



# CATALOG 1500 CATALOG 1500



**OUR COMPANY  
WAS FOUNDED ON  
PROVIDING  
TECHNICIANS  
WITH A BETTER WAY  
TO WORK.  
A CENTURY LATER,  
IT'S STILL WHAT  
DRIVES US.**

Since the day Snap-on created the world's first interchangeable sockets, we've remained committed to the same purpose – putting the world's best-made, most innovative and productive tools into the hands of the technicians who need them. Every innovation, every patent and every milestone over our 100-year history is a product of that relentless dedication to the Makers and the Fixers who keep the world moving. And while others might be content to dwell on past achievements, our focus will always be on seeking the next ones.



**FOR 100  
YEARS NOW,  
WE HAVEN'T  
JUST MADE  
TOOLS.  
WE'VE MADE  
HISTORY.**

Since the first mass-produced automobiles hit the streets, Snap-on® has been introducing ways to help technicians keep them on the road. Innovation after innovation, we've continued to stay a step ahead of other tool manufacturers – something that not only earned us countless patents, but some of the most loyal customers the world has ever seen. And as the catalog you're holding in your hands demonstrates, we're continuing to earn your confidence with the widest range of tools and newest solutions you'll find anywhere. Because if our past century has taught us anything, it's the importance of focusing on our next one.





**TOOL STORAGE** 7-122

**1/4" DRIVE TOOLS** 126-164

**3/8" DRIVE TOOLS** 165-218

**1/2" DRIVE TOOLS** 219-250

**3/4" DRIVE TOOLS** 251-260

**1" 1½" 2½" DRIVE TOOLS** 261-272

**WRENCHES** 273-324

**TORQUE** 325-354

**SCREWDRIVERS** 355-388  
Awls • Hooks • Picks • Prybars

**PLIERS** 389-408

**PUNCHES/CHISELS/HAMMERS** 409-418

**GENERAL HAND TOOLS** 419-500  
Files • Scrapers • Spark Plugs • Threading • Extractors • Pullers • Diesel • Other

**SET BUILDING** 501-516

**POWER TOOLS** 517-598

**TESTING & ELECTRONICS** 602-650  
Specialty Meters • Analyzers • Fuel & Engine Systems

**WELDING** 651-672

**UNDERCAR** 673-712

**BATTERY SERVICE** 713-724

**AIR CONDITIONING** 725-738

**COOLING** 739-750

**SHOP EQUIPMENT** 751-840  
Lighting • Creepers • Measuring • Pick-up Tools • Compressors • Presses

**SHOP CLEANING** 841-850  
Parts Washers • Pressure Washers • Vacuums • Shop Fans

**SAFETY** 851-866

**DIAGNOSTICS** 867-905

**INDEX** 11-136

**NO MATTER  
HOW MANY  
MILESTONES  
WE'VE ACHIEVED,  
OUR  
ACCOMPLISHMENTS  
ARE STILL  
MEASURED BY  
YOURS.**

We wouldn't be where we are today without the loyalty of our customers. And, we're proud to say, many of our customers tell us they wouldn't have gotten where they are without us. That's why, just as we've done for over a hundred years, we'll continue shaping lives with innovative solutions that help technicians work faster, easier and smarter – no matter what the future brings. Because the real purpose of our tools isn't just to help you accomplish every repair in your bay. It's to help you accomplish every goal in your career. Always has been. Always will be.



# THERE ARE NO SHORTCUTS TO MAKING IT TO 100 YEARS.

Creating an exceptional tool requires more consideration than just its engineering and design. It takes observing the work of technicians to develop innovative solutions that address everyday needs. As well as choosing what the tool is made from, where it's made and how to ensure the best method for getting it into the hands that need it. That's why Snap-on has always gone the extra mile to source the most durable materials, invest heavily in manufacturing facilities, and build a strong franchise network that puts customer service above all else. All to make your job easier, and your future brighter.





# TOOL STORAGE



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# THE ONLY TOOL STORAGE AS LEGENDARY AS THE TOOLS IT HOLDS.

There's a reason why Snap-on® Tool Storage is the industry's gold standard. Actually, make that hundreds of reasons. Including invincible construction, unmatched innovation, and almost endless customization and accessory options. Which means your tool storage can grow as your career grows. And no matter what stage you're at or where you work, we have the tool storage that fits your personal needs as well as your personal taste.



**POWERED TOOL STORAGE** Our EPIQ, Masters and Classic Series roll cabs offer a PowerDrawer, including a USB ports, for keeping your tools charged.



**MOBILE STORAGE** Whether it's roll cabs or carts, our tool storage systems roll smoothly and easily wherever you do.



**IMPULSE™ DRAWERS** Flush finish drawers open easier, close smoother and stay closed without drifting open.



**LOCK'N ROLL® DRAWERS** Our proprietary retention system holds drawers securely in place, preventing accidental openings.



**STRUCTURAL CONTINUITY** Our special welding and bonding process for the corner gussets of every roll cab creates greater overall strength.



**DOUBLE WALL CONSTRUCTION** Double walls guard against compromised drawer operation caused by dents and dings.



**HIGH-END PAINT** Our ultra-tough powder coat process generates brilliant finishes in a wide array of colors.



**BUILD YOURS AT [ULTIMATOR.SNAPON.COM](https://ultimator.snapon.com)** Build the roll cab of your dreams by trying different configurations, colors, trims and features. Then print it out and share with your Franchisee.



# TOOL STORAGE AT A GLANCE

## STEEL GAUGE

## FEATURES

| COMPONENT                  | EPIQ  | MASTERS   | CLASSIC   | HERITAGE   |
|----------------------------|---|---|---|--|
| BOTTOM                     | 16<br>(14-Gauge Super-Duty Skid Support System)       | 16<br>(14-Gauge Extra Heavy-Duty Skid Support System) | 16<br>(14-Gauge Heavy-Duty Skid Support System) | 16<br>(14-Gauge Heavy-Duty Skid Support System on 53" Roll Cabs) |
| TOP                        | 16<br>(Super-Duty Stiffeners)                         | 16<br>(Extra Heavy-Duty Stiffeners)                   | 16<br>(Heavy-Duty Stiffeners)                   | 16<br>(Medium-Duty Stiffeners on 53" Roll Cabs)                  |
| BACK                       | 16  | 16  | 16  | 18   |
| SIDE                       | 16  | 16  | 16  | 18   |
| FALSE SIDE PANELS          | 18  | 18  | 18  | 20   |
| DRAWER FRONT               | 18  | 18  | 18  | 20   |
| DRAWER BODY                | 18  | 18  | 18  | 18/20  |
| DRAWER BACK                | 18  | 18  | 18  | 20   |
| STANDING SEAM              | Y   | Y   | Y   | N A  |
| CORNER GUSSETS             | 4   | 4   | 4   | 4 (53"); 2 (40")   |
| SLIDES, LB (BALL BEARING)  | 227   | 227   | 120   | 120  |
| HANDLE                     | Chrome with grips                                     | Chrome with insert                                    | Ergonomic                                       | Ergonomic  |
| DRAWER TRIM                | Dual-function Aluminum                                | Aluminum installed                                    | Aluminum installed                              | Aluminum installed   |
| CASE TRIM                  | Aluminum Wrap installed                               | Aluminum installed                                    | N A   | N A  |
| LOCK                       | Removable Core  | Removable Core  | Removable Core                                  | Removable Core   |
| CASTERS                    | 7" x 2" Super-Duty ISO-Ride+™ 8,000 lb                | 6" x 2" Extra Heavy-Duty ISO-Ride+™ 6,800 lb          | 6" x 2" Monoprene                               | 6" x 2" Monoprene  |
| CASTER/HANDLE MOUNTING     | Weld Nut/Heavy Plate                                  | Weld Nut/Heavy Plate                                  | Weld Nut/Heavy Plate                            | Weld Nut/Plate   |
| TOP MAT                    | Non-directional Rubber                                | Non-directional Rubber                                | Non-directional Rubber                          | Non-directional Rubber   |
| DRAWER LINER               | Nonslip Premium                                       | Nonslip Premium                                       | Nonslip Premium                                 | Nonslip Premium  |
| DRAWER RETENTION           | InPulse™  | Lock'n Roll®  | Lock'n Roll®                                    | Lock'n Roll®   |
| PAINT                      | All Powder Coat Chemical Resistant                    | All Powder Coat Chemical Resistant                    | All Powder Coat Chemical Resistant              | All Powder Coat Chemical Resistant                               |
| COLORS AVAILABLE           | 12 Standard   | 12 Standard   | 8 Standard                                      | 4 Standard   |
| INTEGRATED POWER AVAILABLE | PowerDrawer Roll Cab / PowerDrawer Locker / PowerTop™ | PowerDrawer Roll Cab / PowerDrawer Locker / PowerTop™ | PowerDrawer Roll Cab / PowerTop™                | N A  |
| ECKO REMOTE LOCKING SYSTEM | Y   | N A   | N A   | N A  |



**EPIQ SERIES**




**MASTERS SERIES**



**CLASSIC SERIES**



**HERITAGE SERIES**



AS THE UNDISPUTED KING OF TOOL STORAGE, NOTHING MAKES A STATEMENT LIKE AN EPIQ ROLL CAB. THAT'S BECAUSE NOTHING ELSE IS MADE LIKE AN EPIQ. FROM TOP TO BOTTOM AND SIDE TO SIDE, EVERY INCH OF THESE ROLL CABS IS DESIGNED FOR PREMIUM PERFORMANCE AND ULTIMATE DURABILITY.

## INTEGRATED POWER SOURCES ARE POWERFUL ADVANTAGES.

In addition to unmatched craftsmanship, EPIQ's innovative PowerDrawer provides outlets and USB ports for charging power tools, cell phones, lights and other essentials. The LED PowerTop™ (available with a stainless steel or bedliner work surface) also powers laptops, power tools and more. And the PowerLocker provides power in the locker while freeing up drawer space for larger storage needs. Better organization and efficiency is also provided, thanks to the innovative Speedrawer.

# EPIQ SERIES: QUICK REFERENCE CHART



KEVN682A7PKG



KEVP682A7PWZ

| Roll Cabs           | Specifications                            | KEVN682A                 | KEVP682A                     | KEVN68TA            | KEVP68TA            |           |
|---------------------|---|--------------------------|------------------------------|---------------------|---------------------|-----------|
| Capacity            | Approx Cubic Inches (cm <sup>3</sup> )    | 128,268 (2,101,936)      | 128,539 (2,106,377)          | 129,514 (2,122,354) | 129,514 (2,122,354) |           |
|                     | Approx Square Inches (cm <sup>2</sup> )   | 22,998 (148,374)         | 22,355 (144,226)             | 21,733 (140,213)    | 21,733 (140,213)    |           |
|                     | Load Capacity, lb (kg)                    | 16,000 (7,258)           | 16,000 (7,258)               | 16,000 (7,258)      | 16,000 (7,258)      |           |
| Footprint           | Width, inches (mm)                        | 134 (3,404)              | 131 (3,327)                  | 134 (3,404)         | 134 (3,404)         |           |
|                     | Depth, inches (mm)                        | 30 (762) / 34 (864)      | 30 (762) / 34 (864)<br>(864) | 30 (762) / 34 (864) | 30 (762) / 34 (864) |           |
|                     | Height, inches (mm)                       | 75 (1,905)               | 75 (1,905)                   | 75 (1,905)          | 75 (1,905)          |           |
| Drawers             | Drawer Banks                              | 2                        | 2                            | 2                   | 2                   |           |
|                     | Drawer Count                              | 13 (in roll cab)         | 13                           | 10 (in roll cab)    | 10 (in roll cab)    |           |
|                     | Widest Drawer, inches (mm) [qty]          | 62-1/16 (1,576) [2]      | 62-1/16 (1,576) [2]          | 62-1/16 (1,576) [3] | 62-1/16 (1,576) [3] |           |
|                     | Slides, lb (kg) [ball bearing] (per pair) | 227 (103)                | 227 (103)                    | 227 (103)           | 227 (103)           |           |
|                     | Double Slide (included)                   | Yes (3)                  | Yes (3)                      | Yes (4)             | Yes (4)             |           |
| Extras              | Writing Surface (qty)                     | 1                        | 1                            | 1                   | 1                   |           |
|                     | Third Caster Set Option                   | N/A                      | —                            | N/A                 | N/A                 |           |
|                     | Lockers [qty]                             | 2                        | 2                            | 2                   | 2                   |           |
|                     | Locker Drawers [qty]                      | (8) Total                | (7) Total                    | (8) Total           | (8) Total           |           |
|                     | Locker Shelves [qty]                      | (2) Total                | (2) Total                    | (2) Total           | (2) Total           |           |
|                     | Can Trays [qty]                           | (1) Total                | (1) Total                    | (1) Total           | (1) Total           |           |
| Weight              | Net Weight, lb (kg)                       | 2,373 (1,076)            | 2,373 (1,076)                | 2,373 (1,076)       | 2,373 (1,076)       |           |
|                     | Shipping Weight, lb (kg)                  | 2,373 (1,076)            | 2,373 (1,076)                | 2,373 (1,076)       | 2,373 (1,076)       |           |
| EPIQ Configurations | UL/cUL listed                             | Yes                      | Yes                          | Yes                 | Yes                 |           |
|                     | Roll Cab                                  | 68" Roll Cab             | 68" Roll Cab                 | 68" Roll Cab        | 68" Roll Cab        |           |
|                     | Workcenter                                | 68" Workcenter           | 68" Workcenter               | 68" Workcenter      | 68" Workcenter      |           |
|                     | Left Locker                               | Non-Power Locker         | Power Locker                 | Non-Power Locker    | Power Locker        |           |
|                     | Right Locker                              | Non-Power Locker         | Non-Power Locker             | Non-Power Locker    | Non-Power Locker    |           |
|                     | Included Worksurface                      | Stainless                | KEVN682A1                    | KEVP682A1           | KEVN68TA1           | KEVP68TA1 |
|                     |   | Stainless Power with LED | KEVN682A2                    | KEVP682A2           | KEVN68TA2           | KEVP68TA2 |
|                     |   | Bedliner Power with LED  | KEVN682A3                    | KEVP682A3           | KEVN68TA3           | KEVP68TA3 |
|                     |   | Bedliner                 | KEVN682A7                    | KEVP682A7           | KEVN68TA7           | KEVP68TA7 |
|                     | Wheels & Fenders                          | Chrome                   | KEVN682A                     | KEVP682A1           | KEVN68TA1           | KEVP68TA1 |
|                     |   |                          | KEVN682A2                    | KEVP682A2           | KEVN68TA2           | KEVP68TA2 |
|                     |   | Black                    | KEVN682A3                    | KEVP682A3           | KEVN68TA3           | KEVP68TA3 |
|                     |   |                          | KEVN682A7                    | KEVP682A7           | KEVN68TA7           | KEVP68TA7 |

**ECKO** \*Remote Lock Series



| Colors Available  | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PFX        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)

# EPIQ SERIES: QUICK REFERENCE CHART



KEXP725C0PB0



KEXN603B0PES



KEXP603A0PB0



KEXN725C0PWZ



KEXN724A0PJK



KEXP724A0PCM

| Roll Cabs           | Specifications                                    | KEXR725B*<br>KEXP725C  | KEXE725B*<br>KEXN725C  | KEXE603B*<br>KEXN603B  | KEXN724A   | KEXR603A*<br>KEXP603A  | KEXR724A*<br>KEXP724A  |
|---------------------|---|--|--|--|--|--|--|
| Capacity            | Approx Cubic Inches (cm <sup>3</sup> )            | 93,655<br>(1,534,069)  | 91,627<br>(1,500,850)  | 77,672<br>(1,272,267)  | 94,791<br>(1,553,346)  | 78,789<br>(1,307,507)  | 95,107<br>(1,558,525)  |
|                     | Approx Square Inches (cm <sup>2</sup> )           | 22,247<br>(143,494)  | 25,340<br>(163,443)  | 22,690<br>(146,351)  | 23,249<br>(149,993)  | 19,490<br>(125,742)  | 22,722<br>(146,593)  |
|                     | Load Capacity, lb (kg)                            | 16,000 (7,258)   | 16,000 (7,258)   | 16,000 (7,258)   | 16,000 (7,258)   | 16,000 (7,258)   | 16,000 (7,258)   |
| Footprint           | Width, inches (mm)                                | 144 (3,658)  | 144 (3,658)  | 120 (3,048)  | 144 (3,658)  | 120 (3,048)  | 144 (3,658)  |
|                     | Depth, inches (mm)                                | 30 (762)   | 30 (762)   | 30 (762)   | 30 (762)   | 30 (762)   | 30 (762)   |
|                     | Height, inches (mm)                               | 46-7/8 (1,191)   | 46-7/8 (1,191)   | 46-7/8 (1,191)   | 46-7/8 (1,191)   | 46-7/8 (1,191)   | 46-7/8 (1,191)   |
| Drawers             | Drawer Banks                                      | 5  | 5  | 3  | 4  | 3  | 4  |
|                     | Drawer Count                                      | 26   | 27   | 20   | 23   | 16   | 22   |
|                     | Widest Drawer, inches (mm) [qty]                  | 54 (1,372)<br>[6]  | 54 (1,372)<br>[6]  | 54 (1,372)<br>[11]   | 54-1/16 (1,373)<br>[10]  | 54 (1,372)<br>[10]   | 54-1/2 (1,373)<br>[10]   |
|                     | Slides, lb (kg) [ball bearing] (per pair)         | 227 (103)  | 227 (103)  | 227 (103)  | 227 (103)  | 227 (103)  | 227 (103)  |
|                     | Double Slide (included)                           | Yes (7)  | Yes (7)  | Yes (8)  | Yes (10)   | Yes (9)  | Yes (10)   |
| Extras              | Writing Surface (qty)                             | Yes (1)  | Yes (1)  | Yes (1)  | Yes (1)  | No   | Yes (1)  |
|                     | Third Caster Set Option                           | N/A  | N/A  | N/A  | —  | N/A  | N/A  |
| Weight              | Net Weight, lb (kg)                               | 1,925 (873)  | 1,925 (873)  | 1,970 (893)  | 1,925 (893)  | 1,970 (894)  | 1,661 (753)  |
|                     | Shipping Weight, lb (kg)                          | 1,925 (873)  | 1,925 (873)  | 1,970 (893)  | 1,990 (902)  | 1,990 (903)  | 1,681 (762)  |
| EPIQ Configurations | PowerDrawer Unit                                  | Yes  | No   | No   | No   | Yes  | Yes  |
|                     | Non-directional Rubber Top                        | KEXP725C0  | KEXN725C0  | KEXN603B0  | KEXN724A0  | KEXN603B0  | KEXP725C0  |
|                     | Stainless steel PowerTop™ with LED Light and USBs | Choose combination of 60" and 84" tops. See p.89 for part numbers. | Choose combination of 60" and 84" tops. See p.89 for part numbers. | Choose combination of (2) 60" tops. See p.89 for part numbers. | Choose combination of 60" and 84" tops. See p.89 for part numbers. | Choose combination of (2) 60" tops. See p.89 for part numbers. | Choose combination of 60" and 84" tops. See p.89 for part numbers. |
| Optional Add-ons    | Top Chest   | —  | —  | —  | —  | —  | —  |
|                     | Top Drawer Section                                | KESN843A<br>KESN602A   | KESN843A<br>KESN602A   | KESN602A   | KESN843A<br>KESN602A   | KESN602A   | KESN843A<br>KESN602A   |
|                     | Bulk Side Cabinet                                 | KEBN301BL<br>KEBN301BR   | KEBN301BL<br>KEBN301BR   | KEBN301BL<br>KEBN301BR   | KEBN301BL<br>KEBN301BR   | KEBN301BL<br>KEBN301BR   | KEBN301BL<br>KEBN301BR   |
|                     | Locker  | KELN301CL<br>KELN301CR   | KELN301CL<br>KELN301CR   | KELN301CL<br>KELN301CR   | KELN301CL<br>KELN301CR   | KELN301CL<br>KELN301CR   | KELN301CL<br>KELN301CR   |
|                     | WorkCenter  | KEWN840C<br>KEWN600C   | KEWN840C<br>KEWN600C   | KEWN600C   | KEWN840C<br>KEWN600C   | KEWN600C   | KEWN840C<br>KEWN600C   |
|                     | Power Locker                                      | KELP301B   | KELP301B   | KELP301B   | KELP301B   | KELP301B   | KELP301B   |
|                     | Overhead  | KEHN840B<br>KEHN600B   | KEHN840B<br>KEHN600B   | KEHN680C   | KEHN840B<br>KEHN600B   | KEHN680C   | KEHN840B<br>KEHN600B   |
|                     | Stainless steel Work Surfaces                     | KWSN3012AST  | KWSN3012AST  | KWSN3010AST  | KWSN3012AST  | KWSN3010AST  | KWSN3012AST  |
|                     | Bed liner Steel Work Surface                      | KWSN3012ABL  | KWSN3012ABL  | KWSN3010ABL  | KWSN3012ABL  | KWSN3010ABL  | KWSN3012ABL  |
|                     | Bed liner PowerTop™ with LED Light and USBs       | Choose combination of 60" and 84" tops. See p.90 for part numbers. | Choose combination of 60" and 84" tops. See p.90 for part numbers. | Choose combination of (2) 60" tops. See p.90 for part numbers. | Choose combination of 60" and 84" tops. See p.90 for part numbers. | Choose combination of (2) 60" tops. See p.90 for part numbers. | Choose combination of 60" and 84" tops. See p.90 for part numbers. |
|                     | Hardwood Top                                      | KWSN3012AWT  | KWSN3012AWT  | KWSN3010AWT  | KWSN3012AWT  | KWSN3010AWT  | KWSN3012AWT  |



\*Remote Lock Series

TOOL STORAGE



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# EPIQ SERIES: QUICK REFERENCE CHART



KERN842COPJK



KERP843COPBO



KERP842COPJJ



KERN843COPKS



KETN843BOPCM



KETP843BOPDG

| Roll Cabs           | Specifications                                    | KERE842B*<br>KERN842C  | KERE843B*<br>KERN843C  | KERR843B*<br>KERP843C  | KETE843B*<br>KETN843B  | KERR842B*<br>KERP842C  | KERR682A*<br>KERP682   |
|---------------------|---|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Capacity            | Approx Cubic Inches (cm <sup>3</sup> )            | 55,550 (910,301)       | 53,316 (873,693)       | 53,613 (878,187)       | 54,378 (891,095)       | 55,729 (1,825,675)     | 44,218 (724,603)       |
|                     | Approx Square Inches (cm <sup>2</sup> )           | 13,769 (88,832)        | 13,898 (89,664)        | 13,366 (86,212)        | 12,733 (82,148)        | 13,243 (170,840)       | 11,885 (76,677)        |
|                     | Load Capacity, lb (kg)                            | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          |
| Footprint           | Width, inches (mm)                                | 84 (2,134)             | 84 (2,134)             | 84 (2,134)             | 84 (2,134)             | 84 (2,134)             | 68 (1,727)             |
|                     | Depth, inches (mm)                                | 30 (762)               | 30 (762)               | 30 (762)               | 30 (762)               | 30 (762)               | 30 (762)               |
|                     | Height, inches (mm)                               | 46-7/8 (1,191)         | 46-7/8 (1,191)         | 46-7/8 (1,191)         | 46-7/8 (1,191)         | 46-7/8 (1,191)         | 46-7/8 (1,191)         |
| Drawers             | Drawer Banks                                      | 2                      | 3                      | 3                      | 3                      | 2                      | 2                      |
|                     | Drawer Count                                      | 13                     | 19                     | 18                     | 16                     | 8                      | 12                     |
|                     | Widest Drawer, inches (mm) [qty]                  | 54 (1,372) [7]         | 54 (1,372) [2]         | 54 (1,372) [2]         | 54 (1,372) [3]         | 54 (1,372) [7]         | 62 (1,575) [2]         |
|                     | Slides, lb (kg) [ball bearing] (per pair)         | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              |
|                     | Double Slide (included)                           | Yes (6)                | Yes (4)                | Yes (3)                | Yes (3)                | Yes (5)                | Yes (3)                |
| Extras              | Writing Surface (qty)                             | Yes (1)                | Yes (1)                | Yes (1)                | Yes (1)                | Yes (1)                | Yes (1)                |
|                     | Third Caster Set Option                           | Yes                    | Yes                    | Yes                    | Yes                    | Yes                    | No                     |
| Weight              | Net Weight, lb (kg)                               | 1,165 (528)            | 1,165 (528)            | 1,165 (528)            | 1,165 (528)            | 990 (449)              | 946 (429)              |
|                     | Shipping Weight, lb (kg)                          | 1,195 (542)            | 1,165 (528)            | 1,165 (528)            | 1,195 (542)            | 990 (449)              | 1,006 (456)            |
| EPIQ Configurations | PowerDrawer Unit                                  | No                     | No                     | Yes                    | No                     | Yes                    | Yes                    |
|                     | Non-directional Rubber Top                        | KERN842C0              | KERN843C0              | KERP843C0              | KETN843B0              | KERP842C0              | KERP682A0              |
|                     | Stainless steel PowerTop™ with LED Light and USBs | KERN842C2              | KERN843C2              | KERP843C2              | KETN843B2              | KERP842C2              | KERP682A2              |
| Optional Add-ons    | Top Chest   | KECN842A               | KECN843A               | KECN843A               | KECN843A               | KECN842A               | KECN682A               |
|                     | Top Drawer Section                                | KESN842A               | KESN843A               | KESN843A               | KESN843A               | KESN842A               | KESN682A               |
|                     | Bulk Side Cabinet                                 | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR |
|                     | Locker  | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR |
|                     | WorkCenter  | KEWN840C               | KEWN840C               | KEWN840C               | KEWN840C               | KEWN840C               | KEWN680C               |
|                     | Power Locker                                      | KELP301B               | KELP301B               | KELP301B               | KELP301B               | KELP301B               | KELP301B               |
|                     | Overhead  | KEHN840B               | KEHN840B               | KEHN840B               | KEHN840B               | KEHN840B               | KEHN680C               |
|                     | Stainless steel PowerTop™ with LED Light and USBs | KWSP3084DST            | KWSP3084DST            | KWSP3084DST            | KWSP3084DST            | KWSP3084DST            | KWSP3068CST            |
|                     | Stainless steel Work Surfaces                     | KWSN3084BST            | KWSN3084BST            | KWSN3084BST            | KWSN3084BST            | KWSN3084BST            | KWSN3068BST            |
|                     | Bed liner Steel Work Surface                      | KWSN3084ABL            | KWSN3084ABL            | KWSN3084ABL            | KWSN3084ABL            | KWSN3084ABL            | KWSN3068ABL            |
|                     | Bed liner PowerTop™ with LED Light and USBs       | KWSP3084CBL            | KWSP3084CBL            | KWSP3084CBL            | KWSP3084CBL            | KWSP3084CBL            | KWSP3068CBL            |
|                     | Hardwood Top                                      | KWSN3084AWT            | KWSN3084AWT            | KWSN3084AWT            | KWSN3084AWT            | KWSN3084AWT            | KWSN3068AWT            |

**ECKO** \*Remote Lock Series



| Colors Available  | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PFX        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)



# EPIQ SERIES: QUICK REFERENCE CHART



KETP682A0PB0



KERP682A0PKS



KERN682C0PCM



KETN682B0PDG



KERN602C0PB0



KETN602B0PES

| Roll Cabs                                   | Specifications                                    | KETP682A               | KETR843B*<br>KETP843   | KERE682B*<br>KERN682C  | KETE682B*<br>KETN682B  | KERE602B*<br>KERN602C  | KETE602B*<br>KETN602B  |
|---|---|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Capacity                                    | Approx Cubic Inches (cm <sup>3</sup> )            | 45,512 (745,808)       | 54,630 (895,225)       | 43,922 (719,753)       | 45,147 (739,831)       | 38,000 (622,708)       | 39,119 (641,045)       |
|   | Approx Square Inches (cm <sup>2</sup> )           | 10,521 (67,877)        | 11,357 (73,271)        | 12,412 (80,077)        | 11,046 (71,264)        | 10,650 (68,710)        | 9,490 (61,225)         |
|   | Load Capacity, lb (kg)                            | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          | 8,000 (3,629)          |
| Footprint                                   | Width, inches (mm)                                | 68 (1,727)             | 84 (2,134)             | 68 (1,727)             | 68 (1,727)             | 60 (1,524)             | 60 (1,524)             |
|   | Depth, inches (mm)                                | 30 (762)               | 30 (762)               | 30 (762)               | 30 (762)               | 30 (762)               | 30 (762)               |
|   | Height, inches (mm)                               | 46-7/8 (1,190.6)       | 46-7/8 (1,191)         | 46-7/8 (1,191)         | 46-7/8 (1,191)         | 46-7/8 (1,191)         | 46-7/8 (1,191)         |
| Drawers                                     | Drawer Banks                                      | 2                      | 3                      | 2                      | 2                      | 2                      | 2                      |
|   | Drawer Count                                      | 9                      | 15                     | 13                     | 10                     | 13                     | 10                     |
|   | Widest Drawer, inches (mm) [qty]                  | 62 (1,575) [2]         | 54 (1,372) [3]         | 62 (1,575) [2]         | 62 (1,575) [3]         | 54 (1,372) [2]         | 54 (1,372) (3)         |
|   | Slides, lb (kg) [ball bearing] (per pair)         | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              |
|   | Double Slide (included)                           | Yes (4)                | Yes (3)                | Yes (3)                | Yes (4)                | Yes (3)                | Yes (4)                |
|   | Extras  | Writing Surface (qty)  | —                      | Yes (1)                | Yes (1)                | Yes (1)                | Yes (1)                |
| Weight                                      | Third Caster Set Option                           | No                     | Yes                    | No                     | No                     | No                     | No                     |
|   | Net Weight, lb (kg)                               | 946 (429)              | 1,165 (528)            | 832 (377)              | 832 (377)              | 774 (351)              | 880 (399)              |
| EPIQ Configurations                         | Shipping Weight, lb (kg)                          | —                      | 1195 (542)             | 946 (429)              | 946 (429)              | 880 (399)              | 774 (351)              |
|   | PowerDrawer Unit                                  | Yes                    | Yes                    | No                     | No                     | No                     | No                     |
| Optional Add-ons Available                  | Non-directional Rubber Top                        | KETP682A0              | KETP843B0              | KERN682C0              | KETN682B0              | KERN602C0              | KETN602B0              |
|   | Stainless steel PowerTop™ with LED Light and USBs | KETP682A2              | KETP843B2              | KERN682C2              | KETN682B2              | KERN602C2              | KETN602B2              |
|   | Top Chest   | KECN682A0              | KECN843A               | KECN682A               | KECN682A               | KECN602A               | KECN602A               |
|   | Top Drawer Section                                | KESN682A0              | KESN843A               | KESN682A               | KESN682A               | KESN602A               | KESN602A               |
|   | Bulk Side Cabinet                                 | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR | KEBN301BL<br>KEBN301BR |
|   | Locker  | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR | KELN301CL<br>KELN301CR |
|   | WorkCenter  | KEWN680C0              | KEWN840C               | KEWN680C               | KEWN680C               | KEWN600C               | KEWN600C               |
|   | Power Locker                                      | KELP301BL<br>KELP301BR | KELP301B               | KELP301B               | KELP301B               | KELP301B               | KELP301B               |
|   | Overhead  | KEHN680B0              | KEHN840B               | KEHN680C               | KEHN680C               | KEHN600B               | KEHN600B               |
|   | Stainless steel PowerTop™ with LED Light and USBs | KWSP3068DST            | KWSP3084DST            | KWSP3068DST            | KWSP3068DST            | KWSP3060DST            | KWSP3060DST            |
| Stainless steel Work Surfaces               | KWSN3068BST                                       | KWSN3084BST            | KWSN3068BST            | KWSN3068BST            | KWSN3060BST            | KWSN3060BST            |                        |
| Bed liner Steel Work Surface                | KWSN3068ABL                                       | KWSN3084ABL            | KWSN3068ABL            | KWSN3068ABL            | KWSN3060ABL            | KWSN3060ABL            |                        |
| Bed liner PowerTop™ with LED Light and USBs | KWSN3068CBL                                       | KWSP3084CBL            | KWSP3068CBL            | KWSP3068CBL            | KWSP3060CBL            | KWSP3060CBL            |                        |
| Hardwood Top                                | KWSN3068AWT                                       | KWSN3084AWT            | KWSN3068AWT            | KWSN3068AWT            | KWSN3060AWT            | KWSN3060AWT            |                        |

ECKO \*Remote Lock Series

Images may be shown without actual warning labels.

TOOL STORAGE



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# EPIQ SERIES: ROLL CABS



KEVN68TA7PWZ



KEVN682A7BKG

## KEVN68TA Series EUV

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|
| 129,514 (2,122,354)             | 21,733 (140,213)                 | 2,373 (1,076)       | 16,000 (7,258)         |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |
| <b>Specifications</b>           | 18                               | 134 (3,404)         | 30 (762)/ 34 (864)     | 75 (1,905)          |
| <b>Drawers in Roll Cab</b>      | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 4-7/8 (124)         |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 3-13/16 (97)        |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 2-11/16 (68)        |
|                                 | 1                                | 38-1/16 (967)       | 26-7/8 (683)           | 1-11/16 (43)        |
|                                 | 2                                | 38-1/16 (967)       | 27-15/16 (710)         | 3-15/16 (100)       |
|                                 | 1                                | 38-1/16 (967)       | 27-15/16 (710)         | 6-3/16 (157)        |
|                                 | 1                                | 19-5/8 (498)        | 26-7/8 (683)           | 1-11/16 (43)        |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 3-15/16 (100)       |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 10-5/8 (270)        |
|                                 | <b>Locker Drawers</b>            | 6                   | 24-1/8 (613)           | 26-5/8 (676)        |
| 2                               |                                  | 24-1/8 (613)        | 23-7/8 (594)           | 4 (102)             |
| <b>Locker Shelves</b>           | 2                                | 25-1/2 (648)        | 24 (610)               | Adjust              |
| <b>Can Tray</b>                 | 2                                | 17-7/8 (454)        | 3-3/16 (81)            | 4 (102)             |
| <b>WorkCenter</b>               | <b>Dimensions</b>                | 68 (1,727)          | 30 (762)               | 25-1/2 (648)        |

## KEVN682A Series EUV

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |         |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|---------|
| 128,268 (2,101,936)             | 22,998 (148,374)                 | 2,373 (1,076)       | 16,000 (7,258)         |                     |         |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |         |
| <b>Specifications</b>           | 21                               | 134 (3,404)         | 30 (762)/ 34 (864)     | 75 (1,905)          |         |
| <b>Drawers in Roll Cab</b>      | 3                                | 19-5/8 (498)        | 26-7/8 (683)           | 1-11/16 (43)        |         |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 3-15/16 (100)       |         |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 10-5/8 (270)        |         |
|                                 | 3                                | 38-1/16 (967)       | 26-7/8 (683)           | 1-11/16 (43)        |         |
|                                 | 2                                | 38-1/16 (967)       | 27-15/16 (710)         | 3-15/16 (100)       |         |
|                                 | 1                                | 38-1/16 (967)       | 27-15/16 (710)         | 6-3/16 (157)        |         |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 2-11/16 (68)        |         |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 4-7/8 (124)         |         |
|                                 | <b>Locker Drawers</b>            | 6                   | 24-1/8 (613)           | 26-5/8 (676)        | 4 (102) |
|                                 |                                  | 2                   | 24-1/8 (613)           | 23-7/8 (594)        | 4 (102) |
| <b>Locker Shelves</b>           | 2                                | 25-1/2 (648)        | 24 (610)               | Adjust              |         |
| <b>Can Tray</b>                 | 2                                | 17-7/8 (454)        | 3-3/16 (81)            | 4 (102)             |         |
| <b>WorkCenter</b>               | <b>Dimensions</b>                | 68 (1,727)          | 30 (762)               | 25-1/2 (648)        |         |

## Optional Add-ons

|                                 |           |
|---------------------------------|-----------|
| 68" Workcenter Overhead Cabinet | KEHN680CO |
| 30" Locker Overhead Cabinet     | KEHN300AO |

## Optional Add-ons

|                                 |           |
|---------------------------------|-----------|
| 68" Workcenter Overhead Cabinet | KEHN680CO |
| 30" Locker Overhead Cabinet     | KEHN300AO |

### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PFX        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)



KEVP68TA7PWZ



KEVP682A7PWZ

KEVP68TA Series EUV

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|
| 129,514 (2,122,354)             | 21,090 (136,065)                 | 2,373 (1,076)       | 16,000 (7,258)         |                     |
| Specifications                  | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |
|                                 | 17                               | 134 (3,404)         | 30 (762)/ 34 (864)     | 75 (1,905)          |
| Drawers in Roll Cab             | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 4-7/8 (124)         |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 3-13/16 (97)        |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 2-11/16 (68)        |
|                                 | 1                                | 38-1/16 (967)       | 26-7/8 (683)           | 1-11/16 (43)        |
|                                 | 2                                | 38-1/16 (967)       | 27-15/16 (710)         | 3-15/16 (100)       |
|                                 | 1                                | 38-1/16 (967)       | 27-15/16 (710)         | 6-3/16 (157)        |
|                                 | 1                                | 19-5/8 (498)        | 26-7/8 (683)           | 1-11/16 (43)        |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 3-15/16 (100)       |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 10-5/8 (270)        |
|                                 | Locker Drawers                   | 4                   | 24-1/8 (613)           | 26-5/8 (676)        |
| 1                               |                                  | 24-1/8 (613)        | 26-5/8 (676)           | 8 (203)             |
| 2                               |                                  | 24-1/8 (613)        | 23-7/8 (594)           | 4 (102)             |
| Locker Shelves                  | 2                                | 25-1/2 (648)        | 24 (610)               | Adjust              |
| Can Tray                        | 2                                | 17-7/8 (454)        | 3-3/16 (81)            | 4 (102)             |
| WorkCenter Dimensions           |                                  | 68 (1,727)          | 30 (762)               | 25-1/2 (648)        |

Optional Add-ons

|                                 |           |
|---------------------------------|-----------|
| 68" Workcenter Overhead Cabinet | KEHN680CO |
| 30" Locker Overhead Cabinet     | KEHN300AO |

KEVP682A Series EUV

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |         |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|---------|
| 128,539 (2,106,377)             | 22,355 (144,226)                 | 2,373 (1,076)       | 16,000 (7,258)         |                     |         |
| Specifications                  | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |         |
|                                 | 20                               | 134 (3,404)         | 30 (762)/ 34 (864)     | 75 (1,905)          |         |
| Drawers in Roll Cab             | 3                                | 19-5/8 (498)        | 26-7/8 (683)           | 1-11/16 (43)        |         |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 3-15/16 (100)       |         |
|                                 | 1                                | 19-5/8 (498)        | 27-15/16 (710)         | 10-5/8 (270)        |         |
|                                 | 3                                | 38-1/16 (967)       | 26-7/8 (683)           | 1-11/16 (43)        |         |
|                                 | 2                                | 38-1/16 (967)       | 27-15/16 (710)         | 3-15/16 (100)       |         |
|                                 | 1                                | 38-1/16 (967)       | 27-15/16 (710)         | 6-3/16 (157)        |         |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 2-11/16 (68)        |         |
|                                 | 1                                | 62-1/16 (1,576)     | 27-15/16 (710)         | 4-7/8 (124)         |         |
|                                 | Locker Drawers                   | 4                   | 24-1/8 (613)           | 26-5/8 (676)        | 4 (102) |
|                                 |                                  | 1                   | 24-1/8 (613)           | 26-5/8 (676)        | 8 (203) |
| 2                               |                                  | 24-1/8 (613)        | 23-7/8 (594)           | 4 (102)             |         |
| Locker Shelves                  | 2                                | 25-1/2 (648)        | 24 (610)               | Adjustable          |         |
| Can Tray                        | 2                                | 17-7/8 (454)        | 3-3/16 (81)            | 4 (102)             |         |
| WorkCenter Dimensions           |                                  | 68 (1,727)          | 30 (762)               | 25-1/2 (648)        |         |

Optional Add-ons

|                                |           |
|--------------------------------|-----------|
| 68 Workcenter Overhead Cabinet | KEHN680CO |
| 30" Locker Overhead Cabinet    | KEHN300AO |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## EPIQ SERIES: ROLL CABS



**KEXN725C0PWZ**  
144" 27-Drawer Five Bank EPIQ Series Roll Cab



**KEXN724A0PJK**  
144" 23-Drawer Four Bank EPIQ Series Roll Cab with SpeedDrawer



**KEXP725C0PBO**  
144" 26-Drawer Five Bank EPIQ Series Roll Cab with PowerDrawer



**KEXP724A0PCM**  
144" 22-Drawer Four Bank EPIQ Series Roll Cab with PowerDrawer and SpeedDrawer

### EPIQ Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height   |     | KEXE725B*<br>KEXN725C | KEXR725B*<br>KEXP725C | KEXN724A  | KEXR724A*<br>KEXP724A |
|---------------------------|-------|----------|-----|----------|-----|-----------------------|-----------------------|-----------|-----------------------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers               | Drawers               | Drawers   | Drawers               |
| 19-5/8                    | 498   | 26-7/8   | 683 | 1-11/16  | 43  | 4                     | 3                     | 3         | 2                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-15/16  | 100 | 5                     | 5                     | 3         | 3                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 6-3/16   | 157 | 2                     | 2                     | 1         | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 10-5/8   | 270 | 2                     | 1                     | 2         | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 12-13/16 | 325 | —                     | 1                     | —         | 1                     |
| 30-1/16                   | 764   | 26-7/8   | 683 | 1-11/16  | 43  | 2                     | 2                     | 1         | 1                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 3-15/16  | 100 | 4                     | 4                     | 2         | 2                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 6-3/16   | 157 | 2                     | 2                     | 1         | 1                     |
| 38-1/16                   | 967   | 26-7/8   | 683 | 1-11/16  | 43  | —                     | —                     | —         | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 3-15/16  | 100 | —                     | —                     | —         | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 6-3/16   | 157 | —                     | —                     | —         | —                     |
| 54-1/16                   | 1,373 | 26-7/8   | 683 | 1-11/16  | 43  | —                     | —                     | —         | 2                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 1-11/16  | 43  | —                     | —                     | 1         | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 2-11/16  | 68  | 2                     | 2                     | 2         | 4                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 3-13/16  | 97  | 2                     | 2                     | 4         | 2                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 4-7/8    | 124 | 2                     | 2                     | 2         | —                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 6        | 152 | —                     | —                     | —         | —                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 6-3/16   | 157 | —                     | —                     | 1         | 1                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 2-11/16  | 68  | —                     | —                     | —         | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 3-13/16  | 97  | —                     | —                     | —         | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 4-7/8    | 124 | —                     | —                     | —         | —                     |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>27</b>             | <b>26</b>             | <b>23</b> | <b>22</b>             |

**ECKO** \*Remote Lock Series

Tools shown in tool storage not included.

#### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)

# EPIQ SERIES: ROLL CABS

TOOL STORAGE



**KEXN603B0PES**  
120" 20-Drawer Triple Bank EPIQ Series Roll Cab



Includes PowerDrawer with (5) Outlets and (2) USBs (tools not included)



Includes 2" Speedrawer with organizer



**KEXP603A0PBO**  
120" 16-Drawer Three Bank EPIQ Series Roll Cab with PowerDrawer and Speedrawer

## EPIQ Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height   |     | KEXE603B*<br>KEXN603B | KESR603A*<br>KEXP603A |
|---------------------------|-------|----------|-----|----------|-----|-----------------------|-----------------------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers               | Drawers               |
| 19-5/8                    | 498   | 26-7/8   | 683 | 1-11/16  | 43  | 3                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-15/16  | 100 | —                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 6-3/16   | 157 | —                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 10-5/8   | 270 | 1                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 12-13/16 | 325 | —                     | 1                     |
| 30-1/16                   | 764   | 26-7/8   | 683 | 1-11/16  | 43  | 3                     | 1                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 3-15/16  | 100 | 1                     | 2                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 6-3/16   | 157 | 1                     | 1                     |
| 38-1/16                   | 967   | 26-7/8   | 683 | 1-11/16  | 43  | —                     | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 3-15/16  | 100 | —                     | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 6-3/16   | 157 | —                     | —                     |
| 54-1/16                   | 1,373 | 26-7/8   | 683 | 1-11/16  | 43  | 3                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 2-11/16  | 68  | 2                     | 2                     |
| 254-1/16                  | 1,373 | 27-15/16 | 710 | 3-13/16  | 97  | 3                     | 4                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 4-7/8    | 124 | 2                     | 2                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 6        | 152 | 1                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 2-11/16  | 68  | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 3-13/16  | 97  | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 4-7/8    | 124 | —                     | —                     |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>20</b>             | <b>16</b>             |

**ECKO** \*Remote Lock Series

Tools shown in tool storage not included.



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## EPIQ SERIES: ROLL CABS



**KERN842COPJK**  
84" 13-Drawer Double Bank EPIQ Series Roll Cab



**KERP842COPJJ**  
84" 12-Drawer Double Bank EPIQ Series Roll Cab with PowerDrawer

### EPIQ Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height   |     | KERE842B*<br>KERN842C | KERR842B*<br>KERP842C |
|---------------------------|-------|----------|-----|----------|-----|-----------------------|-----------------------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers               | Drawers               |
| 19-5/8                    | 498   | 26-7/8   | 683 | 1-11/16  | 43  | 2                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 1-11/16  | 43  | —                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-15/16  | 100 | 2                     | 2                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 6-5/32   | 156 | —                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 6-3/16   | 157 | 1                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 10-5/8   | 270 | 1                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 12-13/16 | 325 | —                     | 1                     |
| 30-1/16                   | 764   | 26-7/8   | 683 | 1-11/16  | 43  | —                     | —                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 3-15/16  | 100 | —                     | —                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 6-3/16   | 157 | —                     | —                     |
| 54-1/16                   | 1,373 | 26-7/8   | 683 | 1-11/16  | 43  | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 2-11/16  | 68  | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 3-11/16  | 97  | —                     | 3                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 3-13/16  | 97  | 3                     | —                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 4-7/8    | 124 | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 6        | 152 | 1                     | 1                     |
| 62-1/16                   | 1,576 | 26-7/8   | 683 | 1-11/16  | 43  | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 2-11/16  | 68  | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 3-11/16  | 97  | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 4-7/8    | 124 | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 6        | 152 | —                     | —                     |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>13</b>             | <b>12</b>             |

**ECKO** \*Remote Lock Series

Tools shown in tool storage not included.

#### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)

## EPIQ SERIES: ROLL CABS



**KERN843COPKS**  
84" 19-Drawer Triple Bank EPIQ Series Roll Cab



Includes PowerDrawer  
with (5) staggered outlets  
and (2) USBs



**KERP843COPBO**  
84" 18-Drawer Triple Bank EPIQ Series Roll Cab  
with PowerDrawer

### EPIQ Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height   |     | KERE843B*<br>KERN843C | KERR843B*<br>KERP843C |
|---------------------------|-------|----------|-----|----------|-----|-----------------------|-----------------------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers               | Drawers               |
| 19-5/8                    | 498   | 26-7/8   | 683 | 1-11/16  | 43  | 5                     | 4                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-5/16   | 100 | —                     | 3                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-15/16  | 100 | 3                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 6-5/32   | 156 | —                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 6-3/16   | 157 | 1                     | —                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 10-5/8   | 270 | 2                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 12-13/16 | 325 | —                     | 1                     |
| 30-1/16                   | 764   | 26-7/8   | 683 | 1-11/16  | 43  | 3                     | 3                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 3-15/16  | 100 | 2                     | 2                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 6-3/16   | 157 | 1                     | 1                     |
| 38-1/16                   | 967   | 26-7/8   | 683 | 1-11/16  | 43  | —                     | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 3-15/16  | 100 | —                     | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 6-3/16   | 157 | —                     | —                     |
| 54-1/16                   | 1,373 | 26-7/8   | 683 | 1-11/16  | 43  | —                     | —                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 2-11/16  | 68  | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 3-13/16  | 97  | —                     | —                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 4-7/8    | 124 | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 6        | 152 | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 2-11/16  | 68  | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 4-7/8    | 124 | —                     | —                     |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>19</b>             | <b>18</b>             |

**ECKO** \*Remote Lock Series

Tools shown in tool storage not included.



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# EPIQ SERIES: ROLL CABS



**KETN843B0PCM**  
84" 16-Drawer Triple Bank EPIQ Series Roll Cab



**KETP843B0PJH**  
84" 15-Drawer Triple Bank EPIQ Series Roll Cab with PowerDrawer

## EPIQ Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height   |     | KETE843B*<br>KETN843B | KETR843B*<br>KETP843B |
|---------------------------|-------|----------|-----|----------|-----|-----------------------|-----------------------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers               | Drawers               |
| 19-5/8                    | 498   | 26-7/8   | 683 | 1-11/16  | 43  | 3                     | 2                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-15/16  | 100 | 3                     | 3                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 6-3/16   | 157 | 1                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 10-5/8   | 270 | 2                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 12-13/16 | 325 | —                     | 1                     |
| 30-1/16                   | 764   | 26-7/8   | 683 | 1-11/16  | 43  | 1                     | 1                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 3-15/16  | 100 | 2                     | 2                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 6-3/16   | 157 | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 2-11/16  | 68  | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 3-3/16   | 81  | —                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 3-13/16  | 97  | 1                     | —                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 4-7/8    | 124 | 1                     | 1                     |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>16</b>             | <b>15</b>             |

**ECKO** \*Remote Lock Series

### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.





**KERN682C0PCM**  
68" 13-Drawer Double Bank EPIQ Series Roll Cab



**KETP682A0PBO**  
68" 9-Drawer Double Bank EPIQ Series Roll Cab with PowerDrawer and SpeedDrawer



**KERP682A0PKS**  
68" 12-Drawer Double Bank EPIQ Series Roll Cab with PowerDrawer and SpeedDrawer



**KETN682B0PDG**  
68" 10-Drawer Double Bank EPIQ Series Roll Cab

**EPIQ Series Roll Cab Drawer Sizes**

| Width                     |       | Depth    |     | Height   |     | KERE682B*<br>KERN682C | KERR682A*<br>KERP682A | KETP682A | KETE682B*<br>KETN682B |
|---------------------------|-------|----------|-----|----------|-----|-----------------------|-----------------------|----------|-----------------------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers               | Drawers               | Drawers  | Drawers               |
| 19-5/8                    | 498   | 26-7/8   | 683 | 1-11/16  | 43  | 3                     | 2                     | —        | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-15/16  | 100 | 1                     | 1                     | 1        | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 10-5/8   | 270 | 1                     | —                     | —        | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 12-13/16 | 325 | —                     | 1                     | 1        | —                     |
| 38-1/16                   | 967   | 26-7/8   | 683 | 1-11/16  | 43  | 3                     | 3                     | 1        | 1                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 3-15/16  | 100 | 2                     | 2                     | 2        | 2                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 6-3/16   | 157 | 1                     | 1                     | 1        | 1                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 2-11/16  | 68  | 1                     | 1                     | 1        | 1                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 3-13/16  | 97  | —                     | —                     | 1        | 1                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 4-7/8    | 124 | 1                     | 1                     | 1        | 1                     |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>13</b>             | <b>12</b>             | <b>9</b> | <b>10</b>             |

**ECKO** \*Remote Lock Series



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# EPIQ SERIES: ROLL CABS



**KERN682COPBO**  
68" 13-Drawer Double Bank EPIQ Series Roll Cab



**KETN602BOPES**  
60" 10-Drawer Double Bank EPIQ Series Roll Cab



**KERN602COPBO**  
60" 13-Drawer Double Bank EPIQ Series Roll Cab

## EPIQ Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height  |     | KERE682B*<br>KERN682C | KERE602B*<br>KERN602C | KETE602B*<br>KETN602B |
|---------------------------|-------|----------|-----|---------|-----|-----------------------|-----------------------|-----------------------|
| inches                    | mm    | inches   | mm  | inches  | mm  | Drawers               | Drawers               | Drawers               |
| 19-5/8                    | 498   | 26-7/8   | 683 | 1-11/16 | 43  | 3                     | 3                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 3-15/16 | 100 | 1                     | 1                     | 1                     |
| 19-5/8                    | 498   | 27-15/16 | 710 | 10-5/8  | 270 | 1                     | 1                     | 1                     |
| 30-1/16                   | 764   | 26-7/8   | 683 | 1-11/16 | 43  | —                     | 3                     | 1                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 3-15/16 | 100 | —                     | 2                     | 2                     |
| 30-1/16                   | 764   | 27-15/16 | 710 | 6-3/16  | 157 | —                     | 1                     | 1                     |
| 38-1/16                   | 967   | 26-7/8   | 683 | 1-11/16 | 43  | 3                     | —                     | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 3-15/16 | 100 | 2                     | —                     | —                     |
| 38-1/16                   | 967   | 27-15/16 | 710 | 6-3/16  | 157 | 1                     | —                     | —                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 2-11/16 | 68  | —                     | 1                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 3-13/16 | 97  | —                     | —                     | 1                     |
| 54-1/16                   | 1,373 | 27-15/16 | 710 | 4-7/8   | 124 | —                     | 1                     | 1                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 2-11/16 | 68  | 1                     | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 3-13/16 | 97  | —                     | —                     | —                     |
| 62-1/16                   | 1,576 | 27-15/16 | 710 | 4-7/8   | 124 | 1                     | —                     | —                     |
| <b>Total Drawer Count</b> |       |          |     |         |     | <b>13</b>             | <b>13</b>             | <b>10</b>             |

**ECKO** \*Remote Lock Series

### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

# EPIQ SERIES: TOP CHESTS



**KECN602A0PB0**



**KECN682A0PC**

## KECN602A0 Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 28,330 (464,245)                | 8,400 (54,193)                   | 525 (238)           | 605 (274)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 10                               | 60 (1,524)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 2                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 3                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 30-1/16 (764)       | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 3                                | 30-1/16 (764)       | 27-15/16 (710)           | 3-15/16 (100)       |
| <b>Top Compartment</b>          | 1                                | 54 (1,372)          | 27-15/16 (710)           | 4-7/8 (124)         |

Remote lock not available.

## KECN682A0 Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 32,741 (536,528)                | 9,721 (62,716)                   | 600 (272)           | 685 (311)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 10                               | 68 (1,727)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 2                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 3                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 30-1/16 (764)       | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 3                                | 30-1/16 (764)       | 27-15/16 (710)           | 3-15/16 (100)       |
| <b>Top Compartment</b>          | 1                                | 62 (1,575)          | 27-15/16 (710)           | 4-7/8 (124)         |

Remote lock not available.



**KECN842A0PCM**



**KECN843A0PJJ**

## KECN842A0 Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 40,996 (671,804)                | 12,362 (79,754)                  | 750 (340)           | 850 (386)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 10                               | 84 (2,134)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 2                                | 54-1/16 (1,373)     | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 3                                | 54-1/16 (1,373)     | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 3                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
| <b>Top Compartment</b>          | 1                                | 80 (2,032)          | 27-15/16 (710)           | 4-7/8 (124)         |

Remote lock not available.

## KECN843A0 Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 39,722 (650,926)                | 11,760 (75,870)                  | 750 (340)           | 850 (386)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 15                               | 84 (2,134)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 4                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 6                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 30-1/16 (764)       | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 3                                | 30-1/16 (764)       | 27-15/16 (710)           | 3-15/16 (100)       |
| <b>Top Compartment</b>          | 1                                | 80 (2,032)          | 27-15/16 (710)           | 4-7/8 (124)         |

Remote lock not available.



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# EPIQ SERIES: DRAWER SECTIONS



**KESN602A0PES**



**KESN682A0PJK**

## KESE602A0\*/KESN602A0 Series Drawer Sections

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 26,370 (431,941)                | 8,223 (53,038)                   | 525 (238)           | 605 (274)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 12                               | 60 (1,524)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 2                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 4                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 30-1/16 (764)       | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 4                                | 30-1/16 (764)       | 27-15/16 (710)           | 3-15/16 (100)       |

**ECKO** \*Remote Lock Series

## KESE682A0\*/KESN682A0 Series Drawer Sections

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 30,616 (501,490)                | 9,547 (61,578)                   | 600 (272)           | 685 (311)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 12                               | 68 (1,727)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 2                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 4                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 38-1/16 (967)       | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 4                                | 38-1/16 (967)       | 27-15/16 (710)           | 3-15/16 (100)       |

**ECKO** \*Remote Lock Series



**KESN842A0PU**



**KESN843A0PDG**

## KESE842A0\*/KESN842A0 Series Drawer Sections

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 38,352 (628,206)                | 12,195 (78,658)                  | 750 (340)           | 850 (386)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 12                               | 84 (2,032)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 2                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 4                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 54-1/16 (1,373)     | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 4                                | 54-1/16 (1,373)     | 27-15/16 (710)           | 3-15/16 (100)       |

**ECKO** \*Remote Lock Series

## KESE843A0\*/KESN843A0 Series Drawer Sections

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 36,785 (602,538)                | 11,471 (73,988)                  | 750 (340)           | 850 (386)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 18                               | 84 (2,032)          | 30 (762)                 | 27-1/2 (699)        |
| <b>Drawers</b>                  | 4                                | 19-5/8 (498)        | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 8                                | 19-5/8 (498)        | 27-15/16 (710)           | 3-15/16 (100)       |
|                                 | 2                                | 30-1/16 (764)       | 26-7/8 (683)             | 1-11/16 (43)        |
|                                 | 4                                | 30-1/16 (764)       | 27-15/16 (710)           | 3-15/16 (100)       |

**ECKO** \*Remote Lock Series

**Colors Available**



|                          |     |             |            |              |                 |               |               |               |            |                 |       |            |
|--------------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
|                          | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
| <b>Bright Trim</b>       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| <b>Black Trim</b>        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| <b>Titanium Trim</b>     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| <b>Blue Trim</b>         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| <b>Red Trim</b>          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| <b>Orange Valor Trim</b> | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| <b>Atomic Green Trim</b> | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

## EPIQ SERIES: WORKCENTERS

**EPIQ Series WorkCenters** – Require stainless steel, bed liner or butcher block work surface to use.

|                                       | Overall            |                    |                     | Inside             |                    |                     | Square Inches (cm <sup>2</sup> ) | Cubic Inches (cm <sup>3</sup> ) | Weight Net/Ship, lb (kg) |
|---------------------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------------------|---------------------------------|--------------------------|
|                                       | Width, inches (mm) | Depth, inches (mm) | Height, inches (mm) | Width, inches (mm) | Depth, inches (mm) | Height, inches (mm) |                                  |                                 |                          |
| <b>KEWE840A0*</b><br><b>KEWN840CO</b> | 84<br>(2,134)      | 30<br>(762)        | 25-1/2<br>(648)     | 80-9/16<br>(2,046) | 26-5/8<br>(676)    | 25<br>(635)         | 5,130<br>(33,090)                | 38,924<br>(657,575)             | 355 (161)<br>410 (186)   |
| <b>KEWE760A0*</b><br><b>KEWN760CO</b> | 76<br>(1,930)      | 30<br>(762)        | 25-1/2<br>(648)     | 72-9/16<br>(1,843) | 26-5/8<br>(676)    | 25<br>(635)         | 4,717<br>(30,424)                | 35,060<br>(574,283)             | 325 (147)<br>375 (170)   |
| <b>KEWE680A0*</b><br><b>KEWN680CO</b> | 68<br>(1,727)      | 30<br>(762)        | 25-1/2<br>(648)     | 64-9/16<br>(1,640) | 26-5/8<br>(676)    | 25<br>(635)         | 4,303<br>(27,757)                | 31,196<br>(510,991)             | 300 (136)<br>345 (156)   |
| <b>KEWE600A0*</b><br><b>KEWN600CO</b> | 60<br>(1,524)      | 30<br>(762)        | 25-1/2<br>(648)     | 56-9/16<br>(1,437) | 26-5/8<br>(676)    | 25<br>(635)         | 3,890<br>(25,091)                | 27,332<br>(447,698)             | 275 (125)<br>315 (143)   |

**ECKO** \*Remote Lock Series



**KEWN840COPB0**

## EPIQ SERIES: OVERHEAD CABINETS

### Bulk Overhead Cabinets

|                                       | Overall            |                    |                     | Inside             |                    |                     | Square Inches (cm <sup>2</sup> ) | Cubic Inches (cm <sup>3</sup> ) | Weight Net/Ship, lb (kg) |
|---------------------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------------------|---------------------------------|--------------------------|
|                                       | Width, inches (mm) | Depth, inches (mm) | Height, inches (mm) | Width, inches (mm) | Depth, inches (mm) | Height, inches (mm) |                                  |                                 |                          |
| <b>KEHE840A0*</b><br><b>KEHN840BO</b> | 84<br>(2,134)      | 30<br>(762)        | 20-7/8<br>(530)     | 80-1/4<br>(2,038)  | 28-3/16<br>(716)   | 13-5/8<br>(346)     | 2,263<br>(14,595)                | 30,888<br>(505,945)             | 320 (145)<br>368 (167)   |
| <b>KEHE760A0*</b><br><b>KEHN760BO</b> | 76<br>(1,930)      | 30<br>(762)        | 20-7/8<br>(530)     | 72-1/4<br>(1,835)  | 28-3/16<br>(716)   | 13-5/8<br>(346)     | 2,037<br>(13,141)                | 27,811<br>(455,539)             | 300 (136)<br>348 (158)   |
| <b>KEHE680A0*</b><br><b>KEHN680CO</b> | 68<br>(1,727)      | 30<br>(762)        | 20-7/8<br>(530)     | 64-1/4<br>(1,632)  | 28-3/16<br>(716)   | 13-5/8<br>(346)     | 1,812<br>(11,687)                | 24,733<br>(405,134)             | 275 (125)<br>318 (144)   |
| <b>KEHE600A0*</b><br><b>KEHN600BO</b> | 60<br>(1,524)      | 30<br>(762)        | 20-7/8<br>(530)     | 56-1/4<br>(1,429)  | 28-3/16<br>(716)   | 13-5/8<br>(346)     | 1,587<br>(10,233)                | 21,656<br>(354,728)             | 260 (118)<br>298 (135)   |
| <b>KEHE300A0*</b><br><b>KEHN300AO</b> | 30<br>(762)        | 30<br>(762)        | 20-7/8<br>(530)     | 26-5/8<br>(660)    | 28-3/16<br>(716)   | 13-5/8<br>(346)     | 733-45/64<br>(4,733)             | 13,010<br>(213,195)             | 130 (59)<br>168 (76)     |

**ECKO** \*Remote Lock Series



**KEHN300AOPB0**

## EPIQ SERIES: LOCKERS

### KELN301C Side Locker Cabinet/KELE301B\* Remote Lock

Require attachment to an EPIQ Roll Cab or side cabinet.  
Cannot be used as a standalone unit.

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Load Capacity, lb (kg) | Net Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|------------------------|---------------------|---------------------|
| 32,835 (537,837)                | 4,310 (27,800)                   | 4,000 (1,814)          | 467 (212)           |                     |
|                                 | Drawers                          | Width, inches (mm)     | Depth, inches (mm)  | Height, inches (mm) |
| <b>Specifications</b>           | 6/1                              | 30 (762)               | 30 (762)            | 74 (1,880)          |
| <b>Pullout Bin</b>              | 2                                | 24-1/8 (613)           | 23-3/8 (594)        | 4 (102)             |
| <b>Pullout Bin</b>              | 4                                | 24-1/8 (613)           | 26-5/8 (676)        | 4 (102)             |
| <b>Stationary Shelf</b>         | 1                                | 25-1/2 (648)           | 24 (610)            | —                   |
| <b>Can Racks</b>                | 2                                | 17-7/8 (454)           | 3-3/16 (81)         | 4 (102)             |

**ECKO** \*Remote Lock Series

**KELN301CL** – Left-side locker

**KELN301CR** – Right-side locker

**KELE301BL** – Remote lock left-side locker

**KELE301BR** – Remote lock right-side locker



**KELN301CLPB0**



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## EPIQ SERIES: LOCKERS



**KELP301BRPBO**

(power tools and chargers not included)

### KELP301B Power Locker/KELR301B\* Remote Lock

Require attachment to an EPIQ Roll Cab or side cabinet. Cannot be used as a standalone unit.

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Load Capacity, lb (kg) | Net Weight, lb (kg) |
|---------------------------------|----------------------------------|------------------------|---------------------|
| 32,835 (537,837)                | 4,310 (27,800)                   | 4,000 (1,814)          | 467 (212)           |
|                                 | Drawers                          | Width, inches (mm)     | Depth, inches (mm)  |
| Specifications                  | 6/1                              | 30 (762)               | 30 (762)            |
| Pullout Bin                     | 1                                | 24-1/8 (613)           | 23-3/8 (594)        |
| Pullout Bin                     | 4                                | 24-1/8 (613)           | 26-5/8 (676)        |
| Stationary Shelf                | 1                                | 25-1/2 (648)           | 24 (610)            |

**ECKO** \*Remote Lock Series

- KELP301BL – Left-side locker**
- KELP301BR – Right-side locker**
- KELR301BL – Remote lock left-side locker**
- KELR301BR – Remote lock right-side locker**

## EPIQ SERIES: END CABINETS



**KEBN301BRPBO**

### KEBN301B EPIQ Series Bulk End Cabinet

Require attachment to an EPIQ Roll Cab or side cabinet. Cannot be used as a standalone unit.

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Load Capacity, lb (kg) | Weight Net/Ship, lb (kg) |
|---------------------------------|----------------------------------|------------------------|--------------------------|
| 17,260 (282,719)                | 2,461 (15,873)                   | 4,000 (1,814)          | 390 (177)<br>440 (200)   |
|                                 | Drawers                          | Width, inches (mm)     | Depth, inches (mm)       |
| Specifications                  | 3/1                              | 30 (762)               | 30 (762)                 |
| Pullout Bin                     | 1                                | 24-1/8 (613)           | 23-3/8 (594)             |
| Pullout Bin                     | 2                                | 24-1/8 (613)           | 26-5/8 (676)             |
| Stationary Shelf                | 1                                | 25-1/2 (648)           | 24 (610)                 |
| Can Racks                       | 2                                | 17-7/8 (454)           | 3-3/16 (81)              |

Remote lock not available.

- KEBN301BL – Left-side bulk end cabinet**
- KEBN301BR – Right-side bulk end cabinet**
- ECKO KEBE301AL – ECKO lock left-side power bulk end cabinet**
- ECKO KEBE301AR – ECKO lock right-side power bulk end cabinet**



**KEBP301ALPBO**

(power tools and phone shown not included)

### KEBP301 EPIQ Series Power Bulk End Cabinets

Require attachment to an EPIQ Roll Cab or side cabinet. Cannot be used as a standalone unit..

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Load Capacity, lb (kg) | Weight Net/Ship, lb (kg) |
|---------------------------------|----------------------------------|------------------------|--------------------------|
| 18,150 (297,425)                | 2,459 (15,864)                   | 4,000 (1,814)          | 390 (177)<br>450 (204)   |
|                                 | Drawers                          | Width, inches (mm)     | Depth, inches (mm)       |
| Specifications                  | 3                                | 30 (762)               | 30 (762)                 |
| PowerDrawer                     | 1                                | 24-1/8 (613)           | 26-5/8 (676)             |
| Pullout Bin                     | 4                                | 24-1/8 (613)           | 26-5/8 (676)             |
| Stationary Shelf                | —                                | —                      | —                        |
| Can Racks                       | —                                | —                      | —                        |

Remote lock not available.

- KEBP301AL – Left-side**
- KEBP301AR – Right-side**

#### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PEJ             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All EPIQ Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

# MASTERS

OUR LEGENDARY QUALITY IS EVIDENT THROUGHOUT EVERY MASTERS SERIES ROLL CAB, FROM THE BALL BEARING DRAWER SLIDES TO THE CHEMICAL RESISTANT POWDER COAT PAINT. AND ENDLESS CONFIGURATIONS, ORGANIZATION OPTIONS AND ADD-ONS MEANS IT CAN EVOLVE AS YOUR CAREER AND TOOL COLLECTION DO TOO.

## PERFECT FOR A MASTER TECH. AND THOSE WHO ASPIRE TO BE ONE.

Features like heavy-duty 6" ISO-Ride+™ casters, extra-wide drawers, high quality locking components, SpeedDrawer and the PowerDrawer with USB ports option make a Masters Series roll cab the ideal choice for performance, peace of mind and maximum productivity.

# MASTERS SERIES: QUICK REFERENCE CHART



KRL1032FPBO



KRL1033DPCM



KRL1023DPC



KTL1023APB0



KRL7023DPJJ

| Roll Cabs        | Specifications                            | KRL1032F               | KRL1033D               | KRL1023D               | KTL1023A               | KRL7023D               |
|------------------|---|------------------------|------------------------|------------------------|------------------------|------------------------|
| Capacity         | Approx. Cubic Inches (cm <sup>3</sup> )   | 46,425 (760,769)       | 44,761 (733,501)       | 44,260 (725,291)       | 45,242 (741,384)       | 37,812 (619,628)       |
|                  | Approx. Square Inches (cm <sup>2</sup> )  | 12,251 (79,038)        | 12,925 (83,387)        | 13,111 (84,587)        | 11,605 (74,871)        | 11,499 (74,187)        |
|                  | Load Capacity, lb (kg)                    | 6,800 (3,084)          | 6,800 (3,084)          | 6,800 (3,084)          | 6,800 (3,084)          | 6,800 (3,084)          |
| Footprint        | Width, inches (mm)                        | 72-7/8 (1,851)         | 72-7/8 (1,851)         | 72-7/8 (000)           | 72-7/8 (1,851)         | 72-7/8 (1,851)         |
|                  | Depth, inches (mm)                        | 29-1/8 (740)           | 29-1/8 (740)           | 29-1/8 (740)           | 29-1/8 (739.7)         | 29-1/8 (740)           |
|                  | Height, inches (mm)                       | 45-7/8 (1,165)         | 45-7/8 (1,165)         | 45-7/8 (1,165)         | 45-7/8 (1,165)         | 41-3/8 (1,051)         |
| Drawers          | Drawer Banks                              | 2                      | 3                      | 3                      | 3                      | 3                      |
|                  | Drawer Count                              | 12                     | 19                     | 22                     | 18                     | 19                     |
|                  | Widest Drawer, inches (mm) [qty]          | 69 (1,753) [2]         | 69 (1,753) [2]         | 50 (1,270) [2]         | 50 (1,220) [3]         | 50 (1,270) [2]         |
|                  | Slides, lb (kg) (ball bearing) (per pair) | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              | 227 (103)              |
|                  | Double Slide (included)                   | Yes (5)                | Yes (2)                | Yes (2)                | Yes (2)                | Yes (2)                |
| Extras           | Work Surface                              | Non-directional Rubber | Non-directional Rubber | Non-directional Rubber | Non-directional Rubber | Non-directional Rubber |
|                  | Writing Surface (qty)                     | Yes (1)                | Yes (1)                | Yes (1)                | Yes (1)                | Yes (1)                |
|                  | Third Caster Set Option                   | Yes                    | Yes                    | Yes                    | Yes                    | Yes                    |
| Weight           | Net Weight, lb (kg)                       | 892 (405)              | 892 (405)              | 892 (405)              | 892 (405)              | 785 (356)              |
|                  | Shipping Weight, lb (kg)                  | 1,006 (456)            | 1,006 (456)            | 1,006 (456)            | 1,006 (456)            | 893 (405)              |
| Optional Add-ons | Top Chest                                 | KRL1232                | KRL1203B               | KRL1203B               | KRL1203B               | KRL1203B               |
|                  | Side Cab                                  | KRL1011A<br>KRL1015B   | KRL1011A<br>KRL1015B   | KRL1011A<br>KRL1015B   | KRL1011A<br>KRL1015B   | KRL7011A<br>KRL7015B   |
|                  | Locker                                    | KRL1012B<br>KRL1018    | KRL1012B<br>KRL1018    | KRL1012B<br>KRL1018    | KRL1012B<br>KRL1018    | KRL7012A<br>KRL7018    |
|                  | WorkCenter/Riser with Door                | KRL1072                | KRL1072                | KRL1072                | KRL1072                | KRL1072                |
|                  | Overhead                                  | KRL7245A               | KRL7245A               | KRL7245A               | KRL7245A               | KRL7245A               |
|                  | Stainless Steel Top                       | KWSN2973AST            | KWSN2973AST            | KWSN2973AST            | KWSN2973AST            | KWSN2973AST            |
|                  | Hardwood Top                              | KRWT7003B              | KRWT7003B              | KRWT7003B              | KRWT7003B              | KRWT7003B              |
|                  | Bed Liner Top                             | KWSN2973ABL            | KWSN2973ABL            | KWSN2973ABL            | KWSN2973ABL            | KWSN2973ABL            |
|                  | Stainless Steel PowerTop™ with USB        | KWSP2973AST            | KWSP2973AST            | KWSP2973AST            | KWSP2973AST            | KWSP2973AST            |
|                  | Bed Liner PowerTop™ with USB              | KWSP2973ABL            | KWSP2973ABL            | KWSP2973ABL            | KWSP2973ABL            | KWSP2973ABL            |

Images may be shown without actual warning labels.

## Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PKJ             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

Please see your Franchisee for blackout color options.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)



# MASTERS SERIES: QUICK REFERENCE CHART



**KRL1022DPDG**



**KTL1022APWZ**



**KTL7023APES**



**KMP1163PC**  
Masters Series Roll Cab with  
PowerDrawer and SpeedDrawer



**KMP1022PJK**  
Masters Series Roll Cab with  
PowerDrawer and SpeedDrawer

| KRL1022D                           | KTL1022A                           | KTL7023A                           | KMP1163                            | KMP1022                            |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 33,735<br>(552,818)                | 34,573<br>(566,550)                | 38,916<br>(637,719)                | 45,665<br>(748,315)                | 34,136<br>(559,388)                |
| 9,563<br>(61,697)                  | 8,452<br>(54,529)                  | 9,993<br>(64,471)                  | 9,457<br>(61,013)                  | 8,774<br>(143,780)                 |
| 6,800<br>(3,084)                   | 6,800<br>(3,084)                   | 6,800<br>(3,084)                   | 6,800<br>(3,084)                   | 6,800<br>(3,084)                   |
| 54-1/4 (1,378)                     | 54-1/2 (1,378)                     | 72-7/8 (1,851)                     | 72-7/8 (1,851)                     | 54-1/4 (1,378)                     |
| 29-1/8 (740)                       | 29 (736)                           | 29-1/8 (740)                       | 29-1/8 (739.7)                     | 29-1/8 (740)                       |
| 45-7/8 (1,165)                     | 45-7/8 (1,165)                     | 41-1/4 (1,124)                     | 45-7/8 (1,165)                     | 45-7/8 (1,165)                     |
| 2                                  | 2                                  | 3                                  | 3                                  | 2                                  |
| 13                                 | 10                                 | 15                                 | 15                                 | 11                                 |
| 50 (1,270) [2]                     | 50 (1,270) [3]                     | 49-1/8 (3)                         | 69 (2)                             | 50 (2)                             |
| 227 (103)                          | 227 (103)                          | 227 (103)                          | 227 (103)                          | 227 (103)                          |
| Yes (2)                            | Yes (2)                            | Yes (2)                            | Yes (2)                            | Yes (2)                            |
| Non-directional<br>Rubber          | Non-directional<br>Rubber          | Non-directional<br>Rubber          | Non-directional<br>Rubber          | Non-directional<br>Rubber          |
| Yes (1)                            | Yes (1)                            | Yes (1)                            | Yes (1)                            | Yes (1)                            |
| No                                 | No                                 | Yes                                | No                                 | No                                 |
| 632 (287)                          | 669 (303)                          | 930 (421)                          | 892 (405)                          | 632 (287)                          |
| 720 (326)                          | 757 (343)                          | 893 (405)                          | 1,006 (456)                        | 720 (326)                          |
| <b>KRL1201A</b>                    | <b>KRL1201A</b>                    | <b>KRL1203B</b>                    | <b>KRL1203B</b>                    | <b>KRL1201A</b>                    |
| <b>KRL1011A</b><br><b>KRL1015B</b> | <b>KRL1011A</b><br><b>KRL1015B</b> | <b>KRL7011A</b><br><b>KRL7015B</b> | <b>KRL7011A</b><br><b>KRL7015B</b> | <b>KRL1011A</b><br><b>KRL1015B</b> |
| <b>KRL1012B</b><br><b>KRL1018</b>  | <b>KRL1012A</b><br><b>KRL1018</b>  | <b>KRL7012A</b><br><b>KRL7018</b>  | <b>KRL1012A</b><br><b>KRL1018</b>  | <b>KRL1012A</b><br><b>KRL1018</b>  |
| <b>KRL1054</b>                     | <b>KRL1054</b>                     | <b>KRL1072</b>                     | <b>KRL1072</b>                     | <b>KRL1054</b>                     |
| <b>KRL5445A</b>                    | <b>KRL5445A</b>                    | <b>KRL7245A</b>                    | <b>KRL7245A</b>                    | <b>KRL5445A</b>                    |
| <b>KWSN2954AST</b>                 | <b>KWSN2954AST</b>                 | <b>KWSN2973AST</b>                 | <b>KWSN2973AST</b>                 | <b>KWSN2954AST</b>                 |
| <b>KRWT7002A</b>                   | <b>KRWT7002A</b>                   | <b>KRWT7003B</b>                   | <b>KRWT7003B</b>                   | <b>KRWT7002A</b>                   |
| <b>KWSN2954ABL</b>                 | <b>KWSN2954ABL</b>                 | <b>KWSN2973ABL</b>                 | <b>KWSN2973ABL</b>                 | <b>KWSN2954ABL</b>                 |
| <b>KWSP2954AST</b>                 | <b>KWSP2954AST</b>                 | <b>KWSP2973AST</b>                 | <b>KWSP2973AST</b>                 | <b>KWSP2954AST</b>                 |
| <b>KWSP2954ABL</b>                 | <b>KWSP2954ABL</b>                 | <b>KWSP2973ABL</b>                 | <b>KWSP2973ABL</b>                 | <b>KWSP2954ABL</b>                 |

Images may be shown without actual warning labels.



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# MASTERS SERIES: QUICK REFERENCE CHART



KRL7022DPKS



KRL722BPBO



KRL1056CPU



KRL756PCM

| Roll Cabs        | Specifications                            | KRL7022D               | KRL722B                | KRL1056C               | KRL756C                |
|------------------|---|------------------------|------------------------|------------------------|------------------------|
| Capacity         | Approx. Cubic Inches (cm <sup>3</sup> )   | 32,160<br>(527,008)    | 23,251<br>(381,000)    | 22,356<br>(366,350)    | 15,506<br>(254,100)    |
|                  | Approx. Square Inches (cm <sup>2</sup> )  | 8,341<br>(53,813)      | 6,770<br>(43,677)      | 6,585<br>(42,484)      | 4,677<br>(30,174)      |
|                  | Load Capacity, lb (kg)                    | 6,800<br>(3,084)       | 3,600<br>(1,633)       | 3,600<br>(1,633)       | 3,600<br>(1,633)       |
| Footprint        | Width, inches (mm)                        | 54-1/4 (1,378)         | 54-1/4 (1,378)         | 35-5/8 (892)           | 35-5/8 (892)           |
|                  | Depth, inches (mm)                        | 29-1/8 (740)           | 24 (610)               | 29-1/8 (740)           | 24 (610)               |
|                  | Height, inches (mm)                       | 41-3/8 (1,051)         | 39-7/8 (1,013)         | 44-1/4 (1,124)         | 39-7/8 (1,013)         |
| Drawers          | Drawer Banks                              | 2                      | 2                      | 1                      | 1                      |
|                  | Drawer Count                              | 11                     | 11                     | 8                      | 7                      |
|                  | Widest Drawer, inches (mm) [qty]          | 50 (1,270) [2]         | 50 (1,270) [2]         | 34 (864)               | 34 (864)               |
|                  | Slides, lb (kg) (ball bearing) (per pair) | 227 (103)              | 261 (118)              | 227 (103)              | 261 (118)              |
|                  | Double Slide (included)                   | Yes (2)                | Yes (2)                | Yes (1)                | Yes (1)                |
| Extras           | Work Surface                              | Non-directional Rubber | Non-directional Rubber | Non-directional Rubber | Non-directional Rubber |
|                  | Writing Surface (qty)                     | Yes (1)                | Yes (1)                | No                     | No                     |
|                  | Third Caster Set Option                   | No                     | No                     | No                     | No                     |
| Weight           | Net Weight, lb (kg)                       | 562 (255)              | 489 (222)              | 396 (180)              | 306 (139)              |
|                  | Shipping Weight, lb (kg)                  | 645 (292)              | 548 (248)              | 450 (204)              | 361 (164)              |
| Optional Add-ons | Top Chest                                 | KRL1201A               | KRL791A                | KRL1251                | KRL751                 |
|                  | Side Cab                                  | KRL7011A<br>KRL7015B   | KRL711A<br>KRL715B     | —                      | KRL711A<br>KRL715B     |
|                  | Locker                                    | KRL7012A<br>KRL7018    | KRL712B                | KRL1012B<br>KRL1018    | —                      |
|                  | Workcenter/Riser with Door                | KRL1054                | KRA2454                | —                      | —                      |
|                  | Overhead                                  | KRL5445A               | KRWL5435               | —                      | —                      |
|                  | Stainless Steel Top                       | KWSN2954AST            | KWSN722AST             | KRSST7001              | KRSST756               |
|                  | Hardwood Top                              | KRWT7002A              | KRWT761B               | KRWT7001A              | KRWT756A               |
|                  | Bed Liner Top                             | KWSN2954ABL            | KWSN722ABL             | —                      | KRBLT756               |
|                  | Stainless Steel PowerTop™                 | KWSP2954AST            | KWSP722AST             | —                      | —                      |
|                  | Bed Liner PowerTop™                       | KWSP2954ABL            | KWSP722ABL             | —                      | —                      |

Images may be shown without actual warning labels.

### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PFX        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

Please see your Franchisee for blackout color options.

# MASTERS SERIES: TOOL UTILITY VEHICLES (TUV)



KRP1022CPMP1

## KRP1022C Series TUV

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg)             |                     |
|---------------------------------|----------------------------------|---------------------|------------------------------------|---------------------|
| 98,413 (1,612,005)              | 16,868 (108,799)                 | 1,582 (718)         | 6,000 (2,722)                      |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)                 | Height, inches (mm) |
| <b>Specifications</b>           | 17                               | 106 (2,692)         | 29-7/8 (759)<br>35 for tires (889) | 70 (1,778)          |
| <b>Drawers</b>                  | 3                                | 14-5/8 (371)        | 26-15/16 (684)                     | 1-11/16 (43)        |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)                     | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)                     | 10-5/8 (270)        |
|                                 | 3                                | 30-1/2 (775)        | 26-15/16 (684)                     | 1-11/16 (43)        |
|                                 | 2                                | 30-1/2 (775)        | 26-15/16 (684)                     | 4 (102)             |
|                                 | 1                                | 30-1/2 (775)        | 26-15/16 (684)                     | 6-3/16 (157)        |
|                                 | 1                                | 49-1/8 (1,248)      | 26-15/16 (684)                     | 4-7/8 (124)         |
|                                 | 1                                | 49-1/8 (1,248)      | 26-15/16 (684)                     | 2-11/16 (68)        |
| <b>Locker Drawers</b>           | 4                                | 19-7/16 (494)       | 25-1/8 (638)                       | 4 (102)             |
| <b>Locker Shelves</b>           | 4                                | 21-1/16 (535)       | 22-3/4 (578)                       | Adjustable          |
| <b>Can Tray</b>                 | 1                                | 17-7/8 (454)        | 3-1/8 (79)                         | 4 (102)             |
| <b>Workcenter</b>               | <b>Dimensions</b>                | 52-3/4 (1,340)      | 23-3/4 (603)                       | 23 (584)            |

Includes (1) KAS12PV shelf and (1) writing surface.

## Optional Add-ons

|                                    |                     |
|------------------------------------|---------------------|
| <b>Locker</b>                      | 2 Included          |
| <b>Workcenter Riser</b>            | KRL1054 Included    |
| <b>Hardwood Top</b>                | KRWT7002A Option    |
| <b>Stainless Steel Top</b>         | KRSST1001B Included |
| <b>Protective Cover (roll cab)</b> | KACP1022 Option     |
| <b>Overhead</b>                    | KRL5445A Option     |



- Do not open multiple drawers
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# MASTERS SERIES: TOOL UTILITY VEHICLE (TUV)



KTP1022ABKG7

## KTP1022A Series TUV

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg)             |                     |
|---------------------------------|----------------------------------|---------------------|------------------------------------|---------------------|
| 99,252<br>(1,626,449)           | 15,757<br>(101,658)              | 1,582<br>(718)      | 6,000<br>(2,722)                   |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)                 | Height, inches (mm) |
| <b>Specifications</b>           | 14                               | 106 (2,692)         | 29-7/8 (759)<br>35 for tires (889) | 70 (1,778)          |
| <b>Drawers</b>                  | 1                                | 14-5/8 (371)        | 26-15/16 (684)                     | 1-11/16 (43)        |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)                     | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)                     | 10-5/8 (270)        |
|                                 | 1                                | 30-1/2 (775)        | 26-15/16 (684)                     | 1-11/16 (43)        |
|                                 | 2                                | 30-1/2 (775)        | 26-15/16 (684)                     | 4 (102)             |
|                                 | 1                                | 30-1/2 (775)        | 26-15/16 (684)                     | 6-3/16 (157)        |
|                                 | 1                                | 49-1/8 (1,248)      | 26-15/16 (684)                     | 2-11/16 (68)        |
|                                 | 1                                | 49-1/8 (1,248)      | 26-15/16 (684)                     | 4-7/8 (124)         |
|                                 | 1                                | 49-1/8 (1,248)      | 26-15/16 (684)                     | 3-13/16 (97)        |
| <b>Locker Drawers</b>           | 4                                | 19-7/16 (494)       | 25-1/8 (638)                       | 4 (102)             |
| <b>Locker Shelves</b>           | 4                                | 21-1/6 (535)        | 22-3/4 (578)                       | Adjustable          |
| <b>Can Tray</b>                 | 1                                | 17-7/8 (454)        | 3-1/8 (79)                         | 2 (102)             |

Optional accessories not included.

### Colors Available



|                          | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|--------------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| <b>Bright Trim</b>       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| <b>Black Trim</b>        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| <b>Titanium Trim</b>     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| <b>Blue Trim</b>         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| <b>Red Trim</b>          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| <b>Orange Valor Trim</b> | ZCG | PXY         | ZAS        | ZHG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCJ             | PXS   | PZF        |
| <b>Atomic Green Trim</b> | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)



**KP1023JS**



## KRP/KRT Series Chassis Accessories

| Stock No.    | Description                 | Application   |
|--------------|-----------------------------|---|
| PITJ051BLT   | Bed Liner Fender            | Fits all Snap-on® TUV units   |
| KATUVGRILL   | Stainless Steel Front Grill | Fits all Snap-on® TUV units   |
| PIT2J051SST  | Stainless Steel Fender      | Fits all Snap-on® TUV units   |
| KATUVBUMPER  | Stainless Steel Back Bumper | Fits all Snap-on® TUV units   |
| KP1023JS     | Jack Stand                  | Fits all Snap-on® TUV units   |
| KATUVBAR54   | Stainless Steel Side Bar    | 54" Step Bar Fits KRP1022/KRT1022 and KRLR1022 Series of TUV Units                                      |
| KATUVBAR54BL | Gloss Black Side Bar        | 54" Step Bar Fits KRP1022, KRT1022 and KRLR1022 Series of TUV Units                                     |
| KATUVBAR72   | Stainless Steel Side Bar    | 72" Step Bar Fits KRP1023/KRT1023 and KRP1032/KRT1032 Series of TUV Units                               |
| KATUVBAR72BL | Gloss Black Side Bar        | 72" Step Bar Fits KRP1023, KRT1023, KTP1023, KRP1032, KRT 1032, KRP1033 and KRT1033 Series of TUV Units |

## KRP/KRT Series Covers

| Red Stock No. | Black Stock No. | Black with Extreme Green S Logo | Description  |
|---------------|-----------------|---------------------------------|--|
| KACP1022      | KACP1022PC      | KACP1022EGS                     | Cover for KRP1022/KRT1022/KTP1022 TUV Units          |
| KACP1023      | KACP1023PC      | —                               | Cover for KRP1023/KRT1023/ KRP1032/KTP1032 TUV Units |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# MASTERS SERIES: ROLL CABS



**KRL1032FPBO**  
72" 12-Drawer Double Bank  
Masters Series Roll Cab



**KRL1033DPCM**  
72" 19-Drawer Triple Bank  
Masters Series Roll Cab



**KRL1023DBDC7**  
72" 22-Drawer Triple-Bank  
Masters Series Bed Liner Top Roll Cab

## Masters Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height   |     | KRL1032F  | KRL1033D  | KRL1023D  |
|---------------------------|-------|----------|-----|----------|-----|-----------|-----------|-----------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers   | Drawers   | Drawers   |
| 14-5/8                    | 371   | 26-15/16 | 684 | 1-11/16  | 43  | 3         | 6         | 8         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 4        | 102 | 1         | 3         | 4         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 6-3/16   | 157 | —         | 1         | 1         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 10-5/8   | 270 | 1         | 1         | 1         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 12-13/16 | 326 | —         | —         | —         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 1-11/16  | 43  | —         | 3         | 3         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 4        | 102 | —         | 2         | 2         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 6-3/16   | 157 | —         | 1         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 1-9/16   | 40  | 1         | —         | —         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 3-13/16  | 97  | 3         | —         | —         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 6        | 152 | 1         | —         | —         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 2-11/16  | 68  | —         | —         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 4-7/8    | 124 | —         | —         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 3-13/16  | 81  | —         | —         | —         |
| 67-1/8                    | 1,705 | 26-15/16 | 684 | 2-11/16  | 68  | 1         | 1         | —         |
| 67-1/8                    | 1,705 | 26-15/16 | 684 | 4-7/8    | 124 | 1         | 1         | —         |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>12</b> | <b>19</b> | <b>22</b> |

Images may be shown without actual warning labels.

### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PFX        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

# MASTERS SERIES: ROLL CABS

TOOL STORAGE



**KTL7023APES**  
72" 15-Drawer Triple Bank Masters Series Roll Cab



**KRL7023DPJJ**  
72" 19-Drawer Triple Bank Masters Series Roll Cab



**KTL1023APBO**  
72" 18-Drawer Triple Bank Masters Series Roll Cab



**KMP1163PC**  
72" 15-Drawer Triple Bank Masters Series Roll Cab with PowerDrawer and 2" SpeedDrawer



**KMP1163**  
Includes 2" SpeedDrawer with organizer (tools not included)



**KMP1163**  
Includes power tool organizer drawer (tools not included)

## Masters Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height   |     | KTL7023A  | KRL7023D  | KTL1023A  | KMP1163   |
|---------------------------|-------|----------|-----|----------|-----|-----------|-----------|-----------|-----------|
| inches                    | mm    | inches   | mm  | inches   | mm  | Drawers   | Drawers   | Drawers   | Drawers   |
| 14-5/8                    | 371   | 26-15/16 | 684 | 1-11/16  | 43  | 4         | 8         | 4         | 1         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 4        | 102 | 3         | 2         | 5         | 4         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 6-3/16   | 157 | 1         | 1         | 1         | —         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 8-3/8    | 213 | —         | —         | —         | 1         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 10-5/8   | 270 | 1         | 1         | 1         | 1         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 12-13/16 | 326 | —         | —         | —         | 1         |
| 29-5/8                    | 752   | 25-1/2   | 648 | 1-11/16  | 43  | —         | —         | —         | 1         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 1-11/16  | 43  | 1         | 3         | 1         | —         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 4        | 102 | 1         | 1         | 2         | 3         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 6-3/16   | 157 | 1         | 1         | 1         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 2-11/16  | 68  | 1         | 1         | 1         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 3-13/16  | 81  | 1         | —         | 1         | —         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 4-7/8    | 124 | 1         | 1         | 1         | 1         |
| <b>Total Drawer Count</b> |       |          |     |          |     | <b>15</b> | <b>19</b> | <b>18</b> | <b>15</b> |

Tools shown in tool storage not included. Images may be shown without actual warning labels.



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# MASTERS SERIES: ROLL CABS



**KRL1022DPDG**  
54" 13-Drawer Double Bank Masters Series Roll Cab



**KTL1022APWZ**  
54" 10-Drawer Double Bank Masters Series Roll Cab



**KRL7022DPKS**  
54" 11-Drawer Double Bank Masters Series Roll Cab

## Masters Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height  |     | KRL1022D  | KTL1022A  | KRL7022D  |
|---------------------------|-------|----------|-----|---------|-----|-----------|-----------|-----------|
| inches                    | mm    | inches   | mm  | inches  | mm  | Drawers   | Drawers   | Drawers   |
| 14-5/8                    | 371   | 26-15/16 | 684 | 1-11/16 | 43  | 3         | 1         | 3         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 4       | 102 | 1         | 1         | —         |
| 14-5/8                    | 371   | 26-15/16 | 684 | 10-5/8  | 270 | 1         | 1         | 1         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 1-11/16 | 43  | 3         | 1         | 3         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 4       | 102 | 2         | 2         | 1         |
| 30-1/2                    | 775   | 26-15/16 | 684 | 6-3/16  | 157 | 1         | 1         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 2-11/16 | 68  | 1         | 1         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 4-7/8   | 124 | 1         | 1         | 1         |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 3-13/16 | 97  | —         | 1         | —         |
| <b>Total Drawer Count</b> |       |          |     |         |     | <b>13</b> | <b>10</b> | <b>11</b> |

### Colors Available



|                   | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)



# MASTERS SERIES: ROLL CABS



**KRL722BPB0**  
54" 11-Drawer Double Bank  
Masters Series Roll Cab



**KMP1022PJK**  
54" 11-Drawer Double Bank  
Masters Series Roll Cab with  
PowerDrawer and SpeedDrawer



**KRL1056CPU**  
36" Eight-Drawer Single Bank  
Masters Series Roll Cab



**KRL756PCM**  
35" Seven-Drawer Single Bank  
Masters Series Roll Cab



**KMP1022**  
Includes PowerDrawer  
with (5) outlets and  
(2) USBs  
(tools not included)



**KMP1022**  
Includes 2" SpeedDrawer  
with organizer  
(tools not included)

## Masters Series Roll Cab Drawer Sizes

| Width                     |       | Depth    |     | Height  |     | KRL722B   | KMP1022   | KRL1056C | KRL756C  |
|---------------------------|-------|----------|-----|---------|-----|-----------|-----------|----------|----------|
| inches                    | mm    | inches   | mm  | inches  | mm  | Drawers   | Drawers   | Drawers  | Drawers  |
| 14-5/8                    | 371   | 21-7/8   | 557 | 1-11/16 | 43  | 3         | —         | —        | —        |
| 14-5/8                    | 371   | 26-15/16 | 684 | 4       | 102 | —         | 1         | —        | —        |
| 14-5/8                    | 371   | 26-15/16 | 684 | 8-3/8   | 213 | —         | 2         | —        | —        |
| 14-5/8                    | 371   | 21-7/8   | 557 | 10-5/8  | 270 | 1         | —         | —        | —        |
| 29-5/8                    | 752   | 25-1/2   | 648 | 1-11/16 | 43  | —         | 1         | —        | —        |
| 30-1/2                    | 775   | 21-7/8   | 557 | 1-11/16 | 43  | 3         | —         | —        | 3        |
| 30-1/2                    | 775   | 21-7/8   | 557 | 4       | 102 | 1         | —         | —        | 3        |
| 30-1/2                    | 775   | 21-7/8   | 557 | 6-3/16  | 157 | 1         | —         | —        | 1        |
| 30-1/2                    | 775   | 26-15/16 | 684 | 1-11/16 | 43  | —         | 2         | 3        | —        |
| 30-1/2                    | 775   | 26-15/16 | 684 | 4       | 102 | —         | 2         | 4        | —        |
| 30-1/2                    | 775   | 26-15/16 | 684 | 6-3/16  | 157 | —         | 1         | 1        | —        |
| 49-1/8                    | 1,248 | 21-7/8   | 557 | 2-11/16 | 68  | 1         | —         | —        | —        |
| 49-1/8                    | 1,248 | 21-7/8   | 557 | 4-7/8   | 124 | 1         | —         | —        | —        |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 2-11/16 | 68  | —         | 1         | —        | —        |
| 49-1/8                    | 1,248 | 26-15/16 | 684 | 4-7/8   | 124 | —         | 1         | —        | —        |
| <b>Total Drawer Count</b> |       |          |     |         |     | <b>11</b> | <b>11</b> | <b>8</b> | <b>7</b> |

Tools shown in tool storage not included. Images may be shown without actual warning labels.



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# MASTERS SERIES: TOP CHESTS



**KRL1232PCM**



**KRL1203BPB0**



**KRL1201APES**



**KRL1251PJK**

## KRL1232 Series Top Chests

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 33,358 (546,404)                | 10,533 (67,938)                  | 590 (268)           | 668 (303)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 10                               | 72-7/8 (1,851)      | 29-1/8 (740)             | 25-3/8 (645)        |
| <b>Drawers</b>                  | 2                                | 14-5/8 (371)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 2                                | 49-1/8 (1,248)      | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 49-1/8 (1,248)      | 26-15/16 (684)           | 4 (102)             |
| <b>Top Compartment</b>          | Narrow                           | 18-9/16 (471)       | 26-7/8 (683)             | 4-1/8 (105)         |
|                                 | Wide                             | 53-7/8 (1,368)      | 26-7/8 (683)             | 4-1/8 (105)         |

## KRL1203B Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 32,109 (525,945)                | 9,994 (64,461)                   | 590 (268)           | 681 (309)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 15                               | 72-7/8 (1,851)      | 29-1/8 (740)             | 25-3/8 (645)        |
| <b>Drawers</b>                  | 4                                | 14-5/8 (371)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 6                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 2                                | 30-1/2 (775)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 30-1/2 (775)        | 26-15/16 (684)           | 4 (102)             |
| <b>Top Compartment</b>          | Narrow                           | 18-9/16 (471)       | 26-7/8 (683)             | 4-1/8 (105)         |
|                                 | Wide                             | 53-7/8 (1,368)      | 26-7/8 (683)             | 4-1/8 (105)         |

## KRL1201A Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 24,456 (400,589)                | 7,526 (48,543)                   | 424 (192)           | 505 (229)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 10                               | 54-1/4 (1,375)      | 29-1/8 (740)             | 25-3/8 (645)        |
| <b>Drawers</b>                  | 2                                | 14-5/8 (371)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 2                                | 30-1/2 (775)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 30-1/2 (775)        | 26-15/16 (684)           | 4 (102)             |
| <b>Top Compartment</b>          | —                                | 53-7/8 (1,368)      | 26-7/8 (683)             | 4-1/8 (105)         |

## KRL1251 Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 16,348 (267,780)                | 5,059 (32,631)                   | 267 (121)           | 306 (140)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 5                                | 35-5/8 (905)        | 29-1/8 (740)             | 25-3/8 (645)        |
| <b>Drawers</b>                  | 2                                | 30-1/2 (775)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 30-1/2 (775)        | 26-15/16 (684)           | 4 (102)             |
| <b>Top Compartment</b>          | —                                | 35-3/8 (899)        | 26-7/8 (683)             | 4-1/8 (105)         |

**Colors Available**



|                   |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Bright Trim       | PBO | PC  | PCM | PES | PJK | PJJ | PKS | PDG | PRA | PJH | PU  | PRJ |
| Black Trim        | PN  | PFI | PET | PDO | PKH | PKG | PLE | PQD | POT | PPS | PDC | PWZ |
| Titanium Trim     | PUT | PUU | PUW | PUZ | PVB | PVE | PVD | PVF | PUS | PVA | PVC | PXF |
| Blue Trim         | PQG | PLS | PME | PPR | PPX | PQA | PLC | PQE | PRK | PPU | PMP | PYC |
| Red Trim          | PMS | PLU | PPG | PLR | PPY | PQB | PLB | PQF | PRF | PPV | PFT | PYB |
| Orange Valor Trim | ZCG | PXY | ZAS | ZBG | ZAF | ZAZ | ZAE | PZZ | PXB | ZCI | PXS | PZF |
| Atomic Green Trim | ZCH | PWT | ZAO | ZAQ | ZAP | ZAK | ZAJ | ZAH | PWW | ZBA | PXQ | PZT |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

## MASTERS SERIES: TOP CHESTS

### KRL791A Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 15,927 (260,884)                | 5,132 (33,101)                   | 302 (137)           | 384 (174)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 8                                | 54-1/4 (1,375)      | 24 (610)                 | 21 (533)            |
| <b>Drawers</b>                  | 2                                | 14-5/8 (371)        | 21-7/8 (557)             | 1-11/16 (43)        |
|                                 | 2                                | 14-5/8 (371)        | 21-7/8 (557)             | 4 (102)             |
|                                 | 2                                | 30-1/2 (775)        | 21-7/8 (557)             | 1-11/16 (43)        |
|                                 | 2                                | 30-1/2 (775)        | 21-7/8 (557)             | 4 (102)             |
| <b>Top Compartment</b>          | —                                | 53-7/8 (1,368)      | 21-3/4 (552)             | 4-1/8 (105)         |



KRL791APJJ

### KRL751 Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 13,294 (217,756)                | 4,115 (26,542)                   | 194 (88)            | 245 (111)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 4                                | 35-5/8 (905)        | 24 (610)                 | 21 (533)            |
| <b>Drawers</b>                  | 2                                | 30-1/2 (775)        | 21-7/8 (557)             | 1-11/16 (43)        |
|                                 | 2                                | 30-1/2 (775)        | 21-7/8 (557)             | 4 (102)             |
| <b>Top Compartment</b>          | —                                | 35-3/8 (899)        | 21-3/4 (552)             | 4-1/8 (105)         |



KRL751PC

## MASTERS SERIES: WORKCENTERS

### WorkCenters

Get the most out of a work day at this convenient place to take notes, work off a laptop or monitor diagnostic equipment. Open the door to a back wall that can be organized for tool holders, shelves and lighting.

- Door opens virtually effortlessly with gas springs and cam-assist design
- Convenient access to tools, convenient security – able to lock up work in progress
- Slots-N-Dots™ Plus back panel for use with Snap-on® tool organizing accessories
- Structural continuity design with corner gussets and a standing seam for increased strength and durability
- Stainless steel inside walls allow magnetic items to be attached
- Shiny stainless steel walls reflect the light, magnifying available light
- Extra key plug to key-alike to roll cab
- Mounting template for drilling – including a drill bit for easier installation
- Includes KAS12APV hanging shelf and KAT12APV can rack



KRL1072PCM

| Specifications                        | KRL1072          | KRL1054          | KRA2454          |
|---------------------------------------|------------------|------------------|------------------|
| <b>Cubic Inches (cm<sup>3</sup>)</b>  | 26,522 (434,617) | 19,409 (318,056) | 13,524 (221,619) |
| <b>Square Inches (cm<sup>2</sup>)</b> | 4,005 (25,838)   | 3,136 (20,232)   | 1,127 (7,271)    |
| <b>Width, inches (mm)</b>             | 72-7/8 (1,851)   | 54-1/8 (1,381)   | 54-7/16 (1,382)  |
| <b>Height, inches (mm)</b>            | 23-9/16 (599)    | 23-9/16 (599)    | 27 (686)         |
| <b>Depth, inches (mm)</b>             | 27-1/2 (699)     | 27-1/2 (699)     | 22-7/16 (570)    |
| <b>Inside Width, inches (mm)</b>      | 69-7/16 (1,764)  | 50-13/16 (1,264) | 50-13/16 (1,264) |
| <b>Net Weight, lb (kg)</b>            | 214 (97)         | 176 (80)         | 165 (74.8)       |
| <b>Shipping Weight, lb (kg)</b>       | 320 (146)        | 258 (117)        | 258 (117)        |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## MASTERS SERIES: BULK OVERHEAD CABINETS



KRL7245APKS



KRWL3635PES

### Bulk Overhead Cabinets

| Specifications                   | KRL7245A         | KRL5445A         | KRWL5435         | KRWL3635        |
|----------------------------------|------------------|------------------|------------------|-----------------|
| Cubic Inches (cm <sup>3</sup> )  | 26,814 (439,219) | 19,629 (321,516) | 15,076 (246,948) | 8,700 (142,567) |
| Square Inches (cm <sup>2</sup> ) | 1,740 (11,224)   | 1,274 (8,216)    | 1,042 (6,719)    | 756 (4,877)     |
| Width, inches (mm)               | 72-7/8 (1,851)   | 54-1/4 (1,378)   | 54-1/4 (1,378)   | 36 (914)        |
| Height, inches (mm)              | 18-1/8 (460)     | 18-1/8 (460)     | 16 (406)         | 16 (406)        |
| Depth, inches (mm)               | 27-1/2 (699)     | 27-1/2 (699)     | 21 (533)         | 21 (533)        |

## MASTERS SERIES: END CABINETS



KMP7099PBO

### KMP7099 Series End Cab with PowerDrawer

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 9,917 (162,510)                 | 1,182 (7,626)                    | 230 (104)           | —                        |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| Specifications                  | 3                                | 19-3/4 (501)        | 29 (737)                 | 32-15/16 (836)      |
| Drawers                         | 1                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)           | 12-13/16 (326)      |
| PowerDrawer*                    | 1                                | 14-5/8 (371)        | 26-15/16 (684)           | 8-3/8 (213)         |

\* Power strip has (5) outlets and (2) USBs



KRL1011APJJ

### KRL1011A Series End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 10,735 (175,839)                | 3,152 (20,330)                   | 267 (121)           | 295 (134)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| Specifications                  | 8                                | 19-3/4 (502)        | 29-1/8 (740)             | 37-5/16 (948)       |
| Drawers                         | 3                                | 14-5/8 (371)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 4                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (685)           | 6-3/16 (157)        |

#### Colors Available



| Trim Color        | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|-------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| Bright Trim       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| Black Trim        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| Titanium Trim     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| Blue Trim         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| Red Trim          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| Orange Valor Trim | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| Atomic Green Trim | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

## KRL1221 Series Top Cabinet

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 8,115 (132,924)                 | 2,469 (15,925)                   | 170 (77)            | 218 (99)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 5                                | 19-3/4 (502)        | 29-1/8 (740)             | 25-3/8 (645)        |
| <b>Drawers</b>                  | 2                                | 14-5/8 (371)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
| <b>Top Compartment</b>          | —                                | 18-9/16 (471)       | 26-7/8 (683)             | 4-1/8 (105)         |



KRL1221PC

## MASTERS SERIES: POWERCAB™ END CABINETS

### KMP1099 Series End Cab with PowerDrawer

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 11,474 (188,025)                | 1,576 (10,167)                   | 267 (121)           | 317 (144)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Drawers</b>                  | 2                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)           | 8-3/8 (213)         |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)           | 12-13/16 (326)      |
| <b>Specifications</b>           | 4                                | 19-3/4 (501)        | 29 (737)                 | 37-5/16 (948)       |

Includes (2) adjustable shelves and integrated power strip.

Tools not included.



KMP1099PB0



**KMP1099**  
Includes power tool organizer drawer (tools not included)



**KMP1099**  
Includes PowerDrawer with (5) outlets and (2) USBs (tools not included)

### KMP799 700 Series End Cab with PowerDrawer

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 8,044 (131,817.5)               | 959 (6,187)                      | 193 (88)            | 243 (110)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Drawers</b>                  | 1                                | 14-5/8 (371)        | 21-7/8 (557)             | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 21-7/8 (557)             | 8-3/8 (213)         |
|                                 | 1                                | 14-5/8 (371)        | 21-7/8 (557)             | 12-13/16 (326)      |
| <b>Specifications</b>           | 3                                | 19-3/4 (501)        | 24 (610)                 | 32-15/16 (836)      |



KMP799PCM

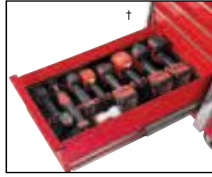


- Secure end cab to roll cab per instructions
- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# MASTERS SERIES: END CABINETS



**KRL1098PBO**



**KRL1098**  
Includes power tool  
organizer drawer  
(tools not included)

## KRL1098 Series Drawer End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 11,088 (181,700)                | 2,364 (15,252)                   | 267 (121)           | —                        |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 6                                | 19-3/4 (502)        | 29-1/8 (746)             | 37-5/16 (948)       |
| <b>Drawers</b>                  | 2                                | 14-5/8 (371)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)           | 12-13/16 (326)      |



**KRL7011APCM**

## KRL7011A Series End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 9,160 (150,041)                 | 2,758 (17,789)                   | 230 (104)           | 267 (121)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 7                                | 19-3/4 (502)        | 29-1/8 (740)             | 32-15/16 (837)      |
| <b>Drawers</b>                  | 3                                | 14-5/8 (371)        | 26-15/16 (684)           | 1-11/16 (43)        |
|                                 | 3                                | 14-5/8 (371)        | 26-15/16 (684)           | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 26-15/16 (684)           | 6-3/16 (157)        |



**KRL711APES**

## KRL711A Series End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 7,438 (121,834)                 | 2,239 (14,442)                   | 193 (88)            | 225 (102)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 7                                | 19-3/4 (502)        | 24 (610)                 | 32-15/16 (837)      |
| <b>Drawers</b>                  | 3                                | 14-5/8 (371)        | 21-7/8 (557)             | 1-11/16 (43)        |
|                                 | 3                                | 14-5/8 (371)        | 21-7/8 (557)             | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 21-7/8 (557)             | 6-3/16 (157)        |

**Colors Available**



|                          | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|--------------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| <b>Bright Trim</b>       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| <b>Black Trim</b>        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| <b>Titanium Trim</b>     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| <b>Blue Trim</b>         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| <b>Red Trim</b>          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| <b>Orange Valor Trim</b> | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| <b>Atomic Green Trim</b> | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.

1 = Stainless steel work surface (P model) and stainless steel fenders (P and T models)  
7 = Bed liner work surface (P model) and bed liner fenders (P and T models)

# MASTERS SERIES: BULK END CABINETS

## KRL1015B Series Bulk End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 11,608 (190,139)                | 1,094 (7,056)                    | 184 (83)            | 220 (100)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 2                                | 19-3/4 (502)        | 29-1/8 (740)             | 37-5/16 (948)       |
| <b>Drawers</b>                  | 2                                | 13-1/4 (337)        | 24-3/4 (629)             | 4 (102)             |
| <b>Shelves</b>                  | 1                                | 16-1/4 (413)        | 25-3/8 (645)             | Adjustable          |

## KRL7015 Series Bulk Storage End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 9,770 (160,033)                 | 1,094 (7,056)                    | 142 (64)            | 181 (82)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 2                                | 19-3/4 (502)        | 29-1/8 (740)             | 32-15/16 (837)      |
| <b>Drawers</b>                  | 2                                | 13-1/4 (337)        | 24-3/4 (629)             | 4 (102)             |
| <b>Shelves</b>                  | 1                                | 16-1/4 (413)        | 25-3/8 (645)             | Adjustable          |

## KRL715 Series Bulk Storage End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 7,984 (130,830)                 | 894 (5,768)                      | 122 (55)            | 159 (72)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 2                                | 19-3/4 (501)        | 24 (610)                 | 32-15/16 (836)      |
| <b>Drawers</b>                  | 2                                | 13-1/4 (337)        | 20-1/8 (508)             | 4 (102)             |
| <b>Shelves</b>                  | 1/0                              | 16-1/4 (406)        | 20-5/8 (508)             | Adjustable          |



KRL1015BPB0

# MASTERS SERIES: DOCKER LOCKER®

## Docker Locker® Lockers

Provides a quick way to secure tools and gives additional bulk storage. Includes a roll cart designed to fit locker (not available separately), KAT18PV can rack and one adjustable shelf. Mounts on either side of KRL1000 or KRL7000 Series roll cabs. Not designed for use with standard roll carts.

### KRL1018 Series

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |
|---------------------------------|----------------------------------|---------------------|--------------------------|
| 31,642 (518,296)                | 1,578 (10,178)                   | 202 (92)            | 295 (134)                |
|                                 | Width, inches (mm)               | Depth, inches (mm)  | Height, inches (mm)      |
| <b>Specifications</b>           | 24-1/16 (611)                    | 29-1/8 (740)        | 62-3/8 (1,584)           |

### KRL7018 Series

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |
|---------------------------------|----------------------------------|---------------------|--------------------------|
| 29,139 (477,297)                | 1,578 (10,178)                   | 190 (86)            | 287 (130)                |
|                                 | Width, inches (mm)               | Depth, inches (mm)  | Height, inches (mm)      |
| <b>Specifications</b>           | 24-1/16 (611)                    | 29-1/8 (740)        | 57-15/16 (1,472)         |

(US Patent 6,719,384)



KRL1018PB0



- Secure end cab to roll cab per instructions
- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# MASTERS SERIES: LOCKERS



**KRL1012BPBO**

## KRL1012B Series Locker

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 28,446 (465,945)                | 3,564 (22,988)                   | 306 (139)           | 369 (167)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 4                                | 24-1/16 (611)       | 29-1/8 (740)             | 62-3/8 (1,584)      |
| <b>Drawers</b>                  | 4                                | 19-7/16 (495)       | 25-1/8 (638)             | 4 (102)             |
| <b>Shelves</b>                  | 3                                | 24-1/16 (611)       | 22-3/4 (578)             | Adjustable          |
| <b>Trays</b>                    | 2                                | 17-7/8 (454)        | 3-1/8 (79)               | 4 (102)             |

## KRL7012A Series Locker

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 26,085 (427,272)                | 3,564 (22,988)                   | 285 (129)           | 345 (156)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 4                                | 24-1/16 (611)       | 29-1/8 (740)             | 57-15/16 (1,472)    |
| <b>Drawers</b>                  | 4                                | 19-1/2 (495)        | 25-1/8 (638)             | 4 (102)             |
| <b>Shelves</b>                  | 3                                | 24-1/16 (611)       | 22-3/4 (578)             | Adjustable          |
| <b>Trays</b>                    | 2                                | 17-7/8 (454)        | 3-1/8 (79)               | 4 (102)             |

## KRL712B Series Locker

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 20,568 (336,904)                | 2,831 (18,260)                   | 238 (108)           | 297 (135)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 4                                | 24-1/16 (611)       | 24 (610)                 | 53-7/16 (1,357)     |
| <b>Drawers</b>                  | 4                                | 19-7/16 (495)       | 20 (508)                 | 4 (102)             |
| <b>Shelves</b>                  | 3                                | 21-1/16 (535)       | 17-9/16 (446)            | Adjustable          |
| <b>Trays</b>                    | 3                                | 17-7/8 (454)        | 3-1/8 (79)               | 4 (102)             |

**Colors Available**




|                          | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
|--------------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
| <b>Bright Trim</b>       | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | PRA        | PJH             | PU    | PRJ        |
| <b>Black Trim</b>        | PN  | PFI         | PET        | PDO          | PKH             | PKG           | PLE           | PQD           | POT        | PPS             | PDC   | PWZ        |
| <b>Titanium Trim</b>     | PUT | PUU         | PUW        | PUZ          | PVB             | PVE           | PVD           | PVF           | PUS        | PVA             | PVC   | PXF        |
| <b>Blue Trim</b>         | PQG | PLS         | PME        | PPR          | PPX             | PQA           | PLC           | PQE           | PRK        | PPU             | PMP   | PYC        |
| <b>Red Trim</b>          | PMS | PLU         | PPG        | PLR          | PPY             | PQB           | PLB           | PQF           | PRF        | PPV             | PFT   | PYB        |
| <b>Orange Valor Trim</b> | ZCG | PXY         | ZAS        | ZBG          | ZAF             | ZAZ           | ZAE           | PZZ           | PXB        | ZCI             | PXS   | PZF        |
| <b>Atomic Green Trim</b> | ZCH | PWT         | ZAO        | ZAQ          | ZAP             | ZAK           | ZAJ           | ZAH           | PWW        | ZBA             | PXQ   | PZT        |

All Masters Series units are available in 12 standard colors and 7 trim colors. Add suffix to base stock number for special colors.



# CLASSIC



A GOOD FOUNDATION IS ESSENTIAL FOR STARTING A SUCCESSFUL TECHNICIAN CAREER. SO IS THE RIGHT ROLL CAB. OUR CLASSIC SERIES IS AFFORDABLE, YET LIKE ALL SNAP-ON® TOOL STORAGE, BUILT TO LAST. IN ADDITION TO UNMATCHED STRENGTH AND DURABILITY, IT ALSO PROVIDES INNOVATIVE FEATURES LIKE POWERDRAWER AND SPEEDDRAWER.

## OPTIONS ARE ALWAYS AN OPTION.

You can customize your Classic Series roll cab to suit your own needs and taste, with your choice of color, work surface, lighting and protection package. You can also expand its capabilities with end cabs, a WorkCenter, lockers, a PowerDrawer with USB ports and overheads – on Day One or down the road.

# CLASSIC SERIES: QUICK REFERENCE CHART



**KRA2432PJJ**  
(Stainless Steel Top Not Included)



**KRA2423PU**



**KCP1423PBO**



**KCP2423BKH**

| Roll Cabs        | Specifications                           | KRA2432               | KRA2423               | KCP1423   | KCP2423               |
|------------------|--|-----------------------|-----------------------|---|-----------------------|
| Capacity         | Approx. Cubic Inches (cm <sup>3</sup> )  | 33,000 (540,773)      | 31,237 (530,000)      | 37,458 (613,827)  | 31,453 (515,428)      |
|                  | Approx. Square Inches (cm <sup>2</sup> ) | 8,500 (54,839)        | 8,604 (55,509)        | 8,723 (56,277)  | 7,971 (51,427)        |
|                  | Load Capacity (kg)                       | 2,400 (1,089)         | 2,400 (1,089)         | 2,400 (1,095)   | 2,400 (1,095)         |
| Footprint        | Width, inches (mm)                       | 73 (1,854)            | 73 (1,854)            | 73 (1,854)  | 73 (1,854)            |
|                  | Depth, inches (mm)                       | 24 (610)              | 24 (609.6)            | 24 (610)  | 24 (610)              |
|                  | Height, inches (mm)                      | 39 (991)              | 39 (991)              | 43 (1,092)  | 39 (991)              |
| Drawers          | Drawer Banks                             | 2                     | 3                     | 3   | 3                     |
|                  | Drawer Count                             | 12                    | 17                    | 15  | 15                    |
|                  | Widest Drawer, inches (mm)               | 50 (1,270)            | 50 (1,270)            | 50 (1,270)  | 50 (1,270)            |
|                  | Slides, lb (kg) (ball bearing)           | 120 (54)              | 120 (54)              | 227 (103)   | 120 (54)              |
|                  | Double Slides                            | Yes<br>(5 drawers)    | Yes<br>(2 drawers)    | 5" Top Extra-wide<br>Drawer and<br>4" Third Drawer Down | Yes<br>(3 drawers)    |
| Extras           | Top Mat                                  | Unidirectional Rubber | Unidirectional Rubber | Unidirectional Rubber                                   | Unidirectional Rubber |
|                  | PowerDrawer                              | No                    | No                    | Included  | Included              |
| Weight           | Net Weight, lb (kg)                      | 547 (248)             | 555 (252)             | 668 (303 kg)  | 560 (254)             |
|                  | Shipping Weight, lb (kg)                 | 643 (292)             | 670 (303)             | 765 (347)   | 674 (305)             |
| Optional Add-ons | Top Chest                                | KRA2415A              | KRA2415A              | KRA2415A  | KRA2415A              |
|                  | Side Cab                                 | KRA2406A              | KRA2406A              | KRA1406   | KRA2406A              |
|                  | Locker                                   | KRA2403A              | KRA2403A              | KRA1403   | KRA2403A              |
|                  | WorkCenter Riser w/ Door                 | KRA2472               | KRA2472               | KRA2472   | KRA2472               |
|                  | Overhead                                 | KRWL3635 (2)          | KRWL3635 (2)          | KRWL3635 (2)  | KRWL3635 (2)          |
|                  | Hardwood Top                             | KRWT2418              | KRWT2418              | KRWT2418  | KRWT2418              |
|                  | Stainless steel Top                      | KWSN2473AST           | KWSN2473AST           | KWSN2473AST   | KWSN2473AST           |
|                  | Bed liner Top                            | KWSN2473ABL           | KWSN2473ABL           | KWSN2473ABL   | KWSN2473ABL           |
|                  | Stainless steel PowerTop™                | KWSP2473AST           | KWSP2473AST           | KWSP2473AST   | KWSP2473AST           |
|                  | Bed Liner PowerTop™                      | KWSP2473ABL           | KWSP2473ABL           | KWSP2473ABL   | KWSP2473ABL           |
|                  | Third Caster Set Option                  | No                    | No                    | No  | No                    |

**Colors Available**

|     |             |            |               |                 |               |            |       |            |                 |        |
|-----|-------------|------------|---------------|-----------------|---------------|------------|-------|------------|-----------------|--------|
|     |             |            |               |                 |               |            |       |            |                 |        |
| Red | Gloss Black | Royal Blue | Midnight Blue | Electric Orange | Extreme Green | Flat Black | White | Storm Gray | Candy Apple Red | Purple |
| PBO | PC          | PCM        | PDG           | PJK             | PJJ           | Blk Trim   | PU    | Blk Trim   | PJH             | PEV    |
| BN  | BFI         | BET        | BQD           | BKH             | BKG           | POT        | BDC   | PWZ        | BPS             | BEG    |

All Classic Series units are available in nine standard colors. Black Trim/Black Logo, Blackout version (black trim and logo) are available in Red (BN), Gloss Black (BFI), Royal Blue (BET), Midnight Blue (BQD), Extreme Green (BKG), Electric Orange (BKH) and White (BDC) Add suffix to base stock number for special colors.

# CLASSIC SERIES: QUICK REFERENCE CHART



KRA2407PJK



KRA2411PDG



KRA2422PC



KCP1422BKG



KCP2422BKH

| Roll Cabs               | Specifications                           | KRA2407               | KRA2411               | KRA2422               | KCP1422               | KCP2422               |
|-------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Capacity                | Approx. Cubic Inches (cm <sup>3</sup> )  | 16,000 (262,193)      | 23,612 (387,236)      | 23,969 (393,442)      | 28,219 (462,427)      | 23,902 (391,691)      |
|                         | Approx. Square Inches (cm <sup>2</sup> ) | 4,700 (30,322)        | 6,300 (40,645)        | 6,300 (40,645)        | 7,142 (46,077)        | 6,068 (39,150)        |
|                         | Load Capacity (kg)                       | 2,400 (1,089)         | 2,400 (1,089)         | 2,400 (1,089)         | 2,400 (1,089)         | 2,400 (1,095)         |
| Footprint               | Width, inches (mm)                       | 36 (914)              | 55 (1,397)            | 55 (1,397)            | 55 (1,397)            | 55 (1,372)            |
|                         | Depth, inches (mm)                       | 24 (610)              | 24 (610)              | 24 (610)              | 24 (610)              | 24 (610)              |
|                         | Height, inches (mm)                      | 39 (991)              | 39 (991)              | 39 (991)              | 43 (1,092)            | 39 (991)              |
| Drawers                 | Drawer Banks                             | 1                     | 2                     | 2                     | 2                     | 2                     |
|                         | Drawer Count                             | 7                     | 11                    | 10                    | 10                    | 9                     |
|                         | Widest Drawer, inches (mm)               | 32 (813)              | 50 (1,270)            | 50 (1,270)            | 50 (1,270)            | 50 (1,270)            |
|                         | Slides, lb (kg) (ball bearing)           | 120 (54)              | 120 (54)              | 120 (54)              | 227 (103)             | 120 (54)              |
|                         | Double Slides                            | No                    | Yes (2 drawers)       | Yes (2 drawers)       | Yes (2 drawers)       | Yes (2 drawers)       |
| Extras                  | Top Mat                                  | Unidirectional Rubber | Unidirectional Rubber | Unidirectional Rubber | Unidirectional Rubber | Unidirectional Rubber |
|                         | PowerDrawer                              | No                    | No                    | No                    | Included              | Included              |
| Weight                  | Net Weight, lb (kg)                      | 320 (145)             | 412 (187)             | 412 (187)             | 595 (270)             | 417 (189)             |
|                         | Shipping Weight, lb (kg)                 | 358 (162)             | 480 (218)             | 480 (218)             | 648 (294)             | 525 (238)             |
| Optional Add-ons        | Top Chest                                | KRA2405A              | KRA2410A              | KRA2410A              | KRA2410A              | KRA2410A              |
|                         | Side Cab                                 | KRA2406A              | KRA2406A              | KRA2406A              | KRA1406               | KRA2406A              |
|                         | Locker                                   | KRA2403A              | KRA2403A              | KRA2403A              | KRA1403               | KRA2403A              |
|                         | WorkCenter Riser w/ Door                 | No                    | KRA2454               | KRA2454               | KRA2454               | KRA2454               |
|                         | Overhead                                 | No                    | KRWL5435              | KRWL5435              | KRWL5435              | KRWL5435              |
|                         | Hardwood Top                             | KRWT2407              | KRWT2411              | KRWT2411              | KRWT2411              | KRWT2411              |
|                         | Stainless steel Top                      | KRSST2407             | KWSN2455AST           | KWSN2455AST           | KWSN2455AST           | KWSN2455AST           |
|                         | Bed liner Top                            | KRBLT2407             | KWSP2455ABL           | KWSP2455ABL           | KWSP2455ABL           | KWSP2455ABL           |
|                         | Stainless steel PowerTop™                | No                    | KWSP2455AST           | KWSP2455AST           | KWSP2455AST           | KWSP2455AST           |
|                         | Bed Liner PowerTop™                      | No                    | KWSP2455ABL           | KWSP2455ABL           | KWSP2455ABL           | KWSP2455ABL           |
| Third Caster Set Option | No                                       | No                    | No                    | No                    | No                    |                       |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## CLASSIC SERIES: ROLL CABS



**KCP2423BKH**  
73" 15-Drawer Triple Bank Classic Series  
Roll Cab with PowerDrawer



**KCP1423PBO**  
73" 15-Drawer Triple Bank Classic Series  
Roll Cab with PowerDrawer and SpeedDrawer

### Classic Series Roll Cab Drawer Sizes

| Specifications            | Width  |       | Depth  |     | Height  |     | KCP2423   | KCP1423   |
|---------------------------|--------|-------|--------|-----|---------|-----|-----------|-----------|
|                           | inches | mm    | inches | mm  | inches  | mm  | Drawers   | Drawers   |
| 2" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 1-3/4   | 43  | 2         | 1         |
| 4" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 4       | 102 | 3         | 3         |
| 6" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 6-3/16  | 157 | 1         | —         |
| 8" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 8-1/8   | 206 | 1         | 1         |
| 10" Narrow                | 14-5/8 | 371   | 21-7/8 | 557 | 10-9/16 | 270 | 1         | 1         |
| 12" Narrow                | 14-5/8 | 371   | 21-7/8 | 557 | 12-7/8  | 327 | —         | 1         |
| 2" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 1-3/4   | 43  | 3         | 3         |
| 4" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 4       | 102 | 1         | 1         |
| 6" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 6-3/16  | 157 | 1         | 1         |
| 2" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 1-9/16  | 40  | —         | —         |
| 3" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 2-11/16 | 68  | 1         | 1         |
| 4" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 4       | 102 | —         | 1         |
| 5" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 4-7/8   | 124 | 1         | 1         |
| 6" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 6-3/16  | 126 | —         | —         |
| <b>Total Drawer Count</b> |        |       |        |     |         |     | <b>15</b> | <b>15</b> |

**Colors Available**



|                  |     |             |            |               |                 |               |                     |       |            |                 |        |
|------------------|-----|-------------|------------|---------------|-----------------|---------------|---------------------|-------|------------|-----------------|--------|
|                  | Red | Gloss Black | Royal Blue | Midnight Blue | Electric Orange | Extreme Green | Flat Black Blk Trim | White | Storm Gray | Candy Apple Red | Purple |
|                  | PBO | PC          | PCM        | PDG           | PJK             | PJJ           | —                   | PU    | Blk Trm    | PJH             | PEV    |
| Black out colors | BN  | BFI         | BET        | BQD           | BKH             | BKG           | POT                 | BDC   | PWZ        | BPS             | BEG    |



**KRA2423PU**  
73" 17-Drawer Triple Bank Classic Series Roll Cab



**KCP1422BKG**  
55" 10-Drawer Double Bank Classic Series  
Three Extra Wide Drawer Roll Cab with  
Power Drawer and Speedrawer



**KCP2422BKH**  
55" 9-Drawer Double Bank Classic Series  
Roll Cab with PowerDrawer

**Classic Series Roll Cab Drawer Sizes**

| Specifications            | Width  |       | Depth  |     | Height  |     | KRA2423   | KCP2422  | KCP1422   |
|---------------------------|--------|-------|--------|-----|---------|-----|-----------|----------|-----------|
|                           | inches | mm    | inches | mm  | inches  | mm  | Drawers   | Drawers  | Drawers   |
| 2" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 1-3/4   | 43  | 4         | —        | —         |
| 4" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 4       | 102 | 4         | —        | —         |
| 6" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 6-3/16  | 157 | 1         | —        | —         |
| 8" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 8-1/8   | 206 | —         | 2        | 2         |
| 10" Narrow                | 14-5/8 | 371   | 21-7/8 | 557 | 10-9/16 | 270 | 1         | —        | —         |
| 2" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 1-3/4   | 43  | 3         | 3        | 3         |
| 4" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 4       | 102 | 1         | 1        | 1         |
| 6" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 6-3/16  | 157 | 1         | 1        | 1         |
| 3" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 2-11/16 | 68  | 1         | 1        | 1         |
| 4" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 3-13/16 | 97  | —         | —        | 1         |
| 5" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 4-7/8   | 124 | 1         | 1        | 1         |
| <b>Total Drawer Count</b> |        |       |        |     |         |     | <b>17</b> | <b>9</b> | <b>10</b> |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## CLASSIC SERIES: ROLL CABS



**KRA2407PJK**  
36" Seven-Drawer Single Bank  
Classic Series Roll Cab



**KRA2411PDG**  
55" 11-Drawer Double Bank Classic Series Roll Cab



**KRA2422PC**  
55" 10-Drawer Double-Bank Classic Series Roll Cab

### Classic Series Roll Cab Drawer Sizes

| Specifications            | Width  |       | Depth  |     | Height  |     | KRA2407  | KRA2411   | KRA2422   |
|---------------------------|--------|-------|--------|-----|---------|-----|----------|-----------|-----------|
|                           | inches | mm    | inches | mm  | inches  | mm  | Drawers  | Drawers   | Drawers   |
| 2" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 1-3/4   | 43  | —        | 1         | 1         |
| 4" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 4       | 102 | —        | 2         | 1         |
| 6" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 6-3/16  | 157 | —        | —         | —         |
| 8" Narrow                 | 14-5/8 | 371   | 21-7/8 | 557 | 8-1/8   | 206 | —        | —         | —         |
| 10" Narrow                | 14-5/8 | 371   | 21-7/8 | 557 | 10-9/16 | 270 | —        | 1         | 1         |
| 2" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 1-3/4   | 43  | 3        | 3         | 3         |
| 4" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 4       | 102 | 3        | 1         | 1         |
| 6" Wide                   | 30-1/2 | 775   | 21-7/8 | 557 | 6-3/16  | 157 | 1        | 1         | 1         |
| 3" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 2-11/16 | 68  | —        | —         | 1         |
| 4" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 3-13/16 | 97  | —        | 1         | —         |
| 5" Extra-wide             | 49-1/8 | 1,248 | 21-7/8 | 557 | 4-7/8   | 124 | —        | —         | 1         |
| <b>Total Drawer Count</b> |        |       |        |     |         |     | <b>7</b> | <b>11</b> | <b>10</b> |

#### Colors Available



All Classic Series units are available in nine standard colors. Black Trim/Black Logo, Blackout version (black trim and logo) are available in Red (BN), Gloss Black (BFI), Royal Blue (BET), Midnight Blue (BQD), Extreme Green (BKG), Electric Orange (BKH) and White (BDC). Add suffix to base stock number for special colors.

## KRA2415 Classic 96 Series Top Chests

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 28,348 (464,540)                | 8,174 (52,735)                   | 496 (225)           | 555 (252)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 15                               | 73-3/8 (1,864)      | 24 (609)                 | 28-5/8 (726)        |
| <b>Drawers 2" Narrow</b>        | 4                                | 14-5/8 (371)        | 21-7/8 (557)             | 1-11/16 (43)        |
| <b>4" Narrow</b>                | 6                                | 14-5/8 (371)        | 21-7/8 (557)             | 4 (102)             |
| <b>2" Wide</b>                  | 2                                | 30-1/2 (775)        | 21-7/8 (557)             | 1-11/16 (43)        |
| <b>4" Wide</b>                  | 3                                | 30-1/2 (775)        | 21-7/8 (557)             | 4 (102)             |
| <b>Top Compartment</b>          | —                                | 72 (1,829)          | 23-3/4 (603)             | 5 (125)             |



KRA2415APCM

## KRA2410± Classic 78 Series Top Chests

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                    |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|--------------------|---------------------|
| 21,283 (348,766)                | 6,137 (39,593)                   | 361 (163)           | 417 (189)                |                    |                     |
|                                 | Drawer Description               | Drawers             | Width, inches (mm)       | Depth, inches (mm) | Height, inches (mm) |
| <b>Specifications</b>           |                                  | 10                  | 54-7/16 (1,383)          | 24 (609)           | 28-5/8 (726)        |
| <b>Drawers</b>                  | 2" Narrow                        | 2                   | 14-5/8 (371)             | 21-7/8 (557)       | 1-11/16 (43)        |
|                                 | 4" Narrow                        | 3                   | 14-5/8 (371)             | 21-7/8 (557)       | 4 (102)             |
|                                 | 2" Wide                          | 2                   | 30-1/2 (775)             | 21-7/8 (557)       | 1-11/16 (43)        |
|                                 | 4" Wide                          | 3                   | 30-1/2 (775)             | 21-7/8 (557)       | 4 (102)             |
| <b>Top Compartment</b>          |                                  | —                   | 54 (1,372)               | 23-3/4 (603)       | 5 (125)             |



KRA2410APJJ

## KRA2405± Classic 60 Series Top Chests

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 14,333 (234,875)                | 4,139 (26,703)                   | 222 (101)           | 281 (127)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 5                                | 36-3/8 (924)        | 24 (609)                 | 28-5/8 (726)        |
| <b>Drawers</b>                  | 2                                | 30-1/2 (775)        | 21-7/8 (557)             | 1-11/16 (43)        |
|                                 | 3                                | 30-1/2 (775)        | 21-7/8 (557)             | 4 (102)             |
| <b>Top Compartment</b>          | —                                | 35-3/4 (907)        | 23-3/4 (603)             | 5 (125)             |



KRA2405APB0



- Do not open multiple drawers
- Images may be shown without actual warning labels
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See page xxx for details.
- Read safety precautions on pages W1 to W4

## CLASSIC SERIES: WORKCENTER RISERS



KRA2472PJK

### KRA Series WorkCenter Risers (73" and 54-1/4")

- Two gas cylinders assist in opening the door, making it an effortless operation
- Able to lock up work in progress
- Stainless steel inside walls with Slots-N-Dots™ panels
- Factory assembled unit complete with door
- Work surface required

| Stock Number                     | KRA2472 Riser    | KRA2454 Riser    |
|----------------------------------|------------------|------------------|
| Cubic Inches (cm <sup>3</sup> )  | 23,265 (381,245) | 13,524 (221,619) |
| Square Inches (cm <sup>2</sup> ) | 1,551 (10,006)   | 1,127 (7,271)    |
| Width, inches (mm)               | 73 (1,854)       | 54-7/16 (1,382)  |
| Height, inches (mm)              | 27 (686)         | 27 (686)         |
| Depth, inches (mm)               | 22-7/16 (570)    | 22-7/16 (570)    |

## CLASSIC SERIES: LOCKERS



KRA2403APB0

### KRA2403A Series Lockers

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |   |
|---------------------------------|----------------------------------|---------------------|--------------------------|---|
| 19,975 (327,321)                | 2,748 (17,730)                   | 367 (166)           | 410 (185)                |   |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm)   |
| <b>Specifications</b>           | 3                                | 24-3/4 (635)        | 24 (610)                 | 67-5/8 (1,719)<br>w/ Casters<br>61 (1,549)<br>w/out Casters |
| <b>Drawers</b>                  | 4                                | 20-3/8 (518)        | 19-1/2 (495)             | 3-13/16 (97)  |
| <b>Shelves/Trays</b>            | 3                                | 20-3/8 (518)        | 21-1/2 (546)             | 9-1/2 (241)   |

Ball slide capacity 125 lb per drawer.

## CLASSIC SERIES: END CABINET



KRA2406APB0

### KRA2406A Series End Cab

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 7,574 (124,115)                 | 1,918 (12,374)                   | 220 (99)            | 258 (117)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 6                                | 20-1/4 (514)        | 24 (609)                 | 39-1/4 (997)        |
| <b>Drawers</b>                  | 3                                | 14-5/8 (371)        | 21-7/8 (557)             | 1-11/16 (43)        |
|                                 | 2                                | 14-5/8 (371)        | 21-7/8 (557)             | 4 (102)             |
|                                 | 1                                | 14-5/8 (371)        | 21-7/8 (557)             | 10-9/16 (270)       |

Ball slide capacity 125 lb per drawer.

#### Colors Available



|                  | Red | Gloss Black | Royal Blue | Midnight Blue | Electric Orange | Extreme Green | Flat Black Blk Trim | White | Storm Gray | Candy Apple Red | Purple |
|------------------|-----|-------------|------------|---------------|-----------------|---------------|---------------------|-------|------------|-----------------|--------|
|                  | PBO | PC          | PCM        | PDG           | PJK             | PJJ           | —                   | PU    | Blk Trm    | —               | PEV    |
| Black out colors | BN  | BFI         | BET        | BQD           | BKH             | BKG           | POT                 | BDC   | PWZ        | BPS             | BEG    |



# HERITAGE

NO ONE HAS THE HERITAGE WE DO IN TOOL STORAGE. AND NO ONE PROVIDES AS MUCH PERFORMANCE, INNOVATION AND DURABILITY AT SUCH AN AFFORDABLE PRICE AS OUR HERITAGE SERIES ROLL CABS.

## THE QUALITY YOU EXPECT WITH SOME SURPRISING FEATURES.

From Lock'n Roll<sup>®</sup> drawers that won't drift open to double wall construction and gas-assisted lifts on top chests, the Heritage Series is packed with more features and advantages than you might expect. And in addition to accepting extra storage components as your tool collection grows, it also offers your choice of Red, Gloss Black, Electric Orange, Storm Gray, or Royal Blue color options.

## HERITAGE SERIES: ROLL CABS



KRA5318FPBO



KRA5311FPCM



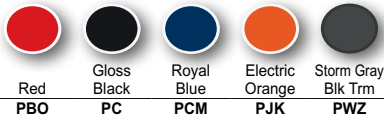
KRA4813FPJK



KRA4107FPWZ

| Roll Cabs        | Specifications                           | KRA5318F              | KRA5311F              | KRA4813F              | KRA4107F              |
|------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Capacity         | Approx. Cubic Inches (cm <sup>3</sup> )  | 19,200 (314,632)      | 20,000 (327,741)      | 14,000 (229,419)      | 15,000 (245,806)      |
|                  | Approx. Square Inches (cm <sup>2</sup> ) | 5,000 (32,258)        | 5,000 (32,258)        | 4,000 (25,806)        | 4,250 (27,419)        |
|                  | Load Capacity, lb (kg)                   | 2,400 (1,089)         | 2,400 (1,089)         | 2,400 (1,089)         | 2,400 (1,089)         |
| Footprint        | Width, inches (mm)                       | 53 (1,397)            | 53 (1,397)            | 40 (1,016)            | 40 (1,016)            |
|                  | Depth, inches (mm)                       | 20 (508)              | 20 (508)              | 20 (508)              | 20 (508)              |
|                  | Height, inches (mm)                      | 38-1/2 (978)          | 38-1/2 (978)          | 38-1/2 (978)          | 38-1/2 (978)          |
| Drawers          | Drawer Banks                             | 3                     | 2                     | 2                     | 1                     |
|                  | Drawer Count                             | 18                    | 11                    | 13                    | 7                     |
|                  | Widest Drawer, inches (mm)               | 35 (880)              | 48 (1,219)            | 35 (880)              | 35 (880)              |
|                  | Slides, lb (kg) (ball bearing)           | 120 (54)              | 120 (54)              | 120 (54)              | 120 (54)              |
|                  | Double Slides                            | Yes (1 drawer)        | Yes (1 drawer)        | Yes (1 drawer)        | Yes (1 drawer)        |
| Extras           | Top Mat                                  | Unidirectional Rubber | Unidirectional Rubber | Unidirectional Rubber | Unidirectional Rubber |
| Weight           | Net Weight, lb (kg)                      | 371 (168)             | 349 (158)             | 297 (135)             | 275 (125)             |
|                  | Shipping Weight, lb (kg)                 | 454 (206)             | 400 (181)             | 327 (148)             | 305 (138)             |
| Optional Add-ons | Top Chest                                | KRA5308F              | KRA5308F              | KRA4114F<br>KRA4810F  | KRA4114F<br>KRA4810F  |
|                  | Side Cab                                 | KRA4820F<br>KRA4830F  | KRA4820F<br>KRA4830F  | KRA4820F<br>KRA4830F  | KRA4820F<br>KRA4830F  |
|                  | Locker                                   | KRA5012F              | KRA5012F              | KRA5012F              | KRA5012F              |
|                  | Middle Drawer Section                    | —                     | —                     | KRA4860F              | KRA4860F              |
|                  | Hardwood Top                             | KRWT5300              | KRWT5300              | KRWT40F               | KRWT40F               |
|                  | Stainless steel Top                      | KRSST5300             | KRSST5300             | KRSST40F              | KRSST40F              |

**Colors Available**



Heritage Series units are available in five standard colors. Blackout versions (black trim and logo) are available in Red (BN), Gloss Black (BF1), Royal Blue (BET), Electric Orange (BKH), and Storm Gray (PWZ). Add suffix to base stock number for special colors.

## HERITAGE SERIES: ROLL CABS



**KRA4008FPCM**



**KRA2007FPC**



**KRA2005FPB0**

| Roll Cabs        | Specifications                           | KRA4008F              | KRA2007F              | KRA2005F              |
|------------------|--|-----------------------|-----------------------|-----------------------|
| Capacity         | Approx. Cubic Inches (cm <sup>3</sup> )  | 10,000 (163,871)      | 10,000 (163,871)      | 10,000 (163,871)      |
|                  | Approx. Square Inches (cm <sup>2</sup> ) | 3,000 (19,355)        | 2,800 (18,064)        | 2,400 (15,484)        |
|                  | Load Capacity, lb (kg)                   | 1,300 (590)           | 1,100 (499)           | 1,100 (499)           |
| Footprint        | Width, inches (mm)                       | 26 (660)              | 26 (660)              | 26 (660)              |
|                  | Depth, inches (mm)                       | 20 (508)              | 20 (508)              | 20 (508)              |
|                  | Height, inches (mm)                      | 37 (940)              | 37 (940)              | 37 (940)              |
| Drawers          | Drawer Banks                             | 1                     | 1                     | 1                     |
|                  | Drawer Count                             | 8                     | 7                     | 5                     |
|                  | Widest Drawer, inches (mm)               | 23 (584)              | 23 (584)              | 23 (584)              |
|                  | Slides, lb (kg) (ball bearing)           | 120 (54)              | 100 (45)              | 100 (45)              |
|                  | Double Slides                            | Optional              | Optional              | Optional              |
| Extras           | Top Mat                                  | Unidirectional Rubber | Unidirectional Rubber | Unidirectional Rubber |
| Weight           | Net Weight, lb (kg)                      | 183 (83)              | 170 (77)              | 162 (73)              |
|                  | Shipping Weight, lb (kg)                 | 252 (114)             | 239 (108)             | 231 (105)             |
| Optional Add-ons | Top Chest                                | KRA4014F              | KRA2055<br>KRA4014F   | KRA2055<br>KRA4014F   |
|                  | Side Cab                                 | —                     | —                     | —                     |
|                  | Locker                                   | —                     | —                     | —                     |
|                  | Middle Drawer Section                    | KRA2063               | KRA2063               | KRA2063               |
|                  | Hardwood Top                             | KRWT26F               | KRWT26F               | KRWT26F               |
|                  | Stainless steel Top                      | —                     | —                     | —                     |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## HERITAGE SERIES: ROLL CABS



**KRA5318FPBO**  
53" 18-Drawer Triple Bank  
Heritage Series Roll Cab



**KRA5311FPCM**  
53" 11-Drawer Double Bank  
Heritage Series Roll Cab



**KRA4813FPJK**  
40" 13-Drawer Double Bank  
Heritage Series Roll Cab

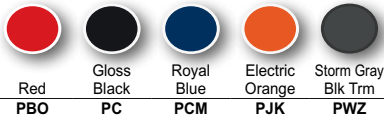


**KRA4107FPWZ**  
40" Seven-Drawer Single Bank  
Heritage Series Roll Cab

### Heritage Series Roll Cab Drawer Sizes

| Specifications            | Width   |       | Depth  |     | Height |     | KRA5318F  | KRA5311F  | KRA4813F  | KRA4107F |
|---------------------------|---------|-------|--------|-----|--------|-----|-----------|-----------|-----------|----------|
|                           | inches  | mm    | inches | mm  | inches | mm  | Drawers   | Drawers   | Drawers   | Drawers  |
| 2" Narrow                 | 11-3/16 | 285   | 17-1/2 | 445 | 1-5/8  | 41  | 2         | 3         | 4         | —        |
| 4" Narrow                 | 11-3/16 | 285   | 17-1/2 | 445 | 3-5/8  | 92  | 7         | 1         | 1         | —        |
| 8" Narrow                 | 11-3/16 | 285   | 17-1/2 | 445 | 7-5/8  | 193 | 1         | —         | —         | —        |
| 12" Narrow                | 11-3/16 | 285   | 17-1/2 | 445 | 11-5/8 | 295 | 1         | 1         | 1         | —        |
| 2" Wide                   | 21-7/16 | 544   | 17-1/2 | 445 | 1-5/8  | 41  | 2         | —         | 2         | —        |
| 2" Extra-wide             | 34-3/4  | 881   | 17-1/2 | 445 | 1-5/8  | 41  | —         | 1         | —         | 2        |
| 4" Wide                   | 21-7/16 | 544   | 17-1/2 | 445 | 3-5/8  | 92  | 3         | —         | 3         | —        |
| 4" Extra-wide             | 34-3/4  | 881   | 17-1/2 | 445 | 3-5/8  | 92  | 1         | 3         | 1         | 4        |
| 8" Wide                   | 21-7/16 | 544   | 17-1/2 | 445 | 7-5/8  | 193 | 1         | —         | 1         | —        |
| 8" Extra-wide             | 34-3/4  | 881   | 17-1/2 | 445 | 7-5/8  | 193 | —         | 1         | —         | 1        |
| 6" Super-wide             | 47-3/4  | 1,214 | 17-1/2 | 445 | 5-9/16 | 141 | —         | 1         | —         | —        |
| <b>Total Drawer Count</b> |         |       |        |     |        |     | <b>18</b> | <b>11</b> | <b>13</b> | <b>7</b> |

#### Colors Available



Red PBO    Gloss Black PC    Royal Blue PCM    Electric Orange PJK    Storm Gray Blk Trm PWZ

Heritage Series units are available in five standard colors. Blackout versions (black trim and logo) are available in Red (BN), Gloss Black (BFI), Royal Blue (BET), Electric Orange (BKH), and Storm Gray (PWZ). Add suffix to base stock number for special colors.

## HERITAGE SERIES: ROLL CAB



**KRA4008FPC**  
26" Eight-Drawer Single Bank  
Heritage Series Roll Cab



**KRA2007FPC**  
26" Seven-Drawer Single Bank  
Heritage Series Roll Cab



**KRA2005FPB0**  
26" Five-Drawer Single Bank  
Heritage Series Roll Cab

### Heritage Series Roll Cab Drawer Sizes

| Specifications            | Width  |     | Depth  |     | Height |     | KRA4008F | KRA2007F | KRA2005F |
|---------------------------|--------|-----|--------|-----|--------|-----|----------|----------|----------|
|                           | inches | mm  | inches | mm  | inches | mm  | Drawers  | Drawers  | Drawers  |
| 2" Wide                   | 21-3/8 | 544 | 17-1/2 | 445 | 1-5/8  | 41  | 4        | 2        | —        |
| 4" Wide                   | 21-3/8 | 544 | 17-1/2 | 445 | 3-5/8  | 92  | 3        | 4        | 4        |
| 8" Wide                   | 21-3/8 | 544 | 17-1/2 | 445 | 7-5/8  | 193 | 1        | 1        | —        |
| 12" Wide                  | 21-3/8 | 544 | 17-1/2 | 445 | 11-5/8 | 295 | —        | —        | 1        |
| <b>Total Drawer Count</b> |        |     |        |     |        |     | <b>8</b> | <b>7</b> | <b>5</b> |

## HERITAGE SERIES: TOP CHESTS

### KRA5308 Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 12,970 (212,540)                | 4,191 (27,039)                   | 224 (102)           | 269 (122)                |                     |
| Specifications                  | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
|                                 | 8                                | 53-3/8 (1,356)      | 19-13/16 (503)           | 19-3/8 (493)        |
| Drawers                         | 2                                | 11-1/8 (283)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 2                                | 11-1/8 (283)        | 17-1/2 (445)             | 3-5/8 (92)          |
|                                 | 2                                | 34-3/4 (881)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 2                                | 34-3/4 (881)        | 17-1/2 (445)             | 3-5/8 (92)          |
| Top Compartment                 | —                                | 52-3/8 (1,328)      | 18-3/4 (475)             | 4-5/8 (118)         |



**KRA5308FPB0**



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# HERITAGE SERIES: TOP CHESTS



**KRA5315FPCM**

## KRA5315F Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 10,758 (176,324)                | 4,065 (26,227)                   | 244 (110)           | 298 (135)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 15                               | 53-3/8 (1,356)      | 19-13/16 (503)           | 19-7/16 (494)       |
| <b>Drawers</b>                  | 6                                | 11-1/8 (283)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 4                                | 11-1/8 (283)        | 17-1/2 (445)             | 3-5/8 (91)          |
|                                 | 2                                | 21-3/8 (542)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 2                                | 21-3/8 (542)        | 17-1/2 (445)             | 3-5/8 (91)          |
|                                 | 1                                | 34-3/4 (881)        | 17-1/2 (445)             | 3-5/8 (91)          |



**KRA4810FPJK**

## KRA4810F Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 9,359 (153,370)                 | 3,026 (19,520)                   | 196 (89)            | 226 (103)                |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 8                                | 40 (1,016)          | 19-13/16 (503)           | 19-7/16 (494)       |
| <b>Drawers</b>                  | 2                                | 11-1/8 (283)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 2                                | 11-1/8 (283)        | 17-1/2 (445)             | 3-5/8 (91)          |
|                                 | 2                                | 21-3/8 (542)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 2                                | 21-3/8 (542)        | 17-1/2 (445)             | 3-5/8 (91)          |
|                                 | 2                                | 21-3/8 (542)        | 17-1/2 (445)             | 3-5/8 (91)          |
| <b>Top Compartment</b>          | —                                | 39-7/8 (1,013)      | 18-1/2 (475)             | 4-3/4 (120)         |



**KRA4114FPCM**

## KRA4114F Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 9,746 (159,710)                 | 3,178 (20,500)                   | 183 (83)            | 213 (97)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 4                                | 40 (1,016)          | 19-13/16 (503)           | 19-7/16 (494)       |
| <b>Drawers</b>                  | 2                                | 34-3/4 (881)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 2                                | 34-3/4 (881)        | 17-1/2 (445)             | 3-5/8 (91)          |
| <b>Top Compartment</b>          | —                                | 39-7/8 (1,014)      | 18-3/4 (475)             | 4-3/4 (120)         |

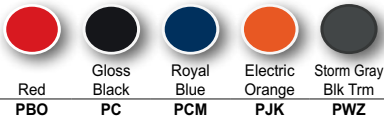


**KRA4014FPC**

## KRA4014F Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 6,180 (101,270)                 | 1,995 (12,870)                   | 119 (54)            | 142 (64)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 4                                | 26-3/4 (678)        | 19-13/16 (503)           | 19-7/16 (494)       |
| <b>Drawers</b>                  | 2                                | 21-3/8 (542)        | 17-1/2 (445)             | 1-5/8 (41)          |
|                                 | 2                                | 21-3/8 (542)        | 17-1/2 (445)             | 3-5/8 (91)          |
| <b>Top Compartment</b>          | —                                | 26-5/8 (675)        | 18-3/4 (475)             | 4-3/4 (120)         |

**Colors Available**



Heritage Series units are available in five standard colors. Blackout versions (black trim and logo) are available in Red (BN), Gloss Black (BF), Royal Blue (BET), Electric Orange (BKH), and Storm Gray (PWZ). Add suffix to base stock number for special colors.

## HERITAGE SERIES: TOP CHESTS



KRA2055FPB0

JLS

### KRA2055F Series Top Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 4,452 (72,955)                  | 1,814 (11,703)                   | 90 (41)             | 110 (50)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 5                                | 26 (660)            | 14-3/4 (373)             | 17-3/16 (436)       |
| <b>Drawers</b>                  | 4                                | 22-1/8 (559)        | 13-1/8 (332)             | 1-7/8 (47)          |
|                                 | 1                                | 22-1/8 (559)        | 13-1/8 (332)             | 3-1/8 (79)          |
| <b>Top Compartment</b>          | —                                | 25-13/16 (655)      | 13-3/4 (348)             | 3-7/8 (97)          |



KRA4059FPC

JLS

### KRA4059F Series Tool Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 4,288 (70,268)                  | 1,753 (11,309)                   | 92 (42)             | 117 (53)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 9                                | 26 (660)            | 14-3/4 (373)             | 17-3/16 (436)       |
| <b>Drawers</b>                  | 6                                | 6-11/16 (169)       | 13-1/8 (332)             | 1-3/4 (44)          |
|                                 | 2                                | 22-1/8 (559)        | 13-1/8 (332)             | 1-7/8 (47)          |
|                                 | 1                                | 22-1/8 (559)        | 13-1/8 (332)             | 3-1/8 (79)          |
| <b>Top Compartment</b>          | —                                | 25-13/16 (655)      | 13-3/4 (348)             | 3-7/8 (97)          |

## HERITAGE SERIES: DRAWER SECTIONS



KRA4860FPB0

JLS

### KRA4860F Series Drawer Sections

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 3,112 (50,997)                  | 1,216 (7,845)                    | 115 (52)            | 145 (66)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 2                                | 40 (1,016)          | 19-13/16 (503)           | 9-13/16 (249)       |
| <b>Drawers</b>                  | 1                                | 34-11/16 (881)      | 17-9/16 (445)            | 1-5/8 (41)          |
|                                 | 1                                | 34-11/16 (881)      | 17-9/16 (445)            | 3-5/8 (91)          |



KRA2063FPC

JLS

### KRA2063F Series Drawer Sections

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 1,792 (29,365)                  | 1,124 (7,252)                    | 70 (22)             | 94 (43)                  |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 3                                | 26 (660)            | 19-13/16 (503)           | 9-13/16 (249)       |
| <b>Drawers</b>                  | 3                                | 21-3/8 (544)        | 17-9/16 (445)            | 1-5/8 (41)          |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## HERITAGE SERIES: LOCKERS



**KRA5012FPB0**

### KRA5012F Series Lockers

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 10,177 (166,770)                | 1,480 (9,548)                    | 115 (52)            | 145 (66)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 4                                | 16-1/2 (419)        | 19-13/16 (503)           | 51-1/2 (1,308)      |
| <b>Drawers</b>                  | 2                                | 11-3/16 (288)       | 17-9/16 (445)            | 1-5/8 (41)          |
|                                 | 2                                | 11-3/16 (288)       | 17-9/16 (445)            | 3-5/8 (92)          |
| <b>Shelves</b>                  | 3                                | 12-3/8 (315)        | 18-3/4 (475)             | 11-3/4 (297)        |

## HERITAGE SERIES: END CABINETS



**KRA4820FPJK**

### KRA4820F Series End Cabs

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|--------------------------|---------------------|
| 5,094 (83,476)                  | 1,174 (7,574)                    | 117 (53)            | 147 (67)                 |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)       | Height, inches (mm) |
| <b>Specifications</b>           | 6                                | 16-1/2 (419)        | 19-13/16 (503)           | 32-1/8 (815)        |
| <b>Drawers</b>                  | 2                                | 11-1/8 (283)        | 17-9/16 (445)            | 1-9/16 (39.7)       |
|                                 | 3                                | 11-1/8 (283)        | 17-9/16 (445)            | 3-1/2 (88.9)        |
|                                 | 1                                | 11-1/8 (283)        | 17-9/16 (445)            | 11-3/4 (297)        |



**KRA4830FPB0**

### KRA4830F Series End Cabs

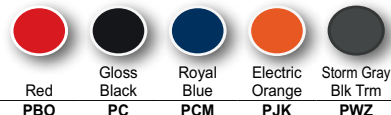
| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Shipping Weight, lb (kg) |
|---------------------------------|----------------------------------|---------------------|--------------------------|
| 8,426 (138,080)                 | 843 (5,439)                      | 76 (35)             | 97 (44)                  |
|                                 | Width, inches (mm)               | Depth, inches (mm)  | Height, inches (mm)      |
| <b>Specifications</b>           | 16-1/2 (419)                     | 19-13/16 (503)      | 32-5/16 (820)            |
| <b>Shelves (2)</b>              | 15-1/16 (381)                    | 18-5/8 (473)        | —                        |
| <b>Lower Compartment (1)</b>    | 15-1/16 (381)                    | 18-5/8 (473)        | —                        |

### Optional Add-ons

|                | Stock No.       | Square Inches (cm <sup>2</sup> ) |
|----------------|-----------------|----------------------------------|
| <b>Drawers</b> | <b>5012L71*</b> | 2 (5.8)                          |
|                | <b>5012L72*</b> | 4 (10.16)                        |

\*Slide out 8-05288ALRMS\* required

#### Colors Available



Heritage Series units are available in five standard colors. Blackout versions (black trim and logo) are available in Red (BN), Gloss Black (BF1), Royal Blue (BET), Electric Orange (BKH), and Storm Gray (PWZ). Add suffix to base stock number for special colors.



# MOBILE SOLUTIONS

WHEREVER YOU GO BEYOND THE BAY, OUR MOBILE SOLUTIONS CAN FOLLOW. OUR 40" CARTS ARE EQUIPPED WITH 6" X 2" VIBRATION-RESISTANT CASTERS THAT ROLL EASILY OVER SMALL OBSTACLES. AND SIDE PANEL ORGANIZERS, A POWERSTRIP, SPEEDDRAWER AND A VARIETY OF WORK SURFACES AND LID OPTIONS GUARANTEE PRODUCTIVITY WHEREVER THE JOB TAKES YOU.

## MOBILE STORAGE ANCHORED WITH PREMIUM FEATURES.

Lockable wheels, sturdy bumpers, rolled drawer edges, radiused corners and Lock'n Roll® or InPulse™ drawers are just some of the advantages that make this tool storage as well appointed as it is mobile.

**MOBILE SOLUTIONS: WORKSTATION**



**KEMW361B1PBO**

**KEMW361 EPIQ Series Mobile Workstation**

- Stainless steel work top (37 x 30") holds up to 1,000 lb
- Large 30" deep case
- (5) large 30" EPIQ InPulse™ drawers: (4) 4" drawers and (1) 6" drawer
- Swivel casters have rigid locking capability with a strong brake system
- EPIQ case design: top and bottom panel, and side walls absorb heaviest load and impact
- Includes color-matched slotted accessory wall for mounting of shelves and tool holders

| Cubic Inches (cm³) | Square Inches (cm²) | Net Weight, lb (kg) | Load Capacity, lb (kg) |
|--------------------|---------------------|---------------------|------------------------|
| 18,136 (297,195)   | 4,134 (26,691)      | 448 (203)           | 2,000 (907)            |
| <b>Width</b>       |                     | <b>Depth</b>        |                        |
| <b>Drawers</b>     | <b>inches</b>       | <b>mm</b>           | <b>inches</b>          |
| <b>4</b>           | 30-1/16             | 764                 | 27-1/2                 |
| <b>1</b>           | 30-1/16             | 764                 | 27-1/2                 |
| <b>Overall</b>     | 37                  | 940                 | 30                     |

Five Total Drawers

**KEMW361B1PBO EPIQ Series Mobile Workcenter**

Colors Available

|     |             |            |              |                 |               |               |               |            |                 |       |            |
|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
|     |             |            |              |                 |               |               |               |            |                 |       |            |
| Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
| PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | POT        | PJH             | PU    | PWZ        |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**ROLL CARTS**



**KEMN361B1PBO**

**KEMN361 EPIQ Series SideKIQ™ Roll Carts**

- Super capacity in a maneuverable footprint—37" wide and 30" deep
- Same 48" height as the EPIQ Roll Cab
- Deep 8" top compartment is massive compared to everything else out there—for large prybars, chargers, diagnostics, etc.
- (4) 7" ISO-Ride+™ swivel casters—all can be locked into rigid position when desired
- InPulse™ drawer retention system is intuitive to use—more than three times stronger than any other drawer retention system
- Six heavy-duty drawers hold 227 lb per drawer
- ISO-Ride+™ torsion puck system anchors strongest, most stable suspension system in the industry
- Casters are designed to carry 2,000 lb—each will provide a lifetime of rugged use
- Lid styling and height blend with any EPIQ Roll Cab
- Radiused trim and inset drawers—no sharp corners

| Cubic Inches (cm³)     | Square Inches (cm²) | Net Weight, lb (kg) | Load Capacity, lb (kg) |
|------------------------|---------------------|---------------------|------------------------|
| 26,125 (428,112)       | 6,027 (38,884)      | 498 (227)           | 2,000 (907)            |
| <b>Width</b>           |                     | <b>Depth</b>        |                        |
| <b>Drawers</b>         | <b>inches</b>       | <b>mm</b>           | <b>inches</b>          |
| <b>2</b>               | 30-1/16             | 764                 | 27-1/2                 |
| <b>3</b>               | 30-1/16             | 764                 | 27-1/2                 |
| <b>1</b>               | 30-1/16             | 764                 | 27-1/2                 |
| <b>Top Compartment</b> | 36                  | 914                 | 29                     |
| <b>Overall</b>         | 37                  | 940                 | 30                     |

Six Total Drawers

**KEMN361B1PBO SideKIQ™ EPIQ Series Roll Cart**

Colors Available

|     |             |            |              |                 |               |               |               |            |                 |       |            |
|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|------------|-----------------|-------|------------|
|     |             |            |              |                 |               |               |               |            |                 |       |            |
| Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black | Candy Apple Red | White | Storm Gray |
| PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | POT        | PJH             | PU    | PWZ        |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## KRSC242 Series Heavy-Duty Shop Cart (36")

- Includes KAPS5 power strip with (5) AC and (2) USB ports for secure charging in top compartment
- Includes KAPS5BRKT Cord Wrap Bracket to manage attached 15' cord
- Includes SpeedDrawer for small parts organization
- Includes a side panel accessory that can be mounted to handle holes; use on either side to hold shelves, power tool racks and a variety of tool holders
- Top compartment also provides openings to store long prybars vertically
- Unit is 24" deep for more storage capacity
- Lockable top section is 7" deep, allowing you to secure any work in progress
- Welded cart body yields lasting strength
- Choose from two durable flip lid materials: stainless steel or truck bed liner
- Bumpers have a hard interior but soft exterior to reduce damage to other objects—an exclusive feature
- Six drawers: (2) 2" deep, (2) 4" deep and (2) 6" deep
- Four monoprene casters for better maneuverability and less vibration



KRSC242PB01

| Specifications                   | KRSC242 Series   |
|----------------------------------|------------------|
| Cubic Inches (cm <sup>3</sup> )  | 21,979 (360,171) |
| Square Inches (cm <sup>2</sup> ) | 4,880 (31,483)   |
| Width, inches (mm)               | 36 (914)         |
| Height, inches (mm)              | 46 (1,168)       |
| Depth, inches (mm)               | 24 (610)         |
| Load Capacity, lb (kg)           | 2,400 (1,089)    |
| Lid Capacity, lb (kg)            | 150 (68)         |
| Casters                          | 6" x 2"          |
| Net Weight, lb (kg)              | 318 (144)        |
| Shipping Weight, lb (kg)         | 373 (172)        |

## KRSC242PB01 36" Six-Drawer Heavy-Duty Stainless Steel Top Shop Cart

### Colors Available

|                      | Red  | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Midnight Blue | Flat Black Blk Trim | Candy Apple Red | White | Storm Gray Blk Trim | Supersonic Blue |
|----------------------|------|-------------|------------|--------------|-----------------|---------------|---------------|---------------------|-----------------|-------|---------------------|-----------------|
| Chrome Trim and Logo | PBO1 | PC1         | PCM1       | PES1         | PJK1            | PJJ1          | PDG1          | POT1                | PJH1            | PU1   | PWZ1                | ZBS1            |
| Black Trim and Logo  | BN7  | BF17        | BET7       | BDO7         | BKH7            | BKG7          | BQE7          | POT7                | BPS7            | BDC7  | PWZ7                | BCD7            |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## KRSC46 Series Roll Carts

- The one-piece fully welded body is designed for maximum strength
- Switch out two drawers (4 and 8") to add one 12" drawer, or add two 2" drawer to replace 4" drawer
- 7" deep top compartment
- Top compartment will also store battery charger and can be used as a charging station while locked
- Drawers are 35" wide with 120 lb capacity per drawer; up to 240 lb with double slides
- Round key lock for interchangeability and larger cam for security
- Accessory panels can be added to both sides providing slot pattern for accessories; KRSC404APV panel will allow end cab to be hung from side.
- Top compartment accommodates KAPS5 Power Strip and KAPS5BRKT Cord Wrap with no extra drilling
- Snap-on® KRA-style drawers feature the Lock 'N Roll® system; drawers will not drift open
- Same paint and steel as Snap-on® tool boxes, both sourced and built in the USA
- Optional JKRR46GW55 Rubber Work Mat (not included)



KRSC46HPB0

| Specifications  | Cubic Inches (cm <sup>3</sup> ) |                    | Square Inches (cm <sup>2</sup> ) |                     | Net Weight, lb (kg) |                    | Load Capacity, lb (kg) |                     |
|-----------------|---------------------------------|--------------------|----------------------------------|---------------------|---------------------|--------------------|------------------------|---------------------|
|                 | Drawers                         | Width, inches (mm) | Depth, inches (mm)               | Height, inches (mm) | Drawers             | Width, inches (mm) | Depth, inches (mm)     | Height, inches (mm) |
|                 | 6                               | 40 (1,029)         | 20 (508)                         | 46 (1,168)          | 20,783 (340,572)    | 4,392 (28,335)     | 265 (120)              | 2400 (1089)         |
| Drawers         | 5                               | 34-3/4 (882)       | 17-1/2 (444)                     | 3-5/8 (92)          |                     |                    |                        |                     |
|                 | 1                               | 34-3/4 (882)       | 17-1/2 (444)                     | 7-5/8 (193)         |                     |                    |                        |                     |
| Top Compartment | —                               | 39-13/16 (1,011)   | 18-13/16 (478)                   | 7 (178)             |                     |                    |                        |                     |

## KRSC46HPB0 40" Six-Drawer Roll Cart

### Colors Available

|                      | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Midnight Blue | Flat Black Blk Trim | Candy Apple Red | White | Storm Gray Blk Trim | Supersonic Blue |
|----------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------------|-----------------|-------|---------------------|-----------------|
| Chrome Trim and Logo | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PDG           | —                   | PJH             | PU    | —                   | ZBS             |
| Black Trim and Logo  | BN  | BFI         | BET        | BDO          | BKH             | BKG           | BQD           | POT                 | BPS             | BDC   | PWZ                 | BCD             |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## MOBILE SOLUTIONS: ROLL CARTS



**KRSC430APJJ1**

| Specifications                   | KRSC430A Series    |
|----------------------------------|--------------------|
| Cubic Inches (cm <sup>3</sup> )  | 20,783 (340,572)   |
| Square Inches (cm <sup>2</sup> ) | 4,392 (28,335)     |
| Width, inches (mm)               | 40 (1,016)         |
| Height, inches (mm)              | 46 (1,168)         |
| Depth, inches (mm)               | 20 (508)           |
| Load Capacity, lb (kg)           | 2,400 (1,089)      |
| Lid Capacity, lb (kg)            | 120 (54) each side |
| Drawers                          | 8                  |
| Casters                          | 6" x 2"            |
| Net Weight, lb (kg)              | 262 (112)          |
| Shipping Weight, lb (kg)         | 312 (135)          |

### KRSC430A Series Roll Cart

- Features a split top that slides out from the center to provide total access to a generous 7" deep top compartment
- Cart body is entirely welded double wall design, not bolted, for lasting strength
- Two extra sliding drawers located under the sliding lid provide excellent working access to tools
- 4" SpeedDrawer included for small parts organization
- Rolled edges and a rear flange on drawers provide a solid feel to drawers under load
- Two shot-molded rubber/nylon corner bumpers protect nearby objects, and provide long-lasting brand identification and professional appearance
- Full-length two point locking lid and separate manual rear lock rod for drawers
- Extra-deep 7" top compartment
- Organize large sockets, use as a securable charging station for power tool batteries—designed to accommodate optional KAPS5 power strip
- A massive 8" deep bottom drawer is 35" wide will hold large bulky items
- Interchangeable drawers—28" of potential drawer space, any combination of 2" (optional), 4, 8 and 12" (optional) drawers can be placed in any order
- The dual stainless surfaces are embossed inward around the edges to help keep tools and parts from rolling off
- Soft safety bumpers on each corner help protect vehicles and shop equipment
- More than 5" of depth beneath sliding drawers in top compartment—plenty of room for chargers and vertical socket storage
- Optional top work mat set available (JKRR430W55A; available in six colors)
- Choose stainless steel or black bed liner coated work surface

### KRSC430APJJ1 40" Sliding Lid Eight-Drawer Stainless Lid Shop Cart

#### Colors Available

|                      |      |      |      |      |      |      |      |      |      |      |
|----------------------|------|------|------|------|------|------|------|------|------|------|
|                      |      |      |      |      |      |      |      |      |      |      |
| Chrome Trim and Logo | PBO1 | PC1  | PCM1 | PES1 | PJK1 | PJJ1 | PDG1 | POT1 | PJH1 | ZBS1 |
| Black Trim and Logo  | BN7  | BFI7 | BET7 | BDO7 | BKH7 | BKG7 | BQD7 | BOT7 | BPS7 | BCD  |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**KRSC323PBO**

### KRSC323 Series Roll Cart

- 2" drawer, 4" drawer and extra deep 6" drawer for power tools and diagnostics
- Manufactured in the USA at our Algona, Iowa Plant and tested to a lifetime quality standard
- Fully welded double-wall construction will not weaken over time like bolt together carts
- Stainless steel bottom storage tray holds up to hard use from heavy bulk items
- 7" deep top compartment with vertical prybar storage
- 16" open space beneath drawers—access for large items in bottom
- 5 x 2" vibration-resistant casters smooth cart ride
- Prybar and screwdriver shanks are held securely between walls

#### OPTIONS:

- Top compartment is set up with knock out for optional power and charging unit (KAPS5, KAPS5BRKT)
- Side Shelf: KRA412G Folding Shelf
- Side Storage: KA1734 Side Panel slotted for tool racks, parts bins, shelves, power tool holders
- Reconfigure the Drawers: Replace a 4" drawer with (2) 2" drawers (326AJL81)
- JKRR33W55A Rubber Work Surface with raised edges

| Cubic Inches (cm <sup>3</sup> )                          | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |
|--|----------------------------------|---------------------|------------------------|
| 10,219 (167,459); plus 10,000 (163,871) bottom tray area | 2,110 (13,613) plus bottom tray  | 180 (82)            | 1,200 (544)            |
|  | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     |
|  | 3                                | 32 (813)            | 20-1/2 (520)           |
|  |                                  | Height, inches (mm) |                        |
|  |                                  | 43 (1,092)          |                        |

### KRSC323PBO 32" Three-Drawer Roll Cart

#### Colors Available

|     |             |            |               |               |            |
|-----|-------------|------------|---------------|---------------|------------|
|     |             |            |               |               |            |
| Red | Gloss Black | Royal Blue | Extreme Green | Midnight Blue | Storm Gray |
| PBO | Black Trim  | Black Trim | Black Trim    | Black Trim    | Black Trim |
|     | BFI         | PCM        | BKG           | PDG           | PWZ        |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## KRSC326 Series Roll Cart

- High-functioning bumper system—bumpers on all four corners are strong and comfortable enough to be used as handles, yet soft enough to safely approach customer vehicles
- Comes fully assembled from the factory, including bumpers, casters and aluminum drawer trim
- Fully welded double side walls
- Stronger lock and cam round key lock for interchangeability and larger cam for security

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg)       | Load Capacity, lb (kg)    |
|---------------------------------|----------------------------------|---------------------------|---------------------------|
| 16,847 (276,073)                | 3,533 (22,794)                   | 157 (71.2)                | 1,200 (544)               |
|                                 | <b>Drawers</b>                   | <b>Width, inches (mm)</b> | <b>Depth, inches (mm)</b> |
| <b>Specifications</b>           | 6                                | 32-11/16 (830)            | 20-1/2 (520)              |
| <b>Drawers</b>                  | 5                                | 27-1/8 (689)              | 17-1/2 (445)              |
|                                 | 1                                | 27-1/8 (689)              | 17-1/2 (445)              |
| <b>Top Compartment</b>          | —                                | 32 (812)                  | 18-13/16 (478)            |
|                                 |                                  |                           | 6-11/16 (170)             |



KRSC326FPCM

### KRSC326FPCM 32" Six-Drawer Compact Roll Cart

#### Colors Available

|                      | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Midnight Blue | Flat Black Blk Trim | Candy Apple Red | White | Storm Gray Blk Trim | Supersonic Blue |
|----------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------------|-----------------|-------|---------------------|-----------------|
| Chrome Trim and Logo | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PDG           | —                   | PJH             | PU    | —                   | ZBS             |
| Black Trim and Logo  | BN  | BFI         | BET        | BDO          | BKH             | BKG           | BQD           | POT                 | BPS             | BDC   | PWZ                 | BCD             |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## KRSC343 Series Roll Cart

- 6 Drawer Sliding Lid Cart
- Cart body is entirely welded double wall design, not bolted, for lasting strength
- Almost 17,000 cubic inches of tool storage
- Lid surface is powder coated to match color of cart
- Surfaces slide independently on 120 lb capacity ball bearing drawer slides
- Extra-deep 7" top compartment
- Organize large sockets, use as a securable charging station for power tool batteries
- Designed to accommodate optional KAPS4, KAPS5 and cord wrap KAPS5BRKT
- Prybar/screwdriver storage area inside top compartment
- Full-length 2-point locking lid and separate manual rear lock rod for drawers; more secure than single-point lock used by many other manufacturers
- Independent drawer locking switch inside the top compartment
- Maneuverable 32" width and quiet; low-vibration rolling
- (2) shot-molded rubber/nylon corner bumpers help protect nearby objects and provide long-lasting brand identification and professional appearance
- Rolled edges and a rear flange on drawers provide a solid feel to drawers under load
- Spot welds 3–4" apart



KRSC343PJK

| Cubic Inches (cm <sup>3</sup> )   | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg)       | Ball Slide Capacity, lb (kg) per drawer |
|-----------------------------------|----------------------------------|---------------------------|---|
| 16,847 (276,078)                  | 3,533 (22,794)                   | 157 (71.2)                | 120 lbs (95kg)                          |
|                                   | <b>Drawers</b>                   | <b>Width, inches (mm)</b> | <b>Depth, inches (mm)</b>               |
| <b>4" Wide Drawer</b>             | 5                                | 27-1/8 (688)              | 17-1/2 (445)                            |
| <b>8" Wide Drawer</b>             | 1                                | 27-1/8 (688)              | 17-1/2 (445)                            |
| <b>Top Compartment</b>            | —                                | 26 (660)                  | 19-1/8 (485)                            |
| <b>Prybar/Screwdriver Section</b> | 2                                | 5 (127)                   | 19-1/8 (485)                            |
| <b>Overall Totals</b>             | 6                                | 32 (812)                  | 20-1/2 (521)                            |
|                                   |                                  |                           | 46 (1,168)                              |

### KRSC343PJK 32" Six-Drawer Compact Split Lid Cart

#### Colors Available

|                      | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Midnight Blue | Flat Black Blk Trim | Candy Apple Red | White | Storm Gray Blk Trim | Supersonic Blue |
|----------------------|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------------|-----------------|-------|---------------------|-----------------|
| Chrome Trim and Logo | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PDG           | —                   | PJH             | PU    | —                   | ZBS             |
| Black Trim and Logo  | BN  | BFI         | BET        | BDO          | BKH             | BKG           | BQD           | POT                 | BPS             | BDC   | PWZ                 | BCD             |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## MOBILE SOLUTIONS: ROLL CARTS



KRBC60T

### KRBC60T Welding Workstation

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|
| 19,804                          | 1,949                            | 295 lb              | 1,000 (453)            |                     |
| Specifications                  | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |
|                                 | 3                                | 50-3/4 (1,289)      | 25-3/4 (654)           | 37-1/2 (352)        |
| Top Compartment                 | —                                | 26 (660.4)          | 19-1/8 (485.8)         | 6-1/2 (165.1)       |

#### KRBC60T Welding Workstation Cart

- 3/8" steel-plate work surface
- Four dual-purpose mounting locations serve as accessory mount and wand holder
- HD textured black matte finish
- Large locking compartment stores (2) welders
- Slots-N-Dots™ rear panel accommodates many accessories
- (3) drawers with liners and high-quality roller bearing slides
- (3) large cord hooks included; extra hook kits available
- 50-3/4" W x 25-3/4" D x 37-1/2" H
- 1,000 lb load capacity



KRP1HD

### KRP1HD Series Polymer Roll Cart

|                | Net Weight, lb (kg) |                    | Load Capacity, lb (kg) |                     |
|----------------|---------------------|--------------------|------------------------|---------------------|
|                | 37 (16.8)           |                    | 320 (145)              |                     |
| Specifications | 1                   | Width, inches (mm) | Depth, inches (mm)     | Height, inches (mm) |
| Top Tray       | 1                   | 43 (1,092)         | 21-3/4 (552)           | 38-1/2 (978)        |
| Bottom Tray    | 1                   | 43 (1,092)         | 21-3/4 (552)           | 2-13/16 (71.4)      |

#### KRP1HD Polymer Roll Cart

- Heavy-duty polymer construction will not scratch painted surfaces, will not corrode and is nonconductive
- Top slides in either direction to reveal storage compartment and work surface underneath
- Built-in tool holders in handles accept wide variety of screwdrivers, small prybars, pliers and other small-to-medium hand tools
- Drain plugs in both upper and lower trays facilitate cleanup
- Red trays with gray lid and legs
- Locking swivel casters
- Each tray has 160 lb (73 kg) load capacity



KADDS2402

### Steel Drawer Dividers

- Made from galvanized steel
- Simply place the side edges and front/back edges around the perimeter of the drawer, and then locate middle dividers and divider tabs wherever they are needed (in 3, 5, 7, 10 and 15" width increments)
- Additional individual components for KRL1000 and KRL7000 Series (29" deep) available at [www.snapon.com/toolstorage](http://www.snapon.com/toolstorage)

#### KADDS2402 2" Drawer Divider Kit

- Tool storage divider set for common 2"-wide drawer/24"-deep units for the Masters and Classic Series
- Designed to be used in all KRL Masters Series (24 and 29"-deep), Classic Series (24"-deep) and KRA6200 Series Road Chests

#### KADDS2404 4" Drawer Divider Kit

- Tool storage dividers for the wide drawer common on 24"-deep units

## KRA6200F/KRA6210F Series Road Chests

- Wider side walls with added corner gussets to keep corners square
- Three stiffeners behind front cover with inside padding: strengthens cover and protects drawers
- Cover and front are hinged together for quick and easy access to all tools
- Overlap on lid allows water to flow past without entering the front section
- Handles on KRA6210F Series provide easier lifting (Handle: 8-3533 add color suffix)
- Three friction hinges keep the front cover from slamming
- Optional steel drawer divider sets: KADDS2402 2" drawer, KADDS2404 4" drawer

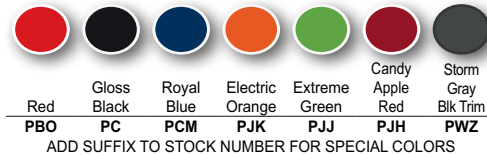
| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg)       |                           | Shipping Weight, lb (kg)   |
|---------------------------------|----------------------------------|---------------------------|---------------------------|----------------------------|
| 11,937 (195,612)                | 3,460 (22,323)                   | 282 (128)*                |                           | 325 (147)*                 |
|                                 | <b>Drawers</b>                   | <b>Width, inches (mm)</b> | <b>Depth, inches (mm)</b> | <b>Height, inches (mm)</b> |
| <b>Specifications</b>           | 4                                | 36 (914)                  | 24 (610)                  | 24 (610)                   |
| <b>Drawers</b>                  | 2                                | 30-1/2 (775)              | 21-3/4 (552)              | 1-3/4 (44)                 |
|                                 | 2                                | 30-1/2 (775)              | 21-3/4 (552)              | 3-5/8 (92)                 |
| <b>Top Compartment</b>          | —                                | 34-7/8 (885)              | 22-1/2 (571)              | 5-1/2 (139)                |

\*Add 25 lb for cage on KRA6200F

### KRA6200FPBO 36" Four-Drawer Heavy-Duty Road Chest

### KRA6210FPBO 36" Four-Drawer Heavy-Duty Road Chest with Side Handles

#### Colors Available



KRA6200FPBO



KRA6210FPBO

## Optional Waterproof Covers

| KRA6200 | KAC6200 (Red) | KAC6200PC (Black) |
|---------|---------------|-------------------|
| KRA6210 | KAC6210 (Red) | KAC6210PC (Black) |

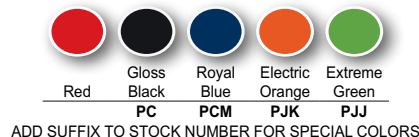
## KRA62 Series Heavy-Duty Road Chest

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg)       | Load Capacity, lb (kg)    |
|---------------------------------|----------------------------------|---------------------------|---------------------------|
| 8,187 (134,160)                 | 3,108 (20,050)                   | 178 (81)                  | 450 (204)                 |
|                                 | <b>Drawers</b>                   | <b>Width, inches (mm)</b> | <b>Depth, inches (mm)</b> |
| <b>Specifications</b>           | 10                               | 31-3/32 (789.8)           | 20-5/16 (515.9)           |
| <b>Top Compartment</b>          | —                                | 26 (660.4)                | 19-1/8 (485.8)            |

### Optional Accessories:

#### KRAC62 Nylon Cover

#### Colors Available



KRA62D



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

**MOBILE TOOL CHESTS**



**KMC18062PGR**



| Stock No. | Drawers |
|-----------|---------|
| KMC18043  | 7       |
| KMC18062  | 8       |



**KMC18062PTN**

**Colors Available**

|       |        |            |              |
|-------|--------|------------|--------------|
|       |        |            |              |
| Black | Orange | Combat Tan | Combat Green |
| PBK   | POR    | PTN        | PGR          |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**All Weather Tool Chests**

- 22.1" wheel base on the wide corners for stability
- Innovative four bar latch system for secure lid closure
- Telescoping handle with higher reach
- Over top hinged lid can be used as a seat when case is closed
- Drawers fully extend on Snap-on® proprietary composite slides
- Usable space interior dimensions: 21.2" W x 11.9" D x 15.4" H
- 4,130 cubic inches of internal space
- Heavy-duty butterfly hinges
- Auto pressure equalization valve
- Large side handles that may be gripped with two hands
- Configurable drawers; interchangeable with other mobile tool chests
- Heavy-duty roll cage ribs; durable, shock-resistant material
- Stackable design even when fully loaded
- Snap-on® padlock holder with 250 lb of break in resistance
- Water resistant when submerged to one meter
- Case material made with Zerust® corrosion inhibitor to help prevent tools from rusting
- Net weight 44 lb (20 kg)

**Optional Accessories:**

**JIKMC18-7NS**

**Nonslip Drawer Liner Kit**

- For KMC18043 Series seven drawer units only

**TCK18043BR**

**Tool Control Kit**

- Tool Control Kit for KMC18 seven drawer units only

**KMC18-1DRW**

**Single Deep Drawer**

- Fits KMC18

**KMC18-2DRW**

**Double Deep Drawer**

- Fits KMC18

**RKKMOC18HL**

**Handle Replacement Kit**

- For the KMOC18 series of All Weather Tool Chests

**RKKMOC18WH Wheel Kit**

- For the KMOC18 series of All Weather Tool Chests



**TB50W**

**Soft-Sided Tool Bag with Wheels**

**TB50W Soft-Sided Tool Bag with Wheels**

- Multiple pockets inside and outside to store a multitude of smaller items
- Large gate mouth opening to store larger items and for easy access
- Made of durable 1680 denier oxford nylon fabric for strength and durability
- 36" telescoping handle with wheels to roll rather than carry the bag
- Dimensions: 20" W x 12" D x 12" H



## Aviation Dog Boxes

Aviation technicians told us what they need. And we listened. Snap-on® is excited to introduce this new line of rolling tool boxes with convenient hand-tow handles. Available in three sizes, these dog boxes let you load up

### Interchangeable Handles

- Small and medium dog boxes feature an interchangeable hard steel wagon-style handle that keeps the box from wandering or nipping at your heels, or a soft nylon leash so you can choose the hand-tow handle that best fits your needs
- Handles can be quickly installed or changed with the wire lock pin Deluxe Wagon-Style Handle
- The large dog boxes feature a deluxe hard steel wagon-style handle that is easy to steer and easy to control
- The swivel feature allows for a comfortable pulling position while the spring-loaded action keeps the handle in the upright position, when the box is at rest

the tools you need for a specific task and comfortably wheel them across the tarmac, from hangar to hangar, through the terminal or on a plane.

### Hinged And Foldable Top

- Both large dog boxes feature a front lid that folds up and under the top lid to create a convenient, flat work surface, while still allowing access to the drawers
- When fully closed, the hinged cover lets you keep the drawers and box securely locked

### Removable Chassis

- Each dog box can be removed from the rolling chassis with convenient lifting handles to allow for stationary storage on a bench or roll cab for easy accessibility

### Rubber Wheels

- All models feature rubber caster wheels for a smooth and quiet ride along with maximum shock absorption
- Wheels can also be locked for safety



KRDB265



KRDB269



KRDB18



KRDB24

| Specification                 | KRDB265                                       | KRDB269                                       | KRDB18  | KRDB24  |
|-------------------------------|---|---|---|---|
| Brand                         | Snap-on®                                      | Snap-on®                                      | Blue-Point®   | Blue-Point®   |
| Description                   | Dog Box Large, 5-Drawer Wheeled Tool Box      | Dog Box Large, 9-Drawer Wheeled Tool Box      | Dog Box Small, Wheeled Tool Box                             | Dog Box Medium, Wheeled Tool Box                            |
| Storage Space (Cubic Inches)  | 4,452   | 4,288   | 1,530   | 2,540   |
| Storage Space (Square Inches) | 1,814   | 1,753   | 525   | 670   |
| Number of Trays               | —   | —   | 4   | 4   |
| Number of Drawers             | 5 full length                                 | 3 full length<br>6 compartment                | —   | —   |
| Cantilever, Split-Top Opening | —   | —   | Yes   | Yes   |
| Flat Work Top                 | Yes   | Yes   | —   | —   |
| Pull Handle*                  | Deluxe Hard Steel Wagon Handle with Soft Grip | Deluxe Hard Steel Wagon Handle with Soft Grip | Interchangeable Hard Steel Wagon Handle or Soft Nylon Leash | Interchangeable Hard Steel Wagon Handle or Soft Nylon Leash |
| Carrying Handle               | No  | No  | Yes   | Yes   |
| Rubber Wheels                 | Yes   | Yes   | Yes   | Yes   |
| Removable Chassis             | Yes   | Yes   | Yes   | Yes   |
| Length, inches (mm)           | 26 (660)                                      | 26 (660)                                      | 18 (457)  | 24 (610)  |
| Width, inches (mm)            | 14-3/4 (375)                                  | 14-3/4 (375)                                  | 10 (254)  | 12 (305)  |
| Height, inches (mm)           | 17-1/4 (438)                                  | 17-1/4 (438)                                  | 13-1/4 (349)  | 12 (305)  |
| Weight, lb (kg)               | 103 (47)                                      | 103 (47)                                      | 32 (14)   | 55 (25)   |

\*Designed to be pulled by hand

Already own a Snap-on® toolbox? Add a rolling chassis to create your own dog box.

**DB18CHASSIS:** 18" Chassis with Interchangeable Hard and Soft Handles

**DB24CHASSIS:** 24" Chassis with Interchangeable Hard and Soft Handles

**DB26CHASSIS:** 26" Chassis Hard Handle only



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## MOBILE SOLUTIONS: ROLL CARTS (Blue-Point®)



**KRBC50TB**

### KRBC50TB Series Roll Cart (Blue-Point®)

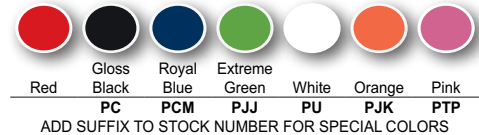
- New self-closing drawer retention system keeps drawers from drifting open
- Heavy-duty cart push handle
- 6 x 2" heavy-duty casters (brakes on two of the casters)
- Rugged 1 pc bumper guards
- Retractable side work table
- Prybar and tool holders on each side of the cart
- Can holder included

| Specifications                   | KRBC50T Series   |
|----------------------------------|------------------|
| Cubic Inches (cm <sup>3</sup> )  | 11,283 (184,900) |
| Square Inches (cm <sup>2</sup> ) | 3,314 (21,380)   |
| Width, inches (mm)               | 36 (965)         |
| Height, inches (mm)              | 42 (1,071)       |
| Depth, inches (mm)               | 22-3/8" (569)    |
| Load Capacity, lb (kg)           | 800 (362)        |
| Drawers                          | 5                |
| Casters                          | 6" x 2"          |
| Net Weight, lb (kg)              | 180 (81.6)       |
| Shipping Weight, lb (kg)         | 216 (98)         |

Does not include bottom tray

### KRBC50TB Roll Cart (Blue-Point®)

#### Colors Available



**KRBC30TBPCM**

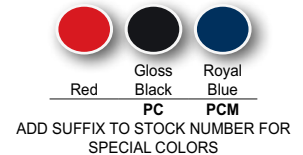
### KRBC30TB Series Roll Cart (Blue-Point®)

- Portable 20' electrical cord reel with four outlets and circuit breakers
- Adjustable personal organizer tray in top compartment (24" W x 3" D x 1-1/2" H)
- One-piece rubber bumper for each leg (already installed)
- Bottom corner bump blocks for extra corner protection
- Sturdy, spacious bottom drawer with two sets of drawer slides
- Larger pull handles for easy drawer opening
- Heavy-duty padded handle
- Removable garbage can
- Sturdy side work table
- Removable spray can holder
- Comes with casters assembled on cart

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |
|---------------------------------|----------------------------------|---------------------|------------------------|
| 11,050 (181,077)                | 2,153 (13,890)                   | 180 (81.5)          | 800 (362)              |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     |
|                                 | 4                                | 35 (889)            | 21 (533)               |
|                                 | Height, inches (mm)              |                     |                        |
|                                 | 41-1/4 (1,048)                   |                     |                        |
| Specifications                  | —                                | 24 (610)            | 20 (508)               |
| Top Compartment                 |                                  |                     | 6 (152)                |

### KRBC30TBPCM Roll Cart (Blue-Point®)

#### Colors Available



## KRBC100 Series Shop Cart (Blue-Point®)

- Bulk items (up to 18" tall, 31" wide or 19" deep) can be secured behind the rolling locking door
- All-new Blackout color scheme
- (2) narrow drawers and (2) wide drawers
- Locking pry bar cabinet can accommodate (20) prybars and/or screwdrivers
- Factory installed bumpers help to protect nearby vehicles
- Slotted side panels hold Snap-on® slotted accessories
- Lockable top section is 5" deep

| Cubic inches (cm <sup>3</sup> ) | Square inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|
| 18,749 (307,241)                | 2,901 (18,716)                   | 205 (91)            | 800 (362)              |                     |
| Specifications                  | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |
| Drawers                         | 1                                | 26 (679)            | 18 (444)               | 5 (116)             |
|                                 | 2                                | 12 (314)            | 18 (444)               | 2 (51)              |
| Top Compartment                 | 1                                | 31 (794)            | 20 (495)               | 5 (126)             |

## KRBC100BKG 32" Four-Drawer with Bulk Storage Shop Cart (Blue-Point®)

Colors Available

|   |   |   |   |   |   |  |
|---|---|---|---|---|---|--|
|  |  |  |  |  |  |  |
| Red<br>Blk Trim   | Black<br>Blk Trim   | Blue<br>Blk Trim  | Green<br>Blk Trim   | Orange<br>Blk Trim  | Purple<br>Blk Trim  | Storm Gray<br>Blk Trim   |
| <b>BN</b>   | <b>BFI</b>  | <b>BET</b>  | <b>BKG</b>  | <b>BKH</b>  | <b>BEG</b>  | <b>PWZ</b>   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



KRBC100BKG

## KRBC200 Series Shop Cart (Blue-Point®)

- Top compartment is 13-1/2" deep to accommodate power tool holder, standing storage of power tools with batteries, magnetic wrench racks, deep sockets and personal bulk items
- Charging Capability: Top area is designed for KAPS5 Power Strip with (5) offset AC outlets and (2) USB outlets, KAPS5BRKT Cord Wrap Bracket for 15' cord
- Sliding lid for easy top compartment access
- (5) wide drawers and (2) bottom drawers are almost 5" deep
- Locking prybar cabinet included
- Rugged corner bumpers
- Rubber raised edge work surface
- Seven great-looking Blackout colors, black trim, black logo
- Slotted side panels hold Snap-on® accessories: KAS12APWRPC Power Tool Rack; KAS12APV Shelf, KAHK63 Hooks, KAT12APV 12" Can Tray, KATR12PV T-Handle Rack

| Cubic inches (cm <sup>3</sup> ) | Square inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|
| 18,574 (304,367)                | 4,803 (30,989)                   | 180 (82)            | 500 (227)              |                     |
| Specifications                  | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |
| Drawers                         | 3                                | 27 (679)            | 18 (444)               | 2 (51)              |
|                                 | 2                                | 27 (679)            | 18 (444)               | 5 (116)             |
| Top Compartment                 | 1                                | 31 (788)            | 20 (495)               | 18 (412)            |
| Prybar Cabinet                  | 1                                | 15 (380)            | 4 (101)                | 9 (226)             |

## KRBC200BEG 32" Five-Drawer Sliding Lid Shop Cart (Blue-Point®)

Colors Available

|   |   |   |   |   |   |  |
|---|---|---|---|---|---|--|
|  |  |  |  |  |  |  |
| Red<br>Blk Trim   | Black<br>Blk Trim   | Blue<br>Blk Trim  | Green<br>Blk Trim   | Orange<br>Blk Trim  | Purple<br>Blk Trim  | Storm Gray<br>Blk Trim   |
| <b>BN</b>   | <b>BFI</b>  | <b>BET</b>  | <b>BKG</b>  | <b>BKH</b>  | <b>BEG</b>  | <b>PWZ</b>   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



KRBC200BEG



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## MOBILE SOLUTIONS: ROLL CARTS (Blue-Point®)



**KRBC10TBPES**

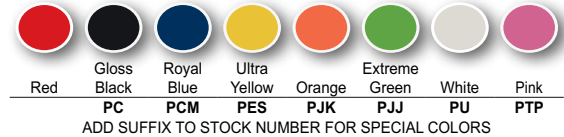
### KRBC10TB Series Roll Cart (Blue-Point®)

- 2,400 in<sup>2</sup> (7,428 in<sup>3</sup>) of storage space and 540 lb load capacity
- Locking flip top with gas shocks
- (4) locking drawers when lid is closed
- Screwdriver storage is in top compartment
- Retractable side work table
- Quick-disconnect system for the gas shocks allows the lid to be turned over the back of the cart 270° for full access to the cart from the front, back and sides
- Plated fasteners resist corrosion and self-locking nuts ensure a rigid, secure assembly
- Locking support tabs add strength, increase load capacity and facilitate quick assembly
- Protective rubber bumpers
- Made from heavy-gauge steel for superior strength
- Comes with casters assembled

|                              | Cubic inches (cm <sup>3</sup> ) | Square inches (cm <sup>2</sup> ) | Load Capacity, lb (kg) |                     |
|------------------------------|---------------------------------|----------------------------------|------------------------|---------------------|
|                              | 7,428 (121,700)                 | 2,400 (15,480)                   | 540 (245)              |                     |
|                              | Drawers                         | Width, inches (mm)               | Depth, inches (mm)     | Height, inches (mm) |
| <b>Specifications</b>        | 4                               | 30-1/2 (775)                     | 20-1/2 (520)           | 41-1/4 (1,048)      |
|                              | 2                               | 11-1/2 (292)                     | 17-1/2 (444)           | 2-1/2 (63.5)        |
| <b>Drawers</b>               | 1                               | 24-1/2 (622)                     | 17-1/2 (444)           | 2-1/2 (63.5)        |
|                              | 1                               | 24-1/2 (622)                     | 17-1/2 (444)           | 2-1/2 (63.5)        |
| <b>Bottom Shelf</b>          | 2                               | 30 (762)                         | 19 (482)               | 3-1/2 (88.9)        |
| <b>Top Compartment</b>       | —                               | 30 (762)                         | 19 (482)               | 2-1/2 (63.5)        |
| <b>External Tray (rear)</b>  | —                               | 15-3/8 (390)                     | 4 (101)                | 3-3/8 (85.9)        |
| <b>External Tray (front)</b> | —                               | 15-3/8 (390)                     | 4 (101)                | 2 (50.8)            |

### KRBC10TBPES Four-Drawer Service Cart (Blue-Point®)

#### Colors Available



**KRBCSST**

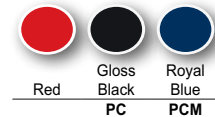
### KRBCSST Series Roll Cart (Blue-Point®)

- Padded lid protects finish and provides additional work surface
- Roller bearing slide drawers, locking slide top and internal prybar holder
- Dual locking casters keep cart in place during use
- Convenient storage trays on both sides

| Cubic Inches (cm <sup>3</sup> ) | Square Inches (cm <sup>2</sup> ) | Net Weight, lb (kg) | Load Capacity, lb (kg) |                     |
|---------------------------------|----------------------------------|---------------------|------------------------|---------------------|
| 15,931 (261,062)                | 1,618 (26,514)                   | 23.5 (56)           | 300 (136)              |                     |
|                                 | Drawers                          | Width, inches (mm)  | Depth, inches (mm)     | Height, inches (mm) |
| <b>Specifications</b>           | 2                                | 29-7/16 (747)       | 20-5/8 (524)           | 38-11/16 (982)      |
| <b>Top Compartment</b>          | —                                | 29-7/16 (747)       | 20-5/8 (524)           | 6-13/16 (171)       |
| <b>Drawers</b>                  | 2                                | 29-5/16 (744)       | 17-1/2 (444)           | 2-3/4 (69)          |
| <b>Bottom Compartment</b>       | —                                | 29-5/16 (744)       | 17-1/2 (444)           | 3 (75.9)            |

High quality 210 Denier® nylon. Sturdy zipper makes using the cover quick and easy. Waterproof and durable.

#### Colors Available



## KRBC7TD Series Roll Cart (Blue-Point®)

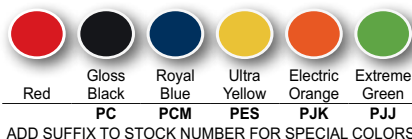
- Four swivel casters (two locking)
- Six liners on drawer and tray, and one rubber mat on side work shelf
- Latch system to unlock all four drawers once the top lid has been opened with a key
- Gas springs on lid for greater control
- Folding side work shelf provides extra work space
- Provides secure mobile tool storage
- Tubular locks on lid and prybar compartment
- Locking flip top lid with full-length piano hinge
- Locking prybar compartment securely holds all length prybars and screwdrivers

|                | Net Weight, lb (kg) |                    | Load Capacity, lb (kg) |                     |
|----------------|---------------------|--------------------|------------------------|---------------------|
|                | 112.2 (50.8)        |                    | 300 (136)              |                     |
|                | Drawers             | Width, inches (mm) | Depth, inches (mm)     | Height, inches (mm) |
| Specifications | 4                   | 35 (889)           | 17 (431)               | 41 (1,041)          |
| Drawers        | 2                   | 13-13/16 (350)     | 15-3/8 (398)           | 2 (50.8)            |
|                | 1                   | 27-9/16 (700)      | 15-7/16 (391)          | 2 (50.8)            |
|                | 1                   | 27-9/16 (700)      | 15-7/16 (391)          | 4 (101)             |
| Bottom Shelf   | 1                   | 27-9/16 (700)      | 15-7/16 (391)          | 3 (76.2)            |



KRBC7TDPJJ

### Colors Available



## KRBC13 Series Heavy-Duty Cart (Blue-Point®)

- Locking deep drawer almost 5"
- Uses 3" slots on sides/back to hold our standard racks and shelves
- Heavy-gauge steel legs keep unit sturdy and square
- Welded bottom panel rails support 5 x 2" casters under heavy loads
- Comes fully assembled; install handle and go!
- Optional second drawer add-on (KRBC13DK)

| Specifications                   | KRBC13                         |
|----------------------------------|--------------------------------|
| Width, inches (mm)               | 31-1/2 (800)                   |
| Depth, inches (mm)               | 19-1/2 (495)                   |
| Height, inches (mm)              | 38 (965)                       |
| Cubic inches (cm <sup>3</sup> )  | 5,591 (10,516)                 |
| Square inches (cm <sup>2</sup> ) | 1,630 (16,445)                 |
| Slots on side panels             | 3" (76 mm) on center, max. 15" |
| Slots on back panel              | 3" (76 mm) on center, max. 21" |
| Drawers                          | 1                              |



KRBC13PBO

## KRBC13PBO Heavy-Duty One-Drawer Two-Tray Cart (Blue-Point®)

### Colors Available



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

## MOBILE SOLUTIONS: ROLL CARTS (Blue-Point®)



KRBC2TCPCM

### KRBC2TC Series Roll Cart (Blue-Point®)

- Rugged, general duty dual shelf roll cart
- Trays feature rolled edges for improved strength and rigidity
- Maximum load capacity 150 lb (68 kg) per tray
- Casters are 4" x 1 1/8" (two locking, two standard)
- Trays measure 30" long x 17" deep

| KRBC2TC        | Net Weight, lb (kg) |                    | Load Capacity, lb (kg) |                     |
|----------------|---------------------|--------------------|------------------------|---------------------|
|                |                     | 38 (17.2)          | 300 (136)              |                     |
|                | Drawers             | Width, inches (mm) | Depth, inches (mm)     | Height, inches (mm) |
| Specifications | —                   | 30 (756)           | 17 (428)               | 41 (1,041)          |
| Trays          | 2                   | 30 (756)           | 17 (428)               | 3 (75)              |

### KRBC2TCPCM Roll Cart (Blue-Point®)

- **KRBC3TD-1 Locking Drawer**
- Optional add-on locking drawer for KRBC2TC
- **350ABMF09 Replacement Add-On Tray**

#### Colors Available



Red      Gloss Black      Royal Blue  
 PC      PCM

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



KRBC3TD

### KRBC3TD Series Roll Cart (Blue-Point®)

- Features locking drawer with tubular lock for added tool security
- Two sturdy, 3" deep trays are positioned for convenience
- 150 lb (68 kg) load capacity per tray
- Made of heavy-gauge steel
- Friction drawer slides
- 4 x 1-1/8" casters (two locking, two standard)

| KRBC3TD        | Net Weight, lb (kg) |                    | Load Capacity, lb (kg) |                     |
|----------------|---------------------|--------------------|------------------------|---------------------|
|                |                     | 65 (29.5)          | 300 (136)              |                     |
|                | Drawers             | Width, inches (mm) | Depth, inches (mm)     | Height, inches (mm) |
| Specifications | —                   | 32 (813)           | 17-13/16 (452)         | 41 (1,041)          |
| Trays          | 2                   | 30 (762)           | 17 (428)               | 3 (76.2)            |
| Drawer         | 1                   | 27 (685)           | 14-1/2 (368)           | 4 (101)             |

### KRBC3TD Roll Cart (Blue-Point®)

- **KRBC3TD-1 Locking Drawer**
- Optional add-on locking drawer for KRBC2TC

#### Colors Available



Red      Gloss Black      Royal Blue  
 PC      PCM

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### SOSTPCA Automotive Service Tray

- Leg clearance of 25" allows service tray to slide under hood from the front or side of vehicle
- Height adjustable support post (36.5–48.6") allows tray to clear fender or front end on most vehicles
- Removable parts tray and screwdriver holders built into the tray
- Protective bumpers included for the support post
- Tray will hold maximum of 125 lb and the drawer 25 lb



SOSTPCA

### SOSTPLUS Automotive Service Tray PLUS

- New taller design means it can be used on trucks, such as Ford® F-150, F-250, and more
- Wider base to handle the taller height; provides better stability
- Large, heavy-duty casters for easier moving
- Top is able to rotate approximately 45° slightly left or right of center
- Hang more accessories with the larger top tray side wall/lip
- Larger tray provides more surface space
- Larger crank gear for less cranking to raise and lower the tray
- Bigger bottom basket for even more storage underneath



SOSTPLUS

### BLPUHST Underhood Service Tray (Blue-Point®)

- Convenience with less user motion and fatigue
- 24" leg clearance allows the service tray to slide under the hood from the front or the side of vehicle
- Parts dividers and screwdriver holders built into the tray
- Protective bumpers included for top tray and support post
- 3" heavy-duty swivel casters
- Height-adjustable support post adjusts from 35-13/16–48-3/8" for the tray to clear the fender or front end of most vehicles
- EVA pads in all tray compartments
- Dimensions (fully assembled): 29-1/2" L x 26" W x 48-3/8" H
- Maximum load capacity: 75 lb (34 kg)



BLPUHST

### BLPUHSTPC Underhood Service Tray (Blue-Point®)

- Matte Black version of the BLPUHST
- Convenience with less user motion and fatigue
- 24" leg clearance allows the service tray to slide under the hood from the front or the side of the vehicle
- Parts dividers and screwdriver holders built into the tray
- Protective bumpers included for top tray and support post
- 3" heavy-duty swivel casters
- Height-adjustable support post adjusts from 35-13/16–48-3/8" for the tray to clear the fender or front end of most vehicles
- EVA pads in all tray compartments
- Dimensions (fully assembled): 29-1/2" L x 26" W x 48-3/8" H
- Maximum load capacity: 75 lb (34 kg)



BLPUHSTPC

## ACCESSORIES: BOXES AND TOTE TRAYS



YA481



YA483



YA486

### Plastic Boxes

Ideal for a wide range of storage needs. YA481 through YA486 are made of tough injection-molded plastic to ensure a precise fitting lid and durability. Top carrying handle, tension latches, tote tray and padlock provision are also featured.

| Stock No. | Dimensions, inches             |
|-----------|--------------------------------|
| YA481     | 14-1/2 W x 7-1/4 D x 4-1/2 H   |
| YA482     | 16-1/2 W x 8-1/4 D x 6-1/2 H   |
| YA483     | 20-1/4 W x 9 D x 7-3/4 H       |
| YA484     | 23-1/8 W x 10-1/4 D x 10-1/2 H |
| YA486     | 27-1/2 W x 13-3/8 D x 14 H     |



• Images may be shown without actual warning labels  
 • Read safety precautions on pages W1 to W4

## ACCESSORIES: STORAGE CASES, TOTE TRAYS AND WALL CABINET



KRP5CAB



KRP5PB



YA402



KTA3A



KTA8PV



KRP1001A



KRA276D

Tool Boards Purchased separately

### Parts Storage Cases

#### KRP5CAB Five-Drawer Storage Cabinet

- Use to store or inventory small tools and parts
- Black, heavy-duty polypropylene cabinet with five removable drawers (KRP5PB)
- Each drawer features a translucent plastic divider system that allows full customization for individual needs
- Drawers are easily removable for transport to job location
- Units can be stacked or wall mounted
- Resistant to common solvents
- Cabinet dimensions are 15-1/2" W x 14-1/2" D x 16" H

#### KRP5PB Storage Drawer

- Plastic storage drawer for KRP5CAB parts storage cabinet
- Each drawer features 16 translucent section dividers for unlimited customizing options (KRP5PB-16 = 16 Dividers)
- Drawer measures 13-5/8" W x 9-5/8" D x 2-1/4" H

#### YA402 Parts Storage Case (Blue-Point®)

- Interchangeable partitions allow customizing from 9–24 compartments
- Rugged polypropylene construction
- 14-5/8" W x 10-3/4" D x 2-5/16" H

#### YA485 Parts Storage Case (Blue-Point®)

- Similar to YA402 except interchangeable partitions can form 8–32 compartments
- 18" W x 12" D x 3" H

### Tote Trays

#### KTA3A Metal Tote Tray

- Tubular pull-up handle lifts 1-5/8"
- Measures 20-1/4 x 8 x 3-1/4" with handle down

#### KTA8PV Metal Tote Tray

- Drops in any 14" wide (4" deep) drawers on KRL1000 and KRL700 Series tool storage units
- Four non-skid rubber feet protect finished surfaces from scratching
- Raised lips hold tray securely in drawer
- Tubular pull-up handle raises 1-3/4"
- Measures 14-13/16" L x 10" W x 3-13/16" H with handle down
- Black textured finish

#### KRP1001A Plastic Tote Tray

- Made of tough, rust-proof, nonconductive, chemical-resistant polymer
- Includes two deep end pockets
- Bottom drawer is divided into 12 compartments and can be opened from either side
- 16-5/8" L x 10-1/4" W x 6-7/8" H

### Wall Cabinet

#### KRA276D 33-7/8" Two-Door Wall Cabinet

- Wall cabinet provide both security and inventory control
- Wall cabinet can be mounted to wall, stationary bench or roll cab
- Ruggedly built of heavy-gauge steel for durability
- Theft-resistant cylinder locks and a two-point locking system provide protection for your tools
- Features PLEXIGLAS® door panels to permit checking tool inventory without opening doors
- Cabinet measures 33-7/8 W x 24-3/4" H x 6" D



# ACCESSORIES: BOXES AND TOTE TRAYS



**KRW184B**



**KRW185**



**KRA25D**



**KRW48C**



**UT22K**



**KRA21G**



**KRW182B**



**KRW183C**



**KRA24**



**KRU24B**



**KRU24GB**

| Stock No.      | Cubic inches (cm <sup>3</sup> ) | Square inches (cm <sup>2</sup> ) | Dimensions, inches   | Description/Features                                      |
|----------------|---------------------------------|----------------------------------|--|---|
| <b>KRW184B</b> | 1,851 (30,330)                  | 684 (4,413)                      | Overall: 20-19/32 x 8-1/2 x 14-1/4<br>Top 3 Drawers: 17-13/16 x 7-5/16 x 2<br>Bottom Drawer: 17-13/16 x 7-5/16 x 2-1/2 | Four-Drawer Locking Box with Lid (Blue-Point®)            |
| <b>KRW185</b>  | 2,030 (33,266)                  | 845 (5,452)                      | 20-1/4 x 18 x 8-1/2  | Five-Drawer Locking Box with Lid (Blue-Point®)            |
| <b>KRA25D</b>  | 1,568 (25,690)                  | 180 (1,161)                      | 20-7/8 x 8-3/4 x 8-3/4   | Metal Box with Partitioned Tote Tray (Blue-Point®)        |
| <b>KRW48C</b>  | 1,530 (25,070)                  | 476 (3,071)                      | 18 x 10 x 13-1/4   | Cantilever Lid (Blue-Point®)                              |
| <b>UT22K</b>   | 1,444 (23,660)                  | 525 (3,837)                      | Overall: 22 x 8 x 9; 4 Small Trays: 22 x 4 x 2   | 22" Long Cantilever Box                                   |
| <b>KRA21G</b>  | 996 (16,320)                    | 486 (3,135)                      | Bottom Drawer: 19-3/4 x 7-3/4 x 2-13/16  | Two-Drawer Locking Box with Tote Tray                     |
| <b>KRW182B</b> | 1,137 (18,630)                  | —                                | 18-1/2 x 8-1/2 x 9-1/2   | Two-Drawer Locking Box with Lid (Blue-Point®)             |
| <b>KRW183C</b> | 1,637 (26,830)                  | —                                | Overall: 20-19/32 x 8-1/2 x 12<br>Each Drawer: 17-13/16 x 7-5/16 x 2-1/2   | Three-Drawer Locking Box with Lid (Blue-Point®)           |
| <b>KRA24</b>   | 1,155 (18,930)                  | 154 (994)                        | 19-7/8 x 7-3/4 x 7-1/2   | Box with Tote Tray  |
| <b>KRU24B</b>  | 2,540 (41,623)                  | 670 (4,322)                      | Bottom Section: 23-3/5 x 11-3/5 x 7-1/4  | Red 24" Long Box with Cantilever Under Lid (Blue-Point®)  |
| <b>KRU24GB</b> | 2,540 (41,623)                  | 670 (4,322)                      | Bottom Section: 23-3/5 x 11-3/5 x 7-1/4  | Gray 24" Long Box with Cantilever Under Lid (Blue-Point®) |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

**ACCESSORIES: TOTE BAGS**



TB10A



TB20A



TB30



TB40



TB50



CTTOTE



BPTOTE



CTUTOTEABK

**Tote Bags**

- Rugged, versatile tote bags are constructed from heavy duty 600 x 300 D-polyester
- Water-resistant PVC backing
- Reinforced top hem
- Wide top opening for easy access
- Padded handles and shoulder strap
- Embroidered logos

**TB10A Collapsible Tote Bag**

- Folds flat for convenient storage using hook-and-loop with metal snap corner closures
- Multiple interior and exterior pockets
- Fold-down interior bin dividers
- Molded plastic bottom for strength
- Overall dimensions: 18" L x 8" W x 9" H

**TB20A Tote Bag**

- Multiple interior and exterior pockets
- Removable plastic parts storage bin accessed via lower side storage pocket
- Overall dimensions: 15" L x 10-1/2" W x 12" H

**TB30 Tote Bag**

- Ultimate small tool organizer
- Multi-organizing pockets
- Heavy-duty zippers
- Overall dimensions 13" L x 10" W x 8" H

**TB40 Tote Bag**

- Lots of cargo space for cordless tools, etc.
- Heavy-duty shoulder strap
- Water-resistant D-polyester fabric and reinforced top hem for sturdy construction
- Multiple pockets, inside and out
- Wide opening for easy access
- Heavy-duty zippers
- Will hold an 18" pry-bar in diagonal mounts on the inside wall
- Maximum carrying capacity of 27 lb
- Overall dimensions 17" L x 9" W x 11" H

**TB50 Tote Bag**

- Multiple pockets both inside and on the exterior
- Easy grip handle
- Special hard body design
- Overall dimensions 20 x 11 x 9"

**CTTOTE Power Tool Tote Bag**

- Wide opening for easy access to tools—extra padding for protection
- Durable 600 Denier® exterior for strength
- Interior pockets and compartments for tool organization
- Padded handles for comfortable transport
- Reinforced bottom for strength
- Six external pockets for extra storage
- Approximate inside dimensions, open: 18" L x 8" W x 11-1/2" D (457 x 203 x 292 mm)

**BPTOTE Tote Bag (Blue-Point®)**

- Heavy-duty 600 x 300 D-polyester
- Water-resistant, rugged and versatile
- Wide top opening for easy access
- Multiple interior and external pockets for organization
- Overall dimensions: 16-1/2" L x 10-1/2" W x 12-1/4" H

**CTUTOTEABK Heavy-Duty Power Tool Tote Bag**

# CENTRIQ™

STORING PARTS, SHARED TOOLS AND OTHER SUPPLIES IN YOUR SHOP OFTEN CALLS FOR A CENTRAL TOOL STORAGE SYSTEM. AND CENTRIQ™ STATIONARY STORAGE CAN PROVIDE THE PERFECT HUB. IN ADDITION TO MAXIMIZING SPACE, IT OFFERS UNLIMITED WAYS TO CUSTOMIZE AND SCALE YOUR STORAGE.

## BUILT-IN TOOL STORAGE, BUILT TO MEET YOUR NEEDS.

CENTRIQ offers bases in multiple heights and widths with a choice of pallet jack or adjustable leg bases. All units are 29" deep with six different heights, five widths and multiple work surface options. Customize your work space with a variety of surfaces, drawer configurations and SpeedDrawer options.

## STATIONARY STORAGE

- SpeedDrawer capability in every drawer: a wide selection of color-matching dividers to organize parts and a shop's common-use tools
- Patented Lock 'N Roll® System makes opening the drawers a snap and prevents them from drifting open
- Heavy-duty superior ball bearing drawer slides for smooth, dependable performance
- Corner gusset design strengthens the roll cab without reducing storage capacity
- Pallet jack base: 11-gauge base provides a stationary platform
- Drawer Labels: Each drawer has a label on drawer trim for customization and organization
- Add divider kits to any drawer to create a SpeedDrawer—variety of standard configurations



KSDB051AAPBN



KSDT051AAZBB



KSDC071AAZBB



KSDD041AAPB



KSDS081AAPB



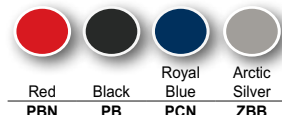
KSDE101AAPBN

### Stationary Storage Drawer Size/Configuration

| Base Stock No. | Description                    | Drawers | Drawer Configuration (Qty)     |
|----------------|--------------------------------|---------|--------------------------------|
| KSND032        | Narrow Desk                    | 3       | (1) 2", (1) 4", (1) 12"        |
| KSNB051        | Narrow Bench                   | 5       | (2) 2", (1) 4", (1) 6", (1) 8" |
| KSNT051        | Narrow Tall Bench              | 5       | (1) 2", (1) 4", (2) 6", (1) 8" |
| KSNC071        | Narrow Counter                 | 7       | (2) 2", (3) 4", (1) 6", (1) 8" |
| KSNS081        | Narrow Standing Counter        | 8       | (2) 2", (4) 4", (1) 6", (1) 8" |
| KSNE101        | Narrow Eye Level               | 10      | (2) 2", (4) 4", (3) 6", (1) 8" |
| KSPD041        | Standard Plus Desk             | 4       | (1) 2", (2) 4", (1) 8"         |
| KSPB051        | Standard Plus Bench            | 5       | (2) 2", (1) 4", (1) 6", (1) 8" |
| KSPT031        | Standard Plus Tall Bench       | 3       | (1) 2", (2) 12"                |
| KSPC061        | Standard Plus Counter          | 6       | (4) 4", (1) 6", (1) 8"         |
| KSPS081        | Standard Plus Standing Counter | 8       | (2) 2", (4) 4", (1) 6", (1) 8" |
| KSPE081        | Standard Plus Eye Level        | 8       | (2) 4", (5) 6", (1) 8"         |
| KSED041        | Extra-Wide Desk                | 4       | (1) 2", (2) 4", (1) 8"         |
| KSEB051        | Extra-Wide Bench               | 5       | (2) 2", (1) 4", (1) 6", (1) 8" |
| KSET051        | Extra-Wide Tall Bench          | 5       | (1) 2", (1) 4", (2) 6", (1) 8" |
| KSEC071        | Extra-Wide Counter             | 7       | (2) 2", (3) 4", (1) 6", (1) 8" |

| Base Stock No. | Description                     | Drawers | Drawer Configuration (Qty)     |
|----------------|---------------------------------|---------|--------------------------------|
| KSES081        | Extra-Wide Standing Counter     | 8       | (2) 2", (4) 4", (1) 6", (1) 8" |
| KSEE101        | Extra-Wide Eye Level            | 10      | (2) 2", (4) 4", (3) 6", (1) 8" |
| KSDD041        | Double-Wide Desk                | 4       | (1) 2", (2) 4", (1) 8"         |
| KSDB051        | Double-Wide Bench               | 5       | (2) 2", (1) 4", (1) 6", (1) 8" |
| KSDT051        | Double-Wide Tall Bench          | 5       | (1) 2", (1) 4", (2) 6", (1) 8" |
| KSDC071        | Double-Wide Counter             | 7       | (2) 2", (3) 4", (1) 6", (1) 8" |
| KSDS081        | Double-Wide Standing Counter    | 8       | (2) 2", (4) 4", (1) 6", (1) 8" |
| KSDE101        | Double-Wide Eye Level           | 10      | (2) 2", (4) 4", (3) 6", (1) 8" |
| KSSD041        | Standard Width Desk             | 4       | (1) 2", (2) 4", (1) 8"         |
| KSSB061        | Standard Width Bench            | 6       | (2) 2", (3) 4", (1) 6"         |
| KSST051        | Standard Width Tall Bench       | 5       | (1) 2", (1) 4", (2) 6", (1) 8" |
| KSSC071        | Standard Width Counter          | 7       | (2) 2", (3) 4", (1) 6", (1) 8" |
| KSSS081        | Standard Width Standing Counter | 8       | (2) 2", (4) 4", (1) 6", (1) 8" |
| KSSE101        | Standard Width Eye Level        | 10      | (2) 2", (4) 4", (3) 6", (1) 8" |

#### Colors Available



Red Black Royal Arctic  
PBN PB PCN ZBB

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**KSNE101AAPB**



**KSNS081AAZBB**



**KSNC071AAPCN**



**KSNT051AAPBN**



**KSNB051AAPB**



**KSND032AAPBN**

## 22-1/2" Stationary Storage, Narrow Width

| Stationary Storage | Specifications                         | KSNE101AA                   | KSNS081AA                            | KSNC071AA                   | KSNT051AA                     | KSNB051AA                | KSND032AA                |
|--------------------|--|-----------------------------|--------------------------------------|-----------------------------|-------------------------------|--------------------------|--------------------------|
|                    | <b>Description</b>                     | Ten-Drawer Narrow Eye-Level | Eight-Drawer Narrow Standing Counter | Seven-Drawer Narrow Counter | Five-Drawer Narrow Tall Bench | Five-Drawer Narrow Bench | Three-Drawer Narrow Desk |
| <b>Capacity</b>    | <b>Square inches (cm<sup>2</sup>)</b>  | 4,694 (30,286)              | 3,756 (24,229)                       | 3,286 (21,200)              | 2,347 (15,143)                | 2,347 (15,143)           | 1,408 (9,086)            |
|                    | <b>Cubic inches (cm<sup>3</sup>)</b>   | 21,683 (355,328)            | 15,888 (260,353)                     | 14,032 (229,944)            | 12,405 (203,281)              | 10,321 (169,125)         | 8,694 (142,462)          |
| <b>Footprint</b>   | <b>Width, inches (mm)</b>              | 22-1/2 (572)                | 22-1/2 (572)                         | 22-1/2 (572)                | 22-1/2 (572)                  | 22-1/2 (572)             | 22-1/2 (572)             |
|                    | <b>Depth, inches (mm)</b>              | 29 (737)                    | 29 (737)                             | 29 (737)                    | 29 (737)                      | 29 (737)                 | 29 (737)                 |
|                    | <b>Height (unit only), inches (mm)</b> | 60-3/4 (1,543)              | 47-7/16 (1,204)                      | 43 (1,092)                  | 38-1/2 (978)                  | 34-1/8 (867)             | 29-11/16 (753)           |
| <b>Drawers</b>     | <b>Drawers, quantity</b>               | 10                          | 8                                    | 7                           | 5                             | 5                        | 3                        |
|                    | <b>Base Type</b>                       | Pallet Jack                 | Pallet Jack                          | Pallet Jack                 | Pallet Jack                   | Pallet Jack              | Pallet Jack              |
|                    | <b>Slides, lb (kg) (ball bearing)</b>  | 227 (103)                   | 227 (103)                            | 227 (103)                   | 227 (103)                     | 227 (103)                | 227 (103)                |
|                    | <b>Double Slide (included)</b>         | No                          | No                                   | No                          | No                            | No                       | No                       |
| <b>Extras</b>      | <b>Work Surface</b>                    | Non-Directional Rubber      | Non-Directional Rubber               | Non-Directional Rubber      | Non-Directional Rubber        | Non-Directional Rubber   | Non-Directional Rubber   |

### Colors Available



Red    Black    Royal Blue    Arctic Silver  
**PBN    PB    PCN    ZBB**

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# STATIONARY STORAGE



**KSPE081AAPB**



**KSPS081AAZBB**



**KSPC061AAPCN**



**KSPT031AAPBN**



**KSPB051AAPB**

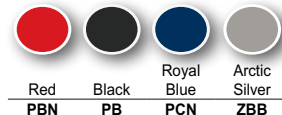


**KSPD041AAPBN**

## 35-5/8" Stationary Storage, Standard Plus Width

| Stationary Storage | Specifications                         | KSPE081AA                                     | KSPS081AA                                   | KSPC061AA                        | KSPT031AA                             | KSPB051AA                       | KSPD041AA                      |
|--------------------|--|---|---|----------------------------------|---------------------------------------|---------------------------------|--------------------------------|
|                    | <b>Description</b>                     | Eight-Drawer Standard Plus Standing Eye-Level | Eight-Drawer Standard Plus Standing Counter | Six-Drawer Standard Plus Counter | Three-Drawer Standard Plus Tall Bench | Five-Drawer Standard Plus Bench | Four-Drawer Standard Plus Desk |
| <b>Capacity</b>    | <b>Square inches (cm<sup>2</sup>)</b>  | 6,587 (42,498)                                | 6,587 (42,498)                              | 4,940 (31,873)                   | 2,470 (15,937)                        | 4,117 (26,561)                  | 3,294 (21,249)                 |
|                    | <b>Cubic inches (cm<sup>3</sup>)</b>   | 38,835 (636,384)                              | 27,867 (456,657)                            | 25,013 (409,891)                 | 22,560 (369,695)                      | 18,102 (296,644)                | 14,847 (243,306)               |
| <b>Footprint</b>   | <b>Width, inches (mm)</b>              | 35-5/8 (905)                                  | 35-5/8 (905)                                | 35-5/8 (905)                     | 35-5/8 (905)                          | 35-5/8 (905)                    | 35-5/8 (905)                   |
|                    | <b>Depth, inches (mm)</b>              | 29 (737)                                      | 29 (737)                                    | 29 (737)                         | 29 (737)                              | 29 (737)                        | 29 (737)                       |
|                    | <b>Height (unit only), inches (mm)</b> | 60-3/4 (1,543)                                | 47-7/16 (1,204)                             | 43 (1,092)                       | 38-1/2 (978)                          | 34-1/8 (867)                    | 29-11/16 (753)                 |
| <b>Drawers</b>     | <b>Drawers, quantity</b>               | 8   | 8   | 6                                | 3                                     | 5                               | 4                              |
|                    | <b>Base Type</b>                       | Pallet Jack                                   | Pallet Jack                                 | Pallet Jack                      | Pallet Jack                           | Pallet Jack                     | Pallet Jack                    |
|                    | <b>Slides, lb (kg) (ball bearing)</b>  | 227 (103)                                     | 227 (103)                                   | 227 (103)                        | 227 (103)                             | 227 (103)                       | 227 (103)                      |
|                    | <b>Double Slide (included)</b>         | Yes (8 drawers)                               | Yes (6 drawers)                             | Yes (6 drawers)                  | Yes (2 drawers)                       | Yes (3 drawers)                 | Yes (3 drawers)                |
| <b>Extras</b>      | <b>Work Surface</b>                    | Non-Directional Rubber                        | Non-Directional Rubber                      | Non-Directional Rubber           | Non-Directional Rubber                | Non-Directional Rubber          | Non-Directional Rubber         |

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



KSEE101AAPB



KSES081AAZBB



KSEC071AAPCN



KSET051AAPBN



KSEB051AAPB



KSED041AAPBN

## 45" Stationary Storage, Extra Width

| Stationary Storage | Specifications                         | KSEE101AA                      | KSES081AA                                | KSEC071AA                       | KSET051AA                         | KSEB051AA                    | KSED041AA                   |
|--------------------|--|--------------------------------|--|---------------------------------|-----------------------------------|------------------------------|-----------------------------|
|                    | <b>Description</b>                     | 10-Drawer Extra-Wide Eye-Level | Eight-Drawer Extra-Wide Standing Counter | Seven-Drawer Extra-Wide Counter | Five-Drawer Extra-Wide Tall Bench | Five-Drawer Extra-Wide Bench | Four-Drawer Extra-Wide Desk |
| <b>Capacity</b>    | <b>Square inches (cm<sup>2</sup>)</b>  | 10,757 (69,402)                | 8,606 (55,521)                           | 7,530 (48,581)                  | 5,379 (34,701)                    | 5,379 (34,701)               | 4,303 (27,761)              |
|                    | <b>Cubic inches (cm<sup>3</sup>)</b>   | 48,085 (787,971)               | 35,125 (575,589)                         | 31,033 (508,532)                | 27,625 (452,687)                  | 22,848 (374,418)             | 18,756 (307,361)            |
| <b>Footprint</b>   | <b>Width, inches (mm)</b>              | 45 (1,143)                     | 45 (1,143)                               | 45 (1,143)                      | 45 (1,143)                        | 45 (1,143)                   | 45 (1,143)                  |
|                    | <b>Depth, inches (mm)</b>              | 29 (737)                       | 29 (737)                                 | 29 (737)                        | 29 (737)                          | 29 (737)                     | 29 (737)                    |
|                    | <b>Height (unit only), inches (mm)</b> | 60-3/4 (1,543)                 | 47-7/16 (1,204)                          | 43 (1,092)                      | 38-1/2 (978)                      | 34-1/8 (867)                 | 29-11/16 (753)              |
| <b>Drawers</b>     | <b>Drawers, quantity</b>               | 10                             | 8  | 7                               | 5                                 | 5                            | 4                           |
|                    | <b>Base Type</b>                       | Pallet Jack                    | Pallet Jack                              | Pallet Jack                     | Pallet Jack                       | Pallet Jack                  | Pallet Jack                 |
|                    | <b>Slides, lb (kg) (ball bearing)</b>  | 227 (103)                      | 227 (103)                                | 227 (103)                       | 227 (103)                         | 227 (103)                    | 227 (103)                   |
|                    | <b>Double Slide (included)</b>         | Yes (8 drawers)                | Yes (6 drawers)                          | Yes (5 drawers)                 | Yes (4 drawers)                   | Yes (3 drawers)              | Yes (3 drawers)             |

### Colors Available



Red    Black    Royal Blue    Arctic Silver  
**PBN    PB    PCN    ZBB**

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# STATIONARY STORAGE



KSDE101AAPB



KSDS081AAZBB



KSDC071AAPCN



KSDT051AAPB



KSDB051AAPBN



KSDD041AAPBN

## 60" Stationary Storage, Double Width

| Stationary Storage | Specifications                         | KSDE101AA                        | KSDS081AA                                 | KSDC071AA                        | KSDT051AA                          | KSDB051AA                     | KSDD041AA                    |
|--------------------|--|----------------------------------|---|----------------------------------|------------------------------------|-------------------------------|------------------------------|
|                    | <b>Description</b>                     | Ten-Drawer Double-Wide Eye-Level | Eight-Drawer Double-Wide Standing Counter | Seven-Drawer Double-Wide Counter | Five-Drawer Double-Wide Tall Bench | Five-Drawer Double-Wide Bench | Four-Drawer Double-Wide Desk |
| <b>Capacity</b>    | <b>Square inches (cm<sup>2</sup>)</b>  | 14,803 (95,501)                  | 11,842 (76,401)                           | 10,362 (66,851)                  | 7,401 (47,751)                     | 7,401 (47,751)                | 5,921 (38,201)               |
|                    | <b>Cubic inches (cm<sup>3</sup>)</b>   | 66,168 (1,084,304)               | 48,334 (792,052)                          | 42,703 (699,777)                 | 38,013 (622,929)                   | 31,441 (515,226)              | 25,810 (422,951)             |
| <b>Footprint</b>   | <b>Width, inches (mm)</b>              | 60 (1,524)                       | 60 (1,524)                                | 60 (1,524)                       | 60 (1,524)                         | 60 (1,524)                    | 60 (1,524)                   |
|                    | <b>Depth, inches (mm)</b>              | 29 (737)                         | 29 (737)                                  | 29 (737)                         | 29 (737)                           | 29 (737)                      | 29 (737)                     |
|                    | <b>Height (unit only), inches (mm)</b> | 60-3/4 (1,543)                   | 47-7/16 (1,204)                           | 43 (1,092)                       | 38-1/2 (978)                       | 34-1/8 (867)                  | 29-11/16 (753)               |
| <b>Drawers</b>     | <b>Drawers, quantity</b>               | 10                               | 8   | 7                                | 5                                  | 5                             | 4                            |
|                    | <b>Base Type</b>                       | Pallet Jack                      | Pallet Jack                               | Pallet Jack                      | Pallet Jack                        | Pallet Jack                   | Pallet Jack                  |
|                    | <b>Slides, lb (kg) (ball bearing)</b>  | 227 (103)                        | 227 (103)                                 | 227 (103)                        | 227 (103)                          | 227 (103)                     | 227 (103)                    |
|                    | <b>Double Slide (included)</b>         | Yes (8 drawers)                  | Yes (6 drawers)                           | Yes (5 drawers)                  | Yes (4 drawers)                    | Yes (3 drawers)               | Yes (3 drawers)              |

### Colors Available



Red    Black    Royal Blue    Arctic Silver  
**PBN    PB    PCN    ZBB**

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





**KSSE101AAZBB**



**KSSS081AAPBN**



**KSSC071AAPCN**



**KSST051AAPBN**



**KSSB061AAPB**

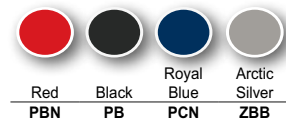


**KSSD041AAPB**

## 30" Stationary Storage, Standard Width

| Stationary Storage | Specifications                         | KSSE101AA                     | KSSS081AA                              | KSSC071AA                     | KSST051AA                       | KSSB061AA                 | KSSD041AA                 |
|--------------------|--|-------------------------------|--|-------------------------------|---------------------------------|---------------------------|---------------------------|
|                    | <b>Description</b>                     | Ten-Drawer Standard Eye-Level | Eight-Drawer Standard Standing Counter | Seven-Drawer Standard Counter | Five-Drawer Standard Tall Bench | Six-Drawer Standard Bench | Four-Drawer Standard Desk |
| <b>Capacity</b>    | <b>Square inches (cm<sup>2</sup>)</b>  | 6,712 (43,302)                | 5,369 (34,641)                         | 4,698 (30,311)                | 3,356 (21,651)                  | 4,027 (25,981)            | 2,685 (17,321)            |
|                    | <b>Cubic inches (cm<sup>3</sup>)</b>   | 31,002 (508,025)              | 31,655 (518,738)                       | 20,062 (328,759)              | 17,736 (290,638)                | 14,429 (236,448)          | 12,103 (198,327)          |
| <b>Footprint</b>   | <b>Width, inches (mm)</b>              | 30 (762)                      | 30 (762)                               | 30 (762)                      | 30 (762)                        | 30 (762)                  | 30 (762)                  |
|                    | <b>Depth, inches (mm)</b>              | 29 (737)                      | 29 (737)                               | 29 (737)                      | 29 (737)                        | 29 (737)                  | 29 (737)                  |
|                    | <b>Height (unit only), inches (mm)</b> | 60-3/4 (1,543)                | 47-7/16 (1,204)                        | 43 (1,092)                    | 38-1/2 (978)                    | 34-1/8 (867)              | 34-1/8 (867)              |
| <b>Drawers</b>     | <b>No. of Drawers</b>                  | 10                            | 8                                      | 5                             | 5                               | 6                         | 4                         |
|                    | <b>Base Type</b>                       | Pallet Jack                   | Pallet Jack                            | Pallet Jack                   | Pallet Jack                     | Pallet Jack               | Pallet Jack               |
|                    | <b>Slides, lb (kg) (ball bearing)</b>  | 227 (103)                     | 227 (103)                              | 227 (103)                     | 227 (103)                       | 227 (103)                 | 227 (103)                 |
|                    | <b>Double Slide (included)</b>         | Yes (8 drawers)               | Yes (6 drawers)                        | Yes (5 drawers)               | Yes (4 drawers)                 | Yes (4 drawers)           | Yes (3 drawers)           |
| <b>Extras</b>      | <b>Work Surface</b>                    | Non-Directional Rubber        | Non-Directional Rubber                 | Non-Directional Rubber        | Non-Directional Rubber          | Non-Directional Rubber    | Non-Directional Rubber    |

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# ACCESSORIES

MAKING A ROLL CAB PERFECT FOR YOUR NEEDS IS ANOTHER THING THAT MAKES SNAP-ON® THE RIGHT CHOICE. WE OFFER ENDLESS OPTIONS FOR CUSTOMIZING AND EXPANDING YOUR TOOL STORAGE TO MEET YOUR NEEDS AT EVERY STAGE OF YOUR CAREER.

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**IF YOU CAN  
IMAGINE IT,  
YOU CAN  
BUILD IT.**

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From handle-mounted laptop holders and automatic WorkCenter LED lights to drawer guards and fronts, we offer the accessories to create a one-of-a-kind tool storage system that's configured for your own personal requirements and taste. And each accessory is built as bulletproof as the roll cab you're adding onto.





**KRSST756**



**KWSP2455AST**

## Stainless Steel Work Surfaces

Stainless steel tops turn roll cabs into moveable workbenches. Constructed from high-grade, 16-gauge 304 stainless steel. Marine edge keeps sockets and parts from rolling off. Tops are 1-7/8" thick. Installation hardware included.

| Stock No.   | Applications   | Width, inches | Depth, inches |
|-------------|--|---------------|---------------|
| KRSST5300   | KRA5318/KRA5311 Roll Cabs  | 53-1/16       | 19-1/2        |
| KRSST4008   | KRA4008/KRA2007 Roll Cabs  | 26            | 19-1/2        |
| KRSST40F    | KRA Series 40" Roll Cabs, Square Corner  | 39-3/4        | 19-1/2        |
| KRSST4107   | KRA Series 40" Roll Cabs with Rounded Corners  | 39-3/4        | 19-1/2        |
| KWSN2920ST  | KRL1098, KRL7011, KRL1011, KRL1015, KRL7015, KMP7099, KMP1099  | 29            | 20            |
| KWSN711ST   | KRL711, KRL715, KMP799   | 24            | 20            |
| KWSN722AST  | KRL722 Series Roll Cabs  | 54            | 24            |
| KRSST756    | KRL756 Series Roll Cabs  | 35-9/16       | 23-7/8        |
| KRSST711    | KRL711/KRL715/KMP799 End Cabs  | 19-7/8        | 23-7/8        |
| KWSP2473AST | KRA2423/KRA2432/KRA2496/KCP2423/KCP1423  | 73            | 23-7/8        |
| KRSST2406   | KRA2406/KRA2406A/KRA1406 End Cabs  | 20            | 23-7/8        |
| KWSP2455AST | KRA2411/KRA2422/KCP2422/KCP1422  | 54-7/16       | 23-7/8        |
| KRSST2407   | KRA2407 Roll Cabs  | 35-7/8        | 23-7/8        |
| KWSN2455AST | KCP1422/KCP2422/KRA2422/KRA2411/KCP1423  | 54-7/16       | 23-7/8        |
| KWSN2473AST | KCP2423/KRA2423/KRA2432/KRA2496  | 73-3/8        | 23-7/8        |
| KRSST7001   | KRL1056 Roll Cabs  | 35-9/16       | 28-15/16      |
| KRSST7011   | KRL7011/KRL7015/KRL1011/KRL1015/KRL1098/KMP1099/KMP7099 End Cabs   | 19-7/8        | 28-15/16      |
| KWSP2954AST | KRL1022/KTL1022/KRL7022/KMP1022  | 54-7/16       | 29            |
| KWSP2973AST | KRL1163/KRL1023/KRL1032/KRL7023/KRL1033/KMP1163/KTL7023/KTL1023  | 73            | 29            |
| KWSP3060DST | KERN602, KERE602, KETN602, KETE602   | 60            | 30            |
| KWSP3068DST | KERN682, KERE682, KETN682, KETE682, KERP682, KERR682, KETP682, KETR682                                     | 68            | 30            |
| KWSP3084DST | KERN843, KERE843, KERP843, KERR843, KERN842, KERE842, KERP842, KERR842, KETP843, KETR843, KETN843, KETE843 | 84            | 30            |
| KWSN3010AST | KEXN603A/KEXP603A Roll Cabs  | 120           | 30            |
| KWSN3012AST | KEXN724A/KEXP724A/KEXN725A/KEXP725A EPIQ Roll Cabs   | 144           | 30            |
| KWSN3030AST | KEBP301A/KEBN301A EPIQ End Cabinet   | 30            | 30            |
| KWSN3060BST | KERN602/KETN602/KERE602/KETE602  | 60            | 30            |
| KWSN3068BST | KERN682/KETN682/KERP682/KETP682  | 68            | 30            |
| KWSN3076BST | KERP762/KERP763 EPIQ Roll Cabs   | 76            | 30            |
| KWSN3084BST | KERN842/KERP842/KERN843/KERP843/KETN843/KETP843  | 84            | 30            |
| KS2924ASTN  | 22-1/2" Stationary Storage   | 22-3/8        | 29            |
| KS2930ASTN  | 30" Stationary Storage   | 30            | 29            |
| KS2936ASTN  | 35-5/8" Stationary Storage   | 35.51         | 29            |
| KS2945ASTN  | 45" Stationary Storage   | 44-7/8        | 29            |
| KS2960ASTN  | 60" Stationary Storage   | 59-7/8        | 29            |
| KS2972ASTN  | 72" Stationary Storage   | 71-5/32       | 29            |
| KS2990ASTN  | 90" Stationary Storage   | 89-7/8        | 29            |



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

## ACCESSORIES: WORK SURFACES

JKRR2411CR



### Non-Directional Rubber Mats

Non-directional rubber top mats protect tool storage units from damage. Light weight, fine textured, all rubber construction. Will not shrink, curl or separate. Clean easily and quickly. Impervious to most oil and chemicals.

| Stock No.   | Use On   |
|-------------|--|
| JKRR10011CR | KRL1022/KRL7022 Series Roll Cabs                 |
| JKRR1003CR  | KRL1023/KRL1032/KRL7023/KRL1033 Series Roll Cabs |
| JKRR1056CR  | KRL1056 Series Roll Cabs                         |
| JKRR761CR   | KRL722 Series Roll Cabs                          |
| JKRR756CR   | KRL7565 Series Roll Cabs                         |
| JKRR1010CR  | KRL1011/KRL7011/KRL7015/KRL1015 Series End Cabs  |
| JKRR7012CR  | KRL1012/KRL7012/KRLV1012 Series Lockers          |
| JKRR711CR   | KRL711 Series End Cabs                           |
| JKRR712CR   | KRL712 Series Lockers                            |
| JKRR3800CR  | KRA4107/KRA4800 Series Roll Cabs                 |
| JKRR379ACR  | KRA4007/KRA3027/KRA3025 Series Roll Cabs         |

| Stock No.    | Use On   |
|--------------|--|
| JKRR2411CR   | KCP1422/KRA2422/KRA2411 Series Roll Cabs         |
| JKRR2418CR   | KCP1423/KRA2423/KRA2418/KRA2432 Series Roll Cabs |
| JKRR3820CR   | KRA4820/KRA4833 End Cabs, KRA5012 Locker         |
| KWSN3060ACR  | EPIQ Series Roll Cabs (60")                      |
| KWSN3068ACR  | EPIQ Series Roll Cabs (68")                      |
| KWSN3076ACR  | EPIQ Series Roll Cabs (76")                      |
| KWSN3084ACR  | EPIQ Series Roll Cabs (84")                      |
| KWSN30120ACR | EPIQ KEXN603A Series Roll Cabs (120")            |
| KWSN30144ACR | EPIQ KEXN725A/KEXP725A Series Roll Cabs (144")   |
| JKRR378ACR   | KRA4008/KRA2007 Series Roll Cabs                 |
| JKRRSC30R    | KRSC323/KRSC33 Series Roll Carts                 |



KRBLT1011

### Steel Work Surfaces

The steel work surface is coated with a substance similar to that used in truck beds. Extremely durable, easy to clean, chemical and abrasion resistant, and won't crack or peel. Installation hardware is included. Tops are 1-7/8" thick.

| Stock No.   | Applications   | Width, inches | Depth, inches |
|-------------|--|---------------|---------------|
| KRBLT5311   | KRA5311, KRA5318   | 53-3/4        | 19-1/2        |
| KWSN2920BL  | KRL1098, KRL7011, KRL1011, KRL1015, KRL7015, KMP7099, KMP1099  | 29            | 20            |
| KWSN711ST   | KRL711, KRL715, KMP799   | 24            | 20            |
| KRBLT2406   | KRA2406/KRA2406A/KRA1406 End Cabs  | 20            | 24            |
| KRBLT2407   | KRA2407  | 36            | 24            |
| KWSN2455ABL | KCP1422/KCP2422/KRA2422/KRA2411/KCP1423  | 54-7/16       | 24            |
| KRBLT711    | KRL711, KRL715   | 19-7/8        | 24            |
| KRBLT756    | KRL756   | 36            | 24            |
| KWSP2455ABL | KRA2411/KRA2422/KCP2422/KCP1422  | 54-7/16       | 24            |
| KWSP2473ABL | KRA2423/KRA2432/KRA2496/KCP2423/KCP1423  | 73            | 24            |
| KWSN722ABL  | KRL722 Series Roll Cabs  | 54-3/16       | 24            |
| KWSP2973ABL | KRL1163/KRL1023/KRL1032/KRL7023/KRL1033/KMP1163/KTL7023/KTL1023  | 73            | 29            |
| KWSN2973ABL | KMP1163/KRL1163/KRL1023/KRL1032/KRL7023/KRL1033/KTL7023  | 72-13/16      | 29            |
| KRBLT1011   | KRL1011, KRL7011, KRL1015, KRL7015   | 19-7/8        | 29            |
| KWSN2954ABL | KRL1022/KRL7022/KTL1022/KMP1022  | 54-3/16       | 29            |
| KWSP2954ABL | KRL1022/KTL1022/KRL7022/KMP1022  | 54            | 29            |
| KS2924ABL   | 22-1/2" Stationary Storage   | 22-7/16       | 29            |
| KS2930ABL   | 30" Stationary Storage   | 30            | 29            |
| KS2936ABL   | 35-5/8" Stationary Storage   | 35-1/2        | 29            |
| KS2945ABL   | 45" Stationary Storage   | 44-7/8        | 29            |
| KS2960ABL   | 60" Stationary Storage   | 59-7/8        | 29            |
| KS2972ABL   | 72" Stationary Storage   | 71-5/32       | 29            |
| KS2990ABL   | 90" Stationary Storage   | 89-7/8        | 29            |
| KWSN3010ABL | KEXN603A/KEXP603A Roll Cabs  | 120           | 30            |
| KWSN3012ABL | KEXN724A/KEXP724A/KEXN725A/KEXP725A EPIQ Roll Cabs   | 144           | 30            |
| KWSN3030ABL | KEBP301A/KEBN301A EPIQ End Cabinet   | 30            | 30            |
| KWSN3060ABL | KERN602/KETN602/KERE602/KETE602  | 60            | 30            |
| KWSN3068ABL | KERN682/KETN682/KERP682/KETP682  | 68            | 30            |
| KWSN3076ABL | KERP762/KERP763 EPIQ Roll Cabs   | 76            | 30            |
| KWSN3084ABL | KERN842/KERP842/KERN843/KERP843/KETN843/KETP843  | 84            | 30            |
| KWSP3060CBL | KERN602, KERE602, KETN602, KETE602   | 60            | 30            |
| KWSP3068CBL | KERN682, KERE682, KETN682, KETE682, KERP682, KERR682, KETP682, KETR682                                     | 68            | 30            |
| KWSP3084CBL | KERN843, KERE843, KERP843, KERR843, KERN842, KERE842, KERP842, KERR842, KETP843, KETR843, KETN843, KETE843 | 84            | 30            |

## Hardwood Tops

Northern hard maple butcher block tops allow roll cabs to double as full length workbenches. Tops are 1-3/4" thick.



**KRWT7002A**

| Stock No.   | Applications   | Width, inches | Depth, inches |
|-------------|--|---------------|---------------|
| KRWT5000A   | KRA5213/KRA5319/KRA2306/KRA2300 Series Roll Cabs (Rounded) | 53-1/16       | 19-7/16       |
| KRWT4800B   | KRA4107/KRA4813 Roll Cabs (Rounded)                        | 39-3/4        | 19-7/16       |
| KRWT26F     | KRA4008F/KRA2007F Square Corner                            | 26            | 19-7/16       |
| KRWT40F     | 40" Roll Cabs Square Corner                                | 39-3/4        | 19-7/16       |
| KRWT5300    | KRA5318/KRA5311 Roll Cabs (Square)                         | 53-1/16       | 19-7/16       |
| KRWT4008    | KRA4008E/KRA2007 Roll Cabs (Rounded)                       | 26            | 19-7/16       |
| KRWT761B    | KRL722 Roll Cabs   | 53-3/4        | 22-9/16       |
| KRWT756A    | KRL756 Roll Cabs   | 35-1/8        | 22-9/16       |
| KRWT711A    | KRL711/KRL715/KMP799 End Cabs                              | 19-5/16       | 22-5/8        |
| KRWT2411    | KCP1422/KRA2411/KRA2422 Roll Cabs                          | 54-11/16      | 23-11/16      |
| KRWT2418    | KCP1423/KRA2423/KRA2418/KRA2432/KRA2496/KCP2423 Roll Cabs  | 73-3/8        | 23-11/16      |
| KRWT2407    | KRA2407 Roll Cabs  | 35-7/8        | 23-11/16      |
| KRWT7002A   | KRL1022/KRL7022/KMP1022 Roll Cabs                          | 53-11/16      | 27-5/8        |
| KRWT7003A   | KTL1023/KRL1023/KRL1032/KRL1033/KRL7023/KMP1163 Roll Cabs  | 72-5/16       | 27-5/8        |
| KRWT7001A   | KRL1056 Roll Cabs  | 35-1/8        | 27-5/8        |
| KRWT7011A   | KRL7011/KRL7015/KTL1011/KRL1015/KMP1099/KMP7099 End Cabs   | 19-5/16       | 27-5/8        |
| KWS2924AWT  | 22-1/2" Stationary Storage                                 | 22-3/8        | 29            |
| KWS2936AWT  | 35-5/8" Stationary Storage                                 | 35-1/2        | 29            |
| KWS2960AWT  | 60" Stationary Storage                                     | 59-7/8        | 29            |
| KWS2930AWT  | 30" Stationary Storage                                     | 29-7/8        | 29            |
| KWS2945AWT  | 45" Stationary Storage                                     | 44-7/8        | 29            |
| KWS2972AWT  | 72" Stationary Storage                                     | 71-1/6        | 29            |
| KWS2990AWT  | 90" Stationary Storage                                     | 89-7/8        | 29            |
| KWSN3010AWT | KEXN603A/KEXP603A Roll Cabs                                | 120           | 30            |
| KWSN3012AWT | KEXN724A/KEXP724A/KEXN725A/KEXP725A EPIQ Roll Cabs         | 144           | 30            |
| KWSN3030AWT | KEBP301A/KEBN301A EPIQ End Cabinet                         | 30            | 30            |
| KWSN3060AWT | KERN602/KETN602/KERE602/KETE602                            | 60            | 30            |
| KWSN3068AWT | KERN682/KETN682/KERP682/KETP682                            | 68            | 30            |
| KWSN3076AWT | KERP762/KERP763 EPIQ Series Roll Cabs                      | 76            | 30            |
| KWSN3084AWT | KERN842/KERP842/KERN843/KERP843/KETN843/KETP843            | 84            | 30            |

## Roll Cart Top Mats

High durability rubber mats are designed to fit over the lid on most 32–33" and 40" Snap-on® Roll Carts.

- Molded manufacturing process provides a raised edge around the entire top surface and under surface to help keep parts and spills contained
- Mats have edge underneath to position them properly on the lid
- Two wide peel-off strips expose application adhesive (3M® #9425) to keeps the mat in place when raising and lowering the lid
- Made from SBR rubber—a strong synthetic rubber commonly used in truck tires, then primer sprayed, to give it strong working properties



**JKRR46GW55AG**

| Stock No.     | Use On                              | Dimensions, inches          |
|---------------|-------------------------------------|-----------------------------|
| JKRR430W55A** | KRSC430A Roll Carts (2 included)    | 20-1/2 W x 20-1/2 D x 5/8 H |
| JKRR33W55A    | KRSC323/KRSC33A/KRSC326F Roll Carts | 33 W x 20-1/2 D x 5/8 H     |
| JKRR46GW55*   | KRSC46 Roll Carts                   | 41 W x 20-1/2 D x 5/8 H     |
| JKRR343W55A † | KRSC343 Roll Carts (2 included)     | 16-1/2 W x 20-1/2 D x 5/8 H |

### Colors Available

|       |     |                     |        |       |               |            |
|-------|-----|---------------------|--------|-------|---------------|------------|
|       |     |                     |        |       |               |            |
| Black | Red | Red with Black Logo | Orange | Green | Midnight Blue | Storm Gray |
| *     | —   | —                   | O      | G     | —             | —          |
| **    | A   | AK                  | O      | G     | M             | S          |
| †     | K   | A                   | —      | G     | M             | S          |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

## ACCESSORIES: WORK SURFACES



JKRR1056CR



JKRR3820R



JKRR763R

### Ribbed Rubber Mats

| Stock No.   | Use On   |
|-------------|--|
| JKRR10011CR | KRL1022/KRL7022 Series Roll Cabs                 |
| JKRR10011R  | KTL1022/KRL1022/KRL7022 Series Roll Cabs         |
| JKRR1003R   | KRL1023/KRL1032/KRL7023/KRL1033 Series Roll Cabs |
| JKRR1010R   | KRL1011/KRL7011/KRL7015/KRL1015 Series End Cabs  |
| JKRR1024R   | KRL1024/KRL1043 Series Roll Cabs                 |
| JKRR1056CR  | KRL1056 Series Roll Cabs                         |
| JKRR1056R   | KRL1056 Series Roll Cabs                         |
| JKRR2411R   | KCP1422/KRA2422/KRA2411 Series Roll Cabs         |
| JKRR2418R   | KCP1423/KRA2423/KRA2432 Series Roll Cabs         |
| JKRR379AR   | KRA4008/KRA2007 Series Roll Cabs                 |
| JKRR3800R   | KRA4107/KRA4800 Series Roll Cabs                 |
| JKRR3820R   | KRA4820/KRA4833 End Cabs, KRA5012 Locker         |
| JKRR412AR   | KRA412G  |
| JKRR488R    | KR488/KRBC2T/KRBC3TA Roll Carts (Square Leg)     |
| JKRR7012R   | KRL1012/KRL7012/KRLV7012 Series Lockers          |
| JKRR7065R   | KRL7065/KRL1065 Series Roll Cabs                 |
| JKRR711R    | KRL711 Series End Cabs                           |
| JKRR712R    | KRL712 Series Lockers                            |
| JKRR756CR   | KRL7565 Series Roll Cabs                         |
| JKRR756R    | KRL756 Series Roll Cabs                          |
| JKRR761R    | KRL722 Series Roll Cabs                          |
| JKRR763R    | KRL763 Series Roll Cabs                          |



KAC242210RDS



KAC761EOS



KAC761EGS



KAC241815PKS



KAC761RBS

### Color "S" Logo Covers

| Stock No.    | Cover Description  |
|--------------|--|
| KAC761RDS    | KRL722/KRA2411/KRA2422/KCP2422 Cover   |
| KAC761791RDS | KRL722/KRL791A or KRL722/KRA2411/KCP2422 Roll Cab with Top Chest Cover   |
| KAC773RDS    | KRA2423/KCP2423 Cover  |
| KAC242210RDS | KRA2422/KRA2411 Roll Cab/KCP2422/KRA2454 Riser/KRA2410 Top Chest Combination Cover or KRL722/KRA2454 Combination Cover |
| KAC241815RDS | KCP2423/KRA2423 Roll Cab with a KRA2472 riser or KRA2415 top chest   |

Color shown are applicable to all above SKUs. All are accent colors on black cover.

#### Colors Available



RDS EOS EGS PK RBS CAS PC

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## EPIQ Series Roll Cab Covers

- Heavy-duty nylon zippers
- High-quality 200 Denier® nylon
- Bright silver Snap-on® logo

| Stock No.    | Cover Description                                     | Stock No.    | Cover Description                                     |
|--------------|---|--------------|---|
| KAC304836BK  | 36" KEMN361B EPIQ SideKIQ™ Roll Cart                  | KAC3076196BK | 76" EPIQ Roll Cab, WorkCenter, (4) Lockers            |
| KAC304236BK  | 36" KEMW361A Cover                                    | KAC3076204BK | 84" EPIQ Roll Cab, WorkCenter, (4) Lockers            |
| KAC304860BK  | KERN602/KETN602 Cover                                 | KAC307660BK  | 60" EPIQ Roll Cab and WorkCenter                      |
| KAC304868BK  | KERN682/KETN682/KERP682/KETP682 Cover                 | KAC307668BK  | 68" EPIQ Roll Cab and WorkCenter                      |
| KAC304876BK  | KERP762/KERP763 Cover                                 | KAC307676BK  | 76" EPIQ Roll Cab and WorkCenter                      |
| KAC304884BK  | KERN842/KERP842/KERN843/KERP843/KETN843/KETP843 Cover | KAC307684BK  | 84" EPIQ Roll Cab and Workcenter                      |
| KAC3048120BK | KEXN603/KEXP603 Cover                                 | KAC3097120BK | 60" EPIQ Roll Cab, WorkCenter, Overheads, (2) Lockers |
| KAC3048144BK | KEXN725/KEXP725/KEXN724/KEXP724 Cover                 | KAC3097128BK | 68" EPIQ Roll Cab, WorkCenter, Overheads, (2) Lockers |
| KAC307690BK  | 60" EPIQ Roll Cab, WorkCenter, (1) Locker             | KAC3097136BK | 76" EPIQ Roll Cab, WorkCenter, Overheads, (2) Lockers |
| KAC307698BK  | 68" EPIQ Roll Cab, WorkCenter, (1) Locker             | KAC3097144BK | 84" EPIQ Roll Cab, WorkCenter, Overheads, (2) Lockers |
| KAC3076106BK | 76" EPIQ Roll Cab, WorkCenter, (1) Locker             | KAC3097180BK | 60" EPIQ Roll Cab, WorkCenter, Overheads, (4) Lockers |
| KAC3076114BK | 84" EPIQ Roll Cab, WorkCenter, (1) Locker             | KAC3097188BK | 68" EPIQ Roll Cab, WorkCenter, Overheads, (4) Lockers |
| KAC3076120BK | 60" EPIQ Roll Cab, WorkCenter, (2) Lockers            | KAC3097196BK | 76" EPIQ Roll Cab, Workcenter, Overheads, (4) Lockers |
| KAC3076128BK | 68" EPIQ Roll Cab, WorkCenter, (2) Lockers            | KAC3097204BK | 84" EPIQ Roll Cab, WorkCenter, Overheads, (4) Lockers |
| KAC3076136BK | 76" EPIQ Roll Cab, WorkCenter, (2) Lockers            | KAC309760BK  | 60" EPIQ Roll Cab, WorkCenter, Overhead               |
| KAC3076144BK | 84" EPIQ Roll Cab, WorkCenter, (2) Lockers            | KAC309768BK  | 68" EPIQ Roll Cab, WorkCenter, Overhead               |
| KAC3076180BK | 60" EPIQ Roll Cab, WorkCenter, (4) Lockers            | KAC309776BK  | 76" EPIQ Roll Cab, WorkCenter, Overhead               |
| KAC3076188BK | 68" EPIQ Roll Cab, WorkCenter, (4) Lockers            | KAC309784BK  | 84" EPIQ Roll Cab, WorkCenter, Overhead               |



KAC307660BK

## Covers

| Stock No. | Cover Description  |
|-----------|--|
| KAC2403AL | KRA2403A Locker Full Height (Left, no logo)<br>Fit to KAC242210  |
| KAC2403AR | KRA2403A Locker Full Height (Right, no logo)<br>Fit to KAC242210 |
| KAC1423   | KCP1423 Roll Cab   |
| KAC1423TL | KCP1423 Roll Cab, Top and (1) Locker (covers all three pieces)   |
| KAC142310 | KCP1423 Roll Cab/Top Chest or Work Center Combination            |
| KAC1422   | KCP1422 Roll Cab   |
| KAC1403L  | KRA1403 Locker (Left) for KCP1422/KCP1423 (no logo)              |
| KAC1403R  | KRA1403 Locker (Right) for KCP1422/KCP1423 (no logo)             |
| KAC142210 | KCP1422 Roll Cab/Top Chest or Work Center Combination            |

Color shown are applicable to all above SKUs. All are accent colors on black cover.



KAC1003

## Roll Cart/Road Chest Covers

| Black Stock No. | Cover Description                        |
|-----------------|--|
| KAC6200PC *     | KRA6200 Road Chest Waterproof            |
| KAC6210PC *     | KRA6210 Road Chest Waterproof            |
| KACSC30PC       | KRSC323/KRSC326/KRSC33 Series Roll Carts |
| KACSC40APC      | KRSC430A/KRSC416/KRSC46 Roll Carts       |

### Colors Available



Black

Red

\* PC

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



KAC6200PC



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

## ACCESSORIES: COVERS



**KAC1003**



**KAC1001PCM**

### KRL1000 Series Storage Unit Covers

- Heavy-duty nylon zippers
- High-quality 200 Denier nylon
- Snap-on® logo

| Cover Description  | Red       | Black       | Candy Apple Red | Extreme Green | Electric Orange | Pink         | Royal Blue                |
|--|-----------|-------------|-----------------|---------------|-----------------|--------------|---------------------------|
| KMP1022/KTL1022/<br>KRL1022 Cover  | KAC1001   | KAC1001PC   | KAC1001CAS      | KAC1001EGS    | KAC1001EOS      | —            | KAC1001RBS                |
| KMP1022, KTL1022<br>or KRL1022/KRL7954/<br>KRL5445 54" Roll Cab with<br>WorkCenter or Top Chest<br>with Locker Cover   | KAC100112 | KAC100112PC | —               | —             | —               | —            | KAC100112PCM              |
| KMP1022, KTL1022<br>or KRL1022/KRL7954/<br>KRL5445 54" Roll Cab with<br>WorkCenter or Top Chest<br>with Locker Cover   | KAC1001TL | KAC1001TLPC | —               | —             | —               | —            | KAC1001PCM                |
| KRL 54" Roll Cabs/<br>WorkCenter, or Top Chest/<br>Locker Cover  | —         | —           | KAC1001TLCAS    | KAC1001TLEGS  | KAC1001TLEOS    | KAC1001TLPKS | KAC1001TLRBS              |
| KMP1022, KTL1022 or<br>KRL1022/KRL1201A/<br>KRL1012 or KRL1054 Roll<br>Cab with WorkCenter   | KAC1001WD | KAC1001WDPC | —               | —             | —               | —            | KAC1001WDPCM              |
| KTL 1023/KMP1163/<br>KRL1023/KRL1032/<br>KRL1033 Roll Cab Cover  | KAC1003   | KAC1003PC   | KAC1003CAS      | KAC1003EGS    | KAC1003EOS      | —            | KAC1003RBS,<br>KAC1003PCM |
| KRL 72" Roll Cabs/<br>WorkCenter, or Top Chest/<br>Locker Cover  | —         | —           | KAC1003TLCAS    | KAC1003TLEGS  | KAC1003TLEOS    | KAC1003TLPKS | KAC1003TLRBS              |
| KRL 1023, KRL1163,<br>KRL1033, KRL1032,<br>KRL7972/KRWL3625,<br>KTL1023, KMP1163   | KAC1003WD | KAC1003WDPC | —               | —             | —               | —            | KAC1003WDPCM              |
| KRL1011A/KRL1015A End<br>Cab Cover (Left Side)   | KAC1011L  | KAC1011LPC  | —               | —             | —               | —            | KAC1011LPCM               |
| KRL1011A/KRL1015A End<br>Cab Cover (Right Side)  | KAC1011R  | KAC1011RPC  | —               | —             | —               | —            | KAC1011RPCM               |
| KRL1012A Locker Cover<br>(Left Side)   | KAC1012L  | KAC1012LPC  | —               | —             | —               | —            | KAC1012LPCM               |
| KRL1012A Locker Cover<br>(Right Side)  | KAC1012R  | KAC1012RPC  | —               | —             | —               | —            | KAC1012RPCM               |
| KRL 1022/KRL7954/<br>KRL5445 Roll Cab with<br>WorkCenter Cover   | —         | KAC102245PC | —               | —             | —               | —            | —                         |
| KRL 1023, KRL1163,<br>KRL1033, KRL1032/<br>KRL1203/KRL7245,<br>KRL1023, KRL1163,<br>KRL1033, KRL1032/<br>KRL1072, KRL7972/<br>KRL7245 Roll Cab with<br>Workcenter and Overhead | KAC102345 | KAC102345PC | —               | —             | —               | —            | —                         |
| KRL1053 Cover  | —         | KAC1053PC   | —               | —             | —               | —            | —                         |
| KRL1056 Roll Cab Cover   | KAC1056   | KAC1056PC   | —               | —             | —               | —            | KAC1056PCM                |
| —  | KAC1056WD | KAC1056WDPC | —               | —             | —               | —            | KAC1056WDPCM              |
| KRL1065 Cover  | KAC1065   | KAC1065PC   | —               | —             | —               | —            | —                         |
| KRL 1023, KRL1163,<br>KRL1033, KRL1032/<br>KRL1072, KRL1203, 7972<br>Roll Cab with Workcenter or<br>Top Chest  | KAC13123  | KAC13123PC  | —               | —             | —               | —            | KAC13123PCM               |
| KRL1056/KRL1251 Roll<br>Cab and Top Chest Cover  | KAC161251 | KAC161251PC | —               | —             | —               | —            | KAC161251PCM              |

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





**KAC711L**



**KAC711RPC**



**KAC761PCM**

**KRL700 and Classic Series Storage Unit Covers**

| Cover Description   | Red Stock No.    | Black Stock No.    | Royal Blue Stock No. |
|---|------------------|--------------------|----------------------|
| KRL722/KRA2411 Roll Cab Cover                                   | <b>KAC761</b>    | <b>KAC761PC</b>    | <b>KAC761PCM</b>     |
| KRL722/KRL791A or KRL722 Roll Cab with Top Chest Cover          | <b>KAC761791</b> | <b>KAC761791PC</b> | <b>KAC761791PCM</b>  |
| KRL722/KRL791A/ KRL712 Roll Cab with Top Chest and Locker Cover | <b>KAC761TL</b>  | <b>KAC761TLPC</b>  | —                    |
| KRL756 or KRA2407 Roll Cab Cover                                | <b>KAC756</b>    | <b>KAC756PC</b>    | <b>KAC756PCM</b>     |
| KRL756/KRL751 or KRA2407/KRA2404 Roll Cab with Top Chest Cover  | <b>KAC756731</b> | <b>KAC756731PC</b> | —                    |
| KMP799/KRL711/ KRL715 End Cab Cover (Left Side)                 | <b>KAC711L</b>   | <b>KAC711LPC</b>   | <b>KAC711LPCM</b>    |
| KMP799/KRL711/ KRL715 End Cab Cover (Right Side)                | <b>KAC711R</b>   | <b>KAC711RPC</b>   | <b>KAC711RPCM</b>    |
| KRL712 Locker Cover (Left Side)                                 | <b>KAC712L</b>   | <b>KAC712LPC</b>   | <b>KAC712LPCM</b>    |

| Cover Description  | Red Stock No.       | Black Stock No.    | Royal Blue Stock No. |
|--|---------------------|--------------------|----------------------|
| KRL712 Locker Cover (Right Side)   | <b>KAC712R</b>      | <b>KAC712RPC</b>   | <b>KAC712RPCM</b>    |
| KCP2423/KRA2423/ KRA2496/KRA2432 Cover   | <b>KAC773</b>       | <b>KAC773PC</b>    | —                    |
| KCP2423 Roll Cab/ Chest Cover  | <b>KAC773793</b>    | <b>KAC773793PC</b> | —                    |
| KRA2418/KRA2432/ KRA2496 with KRA2472 Cover  | <b>KAC241815RDS</b> | <b>KAC241815PC</b> | <b>KAC241815RBS</b>  |
| KRA2407 Roll Cab/ KRA2405 Chest Cover  | —                   | <b>KAC240705PC</b> | —                    |
| KRA2422/KRA2411 Roll Cab/KCP2422/ KRA2454 Riser/ KRA2410 Top Chest Combination Cover | <b>KAC242210RDS</b> | <b>KAC242210PC</b> | <b>KAC242210RDS</b>  |

**KRA5000/KRA4000 Series Storage Unit Covers**

| Cover Description  | Red                | Black              | Royal Blue          |
|--|--------------------|--------------------|---------------------|
| KRA5000 Series/KRA2300 Series Roll Cab Cover/53" Roll Cabs                         | <b>KAC5000</b>     | <b>KAC5000PC</b>   | <b>KAC5000PCM</b>   |
| KRA5000/KRA2300 Series Roll Cab/Top Chest Cover/53" Roll Cab/Top Chest Combination | <b>KAC530015</b>   | <b>KAC530015PC</b> | <b>KAC530015PCM</b> |
| KRA5012 Locker Cover, Left Side  | <b>KAC5012L</b>    | <b>KAC5012LPC</b>  | <b>KAC5012LPCM</b>  |
| KRA5012 Locker Cover, Right Side   | <b>KAC5012R</b>    | <b>KAC5012RPC</b>  | <b>KAC5012RPCM</b>  |
| KRA4000/2100 Series 40" Roll Cab Cover   | <b>KAC4800</b>     | <b>KAC4800PC</b>   | <b>KAC4800PCM</b>   |
| KRA4000/KRA2100 Series 40" Roll Cab/Top Chest Combination Cover                    | <b>KAC48004810</b> | <b>KAC480010PC</b> | <b>KAC480010PCM</b> |
| KRA4000 Series 40" Roll Cab/Drawer Section/Top Chest Combinations                  | <b>KAC48006010</b> | <b>KAC486010PC</b> | <b>KAC486010PCM</b> |
| KRA Series End Cabs Cover, Left Side   | <b>KAC4820L</b>    | <b>KAC4820LPC</b>  | <b>KAC4820LPCM</b>  |
| KRA Series End Cabs Cover, Right Side  | <b>KAC4820R</b>    | <b>KAC4820RPC</b>  | <b>KAC4820RPCM</b>  |
| KRA4008/KRA2007 Roll Cab Cover   | <b>KAC4007</b>     | <b>KAC4007PC</b>   | <b>KAC4007PCM</b>   |
| KRA4000 Series 26" Roll Cab/Top Chest Combination Cover                            | <b>KAC40074014</b> | <b>KAC400714PC</b> | <b>KAC400714PCM</b> |
| KRA4059 Series   | <b>KRAC59</b>      | —                  | —                   |

**KRL7000 Series Storage Unit Covers**

| Cover Description   | Red             | Black              | Royal Blue         |
|---|-----------------|--------------------|--------------------|
| KRL7022 Roll Cab Cover  | <b>KAC7002</b>  | <b>KAC7002PC</b>   | <b>KAC7002PCM</b>  |
| KTL7023/KRL7023 Roll Cab Cover  | <b>KAC7003</b>  | <b>KAC7003PC</b>   | <b>KAC7003PCM</b>  |
| KMP7099/KRL7011A/KRL7015A/KRLV7015 End Cab Cover (Left Side)                    | <b>KAC7011L</b> | <b>KAC7011LPC</b>  | <b>KAC7011LPCM</b> |
| KMP7099/KRL7011A/KRL7015A/KRLV7015 End Cab Cover (Right Side)                   | <b>KAC7011R</b> | <b>KAC7011RPC</b>  | <b>KAC7011RPCM</b> |
| KRL7012 Locker Cover (Left Side)  | <b>KAC7012L</b> | <b>KAC7012LPC</b>  | <b>KAC7012LPCM</b> |
| KRL7012 Locker Cover (Right Side)   | <b>KAC7012R</b> | <b>KAC7012RPC</b>  | <b>KAC7012RPCM</b> |
| KRL7022 with KRL7954/KRL5445 Cover  | —               | <b>KAC702245PC</b> | —                  |
| KTL7023/KRL7023 with KRL7972/KRL7245 (2) Cover                                  | —               | <b>KAC702345PC</b> | —                  |
| KRL7022/KRL1201 or KRL1054 Roll Cab with Wsrkcenter or Top Chest Cover          | <b>KAC72121</b> | <b>KAC72121PC</b>  | <b>KAC72121PCM</b> |
| KTL7023/KRL7023/KRL1203A or KRL1072 Roll Cab with Workcenter or Top Chest Cover | <b>KAC73123</b> | <b>KAC73123PC</b>  | <b>KAC73123PCM</b> |



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

## BODY GUARDS: EPIQ/MASTERS SERIES



KABGPERN602A

### EPIQ Series Body Guards

| Stock No.    | Applications                     |
|--------------|----------------------------------|
| KABGSERN602A | KERN602 Series Roll Cabs Brushed |
| KABGSERN682A | KERN682 Series Brushed           |
| KABGSERN842A | KERN842 Series Brushed           |
| KABGSERN843A | KERN843 Series Brushed           |
| KABGSERP762A | KERP762 Series Brushed           |
| KABGSERP763A | KERP763 Series Brushed           |
| KABGSERP842A | KERP842 Series Brushed           |
| KABGSERP843A | KERP843 Series Brushed           |

| Stock No.    | Applications            |
|--------------|-------------------------|
| KABGPERN602A | KERN602 Series Polished |
| KABGPERN682A | KERN682 Series Polished |
| KABGPERN842A | KERN842 Series Polished |
| KABGPERN843A | KERN843 Series Polished |
| KABGPERP762A | KERP762 Series Polished |
| KABGPERP763A | KERP763 Series Polished |
| KABGPERP842A | KERP842 Series Polished |
| KABGPERP843A | KERP843 Series Polished |

Bottom guards only. Does not include top guards.



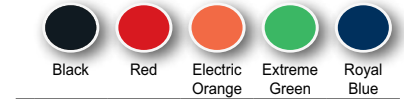
KABG1023APBO

### Masters Series Body Guards

• Note: KABG1022 Body Guards do not fit the KRL1022D and KRL1022D Series.

| Stock No.  | Applications                       |
|------------|------------------------------------|
| KABG1023A* | KRL1023, KRL1163, KRL7023, KRL7003 |
| KABG1032B  | KRL1032B, KRL1032C                 |
| KABG1033** | KRL1033                            |

#### Colors Available



|    |     |     |     |     |
|----|-----|-----|-----|-----|
| *  | PBO | PJK | PJJ | PCM |
| ** | PBO | PJK | PJJ | PCM |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## BOTTOM GUARDS: CLASSIC SERIES

### Classic Series Bottom Guards

Protective bottom panel is coated in actual Snap-on® powder coat paint colors.

- Laser cut Snap-on® logo
- Fits Double Bank (KABG2422) and Triple Bank (KABG2423) Classic Roll Cabs, including KCP1422 AND KCP1423
- Bottom guard is made from stainless steel for corrosion protection
- Provides scratch protection
- Available in seven powder coated colors: Snap-on® Red (PBO), Royal Blue (PCM), Candy Apple Red (PJH), Extreme Green (PJJ), Electric Orange (PJK), Hot Pink (PNK) Gloss Black (B) and brushed stainless steel (no suffix)

| Stock No.     | Description                  |
|---------------|------------------------------|
| KABG2422PBO*  | Bottom Guard                 |
| KABG2423RT5** | Bottom Guard Realtree Max-5® |
| KABG1422TN*** | Bottom Guard                 |

#### Colors Available



|     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|----|
| *   | PBO | PJK | PJJ | PNK | PJH | RT4 | —   | —  |
| **  | —   | —   | —   | —   | —   | —   | RT5 | —  |
| *** | —   | —   | —   | —   | —   | —   | —   | TN |

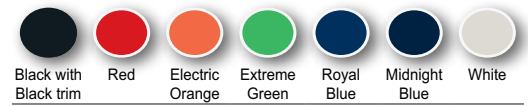
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## ACCESSORIES: TOOL UTILITY VEHICLE (TUV)

### Body Guards

| Stock No.  | Description    | Applications |
|------------|----------------|--------------|
| KABGVP1022 | Body Guard Set | KRP1022      |
| KABGVP1023 | Body Guard Set | KRP1023      |
| KABGVP1032 | Body Guard Set | KRP1032      |
| KABGVT1022 | Body Guard Set | KRT1022      |
| KABGVT1023 | Body Guard Set | KRT1023      |
| KABGVT1032 | Body Guard Set | KRT1032      |

#### Colors Available



|     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|----|
| POT | PBO | PJK | PJJ | PCM | PDG | PU |
|-----|-----|-----|-----|-----|-----|----|

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Roll Cab Top Mats**

- Vinyl resists most shop chemicals
- Snap-on® “S” logo matches roll cab color
- Smooth surface is easier to clean and write on

| 7000/1000 | Extreme Green | Electric Orange | Red          |
|-----------|---------------|-----------------|--------------|
| 7023/1023 | JKRR1023BVGS  | JKRR1023BVOS    | JKRR1023BVRS |
| 7022/1022 | JKRR7022BVGS  | JKRR7022BVOS    | JKRR7022BVRS |



JKRR1023BVGS



JKRR1023BVOS

**Roll Cab Protective Side Panels**

- Protects roll cab from other carts or roll cabs that could hit and damage the side
- Great for hiding scratches or dings
- Hardware and instructions included
- Panels are made of acrylic

| 1000 Series | Black       | Green       | Orange      | Red         |
|-------------|-------------|-------------|-------------|-------------|
| Kit         | JKASP10KTBK | JKASP10KTGR | JKASP10KTOR | JKASP10KTRD |
| Left Side   | JKASP10LBK  | JKASP10LGR  | JKASP10LOR  | JKASP10LRD  |
| Right Side  | JKASP10RBK  | JKASP10RGR  | JKASP10ROR  | JKASP10RRD  |



JKASP10KTBK

| 7000 Series | Black       | Green       | Orange      | Red         |
|-------------|-------------|-------------|-------------|-------------|
| Kit         | JKASP70KTBK | JKASP70KTGR | JKASP70KTOR | JKASP70KTRD |
| Left Side   | JKASP70LBK  | JKASP70LGR  | JKASP70LOR  | JKASP70LRD  |
| Right Side  | JKASP70RBK  | JKASP70RGR  | JKASP70ROR  | JKASP70RRD  |



JKASP70KTGR



JKASP70KTRD

**EPIQ Series Protective Side Panels**

| EPIQ Series | Black      | Green      | Orange     | Red        |
|-------------|------------|------------|------------|------------|
| Kit         | JKASPEKTBK | JKASPEKTGR | JKASPEKTOR | JKASPEKTRD |
| Left Side   | JKASPEPLBK | JKASPEPLGR | JKASPEPLOR | JKASPEPLRD |
| Right Side  | JKASPEPRBK | JKASPEPRGR | JKASPEPROR | JKASPEPRRD |



JKASPEPROR



JKASPEPRRD

**Stationary Storage Accessories**

| Drawer Label Kit | Stock No. |
|------------------|-----------|
| Narrow           | K1H18L-5A |
| Standard         | K1H25L-5A |
| Standard Plus    | K1H31L-5A |
| Extra-Wide       | K1H40L-5A |
| Double-Wide      | K1H55L-5A |

**KSWSTOPKIT Top Bracket Kit**

- To mount a stationary storage work surface; creates a workstation



JKASPEPRGR

**Stationary Storage Base Skirts**

| Replacement Skirts | Gloss Black | Red        | Royal Blue | Arctic Silver |
|--------------------|-------------|------------|------------|---------------|
| Narrow             | 30SN610PB   | 30SN610PBN | 30SN610PCN | 30SN610ZBB    |
| Standard           | 30SS610PB   | 30SS610PBN | 30SS610PCN | 30SS610ZBB    |
| Standard Plus      | 30SP610PB   | 30SP610PBN | 30SP610PCN | 30SP610ZBB    |
| Extra-Wide         | 30SE610PB   | 30SE610PBN | 30SE610PCN | 30SE610ZBB    |
| Double-Wide        | 30SD610PB   | 30SD610PBN | 30SD610PCN | 30SD610ZBB    |

**Vinyl Top Mats**

| Application                           | Black/Green Stock No. | Black/Orange Stock No. | Black/Red Stock No. |
|---------------------------------------|-----------------------|------------------------|---------------------|
| 60" EPIQ Double/Triple Bank Roll Cabs | JKWSN60BVGS           | JKWSN60BVOS            | JKWSN60BVRS         |
| 68" EPIQ Double/Triple Bank Roll Cabs | JKWSN68BVGS           | JKWSN68BVOS            | JKWSN68BVRS         |
| 84" EPIQ Double/Triple Bank Roll Cabs | JKWSN84BVGS           | JKWSN84BVOS            | JKWSN84BVRS         |



- Do not open multiple drawers
- Images may be shown without actual warning labels
- Read safety precautions on pages W1 to W4

# HAND TOOL ORGANIZATION



KAMHLAP / KAMH2024A

KAMH2930 /  
KAMHEXT /  
KAMHKB

KAMHMP  
shown on  
KAMH2024

KAMHTBLT  
shown on  
KAMH2930

## Handle Mounting Kits and Holders

| Stock No. | Description                                |
|-----------|--|
| KAMH2024A | Handle Mounting Kit Classic/Heritage/Carts |
| KAMH2930  | Handle Mounting Kit KRL29" and EPIQ Series |
| KAMHEXT   | Vertical Extension Rod                     |
| KAMHKB    | Keyboard Holder                            |
| KAMHLAP   | Laptop Holder                              |
| KAMHMP    | Monitor Plate                              |
| KAMHTBLT  | Tablet Holder                              |
| KAMHWL    | Wire Holding Loops                         |

## PANEL ACCESSORIES: SIDE PANELS

### Add-On Slotted Side Panels

- Use storage surfaces to organize most-used tools
- Fits Slotted Wall accessories for roll cabs, carts and WorkCenters and inside lockers
- Add storage space on either side of the roll cab for organizing hand tools and power tools
- Add a charging shelf with a power strip for batteries, tablets, phones
- Add shelves and bins for consumables and for work-in-process



KA2637PBO



KA2637PES



KA2637PJJ

(tools and accessories not included)



KA2637SS

(tools and accessories not included)



KA1734PBO

| Applications   | Stock No.  | Color            |                 |
|--|--|------------------|-----------------|
| KRSC242/KRSC246/KRA2422/KRA2423/<br>KCP2422/KCP2423                            | KA2032PBO  | Red              |                 |
|  | KA2032PC   | Gloss Black      |                 |
|  | KA2032PJJ  | Extreme Green    |                 |
|  | KA2032PJK  | Electric Orange  |                 |
|  | KA2032PV   | Textured Black   |                 |
|  | KA2032SS   | Stainless Steel  |                 |
|  | KMP/KRL/KTL 1022, 1023, KERN, KETN,<br>KETP, KERP—Fits Masters 1,000 Series and<br>EPIQ Series | KA2637PBO        | Red             |
|  |  | KA2637PC         | Gloss Black     |
|  |  | KA2637PES        | Ultra Yellow    |
|  |  | KA2637PJH        | Candy Apple Red |
| KA2637PJJ  |  | Extreme Green    |                 |
| KA2637PJK  |  | Electric Orange  |                 |
| KA2637PKS  |  | Arctic Silver    |                 |
| KA2637PRJ  |  | Storm Gray       |                 |
| KA2637PU   |  | White            |                 |
| KA2637PV   |  | Texture Black    |                 |
| KA2637SS   | Stainless Steel  |                  |                 |
| KRSC46/KRSC430/KRSC326/KRSC343<br>(also holds End Cab)                         | KRSC404APV   | Black (Textured) |                 |
| KTL/KRL7022, 7023, KEMN361—Fits<br>Masters 7,000 Series and EPIQ Series Carts  | 361AEMW4KPBO   | Red              |                 |
|  | 361AEMW4KPC  | Gloss Black      |                 |
|  | 361AEMW4KPCM   | Royal Blue       |                 |
|  | 361AEMW4KPDG   | Midnight Blue    |                 |
|  | 361AEMW4KPES   | Ultra Yellow     |                 |
|  | 361AEMW4KPJH   | Candy Apple Red  |                 |
|  | 361AEMW4KPJJ   | Extreme Green    |                 |
|  | 361AEMW4KPJK   | Electric Orange  |                 |
|  | 361AEMW4KPKS   | Arctic Silver    |                 |
|  | 361AEMW4KPOT   | Flat Black       |                 |
| 361AEMW4KPU  | White  |                  |                 |
| 361AEMW4KPWL   | Flat Blue  |                  |                 |
| KRSC46, KRSC430, KRSC323, KRSC343,<br>KRSC326 (will not hold optional End Cab) | KA1734PBO  | Red              |                 |
|  | KA1734PC   | Gloss Black      |                 |
|  | KA1734PCM  | Royal Blue       |                 |
|  | KA1734PJJ  | Extreme Green    |                 |
|  | KA1734PWZ  | Storm Gray       |                 |
|  | KA1734PV   | Black (Textured) |                 |
| KCP1422/KCP1423  | KA2036PBO  | Red              |                 |
|  | KA2036PC   | Gloss Black      |                 |
|  | KA2036PCM  | Royal Blue       |                 |
|  | KA2036PJJ  | Extreme Green    |                 |
|  | KA2036PJK  | Electric Orange  |                 |
|  | KA2036PWZ  | Storm Gray       |                 |
|  | KA2036SS   | Stainless Steel  |                 |

## Workcenter Accessories

- Accessories are designed to fit all slotted systems found on workcenters and on accessory side panels for roll cabs and carts

| Stock No.   | Description   | Color                | Applications   |
|-------------|---|----------------------|--|
| 2637J5000   | 24" Seven Tool Power Tool Holder Kit for Slot Panel | Gloss Black          | Fits Masters and EPIQ, KEM units                                     |
| KAS12APWRPC | 12" Power Tool Rack (holds 3)                       | Gloss Black          | Fits all slotted walls   |
| KAS18PWRPC  | 18" Power Tool Rack (holds 5)                       | Gloss Black          | Fits all Slotted Walls 18" and Larger                                |
| KAHCK33     | 3" Curved Hook (3 pk)                               | Gloss Black          | Fits all slotted walls   |
| KAHK63      | 6" Extended Hook (3 pk)                             | Gloss Black          | Fits all slotted walls   |
| KAHLK33     | 3" Loop (3 pk)                                      | Gloss Black          | Fits all slotted walls   |
| KAHR12PV    | Hammer Rack   | Textured Black       | —  |
| KAMS18PV    | Shop Manual Stand                                   | Textured Black       | —  |
| KAPS4       | Power Strip (4 AC)                                  | Black                | —  |
| KAPS5       | Power Strip with (5) A/C and (2) USB Ports          | —                    | —  |
| KAPR24PVB   | Prybar Rack   | Black                | Bolt into handle holes on Classic, Masters and EPIQ                  |
| KAS12APV    | Flat Utility Shelf                                  | Textured Black       | Fits all slotted walls   |
| KAS12X18PV  | 18" Reversible Shelf                                | Textured Black       | Fits all slotted walls 18" and larger and holds KAPS5                |
| KASH12X18PV | 18" Reversible Power Shelf                          | Textured Black       | Fits KA2032, KA2637 slot panels and all slotted walls 18" and larger |
| KAS12X21PV  | 21" Reversible Shelf                                | Textured Black       | Fits all slotted walls   |
| KASH12X24PV | 24" Reversible Power Shelf                          | Textured Black       | Fits KA2637 series only  |
| KASR12APV   | Drop-In Screwdriver Rack                            | Textured Black       | Fits all Slotted Walls 18" and Larger                                |
| KASRS12APV  | Slide-in Screwdriver Rack                           | Textured Black       | Fits all slotted walls (for low clearance)                           |
| KAT12APV    | Spray Can Rack                                      | Textured Black       | Fits all slotted walls   |
| KAT18APV    | Spray Can Rack (18")                                | Textured Black       | Fits all Slotted Walls 18" and Larger                                |
| KATR12PV    | T-Handle Rack (12")                                 | Textured Black       | Fits all slotted walls   |
| KATVBRKT    | Monitor Mounting Bracket                            | Brushed Stainless    | Fits all slotted walls   |
| YA3086A     | Looped Tool Organizer                               | Black with Red Loops | 1/8" Screw-in holes on Slots-N-Dots™                                 |
| YA3089A     | Looped Tool Organizer                               | Black with Red Loops | 1/8" Screw-in holes on Slots-N-Dots™                                 |
| YA3123A     | Looped Tool Organizer                               | Black with Red Loops | 1/8" Screw-in holes on Slots-N-Dots™                                 |
| YA3182A     | Looped Tool Organizer                               | Black with Red Loops | 1/8" Screw-in holes on Slots-N-Dots™                                 |
| K1LCAPBLK   | Lock Cap  | Black                | —  |
| KAFAN       | LED Clock, Two-Speed Fan                            | Black                | Magnetic base for WorkCenter   |
| KAFANPBO    | LED Clock, Two-Speed Fan                            | Red                  | Magnetic base for WorkCenter   |
| KAFANPJJ    | LED Clock, Two-Speed Fan                            | Extreme Green        | Magnetic base for WorkCenter   |
| KAFANPJK    | LED Clock, Two-Speed Fan                            | Electric Orange      | Magnetic base for WorkCenter   |
| KAGLVHLDR   | Glove Dispensing Rack                               | Gloss Black          | Fits KA2032, KA2637, KA2036, KRSC404APV and 361AEMW4K slot panels    |



KAS12APWRPC



KAHCK33



KAHK63



KAHLK33



KAHR12PV



KAMS18PV



KAS12APV



KAS12X18PV



KASR12APV



KAS12APV



KAT18APV



KATR12PV



YA3086A



YA3089A



YA3123A



YA3182A



KAFAN



KAGLVHLDR



KATVBRKT



- Do not open multiple drawers
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## SHELVES/TRAYS/AND RACKS



KRJC23AAPV

### Creepers Hangers

| Stock No.  | Description     | Color |
|------------|-----------------|-------|
| KRJC23AAPV | Creepers Hanger | Black |



KRA412GPB0

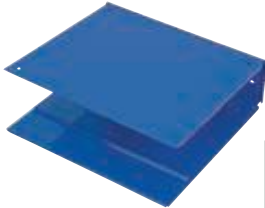


KRA412GPC

### Folding Shelf

- 18 x 18" work surface

| Stock No.  | Color          | Applications                       |
|------------|----------------|------------------------------------|
| KRA412GPB0 | Red            | Fits KRA and KRSC (except KRSC33A) |
| KRA412GPC  | Gloss Black    | Fits KRA and KRSC (except KRSC33A) |
| KRA412GPCM | Royal Blue     | Fits KRA and KRSC (except KRSC33A) |
| KRA412GPJJ | Extreme Green  | Fits KRA and KRSC (except KRSC33A) |
| KRA412GPV  | Textured Black | Fits KRA and KRSC (except KRSC33A) |



KRA412GPCM



KRA412GPJJ



KRA19



KRA20

### Hang-on Parts Trays

- Organize small parts or spray cans
- Hang on roll cab or tool chest with 1/4" or more lip
- Also for use in drawers as storage trays

#### KRA19 Hang-on Parts Tray

- Measures 15 x 3 x 2-1/4"

#### KRA19PV Hang-on Parts Tray

#### KRA20 Hang-on Parts Tray

- Measures 25" x 3" x 2-1/4". Measures 25 x 3 x 2-1/4"

#### KRA20PV Hang-on Parts Tray



1001XL36PV



30AE3036PV



30AE2036PV



30AE3836PV



761XL36APV



KA31X36

(tools and accessories not included)

### Sliding Trays

- Provide additional work or storage surface
- Optional parts tray for roll cabinets
- Accommodates wide variety of tools for convenient access
- Utilize empty space at the top of the tool box drawer

#### 1001XL36PV Sliding Tray

- Fits Masters and Classic Series
- Measures 14-1/8 x 6 x 1-1/8"

#### 30AE2036PV Sliding Parts Tray

- Use on KEXP725A, KEXN725A, KEXN603A, KERP763B, KERP843B, KERN842B, KERN843B, KERN602B, KERN682B EPIQ roll cabinets

- 20" wide

- Optional parts tray for EPIQ roll cabinets

- Accommodates wide variety of tools for convenient access
- Utilize empty space at the top of the tool box drawer

#### 30AE3036PV Sliding Parts Tray

- Use on KEXP725A, KEXN725A, KEXN603A, KERP763B, KERN843B and KERN602B EPIQ Series roll cabinets

- 30" wide

#### 30AE3836PV Sliding Parts Tray

- Use on KEXP725A, KERP843B and KERN682B EPIQ Series roll cabinets

- 38" wide

#### 761XL36APV Sliding Tray Assembly

#### KA31X36 Sliding Tray (Partitioned)

- Maximize your 31" drawer space
- Fits Masters and Classic series

## SHELVES, TRAYS AND RACKS



KAPR17APCM



KAPR24PVB



KR294AAPV



KR295

### Colors Available



|      |    |     |     |     |     |     |
|------|----|-----|-----|-----|-----|-----|
| * PC | PV | PJK | PJJ | PJH | PCM | PWZ |
| —    | PV | —   | —   | —   | —   | —   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Prybar Racks

- KAPR17A Series is designed to hold the new Snap-on® large-handled prybars
- KR295 Series is designed to hold screwdrivers and some prybars

| Stock No. | Description         | Tool Holding Capacity | Color          | Depth, inches (mm) | Height, inches (mm) | Net Weight, lb (kg) | Shipping Weight, lb (kg) | Width, inches (mm) |
|-----------|---------------------|-----------------------|----------------|--------------------|---------------------|---------------------|--------------------------|--------------------|
| KAPR17A*  | Prybar Rack         | 20                    | Red            | 4 (100)            | 8-1/2 (215)         | 12 (5)              | 13 (5.5)                 | 15-1/2 (394)       |
| KAPR24PVB | Prybar Rack         | 7                     | Textured Black | 3-3/4 (81)         | 19 (482)            | 17 (7)              | 18 (8)                   | 24 (600)           |
| KR294AAPV | Hang-on Prybar Rack | 4                     | Textured Black | 3 (76)             | 9-1/2 (241)         | 2-1/2 (1)           | —                        | 6 (154)            |
| KR295**   | End Cab             | 28                    | Red            | 4-23/32 (119.9)    | 10-3/16 (258.8)     | 12 (5)              | 17 (8)                   | 17-1/8 (435)       |

## BOLT COVER/WHEEL COVER SETS

### Custom Caster Bolt Covers

- Fits all current and most past model Snap-on® casters
- Caps fit all current Snap-on® roll cabs
- Also fits the caster horn bolt found on all EPIQ and Masters Series Roll Cabs
- Also fits Classic 6 x 2" caster bolt
- Machined aluminum with custom Snap-on® wrench "S" marking
- 6 pc sets (2) for each swivel caster, (1) for each rigid caster
- Includes set screw for positive attachment (includes Allen wrench for install)

| Stock No. | Description                           | Color                   |
|-----------|---------------------------------------|-------------------------|
| KACAP6BK  | 6 pc Powder-Coated Caster Bolt Covers | Black                   |
| KACAP6ZBK | 6 pc Powder-Coated Caster Bolt Covers | Electric Orange (Matte) |
| KACAP6ZBJ | 6 pc Powder-Coated Caster Bolt Covers | Extreme Green (Matte)   |
| KACAP6BU  | 6 pc Powder-Coated Caster Bolt Covers | Blue                    |
| KACAP6RD  | 6 pc Powder-Coated Caster Bolt Covers | Red                     |



## VALVE CAPS

### Valve Caps

- 4 pc Set of Logo Valve Caps
- Powder coated metal valve cap to match our most popular Snap-on® toolbox colors
- Snap-on® "S" logo on each cap
- Great way to accessorize TUV, vehicle, bicycle, riding lawn mower and ATV tires

| Stock No. | Color           |
|-----------|-----------------|
| KAVC4PBO  | Red             |
| KAVC4PC   | Gloss Black     |
| KAVC4PJJ  | Extreme Green   |
| KAVC4PJK  | Electric Orange |



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# LIGHTING



ECTSA289

## LED Light Bars

- LED Light Bars for WorkCenters, Lockers and Bulk Overhead Cabinets
- Automatic on/off: durable and strong contacts provide positive engagement
- Magnetic installation of the light bar and the power switch provides easy installation and maneuverability
- It will create a lighting experience that outshines anything else in the shop
- Top-quality materials and construction
- Highest level of functionality (automatic on/off)
- Lowest energy use
- Best heat dissipation
- High-output LED system uses application-specific LED technology with a three year unlimited warranty

| Stock No.   | Description  | Lumens | Power      | Power, Volts     |
|-------------|--|--------|------------|------------------|
| ECTSA109    | 1-1/2' Tool Storage Light Bar with Magnetic Switch | 1,297  | 14.8       | 100-240/60 (1.5) |
| ECTSA109-RC | 1-1/2' Tool Storage Light Bar with Remote Control  | 1,297  | 14.8       | 100-240/60 (1.5) |
| ECTSA289    | 4' Tool Storage Light Bar with Magnetic Switch     | 2,850  | 9 – Corded | 110              |
| ECTSA289-RC | 4' Tool Storage Light Bar with Remote Control      | 2,850  | 9 – Corded | 110              |
| ECTSA319    | 5' Tool Storage Light Bar with Magnetic Switch     | 3,100  | 9 – Corded | 110              |
| ECTSA319-RC | 5' Tool Storage Light Bar with Remote Control      | 3,100  | 9 – Corded | 110              |

### ECTSA-3 Locker Light Magnetic Control Box

### ECTSA-4 Plastic Cable Management Ties (5 pk)



KALEDRD

## LED Light Kits

- 13" LED strips are lightweight and can be attached to any surface using two-way soft tape
- LED strips can be connected in a straight line
- Connecting the LED strips with the included short connector cord allows the 13" LED strips to be placed around corners or at different levels from each other
- Each kit has a white six-way terminal to allow up to five additional LED add on kits
- Kit includes (3) 13" LED strips, (2) short connector cords, (1) six-way terminal and two-way soft tape
- Add-on kits contain (3) 13" LED strips, (2) short connector cords, (1) 6' power cord and two-way soft tape

| Stock No.   | Description              | Color |
|-------------|--------------------------|-------|
| KALEDBLUE   | (3) 13" LED Strips (Kit) | Blue  |
| KALEDGREEN  | (3) 13" LED Strips (Kit) | Green |
| KALEDRD     | (3) 13" LED Strips (Kit) | Red   |
| KALEDDWHITE | (3) 13" LED Strips (Kit) | White |



ECTSBO22



KEWLED24

## LED WorkCenter Lights

### ECTSBO22 250 Lumen Tool Storage Drawer Light

- Two magnets on the back of the light and one on the side
- Sensor transmits a signal to turn the light on when the drawer opens, off when the drawer closes
- Can be used inside or outside the drawer
- Button on the sensor can turn the light on and off manually

### KEWLED24 WorkCenter Light

- Flexible shaft can be bent up to 160° to provide lighting where needed
- Magnetic flexible posts make it easy to install on any flat steel surface or on the back wall
- 144 LEDs located throughout entire length of light for maximum brightness
- Diffuser included for uniform light



KAWRSLOGO18

## Lighted Signs

### KAWRSLOGO18 Snap-on®

#### “S” Sign (18”)

- Snap-on® Wrench “S” sign made of PVC and aluminum
- 18” W x 16” H





KALED28X7B



KALED28X7G



KALED8X11B



KALED28X7O



KALED28X7P



KALED8X11G



KALED28X7R



KALED28X7W



KALED8X11R



KALED24X6MB



KALED24X6MC



KALED24X6MR

**LED Light Panels**

- Can be mounted to a steel surface via included rare earth magnets
- Use AC or DC power; come with 110 V AC plug and battery pack
- Acrylic panel is dipped and coated for abrasion resistance

| Stock No.    | Description   | Panel Color | LED Light Color | Size, inches |
|--------------|---|-------------|-----------------|--------------|
| KALED28X7B   | LED Snap-on® Logo Display Panel Light                   | —           | Blue Light      | 28 x 7       |
| KALED28X7G   | LED Snap-on® Logo Display Panel Light                   | —           | Green Light     | 28 x 7       |
| KALED28X7O   | LED Snap-on® Logo Display Panel Light                   | —           | Orange Light    | 28 x 7       |
| KALED28X7P   | LED Snap-on® Logo Display Panel Light                   | —           | Pink Light      | 28 x 7       |
| KALED28X7R   | Full Logo Panel Light                                   | —           | Red Light       | 28 x 7       |
| KALED28X7W   | LED Snap-on® Logo Display Panel Light                   | —           | White Light     | 28 x 7       |
| KALED8X11B   | LED "S" Logo Display Panel Light                        | —           | Blue Light      | 11 x 8       |
| KALED8X11G   | LED "S" Logo Display Panel Light                        | —           | Green Light     | 11 x 8       |
| KALED8X11R   | Full Logo Panel Light                                   | —           | Red Light       | 11 x 8       |
| KALEDB24B    | LED Snap-on® Logo Display Panel Light                   | Black       | Blue            | 24 x 7       |
| KALEDB24G    | LED Snap-on® Logo Display Panel Light                   | Black       | Green           | 24 x 7       |
| KALEDB24O    | LED Snap-on® Logo Display Panel Light                   | Black       | Orange          | 24 x 7       |
| KALEDB24MCB  | LED Snap-on® Logo Display Panel Light                   | Black       | Multi-color     | 24 x 7       |
| KALED24X6MB  | LED Snap-on® Silhouette Logo Panel Light                | Black       | Blue            | 24 x 6       |
| KALED24X6MC  | LED Snap-on® Silhouette Logo Panel Light                | Black       | Multi-color     | 24 x 6       |
| KALED24X6MG  | LED Snap-on® Silhouette Logo Panel Light                | Black       | Green           | 24 x 6       |
| KALED24X6MO  | LED Snap-on® Silhouette Logo Panel Light                | Black       | Orange          | 24 x 6       |
| KALED24X6MR  | LED Snap-on® Silhouette Logo Panel Light                | Black       | Red             | 24 x 6       |
| KALED24X6MW  | LED Snap-on® Silhouette Logo Panel Light                | Black       | White           | 24 x 6       |
| KALED30X12MC | Multi-Color LED Panel Snap-on® Vintage Logo Panel Light | Clear       | Multi-color     | 30 x 12      |



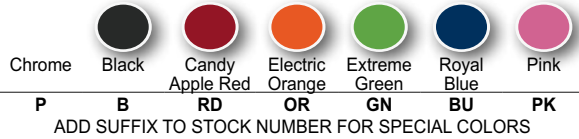
- Do not open multiple drawers
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## CUSTOMIZATION



KA2422HDLP

### Colors Available



### Roll Cab Handlebars

- Fit all KRA and KCP Roll Cabs in our Classic and Heritage Series, plus KRSC Series Carts
- Powder-coated options match the most popular Snap-on® toolbox colors
- Heavy-duty aluminum construction with knurled grip on handle
- Laser engraved Snap-on® logo in handle base
- Laser engraved Snap-on® "S" on both handle posts

| Stock No.  | Description     | Color           |
|------------|-----------------|-----------------|
| KA2422HDLP | Roll Cab Handle | Polished Chrome |

## DRAWER ORGANIZATION



KAERNX6RD

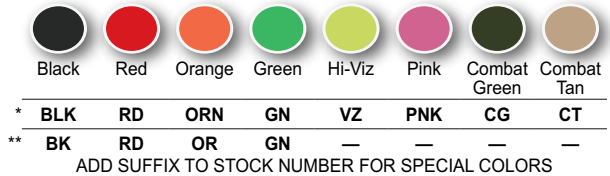


KAERNADD6RD

### Drawer Organizers

| Stock No.      | Description                          |
|----------------|--------------------------------------|
| KAERNX6RD *    | 6 pc Drawer Organizer                |
| KAERNADD6RD ** | 6 pc Socket/Wrench/Bit Organizer Set |

### Colors Available



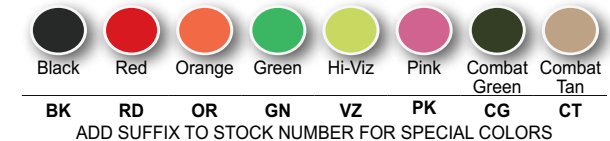
KAD16X10RD

### Drawer Organizer Trays

- Fit 2" deep drawers (11 x 16 x 1-1/4")
- High-strength plastic

#### KA16X10RD 10 Compartment Drawer Organizer Tray (16 x 10")

### Colors Available



SPP804-2

### Parts Tray Drawer Inserts

- Lightweight but tough reinforced polymer construction
- Each compartment has an area for labeling if desired
- Use in tool drawers or cart to organize fasteners, clips, etc.
- Fits into a 2" narrow drawer, such as on KRL722, KRA2411 and KRA2418 models

#### SPP804-1 14 Compartment Parts Tray

#### SPP804-2 35 Compartment Parts Tray

## Extension/Ratchet Organizers

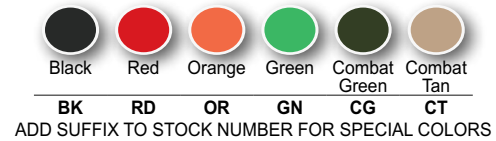
- Exclusive press tab feature captures 3/8" drive extensions for drawer organization and secure transport
- Store up to (10) 3/8" drive standard, wobble and/or impact extensions
- Will also store hard handle ratchets (standard and flex head) up to 18" long
- Press tabs are designed both to secure items in place (even upside down) and to facilitate ease of removal
- Low-profile to fit shallow drawers
- Available in six colors to match Snap-on® tool storage units

| Stock No. | Description                                       |
|-----------|---|
| KAEXT38RD | 3/8" Drive Extension and Ratchet Holder/Organizer |



KAEXT38RD

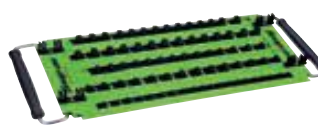
### Colors Available



BPSSTRYLAS



BPTRYLAS



KASKT5GN



LASTRAY2RED



LAS12MR



LAS12SR



LAS14MR



LAS14SR



LAS38MR



LAS38SR

## Lock-A-Socket™ Trays and Rails

Lock-A-Socket™ trays feature Snap-on® colors, branding and grips

- Hold over six dozen sockets with a twist lock to keep them in place—accommodate 1/2, 3/8, and 1/4" drive sockets
- Comes in (5) Snap-on® powder-coated colors: Red, Black, Extreme Green, Orange, Pink
- KA Series only comes with Snap-on® ratchet-style swivel grips for easy carrying
- KA Series only comes with (8) clips for ratchets and extensions, are made of a flexible polymer and won't scratch the chrome
- Colors match popular Snap-on® toolbox paint colors and look great in drawers
- KA Series only comes with Snap-on® Logo on each end

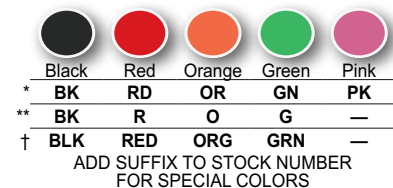
| Stock No.     | Description  | Color           | Weight, lb | Area, inch |
|---------------|--|-----------------|------------|------------|
| BPSSTRYLAS    | 20" Combination Drive Size Lock-A-Socket™ Tray (Blue-Point®) | Stainless Steel | —          | 8-3/4 x 20 |
| BPTRYLAS      | 20" Combination Drive Size Lock-A-Socket™ Tray (Blue-Point®) | Red             | —          | 8-3/4 x 20 |
| KASKT5RD *    | 20" Combination Drive Size Lock-A-Socket™ Tray               | Red             | 2.75       | 8-3/4 x 20 |
| LAS14MR **    | 1/4" Drive Metric Lock-A-Socket™                             | Red             | 1          | 1.6 x 15   |
| LAS14SR **    | 1/4" Drive SAE Lock-A-Socket™                                | Red             | 1          | 1.6 x 15   |
| LAS38MR **    | 3/8" Drive Metric Lock-A-Socket™                             | Red             | 1.55       | 1.6 x 19   |
| LAS38SR **    | 3/8" Drive SAE Lock-A-Socket™                                | Red             | 1.55       | 1.6 x 19   |
| LAS12MR **    | 1/2" Drive Metric Lock-A-Socket™                             | Red             | 1.9        | 1.6 x 15   |
| LAS12SR **    | 1/2" Drive SAE Lock-A-Socket™                                | Red             | 1.9        | 1.6 x 15   |
| LASTRAY2RED † | 5 Row Lock-A-Socket™ Extreme Tray                            | Red             | 8          | 8.1 x 22.5 |

## MTSLAS25LP25 1/4" Drive Lock-A-Socket™ Posts MTSLAS38LP25 3/8" Drive Lock-A-Socket™ Posts MTSLAS50LP25 1/2" Drive Lock-A-Socket™ Posts



MTSLAS38LP25

### Colors Available



• Images may be shown without actual warning labels  
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**HAND TOOL ORGANIZATION**



**A263B**

**Multi-Row Socket Trays**

- Steel panel units have socket rails attached and a carrying handle

**A263B Socket Holder**

- Fits in top, below pallet
- For square drive tools to 4" deep
- Holds four 10-3/8" rows and two 3-1/2" rows of sockets
- Five-row organizer measures 10-1/8 x 8-1/4"
- (US Patent #5,284,245)



**A288B**

**A288B Socket Holder**

- 10-row organizer measures 14-1/2 x 17-3/16"
- Two handles
- (US Patent #5,284,245)



**KTA500**

**KTA500 Multi-Row Socket Tray**

- Holds up to 80 sockets in 1/4", 3/8" and 1/2" drive sizes
- Features one rail with (16) 1/4" drive clips, two rails with (16) 3/8" drive clips each and two rails with (16) 1/2" drive clips each
- Aligns sockets for fast, easy selection
- Use on roll carts and will fit into most roll cab/tool chest drawers
- Overall length of 20"
- 17-1/2" L x 7-9/16" W x 2-1/2" D
- Made of heavy-gauge steel



**KTA600**

**KTA600 Multi-Row Socket Tray (Blue-Point®)**

- Holds up to 80 sockets in 1/4, 3/8 and 1/2" drive sizes
- Five rails with (16) 1/4" drive clips, (32) 3/8" drive clips and (32) 1/2" drive clips
- Fits into most roll cab/tool chest drawers
- Sturdy handles on either side for easy carrying



**BPSKTRLSTRY**

**BPSKTRLSTRY Four Rail Socket Tray (Blue-Point®)**

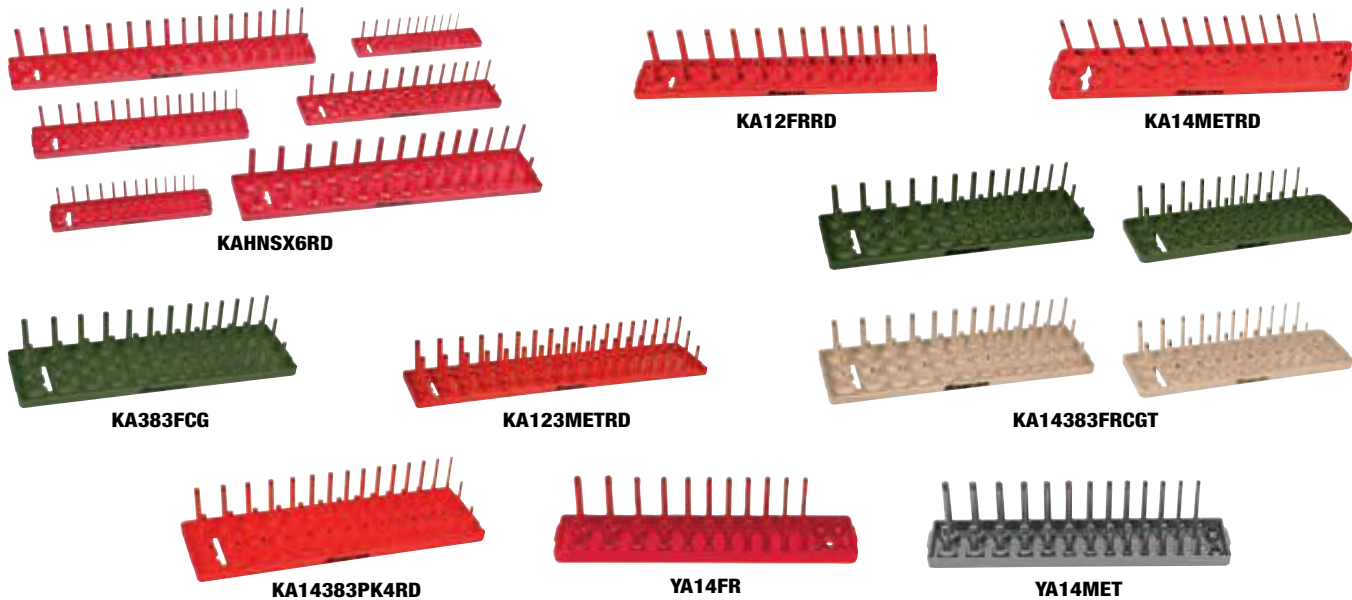
- Holds up to 80 sockets in 1/4, 3/8 and 1/2" drive sizes
- Four rails with (20) 1/4" drive clips, (30) 3/8" drive clips and (30) 1/2" drive clips
- Low-profile design to fit most drawer sizes
- Sturdy handle for either hanging or carrying the tray



**BPSKTRLSTRYP**

**BPSKTRLSTRYP Four Rail Socket Tray (Blue-Point®)**

- Holds up to 80 sockets in 1/4, 3/8, and 1/2" drive sizes
- Four rails with (20) 1/4" drive clips, (30) 3/8" drive clips, and (30) 1/2" drive clips
- Low-profile design to fit most drawer sizes
- Sturdy handle for either hanging or carrying the tray



## Socket Holders with Posts

- All sockets are easily visible
- Each post is marked for correct socket size
- Sockets are easily removed with one hand
- Use for hand, power and impact sockets
- High-impact plastic resists oil and grease
- KA143, KA383 and KA123 three-row holders have a middle row for semi-deep sockets

| Stock No.       | Description  | Color                   |
|-----------------|--|-------------------------|
| KAHNSX6RD *     | 6 pc 2-Row SAE/Metric Post Socket Tray Set (All Drive Sizes)     | Snap-on® Red            |
| KA12FRRD *      | 1/2" SAE Post Socket Tray  | Snap-on® Red            |
| KA12METRD *     | 1/2" Metric Post Socket Tray                                     | Snap-on® Red            |
| KA14FRRD *      | 1/4" SAE Post Socket Tray  | Snap-on® Red            |
| KA14METRD *     | 1/4" Metric Post Socket Tray                                     | Snap-on® Red            |
| KA38FRRD *      | 3/8" SAE Post Socket Tray  | Snap-on® Red            |
| KA38METRD *     | 3/8" Metric Post Socket Tray                                     | Snap-on® Red            |
| KA123FRRD **    | 1/2" 3-Row Post-Style Socket Tray                                | Snap-on® Red            |
| KA123METRD **   | 1/2" 3-Row Post-Style Socket Tray                                | Snap-on® Red            |
| KA143FCG ††     | 1/4" SAE Post 3-Row Socket Tray                                  | Combat Green            |
| KA143FRRD †     | 1/4" SAE Post 3-Row Socket Tray                                  | Snap-on® Red            |
| KA143METRD †    | 1/4" Metric Post 3-Row Socket Tray                               | Snap-on® Red            |
| KA383FCG ††     | 3/8" SAE Post 3-Row Socket Tray                                  | Combat Green            |
| KA383FRRD †     | 3/8" SAE Post 3-Row Socket Tray                                  | Snap-on® Red            |
| KA383METRD †    | 3/8" Metric Post 3-Row Socket Tray                               | Snap-on® Red            |
| KA14383FRCGT    | 1/4 and 3/8" Drive SAE Post 3-Row Socket Tray 4-Pack             | Combat Green/Combat Tan |
| KA14383MTCGT    | 1/4 and 3/8" Drive Metric Post 3-Row Socket Tray 4-Pack          | Combat Green/Combat Tan |
| KA14383PK4RD*** | SAE and Metric Post 3-Row Socket Tray Pack (1/4" and 3/8" Drive) | Snap-on® Red            |
| YA12FR          | 1/2" SAE Socket Holder with Posts                                | Red                     |
| YA14FR          | 1/4" SAE Socket Holder with Posts                                | Red                     |
| YA38FR          | 3/8" SAE Socket Holder with Posts                                | Red                     |
| YA12MET         | 1/2" Metric Socket Holder with Posts                             | Gray                    |
| YA14MET         | 1/4" Metric Socket Holder with Posts                             | Gray                    |
| YA38MET         | 3/8" Metric Socket Holder with Posts                             | Gray                    |

### Colors Available

|     | Black | Red | Electric Orange | Extreme Green | Hi-Viz | Pink | Combat Green | Combat Tan |
|-----|-------|-----|-----------------|---------------|--------|------|--------------|------------|
| *   | BK    | RD  | OR              | GN            | —      | PK   | —            | —          |
| **  | BK    | RD  | OR              | GN            | VZ     | —    | —            | —          |
| *** | BK    | RD  | OR              | GN            | —      | —    | —            | —          |
| †   | BK    | RD  | OR              | GN            | VZ     | —    | CG           | CT         |
| ††  | —     | —   | —               | —             | —      | —    | CG           | CT         |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Images may be shown without actual warning labels  
 • Read safety precautions on pages W1 to W4

# HAND TOOL ORGANIZATION



YA38HTD

## Socket Driver Tray

### YA38HTD Hex and TORX® Socket Driver Tray

- Organizes commonly used chrome 3/8" drive hex and TORX® socket drivers
- Sizes are clearly indicated on the holder
- Stores SAE hex drivers in 1/8–3/8" range (1/8, 9/6, 5/3, 3/1, 7/3, 1/4, 5/16 and 3/8"), metric hex drivers in 4–10 mm range (4, 5, 6, 7, 8, 9 and 10 mm) and TORX® drivers from T27–T60 sizes (T27, T30, T40, T45, T50, T55 and T60)
- Three open pockets for additional sockets
- Overall dimensions: 9-1/4 x 3-5/16 x 1/16"



LSR1213



LSR1406



LSR1412



LSR3812A

## Socket Rails (with Quick-Release Locking Clips) (Blue-Point®)

- Push-button, spring-loaded clips provide quick, easy release of socket even with greasy hands
- Extruded aluminum socket rail for light weight and durability
- Detent ball at bottom of clip permits clip to be easily positioned on rail
- Rail also features laser engraved Snap-on® logo

| Stock No. | Square Drive, inches | Clips | Rail Color | Overall Length, inches (mm) |
|-----------|----------------------|-------|------------|-----------------------------|
| LSR1213   | 1/2                  | 13    | Black      | 14 (355.6)                  |
| LSR1406   | 1/4                  | 6     | Black      | 7-3/8 (187.3)               |
| LSR1412   | 1/4                  | 12    | Black      | 10 (254)                    |
| LSR3812A  | 3/8                  | 12    | Black      | 12 (304.8)                  |



A267A



A271A

## Socket Rails and Clips

| Stock No. | Rail Length, inches (mm) | Clips              |
|-----------|--------------------------|--------------------|
| A265A     | 7-3/8 (187.3)            | 1/4" Drive         |
| A267A     | 13-3/8 (339.7)           | 3/8" Drive         |
| A269A     | 10-3/8 (263.5)           | 3/8" Drive         |
| A270A     | 16-3/4 (425)             | 1/2" Drive         |
| A271A     | —                        | 1/4" Drive (25 pk) |
| A272A     | —                        | 3/8" Drive (25 pk) |
| A273A     | —                        | 1/2" Drive (25 pk) |
| A274C     | —                        | 3/4" Drive (25 pk) |

### A265A Socket Rail and Socket Clips

- (12) 1/4" drive socket clips on a 7-3/8" rail

### A267A Socket Rail and Socket Clips

- (14) 3/8" drive socket clips on a 13-3/8" rail

### A269A Socket Rail and Socket Clips

- (12) 3/8" drive socket clips on a 10-3/8" rail

### A270A Socket Rail and Socket Clips

- (15) 1/2" drive socket clips on a 16-3/4" rail

### A271A Socket Clip

- 1/4" drive (25 pack)

### A272A Socket Clip

- 3/8" drive (25 pk)

### A273A Socket Clip

- 1/2" drive (25 pack)

### A274C Socket Clip

- 3/4" drive (25 pack)

## Twist Lock Socket Rail Tray

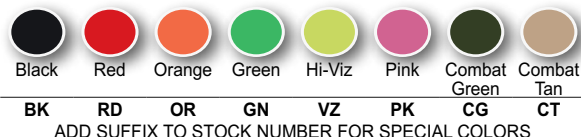
- Comes with 1/2, 3/8 and 1/4" drive rails
- Three individual 18" socket rails mounted together in one tray (push button removal)
- Easy 1/8 turn to lock and unlock the socket on drive square
- Sockets are secure, even upside down, will hang vertically if required
- Overall dimensions: 19-3/4 x 5-1/4"
- Snap-on® "S" on each of the three rails
- Made in USA

| Stock No.  | Description                                      |
|------------|--|
| KA123814RD | Twist Lock Socket Rail Tray (1/2, 3/8, and 1/4") |



KA123814RD

### Colors Available



KMAGBIT37R

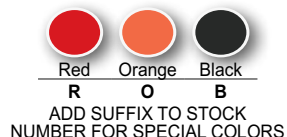
## Magnetic Hex Bit Holders/Rubber Base (Blue-Point®)

- Magnetic base affixes to any ferrous metal without scratching surface
- Bits will stay in holder even in upside-down applications
- Non-transferable magnetic material will not magnetize tools, or damage onboard automotive computers or other related circuitry
- Resists most shop chemicals
- Rubber base won't mar finishes
- Holds up to 37 bits
- Bits not included

### KMAGBIT37R Magnetic Hex Bit Holder (Blue-Point®)

- Red
- Bits are not included

### Colors Available



YA438B

## Moveable Peg Socket Rails (Blue-Point®)

- 18" rails feature adjustable pegs to organize sockets
- Pegs can be stacked for extra storage
- Adhesive-backed rail

### YA425B Socket Rail (Blue-Point®)

- 1/4" square drive (20 pegs)

### YA438B Socket Rail (Blue-Point®)

- 3/8" square drive (18 pegs)

### YA450B Socket Rail (Blue-Point®)

- 1/2" square drive (14 pegs)

### PEN7410 1/4" Square Pegs

### PEN7411 3/8" Square Pegs

### PEN7412 1/2" Square Pegs



KMAG14SD26R

## Magnetic Socket Holders (Blue-Point®)

- Magnetic base affixes to any ferrous metal without scratching surface
- Sockets will stay in holder even in upside down applications
- Nontransferable magnetic material will not magnetize tools or damage onboard automotive computers or other related circuitry
- Resists most shop chemicals
- Rubber base won't mar finishes

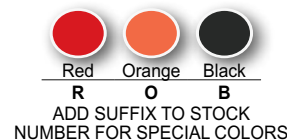
### KMAG38D12R Magnetic Socket Holder (Blue-Point®)

### KMAG38S12R Magnetic Socket Holder (Blue-Point®)

### KMAG38SD24R Magnetic Socket Holder (Blue-Point®)

### KMAG14SD26R Magnetic Socket Holder (Blue-Point®)

### Colors Available



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

## HAND TOOL ORGANIZATION



BPMVSR12A



BPMVSR14A



BPMVSR38A

### Magnetic Vertical Socket Rails

- View socket sizes quickly and easily with these new magnetic vertical socket rails
- Magnet backing (with protective foam covering) allows sockets to be attached to any metal surface
- Allow sockets to be placed on rack so size is visible
- Posts replaceable if lost or broken
- Can be laid down flat in drawer if necessary

**BPMVSR12A Magnetic Vertical Socket Rail**

**BPMVSR14A Magnetic Vertical Socket Rail**

**BPMVSR38A Magnetic Vertical Socket Rail**



MR1426



MR3828BL

### Magnetic Socket Trays

- Hold metric or fractional sockets in these molded ABS plastic trays
- Handle for easy movement to job sites

**MR1426 Magnetic Socket Tray**

**MR1426BL Magnetic Socket Tray**

**MR3828 Magnetic Socket Tray**

**MR3828BL Magnetic Socket Tray**



A277

### Crowfoot Wrench Holder

**A277 3/8" Drive 8-3/4" Crowfoot Wrench Holder**

- Organizes and stores crowfoot wrenches
- 2 pc design snaps apart for access to desired size
- 8-3/4" long



KRA15A



KRA22A

### Wrench Organizers

- Includes a pair of 24" long plastic organizers
- Cut to desired length and attach to any drawer with foam backing

**KRA15A Wrench Organizer**

**KRA22A Wrench Organizer**



BPM14MWH



BPS14MWH



MAGRAK10R



WRM10

### Magnetic Wrench Organizers

**BPM14MWH Magnetic Metric Wrench Holder (Blue-Point®)**

- Holds sizes 8–21 mm wrenches
- Strong magnets secure wrenches in place during movement
- Entire unit is magnetized to hold rack to drawer
- Can be used in as small as a 2" deep drawer
- Black

**BPS14MWH Magnetic SAE Wrench Holder (Blue-Point®)**

- Holds sizes 1/4–1" wrenches
- Strong magnets secure wrenches in place during movement
- Entire unit is magnetized to hold rack to drawer
- Can be used in as small as a 2" deep drawer
- Blue

**MAGRAK10 Magnetic Wrench Organizer (Blue-Point®)**

- (10) angular slots provide storage for most wrenches
- A ridge at the base prevents wrenches from contacting tool storage surfaces
- Mounts magnetically for instant wrench access
- Black

**MAGRAK10R Magnetic Wrench Organizer (Blue-Point®)**

- Red

**WRM10 Adjustable Wrench Organizer (Blue-Point®)**

- Holds (10) wrenches
- Adjusts to hold a variety of wrench sizes
- Magnets secure individual wrenches to rack
- Individual magnets hold each wrench securely at its center, allowing easy one-hand removal
- Magnetic holders slide on aluminum rail to adjust wrench spacing
- Base magnets secure the wrench rack to tool storage unit or other ferrous metal surfaces
- Base is made of non-scratch, heavy-duty anodized aluminum
- Red

**WRM15 Adjustable Wrench Organizer (Blue-Point®)**

- Holds (15) wrenches
- Adjusts to hold a variety of wrench sizes
- Magnets secure individual wrenches to rack
- Individual magnets hold each wrench securely at its center, allowing easy one-hand removal
- Magnetic holders slide on aluminum rail to adjust wrench spacing
- Base magnets secure the wrench rack to tool storage unit or other ferrous metal surfaces
- Base is made of non-scratch, heavy-duty anodized aluminum
- Red





**WRRAK5RDXL**



**WRRAK12RD**



**WRRAKKCNT**



**WRRAKXLCLP**

## WRRAK Wrench Rack

- Strong N37 magnets hold wrenches securely in place
- Magnetize through the drawer liner to hold your wrenches securely while opening and shutting drawer
- Low profile to fit in the 2" wrench drawer
- Multiple wrench racks can be connected together
- Sliding holders move, giving more space for larger wrenches
- Perfect for flex head and stubby wrenches
- Non-marring magnetic bottom prevents scratching and firmly attaches to metal surfaces horizontally

- WRRAK5BK\* 5" Magnetic Wrench Rack**
- WRRAK5BKXL\* 5" XL Magnetic Wrench Rack**
- WRRAK12BK\* 12" Magnetic Wrench Rack**
- WRRAKCLP1 Magnetic Wrench Rack Clip**

- WRRAKKCNT Magnetic Wrench Rack Connector**
- WRRAKXLCLP Magnetic Wrench Rack XL Clip**

### Colors Available



Black Red  
\* BK RD  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Soft Grip Wrench Racks

- Specifically designed to hold 10–15 Snap-on® wrenches
- Wrench size is clearly visible on rack
- Fits 2"-deep KRL drawers and most 2"-deep KRA drawers
- Retaining tabs for convenient vertical mounting or carrying

- KA381SG15RD 15 Wrench Rack**
- KA384SSG10RD 10 Midget Wrench Rack**
- KA389SG15RD Reverse 15 Wrench Rack**

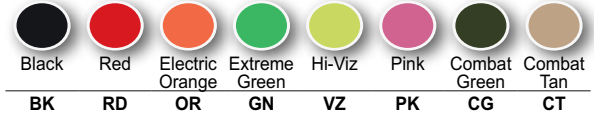


**KA389SG15RD**



**KA384SSG10RD**

### Colors Available



Black Red Electric Orange Extreme Green Hi-Viz Pink Combat Green Combat Tan  
BK RD OR GN VZ PK CG CT  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Soft Grip Wrench Racks

- Design holds wrench securely yet provides quick and easy release
- Store and organize wrenches
- Fit all 2"-deep drawers in Snap-on® tool storage units
- Flexible plastic material will not corrode or mar wrench finish
- Available in standard and reverse styles for convenient side-by-side mounting in tool drawers (US Patent 5,638,964 applies)

- YA381SG12 Soft Grip Wrench Organizer**
- YA381SG15 Soft Grip Wrench Organizer**
- YA381SG8 Soft Grip Wrench Organizer**
- YA389SG12 Reverse Soft Grip Wrench Organizer**
- YA389SG15 Reverse Soft Grip Wrench Organizer**
- YA389SG8 Reverse Soft Grip Wrench Organizer**



**YA381SG12**



**YA389SG15**



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

## HAND TOOL ORGANIZATION



YA384SSG10R



YA384SSG7R

### Soft Grip Stubby Wrench Racks

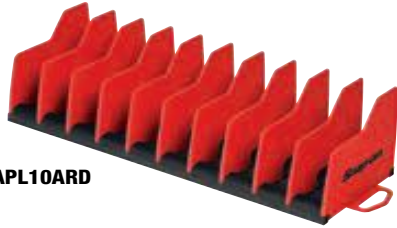
- Store and organize wrenches
- Fits all 2"-deep drawers in Snap-on® tool storage units
- Mounting holes align with the Slots-N-Dots™ system on Snap-on® WorkCenter riser units
- Molded handle allows easy transport of loaded rack
- Red and black color schemes allow user to easily differentiate fractional from metric sizes
- Racks may be trimmed for use with smaller wrench sets
- Flexible plastic material will not corrode or mar wrench finish

**YA384SSG10B Soft Grip Stubby Wrench Rack (Blue-Point®) (Black)**

**YA384SSG10R Soft Grip Stubby Wrench Rack (Blue-Point®)**

**YA384SSG7B Stubby Wrench Rack (Blue-Point®) (Black)**

**YA384SSG7R Stubby Wrench Rack (Blue-Point®)**



KAPL10ARD

#### Colors Available



|    |      |       |    |       |       |    |    |    |    |
|----|------|-------|----|-------|-------|----|----|----|----|
| *  | —    | ARD   | OR | —     | AVZ   | PK | —  | CG | CT |
| ** | ABK3 | ARDX3 | —  | AGNX3 | AVZX3 | —  | X3 | —  | —  |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Pliers Organizers

- Organize a wide range of pliers; also handles large wrenches
- Non-slip molded rubber base is contoured to hold tool in place
- Colors only available through Snap-on® with Snap-on® logo on both sides of each tray
- 10A suffix fits 3" wide drawers

| Stock No.    | Description                 | Width, inches (mm) | Height, inches (mm) |
|--------------|-----------------------------|--------------------|---------------------|
| KAPL10ARD†   | 10" Pliers Organizer        | 10 (254)           | 3-3/8 (85.7)        |
| KAPL10ARDX3† | 10" Pliers Organizer (3 pk) | 10 (254)           | 3-3/8 (85.7)        |

† Fits 3" extra-wide drawer



YA381A



YA381ABL



YA389A



YA381FRA



YA389ABL

### Wrench Organizers (Blue-Point®)

- The wrench holding tabs on the YA389 series are the reverse of the YA381 series so two or more sets can be stored side by side with all wrenches facing forward
- 6-1/4 x 2-1/2 x 9-1/2" long

**YA381A Wrench Organizer (Blue-Point®)**

- Holds up to 12 wrenches

**YA381ABL Wrench Organizer (Blue-Point®)**

- Holds up to 12 wrenches

**YA381MIDG Midget Wrench Organizer (Blue-Point®)**

- Holds up to 12 wrenches

**YA389A Reverse Tooth Wrench Organizer (Blue-Point®)**

- Holds up to 12 wrenches

**YA389ABL Reverse Tooth Wrench Organizer (Blue-Point®)**

- Black, holds up to 12 wrenches

**YA381FRA SAE Wrench Rack (Blue-Point®)**

**YA381MET Metric Wrench Rack (Blue-Point®)**



YA207

### Magnetic Nut Holder

**YA207 Nut Holder**

- Flexible stainless steel body with pivoting magnetic head clips onto open-end and box end wrenches
- Holds nut on sizes 3/8–3/4" (10–19 mm)



## Magnetic Bar Tool Holder

### MAGWRENCH Magnetic Bar Tool Holder (Blue-Point®)

- Industrial-strength magnets keep it secured to a metal surface
- Holds tools for quick and easy access
- Chrome-plated steel bar with chrome-plated nylon ends
- Overall size is 20" (with approximately 12" of magnetic holding space)

### KAMR123 Magnetic Bar Tool Holder (Blue-Point®)

- Magnet holds tools for easy access
- Can magnetically mount to metal surface or can be screw mounted
- Measures 11-3/4" L x 2-1/4" W x 7/8" H
- Housing is black finish with chrome-finish magnet plate

### SMR10 10-1/4" Long Magnetic Rack (Blue-Point®)

- Strong rare earth magnets on front of rack holds 1/4, 3/8 and 1/2" drive sockets
- Magnetic force on back of the rack mounts to tool drawer in seconds
- Keeps all sockets neat, organized and ready for use

### SMR13 13-1/4" Long Magnetic Rack (Blue-Point®)

- Strong rare earth magnets on front of rack holds 1/4, 3/8 and 1/2" drive sockets
- Magnetic force on back of the rack mounts to tool drawer in seconds
- Keeps all sockets neat, organized and ready for use

### SMR17 17-1/4" Long Magnetic Rack (Blue-Point®)

- Strong rare earth magnets on front of rack holds 1/4, 3/8 and 1/2" drive sockets
- Magnetic force on back of the rack mounts to tool drawer in seconds
- Keeps all sockets neat, organized and ready for use

### YA161 24" Long Magnetic Bar Tool Holder

- Magnet holds tools for easy access
- Black finish

### YA162 13" Long Magnetic Bar Tool Holder

- Magnet holds tools for easy access
- Black finish

### YA209 24" Long Magnetic Bar Tool Holder

- Magnet holds tools for easy access
- Chrome finish

## Magnetic Trays and Dishes

### Magnetic Holders and Parts Trays

- Ideal for use on side of toolbox or service cart
- Attach to any flat metal surface
- Hold tools and fasteners magnetically, magnetic bottom
- Fit 2" and deeper drawers found in all Snap-on® tool storage product
- 21 x 7" to fit 3-wide in Masters and EPIQ Series drawers

### BLPMPT10A Magnetic Parts Tray

### BLPMPT12A Magnetic Parts Tray

### BLPMPT6A Magnetic Parts Tray

### BLPMPT8A Magnetic Parts Tray

### BLPMPTSETA 4 pc Magnetic Parts Trays (6, 8, 10 and 12") (Blue-Point®)

### BPMST135 13-1/2" Magnetic Storage Tray (Blue-Point®)

### KAMPTPAK 8 pk Large/Small Magna Panel Trays

### MRB10B Magnetic Tray (Blue-Point®)

### MRB15B Magnetic Tool Tray (Blue-Point®)

### MRB5B Magnetic Bowl (Blue-Point®)

### MRPB10MP5 Magnetic Dish (5 pk) (Blue-Point®)

### KADM21X71BK \* Magnetic Parts/Disassembly Tray Black

### KADM21X72BK \* Magnetic Parts/Disassembly Tray Black

### KADM21X73BK \* Magnetic Parts/Disassembly Tray Black

### KAMPT12X6R \*\* Magna Panel Tray Red

### KAMPT16X8R \*\* Magna Panel Tray Red



### Colors Available



\* BK — OR GN  
 \*\* BLK R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Images may be shown without actual warning labels  
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**MAGNETIC ACCESSORIES**



**KAMM1212**



**KAMM122**



**KAMM126**



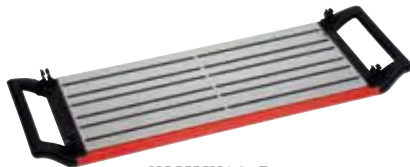
**KAMM612**



**KAMMX312R**



**KAMMX318R**



**KAMMX817R**

**Magnetic Panels**

- Magnetic base attaches to riser, toolbox, cart, creeper or any ferrous surface in seconds
- Tools are easily positioned on the magnetic panel
- Ideal for holding fasteners during removal and assembly operations
- High strength magnets
- Made from 3/16" thick 16-gauge steel
- Will not magnetize tools

**KAMM1212 12 x 12" Magnetic Panel (Blue-Point®)**

- Made from 3/16" (4.8 mm) thick 16-gauge steel
- Measures 12 x 12" (304.8 x 304.8 mm)

**KAMM122 Magnetic Panel (Blue-Point®)**

- Blue anodized aluminum
- Measures 10-5/8 x 2" (270 x 50.8 mm)

**KAMM126 Magnetic Panel (Blue-Point®)**

- Red anodized aluminum
- Measures 12 x 6" (304.8 x 152.4 mm)

**KAMM612 Magnetic Panel (Blue-Point®)**

- Measures 12 x 12"

**KAMMX312R Magna Stick Extreme 3 x 12"**

- Durable aluminum extrusions with composite end caps
- Heavy-duty magnets on front and back
- Can be used in any position
- Low-profile design
- Undercut handles for better grip when carrying heavy loads

**KAMMX318R Magna Stick Extreme 3 x 18"**

- Durable aluminum extrusions with composite end caps
- Heavy duty magnets on front and back
- Can be used in any position
- Low profile design
- Undercut handles for better grip when carrying heavy loads

**KAMMX817R Magna Stick Extreme 8 x 17"**

- Large 8" x 17" panel
- Integrated polymer handles and tool clips
- Durable aluminum extrusions with composite end caps
- Heavy duty magnets on front and back
- Can be used in any position
- Low profile design



**ACYSBINER**



**ACYWRNCHRING**



**ACYMAGADDON1**



**ACYMAGADDON2**



**ACYMAGPED**



**ACYMAGAUTOKT**



**ACYMAGPLATE**



**ACYMAGPLTEKT**



**ACYMAGSMBALL**



**ACYMAGAUTKT2**



**ACYMAGTLBXKT**



**ACYMAGVENT**



**ACYMAGWIND**



**ACYUNIVERSAL**



**ACY-CASEXL**



**ACY-HCASEVXX**



**ACY-HCASEHXX**

**Magnetic Electronic Device EZ-Mount**

- ACYSBINER** Locking S-Biner Accessory Clips
- ACYWRNCHRING** Tool Organizing Wrench Ring (12 rings)
- ACYMAGADDON1** EZ-Mount Small Magnetic Add-on
- ACYMAGADDON2** EZ-Mount Large Magnetic Add-on
- ACYMAGPED** EZ-Mount Pedestal Stand
- ACYMAGAUTOKT** EZ-Mount Magnetic Auto Kit
- ACYMAGPLATE** Orbiter Magnetic Socket
- ACYMAGPLTEKT** Orbiter Magnetic Socket Vehicle Kit
- ACYMAGSMBALL** EZ-Mount Add on Small Ball

- ACYMAGAUTKT2** EZ-Mount Universal Car Kit
- ACYMAGTLBXKT** EZ-Mount Magnetic Tool Box Kit
- ACYMAGVENT** EZ-Mount Automotive Vent Ball Add-On
- ACYMAGWIND** EZ-Mount Windshield Kit
- ACYUNIVERSAL** EZ-Mount Universal Component Add-on
- ACY-CASEXL** Sideways Nylon Phone Case
- ACY-REPLADH** Mount Adhesive Replacement Kit (not shown)
- ACY-HCASEVXX** XX-Large Vertical Phone Case
- ACY-HCASEHXX** XX-Large Horizontal Phone Case

**Magnetic Hook**

- Neodymium magnets hold up to 20 lb
  - Rubber coating on the base prevents scratches on painted surfaces
- KAHMPC** Magnetic Hanger



**KAHMPC**



• Images may be shown without actual warning labels  
 • Read safety precautions on pages W1 to W4

## MAGNETIC ACCESSORIES



**KACHMBLK**



**KACHMGN**



**KACHMRD**

(phone not included)

### Magnetic Cell Phone Holder

- Magnetic base sticks to post lift, cart, roll cab, or the side of a WorkCenter

**KACHMBLK Magnetic Cell Phone Holder**

**KACHMGN Magnetic Cell Phone Holder**

**KACHMRD Magnetic Cell Phone Holder**



**12MSKTHRED**



**12MSWHLDR**



**14MSWHLDR**



**38MSWHLDR**

### Magnetic Socket/Wrench Holders

**12MSKTHRED \* 1/2" Drive Metric/SAE Magnetic Socket Holder**

**14MSKTHRED \* 1/4" Drive Metric/SAE Magnetic Socket Holder**

**38MSKTHRED \* 3/8" Drive Metric/SAE Magnetic Socket Holder**

**12MSWHLDR Magnetic 1/2" Socket/Wrench Holder**

**14MSWHLDR Magnetic 1/4" Socket/Wrench Holder**

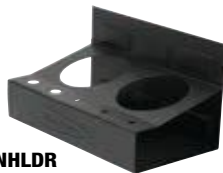
**38MSWHLDR Magnetic 3/8" Socket/Wrench Holder**

Colors Available



Black Red Orange Green

\* BLK RED ORG GRN  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**BLP2CANHLDR**



**BLP3CANHLDR**



**BLPPTHDR**

### Magnetic Can/Bottle Holders (Blue-Point®)

**BLP2CANHLDR Magnetic Can/Screwdriver Holder (Blue-Point®)**

- Ideal for use on the side of toolbox or service cart
- Holds (2) spray cans and (5) screwdrivers
- Spray can slot is 3" diameter
- Six powerful, cushioned magnets resist surface scratching
- Heavy-gauge 0.80 mm black powder-coated steel construction
- Weight: 1.92 lb
- Dimensions: 8-1/2" L x 5" W x 5-1/18" H

**BLP3CANHLDR Magnetic Can/Screwdriver Holder (Blue-Point®)**

- Holds (3) spray cans and (7) screwdrivers
- Spray can slot is 3" diameter
- Eight powerful cushioned magnets resist surface scratching
- Heavy gauge 0.80 mm black powder-coated steel construction
- Ideal for use on side of toolbox or service cart
- Weight: 2.62 lb
- Dimensions: 11-3/4" L x 5" W x 5-1/8" H

**BLPPTHDR Magnetic Roll Towel Holder (Blue-Point®)**

- Ideal for use on side of toolbox or service cart
- Holds roll of shop towels (set of two holders)
- Powerful cushioned magnet resists surface scratching
- Heavy-gauge 0.80 mm black powder-coated steel construction
- Weight: 1.38 lb
- Each piece measures 5-1/8" L x 4" W x 3-1/4" H



**KRDDMAG130**

### Flexible Magnetic Strip

**KRDDMAG130 Flexible Magnetic Strip**

- Magnetic adhesive-backed strip allows easy drawer divider attachment
- 1" W x 30' L

### Magnetic Tool Silhouettes

**KRSA30 Magnetic Tool Silhouettes**

- (30) 1 x 1-1/2" magnetic tool silhouettes
- Apply anywhere on tool storage unit to visually aid in tool organization
- Magnetic; leave no sticky adhesive



**KRSA30**

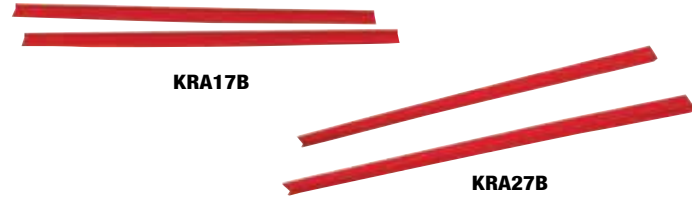
## Plastic Drawer Dividers

### KRA17B Drawer Divider

- Partition drawers by cutting divider to desired length
- Attach to drawer with foam backing
- 24" long
- Two per package

### KRA27B Drawer Divider

- Same as KRA17B
- 31" long
- Two per package



KADDS3024



KADDS2404

## Steel Drawer Dividers

- Made from galvanized steel
- Simply place the side edges and front/back edges around the perimeter of the drawer, and then locate middle dividers and divider tabs wherever they are needed (in 3, 5, 7, 10 and 15" width increments)

### KADDS2402 2" Drawer Divider Kit

- Tool storage divider set for common 2" wide drawer/24" deep units for the Masters and Classic Series

### KADDS2404 4" Drawer Divider Kit

- Tool storage dividers for the wide drawer common on 24" deep units

### KADDS2902 Steel Drawer Divider Set

- Use on Masters Series, 2" high, 31" wide drawers—common on 29" deep units

### KADDS2904 Steel Drawer Divider Set

- Perimeter rails with adjustable slots fit around the inside wall of the drawer
- Width and length of spaces offer a wide range of adjustment with a variety of divider widths
- Made from galvanized steel
- Use on Masters Series 4" high wide drawers (29" roll cab depth)
- Includes (4) perimeter rails, (3) front-to-back rails and (8) individual dividers

### KADDS3022 Steel Drawer Divider Set

- Use on 20" wide, 2" high EPIQ Series drawers
- Set includes (4) perimeter rails, (2) front-to-back rails and (6) individual dividers

### KADDS3024 Steel Drawer Divider Set

- Use on 20" wide, 4" high EPIQ Series drawers
- Set includes (4) perimeter rails, (2) front-to-back rails and (6) individual dividers

### KADDS3032 Steel Drawer Divider Set

- Use on 30" wide, 2" high EPIQ drawers
- Set includes (4) perimeter rails, (3) front-to-back rails and (8) individual dividers

### KADDS3034 Steel Drawer Divider Set

- Use on 30" wide, 4" high EPIQ Series drawers
- Set includes (4) perimeter rails, (2) front-to-back rails and (8) individual dividers

### KADDS3822 Steel Drawer Divider Set

- Use on 38" wide, 2" high EPIQ Series drawers
- Set includes (4) perimeter rails, (2) front-to-back rails and (6) individual dividers

### KADDS3844 Steel Drawer Divider Set

- Use on 38" wide, 4" high EPIQ Series drawers
- Set includes (4) perimeter rails, (2) front-to-back rails and (6) individual dividers

### KADDSN2402 Steel Drawer Divider Set

- Use on Masters or Classic Series, 2" high narrow drawers (24" roll cab depth)
- Set includes (4) perimeter rails, (2) front-to-back rails and (9) individual dividers

### KADDSN2404 Steel Drawer Divider Set

- Use on Masters or Classic Series, 4" high narrow drawers (24" roll cab depth)
- Set includes (4) perimeter rails, (2) front-to-back rails and (9) individual dividers

### KADDSN2902 Steel Drawer Divider Set

- Use on Masters Series, 2" high narrow drawers (29" roll cab depth)
- Set includes (4) perimeter rails, (2) front-to-back rails and (9) individual dividers

### KADDSN2904 Steel Drawer Divider Set

- Use on Masters Series, 4" high narrow drawers (29" roll cab depth)
- Set includes (4) perimeter rails, (2) front-to-back rails and (9) individual dividers



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

# DRAWER ORGANIZATION



**K2508L1PBN**



**K2508L2PBN**

**Colors Available**

|   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| Gloss Black   | Red   | Royal Blue  | Arctic Silver   |
| <b>PB</b>   | <b>PBN</b>  | <b>PCN</b>  | <b>ZBB</b>  |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Speedrawer Steel Drawer Dividers

- Add divider kit to drawer to create a Speedrawer
- Color-matched dividers to organize parts and a shop's common-use tools

| Stock No.                        | Description              | Product Name              |
|----------------------------------|--------------------------|---------------------------|
| <b>KSD Series Speedrawer Kit</b> |                          |                           |
| K5502L1PBN                       | 3 x 4 2" Drawer Divider  | KSD Series Speedrawer Kit |
| K5502L2PBN                       | 4 x 8 2" Drawer Divider  | KSD Series Speedrawer Kit |
| K5504L1PBN                       | 3 x 4 4" Drawer Divider  | KSD Series Speedrawer Kit |
| K5504L2PBN                       | 4 x 8 4" Drawer Divider  | KSD Series Speedrawer Kit |
| K5506L1PBN                       | 3 x 4 6" Drawer Divider  | KSD Series Speedrawer Kit |
| K5508L1PBN                       | 3 x 4 8" Drawer Divider  | KSD Series Speedrawer Kit |
| K5512L1PBN                       | 2 x 4 12" Drawer Divider | KSD Series Speedrawer Kit |
| <b>KSE Series Speedrawer Kit</b> |                          |                           |
| K4002L1PBN                       | 3 x 3 2" Drawer Divider  | KSE Series Speedrawer Kit |
| K4002L2PBN                       | 4 x 5 2" Drawer Divider  | KSE Series Speedrawer Kit |
| K4004L1PBN                       | 3 x 3 4" Drawer Divider  | KSE Series Speedrawer Kit |
| K4004L2PBN                       | 4 x 5 4" Drawer Divider  | KSE Series Speedrawer Kit |
| K4006L1PBN                       | 3 x 3 6" Drawer Divider  | KSE Series Speedrawer Kit |
| K4008L1PBN                       | 3 x 3 8" Drawer Divider  | KSE Series Speedrawer Kit |
| K4010L1PBN                       | 3 x 3 10" Drawer Divider | KSE Series Speedrawer Kit |
| K4012L1PBN                       | 3 x 3 12" Drawer Divider | KSE Series Speedrawer Kit |
| <b>KSN Series Speedrawer Kit</b> |                          |                           |
| K1802L1PBN                       | 3 x 3 2" Drawer Divider  | KSN Series Speedrawer Kit |
| K1802L2PBN                       | 4 x 4 2" Drawer Divider  | KSN Series Speedrawer Kit |
| K1804L1PBN                       | 3 x 3 4" Drawer Divider  | KSN Series Speedrawer Kit |
| K1804L2PBN                       | 4 x 4 4" Drawer Divider  | KSN Series Speedrawer Kit |
| K1806L1PBN                       | 2 x 2 6" Drawer Divider  | KSN Series Speedrawer Kit |
| K1808L1PBN                       | 2 x 2 8" Drawer Divider  | KSN Series Speedrawer Kit |
| K1808L2PBN                       | 3 x 3 8" Drawer Divider  | KSN Series Speedrawer Kit |
| K1810L1PBN                       | 2 x 2 10" Drawer Divider | KSN Series Speedrawer Kit |
| K1812L1PBN                       | 2 x 2 12" Drawer Divider | KSN Series Speedrawer Kit |
| <b>KSP Series Speedrawer Kit</b> |                          |                           |
| K3102L1PBN                       | 3 x 3 2" Drawer Divider  | KSP Series Speedrawer Kit |
| K3102L2PBN                       | 4 x 4 2" Drawer Divider  | KSP Series Speedrawer Kit |
| K3102L3PBN                       | 5 x 5 2" Drawer Divider  | KSP Series Speedrawer Kit |
| K3104L1PBN                       | 3 x 3 4" Drawer Divider  | KSP Series Speedrawer Kit |
| K3104L2PBN                       | 4 x 4 4" Drawer Divider  | KSP Series Speedrawer Kit |
| K3104L3PBN                       | 5 x 5 4" Drawer Divider  | KSP Series Speedrawer Kit |
| K3106L1PBN                       | 2 x 2 6" Drawer Divider  | KSP Series Speedrawer Kit |
| K3106L2PBN                       | 3 x 3 6" Drawer Divider  | KSP Series Speedrawer Kit |
| K3108L1PBN                       | 2 x 2 8" Drawer Divider  | KSP Series Speedrawer Kit |
| K3108L2PBN                       | 3 x 3 8" Drawer Divider  | KSP Series Speedrawer Kit |
| K3112L1PBN                       | 2 x 2 12" Drawer Divider | KSP Series Speedrawer Kit |
| <b>KSS Series Speedrawer Kit</b> |                          |                           |
| K2502L1PBN                       | 3 x 3 2" Drawer Divider  | KSS Series Speedrawer Kit |
| K2502L2PBN                       | 4 x 4 2" Drawer Divider  | KSS Series Speedrawer Kit |
| K2502L3PBN                       | 5 x 5 2" Drawer Divider  | KSS Series Speedrawer Kit |
| K2504L1PBN                       | 3 x 3 4" Drawer Divider  | KSS Series Speedrawer Kit |
| K2504L2PBN                       | 4 x 4 4" Drawer Divider  | KSS Series Speedrawer Kit |
| K2504L3PBN                       | 5 x 5 4" Drawer Divider  | KSS Series Speedrawer Kit |
| K2506L1PBN                       | 2 x 2 6" Drawer Divider  | KSS Series Speedrawer Kit |
| K2506L2PBN                       | 3 x 3 6" Drawer Divider  | KSS Series Speedrawer Kit |
| K2508L1PBN                       | 2 x 2 8" Drawer Divider  | KSS Series Speedrawer Kit |
| K2508L2PBN                       | 3 x 3 8" Drawer Divider  | KSS Series Speedrawer Kit |



## Color "S" Logo Floor Mats

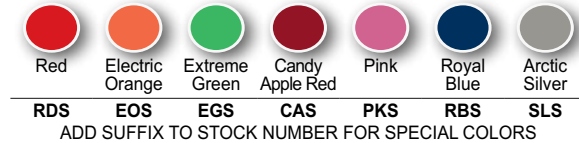
- "S" logo graphics on the floor mat are color coded to match the color of the tool box
- Anti-fatigue cushioned floor mat—54" L x 36" W
- Floor mat eases lower back stress and leg and foot discomfort from prolonged standing on hard surfaces
- Floor mat resists most shop chemicals and provides a sure footing surface

| Stock No.    | Size, inches | Color |
|--------------|--------------|-------|
| JKAFM3654RDS | 54 x 36      | Red   |



JKAFM3654RDS

### Colors Available



## Cushioned Floor Mats

- Exceptional anti-fatigue properties
- Ease lower back stress and leg and foot discomforts from prolonged standing on hard surfaces
- Underpadding hugs the smoothest floor surfaces to prevent mat slippage
- Skid-resistant diamond-plate mat surface provides sure footing
- Mat resists most shop chemicals
- Graphics are inlaid PVC for greater wear resistance

| Stock No.   | Color     | Size, inches |
|-------------|-----------|--------------|
| JKAFM2436BK | Black     | 24 x 36      |
| JKAFM2436BR | Black/Red | 24 x 36      |
| JKAFM2448BK | Black     | 24 x 48      |
| JKAFM2448BR | Black/Red | 24 x 48      |
| JKAFM2460BK | Black     | 24 x 60      |
| JKAFM2460BR | Black/Red | 24 x 60      |
| JKAFM2472BK | Black     | 24 x 72      |
| JKAFM2472BR | Black/Red | 24 x 72      |
| JKAFM3636BK | Black     | 36 x 36      |
| JKAFM3636BR | Black/Red | 36 x 36      |
| JKAFM3648BK | Black     | 36 x 48      |
| JKAFM3648BR | Black/Red | 36 x 48      |

| Stock No.   | Color      | Size, inches |
|-------------|------------|--------------|
| JKAFM3660BK | Black      | 36 x 60      |
| JKAFM3672BK | Black      | 36 x 72      |
| JKAFM3672BR | Black/Red  | 36 x 72      |
| JKAFM3676BK | Black      | 36 x 76      |
| JKAFM3676BR | Black/Red  | 36 x 76      |
| JKAFM3684BK | Black      | 36 x 84      |
| JKAFM3684BR | Black/Red  | 36 x 84      |
| JKAFM3660BR | Black/Red  | 36 x 60      |
| JKAFM2436GY | Grey/Black | 24 x 36      |
| JKAFM2448GY | Grey/Black | 24 x 48      |
| JKAFM2460GY | Grey/Black | 24 x 60      |
| JKAFM2472GY | Grey/Black | 24 x 72      |



JKAFM2436BK



JKAFM2448BR



JKAFM2460GY

## Dense Cushioned Floor Mats

- Dense 3/4" engineered polyurethane for knee and back support

| Stock No. | Color               | Size, inches |
|-----------|---------------------|--------------|
| KAFM32    | Black with Red Logo | 36 x 24      |
| KAFM52    | Black with Red Logo | 60 x 24      |
| KAFM53    | Black with Red Logo | 60 x 36      |



KAFM32

## LOCKER TOPPERS: CLASSIC AND MASTERS SERIES

### KA71273 Series Locker Toppers

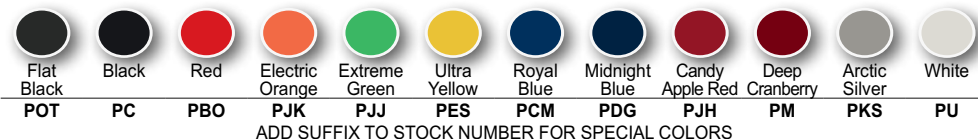
- Rubber mat and hardware included
- Use on KRL712 Master Series Lockers

| Stock No.  | Color |
|------------|-------|
| KA71273PBO | Red   |



KA2473PBO

### Colors Available



• Read safety precautions on pages W1 to W4

## MISCELLANEOUS ACCESSORIES



SS2201A



SS2753A



SS2232A



SS2937A



SS2440B



SS3265A



SS2442B



SS3266A

### Logo and Racing Decals

(Background is not a part of decal.) Logo and racing decals show customers that you use the best while supporting Snap-on® Racing™ programs.

| Stock No. | Color       | Suggested Tool Storage Unit Color | Size, inches |
|-----------|-------------|-----------------------------------|--------------|
| SS2201A   | White       | Red                               | 13 x 8-1/2   |
| SS2231A   | Silver      | Black                             | 23 x 4       |
| SS2232A   | Black       | Red                               | 24 x 4       |
| SS2240A   | Black       | Red                               | 13 x 8-1/2   |
| SS2241A   | Silver      | Black                             | 13 x 8-1/2   |
| SS2440B   | White/Black | Black                             | 17 x 6       |
| SS2441B   | White/Red   | Red/Green                         | 17 x 6       |
| SS2442B   | White/Blue  | Blue                              | 17 x 6       |
| SS2443B   | Black       | Yellow/Orange                     | 17 x 6       |
| SS2751A   | White       | Black                             | 43 x 8       |
| SS2752A   | Black       | Red                               | 43 x 8       |
| SS2753A   | Silver      | Black                             | 43 x 8       |
| SS2808A   | Red         | Black                             | 23 x 4       |
| SS2809A   | Red         | Black                             | 43 x 8       |
| SS2810A   | Red         | Black                             | 13 x 8-1/2   |
| SS2935A   | White       | Black                             | 23 x 15      |
| SS2936A   | Silver      | Black                             | 23 x 15      |
| SS2937A   | Black       | Red                               | 23 x 15      |
| SS2938A   | Red         | Black                             | 23 x 15      |
| SS3262A   | White       | Black                             | 36 x 12      |
| SS3265A   | Black       | Red                               | 36 x 12      |
| SS3266A   | White       | Black                             | 23 x 4       |



8-27336A

### Locking Bars

Serve as a secondary locking system when ultimate protection is called for. Padlock must be purchased separately. Hardware included.

#### KRABL2 Lock Bar

- 32" long
- For use on all KRA Series Roll Cabs except KRA2400 Series

#### 8-27336A Lock Bar

- Fits all Heritage and Blue-Point® hinged manual lock bars
- Secondary lock system uses padlock for extra security (not included)

#### 8-26836A Lock Bar

- Hinged secondary lock bar fits side of low-profile KRL Roll Cabs such as KRL756 Series (similar to 8-27336A)



ML1A



ML1504DA

### Padlocks

Master Lock® padlocks. Brass cylinders, nickel/silver pin tumblers and brass locking levers for maximum locking protection.

#### ML1A Padlock

- 1-3/4" steel case, 5/16" dia

#### ML3A Padlock

- 1-1/2" steel case, 9/32" dia

#### ML7A Padlock

- 1-1/4" steel case, 3/16" dia

#### ML1504DA Combination Padlock

- Case-hardened 9/32" steel shackle offers protection against cutting and sawing
- Secure three-digit combination
- Automatic locking lever



KAFM22RD



MAT13PK



MAT38PK

**Kneeling Mats**

**KAFM22RD Extra-Dense Personal Floor Mat**

- Standing or kneeling on the 1 pc molded, dense 3/4" engineered polyurethane material feels like floating and reduces fatigue in back, knees and feet
- Superior all-day comfort when standing or kneeling
- Store and carry with integrated handle
- Slip-resistant top surface and non-skid bottom
- Abrasion-resistant black surface with red Snap-on® logo retains appearance
- Material resists absorption of water and oils; can be spray washed with water
- 22 x 18"

**MAT19PK 5-Pack Kneeling Mats**

- Kneeling mat is constructed from three layers of high-density foam for comfort
- Black with Snap-on® logo
- Handle for ease of carrying
- Only available in a package of five

**MAT13PK 5-Pack Kneeling Mats**

- Cushioned floor mat can help reduce fatigue, protect clothing and increase comfort
- Multi-layered closed-foam construction is durable and tear resistant
- Resistant to most shop chemicals
- Measures 8-1/2 x 13 x 1-1/8" thick
- Only available in a package of five

**MAT38PK 5-Pack Kneeling Mats**

- Cushioned creeper mat can be used on a creeper or on the floor
- Multi-layered foam construction is durable and tear resistant
- Resistant to most shop chemicals
- Measures 15-3/4 x 38-1/2 x 1-1/8" thick
- Only available in a package of five

**Accessory Box**

**KRA444A Accessory Box**

- Lockable box mounts inside roll cab or tool chest for protection of valuables
- 8-1/4 x 4-3/4 x 1-1/4"
- Requires 2" minimum drawer depth

**KRA444APV Accessory Box**

- Same as KRA444A with black textured finish

**KRA444APC Accessory Box Gloss Black**

**KRA444APCM Accessory Box Royal Blue**



KRA444A



KRF6AR

**Floor Lock Kit**

**KRF6AR Adjustable Floor Lock Kit**

- For KRL Masters series
- 29" deep, 54" wide and larger

**Keychain**

**GA155A Keychain (Blue-Point®)**

- Spring retractable, 24" chain
- Clips onto belt or pocket



GA155A

**Step Stools**

**KASS13 Step Stool/Seat**

- Versatile step stool, seat and storage unit all in one
- Holds up to 305 lb and has non-skid rubber grommets for stability
- Large interior storage capacity with built-in tote tray
- Has a handle for mobility that folds flat when used as a stool
- 13" H x 22" W x 15" D



KASS13

**Cleaning Supplies**

**KACKCLEANER Cleaner/Degreaser**

- Safely removes grease, dirt, oil, fingerprints and more
- 16 oz

**KACKFLTCLNR Matte and Flat Finish Cleaner/Degreaser**

- Safely removes grease, dirt, oil, fingerprints and more
- Cleans without adding a shine to a flat/matte surface
- 16 oz

**KACKSPDWAXX Speed Wax**

- Brings back the shine, resists water spots, dust, fingerprints and grease
- 16 oz

**KACKMCFIBER1 Microfiber Cloth**

- Microfiber cloth is machine-washable, lint-free and can be used wet or dry
- 16 x 16"

**KACKMCFIBER4 4-Pack Microfiber Cloth**

- Microfiber cloth is machine-washable, lint-free and can be used wet or dry
- Each cloth is 16 x 16"

**KACKCAREKIT**

**4 pc Premium Care Kit**

- Safely remove grease, dirt, oil, fingerprints and more with the Cleaner/Degreaser
- Bring back the shine and resist water spots, dust, fingerprints and grease with the Speed Wax
- Safely clean, polish and protect stainless steel and anodized aluminum with the Liquid Polish
- Microfiber cloth is machine-washable, lint-free and can be used wet or dry
- Kit includes (1) 1.7 oz bottle of Spray Cleaner, (1) 1.7 oz bottle of Liquid Polish, (1) 3.4 oz bottle of Speed Wax and (1) 16 x 16" microfiber cloth



KACKCLEANER



KACKCAREKIT



• Images may be shown without actual warning labels  
• Read safety precautions on pages W1 to W4

## TOOL STORAGE MAINTENANCE



### K1HLA ‡ Heavy-Duty Brass Lock

- One lock assembly with (2) keys

### K2HLA ‡ Heavy-Duty Brass Lock

- Two keyed-alike lock assemblies with (2) keys

### K3HLA ‡ Heavy-Duty Brass Lock

- Three keyed-alike lock assemblies with (3) keys

### K4HLA ‡ Heavy-Duty Brass Lock

- Four keyed-alike lock assemblies with (4) keys



### K1LA Tubular Lock Assembly

- One lock assembly with (2) keys

### K2LA Tubular Lock Assembly

- Two keyed-alike lock assemblies with (2) keys

### K3LA Tubular Lock Assembly

- Three keyed-alike lock assemblies with (3) keys

### K4LA Tubular Lock Assembly

- Four keyed-alike lock assemblies with (4) keys

## Heavy-Duty Brass Locks

- Can be used to replace all Snap-on® round key (K-Series) locks
- Replace standard locks subject to abnormal usage, exposure to shop fluids, or extreme temperature and humidity fluctuations
- Ideal for multi-shift/user situations
- Hard brass cylinder plug for a longer life cycle
- Highly finished brass cylinder plug for smoother operation
- More secure retention in the tool storage unit
- Tested to operate smoothly over 25,000 cycles
- 200 different cylinder plugs available as replacement items

### K5HLA ‡ Heavy-Duty Brass Lock

- Five keyed-alike lock assemblies with (5) keys

### K6HLA ‡ Heavy-Duty Brass Lock

- Six keyed-alike lock assemblies with (6) keys

### K7HLA ‡ Heavy-Duty Brass Lock

- Seven keyed-alike lock assemblies with (7) keys

## Lock Assemblies

- Key alike any number of Snap-on® tool storage units
- Older units can be converted to this new style lock
- Each lock has an individual combination
- Lock kits include mounting nut and lock washer

### K5LA Tubular Lock Assembly

- Five keyed-alike lock assemblies with (5) keys

### K6LA Tubular Lock Assembly

- Six keyed-alike lock assemblies with (6) keys

### K7LA Tubular Lock Assembly

- Seven keyed-alike lock assemblies with (7) keys



REP12A



PN1286308



PN286308

## Touch-up Paint

| Color            | 1/2 oz. Bottle Stock No. | 12 oz. Spray Can Stock No. | PPG Powder Number | PPG Ditzler Wet Spray Number |
|------------------|--------------------------|----------------------------|-------------------|------------------------------|
| Red              | PN2-83408                | REP12A                     | AR320 Resin       | 73504                        |
| Gloss Black      | PN2-84208                | PN12-84208                 | PCU-90200         | 9895 (9300)                  |
| Black (Textured) | PN12-84908               | —                          | PCU-90106         | 9817                         |
| Royal Blue       | PN286308                 | PN1286308                  | PCU-50134         | 19026                        |
| Deep Cranberry   | PN2-84508                | PN12-84508                 | PCU-60139         | 51797                        |
| Ultra Yellow     | PN2-87808                | PN12-87808                 | PCU-30115         | 84199                        |
| Green Mica       | PN286708                 | PN1286708                  | PCU-43100         | 47767                        |
| Purple           | PN2-87408                | PN12-87408                 | PCU-60122         | 52560                        |
| Candy Apple Red  | PN2-809508A              | PN12-809508A               | PCU-60137         | 902979                       |
| Electric Orange  | PN2-809908A              | PN12-809908A               | PCU-30132         | 906121                       |
| Arctic Silver    | PN2-810208A              | PN12-810208A               | PCU-73120         | 910517                       |
| Extreme Green    | PN2-809808A              | PN12-809808A               | PCU-40134         | 906120                       |
| Tractor Green    | PN2-85308                | PN12-85308                 | PCU-40400         | 47403                        |
| White            | PN285208                 | PN1285208                  | PCU-80103         | 91207                        |
| Midnight Blue    | PN2-87308                | PN12-87308                 | PCU-50117         | 191009                       |
| Flat Black       | PN2-811308A              | PN12-811308A               | PCUP-90105        | —                            |
| Clear            | PN2-CLEAR                | PN12-CLEAR                 | —                 | —                            |
| Storm Gray       | PN2-812208               | PN12-812208A               | —                 | 931377                       |
| Teal             | PN2-84308                | PN12-84308                 | PCU-50100         | 47333                        |
| Combat Green     | PN2-813108A              | PN12-813108A               | —                 | —                            |
| Combat Tan       | PN2-813208               | PN12-813208A               | —                 | —                            |
| Supersonic Blue  | PN2-813408A              | PN12-813408A               | —                 | 952519                       |

# HAND TOOLS

|                              |     |
|------------------------------|-----|
| OVERVIEW                     | 124 |
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# A CENTURY AFTER REVOLUTIONIZING HAND TOOLS, THE INNOVATION CONTINUES.

Since introducing the first “5 do the work of 50” socket system in 1920, Snap-on® has ushered in one groundbreaking hand tool innovation after another. While we continue to use the best raw materials and manufacturing processes, we’re also continually improving the features and performance of our tools. For instance, on the heels of our industry-leading Flank Drive® sockets, we created our FDX® sockets that deliver even more strength and turning power. Because we know our reputation is only as good as the next Snap-on® tool you purchase.



**FLANK DRIVE® WRENCHING SYSTEM** This proprietary system contacts the fastener flats, adding up to 20% more torque, while simultaneously preventing any rounding of the fasteners.



**FLANK DRIVE® PLUS** By providing more flat-to-flat contact with fasteners, this feature delivers far more turning power than standard open and box-end wrenches.



**FLANK DRIVE® XTRA SOCKETS** Our revolutionary FDX sockets deliver up to 25% more strength and 50% more turning power on damaged fasteners than Flank Drive® sockets, with a grippable outer wall for easier removal.



**DUAL 80® TECHNOLOGY** Another exclusive Snap-on® advantage, this technology features dual pawls and up to an 80-tooth gear for a smaller ratcheting arc and greater power in less lateral space.



**VECTOREDGE CUTTERS & TALON GRIP™ PLIERS** Our cutters and pliers deliver cleaner cuts and more pulling power, as well as greater comfort and leverage.



**TECHANGLE® TORQUE WRENCH** Featuring advanced technology, our TechAngle® wrench is the most accurate way to achieve torque and angle-tightening sequences.



**STRONG AND ENDURING** Forged from special steel containing a higher alloy content than other tool makers use, our hand tools perform better and last longer.



**PRECISE FIT** Exact manufacturing tolerances ensure a tighter fit to fasteners and lessen the chance of slippage or damage.



**ACCESSIBILITY** Snap-on continues to lead the way in designing tools that help you reach the increasingly challenging tight spots of today’s vehicles.



**BREADTH OF LINE** As this catalog demonstrates, if there’s a need for it, we manufacture it. No one matches our depth and range of hand tools.



Snap-on

15mm

# 1/4" DRIVE TOOLS

THE SMALLEST DETAILS CAN MAKE THE BIGGEST DIFFERENCE WHEN YOU'RE WORKING IN CHALLENGING SPACES. THAT'S WHY OUR 1/4" DRIVE TOOLS ARE ENGINEERED TO HELP YOU ACCESS TIGHT SPOTS OTHER TOOLS CAN'T. AFTER ALL, YOU CAN ONLY FIX WHAT YOU CAN GET TO.

## A LOW-PROFILE DESIGN THAT INCORPORATES HIGH-PROFILE FEATURES.

Our 1/4" ratchets, sockets and extensions (like our exclusive Wobble Plus extensions that provide 16° of additional accessibility) not only let you reach the tight spaces, they help you finish the job. Our Dual 80° Technology ratchets and Flank Drive® sockets offer advantages like a smaller ratcheting arc and up to 20% more torque, while preventing the rounding of fasteners. And while they're designed for all fasteners, our FDX® sockets also provide 50% more turning power on damaged ones.





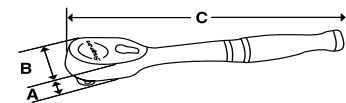


## Dual 80® Technology Ratchets

Stop, turn and listen. A smoother, stronger ratchet. Try them to believe them.

Dual 80® Technology Ratchets feature:

- 72-tooth gear
- Six teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



| Stock No. | Description                             | Gear Teeth | Swing Arc | A    | B     | C        | Repair Kit | Replacement Cover Plate | Joint Repair Kit | Replacement Grip | Locking Mechanism Repair Kit |
|-----------|---|------------|-----------|------|-------|----------|------------|-------------------------|------------------|------------------|------------------------------|
| T72       | Standard Handle                         | 72         | 5         | 7/16 | 15/16 | 4-7/16   | RKRT72A    | T72-2                   | —                | —                | —                            |
| TL72      | Long Handle                             | 72         | 5         | 7/16 | 15/16 | 6-1/2    | RKRT72A    | T72-2                   | —                | —                | —                            |
| TLL72     | Extra-Long Handle                       | 72         | 5         | 7/16 | 15/16 | 9        | RKRT72A    | T72-2                   | —                | —                | —                            |
| THL72     | Long Soft Grip Handle                   | 72         | 5         | 7/16 | 15/16 | 6-7/8    | RKRT72A    | T72-2                   | —                | TH936-12         | —                            |
| THLL72    | Extra-Long Soft Grip Handle             | 72         | 5         | 7/16 | 15/16 | 9-3/4    | RKRT72A    | T72-2                   | —                | TH936-12         | —                            |
| TF72      | Standard Handle Flex Head               | 72         | 5         | 7/16 | 15/16 | 6-1/4    | RKRT72A    | T72-2                   | RKRT841JT        | —                | —                            |
| TLLF72    | Extra-Long Handle Flex Head             | 72         | 5         | 7/16 | 15/16 | 10-1/2   | RKRTLLF72A | TLLF72-2                | RKRT841JT        | —                | —                            |
| TSLF72    | Speeder Handle Flex Head                | 72         | 5         | 3/8  | 4     | 1-1/2    | RKRTLLF72A | T72-2                   | RKRT841JT        | —                | —                            |
| THLF72    | Long Soft Grip Handle Flex Head         | 72         | 5         | 7/16 | 15/16 | 8-1/4    | RKRT72A    | T72-2                   | RKRT841JT        | TH936-12         | —                            |
| THLLF72   | Extra-Long Soft Grip Handle Flex Head   | 72         | 5         | 7/16 | 15/16 | 12-13/32 | RKRTLLF72A | TLLF72-2                | RKRT841JT        | TH936-12         | —                            |
| TX72      | Standard Handle Locking Flex Head       | 72         | 5         | 7/16 | 15/16 | 6-1/4    | RKRT72A    | T72-2                   | RKRT841JT        | —                | RKRT841LM                    |
| THLX72    | Long Soft Grip Handle Locking Flex Head | 72         | 5         | 7/16 | 15/16 | 8-1/4    | RKRT72A    | T72-2                   | RKRT841JT        | TH936-12         | RKRT841LM                    |
| GT72      | Standard Handle Industrial              | 72         | 5         | 7/16 | 15/16 | 4-7/16   | RKRT72A    | T72-2                   | —                | —                | —                            |
| TM72      | Standard Handle Bit Driver              | 72         | 5         | 7/16 | 15/16 | 4-7/16   | RKRTM72A   | —                       | —                | —                | —                            |
| TXM72     | Standard Handle Locking Flex Bit Driver | 72         | 5         | 7/16 | 15/16 | 6-1/4    | RKRTM72A   | —                       | —                | —                | —                            |

ASME®/ANSI® B107.10  
TH936-12 Soft Grip Replacement Handle

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

## RATCHETS



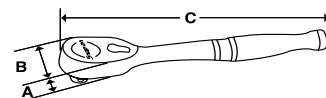
TR72



TRLL72



THR72



TRF72



THRLF72



TRX72



THRLX72



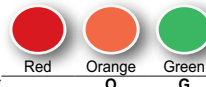
### Quick-Release Ratchets

- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Contoured handle for comfort and control
- Chrome finish for easy cleanup



THRLLF72

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

| Stock No. | Description   | Gear Teeth | Swing Arc | A    | B     | C        | Repair Kit  | Replacement Cover Plate | Joint Repair Kit | Replacement Grip | Locking Mechanism Repair Kit |
|-----------|---|------------|-----------|------|-------|----------|-------------|-------------------------|------------------|------------------|------------------------------|
| TR72      | Standard Quick-Release Handle                       | 72         | 5         | 7/16 | 15/16 | 4-7/16   | RKRTR72A    | T72-2                   | —                | —                | —                            |
| TRLL72    | Extra-Long Handle Quick-Release                     | 72         | 5         | 7/16 | 15/16 | 9        | RKRTR72A    | T72-2                   | —                | —                | —                            |
| THR72*†   | Standard Soft Grip Quick-Release                    | 72         | 5         | 7/16 | 15/16 | 6-7/8    | RKRTR72A    | T72-2                   | —                | TH936-12         | —                            |
| TRF72     | Standard Handle Quick-Release Flex Head             | 72         | 5         | 7/16 | 15/16 | 6-1/4    | RKRTR72A    | T72-2                   | RKRT841JT        | —                | —                            |
| THRLF72*† | Long Handle Quick-Release Flex Head                 | 72         | 5         | 7/16 | 15/16 | 8-1/4    | RKRTR72A    | T72-2                   | RKRT841JT        | TH936-12         | —                            |
| TRX72     | Standard Handle Locking Flex Head                   | 72         | 5         | 7/16 | 15/16 | 6-1/4    | RKRTR72A    | T72-2                   | RKRT841JT        | —                | RKRT841LM                    |
| THRLX72*† | Long Handle Quick-Release Locking Flex Head         | 72         | 5         | 7/16 | 15/16 | 6-7/8    | RKRTR72A    | T72-2                   | RKRT841JT        | TH936-12         | RKRT841LM                    |
| THRLLF72† | Extra-Long Soft Grip Handle Quick-Release Flex Head | 72         | 5         | 7/16 | 15/16 | 12-13/32 | RKRTRLLF72A | TLLF72-2                | RKRT841JT        | TH936-12         | —                            |

ASME®/ANSI® B107.10

†TH936-12 Soft Grip Replacement Handle



TS72



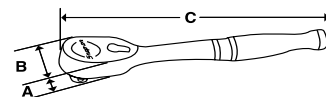
TKN72



TN72



TNF72



THNF72



TNFM72

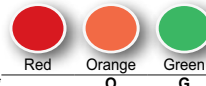


THNFM72



TZERO

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Round Head Ratchets

- Compact round head provides better access into tight quarters
- 72-tooth gear for 5° of swing arc means shorter movement between tooth engagement

| Stock No. | Description                                     | Gear Teeth | Swing Arc | A    | B     | C      | Repair Kit | Replacement Grip |
|-----------|---|------------|-----------|------|-------|--------|------------|------------------|
| TS72      | Fingertip Round Head                            | 72         | 5         | 7/16 | 1-1/4 | 1-1/4  | RKRTHNF72  | —                |
| TKN72     | Stubby Handle Round Head                        | 72         | 5         | 7/16 | 1-1/4 | 3-1/4  | RKRTHNF72  | —                |
| TN72      | Standard Handle Round Head                      | 72         | 5         | 7/16 | 1-1/4 | 4-1/2  | RKRTHNF72  | —                |
| TNF72     | Standard Handle Round Swivel Head               | 72         | 5         | 7/16 | 1-1/4 | 5-7/16 | RKRTHNF72  | —                |
| THNF72*†  | Soft Grip Round Swivel Head                     | 72         | 5         | 7/16 | 1-1/4 | 6-7/8  | RKRTHNF72  | TH936-12         |
| TNFM72    | Standard Handle Round Swivel Bit                | 72         | 5         | 7/16 | 1-1/4 | 5-7/16 | RKRTNFM72  | —                |
| THNFM72†  | Soft Grip Round Swivel Bit Ratchet              | 72         | 5         | 7/16 | 1-1/4 | 6-7/8  | RKRTNFM72  | TH936-12         |
| TZERO     | 1/4" Drive Standard Gearless Round Head Ratchet | 0          | —         | 7/16 | 1-1/4 | 4-1/2  | RKRTZERO   | —                |

ASME®/ANSI® B107.10

†Uses TH936-12 Soft Grip Replacement Handle



## Low-Profile Ratchets (11 mm Internal Hex Drive)

- Square drive works with low-profile sockets to access restricted clearance areas without loss of strength
- Thin handle cross section allows for increased accessibility in tight quarters
- Dual 80® Technology requires less arc to engage the next gear tooth
- Six teeth in contact with gear to provide strength and durability



| Stock No. | Description                    | Gear Teeth | Swing Arc | A   | B     | C     |
|-----------|--------------------------------|------------|-----------|-----|-------|-------|
| RAT72A    | 11 mm Internal Hex Low-Profile | 72         | 5         | 3/8 | 15/16 | 4-7/8 |



GT72FOD



GTL72FOD



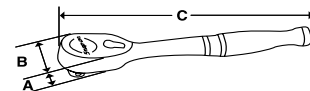
T72FOD



TL72FOD

## Foreign Object Damage (FOD) Ratchet (1/4")

- Designed to help prevent foreign object damage in sensitive work environments
- Cover plate and reverse lever permanently affixed to ratchet head with rivets to prevent chance of small parts debris



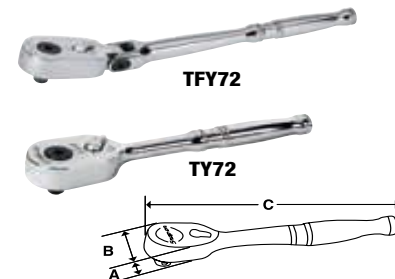
| Stock No. | Description                                  | Gear Teeth | Swing Arc | A    | B     | C       |
|-----------|--|------------|-----------|------|-------|---------|
| GT72FOD   | Industrial Handle Foreign Object Damage      | 72         | 5         | 7/16 | 15/16 | 4-11/16 |
| GTL72FOD  | Long Industrial Handle Foreign Object Damage | 72         | 5         | 7/16 | 15/16 | 6-1/2   |
| T72FOD    | Standard Handle Foreign Object Damage        | 72         | 5         | 7/16 | 15/16 | 4-11/16 |
| TL72FOD   | Long Handle Foreign Object Damage            | 72         | 5         | 7/16 | 15/16 | 6-1/2   |

ASME®/ANSI® B107.10

## Special Application Ratchets

Snap-on® ratchets are put through rigorous testing to perform in the real world and provide trouble-free performance that stands the test of time. Snap-on® ratchets are designed to have the lowest profile and work with the shortest swing arc, providing better access to restricted areas.

- Dual 80® Ratchet Technology features dual pawls and a 72 tooth gear providing for more power in less lateral space
- Six teeth in full contact with gear to provide strength and durability
- A mere 5° ratcheting arc
- Sealed head keeps dirt and other contaminants out of the head mechanism
- For use with standard or Hi-Lok® sockets



| Stock No. | Description                       | Gear Teeth | Swing Arc | A    | B     | C     |
|-----------|-----------------------------------|------------|-----------|------|-------|-------|
| TFY72     | Standard Handle Hi-Lok® Flex Head | 72         | 5         | 7/16 | 15/16 | 6-1/4 |
| TY72      | Standard Handle Hi-Lok®           | 72         | 5         | 7/16 | 15/16 | 4-5/8 |

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TMS70A

## Ratchet Spinners (1/4")

| Stock No. | Description | A | B   |
|-----------|-------------|---|-----|
| TMS70A    | Spinner     | 1 | 7/8 |

ASME®/ANSI® B107.10



TM77

## Ratchet Adaptor, Chrome (1/4")

| Stock No. | Description      | Gear Teeth | Swing Arc | A     | B     |
|-----------|------------------|------------|-----------|-------|-------|
| TM77      | 20-Tooth Adaptor | 20         | 18        | 15/16 | 1-5/8 |

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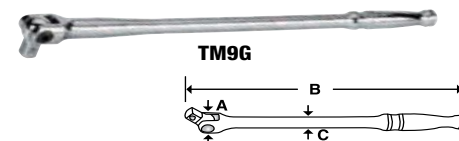
## BREAKER BARS



TM10G



THBB10



TM9G

## Breaker Bars, Chrome (1/4")

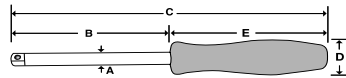
| Stock No. | Description                        | A   | B     | C    | Repair Kit |
|-----------|------------------------------------|-----|-------|------|------------|
| TM10G     | 1/4" Drive 6"                      | 5/8 | 6     | 5/16 | RKBB1      |
| THBB10    | 1/4" Drive 6-1/2" Soft Grip Handle | 5/8 | 6-1/2 | 5/16 | RKBB1      |
| TM9G      | 1/4" Drive 9"                      | 5/8 | 9     | 5/16 | RKBB1      |

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- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## DRIVE HANDLES



SGT4BR

SGTL4BR

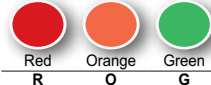
### Handled Drivers/Instinct® Handle

- Provides maximum turning power and increased comfort
- Six specially designed curves and flutes provide fingertip control and aid in spinning
- Nickel-chrome plating helps protect against corrosion and makes cleaning easy

| Stock No. | A    | B     | C       |
|-----------|------|-------|---------|
| SGT4BR*   | 5/16 | 2     | 6-13/16 |
| SGTL4BR   | 5/16 | 3-1/4 | 8-1/8   |

SGTL4BR features a locking pin for better socket retention.

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



TM40ASA



TM9CSA

TM4CSA

### Handled Drivers / Square Drive Handle

- Internal square drive in handle allows use with various handles

| Stock No. | A    | B     | C  |
|-----------|------|-------|----|
| TM9CSA    | 5/16 | 6-3/8 | 10 |
| TM4CSA*   | 5/16 | 2-3/8 | 6  |

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Handled Driver/Stubby

| Stock No. | C     | E     |
|-----------|-------|-------|
| TM40ASA   | 2-1/8 | 1-3/4 |



TMR4

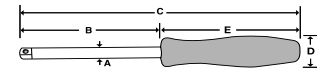


TMRT8

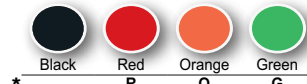
### Ratcheting Drivers

- Use with any 1/4" drive socket to create a ratcheting nut driver
- 3-position ratchet mechanism works in forward, reverse or lock out the ratcheting action completely

| Stock No. | A    | B     | C       | E      |
|-----------|------|-------|---------|--------|
| TMR4*     | 5/16 | 3-7/8 | 8-31/32 | 5-3/32 |
| TMRT8     | 5/16 | 8     | 10      | 2      |



#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



TM62B

TM63A



TM615



TM615

### Flexible Drivers

- For low-torque applications
- Flexible shank allows better access around obstructions

| Stock No. | A   | B       | C       |
|-----------|-----|---------|---------|
| TM62B     | 1/4 | 2-7/32  | 6-3/4   |
| TM63A     | 1/4 | 4-21/32 | 9-3/16  |
| TM615     | 1/4 | 15      | 18-9/16 |

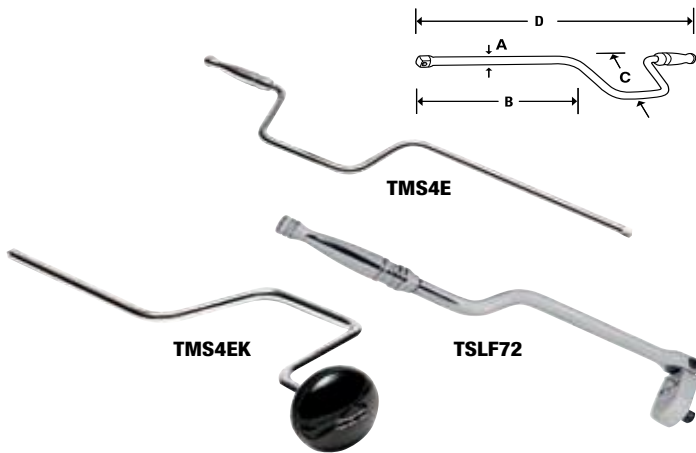
### Carburetor Adjustment Tools

#### 1/4" Drive Standard Handle Extra-Long Flexible Driver

- Designed for carburetor work; this driver can also access recessed distributors
- 1/4" drive at the end of a tough but flexible spring steel shank
- Ideal to access hard-to-reach adjusting screws
- Intended for low-torque applications

| Stock No. | A   | B  | C       |
|-----------|-----|----|---------|
| TM615     | 1/4 | 15 | 18-9/16 |

## DRIVE HANDLES



### Speeders, Chrome

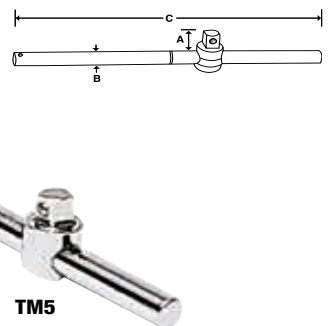
| Stock No. | A    | B     | C     | D       |
|-----------|------|-------|-------|---------|
| TMS4E     | 5/16 | 7-1/8 | 3     | 16      |
| TMS4EK    | 5/16 | 7-1/8 | 3     | 15-1/32 |
| TSLF72    | 3/8  | 4     | 1-1/2 | 9-5/8   |

### Sliding T-Handle, Chrome

- Designed for heavier applications
- For use as a T-handle or offset wrench
- Spring and friction ball holds head in position

| Stock No. | A     | B    | C     |
|-----------|-------|------|-------|
| TM5       | 13/16 | 5/16 | 4-1/2 |

ASME®/ANSI® B107.10



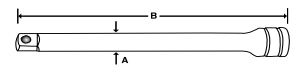
### Knurled Extensions, Chrome

- Chamfered drive ends for easy engagement
- Small diameter shank for maximum accessibility
- Cold formed for robust performance and made from a single piece of steel
- Knurled shaft provides fingertip control
- Includes plastic storage tray

| Stock No. | Industrial Stock No.† | A    | B     | Set Contains: |             |
|-----------|-----------------------|------|-------|---------------|-------------|
|           |                       |      |       | 106BTMX       | 106ATMXWFR* |
| TMX1*     | GTMX1                 | 5/16 | 1-1/4 | •             | •           |
| TMXK2**   | GTMX2*                | 5/16 | 2     | •             | •           |
| TMXK3     | —                     | 5/16 | 3     |               |             |
| TMXK4     | GTMX4*                | 5/16 | 4     | •             | •           |
| TMXK60**  | GTMX60                | 5/16 | 6     | •             | •           |
| TMXK80**  | GTMXK80               | 5/16 | 8     | •             | •           |
| TMXK110   | GTMXK110              | 5/16 | 11    | •             | •           |
| TMXK140   | GTMX140               | 5/16 | 14    |               |             |
| TMX240*   | —                     | 3/8  | 24    |               |             |
| TMX360    | —                     | 3/8  | 36    |               |             |

\*Not knurled  
\*\*ASME®/ANSI® B107.10

Set shown includes storage tray.  
†Industrial finish products not included in the set  
\*Includes foam organizer



106BTMX



TMXK80

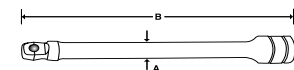
### Wobble Extensions, Chrome

- Provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

| Stock No. | A    | B     | Set Contains: |  |
|-----------|------|-------|---------------|--|
|           |      |       | 106ATMXW      |  |
| TMXW1*    | 5/16 | 1-1/4 | •             |  |
| TMXWK2    | 5/16 | 2     | •             |  |
| TMXWK4    | 5/16 | 4     | •             |  |
| TMXWK60   | 5/16 | 6     | •             |  |
| TMXWK80   | 5/16 | 8     | •             |  |
| TMXWK110  | 5/16 | 11    | •             |  |

\*Not knurled

Set shown includes storage tray.



106ATMXW



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

## EXTENSIONS



106ATMXWP

### Wobble Plus Extensions, Chrome

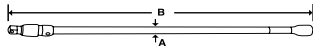
- Provides 16° of additional accessibility
- Useable in both wobble and rigid functionality

Set Contains:

| Stock No. | A    | B     | 106ATMXWP | 106ATMXWPF† |
|-----------|------|-------|-----------|-------------|
| TMXWP1*   | 5/16 | 1-1/4 | •         | •           |
| TMXWP2    | 5/16 | 2     | •         | •           |
| TMXWP4    | 5/16 | 4     | •         | •           |
| TMXWP6    | 5/16 | 6     | •         | •           |
| TMXWP8    | 5/16 | 8     | •         | •           |
| TMXWP11   | 5/16 | 11    | •         | •           |

\*Not knurled

Set shown includes storage tray.  
†Includes foam tray



103TMXKLA

### Locking Extensions, Chrome

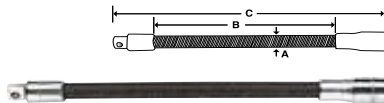
- Quick-release sleeve releases socket quickly and easily
- Knurling at the drive end provides for easy fingertip turning

Set Contains:

| Stock No. | A    | B  | 103TMXKLA |
|-----------|------|----|-----------|
| TMXKL2    | 5/16 | 2  |           |
| TMXKL3    | 5/16 | 3  |           |
| TMXKL60A  | 5/16 | 6  | •         |
| TMXKL110A | 5/16 | 11 | •         |
| TMXKL114A | 5/16 | 14 |           |
| TMXKL240A | 3/8  | 24 | •         |

TMXKLARK—Extension Repair Kit (for TMXKLP)  
TMXKLP—Locking Pin

Set shown includes storage tray.



TM61A

### Flexible Extension

| Stock No. | A    | B | C |
|-----------|------|---|---|
| TM61A     | 5/16 | 5 | 6 |

ASME®/ANSI® B107.10



TZ1

### Extension Connectors, Chrome

#### TZ1 1/4" Drive Extension Connector

- 1/4" drive extension connector adds versatility to extensions, breaker bars, ratchets and crowfoot wrenches
- Connect one or more tools for a variety of ways to reach limited-access fasteners
- For use in marine, heavy truck, plumbing and manufacturing applications

#### TZ2 2 pc 1/4" Drive Extension Connector Set

- Female and male 90° connectors add versatility to extensions, breaker bars, ratchets and crowfoots when accessing hard-to-reach fasteners

## SOCKET/RATCHET ACCESSORIES



TA3

1206GS

### Square Drive Adaptors, Industrial (3/8")

| Stock No. | Industrial Stock No. | A   | B   | C     | D     |
|-----------|----------------------|-----|-----|-------|-------|
| —         | GFAT1E               | 3/8 | 1/4 | 11/16 | 1-1/4 |
| TA3       | GTA3                 | 1/4 | 3/8 | 1/2   | 15/16 |

#### 1206GS 6 pc Combination Drive Square Drive Adaptor Set

- Includes 1/4" drive GFAT1E and TA3 adaptors, 3/8" drive A2A and GSAF1F adaptors and 1/2" drive GLA12B and GLAS1E adaptors (6 pc) in storage tray



103UFTS

### Universal Joints, Chrome

#### TMU8B 1/4" Drive 1-1/8" Friction Ball Universal Joint

- Universal joints help increase access to hard-to-reach fastener applications
- Pins in the universal joint are laser-welded and will not walk out over time

#### TMUL8 Locking Collar Universal Joint

- Locking pin to ensure better socket retention

| Stock No. | A   | B      |
|-----------|-----|--------|
| TMU8B     | 1/2 | 1-5/16 |
| TMUL8     | 1/2 | 2-1/4  |

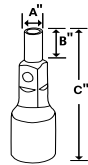
#### 103UFTS 3 pc Combination Drive Universal Joint Set

- Includes (1) 1/4" Drive Universal Joint, (1) 3/8" Drive Universal Joint and (1) 1/2" Drive Universal Joint in storage tray

# SOCKET/RATCHET ACCESSORIES



TMXM114

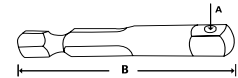


## Magnetic Adaptors

| Stock No. | A    | B     | C       |
|-----------|------|-------|---------|
| TMXM17    | 7/32 | 13/32 | 1-21/32 |
| TMXM114   | 7/32 | 9/32  | 1-17/32 |



GMB3041



## Hex-to-Square Adaptors

| Stock No. | A           | B |
|-----------|-------------|---|
| GMB3041   | Ball Detent | 1 |
| GMB3046   | Ball Detent | 6 |

Insert bit style, non-impact

## FLANK DRIVE® XTRA SOCKETS

### Shallow, mm, Chrome

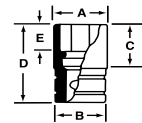


112YTMMY

Set Contains:

112YTMMY

114YTMMY



| mm  | 6       | A    | B    | C    | D    | E    | 6 | 6 |
|-----|---------|------|------|------|------|------|---|---|
| 4   | YTMM4   | 7.1  | 12.7 | 13.3 | 22.2 | 4.0  |   | • |
| 4.5 | YTMM4.5 | 7.9  | 12.7 | 13.3 | 22.2 | 4.0  |   | • |
| 5   | YTMM5   | 7.9  | 12.7 | 13.3 | 22.2 | 4.0  | • | • |
| 5.5 | YTMM5.5 | 8.7  | 12.7 | 13.3 | 22.2 | 4.0  | • | • |
| 6   | YTMM6   | 9.5  | 12.7 | 13.3 | 22.2 | 5.6  | • | • |
| 7   | YTMM7   | 11.1 | 12.7 | 13.3 | 22.2 | 5.6  | • | • |
| 8   | YTMM8   | 11.9 | 12.7 | 13.3 | 22.2 | 6.4  | • | • |
| 9   | YTMM9   | 12.7 | 12.7 | 13.3 | 22.2 | 7.1  | • | • |
| 10  | YTMM10  | 14.3 | 14.3 | 12.7 | 22.2 | 7.1  | • | • |
| 11  | YTMM11  | 15.9 | 15.9 | 12.5 | 22.2 | 8.7  | • | • |
| 12  | YTMM12  | 16.7 | 16.7 | 12.8 | 22.2 | 8.7  | • | • |
| 13  | YTMM13  | 18.3 | 18.3 | 12.3 | 22.2 | 8.7  | • | • |
| 14  | YTMM14  | 19.1 | 19.1 | 13.5 | 23.0 | 10.3 | • | • |
| 15  | YTMM15  | 20.6 | 20.6 | 13.2 | 23.0 | 8.7  | • | • |
| 16  | YTMM16  | 21.4 | 21.4 | 14.8 | 25.4 | 9.5  |   |   |



YTMM5



YTMM15

Sets shown include magnetic storage tray.

### Shallow, Inches, Chrome



110YTM

Set Contains:

110YTM

113YTM

| II    | 6     | A     | B     | C     | D     | E     | 6 | 6 |
|-------|-------|-------|-------|-------|-------|-------|---|---|
| 1/8   | YTM04 | 1/4   | 1/2   | 1/2   | 7/8   | 1/8   |   | • |
| 5/32  | YTM05 | 9/32  | 1/2   | 1/2   | 7/8   | 5/32  |   | • |
| 3/16  | YTM6  | 5/16  | 1/2   | 1/2   | 7/8   | 5/32  | • | • |
| 7/32  | YTM7  | 11/32 | 1/2   | 1/2   | 7/8   | 5/32  | • | • |
| 1/4   | YTM8  | 3/8   | 1/2   | 1/2   | 7/8   | 7/32  | • | • |
| 9/32  | YTM9  | 7/16  | 1/2   | 1/2   | 7/8   | 7/32  | • | • |
| 5/16  | YTM10 | 15/32 | 1/2   | 1/2   | 7/8   | 1/4   | • | • |
| 11/32 | YTM11 | 1/2   | 1/2   | 1/2   | 7/8   | 9/32  | • | • |
| 3/8   | YTM12 | 9/16  | 9/16  | 1/2   | 7/8   | 9/32  | • | • |
| 7/16  | YTM14 | 5/8   | 5/8   | 15/32 | 7/8   | 11/32 | • | • |
| 1/2   | YTM16 | 11/16 | 11/16 | 15/32 | 7/8   | 11/32 | • | • |
| 9/16  | YTM18 | 3/4   | 3/4   | 1/2   | 29/32 | 13/32 | • | • |
| 5/8   | YTM20 | 27/32 | 27/32 | 17/32 | 1     | 3/8   |   | • |



YTM04



YTM6



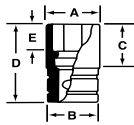
YTM14

Sets shown include magnetic storage tray.



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® XTRA SOCKETS



YTMS4



YTMS15

## Semi-Deep, mm, Chrome



112YTMMSY

Set Contains:

112YTMMSY

| mm  | 6       | A    | B    | C    | D    | E   | 6 |
|-----|---------|------|------|------|------|-----|---|
| 4   | YTMS4   | 7.1  | 12.7 | 22.9 | 31.8 | 4.0 |   |
| 4.5 | YTMS4.5 | 7.9  | 12.7 | 22.9 | 31.8 | 4.0 |   |
| 5   | YTMS5   | 7.9  | 12.7 | 22.9 | 31.8 | 4.8 | • |
| 5.5 | YTMS5.5 | 8.7  | 12.7 | 22.9 | 31.8 | 4.8 | • |
| 6   | YTMS6   | 9.5  | 12.7 | 22.9 | 31.8 | 5.6 | • |
| 7   | YTMS7   | 11.1 | 12.7 | 22.9 | 31.8 | 5.6 | • |
| 8   | YTMS8   | 11.9 | 12.7 | 22.9 | 31.8 | 6.4 | • |
| 9   | YTMS9   | 12.7 | 11.9 | 22.9 | 31.8 | 7.1 | • |
| 10  | YTMS10  | 14.3 | 13.5 | 18.5 | 31.8 | 7.1 | • |
| 11  | YTMS11  | 15.9 | 15.1 | 18.3 | 31.8 | 8.7 | • |
| 12  | YTMS12  | 16.7 | 15.9 | 18.1 | 31.8 | 8.7 | • |
| 13  | YTMS13  | 18.3 | 17.5 | 18.1 | 31.8 | 8.7 | • |
| 14  | YTMS14  | 19.1 | 18.3 | 17.9 | 31.8 | 9.5 | • |
| 15  | YTMS15  | 20.6 | 19.8 | 18.1 | 31.8 | 9.5 | • |

Sets shown include magnetic storage tray.



110YTMSY

Set Contains:

110YTMSY

## Semi-Deep, Inches, Chrome



YTMS10

| TI    | 6      | A     | B     | C     | D     | E     | 6 |
|-------|--------|-------|-------|-------|-------|-------|---|
| 1/8   | YTMS04 | 1/4   | 1/2   | 7/8   | 1-1/4 | 5/32  |   |
| 5/32  | YTMS05 | 9/32  | 1/2   | 7/8   | 1-1/4 | 5/32  |   |
| 3/16  | YTMS6  | 5/16  | 1/2   | 7/8   | 1-1/4 | 3/16  | • |
| 7/32  | YTMS7  | 11/32 | 1/2   | 7/8   | 1-1/4 | 3/16  | • |
| 1/4   | YTMS8  | 3/8   | 1/2   | 7/8   | 1-1/4 | 3/16  | • |
| 9/32  | YTMS9  | 7/16  | 1/2   | 7/8   | 1-1/4 | 7/32  | • |
| 5/16  | YTMS10 | 15/32 | 1/2   | 7/8   | 1-1/4 | 1/4   | • |
| 11/32 | YTMS11 | 1/2   | 15/32 | 7/8   | 1-1/4 | 9/32  | • |
| 3/8   | YTMS12 | 9/16  | 17/32 | 23/32 | 1-1/4 | 9/32  | • |
| 7/16  | YTMS14 | 5/8   | 19/32 | 23/32 | 1-1/4 | 11/32 | • |
| 1/2   | YTMS16 | 11/16 | 21/32 | 11/16 | 1-1/4 | 11/32 | • |
| 9/16  | YTMS18 | 3/4   | 23/32 | 11/16 | 1-1/4 | 3/8   | • |
| 5/8   | YTMS20 | 27/32 | 13/16 | 21/32 | 1-1/4 | 13/32 |   |

ASME® B107.1  
Conventional hex

Sets shown include magnetic storage tray.



112YSTMMY

Set Contains:

112YSTMMY  
114YSTMMY

## Deep, mm, Chrome



YSTMM15

| mm  | 6        | A    | B    | C    | D    | E    | 6 | 6 |
|-----|----------|------|------|------|------|------|---|---|
| 4   | YSTMM4   | 7.1  | 12.7 | 41.9 | 50.8 | 4.0  |   | • |
| 4.5 | YSTMM4.5 | 7.9  | 12.7 | 41.9 | 50.8 | 4.0  |   | • |
| 5   | YSTMM5   | 7.9  | 12.7 | 41.9 | 50.8 | 4.8  | • | • |
| 5.5 | YSTMM5.5 | 8.7  | 12.7 | 41.9 | 50.8 | 4.8  | • | • |
| 6   | YSTMM6   | 9.5  | 12.7 | 41.9 | 50.8 | 5.6  | • | • |
| 7   | YSTMM7   | 11.1 | 12.7 | 41.9 | 50.8 | 5.6  | • | • |
| 8   | YSTMM8   | 11.9 | 12.7 | 41.9 | 50.8 | 6.4  | • | • |
| 9   | YSTMM9   | 12.7 | 12.7 | 41.9 | 50.8 | 7.1  | • | • |
| 10  | YSTMM10  | 14.3 | 14.3 | 37.6 | 50.8 | 7.1  | • | • |
| 11  | YSTMM11  | 15.9 | 15.9 | 37.3 | 50.8 | 8.7  | • | • |
| 12  | YSTMM12  | 16.7 | 16.7 | 37.2 | 50.8 | 8.7  | • | • |
| 13  | YSTMM13  | 18.3 | 18.3 | 37.2 | 50.8 | 8.7  | • | • |
| 14  | YSTMM14  | 19.1 | 19.1 | 37.0 | 50.8 | 10.3 | • | • |
| 15  | YSTMM15  | 20.6 | 20.6 | 37.2 | 50.8 | 8.7  | • | • |

Sets shown include magnetic storage tray.

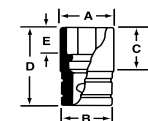


# FLANK DRIVE® XTRA SOCKETS

1/4" DRIVE TOOLS

## Deep, Inches, Chrome

| 11    | 6      | A     | B     | C       | D | E     | Set Contains: |          |
|-------|--------|-------|-------|---------|---|-------|---------------|----------|
|       |        |       |       |         |   |       | 110YSTMY      | 113YSTMY |
| 1/8   | YSTM04 | 1/4   | 1/2   | 1-5/8   | 2 | 5/32  | 6             | 6        |
| 5/32  | YSTM05 | 9/32  | 1/2   | 1-5/8   | 2 | 5/32  | 6             | 6        |
| 3/16  | YSTM6  | 5/16  | 1/2   | 1-5/8   | 2 | 3/16  | 6             | 6        |
| 7/32  | YSTM7  | 11/32 | 1/2   | 1-5/8   | 2 | 3/16  | 6             | 6        |
| 1/4   | YSTM8  | 3/8   | 1/2   | 1-5/8   | 2 | 7/32  | 6             | 6        |
| 9/32  | YSTM9  | 7/16  | 1/2   | 1-5/8   | 2 | 7/32  | 6             | 6        |
| 5/16  | YSTM10 | 15/32 | 1/2   | 1-5/8   | 2 | 1/4   | 6             | 6        |
| 11/32 | YSTM11 | 1/2   | 1/2   | 1-5/8   | 2 | 9/32  | 6             | 6        |
| 3/8"  | YSTM12 | 9/16  | 9/16  | 1-15/32 | 2 | 9/32  | 6             | 6        |
| 7/16  | YSTM14 | 5/8   | 5/8   | 1-15/32 | 2 | 11/32 | 6             | 6        |
| 1/2   | YSTM16 | 11/16 | 11/16 | 1-7/16  | 2 | 11/32 | 6             | 6        |
| 9/16  | YSTM18 | 3/4   | 3/4   | 1-7/16  | 2 | 13/32 | 6             | 6        |
| 5/8   | YSTM20 | 27/32 | 13/16 | 1-7/16  | 2 | 13/32 | 6             | 6        |



110YSTMY

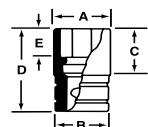


YSTM18

## FLANK DRIVE® SOCKETS

## Shallow, mm, Chrome

| mm  | 6       | 12       | A    | B    | C    | D    | E    | Set Contains: |          |
|-----|---------|----------|------|------|------|------|------|---------------|----------|
|     |         |          |      |      |      |      |      | 112TMMY       | 111TMMDY |
| 4   | TMM4*   | TMMD4    | 6.7  | 12.1 | 13.3 | 22.2 | 4.6  | 6             | 12       |
| 4.5 | TMM4.5* | TMMD4.5* | 7.2  | 12.1 | 13.3 | 22.2 | 4.3  | 6             | 12       |
| 5   | TMM5*   | TMMD5*   | 7.7  | 12.1 | 13.3 | 22.2 | 4.3  | 6             | 12       |
| 5.5 | TMM5.5  | TMMD5.5  | 8.3  | 12.1 | 13.3 | 22.2 | 4.6  | 6             | 12       |
| 6   | TMM6    | TMMD6    | 9.3  | 12.1 | 13.3 | 22.2 | 5.6  | 6             | 12       |
| 7   | TMM7    | TMMD7    | 10.5 | 12.1 | 13.3 | 22.2 | 6.1  | 6             | 12       |
| 8   | TMM8    | TMMD8    | 11.5 | 12.1 | 13.3 | 22.2 | 6.9  | 6             | 12       |
| 9   | TMM9    | TMMD9    | 12.7 | 12.1 | 13.3 | 22.2 | 7.4  | 6             | 12       |
| 10  | TMM10   | TMMD10   | 13.2 | 13.2 | 13.3 | 22.2 | 7.4  | 6             | 12       |
| 11  | TMM11   | TMMD11   | 15.2 | 14.6 | 13.3 | 22.2 | 9.4  | 6             | 12       |
| 12  | TMM12   | TMMD12   | 16.5 | 15.6 | 13.3 | 22.2 | 9.4  | 6             | 12       |
| 13  | TMM13   | TMMD13   | 17.6 | 16.7 | 13.3 | 22.2 | 9.4  | 6             | 12       |
| 14  | TMM14   | TMMD14   | 18.8 | 17.8 | 14.1 | 22.2 | 9.7  | 6             | 12       |
| 15  | TMM15   | TMMD15   | 20.4 | 19.4 | 14.1 | 23.0 | 9.1  | 6             | 12       |
| 16  | TMM16   | —        | 21.0 | 20.2 | 16.1 | 25.0 | 10.2 | 6             | 12       |



111TMMDY



TMM14

ASME® B107.5m  
\*Conventional hex

Sets shown include magnetic storage tray.

## Shallow, Inches, Chrome

| 11    | 6     | 12    | 6     | 12     | A     | B     | C     | D     | E     | Set Contains: |           |       |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|---------------|-----------|-------|
|       |       |       |       |        |       |       |       |       |       | 110TMY**      | 110TMDY** | 113TM |
| 1/8   | TM04  | TMD4  | —     | —      | 7/32  | 7/16  | 1/2   | 7/8   | 1/8   | 6             | 12        | 6     |
| 5/32  | TM05* | TMD5  | —     | —      | 9/32  | 15/32 | 1/2   | 7/8   | 5/32  | 6             | 12        | 6     |
| 3/16  | TM6*  | TMD6* | GTM6  | GTMD6  | 9/32  | 15/32 | 1/2   | 7/8   | 5/32  | 6             | 12        | 6     |
| 7/32  | TM7*  | TMD7* | GTM7  | GTMD7  | 11/32 | 15/32 | 1/2   | 7/8   | 3/16  | 6             | 12        | 6     |
| 1/4   | TM8   | TMD8  | GTM8  | GTMD8  | 3/8   | 15/32 | 1/2   | 7/8   | 7/32  | 6             | 12        | 6     |
| 9/32  | TM9   | TMD9  | GTM9  | GTMD9  | 13/32 | 15/32 | 1/2   | 7/8   | 1/4   | 6             | 12        | 6     |
| 5/16  | TM10  | TMD10 | GTM10 | GTMD10 | 15/32 | 15/32 | 1/2   | 7/8   | 9/32  | 6             | 12        | 6     |
| 11/32 | TM11  | TMD11 | GTM11 | GTMD11 | 1/2   | 15/32 | 5/16  | 7/8   | 9/32  | 6             | 12        | 6     |
| 3/8   | TM12  | TMD12 | GTM12 | GTMD12 | 17/32 | 1/2   | 1/2   | 7/8   | 9/32  | 6             | 12        | 6     |
| 7/16  | TM14  | TMD14 | GTM14 | GTMD14 | 19/32 | 9/16  | 1/2   | 7/8   | 3/8   | 6             | 12        | 6     |
| 1/2   | TM16  | TMD16 | GTM16 | GTMD16 | 11/16 | 21/32 | 1/2   | 7/8   | 3/8   | 6             | 12        | 6     |
| 9/16  | TM18  | TMD18 | —     | GTMD18 | 25/32 | 23/32 | 1/2   | 29/32 | 3/8   | 6             | 12        | 6     |
| 5/8   | TM20  | TMD20 | —     | —      | 27/32 | 25/32 | 19/32 | 31/32 | 13/32 | 6             | 12        | 6     |

ASME B107.1  
\*Conventional hex

\*\*Sets shown include magnetic storage tray.



TM16



GTMD18



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® SOCKETS



## Semi-Deep, mm, Chrome

112TMMDSY

Set Contains:

112TMMSY  
112TMMDSY



TMMDS14

| mm  | 6        | 12       | A    | B    | C    | D    | E   | 6 | 12 |
|-----|----------|----------|------|------|------|------|-----|---|----|
| 4   | TMMS4    | TMMDS4   | 7.1  | 12.7 | 23.0 | 31.8 | 4.0 |   |    |
| 4.5 | TMMS4.5  | TMMDS4.5 | 7.9  | 12.7 | 23.0 | 31.8 | 4.0 |   |    |
| 5   | TMMS5*   | TMMDS5*  | 7.7  | 12.1 | 22.9 | 31.8 | 5.1 | • | •  |
| 5.5 | TMMS5.5* | TMMDS5.5 | 8.3  | 12.1 | 22.9 | 31.8 | 5.3 | • | •  |
| 6   | TMMS6    | TMMDS6   | 9.3  | 12.1 | 22.9 | 31.8 | 5.8 | • | •  |
| 7   | TMMS7    | TMMDS7   | 10.5 | 12.1 | 22.9 | 31.8 | 6.1 | • | •  |
| 8   | TMMS8    | TMMDS8   | 11.5 | 12.1 | 18.4 | 31.8 | 6.9 | • | •  |
| 9   | TMMS9    | TMMDS9   | 12.7 | 12.1 | 18.4 | 31.8 | 7.4 | • | •  |
| 10  | TMMS10   | TMMDS10  | 14.0 | 13.2 | 18.4 | 31.8 | 7.4 | • | •  |
| 11  | TMMS11   | TMMDS11  | 15.4 | 14.6 | 18.4 | 31.8 | 9.4 | • | •  |
| 12  | TMMS12   | TMMDS12  | 16.5 | 15.6 | 18.4 | 31.8 | 9.4 | • | •  |
| 13  | TMMS13   | TMMDS13  | 17.6 | 16.7 | 18.4 | 31.8 | 9.4 | • | •  |
| 14  | TMMS14   | TMMDS14  | 18.8 | 17.8 | 18.4 | 31.8 | 9.7 | • | •  |
| 15  | TMMS15   | TMMDS15  | 20.4 | 19.4 | 18.4 | 31.8 | 9.7 | • | •  |

\*Conventional hex

Sets shown include magnetic storage tray.



## Semi-Deep, Inches, Chrome

110TMSDY

Set Contains:

110TMSY  
110TMSDY



TMS14

| in    | 6     | 12     | A     | B     | C     | D     | E    | 6 | 12 |
|-------|-------|--------|-------|-------|-------|-------|------|---|----|
| 1/8   | TMS04 | TMDS04 | 15/32 | 15/32 | 23/32 | 1-1/4 | 9/32 |   |    |
| 5/32  | TMS05 | TMDS05 | 15/32 | 15/32 | 23/32 | 1-1/4 | 9/32 |   |    |
| 3/16  | TMS6* | TMDS6* | 5/16  | 15/32 | 29/32 | 1-1/4 | 7/32 | • | •  |
| 7/32  | TMS7* | TMDS7* | 11/32 | 15/32 | 29/32 | 1-1/4 | 7/32 | • | •  |
| 1/4   | TMS8  | TMDS8  | 3/8   | 15/32 | 29/32 | 1-1/4 | 1/4  | • | •  |
| 9/32  | TMS9  | TMDS9  | 13/32 | 15/32 | 23/32 | 1-1/4 | 1/4  | • | •  |
| 5/16  | TMS10 | TMDS10 | 15/32 | 15/32 | 23/32 | 1-1/4 | 9/32 | • | •  |
| 11/32 | TMS11 | TMDS11 | 1/2   | 15/32 | 23/32 | 1-1/4 | 5/16 | • | •  |
| 3/8   | TMS12 | TMDS12 | 9/16  | 1/2   | 23/32 | 1-1/4 | 5/16 | • | •  |
| 7/16  | TMS14 | TMDS14 | 5/8   | 19/32 | 23/32 | 1-1/4 | 3/8  | • | •  |
| 1/2   | TMS16 | TMDS16 | 11/16 | 21/32 | 23/32 | 1-1/4 | 3/8  | • | •  |
| 9/16  | TMS18 | TMDS18 | 3/4   | 23/32 | 23/32 | 1-1/4 | 3/8  | • | •  |
| 5/8   | TMS20 | TMDS20 | 15/32 | 15/32 | 23/32 | 1-1/4 | 9/32 |   |    |

ASME® B107.1

\*Conventional hex

Sets shown include magnetic storage tray.

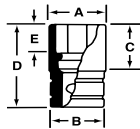


## Deep, mm, Chrome

112STMMY

Set Contains:

112STMMY  
112STMMY



STMMD14

| mm  | 6        | 12       | A    | B    | C    | D    | E   | 12 | 6 |
|-----|----------|----------|------|------|------|------|-----|----|---|
| 4   | STMM4*   | STMMD4   | 6.7  | 12.1 | 42.2 | 50.8 | 4.6 |    |   |
| 4.5 | STMM4.5* | STMMD4.5 | 7.2  | 12.1 | 42.2 | 50.8 | 4.6 |    |   |
| 5   | STMM5*   | STMMD5*  | 7.7  | 12.1 | 42.2 | 50.8 | 5.1 | •  | • |
| 5.5 | STMM5.5  | STMMD5.5 | 8.3  | 12.1 | 42.2 | 50.8 | 5.3 | •  | • |
| 6   | STMM6    | STMMD6   | 9.3  | 12.1 | 42.2 | 50.8 | 5.8 | •  | • |
| 7   | STMM7    | STMMD7   | 10.5 | 12.1 | 42.2 | 50.8 | 6.1 | •  | • |
| 8   | STMM8    | STMMD8   | 11.5 | 12.1 | 42.2 | 50.8 | 6.9 | •  | • |
| 9   | STMM9    | STMMD9   | 12.7 | 12.1 | 38.1 | 50.8 | 7.4 | •  | • |
| 10  | STMM10   | STMMD10  | 14.0 | 13.2 | 38.1 | 50.8 | 7.4 | •  | • |
| 11  | STMM11   | STMMD11  | 15.2 | 14.6 | 38.1 | 50.8 | 9.4 | •  | • |
| 12  | STMM12   | STMMD12  | 16.5 | 15.6 | 38.1 | 50.8 | 9.4 | •  | • |
| 13  | STMM13   | STMMD13  | 17.6 | 16.7 | 38.1 | 50.8 | 9.4 | •  | • |
| 14  | STMM14   | STMMD14  | 18.8 | 17.8 | 38.1 | 50.8 | 9.7 | •  | • |
| 15  | STMM15   | STMMD15  | 20.4 | 19.4 | 38.1 | 50.8 | 9.1 | •  | • |

\*Conventional hex

Sets shown include magnetic storage tray.

## Deep, Inches, Chrome



110STMY

Set Contains:

110STMY  
110STMDY

|       |        |        |        |           | A     | B     | C       | D | E     |   |   |
|-------|--------|--------|--------|-----------|-------|-------|---------|---|-------|---|---|
| 1/8   | STM04* | STMD04 | —      | —         | 7/32  | 7/16  | 1-21/32 | 2 | 1/8   |   |   |
| 5/32  | STM05* | STMD05 | —      | —         | 1/4   | 15/32 | 1-21/32 | 2 | 3/16  |   |   |
| 3/16  | STM6*  | STMD6* | GSTM6  | GSTMD6*   | 5/16  | 15/32 | 1-21/32 | 2 | 3/16  | • | • |
| 7/32  | STM7*  | STMD7* | GSTM7  | GSTMD7*   | 11/32 | 15/32 | 1-21/32 | 2 | 7/32  | • | • |
| 1/4   | STM8   | STMD8  | GSTM8  | GSTMD8    | 3/8   | 15/32 | 1-21/32 | 2 | 7/32  | • | • |
| 9/32  | STM9   | STMD9  | GSTM9  | GSTMD9**  | 13/32 | 15/32 | 1-21/32 | 2 | 1/4   | • | • |
| 5/16  | STM10  | STMD10 | GSTM10 | GSTMD10** | 15/32 | 15/32 | 1-21/32 | 2 | 7/32  | • | • |
| 11/32 | STM11  | STMD11 | GSTM11 | GSTMD11   | 1/2   | 15/32 | 1-21/32 | 2 | 9/32  | • | • |
| 3/8   | STM12  | STMD12 | GSTM12 | GSTMD12   | 17/32 | 9/16  | 1-21/32 | 2 | 9/32  | • | • |
| 7/16  | STM14  | STMD14 | GSTM14 | GSTMD14   | 5/8   | 9/16  | 1-21/32 | 2 | 3/8   | • | • |
| 1/2   | STM16  | STMD16 | GSTM16 | GSTMD16   | 11/16 | 21/32 | 1-21/32 | 2 | 3/8   | • | • |
| 9/16  | STM18  | STMD18 | —      | GSTMD18   | 3/4   | 23/32 | 1-21/32 | 2 | 3/8   | • | • |
| 5/8   | STM20A | STMD20 | —      | —         | 27/32 | 13/16 | 1-7/16  | 2 | 13/32 |   |   |

\*Conventional hex

\*\*Larger bolt clearance diameter for servicing aerospace fastener

Sets shown include magnetic storage tray.



STMD16



GSTMD16

## Long, mm, Chrome

|    |         | A    | B    | C    | D     | E   |   |
|----|---------|------|------|------|-------|-----|---|
| 10 | STMML10 | 14   | 13.2 | 33.0 | 101.6 | 7.4 | • |
| 11 | STMML11 | 15.2 | 14.6 | 30.6 | 101.6 | 9.4 | • |

Set Contains:

102STMML



102STMML

### Application:

For bumper cover bolts found on most European, Asian and US vehicles.

## Shallow/Deep Sets, Inches, Chrome (1/4")

### 120STTM 20 pc 1/4" Drive 6-Point SAE Flank Drive® Shallow/Deep Socket Set

- Includes TM6–TM18 shallow sockets and STM6–STM18 deep sockets
- Includes (20 pc) 3/16–9/16"
- Includes magnetic storage tray

## Shallow/Deep Sets, mm, Chrome (1/4")

### 124STTMM 24 pc 1/4" Drive 6-Point Metric Flank Drive® Shallow/Deep Socket Set

- Includes (24) shallow/deep sockets (5–15 mm)
- Includes magnetic storage tray



120STTM



124STTMM

# FLANK DRIVE® LOW-PROFILE SOCKETS



110RTSMA

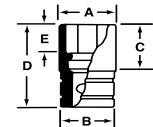
110RTSMA

112RTSMA

112RTMA

## Low-Profile Socket Sets, mm

|     |         |        | A   | B    | C   | D    | E   |   |   |   |   |
|-----|---------|--------|---|------|-----|------|-----|---|---|---|---|
| 5   | RTSM5   | RTM5   | 7.7   | 12.1 | 7.7 | 17.7 | 2.2 | • | • | • |   |
| 5.5 | RTSM5.5 | RTM5.5 | 8.3   | 12.1 | 7.7 | 17.7 | 2.6 | • | • | • |   |
| 6   | RTSM6   | RTM6   | 9.3   | 12.1 | 7.7 | 17.7 | 2.7 | • | • | • |   |
| 7   | RTSM7   | RTM7   | 10.5  | 12.1 | 7.7 | 17.7 | 2.8 | • | • | • |   |
| 8   | RTSM8   | RTM8   | 11.5  | 12.1 | 7.7 | 17.7 | 3.6 | • | • | • |   |
| 9   | RTSM9   | RTM9   | 12.7  | 12.1 | 7.7 | 17.7 | 3.9 | • | • | • |   |
| 10  | RTSM10  | RTM10  | 14.0  | 12.1 | 9.4 | 19.0 | 4.7 | • | • | • |   |
| 11  | RTSM11  | RTM11  | 15.4  | 12.1 | 6.2 | 17.3 | 4.5 | • | • | • |   |
| 12  | RTSM12  | RTM12  | 16.5  | 12.1 | 6.1 | 17.8 | 4.9 | • | • | • |   |
| 13  | RTSM13  | RTM13  | 17.6  | 12.1 | 5.9 | 18.1 | 5.1 | • | • | • |   |
| 14  | RTSM14  | —      | 18.7  | 12.1 | 6.4 | 19.3 | 5.8 |   |   |   |   |
| 15  | RTSM15  | —      | 20.3  | 12.1 | 6.3 | 20.3 | 6.4 |   |   |   |   |
|     | RAT72A  | —      | 11 mm Internal Hex Low-Profile                |      |     |      |     |   |   | • | • |
|     | RTMBS8  | —      | Magnetic Bit Holder for the Low Profile RAT72 |      |     |      |     |   |   | • | • |



RTM9



RTSM14



RTSM15

Sets shown include storage tray.

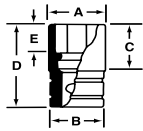


**WARNING**



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® LOW-PROFILE SOCKETS



RT101

## Low-Profile Socket Sets, Inches



|       |        | 110RT  |       |       |       |      | 110RT | 112RTA |   |
|-------|--------|--|-------|-------|-------|------|-------|--------|---|
| 11    | 12     | A  | B     | C     | D     | E    | 12    | 12     |   |
| 3/16  | RT61   | 5/16   | 15/32 | 11/32 | 25/32 | 3/32 | •     | •      |   |
| 7/32  | RT71   | 11/32  | 15/32 | 3/8   | 13/16 | 3/32 | •     | •      |   |
| 1/4   | RT81   | 3/8  | 15/32 | 5/16  | 3/4   | 1/8  | •     | •      |   |
| 9/32  | RT91   | 13/32  | 15/32 | 5/16  | 3/4   | 1/8  | •     | •      |   |
| 5/16  | RT101  | 15/32  | 15/32 | 5/16  | 3/4   | 5/32 | •     | •      |   |
| 11/32 | RT111  | 1/2  | 15/32 | 13/32 | 9/32  | 3/16 | •     | •      |   |
| 3/8   | RT121  | 17/32  | 15/32 | 9/32  | 11/16 | 3/16 | •     | •      |   |
| 7/16  | RT141  | 19/32  | 15/32 | 1/4   | 11/16 | 3/16 | •     | •      |   |
| 1/2   | RT161  | 11/16  | 15/32 | 7/32  | 23/32 | 7/32 | •     | •      |   |
| 9/16  | RT181  | 3/4  | 15/32 | 1/4   | 3/4   | 1/4  | •     | •      |   |
|       | RAT72A | 11 mm Internal Hex Low-Profile                 |       |       |       |      |       |        | • |
|       | RTMBS8 | Magnetic Bit Holder for the Low Profile RAT72A |       |       |       |      |       |        | • |

Sets shown include storage tray.

## Low-Profile Socket Sets, mm

- Special low-profile ratchet square drive design works with low-profile sockets to access tight clearance areas with no loss of strength
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes easy to wipe clean
- Sockets can be used with 1/4" extensions or any 1/4" ratchet



RAT72A

## RAT72A 1/4" Drive Dual 80® Technology 11 mm Internal Hex Low-Profile Ratchet

- Special low-profile square drive design works with low-profile sockets to access restricted clearance areas with no loss of strength
- Thin handle cross section allows for increased accessibility in tight quarters
- Dual 80® Technology requires less arc to engage the next gear tooth to provide extra access in confined areas
- Six teeth in contact with gear to provide strength and durability



SDMS17

## Stubby Bits and Bit Holder for Low-Profile Ratchets



RTMBS8

## Stubby Bits and Bit Holder for Low-Profile Ratchets

### RTMBS8 Low-Profile Magnetic 1/4" Shank Bit Holder

- Magnetic Bit Holder for the Low-Profile RAT72A Ratcheting Wrench
- Special alloy steel provides the highest match of strength and durability
- Nickel-chrome plating provides corrosion resistance
- Holds any 1/4" shank bit: SAE and metric hex bits, TORX®, and ball TORX®, PHILLIPS® and straight bits
- Fits in any 11 mm ratcheting wrench
- Perfect for tight and compact applications found on automotive, motorcycle, ATV and aviation. Examples of some automotive applications: heater boxes and motor actuators in dash of vehicle, A/C work and on top of dashboard where the windshield meets the dash

| Description | Stock No. | Size  | Set Contains: |
|-------------|-----------|-------|---------------|
| Flat Tip    | SDMS213   | 1/4"  | •             |
| PHILLIPS®   | SDMS222IR | #2    | •             |
| Metric Hex  | SDMSM3    | 3 mm  | •             |
|             | SDMSM4    | 4 mm  | •             |
|             | SDMSM5    | 5 mm  | •             |
|             | SDMSM6    | 6 mm  | •             |
|             | SDMSM8    | 8 mm  | •             |
| Inch Hex    | SDMS8     | 1/8"  | •             |
|             | SDMS9     | 9/64  | •             |
|             | SDMS10    | 5/32" | •             |
|             | SDMS12    | 3/16" | •             |
|             | SDMS16    | 1/4"  | •             |
| TORX®       | SDMST15   | T15   | •             |
|             | SDMST20   | T20   | •             |
|             | SDMST25   | T25   | •             |
|             | SDMST27   | T27   | •             |
|             | SDMST30   | T30   | •             |

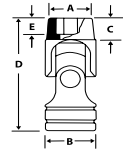
Set includes storage tray.

# FLANK DRIVE® UNIVERSAL SOCKETS

1/4" DRIVE TOOLS



111TMUSMA



## Shallow Universal, mm, Chrome

| mm  | Set Contains: |         | A    | B    | D    | E   | 111TMUSMA |   |
|-----|---------------|---------|------|------|------|-----|-----------|---|
|     | 6             | 12      |      |      |      |     | 6         | 6 |
| 5   | TMUSM5A*      | TMUM5A* | 8.3  | 12.7 | 28.6 | 3.2 |           |   |
| 5.5 | TMUSM5.5A     | —       | 8.5  | 12.7 | 29.2 | 3.6 | •         |   |
| 6   | TMUSM6A       | TMUM6A  | 9.6  | 12.7 | 29.7 | 3.8 | •         |   |
| 7   | TMUSM7A       | TMUM7A  | 10.7 | 12.7 | 30.5 | 4.3 | •         |   |
| 8   | TMUSM8A       | TMUM8A  | 11.8 | 12.7 | 30.5 | 4.8 | •         | • |
| 9   | TMUSM9A       | TMUM9A  | 12.7 | 12.7 | 31.2 | 4.8 | •         |   |
| 10  | TMUSM10A      | TMUM10A | 14.0 | 12.7 | 32.5 | 5.8 | •         | • |
| 11  | TMUSM11A      | —       | 15.4 | 12.7 | 33.0 | 6.6 | •         |   |
| 12  | TMUSM12A      | TMUM12A | 16.5 | 12.7 | 34.5 | 6.9 | •         | • |
| 13  | TMUSM13A      | TMUM13A | 17.3 | 12.7 | 36.8 | 7.6 | •         | • |
| 14  | TMUSM14A      | —       | 19.1 | 12.7 | 38.9 | 8.3 | •         | • |
| 15  | TMUSM15A      | —       | 20.6 | 12.7 | 41.3 | 8.7 | •         | • |

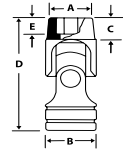


TMUM8A

Sets shown include storage tray.



106TMUSA



## Shallow Universal, Inches, Chrome

| Inches | Set Contains: |         | A        | B     | C     | D     | E       | 106TMUSA |    |
|--------|---------------|---------|----------|-------|-------|-------|---------|----------|----|
|        | 6             | 12      |          |       |       |       |         | 6        | 12 |
| 3/16   | —             | TMU61A* | 5/16     | 1/2   | 25/64 | 1-1/4 | 15/64   |          |    |
| 7/32   | —             | TMU71A* | GTMU71A  | 11/32 | 1/2   | 25/64 | 1-1/4   | 15/64    |    |
| 1/4    | TMUS81A       | TMU81B  | —        | 25/64 | 1/2   | 25/64 | 1-1/4   | 7/32     | •  |
| 9/32   | —             | TMU91A  | —        | 27/64 | 1/2   | 33/64 | 1 9/32  | 17/64    |    |
| 5/16   | TMUS101A      | TMU101A | —        | 15/32 | 1/2   | 35/64 | 1-5/16  | 17/64    | •  |
| 11/32  | —             | TMU111A | —        | 1/2   | 1/2   | 9/16  | 1-11/32 | 17/64    |    |
| 3/8    | TMUS121A      | TMU121A | —        | 9/16  | 1/2   | 39/64 | 1-3/8   | 17/64    | •  |
| 7/16   | TMUS141A      | TMU141A | GTMU141A | 39/64 | 1/2   | 41/64 | 1-7/16  | 21/64    | •  |
| 1/2    | TMUS161A      | TMU161A | —        | 5/16  | 1/2   | 25/64 | 1-1/4   | 15/64    | •  |
| 9/16   | TMUS181A      | TMU181A | —        | 3/4   | 1/2   | 3/4   | 1-17/32 | 7/32     | •  |



TMUS161A



GTMU141A

\*Conventional hex

Sets shown include storage tray.

## Deep Universal, mm, Chrome

| mm | A    | B    | D    | E   |
|----|------|------|------|-----|
| 10 | 14.3 | 12.7 | 40.5 | 5.6 |



STMUM10A

## Deep Universal, Inches, Industrial

| Inches | A   | B   | D       | E     |
|--------|-----|-----|---------|-------|
| 5/16   | 1/2 | 1/2 | 1-25/32 | 17/64 |



GSTMU101A



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## TORX® SOCKETS



213AFLEY

### Shallow TORX®, Chrome

Set Contains:

| #   | Stock No. | A     | B     | C     |   |   |
|-----|-----------|-------|-------|-------|---|---|
| E4  | TLE40A    | 7/16  | 7/8   | 17/64 | • | • |
| E5  | TLE50A    | 7/16  | 7/8   | 19/64 | • | • |
| E6  | TLE60A    | 7/16  | 7/8   | 21/64 | • | • |
| E7  | TLE70A    | 7/16  | 7/8   | 23/64 | • | • |
| E8  | TLE80A    | 7/16  | 7/8   | 27/64 | • | • |
| E10 | TLE100A   | 1/2   | 7/8   | 7/16  |   | • |
| E12 | TLE120A   | 35/64 | 35/64 | 7/8   |   |   |

Sets shown include magnetic storage tray.

### 210AFLEY 10 pc Combination Drive TORX®

#### Shallow Socket Set

- Includes (10) sockets—1/4" drive (E4–E8) and 3/8" drive (E10–E18)

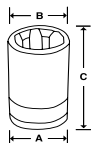
#### 213AFLEY 13 pc Combination Drive TORX®

#### Shallow Socket Set

- Includes (13) sockets— 1/4" drive (E4–E10), 3/8" drive (E11–E14), and 1/2" drive (E16–E24)



STLE70



### Deep TORX®, Chrome

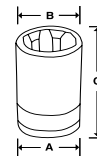
| #  | Stock No. | A     | B     | C |
|----|-----------|-------|-------|---|
| E4 | STLE40    | 15/32 | 9/32  | 2 |
| E5 | STLE50    | 15/32 | 5/16  | 2 |
| E7 | STLE70    | 31/64 | 3/8   | 2 |
| E8 | STLE80    | 15/16 | 13/32 | 2 |

### STLE70 1/4" Drive TORX® E7 Deep Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- For removing and installing vacuum pumps on BMW® N63 V8 engines without removing the catalytic converter, saving technician an average of two hours



106RTLE



### Low-Profile Inverted TORX®, Chrome

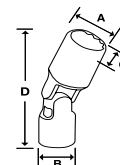
Set Contains:

| #   | Stock No. | A    | B    | C    |   |
|-----|-----------|------|------|------|---|
| E4  | RTLE40    | 12.1 | 6.7  | 16.5 | • |
| E5  | RTLE50    | 12.1 | 7.7  | 16.5 | • |
| E6  | RTLE60    | 12.1 | 8.4  | 16.5 | • |
| E7  | RTLE70    | 12.1 | 9.3  | 16.5 | • |
| E8  | RTLE80    | 12.1 | 10.5 | 16.6 | • |
| E10 | RTLE100   | 12.1 | 12.1 | 17.4 | • |

Set shown includes storage tray.



TSE120



### Universal TORX®, Chrome

| #   | Stock No. | A     | B   | D       |
|-----|-----------|-------|-----|---------|
| E8  | TSE80     | 27/64 | 1/2 | 1-9/32  |
| E10 | TSE100    | 1/2   | 1/2 | 1-11/32 |
| E12 | TSE120    | 9/16  | 1/2 | 1-3/8   |

### TSE80 1/4" Drive TORX® E8 Universal Socket

- Applications include Mercedes-Benz® turbo chargers, crankshaft position sensor, sensors and intake bolts, bell housing bolts and ignitions switch
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability

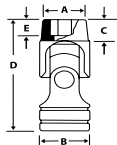
### TSE100 1/4" Drive TORX® E10 Universal Socket

- Applications include Mercedes-Benz® oil pan bolts, interior and engine fasteners, water pumps, power steering pumps and engine covers on newer models
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability

## FLANK DRIVE® HIGH-PERFORMANCE SOCKETS



TDHU81B



### Universal, Inches, Chrome (1/4")

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6 and 12 point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.

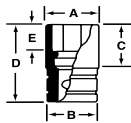
| #    | 12       | A     | B   | D       | E    |
|------|----------|-------|-----|---------|------|
| 1/4  | TDHU101B | 15/32 | 1/2 | 1-11/32 | 1/4  |
| 5/16 | TDHU121B | 17/32 | 1/2 | 1-7/16  | 5/16 |
| 3/8  | TDHU81B  | 13/32 | 1/2 | 1-7/32  | 1/4  |

## SPLINE SOCKETS

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.



TES10B



### Shallow, Inches, Chrome (1/4")

|     |        | A     | B     | C     | D      | E     |
|-----|--------|-------|-------|-------|--------|-------|
| #7  | TES7B  | 11/32 | 7/16  | 15/32 | 15/16  | 7/32  |
| #8  | TES8B  | 3/8   | 7/16  | 15/32 | 15/16  | 9/32  |
| #9  | TES9B  | 7/16  | 7/16  | —     | 15/16  | —     |
| #10 | TES10B | 15/32 | 15/32 | —     | 15/16  | 11/32 |
| #12 | TES12B | 35/64 | 35/64 | 19/32 | 59/64  | 23/64 |
| #14 | TES14B | 5/8   | 39/64 | 23/32 | 1-3/64 | 7/16  |



TESU10B



TESU8B

### Shallow Universal, Inches, Chrome (1/4")

|      |         | A     | B   | C     | D       | E    |
|------|---------|-------|-----|-------|---------|------|
| 1/4  | TESU8B  | 3/8   | 1/2 | 13/32 | 1-7/32  | 7/32 |
| 5/16 | TESU10B | 15/32 | 1/2 | 1/2   | 1-11/32 | 9/32 |



209TFES

### Shallow, Inches, Chrome (3/8")

#### 209TFES 9 pc Combination Drive

#### SAE Shallow Spline Socket Set

- Includes 1/4" drive TES7B–TES10B and 3/8" drive FES120B–FES200B Shallow Spline Sockets (9 pc) (#7–20, 7/32–5/8") in magnetic socket tray

### Torque Adaptors, mm (1/4" Drive)



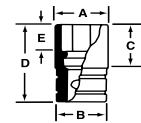
TRDHM6

|   |        | A   | B    | C   | D   | E    |
|---|--------|-----|------|-----|-----|------|
| 6 | TRDHM6 | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |
| 7 | TRDHM7 | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |
| 8 | TRDHM8 | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |

Chrome tools comply with AS954, Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary six- and 12-point fasteners with an advantage similar to the Snap-on Flank Drive® wrenching system.



TEL10B



### Deep, Inches, Chrome (1/4")

|     |        | A     | B     | C       | D | E     |
|-----|--------|-------|-------|---------|---|-------|
| #7  | TEL7B  | 11/32 | 7/16  | 1-17/32 | 2 | 7/32  |
| #8  | TEL8B  | 3/8   | 7/16  | 1-17/32 | 2 | 9/32  |
| #10 | TEL10B | 15/32 | 15/32 | 1-17/32 | 2 | 11/32 |



207TFEL

### Deep, Inches, Chrome (3/8")

#### 207TFEL 7 pc Combination Drive

#### SAE Deep Spline Socket Set

- Includes 1/4" drive TEL7B–TEL10B and 3/8" drive FEL120B–FEL200B Deep Spline Sockets (7 pc) (#7–20, 7/32–5/8") in magnetic socket tray



TELM7B

### Deep, Metric, Chrome (1/4")

|     |         | A    | B    | C    | D    | E   |
|-----|---------|------|------|------|------|-----|
| #7  | TELM7B  | 10.4 | 10.9 | 36.3 | 50.8 | 7.3 |
| #8  | TELM8B  | 11.7 | 11.7 | 36.3 | 50.8 | 8.8 |
| #10 | TELM10B | 11.7 | 11.7 | 36.3 | 50.8 | 8.8 |



TTA35

### Torque Adaptor

#### TTA35 1/4" Drive Female/Male Torque Adaptor

- Manufactured from special steel with higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability
- 3.5" long, center to center

## SPECIAL APPLICATION SOCKETS

### Swivel Ball Extension Sockets, mm, Industrial

#### PTSXM607 1/4" Drive 6-Point Metric 7 mm Swivel Ball Extension Power Socket

- Designed to be used on Ford® coilover plug retaining screws on V6, V8 and V10 Triton® engines
- Great for difficult-to-access-areas, where the use of one tool works better than three (socket, swivel, and extension)
- 30° uninterrupted swivel action means greater accessibility in tight quarters, allowing easier, faster removal of stubborn fasteners and time savings

- Laser welded pivot pin allows smooth, full 30° swivel action for efficient power transfer at any angle with no loss in torque output, prolonging the life of the socket
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Industrial finish helps protect against corrosion



PTSXM607



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## SPECIAL APPLICATION SOCKETS



### Flip Sockets

#### 106FLIPSET 6 pc 1/4" Drive 12-Point Metric Semi-Deep Flip Socket Set

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12 pt) allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Set includes 8/10, 9/11, 12/14 and 13/15 mm flip sockets, 2 and 6" long Hex-to-Square Adaptors
- Great starter set for cordless screwdrivers
- BMW® vehicles use 30 fasteners that are a combination of 8 mm and 10 mm that hold the underbelly pans on various vehicles, providing the convenience of one tool to work on both sizes
- Lexus® vehicles use 10 mm fasteners
- Infiniti® and Mercedes® vehicles use 8 mm fasteners
- Splash shields on Chevrolet® Cruze® vehicles and Buick® Verano® vehicles use 8 mm fasteners
- S6911 9 mm/11 mm Flip Socket: use on 9 and 11 mm fasteners found in applications for European vehicles
- S61214 12 mm/14 mm Flip Socket: use on 12 and 14 mm fasteners found in numerous applications on Asian vehicles
- S61315 13 mm/15 mm Flip Socket: use on 13 and 15 mm fasteners found in numerous applications on US vehicles

#### S61214 1/4" Drive 12-Point Metric 12 and 14 mm Semi-Deep Flip Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Use on 12 and 14 mm fasteners found in numerous applications on Asian vehicles

#### S61315 1/4" Drive 12-Point Metric 13 and 15 mm Semi-Deep Flip Socket

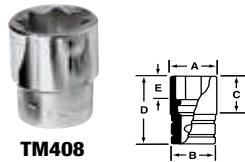
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Use on 13 and 15 mm fasteners found in numerous applications on US vehicles

#### S6810 1/4" Drive 12-Point Metric 8 and 10 mm Semi-Deep Flip Socket

- Double hex (12-point) allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- For removing and installing underbelly pans on various vehicles
- BMW® vehicles use 30 fasteners that are a combination of 8 and 10 mm that hold the underbelly pans on various vehicles, providing the convenience of one tool to work on both sizes
- Lexus® vehicles use 10 mm fasteners
- Infiniti® and Mercedes-Benz® vehicles use 8 mm fasteners
- Splash shields on Chevrolet® Cruze® vehicles and Buick® Verano® vehicles use 8 mm fasteners
- Manufactured from special alloy steel and heat treated for optimum strength
- 1.44" long

#### S6911 1/4" Drive 12-Point Metric 9 and 11 mm Semi-Deep Flip Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Use on 9 and 11 mm fasteners found in numerous applications on European vehicles



### Double Square, Chrome

| Stock No.          | A     | B     | C     | D   | E    |
|--------------------|-------|-------|-------|-----|------|
| 1/4" <b>TM408</b>  | 15/32 | 15/32 | 17/32 | 7/8 | 1/4  |
| 5/16" <b>TM410</b> | 9/16  | 17/32 | 17/32 | 7/8 | 9/32 |
| 3/8" <b>TM412</b>  | 21/32 | 5/8   | 17/32 | 7/8 | 5/16 |



### Pipe Plug, mm

#### 1/4" Drive Metric 3 mm Pipe Plug Socket

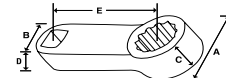
- Used to adjust the intake and exhaust valve rocker arms on Mercury Marine® four-stroke outboard motors
- Motor sizes: 10, 15, 20, 25 and 30 HP
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean



## Torque Adaptors, mm

### 1/4" Drive 12-Point Metric 6 mm Torque Adaptor

- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1" center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks



| mm | 12     | A   | B    | C   | D   | E    |
|----|--------|-----|------|-----|-----|------|
| 6  | TRDHM6 | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |
| 7  | TRDHM7 | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |
| 8  | TRDHM8 | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |



TRDHM7

## Torque Adaptors, SAE (1/4" Drive)

| Stock No. | Description  | A                | B                | C               | D               | E           |
|-----------|--|------------------|------------------|-----------------|-----------------|-------------|
| TRDHL101  | 1/4" Drive 5/16" SAE Torque Adaptor                | 1/2<br>(12.7)    | 15/32<br>(11.91) | 17/64<br>(6.75) | 17/64<br>(6.75) | 2<br>(50.8) |
| TRDHL121  | 1/4" Drive 3/8" SAE Torque Adaptor                 | 37/64<br>(14.68) | 15/32<br>(11.91) | 17/64<br>(6.75) | 17/64<br>(6.75) | 2<br>(50.8) |
| TRDHL141  | 1/4" Drive 7/16" SAE Torque Adaptor                | 43/64<br>(17.1)  | 15/32<br>(11.91) | 17/64<br>(6.75) | 17/64<br>(6.75) | 2<br>(50.8) |
| TRDHL81   | 1/4" Drive 1/4" SAE Torque Adaptor                 | 13/32<br>(10.32) | 15/32<br>(11.91) | 17/64<br>(6.75) | 17/64<br>(6.75) | 2<br>(50.8) |
| TRDHL101  | 1/4" Drive 5/16" SAE DH Low-Profile Torque Adaptor | —                | —                | —               | —               | —           |



TRDHL101

## TORX® BIT SOCKETS



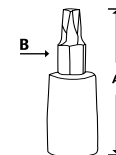
GTTX15E



106TTX



212EFTXY



### ★ TORX®/Standard, Chrome (1/4")

| Size | Stock No. | Industrial | A      | B       |   |
|------|-----------|------------|--------|---------|---|
| T8   | TTX8E     | GTTX8E     | 1-9/16 | TTX8E2  | • |
| T10  | TTX10E    | GTTX10E    | 1-9/16 | TTX10E2 | • |
| T15  | TTX15E    | GTTX15E    | 1-9/16 | TTX15E2 | • |
| T20  | TTX20E    | GTTX20E    | 1-9/16 | TTX20E2 | • |
| T25  | TTX25E    | GTTX25E    | 1-9/16 | TTX25E2 | • |
| T27  | TTX27E    | —          | 1-9/16 | FTX27E3 | • |
| T30  | TTX30E    | —          | 1-9/16 | FTX30E3 |   |
| T40  | TTX40E    | —          | 1-9/16 | FTX40E3 |   |

Sets shown include storage tray.

### ★ TORX®/Standard, Chrome (3/8")

#### 212EFTXY 12 pc Combination Drive TORX® Bit Standard Socket Set

- Includes 1/4" drive TTX8E–TTX25E TORX® Drivers plus 3/8" drive FTX27E–FTX55E TORX® Drivers and FTX47E GM®-style Driver (T8–T55 plus GM®-style T47)



105TUTX

### ★ TORX®/Stubby Universal, Chrome (1/4")

| Size | Stock No. | A     | Set Contains: |
|------|-----------|-------|---------------|
| T20  | TUTX20E   | 1-3/4 | •             |
| T25  | TUTX25E   | 1-3/4 | •             |
| T27  | TUTX27E   | 1-3/4 | •             |
| T30  | TUTX30E   | 1-3/4 | •             |
| T40  | TUTX40E   | 1-3/4 | •             |

Sets shown include storage tray.



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## TORX® BIT SOCKETS



TTXB15E



209EFTXBY

### ★ TORX®/Heavy-Duty Removal, Chrome (1/4")

| #   | Stock No. | A      | B        |
|-----|-----------|--------|----------|
| T15 | TTXB15E   | 1-9/16 | TTXB15E2 |
| T20 | TTXB20E   | 1-9/16 | TTXB20E2 |
| T25 | TTXB25E   | 1-9/16 | TTXB25E2 |

Set shown includes magnetic storage tray.

### 209EFTXBY 9 pc Combination Drive TORX® Bit Heavy-Duty Removal Socket Set

- Includes 1/4" drive (T15–T25) and 3/8" drive (T27–T55) (9 pc)
- Tapered profile provides better engagement on stubborn fasteners



TTXR8E



210EFTXRY

### ★ TORX®/Tamper-Resistant, Chrome (1/4")

| #    | Stock No. | A      | B        |
|------|-----------|--------|----------|
| TR8  | TTXR8E    | 1-9/16 | TTXR8E2  |
| TR10 | TTXR10E   | 1-9/16 | TTXR10E2 |
| TR15 | TTXR15E   | 1-9/16 | TTXR15E2 |
| TR20 | TTXR20E   | 1-9/16 | TTXR20E2 |
| TR25 | TTXR25E   | 1-9/16 | TTXR25E2 |
| TR40 | TTXR40E   | 2-1/8  | TTXR40E2 |

Set shown includes magnetic storage tray.

### 210EFTXRY 10 pc Combination Drive TORX® Bit Tamper-Resistant Socket Set

- Includes 1/4" drive (TR8–TR25) and 3/8" drive (TR27–TR50) (10 pc)



TTXL8E



210EFTXL

### ★ TORX®/Long, Chrome (1/4")

| #   | Stock No. | A      | B        |
|-----|-----------|--------|----------|
| T8  | TTXL8E    | 4-1/16 | TTXL8E2  |
| T10 | TTXL10E   | 4-1/16 | TTXL10E2 |
| T15 | TTXL15E   | 4-1/16 | TTXL15E2 |
| T20 | TTXL20E   | 4-1/16 | TTXL20E2 |
| T25 | TTXL25E   | 4-1/16 | TTXL25E2 |

Set shown includes storage tray.

### 210EFTXL 10 pc Combination Drive TORX® Bit Long Socket Set

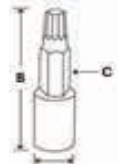
- Includes 1/4" drive (T8–T25) and 3/8" drive (T27–T50) (10 pc)



TTX8TPE



211EFTXTPY



### ★ TORX Plus®/Chrome (1/4")

TORX Plus® fasteners may be found in almost all vehicles from the 1999 model year to present. Common applications include GM® transmissions bell housing bolts and Ford® seat belt anchors. T27IP size can be used to service Taurus® and Sable® front spring shields. Use of a standard TORX® driver on TORX Plus® fasteners may result in a rounded out fastener head or damaged driver.

| #    | Stock No. | A      | B         |
|------|-----------|--------|-----------|
| 8IP  | TTX8TPE   | 1-9/16 | TTX8TPE2  |
| 10IP | TTX10TPE  | 1-9/16 | TTX10TPE2 |
| 15IP | TTX15TPE  | 1-9/16 | TTX15TPE2 |
| 20IP | TTX20TPE  | 1-9/16 | TTX20TPE2 |
| 25IP | TTX25TPE  | 1-9/16 | TTX25TPE2 |

Set shown includes magnetic storage tray.

### 211EFTXTPY 11 pc Combination Drive TORX® Plus® Bit Socket Driver Set

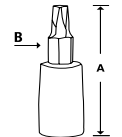
- Includes 1/4" drive (8IP–25IP) and 3/8" drive (27IP–55IP) (11 pc)



TTXR8TPE



211EFTXRTPY



### ★ TORX Plus®/Tamper-Resistant, Chrome (1/4")

| #     | Stock No. | A      | B          |   |
|-------|-----------|--------|------------|---|
| 8IPR  | TTXR8TPE  | 1-9/16 | TTXR8TPE2  | • |
| 10IPR | TTXR10TPE | 1-9/16 | TTXR10TPE2 | • |
| 15IPR | TTXR15TPE | 1-9/16 | TTXR15TPE2 | • |
| 20IPR | TTXR20TPE | 1-9/16 | TTXR20TPE2 | • |
| 25IPR | TTXR25TPE | 1-9/16 | TTXR25TPE2 | • |

Set shown includes magnetic storage tray.

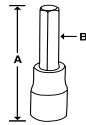
### 211EFTXRTPY 11 pc Combination Drive Tamper-Resistant TORX® Plus® Socket Driver Set

- Includes 1/4" drive (8IPR–55IPR) and 3/8" Drive (27IPR–55IPR)
- Applications: 2003 Ford® Mustang® transmissions, 2004 Ford® F-150 transfer case, 2004 Porsche® Cayenne® turbo air sensor, Delphi® and Stanadyne® pumps, Cummins® B and C engine injection pumps and John Deere® diesel injector pumps

# METRIC HEX BIT SOCKETS



106ETMAMY



Hex/Standard, mm,  
Chrome (1/4")

Set  
Contains:

| mm  |          | A    | B         |   |   |
|-----|----------|------|-----------|---|---|
| 2   | TMAM2E   | 47.8 | TMAM2E2A  | • | • |
| 2.5 | TMAM2.5E | 47.8 | TMAM2.5E2 | • | • |
| 3   | TMAM3E   | 47.8 | TMAM3E2   | • | • |
| 4   | TMAM4E   | 47.8 | TMAM4E2   | • | • |
| 5   | TMAM5E   | 47.8 | TMAM5E2   | • | • |
| 6   | TMAM6E   | 47.8 | TMAM6E2   | • | • |

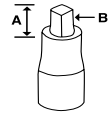
Sets include magnetic storage tray.

## 106ETMAMY 6 pc 1/4" Drive Metric Standard Hex Bit Socket Set

- Includes (6) metric standard hex bit sockets (2–6 mm)



208EFTAMXSY



Hex/Stubby, mm,  
Chrome (1/4")

Set  
Contains:

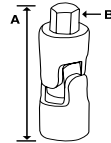
| mm |          | A    | B         |   |
|----|----------|------|-----------|---|
| 3  | TMAMXS3E | 26.0 | TMAMXS3E2 | • |
| 4  | TMAMXS4E | 27.1 | TMAMXS4E2 | • |
| 5  | TMAMXS5E | 28.1 | TMAMXS5E2 | • |
| 6  | TMAMXS6E | 29.1 | TMAMXS6E2 | • |

Sets include magnetic storage tray.

## 208EFTAMXSY 8 pc Combination Drive Metric Hex Bit Stubby Socket Driver Set

- Includes (8) socket drivers—1/4" drive and 3/8" drive (3–10 mm)

Hex/Stubby Universal,  
mm, Chrome (1/4")



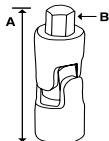
| mm |        | A    | B         |
|----|--------|------|-----------|
| 4  | TUAM4E | 36.6 | TMAMXS4E2 |
| 5  | TUAM5E | 12.7 | TMAMXS5E2 |
| 6  | TUAM6E | 12.7 | TMAMXS6E2 |



TUAM4E



208EFTABMY



Ball Hex/Standard, mm,  
Chrome (1/4")

Set  
Contains:

| mm |         | A    | B        |   |
|----|---------|------|----------|---|
| 3  | TMABM3E | 47.7 | TMABM3E2 | • |
| 4  | TMABM4E | 47.6 | TMABM4E2 | • |
| 5  | TMABM5E | 47.9 | TMABM5E2 | • |
| 6  | TMABM6E | 47.9 | TMABM6E2 | • |

## 208EFTABMY 8 pc Combination Drive Metric Ball Hex Bit Socket Set

- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4" drive and 3/8" drive (3–10 mm), in a magnetic storage tray

Hex/Stubby Universal,  
Inches, Chrome (1/4")

## TUA6E 1/4" Drive 3/16" Stubby Flex Hex Bit Socket

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Bit TMAXS6E2



TUA6E

## Combination Bit Socket Sets

### 237HEXTORXST 37 pc Combination Drive Socket Driver Set

- Up to 20% stronger than 1 pc bit designs and up to twice ANSI® proof load
- Heat treated for strength and durability
- Precise fit to fasteners and multiple detents for secure drive attachment

- Set includes:
  - (5) 1/4" Drive Standard TORX® Bit Sockets
  - (7) 3/8" Drive Standard TORX® Bit Sockets
  - (7) 3/8" Drive Stubby TORX® Bit Sockets
  - (3) 3/8" Drive Triple Square Drivers
  - (7) 3/8" Drive Metric Hex Bit Sockets
  - (4) 1/4" Drive Stubby Metric Hex Bit Sockets
  - (4) 3/8" Drive Stubby Metric Hex Bit Sockets



237HEXTORXST



**WARNING**



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## HEX BIT SOCKETS



GTMA3E



110ETMAY



212EFTAY

### Hex/Standard, Inches, Chrome (1/4")

|      |         |          | A      | Bit       | Optional Long Bit | Optional Long Bit Length, inches |   |
|------|---------|----------|--------|-----------|-------------------|----------------------------------|---|
|      |         |          |        |           |                   |                                  |   |
| 1/16 | TMA2E   | —        | 1-1/32 | TMA2E2    | TMAL2E2           | 6                                | • |
| 5/64 | TMA2.5E | GTMA2.5E | 1-1/32 | TMA2.5E2A | TMAL2.5E2         | 6                                | • |
| 3/32 | TMA3E   | GTMA3E   | 1-1/32 | TMA3E2A   | TMAL3E2           | 6                                | • |
| 7/64 | TMA3.5E | —        | 1-1/32 | TMA3.5E2A | TMAL3.5E2         | 6                                | • |
| 1/8  | TMA4E   | GTMA4E   | 1-1/32 | TMA4E2    | TMAL4E2           | 6                                | • |
| 9/64 | TMA4.5E | —        | 1-1/16 | TMA4.5E2  | TMAL4.5E2         | 6                                | • |
| 5/32 | TMA5E   | GTMA5E   | 1-1/16 | FA5E2     | —                 | —                                | • |
| 3/16 | TMA6E   | GTMA6E   | 1-3/32 | FA6E2     | —                 | —                                | • |
| 7/32 | TMA7E   | GTMA7E   | 1-7/8  | FA7E2     | —                 | —                                | • |
| 1/4  | TMA8E   | GTMA8E   | 1-7/8  | FA8E2     | —                 | —                                | • |

NOTE: Optional long bits are not included in the listed sets.

Sets shown include storage tray.

### 212EFTAY 12 pc Combination Drive SAE Standard Hex Driver Bit Socket Set

- Includes (12) 1/4 and 3/8" drive Standard Hex Bit Sockets (1/16–3/8")



208EFTAXSY



208EFTABY

### Hex/Stubby, Inches, Chrome (1/4")

|      |           | A      | B    | Replacement Bit |
|------|-----------|--------|------|-----------------|
|      |           |        |      |                 |
| 3/32 | TMAXS3E   | 1-1/32 | 5/32 | TMAXS3E2        |
| 9/64 | TMAXS4.5E | 1-1/16 | 3/16 | TMAXS4.5E2      |
| 1/8  | TMAXS4E   | 1-1/32 | 5/32 | TMAXS4E2        |
| 5/32 | TMAXS5E   | 1-1/16 | 3/16 | TMAXS5E2        |
| 3/16 | TMAXS6E   | 1-3/32 | 7/32 | TMAXS6E2        |

### TMAXS3E 1/4" Drive SAE 3/32" Stubby Hex Socket Driver

- For fasteners on Rolls-Royce® commercial aircraft V2500 engines
- A stubby bit socket allows for a positive fit, giving more direct torque when removing or installing these fasteners

### 208EFTAXSY 8 pc Combination Drive SAE Hex Bit Stubby Socket Driver Set

- Includes (8) 1/4 and 3/8" drive Stubby Hex Bit Sockets (1/8–3/8")

### Ball Hex/Standard, Inches, Chrome (1/4")

|      |          | A     | Bit       |
|------|----------|-------|-----------|
|      |          |       |           |
| 1/8  | TMAB4E   | 1-7/8 | TMAB4E2   |
| 9/64 | TMAB4.5E | 1-7/8 | TMAB4.5E2 |
| 5/32 | TMAB5E   | 1-7/8 | TMAB5E2   |
| 3/16 | TMAB6E   | 1-7/8 | TMAB6E2   |

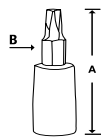
### 208EFTABY 8 pc Combination Drive SAE Standard Ball Hex Bit Socket Set

- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4" drive and 3/8" drive (1/8–3/8"), in a magnetic storage tray

## SPECIAL APPLICATION BIT



PTMTS4SE



### PTMTS4SE 1/4" Drive MTS-4 Mortorq® Stubby Bit Socket


- Applications: Connects the fuel cell to the electric motors and other systems on Hyundai® Tucson® IX Fuel Cell Vehicles

### Mortorq®/Super Bit

|       | Stock No. | A       | B         |
|-------|-----------|---------|-----------|
|       |           |         |           |
| MTS-4 | PTMTS4SE  | 1-11/16 | PTMTS4SE2 |

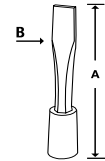
# FLAT TIP AND PHILLIPS® TIP BIT SOCKETS

## — Flat Tip/Standard, Chrome (1/4")


|                 |  | Stock No. | A       | Dimension B, Bit |
|-----------------|---|-----------|---------|------------------|
| Standard Length | 3/16 x .032   | TMC104E   | 2-7/8   | TMC104E2A        |
|                 | 1/4 x .032  | TMC105E   | 2-15/16 | TMC105E2A        |
|                 | 3/8 x .042  | TMC106E   | 2-7/8   | TMC106E2A        |
| Short           | 1/4" x .036   | TM82      | 7/8     | TM82-2C          |

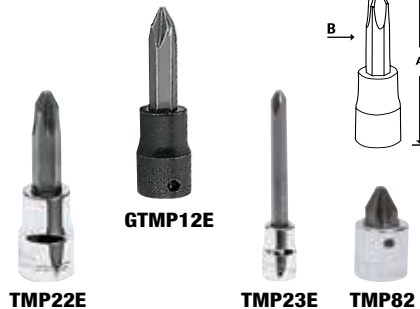


TMC104E



## + PHILLIPS®/Standard, Chrome (1/4")

|          |  | Stock No. | Industrial Stock No. | A      | B, Bit   |
|----------|---|-----------|----------------------|--------|----------|
| Standard | #1  | TMP12E    | GTMP12E              | 1-7/8  | TMP12E2  |
|          | #2  | TMP22E    | —                    | 1-7/8  | FP22E2   |
| Short    | #2  | TMP21E    | —                    | 1-1/4  | TMP21E2  |
|          | #2  | TMP82     | —                    | 15/16  | TMP82-2B |
| Long     | #2  | TMP23E    | —                    | 3-1/16 | TMP23E2  |

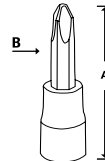


TMP22E

GTMP12E


TMP23E

TMP82



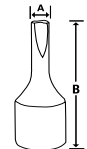
## CLUTCH BIT SOCKETS

### ☛ Clutch/Standard, Chrome (1/4")

|  | Stock No. | A    | B     |
|--|-----------|------|-------|
| 3/16"  | TM27E     | 3/16 | 1-3/8 |
| 1/4"   | TM30E     | 1/4  | 1-3/8 |
| 5/32   | TM31E     | 5/32 | 1-3/8 |



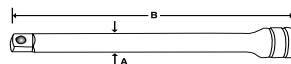
TM27E



## IMPACT ACCESSORIES



103ITMX



### Extensions (Impact)

- Features snap-ring anvil for excellent socket-to-extension engagement
- Designed for use with most 1/4" cordless electric and air operated impact tools

| Stock No. | Finish            | A    | B |   |
|-----------|-------------------|------|---|---|
| ITMX20    | Industrial Finish | 5/16 | 2 | • |
| ITMX40    | Industrial Finish | 5/16 | 4 | • |
| ITMX60    | Industrial Finish | 5/16 | 6 | • |

Set shown includes storage tray.

Set Contains:

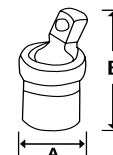
103ITMX



IPM80B



IPM800B



### Swivel Ball Universal Joint (Impact)

| Stock No. | Retention Type | A   | B     |
|-----------|----------------|-----|-------|
| IPM80B    | Lock Button    | 5/8 | 1-3/8 |
| IPM800B   | Friction Ball  | 5/8 | 1-3/8 |

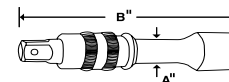


- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## IMPACT ACCESSORIES



105TMIXL



### Locking Extensions (Impact)

- Quick-release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands
- Female drive end recessed to accommodate new style impact guns
- Positive pin lock retains socket securely
- Heavy-duty shank for high torque applications

| Stock No. | A     | B      | Set Contains: |
|-----------|-------|--------|---------------|
| TMIXL122  | 11/32 | 11-7/8 | •             |
| TMIXL182  | 11/32 | 17-3/4 | •             |
| TMIXL242  | 11/32 | 23-3/4 | •             |
| TMIXL32   | 11/32 | 2-7/8  | •             |
| TMIXL62   | 11/32 | 5-7/8  | •             |

Set includes storage tray.

## FLANK DRIVE® IMPACT SOCKETS



112IMTMM

### Shallow, mm

| mm  | 6        | A    | B    | C    | D    | E   | 6 | 6 |
|-----|----------|------|------|------|------|-----|---|---|
| 4   | IMTMM4   | 7.9  | 12.7 | 12.7 | 22.2 | 4.0 |   |   |
| 4.5 | IMTMM4.5 | 7.9  | 12.7 | 12.7 | 22.2 | 4.0 |   |   |
| 5   | IMTMM5   | 8.5  | 12.1 | 13.1 | 22.2 | 4.1 | • |   |
| 5.5 | IMTMM5.5 | 9.3  | 12.1 | 13.1 | 22.2 | 4.1 | • |   |
| 6   | IMTMM6   | 10.2 | 12.1 | 13.1 | 22.2 | 6.1 | • |   |
| 7   | IMTMM7   | 11.5 | 12.1 | 13.1 | 22.2 | 6.1 | • |   |
| 8   | IMTMM8   | 12.7 | 12.7 | 13.1 | 22.2 | 6.1 | • |   |
| 9   | IMTMM9   | 14.0 | 14.0 | 13.1 | 22.2 | 6.1 | • |   |
| 10  | IMTMM10  | 15.2 | 15.2 | 13.0 | 22.2 | 6.1 | • |   |
| 11  | IMTMM11  | 16.4 | 16.4 | 12.8 | 22.2 | 6.4 | • |   |
| 12  | IMTMM12  | 17.3 | 17.3 | 12.7 | 22.2 | 7.1 | • |   |
| 13  | IMTMM13  | 18.7 | 18.7 | 12.5 | 22.2 | 7.4 | • |   |
| 14  | IMTMM14  | 20.3 | 20.3 | 13.1 | 23.0 | 8.6 | • |   |
| 15  | IMTMM15  | 21.1 | 21.1 | 13.9 | 23.8 | 8.9 | • |   |

Set includes magnetic storage tray.



112SIMTMM

### Deep, mm

| mm  | 6         | A    | B    | C    | D    | E   | 6 |
|-----|-----------|------|------|------|------|-----|---|
| 4   | SIMTMM4   | 7.9  | 12.7 | 41.3 | 50.8 | 4.0 |   |
| 4.5 | SIMTMM4.5 | 7.9  | 12.7 | 41.3 | 50.8 | 4.0 |   |
| 5   | SIMTMM5   | 8.5  | 12.1 | 41.9 | 50.8 | 4.1 | • |
| 5.5 | SIMTMM5.5 | 9.3  | 12.1 | 41.9 | 50.8 | 4.1 | • |
| 6   | SIMTMM6   | 10.2 | 12.1 | 41.9 | 50.8 | 6.1 | • |
| 7   | SIMTMM7   | 11.5 | 12.1 | 41.9 | 50.8 | 6.1 | • |
| 8   | SIMTMM8   | 12.7 | 12.7 | 41.9 | 50.8 | 6.1 | • |
| 9   | SIMTMM9   | 14.0 | 14.0 | 41.9 | 50.8 | 6.1 | • |
| 10  | SIMTMM10  | 15.2 | 15.2 | 41.9 | 50.8 | 6.1 | • |
| 11  | SIMTMM11  | 16.4 | 16.4 | 41.9 | 50.8 | 6.4 | • |
| 12  | SIMTMM12  | 17.3 | 17.3 | 41.9 | 50.8 | 7.1 | • |
| 13  | SIMTMM13  | 18.7 | 18.7 | 41.9 | 50.8 | 7.4 | • |
| 14  | SIMTMM14  | 20.3 | 20.3 | 41.9 | 50.8 | 8.6 | • |
| 15  | SIMTMM15  | 21.1 | 21.1 | 41.9 | 50.8 | 8.9 | • |

Set includes magnetic storage tray.



106IMTM

### Shallow, inches

| 11   | 6       | A     | B   | C     | D     | E     | 6 |
|------|---------|-------|-----|-------|-------|-------|---|
| 1/4  | IMTM8A  | 13/32 | 1/2 | 17/32 | 7/8   | 1/4   | • |
| 5/16 | IMTM10A | 1/2   | 1/2 | 17/32 | 7/8   | 1/4   | • |
| 3/8  | IMTM12A | 9/16  | 1/2 | 17/32 | 7/8   | 1/4   | • |
| 7/16 | IMTM14A | 21/32 | 1/2 | 17/32 | 7/8   | 1/4   | • |
| 1/2  | IMTM16A | 23/32 | 1/2 | 17/32 | 7/8   | 9/32  | • |
| 9/16 | IMTM18A | 13/16 | 1/2 | 9/16  | 29/32 | 11/32 | • |

Set includes magnetic storage tray.



106SIMTM

### Deep, inches

| 11   | 6       | A     | B     | C     | D | E     | 6 |
|------|---------|-------|-------|-------|---|-------|---|
| 1/4  | SIMTM8  | 13/32 | 15/32 | 1-1/2 | 2 | 1/4   | • |
| 5/16 | SIMTM10 | 1/2   | 1/2   | 1-1/2 | 2 | 1/4   | • |
| 3/8  | SIMTM12 | 9/16  | 9/16  | 1-1/2 | 2 | 1/4   | • |
| 7/16 | SIMTM14 | 21/32 | 21/32 | 1-1/2 | 2 | 1/4   | • |
| 1/2  | SIMTM16 | 11/16 | 11/16 | 1-1/2 | 2 | 9/32  | • |
| 9/16 | SIMTM18 | 13/16 | 13/16 | 1-1/2 | 2 | 11/32 | • |

ASME®/ANSI® B107.2

Set includes magnetic storage tray.

# FLANK DRIVE® IMPACT SWIVEL SOCKETS



106IPTMMA

## Shallow Swivel, mm

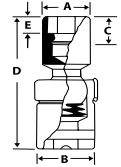
Set Contains: 106IPTMMA

| mm  | 6           | A    | B    | D    | E   | 6 |
|-----|-------------|------|------|------|-----|---|
| 5   | IPTMM5A ‡   | 8.6  | 16.6 | 44.4 | 4.1 |   |
| 5.5 | IPTMM5.5A ‡ | 9.5  | 16.6 | 44.8 | 4.1 |   |
| 6   | IPTMM6A ‡   | 10.7 | 16.6 | 45.2 | 4.1 |   |
| 7   | IPTMM7A ‡   | 11.5 | 16.6 | 46.4 | 4.3 |   |
| 8   | IPTMM8A ‡   | 11.5 | 16.6 | 46.4 | 4.3 | • |
| 9   | IPTMM9A ‡   | 12.8 | 16.6 | 47.5 | 4.8 |   |
| 10  | IPTMM10A ‡  | 14.1 | 16.6 | 48.7 | 5.3 | • |
| 11  | IPTMM11A ‡  | 15.5 | 16.6 | 49.9 | 5.8 |   |
| 12  | IPTMM12A ‡  | 17.5 | 18.9 | 53.2 | 6.9 | • |
| 13  | IPTMM13A ‡  | 18.9 | 18.9 | 54.4 | 7.4 | • |
| 14  | IPTMM14A ‡  | 20.5 | 18.9 | 56.0 | 7.9 | • |
| 15  | IPTMM15A ‡  | 21.3 | 18.9 | 56.4 | 7.9 | • |

Set includes storage tray.



106IPTMA



## Shallow Swivel, inches

Set Contains: 106IPTMA

|      | 6       | A     | B     | C     | D       | E    | 6 |
|------|---------|-------|-------|-------|---------|------|---|
| 1/4  | IPTM8A  | 7/16  | 21/32 | 9/32  | 1-25/32 | 5/32 | • |
| 5/16 | IPTM10A | 17/32 | 21/32 | 11/32 | 1-7/8   | 5/32 | • |
| 3/8  | IPTM12A | 9/16  | 21/32 | 13/32 | 1-15/16 | 3/16 | • |
| 7/16 | IPTM14A | 21/32 | 24/32 | 7/16  | 2-1/32  | 1/4  | • |
| 1/2  | IPTM16A | 23/32 | 24/32 | 9/16  | 2-5/32  | 9/32 | • |
| 9/16 | IPTM18A | 13/16 | 24/32 | 19/32 | 2-7/32  | 5/16 | • |

Set includes storage tray.

# SPECIAL APPLICATION IMPACT SOCKETS

## Shallow 10-Point, mm

### 1/4" Drive 10-Point Metric 10 mm Shallow Impact Socket

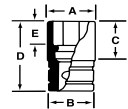
- Body: Remove/install seat tracks on Honda® Odyssey® and Pilot
- Forged from tough alloy steel
- Heat treated to a lower hardness to add impact resistance and ductility

### DPTM10 1/4" Drive 10-Point Metric 10 mm Shallow Impact Socket

### DPTM8 1/4" Drive 10-Point Metric 8 mm Shallow Impact Socket



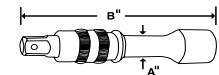
DPTM10



# POWER ACCESSORIES

## Locking Power Adaptors

- Use with electric/cordless drills and screwdrivers that accept 1/4" shanks
- Manufactured from the highest quality proprietary steel providing optimum strength and durability
- Knurled sleeve provides easy attachment and removal of sockets even with the greasiest hands
- One-handed lock mechanism with ball retention ensures socket retention and allows for faster socket attachment and removal
- Black oxide finish helps protect against corrosion for longer tool life



103TMLPA

Set Contains: 103TMLPA

| Stock No. | A   | B |   |
|-----------|-----|---|---|
| TMLPA2    | 1/4 | 2 | • |
| TMLPA4    | 1/4 | 4 | • |
| TMLPA6    | 1/4 | 6 | • |

Set includes storage tray.



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use power accessories with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

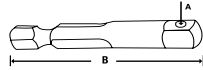
## POWER ACCESSORIES

### Hex-to-Square Adaptors (Power)

- 1/4" hex size; 1" length of hex



GM3048



| Stock No. | A           | B |
|-----------|-------------|---|
| GM3042A   | Lock Button | 2 |
| GM3043    | Lock Button | 4 |
| GM3046    | Lock Button | 6 |
| GM3048    | Lock Button | 8 |

### TORX®/Standard (Power), Industrial (1/4")



TTX20E2

PTTX20E

| #   | Stock No. | A      | B       |
|-----|-----------|--------|---------|
| T20 | PTTX20E   | 1-9/16 | TTX20E2 |
| T25 | PTTX25E   | 1-9/16 | TTX25E2 |

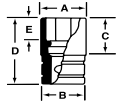
## FLANK DRIVE® MAGNETIC SOCKETS

### Shallow Magnetic, mm

- Magnetic sockets are perfect for installing and removing a fastener as the magnetic feature will hold the fastener in the socket saving time and frustration
- Square drive side hole works with ball- or pin-type retention
- Flank Drive® wrenching system grips the fastener on the socket flanks (flats) to deliver up to 15–25% more turning power
- MGMM series sockets are not designed to be used with Impact Drivers



110MGMM



| mm  | 6       | A    | B    | D    | E   | 6 |
|-----|---------|------|------|------|-----|---|
| 5   | MGMM5   | 8.4  | 12.1 | 22.8 | 4.6 | • |
| 5.5 | MGMM5.5 | 9.3  | 12.1 | 22.8 | 5.1 | • |
| 6   | MGMM6   | 10.2 | 12.1 | 22.8 | 6.1 | • |
| 7   | MGMM7   | 11.5 | 12.1 | 22.8 | 6.1 | • |
| 8   | MGMM8   | 12.7 | 12.7 | 23.8 | 6.1 | • |
| 10  | MGMM10  | 15.2 | 15.2 | 23.8 | 6.1 | • |
| 12  | MGMM12  | 17.3 | 17.3 | 23.8 | 6.4 | • |
| 13  | MGMM13  | 18.9 | 18.9 | 23.8 | 7.9 | • |
| 14  | MGMM14  | 20.5 | 20.5 | 23.8 | 8.6 | • |
| 15  | MGMM15  | 21.3 | 21.3 | 23.8 | 8.6 | • |

Set Contains: 110MGMM

## FLANK DRIVE® MAGNETIC POWER SOCKETS



MGM10C

### Shallow Magnetic, inches

| II   | 6      | A     | B     | D     | E    |
|------|--------|-------|-------|-------|------|
| 1/4  | MGMS7A | 7/16  | 1/2   | 7/8   | 3/32 |
| 5/16 | MGM10C | 1/2   | 1/2   | 15/16 | 3/32 |
| 3/8  | MGM12C | 9/16  | 19/32 | 15/16 | 1/8  |
| 7/16 | MGM14C | 11/16 | 11/16 | 15/16 | 1/8  |



MGMS10A

### Deep Magnetic/ Spring Loaded, mm

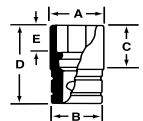
| mm | 6       | A    | B    | D    | E   |
|----|---------|------|------|------|-----|
| 7  | MGMS7A  | 10.7 | 12.4 | 50.8 | 5.8 |
| 8  | MGMS8A  | 11.8 | 12.4 | 50.8 | 5.8 |
| 10 | MGMS10A | 14.1 | 14.1 | 50.8 | 6.4 |
| 11 | MGMS11B | 15.6 | 15.6 | 50.8 | 6.4 |
| 12 | MGMS12B | 17.3 | 17.3 | 50.8 | 7.1 |
| 13 | MGMS13A | 18.1 | 18.1 | 50.8 | 7.6 |



MGMS10A

### Deep Magnetic/ Spring Loaded, inches

| II   | 6       | A   | B     | D | E    |
|------|---------|-----|-------|---|------|
| 5/16 | MGMS10A | 3/8 | 15/32 | 2 | 5/16 |
| 1/4  | MGMS8A  | 3/8 | 7/16  | 2 | 3/32 |







**108RATEXFR01**



**106BTMXFR**



**RAT2THLLFFR**

**1/4" Drive Flex Head Ratchet and Extension Foam Sets**

| Set Contains: | 108RATEXFR01 | 106BTMXFR | RAT2THLLFFR |
|---------------|--------------|-----------|-------------|
|---------------|--------------|-----------|-------------|

| Stock No.      | Description                           | 108RATEXFR01 | 106BTMXFR | RAT2THLLFFR |
|----------------|---------------------------------------|--------------|-----------|-------------|
| <b>THLF72</b>  | Long Soft Grip Handle Flex Head       | •            |           | •           |
| <b>THLLF72</b> | Extra-Long Soft Grip Handle Flex Head | •            |           | •           |
| <b>TMX1</b>    | 1/4" Drive 1-1/4" Extension           | •            | •         |             |
| <b>TMXK110</b> | 1/4" Drive 11" Knurled Extension      | •            | •         |             |
| <b>TMXK2</b>   | 1/4" Drive 2" Knurled Extension       | •            | •         |             |
| <b>TMXK4</b>   | 1/4" Drive 4" Knurled Extension       | •            | •         |             |
| <b>TMXK60</b>  | 1/4" Drive 6" Knurled Extension       | •            | •         |             |
| <b>TMXK80</b>  | 1/4" Drive 8" Knurled Extension       | •            | •         |             |

**1/8" DRIVE GENERAL SERVICE SET**

**1605TA General Service Set**

|      | Stock No.   | Description                         |
|------|-------------|-------------------------------------|
| 3/32 | <b>T6</b>   | 1/8" Drive 6-Point SAE 3/32" Socket |
| 1/8  | <b>T8</b>   | 1/8" Drive 6-Point SAE 1/8" Socket  |
| 5/32 | <b>T10</b>  | 1/8" Drive 6-Point SAE 5/32" Socket |
| 3/16 | <b>T12</b>  | 1/8" Drive 6-Point SAE 3/16" Socket |
| —    | <b>T40A</b> | 1/8" Drive Handle                   |



**1605TA**



• Do not use chrome or industrial finish hand tools with impact drivers  
 • Read safety precautions on pages W1 to W4

# GENERAL SERVICE SETS

## Handles, Chrome

Seven Tools, includes:

| Stock No. | Description   |
|-----------|---|
| T72       | Standard Handle   |
| TMU8B     | 1/4" Drive Universal Joint                                    |
| TMXK2     | 1/4" Drive 2" Knurled Extension                               |
| TMXK4     | 1/4" Drive 4" Knurled Extension                               |
| TMXK60    | 1/4" Drive 6" Knurled Extension                               |
| TM10G     | 1/4" Drive 6" Breaker Bar                                     |
| SGT4BR    | 1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver |



107ATMPB

### 107ATMPB Expandable General Service

#### Set and Additions

- Start with the 107ATMPB General Service Set and add any of the suggested socket sets below to custom build exactly the 1/4" drive set you need
- The storage case has a large enough cavity to accommodate two rows of sockets—standard, semi-deep, deep, universal or any combination of these in SAE or metric sizes

#### Set (Add-on):

| Suggested Additions Not Included in Set: | Stock No. | Description  |
|--|-----------|--|
|  | 110TMY    | 10 pc 1/4" Drive 6-Point SAE Flank Drive® Shallow Socket Set     |
|  | 110STMY   | 10 pc 1/4" Drive 6-Point SAE Flank Drive® Deep Socket Set        |
|  | 111TMMDY  | 11 pc 1/4" Drive 12-Point Metric Flank Drive® Shallow Socket Set |
|  | 111STMMDY | 11 pc 1/4" Drive 12-Point Metric Flank Drive® Deep Socket Set    |
|  | 106ETMAMY | 6 pc 1/4" Drive Metric Standard Hex Bit Socket Set               |



131TMPB

### 131TMPB 31 pc 1/4" Drive 6-Point Metric Shallow General Service Socket Set

31 Tools, Includes:

| mm  | 6-Point Shallow Sockets | 6-Point Deep Sockets |
|-----|-------------------------|----------------------|
| 5   | TMM5                    | STMM5                |
| 5.5 | TMM5.5                  | STMM5.5              |
| 6   | TMM6                    | STMM6                |
| 7   | TMM7                    | STMM7                |
| 8   | TMM8                    | STMM8                |
| 9   | TMM9                    | STMM9                |
| 10  | TMM10                   | STMM10               |
| 11  | TMM11                   | STMM11               |
| 12  | TMM12                   | STMM12               |
| 13  | TMM13                   | STMM13               |
| 14  | TMM14                   | STMM14               |
| 15  | TMM15                   | STMM15               |

| Also Includes: | Stock No. | Description                            |
|----------------|-----------|--|
|                | TMXK60    | 1/4" Drive 6" Knurled Extension        |
|                | TMXK2     | 1/4" Drive 2" Knurled Extension        |
|                | T72       | Standard Handle                        |
|                | TM10G     | 1/4" Drive 6" Breaker Bar              |
|                | TMU8B     | 1/4" Drive Universal Joint             |
|                | SSDMR4B   | 8-3/4" Ratcheting Standard Screwdriver |
|                | GMB3041   | 1/4" Hex-To-1/4" Square Adaptor        |



117TMM

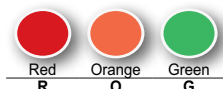
### 117TMM\* 17 pc 1/4" Drive 6-Point Metric Starter Socket Set

17 Tools, Includes:

| mm  | 6-Point Shallow Sockets |
|-----|-------------------------|
| 4   | TMM4                    |
| 5   | TMM5                    |
| 5.5 | TMM5.5                  |
| 6   | TMM6                    |
| 7   | TMM7                    |
| 8   | TMM8                    |
| 9   | TMM9                    |
| 10  | TMM10                   |
| 11  | TMM11                   |
| 12  | TMM12                   |
| 13  | TMM13                   |
| 14  | TMM14                   |
| 15  | TMM15                   |

| Also Includes: | Stock No. | Description                     |
|----------------|-----------|---------------------------------|
|                | T72       | Standard Handle                 |
|                | TMU8B     | 1/4" Drive Universal Joint      |
|                | TMXK2     | 1/4" Drive 2" Knurled Extension |
|                | TMXK4     | 1/4" Drive 4" Knurled Extension |

\*Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



144TMPB

**144TMPB 44 pc 1/4" Drive 6-Point Metric/SAE General Service Set**  
**44 Tools, Includes:**

| mm  | 6-Point Shallow Sockets | SAE   | 6-Point Shallow Sockets | mm  | 6-Point Deep Sockets | SAE   | 6-Point Deep Sockets |
|-----|-------------------------|-------|-------------------------|-----|----------------------|-------|----------------------|
| 5.5 | TMM5.5                  | 3/16  | TM6*                    | 5.5 | STMM5.5              | 3/16  | STM6                 |
| 6   | TMM6                    | 7/32  | TM7*                    | 6   | STMM6                | 7/32  | STM7                 |
| 7   | TMM7                    | 1/4   | TM8                     | 7   | STMM7                | 1/4   | STM8                 |
| 8   | TMM8                    | 9/32  | TM9                     | 8   | STMM8                | 9/32  | STM9                 |
| 9   | TMM9                    | 5/16  | TM10                    | 9   | STMM9                | 5/16  | STM10                |
| 10  | TMM10                   | 11/32 | TM11                    | 10  | STMM10               | 11/32 | STM11                |
| 11  | TMM11                   | 3/8   | TM12                    | 11  | STMM11               | 3/8   | STM12                |
| 12  | TMM12                   | 7/16  | TM14                    | 12  | STMM12               | 7/16  | STM14                |
| 13  | TMM13                   | 1/2   | TM16                    | 13  | STMM13               | 1/2   | STM16                |
| 14  | TMM14                   | 9/16  | TM18                    | 14  | STMM14               | 9/16  | STM18                |

\*Conventional hex

| Also Includes: | Stock No. | Description                     |
|----------------|-----------|---------------------------------|
|                | T72       | Standard Handle                 |
|                | TMU8B     | 1/4" Drive Universal Joint      |
|                | TMXK2     | 1/4" Drive 2" Knurled Extension |
|                | TMXK60    | 1/4" Drive 6" Knurled Extension |
|                | PB99A     | Storage Case                    |



134ATMP

**134ATMP 34 pc 1/4" Drive 6-Point SAE Shallow/Deep General Service Socket Set**  
**34 Tools, Includes:**

| SAE   | 6-Point Shallow Sockets | SAE   | 6-Point Deep Sockets |
|-------|-------------------------|-------|----------------------|
| 3/16  | TM6*                    | 3/16  | STM6                 |
| 7/32  | TM7*                    | 7/32  | STM7                 |
| 1/4   | TM8                     | 1/4   | STM8                 |
| 9/32  | TM9                     | 9/32  | STM9                 |
| 5/16  | TM10                    | 5/16  | STM10                |
| 11/32 | TM11                    | 11/32 | STM11                |
| 3/8   | TM12                    | 3/8   | STM12                |
| 7/16  | TM14                    | 7/16  | STM14                |
| 1/2   | TM16                    | 1/2   | STM16                |
| 9/16  | TM18                    | 9/16  | STM18                |

| Also Includes: | Stock No. | Description   |
|----------------|-----------|---|
|                | T72       | Standard Handle   |
|                | TMU8B     | 1/4" Drive Universal Joint                                    |
|                | TMXK2     | 1/4" Drive 2" Knurled Extension                               |
|                | TMXK4     | 1/4" Drive 4" Knurled Extension                               |
|                | TMXK60    | 1/4" Drive 6" Knurled Extension                               |
|                | SGT4BR    | 1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver |
|                | TM10G     | 1/4" Drive 6" Breaker Bar                                     |
|                | TM61A     | 1/4" Drive 6" Flexible Extension                              |
|                | TM77      | 1/4" Drive 20-Tooth Ratchet Adaptor                           |
|                | TM82      | 1/4" Drive 1/4" Flat Tip Short Bit Socket                     |
|                | TM408     | 1/4" Drive 8-Point 1/4" Double Square Socket                  |
|                | TM410     | 1/4" Drive 8-Point 5/16" Double Square Socket                 |
|                | TM412     | 1/4" Drive 8-Point 3/8" Double Square Socket                  |
|                | TMS70A    | 1/4" Drive Spinner Ratchet                                    |




- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## GENERAL SERVICE SETS



**114ATMP 14 pc 1/4" Drive 6-point SAE Shallow General Service Socket Set**

14 Tools, Includes:


|  | 6-Point Shallow Sockets |
|---|-------------------------|
| 3/16  | TM6                     |
| 7/32  | TM7                     |
| 1/4   | TM8                     |
| 9/32  | TM9                     |
| 5/16  | TM10                    |
| 11/32   | TM11                    |
| 3/8   | TM12                    |
| 7/16  | TM14                    |
| 1/2   | TM16                    |
| 9/16  | TM18                    |

| Also Includes: | Stock No. | Description                                     |
|----------------|-----------|---|
|                | T72       | Standard Handle                                 |
|                | TMU8B     | 1/4" Drive 1-1/8" Friction Ball Universal Joint |
|                | TMXK2     | 1/4" Drive 2" Knurled Extension                 |
|                | TMXK4     | 1/4" Drive 4" Knurled Extension                 |



**120DTMPB 20 pc 1/4" Drive 6-Point SAE Shallow General Service Socket Set**

20 Tools, Includes:

|  | 6-Point Shallow Sockets |
|---|-------------------------|
| 3/16  | TM6                     |
| 7/32  | TM7                     |
| 1/4   | TM8                     |
| 9/32  | TM9                     |
| 5/16  | TM10                    |
| 11/32   | TM11                    |
| 3/8   | TM12                    |
| 7/16  | TM14                    |
| 1/2   | TM16                    |
| 9/16  | TM18                    |

| Also Includes: | Stock No. | Description                                     |
|----------------|-----------|---|
|                | TM4CSA    | 1/4" Drive 6" Standard Shank Driver             |
|                | TM10G     | 1/4" Drive 6" Breaker Bar                       |
|                | TM408     | 1/4" Drive 8-Point 1/4" Double Square Socket    |
|                | TM410     | 1/4" Drive 8-Point 5/16" Double Square Socket   |
|                | TM412     | 1/4" Drive 8-Point 3/8" Double Square Socket    |
|                | T72       | Standard Handle                                 |
|                | TMU8B     | 1/4" Drive 1-1/8" Friction Ball Universal Joint |
|                | TMXK2     | 1/4" Drive 2" Knurled Extension                 |
|                | TMXK4     | 1/4" Drive 4" Knurled Extension                 |
|                | TMXK60    | 1/4" Drive 6" Knurled Extension                 |

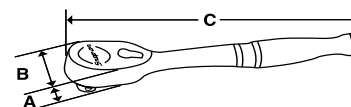
## RATCHETS, HANDLES AND ACCESSORIES (Blue-Point®)



BPRTR936



BPRTR936SG



### Quick-Release Ratchets (Blue-Point®) (1/4")

| Stock No.  | Description   | Gear Teeth | Gear Action | A     | B     | C     | Ratchet Service Kit |
|------------|---|------------|-------------|-------|-------|-------|---------------------|
| BPRTR936   | 1/4" Drive Standard Handle Quick-Release Ratchet (Blue-Point®)  | 36         | 10°         | 15/32 | 31/32 | 5-5/8 | RKRBPRTR936         |
| BPRTR936SG | 1/4" Drive Soft Grip Handle Quick-Release Ratchet (Blue-Point®) | 36         | 10°         | 15/32 | 31/32 | 5-5/8 | RKRBPRTR936         |

ASME®/ANSI® B107.10

### BPR703 3 pc Standard Handle Quick-Release Ratchet Set (Blue-Point®)

- 1/4" Drive BPRTR936, 3/8" Drive BPRFR938 and 1/2" Drive BPRSR940 Ratchets (3 pc) in a storage tray

### BPRTR936SG 1/4" Drive Soft Grip Handle Quick-Release Ratchet (Blue-Point®)

- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Corrosion-resistant bi-mold cushion grips for improved comfort and performance
- Chrome finish for easy clean up

# RATCHETS, HANDLES AND ACCESSORIES (Blue-Point®)



## Ratchet Spinner (Blue-Point®) (1/4")

| Stock No. | Square Drive, inches   | Description   | A     | B      |
|-----------|------------------------|---|-------|--------|
| FSDR‡     | 1/4 Male to 1/4 Female | 1/4" External Drive/1/4" Internal Square Drive Finger Ratchet (Blue-Point®) | 1-1/8 | 1-7/16 |
| FSD14‡    | 3/8 Male to 1/4 Female | 3/8" Drive Male to 1/4" Drive Female Spinner Adaptor (Blue-Point®)          | 1     | 1-1/2  |
| FSD38‡    | 1/4 Male to 3/8 Female | 1/4" Drive Male to 3/8" Drive Female Spinner Adaptor (Blue-Point®)          | 1     | 1-1/2  |
| FSDR1‡    | 3/4 Male to 1/4 Female | 3/8" External Drive/1/4" Internal Square Drive Finger Ratchet (Blue-Point®) | 1-1/8 | 1-7/16 |
| BLPSD14   | 3/8 Male to 1/4 Female | 1/4" Drive Ratchet Spinner (Blue-Point®)                                    | 7/8   | 27/32  |

ASME®/ANSI® B107.10

### FSD3KT‡ 3 pc Spinner Adaptor Set (Blue-Point®)

- Includes FSD14 (3/8 male to 1/4 female), FSD38 (1/4 male to 3/8 female) and FSD1 (3/8 male to 3/8 male)

### FSDR‡ 1/4" External Drive/1/4" Internal Square Drive Finger Ratchet (Blue-Point®)

- Reversible finger ratchet; small size works great for extremely tight areas
- Aluminum knurled outer ring for sure grip
- 1/4" drive on one side and 1/4" hex drive on other side

## Breaker Bars (Blue-Point®) (1/4")



| Stock No. | Description               | A   | B | C   |
|-----------|---------------------------|-----|---|-----|
| BLPBB146  | 1/4" Drive 6" Breaker Bar | 5/8 | 6 | 3/8 |



BLPCGHD146

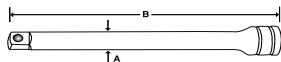
## Handled Drivers (Blue-Point®)

| Stock No.  | Length, inches | Blade Length, inches | Shank Dia., inches | Square Drive, inches |
|------------|----------------|----------------------|--------------------|----------------------|
| BLPCGHD146 | 6              | 2-1/2                | 5/16               | 1/4                  |



BLPTXK1.5

## Knurled Extensions (Blue-Point®)



| Stock No. | B       |
|-----------|---------|
| BLPTXK1.5 | 1-9/16  |
| BLPTXK2   | 2-3/32  |
| BLPTXK3   | 2-15/16 |
| BLPTXK4   | 4       |
| BLPTXK6   | 6       |

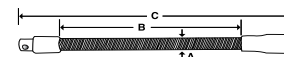
## Extra-Long Locking Extensions (Blue-Point®)

### 1/4" Drive 12" Extra-Long Locking Extension (Blue-Point®)

- Smooth, durable chrome finish
- Made from tough 6130 steel
- Secure socket retention
- Do not use with power or impact tools

| Stock No.   | Length, inches | Square Drive, inches |
|-------------|----------------|----------------------|
| BLPEXTL1412 | 12             | 1/4                  |
| BLPEXTL1418 | 18             | 1/4                  |
| BLPEXTL1424 | 24             | 1/4                  |

## Flexible Extensions (Blue-Point®)



| Stock No.  | A    | B     | C |
|------------|------|-------|---|
| BLPEXTF146 | 5/16 | 3-5/8 | 6 |



103TMXLB



## Locking Extensions, Chrome (Blue-Point®)

Set Contains:

| Stock No. | B  |   |
|-----------|----|---|
| TMXLBP4   | 4  | • |
| TMXLBP6   | 6  | • |
| TMXLBP10  | 10 | • |

Set shown includes storage tray.



BLPEXTL1412

BLPEXTL1418

BLPEXTL1424

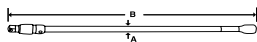


- Do not use chrome or industrial finish hand tools with impact drivers
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## RATCHETS, HANDLES AND ACCESSORIES (Blue-Point®)



YA515A



### Set Screw Locking Extensions (Blue-Point®)

| Stock No. | Finish | A   | B       |
|-----------|--------|-----|---------|
| YA515A    | Chrome | 1/2 | 1-11/16 |

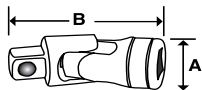
#### YA515A 1/4" Drive 1-11/16" Set Screw

##### Locking Extension (Blue-Point®)

- Allows easy and secure tool stacking
- Securely connects breaker bar, extensions and ratchets to socket and socket drivers for overhead work
- Sliding sleeve for easy removal



BLPUJ14



### Universal Joints, Chrome (Blue-Point®)

| Stock No. | A   | B     |
|-----------|-----|-------|
| BLPUJ14   | 5/8 | 1-1/2 |



T9TURBO

### Turbo T-Handle Speed Drivers (Blue-Point®)

| Stock No. | Description       | Handle Type    |
|-----------|-------------------|----------------|
| T9TURBO   | 1/4" Square Drive | Turbo T-Handle |
| TH10TURBO | 1/4" Hex          | Turbo T-Handle |

#### TURBOT103 3 pc 1/4" Drive Turbo T-Handle Set (Blue-Point®)

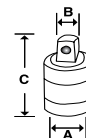
- T9TURBO (1/4" drive), TH10TURBO (1/4" hex) and F11TURBO (3/8" drive)
- Three pieces in storage tray



BLPAFM3814



BLPAFM1438



### Square Drive Adaptors (Blue-Point®)

| Stock No.  | Description                     | A   | B   |
|------------|---------------------------------|-----|-----|
| BLPAFM3814 | 3/8" Drive Square Drive Adaptor | 3/8 | 1/4 |
| BLPAFM1438 | 1/4" Drive Square Drive Adaptor | 1/4 | 3/8 |



BLPSM145



BLPSM149



BLPSM1412



BLPS1414



BLPS14716

### Shallow, mm, Chrome (Blue-Point®)

| mm  | 6          | Length, mm |
|-----|------------|------------|
| 4   | BLPSM144   | 24.8       |
| 4.5 | BLPSM144.5 | 24.8       |
| 5   | BLPSM145   | 24.8       |
| 5.5 | BLPSM145.5 | 24.8       |
| 6   | BLPSM146   | 24.8       |
| 7   | BLPSM147   | 24.8       |
| 8   | BLPSM148   | 24.8       |
| 9   | BLPSM149   | 24.8       |
| 10  | BLPSM1410  | 24.8       |
| 11  | BLPSM1411  | 24.8       |
| 12  | BLPSM1412  | 24.8       |
| 13  | BLPSM1413  | 24.8       |
| 14  | BLPSM1414  | 24.8       |

### Shallow, Inches, Chrome (Blue-Point®)

|       | 6          | Length, inches |
|-------|------------|----------------|
| 3/16  | BLPS14316  | 1              |
| 7/32  | BLPS14732  | 1              |
| 1/4   | BLPS1414   | 1              |
| 9/32  | BLPS14932  | 1              |
| 5/16  | BLPS14516  | 1              |
| 11/32 | BLPS141132 | 1              |
| 3/8"  | BLPS1438   | 1              |
| 7/16  | BLPS14716  | 1              |
| 1/2   | BLPS1412   | 1              |
| 9/16  | BLPS14916  | 1              |
| 5/8   | BLPS1458   | 1              |

# SOCKETS (Blue-Point®)

1/4" DRIVE TOOLS



BLPLSM145



BLPLSM1412



BLPLS1414



BLPLS1412

## Deep, mm, Chrome (Blue-Point®)

| mm | 6          | Length, mm |
|----|------------|------------|
| 4  | BLPLSM144  | 50         |
| 5  | BLPLSM145  | 50         |
| 6  | BLPLSM146  | 50         |
| 7  | BLPLSM147  | 50         |
| 8  | BLPLSM148  | 50         |
| 9  | BLPLSM149  | 50         |
| 10 | BLPLSM1410 | 50         |
| 11 | BLPLSM1411 | 50         |
| 12 | BLPLSM1412 | 50         |
| 13 | BLPLSM1413 | 50         |
| 14 | BLPLSM1414 | 50         |

## Deep, Inches, Chrome (Blue-Point®)

|       | 6           | Length, inches |
|-------|-------------|----------------|
| 3/16  | BLPLS14316  | 1-31/32        |
| 7/32  | BLPLS14732  | 1-31/32        |
| 1/4   | BLPLS1414   | 1-31/32        |
| 9/32  | BLPLS14932  | 1-31/32        |
| 5/16  | BLPLS14516  | 1-31/32        |
| 11/32 | BLPLS141132 | 1-31/32        |
| 3/8"  | BLPLS1438   | 1-31/32        |
| 7/16  | BLPLS14716  | 1-31/32        |
| 1/2   | BLPLS1412   | 1-31/32        |
| 9/16  | BLPLS14916  | 1-31/32        |
| 5/8   | BLPLS1458   | 1-31/32        |

## 8-Point, Inches, Chrome (Blue-Point®)

|      | 8          | Length, inches |
|------|------------|----------------|
| 1/4  | BLPS81414  | 1              |
| 3/8" | BLPS81438  | 1              |
| 5/16 | BLPS814516 | 1              |



BLPS81414



122TSTY

## Twist Impact, inches/mm

| #                  | Stock No. | Length, inches (mm) | Set Contains: |
|--------------------|-----------|---------------------|---------------|
| 4.50 mm            | TSTY45    | 1 (25.4)            | •             |
| 4.75 mm and 3/16"  | TSTY47    | 1 (25.4)            | •             |
| 5.00 mm            | TSTY50    | 1 (25.4)            | •             |
| 5.25 mm            | TSTY52    | 1 (25.4)            | •             |
| 5.50 mm            | TSTY55    | 1 (25.4)            | •             |
| 5.75 mm            | TSTY57    | 1 (25.4)            | •             |
| 6.00 mm            | TSTY60    | 1 (25.4)            | •             |
| 6.25 mm and 1/4"   | TSTY62    | 1 (25.4)            | •             |
| 6.50 mm            | TSTY65    | 1 (25.4)            | •             |
| 6.75 mm            | TSTY67    | 1 (25.4)            | •             |
| 7.00 mm            | TSTY70    | 1 (25.4)            | •             |
| 7.25 mm and 9/32"  | TSTY72    | 1 (25.4)            | •             |
| 7.50 mm            | TSTY75    | 1 (25.4)            | •             |
| 7.75 mm            | TSTY77    | 1 (25.4)            | •             |
| 8.00 mm and 5/16"  | TSTY80    | 1 (25.4)            | •             |
| 8.25 mm            | TSTY82    | 1 (25.4)            | •             |
| 8.50 mm            | TSTY85    | 1 (25.4)            | •             |
| 8.75 mm and 11/32" | TSTY87    | 1 (25.4)            | •             |
| 9.00 mm            | TSTY90    | 1 (25.4)            | •             |
| 9.25 mm            | TSTY92    | 1 (25.4)            | •             |
| 9.50 mm and 3/8"   | TSTY95    | 1 (25.4)            | •             |
| 10.00 mm           | TSTY100   | 1 (25.4)            | •             |

Set Contains:

122TSTY



TSTY70



• Do not use chrome or industrial finish hand tools with impact drivers  
• Read safety precautions on pages W1 to W4

## TORX® SOCKETS (Blue-Point®)



BLPTE144

### TORX®/External, Chrome (Blue-Point®)

| #  | Stock No. | Length, inches |
|----|-----------|----------------|
| E4 | BLPTE144  | 1              |
| E5 | BLPTE145  | 1              |
| E6 | BLPTE146  | 1              |
| E7 | BLPTE147  | 1              |
| E8 | BLPTE148  | 1              |

## TORX® BIT SOCKETS (Blue-Point®)



BLPT1410



BLPTL1410

### TORX®/Standard (Blue-Point®)

| #   | Stock No. | A      |
|-----|-----------|--------|
| T6  | BLPT146   | 1-7/16 |
| T7  | BLPT147   | 1-7/16 |
| T8  | BLPT148   | 1-7/16 |
| T9  | BLPT149   | 1-7/16 |
| T10 | BLPT1410  | 1-7/16 |
| T15 | BLPT1415  | 1-7/16 |
| T20 | BLPT1420  | 1-7/16 |
| T25 | BLPT1425  | 1-7/16 |
| T27 | BLPT1427  | 1-7/16 |
| T30 | BLPT1430  | 1-7/16 |

### TORX®/Long (Blue-Point®)

| #   | Stock No. | A       |
|-----|-----------|---------|
| T6  | BLPTL146  | 3-15/16 |
| T7  | BLPTL147  | 3-15/16 |
| T8  | BLPTL148  | 3-15/16 |
| T9  | BLPTL149  | 3-15/16 |
| T10 | BLPTL1410 | 3-15/16 |
| T15 | BLPTL1415 | 3-15/16 |
| T20 | BLPTL1420 | 3-15/16 |
| T25 | BLPTL1425 | 3-15/16 |
| T27 | BLPTL1427 | 3-15/16 |
| T30 | BLPTL1430 | 3-15/16 |



BLPTORX1410

### ★ TORX®/Stubby, Chrome (Blue-Point®) (1/4")

Set Contains:

| #   | Stock No. | A   |   |
|-----|-----------|-----|---|
| T10 | BLPTS1410 | 3/4 | • |
| T15 | BLPTS1415 | 3/4 | • |
| T20 | BLPTS1420 | 3/4 | • |
| T25 | BLPTS1425 | 3/4 | • |
| T27 | BLPTS1427 | 3/4 | • |
| T30 | BLPTS1430 | 3/4 | • |
| T40 | BLPTS1440 | 3/4 | • |
| T45 | BLPTS1445 | 3/4 | • |
| T50 | BLPTS1450 | 3/4 | • |

Set shown includes storage tray.

|     | Stock No. | A   |   |
|-----|-----------|-----|---|
| T47 | BLPTS1447 | 3/4 | • |

T47 is not a TORX® licensed product.

### ★ TORX®/Tamper-Resistant, Stubby (Blue-Point®) (1/4")



BLPTS1410TP

| #    | Stock No.   | A   |
|------|-------------|-----|
| TP8  | BLPTS148TP  | 3/4 |
| TP10 | BLPTS1410TP | 3/4 |
| TP15 | BLPTS1415TP | 3/4 |
| TP20 | BLPTS1420TP | 3/4 |
| TP25 | BLPTS1425TP | 3/4 |
| TP27 | BLPTS1427TP | 3/4 |
| TP30 | BLPTS1430TP | 3/4 |
| TP40 | BLPTS1440TP | 3/4 |
| TP45 | BLPTS1445TP | 3/4 |
| TP50 | BLPTS1450TP | 3/4 |



## TORX® BIT SOCKETS (Blue-Point®)



### ★ TORX®/Tamper-Resistant, Standard (Blue-Point®) (1/4")

| #   | Stock No.  | A      |
|-----|------------|--------|
| T6  | BLPT146TP  | 1-7/16 |
| T7  | BLPT147TP  | 1-7/16 |
| T8  | BLPT148TP  | 1-7/16 |
| T9  | BLPT149TP  | 1-7/16 |
| T10 | BLPT1410TP | 1-7/16 |
| T10 | BLPT1440TP | 1-7/16 |
| T15 | BLPT1415TP | 1-7/16 |
| T20 | BLPT1420TP | 1-7/16 |
| T25 | BLPT1425TP | 1-7/16 |
| T27 | BLPT1427TP | 1-7/16 |
| T30 | BLPT1430TP | 1-7/16 |



### ★ TORX®/Tamper-Resistant, Long, Chrome (Blue-Point®) (1/4")

| #   | Stock No.   | A       |
|-----|-------------|---------|
| T6  | BLPTL146TP  | 3-15/16 |
| T7  | BLPTL147TP  | 3-15/16 |
| T8  | BLPTL148TP  | 3-15/16 |
| T9  | BLPTL149TP  | 3-15/16 |
| T10 | BLPTL1410TP | 3-15/16 |
| T15 | BLPTL1415TP | 3-15/16 |
| T20 | BLPTL1420TP | 3-15/16 |
| T25 | BLPTL1425TP | 3-15/16 |
| T27 | BLPTL1427TP | 3-15/16 |
| T30 | BLPTL1430TP | 3-15/16 |

## METRIC HEX BIT SOCKETS (Blue-Point®)



### Hex/Stubby, mm, Chrome (Blue-Point®) (1/4")

| mm  |            | A     |
|-----|------------|-------|
| 2   | BLPHSM142  | 19.05 |
| 2.5 | BLPHSM1425 | 19.05 |
| 3   | BLPHSM143  | 19.05 |
| 4   | BLPHSM144  | 19.05 |
| 5   | BLPHSM145  | 19.05 |
| 6   | BLPHSM146  | 19.05 |
| 7   | BLPHSM147  | 19.05 |
| 8   | BLPHSM148  | 19.05 |
| 9   | BLPHSM149  | 19.05 |
| 10  | BLPHSM1410 | 19.05 |

Set shown includes storage tray.

### BLPHEXS1418 18 pc 1/4" Drive SAE/Metric Stubby Hex Bit Socket Set (Blue-Point®)

- Includes (9) SAE Stubby Hex Bit Sockets (3/32–3/8") and (9) Metric Stubby Hex Bit Sockets (2–10 mm)



### Hex/Standard, mm, Chrome (Blue-Point®) (1/4")

| mm  |          | Length, mm |
|-----|----------|------------|
| 2.5 | BLPH1425 | 34.9       |
| 3   | BLPH123  | 60.3       |
| 4   | BLPH124  | 60.3       |
| 5   | BLPH125  | 60.3       |
| 6   | BLPH126  | 60.3       |
| 6   | BLPH127  | 60.3       |

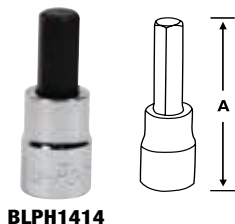


### Hex/Long, mm (Blue-Point®)



| mm |          | Length, mm |
|----|----------|------------|
| 4  | BLPHL144 | 100        |
| 5  | BLPHL145 | 100        |
| 6  | BLPHL146 | 100        |

## HEX BIT SOCKETS (Blue-Point®)

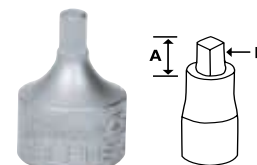
Hex/Standard, Inches, Chrome (Blue-Point®) (1/4")





BLPH1414

|  |  | A      |
|---|---|--------|
| 1/8   | BLPH1418  | 1-7/16 |
| 9/64  | BLPH14964   | 1-7/16 |
| 5/32  | BLPH14532   | 1-7/16 |
| 3/16  | BLPH14316   | 1-7/16 |
| 7/32  | BLPH14732   | 1-7/16 |
| 1/4   | BLPH1414  | 1-7/16 |
| 5/16  | BLPH14516   | 1-7/16 |

Hex/Stubby, Inches, Chrome (Blue-Point®) (1/4")





BLPHS1414

|  |  | A   |
|--|---|-----|
| 5/64   | BLPHS14564  | 3/4 |
| 3/32   | BLPHS14332  | 3/4 |
| 7/64   | BLPHS14764  | 3/4 |
| 1/8  | BLPHS1418   | 3/4 |
| 5/32   | BLPHS14532  | 3/4 |
| 3/16   | BLPHS14316  | 3/4 |
| 7/32   | BLPHS14732  | 3/4 |
| 1/4  | BLPHS1414   | 3/4 |
| 5/16   | BLPHS14516  | 3/4 |
| 3/8  | BLPHS1438   | 3/4 |



BLPHL14532

Hex/Long, inches (Blue-Point®)

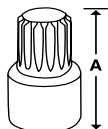
|  |  | Length, inches |
|---|---|----------------|
| 1/8   | BLPHL1418   | 3-15/16        |
| 3/16  | BLPHL14316  | 3-15/16        |
| 5/32  | BLPHL14532  | 3-15/16        |


## TRIPLE SQUARE BIT SOCKETS (Blue-Point®)

Triple Square/Stubby, XZN, Chrome (Blue-Point®) (1/4")



BLPXZN146



|  | Stock No.  | A  |
|---|------------|----|
| 4   | BLPXZN144  | 27 |
| 5   | BLPXZN145  | 27 |
| 6   | BLPXZN146  | 27 |
| 8   | BLPXZN148  | 27 |
| 10  | BLPXZN1410 | 27 |
| 12  | BLPXZN1412 | 27 |

## POZIDRIV® BIT SOCKETS (Blue-Point®)

Pozidriv®/Standard, Chrome (Blue-Point®) (1/4")

1/4" Drive Pozidriv® #0 Standard Socket Driver (Blue-Point®)

- Manufactured from high-grade steel alloy
- Features a lifetime warranty and exceeds ANSI standards
- All Blue-Point® socket drivers are fully warranted; no need to replace bits




BLPPD140

| Size | Stock No. | A       |
|------|-----------|---------|
| #0   | BLPPD140  | 1-27/32 |
| #1   | BLPPD141  | 1-27/32 |
| #2   | BLPPD142  | 1-27/32 |
| #3   | BLPPD143  | 1-27/32 |

# FLAT TIP BIT SOCKETS (Blue-Point®)

1/4" DRIVE TOOLS

## — Flat Tip/Standard, Chrome (Blue-Point®) (1/4")

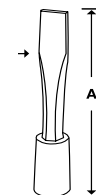
|                 |  | Stock No.  | A      |
|-----------------|---|------------|--------|
| Standard Length | 5/32  | BLPFT14532 | 1-7/16 |
|                 | 7/32  | BLPFT14732 | 1-7/16 |
|                 | 9/32  | BLPFT14932 | 1-7/16 |
| Short           | 1/4   | BLPFS1414  | 3/4    |
|                 | 3/8   | BLPFS1438  | 3/4    |



BLPFT14732




BLPFS1414



## PHILLIPS® TIP BIT SOCKETS

## + PHILLIPS®/Standard, Chrome (Blue-Point®) (1/4")

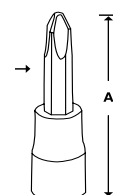
|                 |  | Stock No. | A      |
|-----------------|---|-----------|--------|
| Standard Length | #0  | BLPP140   | 1-7/16 |
|                 | #1  | BLPP141   | 1-7/16 |
|                 | #2  | BLPP142   | 1-7/16 |
|                 | #0  | BLPP143   | 1-7/16 |
| Stubby          | #1  | BLPPS141  | 3/4    |
|                 | #2  | BLPPS142  | 3/4    |



BLPP140



BLPPS141



## HEX BIT SOCKETS

### Hex/Stubby, Tamper-Resistant, SAE, Chrome (Blue-Point®) (1/4")

- All drivers have a hole in the driver tip for tamper proof hex fasteners
- Stubby one-piece impact quality drivers
- Satin chrome plated with bold marking for easy identification
- Heavy-gauge vacuum-formed plastic tray
- All stubby hex drivers are 3/4" long with 1/4" square drive
- S2 alloy steel—the strongest, hardest drivers available
- Heat treated to 58-62 RC
- Limited lifetime warranty





BLPTHS1414


### Hex/Stubby, Tamper-Resistant, mm, Chrome (Blue-Point®) (1/4")

- All drivers have a hole in the driver tip for tamper-proof hex fasteners
- Stubby one-piece impact quality drivers
- Satin chrome plated with bold marking for easy identification
- Heavy-gauge vacuum-formed plastic tray
- All stubby hex drivers are 3/4" long with 1/4" square drive
- S2 alloy steel—the strongest, hardest drivers available
- Heat treated to 58-62 RC
- Limited lifetime warranty



BLPTHSM1410

|  |  | A   |
|---|---|-----|
| 1/4   | BLPTHS1414  | 3/4 |
| 1/8   | BLPTHS1418  | 3/4 |
| 3/16  | BLPTHS14316   | 3/4 |
| 3/32  | BLPTHS14332   | 3/4 |
| 3/8"  | BLPTHS1438  | 3/4 |
| 5/16  | BLPTHS14516   | 3/4 |
| 5/32  | BLPTHS14532   | 3/4 |
| 7/32  | BLPTHS14732   | 3/4 |
| 7/64  | BLPTHS14764   | 3/4 |

|  | Stock No.   | Length, mm |
|--|-------------|------------|
| 2  | BLPTHSM142  | 19.05      |
| 2.5  | BLPTHSM1425 | 19.05      |
| 3  | BLPTHSM143  | 19.05      |
| 4  | BLPTHSM144  | 19.05      |
| 5  | BLPTHSM145  | 19.05      |
| 6  | BLPTHSM146  | 19.05      |
| 7  | BLPTHSM147  | 19.05      |
| 8  | BLPTHSM148  | 19.05      |
| 10   | BLPTHSM1410 | 19.05      |



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## COMBINATION BIT SOCKET SETS (Blue-Point®)



**BLPBSS40**

### Combination Bit Socket Sets (Blue-Point®)

#### **BLPBSS40 40 pc 1/4" Drive Stubby Bit Socket Set (Blue-Point®)**

- Includes (10) Metric Bit Sockets (2–10 mm)
- Includes (10) SAE Bit Sockets (5/64–3/8")
- Includes (10) TORX® Tamper-Resistant Bit Sockets (TP8–TP50)
- Includes (6) XZN Triple Square Bit Sockets (XZN4–XZN12)
- Includes (2) PHILLIPS® Bit Sockets (#1 and #2)
- Includes (2) Flat Tip Bit Sockets (1/4 and 3/8")
- Includes storage case



**BLPHSSC30**

### 1/2" Combination Bit Socket Sets (Blue-Point®)

#### **BLPHSSC30 30 pc Combination Drive Hex Bit Socket Driver Set (Blue-Point®)**

- Includes (30) Hex Bit Socket Drivers in a storage case
- 1/4" drive components include (6) SAE Hex Bit Sockets (1/8–1/4") and (5) Metric Hex Bit Sockets (2.5–6 mm)
- 3/8" drive components include (5) SAE Hex Bit Sockets (7/32–7/16") and (5) Metric Hex Bit Sockets (6–10 mm)
- 1/2" drive components include (4) SAE Hex Bit Sockets (1/2–3/4") and (5) Metric Hex Bit Sockets (10–19 mm)



**BLPTSSC43**

#### **BLPTSSC43 43 pc Combination Drive TORX® Socket and TORX® Bit Socket Driver Set (Blue-Point®)**

- (5) 1/4" Drive External TORX® Sockets (E4–E8)
- (10) Tamper-Resistant TORX® Bit Sockets (T6–T30)
- (10) Tamper-Resistant TORX® Long Bit Sockets (T6–T30)
- (4) 3/8" Drive External TORX® Sockets (E10–E16)
- (3) Tamper-Resistant TORX® Bit Sockets (T40, T45 and T50)
- (3) Tamper-Resistant TORX® Long Bit Sockets (T40, T45 and T50)
- (4) 1/2" Drive External TORX® Sockets (E18–E24)
- (2) Tamper-Resistant TORX® Bit Sockets (T55 and T60)
- (2) Tamper-Resistant TORX® Long Bit Sockets (T55 and T60)
- (1) storage case



**BLPTH87**

#### **BLPTH87 87 pc TORX® and Hex Bit Socket Driver Set (Blue-Point®)**

- Includes (87) TORX® and Hex Bit Socket Drivers (Blue-Point®)
- 1/4" drive components include (5) External TORX® Sockets (E4–E8), (10) TORX® Bit Sockets (T6–T30), (10) Long TORX® Bit Sockets (T6–T30), (5) Metric Hex Bit Sockets (2.5–6 mm), (3) Long Metric Hex Bit Sockets (4–6 mm), (6) Hex Bit Sockets (1/8–1/4") and (3) Long Hex Bit Sockets (1/8–3/16")
- 3/8" drive components include (4) External TORX® Sockets (E10–E16), (3) TORX® Bit Sockets (T40–T50), (3) Long TORX® Bit Sockets (T40–T50), (5) Metric Hex Bit Sockets (6–10 mm), (4) Long Metric Hex Bit Sockets (7–10 mm), (4) Hex Bit Sockets (7/32–3/8") and (4) Long Hex Bit Sockets (7/32–3/8")
- 1/2" drive components include (4) External TORX® Sockets (E18–E24), (2) TORX® Bit Sockets (T55, T60), (2) Long TORX® Bit Sockets (T55, T60), (5) Metric Hex Bit Sockets (10–19 mm) and (5) Hex Bit Sockets (7/16–3/4")

## General Service Sets (Blue-Point®)

### BLPBTWKIT 25 pc 1/4" Drive Socket/Bit Ratchet Set (Blue-Point®)

- Includes: (10) Metric Shallow Sockets (4–13 mm), (13) assorted Insert Bits, (1) 4" Extension and (1) 6" Ratcheting Bit Driver
- Great set for use on the road or at home, utilizing bits and sockets for the most common fastener applications
- Multifunction ratcheting tool drives both 1/4" sockets and 1/4" insert bits without need to utilize adaptors
- Push-button release holds sockets securely in place
- Low-profile, easy-action reverse lever won't get in the way
- 10° offset box head provides knuckle clearance
- Tough, durable nickel-chrome looks great and cleans up easily
- Compact storage case with foam insert securely holds tools in place and stores great in tight places like glove boxes, saddlebags, etc.



BLPBTWKIT

### BLPGSS1427 27 pc 1/4" Drive General Service Set (Blue-Point®)

- Great for use at home or on the road
- Set offers a full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Ratchet and Handle Driver both available for a variety of jobs
- Compact case fits in shallow Snap-on® toolbox drawer
- (11) SAE (3/16"–5/8") 6-point Shallow Sockets
- (11) SAE (3/16–9/16") 6-point Deep Sockets
- (3) ratchet/socket accessories
- Quick-Release Ratchet
- Spinner Handle

#### BLPGSS1427PB Case for BLPGSS1427 (Blue-Point®)



BLPGSS1427

### BLPGSS1438 38 pc 1/4" Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (11) SAE (3/16–5/8") (11) Metric (4–14 mm) 6-point Shallow Sockets, (4) SAE Hex Bit Sockets (9/64, 3/16, 7/32 and 1/4"), (3) Flat Tip Bit Sockets (5/32, 3/16 and 1/4"), (2) PHILLIPS® Tip Bit Sockets (#1 and #2), (5) ratchet/socket accessories, Quick-Release Ratchet and Spinner Handle

#### BLPGSS1438PB Case for BLPGSS1438 (Blue-Point®)



BLPGSS1438

### BLPGSSM1427 27 pc 1/4" Drive Metric General Service Set (Blue-Point®)

- Great for use at home or on the road
- Set offers a full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Ratchet and Handle Driver both available for a variety of jobs
- Compact case fits in shallow Snap-on® toolbox drawer
- Includes: (11) Metric (4–14 mm) 6-point Shallow Sockets, (11) Metric (4–14 mm) 6-point Deep Sockets, (3) ratchet/socket accessories, Quick-Release Ratchet, Spinner Handle and BLPGSSM1427PB storage case

#### BLPGSSM1427B Case for BLPGSSM1427 General Service Set (Blue-Point®)

- Replacement Case



BLPGSSM1427



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## GENERAL SERVICE SETS (Blue-Point®)



BLPGSS1451A



BLPGSS1462



BLPGSSC155



BLPGSSC100B

### General Service Sets (Blue-Point®)

#### BLPGSS1451A 51 pc 1/4" Drive SAE/Metric

##### General Service Socket Set (Blue-Point®)

- Includes (10) SAE (3/16–9/16"), (13) Metric (4–14 mm) standard sockets, (3) SAE (1/4, 5/16 and 3/8") 6-point Sockets, (6) TORX® Bit Sockets (T8–T27), (6) SAE Hex Bit Sockets (1/8–5/16"), (3) Flat Tip Bit Sockets (5/32, 7/32 and 9/32"), (3) PHILLIPS® Bit Sockets (#0, #1 and #2), (6) ratchet/socket accessories and Ratchet
- Includes storage case

#### BLPGSS1462 62 pc 1/4" Drive SAE and Metric

##### General Service Set (Blue-Point®)

- Small and compact general service set is great for use at home or on the road
- Full range of deep and shallow sockets for the most common fastener applications
- Ratchet and Handle Driver both available for a variety of jobs
- Set includes: (11) SAE (3/16–5/8") and (11) Metric (4–14 mm) Standard Sockets, (11) SAE (3/16–5/8") and (11) Metric (4–14 mm) Deep Sockets, (1) Bit Holder, (4) Hex Bits (9/64, 3/16, 7/32, 1/4"), (3) Flat Tip Bits (5/32, 3/16, 1/4"), (2) PHILLIPS® Bits (#1, #2), (7) Ratchet/Socket Accessories, (1) Ratchet
- Removable foam divider doubles as a kneeling pad
- Steel reinforced hinges on storage case
- Tools are made of high-grade steel alloy, feature a lifetime warranty and exceed ANSI standards

#### BLPGSS1462PB Storage Case (Blue-Point®)

- Storage case for BLPGSS1462 general service set

#### BLPGSSC155 155 pc Combination Drive SAE/Metric

##### General Service Set (Blue-Point®)

- Includes (1/4" drive): (10) SAE (3/16–9/16") and (13) Metric (4–14 mm) Standard Sockets, (10) SAE (3/16–9/16") and (11) Metric (4–14 mm) Deep Sockets, (20) Assorted 1/4" Hex Bits with Bit Holder, (5) Ratchet/Socket Accessories, (1) Quick Release Ratchet
- Includes (3/8" Drive) (13) SAE (1/4–1") and (19) Metric (6–24 mm) Standard Sockets, (11) SAE (3/8–1") and (15) Metric (10–24 mm) Deep Sockets, (11) External TORX® Sockets (E4–E20), (2) Spark Plug Sockets (5/8, 13/16") (3) Metric Hex Socket Drivers (7, 8 and 10 mm), (4) Tamper-Resistant TORX® Socket Drivers (T40, T45, T50, T55), (5) ratchet/socket accessories, (1) Quick-Release Ratchet, (1) Spinner Handle
- Durable storage case
- Removable foam divider that doubles as a kneeling pad
- Double-injected slip-resistant Santoprene handles
- Steel reinforced hinges on storage case
- Tools are made of high-grade steel alloy, feature a lifetime warranty and exceed ANSI standards

#### BLPGSSC155PB Storage Case (Blue-Point®)

- Storage case for BLPGSSC100 general service set

#### BLPGSSC100B 100 pc 3/8" Drive SAE/Metric

##### General Service Set (Blue-Point®)

- Set covers most popular sizes of wrenches and sockets
- Tools have been newly designed and meet Snap-on® tool standards of quality
- High-quality chrome plating looks great and provides a durable, easy-to-clean finish
- Durable blow-molded case
- Removable foam divider doubles as a kneeling pad
- Lifetime warranty
- Set includes (23) SAE and Metric 1/4" Drive Standard Depth Sockets, (32) SAE and Metric 3/8" Drive Sockets, (11) External TORX® Sockets, (19) SAE and Metric Combination Wrenches, (7) 1/4" Drive and (8) 3/8" Drive accessories



TALK ABOUT A JACK-OF-ALL-TRADES, OUR 3/8" DRIVE TOOLS ARE VERSATILE ENOUGH TO HANDLE MOST ANY APPLICATION. POWERFUL AND DURABLE ENOUGH TOO, THANKS TO UNCOMPROMISING ENGINEERING AND MANUFACTURING.

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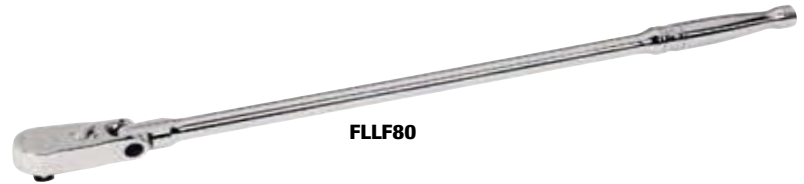
**THEY WORK  
BETTER  
BECAUSE  
THEY'RE MADE  
BETTER.**

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Snap-on® ratchets are made from our proprietary alloy steel and feature precision-crafted gears, springs and pawls. Dual 80° Technology arms you with an 80-tooth gear for more power in less space, while a compact ratchet head and smaller ratcheting arc provide smoother movement and torque transfer. And our industry-leading Flank Drive® sockets deliver exclusive advantages like up to 20% more torque, reduced slippage, and thin wall design for better accessibility. Our FDX® sockets even boast up to 50% more turning power on damaged fasteners.

# 3/8" DRIVE TOOLS

# RATCHETS

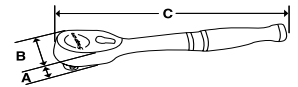


## Dual 80® Technology Ratchets (3/8")

Stop, Turn and Listen. A smoother, stronger ratchet. Try them to believe them.

Dual 80® Technology Ratchets Feature:

- 80-tooth gear
- Seven teeth in contact with gear to provide strength and durability



| Stock No.      | Description                               | Gear Teeth | Swing Arc | A     | B     | C       | Repair Kit      | Replacement Cover Plate | Joint Repair Kit   | Replacement Grip | Locking Mechanism Repair Kit |
|----------------|---|------------|-----------|-------|-------|---------|-----------------|-------------------------|--------------------|------------------|------------------------------|
| <b>FK80***</b> | Stubby Handle Ratchet                     | 80         | 4.5       | 9/16  | 1-1/4 | 4-3/16  | <b>RKRF80</b>   | <b>F80-2</b>            | —                  | —                | —                            |
| <b>F80</b>     | Standard Handle Ratchet                   | 80         | 4.5       | 9/16  | 1-1/4 | 7-7/16  | <b>RKRF80</b>   | <b>F80-2</b>            | —                  | —                | —                            |
| <b>GF80</b>    | Standard Industrial Handle Ratchet        | 80         | 4.5       | 9/16  | 1-1/4 | 7-7/16  | <b>RKRF80</b>   | <b>F80-2</b>            | —                  | —                | —                            |
| <b>FL80</b>    | Long Handle Ratchet                       | 80         | 4.5       | 9/16  | 1-1/4 | 10-5/16 | <b>RKRF80</b>   | <b>F80-2</b>            | —                  | —                | —                            |
| <b>FLL80</b>   | Extra-Long Handle Ratchet                 | 80         | 4.5       | 9/16  | 1-1/4 | 17-1/2  | <b>RKRF80</b>   | <b>F80-2</b>            | —                  | —                | —                            |
| <b>FKF80A*</b> | Stubby Handle Flex Head Ratchet           | 80         | 4.5       | 9/16  | 1-1/4 | 4-3/4   | <b>RKRF80</b>   | <b>F80-2</b>            | <b>RKRFLF80AJT</b> | —                | —                            |
| <b>FF80A*</b>  | Standard Handle Flex Head Ratchet         | 80         | 4.5       | 9/16  | 1-1/4 | 8-3/8   | <b>RKRF80</b>   | <b>F80-2</b>            | <b>RKRFLF80AJT</b> | —                | —                            |
| <b>FBF80A*</b> | Standard Bent Handle Flex Head Ratchet    | 80         | 4.5       | 9/16  | 1-1/4 | 11-1/4  | <b>RKRF80</b>   | <b>F80-2</b>            | <b>RKRFLF80AJT</b> | —                | —                            |
| <b>FLF80A</b>  | Long Handle Flex Head Ratchet             | 80         | 4.5       | 9/16  | 1-1/4 | 11-1/2  | <b>RKRF80</b>   | <b>F80-2</b>            | <b>RKRFLF80AJT</b> | —                | —                            |
| <b>FLLF80</b>  | Extra-Long Handle Flex Head Ratchet       | 80         | 4.5       | 11/16 | 1-3/4 | 18      | <b>RKRFLF80</b> | <b>F80-2</b>            | <b>RKRFLF80AJT</b> | —                | —                            |
| <b>FSLF80</b>  | Speeder Handle Flex Head                  | 80         | 4.5       | 9/16  | 1-1/4 | 13-1/2  | <b>RKRF80</b>   | <b>F80-2</b>            | <b>RKRFLF80AJT</b> | —                | —                            |
| <b>FX80A**</b> | Standard Handle Locking Flex Head Ratchet | 80         | 4.5       | 9/16  | 1-1/4 | 11-1/2  | <b>RKRF80</b>   | <b>F80-2</b>            | <b>RKRFLF80AJT</b> | —                | <b>RKRFX936ALM</b>           |
| <b>F80MP</b>   | Multi-Position Head Ratchet               | 80         | 4.5       | 9/16  | 1-1/4 | 11      | <b>RKRF80</b>   | <b>F80-2</b>            | —                  | —                | —                            |

ASME®/ANSI® B107.10

\*Uses RKRF841JT Flex Joint Repair Kit

\*\*Uses RKRF841JT Flex Joint Repair Kit and RKRF936ALM Locking Mechanism Repair Kit

\*\*\*ASME®/ANSI® B107.10 with exception of the length



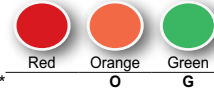


## Dual 80® Technology Soft Grip Handle Ratchets, Chrome (3/8")

- **LOW HEIGHT:** Snap-on® sockets and ratchets together have the lowest height on the market; improved accessibility in constrained spaces
- **FLEXIBLE:** Screw-style joint design; repairable, adjustable, maximizes joint strength and strength for longer life
- **DURABLE:** Made with special alloy steel; nickel-chrome plated; corrosion-resistance and strength for longer life
- **LEVERAGE:** Long contoured handle; comfortable with increased leverage
- **LASTING:** Sealed head; keeps dirt out and lubricants in; longer life
- **DUAL 80® TECHNOLOGY:** Dual pawls and 80-tooth gear; smaller ratcheting arc and more power in less lateral space
- **ACCESSIBILITY:** 80-tooth gear; 25% less ratcheting arc; requires less arc to engage the next gear tooth; gets into tight spaces
- **POWERFUL:** Dual pawls; seven teeth in contact with the gears; smooth and powerful turning force



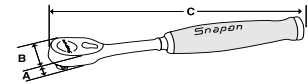
### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## 3/8" Drive Dual 80® Technology Soft Grip Standard Handle Ratchet

- 9-9/16" length
- Seven teeth in contact with gear to provide strength and durability
- Dual 80® Technology ratchet has 25% less ratcheting arc than our closest competitor and requires the least amount of arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



| Stock No. | Description   | Gear Teeth | Swing Arc | A     | B     | C        | Repair Kit | Replacement Cover Plate | Joint Repair Kit | Replacement Grip | Locking Mechanism Repair Kit |
|-----------|---|------------|-----------|-------|-------|----------|------------|-------------------------|------------------|------------------|------------------------------|
| FH80*     | Standard Red Soft Grip Handle Ratchet                   | 80         | 4.5       | 9/16  | 1-1/4 | 9-1/2    | RKRF80     | F80-2                   | —                | FH936-12         | —                            |
| FHL80*    | Long Soft Grip Handle                                   | 80         | 4.5       | 9/16  | 1-1/4 | 12-1/2   | RKRF80     | F80-2                   | —                | FH936-12         | —                            |
| FHLL80*   | Extra-Long Soft Grip Handle                             | 80         | 4.5       | 9/16  | 1-1/4 | 18-3/4   | RKRF80     | F80-2                   | —                | FH936-12         | —                            |
| FHF80A*†  | Standard Red Soft Grip Handle Flex Head Ratchet         | 80         | 4.5       | 9/16  | 1-1/4 | 10-3/8   | RKRF80     | F80-2                   | RKRFLF80AJT      | FH80-12          | —                            |
| FHBF80A*  | Standard Bent Red Soft Grip Handle Flex Head Ratchet    | 80         | 4.5       | 9/16  | 1-1/4 | 13-3/8   | RKRF80     | F80-2                   | RKRFLF80AJT      | —                | —                            |
| FHOF80A*† | Standard Offset Red Soft Grip Handle Flex Head Ratchet  | 80         | 4.5       | 9/16  | 1-1/4 | 9-15/16  | RKRF80     | F80-2                   | RKRFLF80AJT      | FH80-12          | —                            |
| FHLF80A*  | Long Soft Grip Handle Flex Head                         | 80         | 4.5       | 9/16  | 1-1/4 | 13-11/16 | RKRF80     | F80-2                   | RKRFLF80AJT      | FH936-12         | —                            |
| FHLLF80*  | Extra-Long Soft Grip Handle Flex-Head Quick-Release     | 80         | 4.5       | 11/16 | 1-3/4 | 19-1/2   | RKRFLLF80  | F80-2                   | RKRFLF80AJT      | FH936-12         | —                            |
| FHX80A*†  | Standard Red Soft Grip Handle Locking Flex Head Ratchet | 80         | 4.5       | 9/16  | 1-1/4 | 11-15/16 | RKRF80     | F80-2                   | RKRFLF80AJT      | FH80-12          | RKRFX936ALM                  |
| FH80MP†   | Multi-Position Head Ratchet                             | 80         | 4.5       | 9/16  | 1-1/4 | 12-1/4   | RKRF80     | F80-2                   | —                | FH80-12          | —                            |

ASME®/ANSI® B107.10

\*†FH80-12 3/8" Drive Soft Grip Replacement Handle



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## RATCHETS



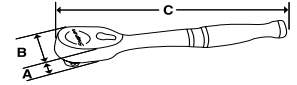
FC72



FCF72

### Dual 80® Technology Compact Head Ratchets (3/8")

- Compact head design offers greater accessibility
- Swivel head ratchets provide a variety of ratcheting positions



| Stock No. | Description               | Gear Teeth | Swing Arc | A    | B     | C      | Repair Kit |
|-----------|---------------------------|------------|-----------|------|-------|--------|------------|
| FC72      | Compact Head Ratchet      | 72         | 5         | 7/16 | 15/16 | 4-7/16 | RKRFC72    |
| FCF72     | Compact Flex Head Ratchet | 72         | 5         | 7/16 | 15/16 | 6-1/4  | RKRFC72    |

ASME®/ANSI® B107.10



FR80



FRLL80



FRSLF80



FHR80



FHRLF80A



FRLF80A



FRX80A



FHRX80A

### Quick-Release Ratchets (3/8")

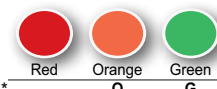
#### 3/8" Drive Dual 80® Technology Soft Grip Standard Handle Quick-Release Ratchet

- 80-tooth gear for 4.5° of swing arc
- Seven teeth in contact with gear to provide strength and durability
- Quick-release has a positive locking feature to hold socket securely in place when needed and push button for easy removal
- Sealed head keeps dirt and other contaminants out of the head mechanism
- Contoured handle for comfort and control

| Stock No. | Description   | Gear Teeth | Swing Arc | A    | B     | C        | Repair Kit | Replacement Cover Plate | Joint Repair Kit | Replacement Grip | Locking Mechanism Repair Kit |
|-----------|---|------------|-----------|------|-------|----------|------------|-------------------------|------------------|------------------|------------------------------|
| FR80      | Standard Handle Quick-Release   | 80         | 4.5       | 9/16 | 1-1/4 | 7-7/16   | RKRFR80    | F80-2                   | —                | —                | —                            |
| FRLL80    | Extra-Long Handle Quick-Release Ratchet                                       | 80         | 4.5       | 9/16 | 1-1/4 | 17-1/2   | RKRFR80    | F80-2                   | —                | —                | —                            |
| FRSLF80   | 3/8" Drive Dual 80® Technology Speeder Handle Flex-Head Quick Release Ratchet | 80         | 4.5       | 5/8  | 1-1/4 | 13-3/4   | RKRFRLLF80 | F80-2                   | RKRFLF80AJT      | —                | —                            |
| FRLF80A   | Long Handle Quick-Release Flex Head   | 80         | 4.5       | 9/16 | 1-1/4 | 11-1/2   | RKRFR80    | F80-2                   | RKRFLF80AJT      | —                | —                            |
| FHR80*    | Standard Soft Grip Handle Quick-Release                                       | 80         | 4.5       | 9/16 | 1-1/4 | 9-9/16   | RKRFR80    | F80-2                   | —                | FH80-12          | —                            |
| FHRLF80A* | Long Soft Grip Handle Quick-Release Flex Head                                 | 80         | 4.5       | 9/16 | 1-1/4 | 13-11/16 | RKRFR80    | F80-2                   | RKRFLF80AJT      | FH80-12          | —                            |
| FRX80A    | Standard Handle Quick-Release Locking Flex Head                               | 80         | 4.5       | 9/16 | 1-1/4 | 11-3/8   | RKRFR80    | F80-2                   | RKRFLF80AJT      | —                | RKRFX936ALM                  |
| FHRX80A*  | Standard Soft Grip Handle Quick-Release Locking Flex Head                     | 80         | 4.5       | 9/16 | 1-1/4 | 11-15/16 | RKRFR80    | F80-2                   | RKRFLF80AJT      | FH80-12          | RKRFX936ALM                  |

ASME®/ANSI® B107.10  
FH936-12 Soft Grip Replacement Handle

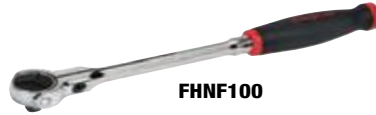
Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



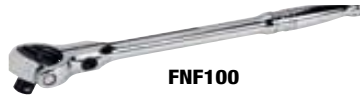
**FHCNF72**



**FHNf100**



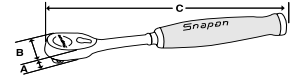
**FN100**



**FNF100**



**FZERO**



## Round Head Ratchets, Chrome (3/8")

Snap-on® Round Head Ratchets feature up to 100 teeth to achieve the lowest possible swing arc. Slim design is perfect for the tightest of space constraints.

| Stock No.       | Description                          | Gear Teeth | Swing Arc | A     | B     | C      | Repair Kit        |
|-----------------|--------------------------------------|------------|-----------|-------|-------|--------|-------------------|
| <b>FHCNF72*</b> | Compact Round Head Soft Grip Swivel  | 72         | 5         | 7/16  | 1-1/4 | 6-7/8  | <b>RKRfHCNF72</b> |
| <b>FHNf100*</b> | Red Soft Grip Swivel Head Ratchet    | 100        | 3.6       | 11/16 | 1-3/4 | 12-1/2 | <b>RKRfHNf100</b> |
| <b>FN100</b>    | Round Head Ratchet                   | 100        | 3.6       | 11/16 | 1-3/4 | 7-7/8  | <b>RKRfHNf100</b> |
| <b>FNF100</b>   | Round Swivel Head Ratchet            | 100        | 3.6       | 11/16 | 1-3/4 | 10-1/4 | <b>RKRfHNf100</b> |
| <b>FZERO</b>    | Standard Gearless Round Head Ratchet | Zero       | 0         | 5/8   | 1-1/2 | 7-1/2  | <b>RKRfZERO</b>   |

ASME®/ANSI® B107.10

\*FH936-12 Soft Grip Replacement Handle

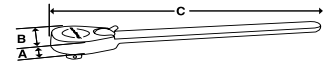
### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**RAF80A**



## Low-Profile Ratchet (3/8")

Dial 80® Technology Low-Profile Ratchet

- Square drive design works with low-profile sockets to access restricted clearance without loss of strength
- Use with standard 3/8" drive sockets or other attachments
- Thin handle cross section allows for increased accessibility in tight quarters

- Dual 80® Technology requires less arc to engage the next gear tooth
- Seven teeth in contact with gear to provide strength and durability

| Stock No.     | Description         | Gear Teeth | Swing Arc | A    | B     | C     | Repair Kit      |
|---------------|---------------------|------------|-----------|------|-------|-------|-----------------|
| <b>RAF80A</b> | Low-Profile Ratchet | 80         | 4.5       | 7/16 | 1-1/4 | 7-1/2 | <b>RKRRAF80</b> |

ASME®/ANSI® B107.10

FH936-12 Soft Grip Replacement Handle



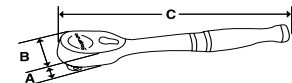
**F80FOD**



**GF80FOD**



**GFL80FOD**



## FOD Ratchets (Foreign Object Damage) (3/8")

- For aviation and other critical applications where Foreign Object Damage prevention is crucial for success
- Designed to have the lowest profile and work with the shortest swing arc, providing better access to restricted areas

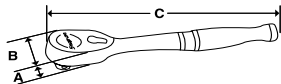
| Stock No.       | Description  | Gear Teeth | Swing Arc | A    | B     | C       |
|-----------------|--|------------|-----------|------|-------|---------|
| <b>F80FOD</b>   | Standard Handle Foreign Object Damage Ratchet        | 80         | 4.5       | 9/16 | 1-1/4 | 7-7/16  |
| <b>GF80FOD</b>  | Industrial Handle Foreign Object Damage Ratchet      | 80         | 4.5       | 9/16 | 1-1/4 | 7-7/16  |
| <b>GFL80FOD</b> | Long Industrial Handle Foreign Object Damage Ratchet | 80         | 4.5       | 9/16 | 1-1/4 | 10-5/16 |

ASME®/ANSI® B107.10



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## RATCHETS



FCY72

### Hi-Lok® Fastener Ratchet (3/8")

#### 3/8" Drive Dual 80® Technology Hi-Lok® Compact Head Ratchet

- Dual 80® Ratchet Technology features dual-pawls and a 72-tooth gear providing for more power in less lateral space
- Six teeth in full contact with gear to provide strength and durability
- A mere 5° ratcheting arc
- Sealed head helps keep dirt and other contaminants out of the head mechanism
- For use with standard or Hi-Lok® sockets

| Stock No. | Description                  | Gear Teeth | Swing Arc | A    | B     | C     | Repair Kit |
|-----------|------------------------------|------------|-----------|------|-------|-------|------------|
| FCY72     | Hi-Lok® Compact Head Ratchet | 72         | 5         | 7/16 | 15/16 | 4-5/8 | RKRCFY72   |



FZ936A



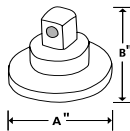
PALMRAT

### Specialty Ratchets (3/8")

| Stock No. | Description                               | Gear Teeth | Swing Arc | A      | B      | C     | Repair Kit |
|-----------|---|------------|-----------|--------|--------|-------|------------|
| FZ936A    | Multi-Purpose Special Application Ratchet | 36         | 10        | 5/8    | 1-3/16 | 3-1/4 | RKRF936    |
| PALMRAT   | Palm Style Special Application Ratchet    | 20         | 18        | 1-3/16 | —      | 2-5/8 | RKRPALMRAT |



FRS70A



### Ratchet Spinners (3/8")

| Stock No. | Description     | A     | B      |
|-----------|-----------------|-------|--------|
| FRS70A    | Spinner Ratchet | 1-1/4 | 1-9/32 |

ASME®/ANSI® B107.10



FSDR1

### Ratchet Spinner (Blue-Point®) (3/8")

| Stock No. | Description   | A     | B      |
|-----------|---|-------|--------|
| FSDR1†    | 3/8" External Drive/1/4" Internal Square Drive Finger Ratchet | 1-1/8 | 1-7/16 |

B107-10M-2005

## BREAKER BARS



F10LD



F12LB



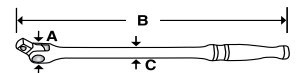
F18LA



FHBB12A



FHBB18A

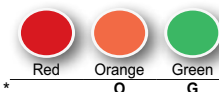


### Breaker Bars, Chrome (3/8")

| Stock No. | Description  | A     | B       | C   | Repair Kit |
|-----------|--|-------|---------|-----|------------|
| F10LD†    | 3/8" Drive Breaker Bar                                     | 13/16 | 9-9/16  | 1/2 | RKBB2A     |
| F12LB†    | 3/8" Drive 11-9/16" Long Handle Breaker Bar                | 13/16 | 11-9/16 | 1/2 | RKBB2A     |
| F18LA     | 3/8" Drive 18" Extra-Long Handle Breaker Bar               | 7/8   | 18      | 1/2 | RKBB2A     |
| FHBB12A** | 3/8" Drive 13" Soft Grip Handle Breaker Bar                | 13/16 | 13      | 1/2 | RKBB2A     |
| FHBB18A*  | 3/8" Drive 17-1/2" Soft Grip Extra-Long Handle Breaker Bar | 7/8   | 17-1/2  | 1/2 | RKBB2A     |

\*ASME®/ANSI® B107.10

#### Colors Available



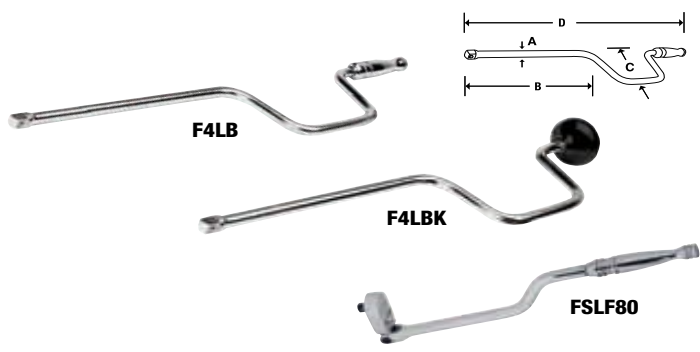
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## SPEEDERS

### Speeders, Chrome

| Stock No. | A     | B     | C     | D        |
|-----------|-------|-------|-------|----------|
| F4LB*     | 13/32 | 7-7/8 | 3-1/2 | 17-27/32 |
| F4LBK*    | 13/32 | 7-7/8 | 3-1/2 | 16-5/8   |
| FSLF80    | 9/16  | 4-7/8 | 1-7/8 | 11-9/16  |

\*Speeder with knob



### Sliding T-Handles, Chrome

| Stock No. | A   | B     | C |
|-----------|-----|-------|---|
| F5L       | 3/4 | 13/32 | 8 |



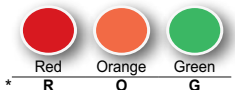
## DRIVE HANDLES

### Handled Drivers, Chrome

| Stock No. | A   | B | C       |
|-----------|-----|---|---------|
| F40B      | 1/2 | 1 | 5-5/16  |
| SGF50CR*  | 1/2 | 5 | 10-7/16 |

\*Instinct® Handle

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



### Extensions/Knurled

Knurled Extensions feature:

- Chamfered drive ends for easy engagement
- Small diameter shank for maximum accessibility
- Cold formed for robust performance and made from a single piece of steel
- Knurled shaft provides fingertip control

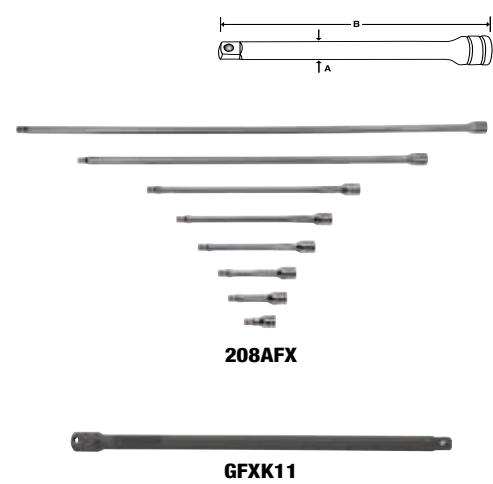
| Stock No. | Industrial Stock No. | A     | B     | Set Contains: |             |        |
|-----------|----------------------|-------|-------|---------------|-------------|--------|
|           |                      |       |       | 206AFX        | 206AFXMBR** | 206AFX |
| FX1*      | GFX1                 | 1/2   | 1-1/2 | •             | •           | •      |
| FX2       | —                    | 31/64 | 2     |               |             |        |
| FXK3      | GFXK3                | 13/32 | 3     | •             | •           | •      |
| FXK4      | —                    | 13/32 | 4     | •             | •           | •      |
| FXK6      | GFXK6                | 13/32 | 6     | •             | •           | •      |
| FXK8      | GFXK8                | 13/32 | 8     | •             | •           | •      |
| FXK11     | GFXK11               | 13/32 | 11    | •             | •           | •      |
| FX18*     | —                    | 1/2   | 18    | •             |             |        |
| FX24A*    | —                    | 1/2   | 24    | •             |             |        |
| FX36*     | —                    | 1/2   | 36    |               |             |        |

\*Not knurled

\*\*Includes foam tray

Sets do not include industrial part number.

Sets include storage tray.



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

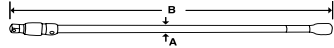
## EXTENSIONS

### Extensions/Locking, Chrome

- Release socket from extension quickly and easily
- Knurling at drive end provides easy fingertip turning

Set Contains:

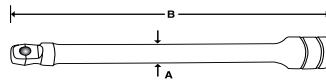
204FXKLA



| Stock No. | A   | B  |   |
|-----------|-----|----|---|
| FXKL3A    | 1/2 | 3  | • |
| FXKL6A    | 1/2 | 6  | • |
| FXKL8A    | 1/2 | 8  |   |
| FXKL11A   | 1/2 | 11 | • |
| FXKL12A   | 1/2 | 12 |   |
| FXKL24A   | 1/2 | 24 | • |

FXKLP Locking pins for FXKL Series Extensions; 5-pk.  
FXKLRK Repair kit for FXKL Series Extensions.

Set shown includes storage tray.



### Extensions/Wobble, Chrome

- Wobble function provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

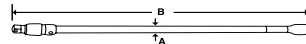
Set Contains:

206FXWK

| Stock No. | A     | B     |   |
|-----------|-------|-------|---|
| FXW1*     | 1/2   | 1-1/2 | • |
| FXWK3     | 13/32 | 3     | • |
| FXWK4     | 13/32 | 4     | • |
| FXWK6     | 13/32 | 6     | • |
| FXWK8     | 13/32 | 8     | • |
| FXWK11    | 13/32 | 11    | • |

\*Not knurled

Set shown includes storage tray



### Extensions/Locking Wobble, Chrome

- Provides 16° of additional accessibility
- Quick-release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands

Set Contains:

203FXWKL

| Stock No. | A   | B  |   |
|-----------|-----|----|---|
| FXWKL3    | 1/2 | 3  | • |
| FXWKL6    | 1/2 | 6  | • |
| FXWKL11   | 1/2 | 11 | • |

Set shown includes storage tray.

### Extensions/Wobble Plus, Chrome

- **WOBBLE FUNCTION:** Provides 16° of additional accessibility; offset to clear obstruction; use in restricted areas
- **WOBBLE PLUS:** Usable in both wobble or rigid functions; two tools in one for more applications, saves time
- **STANDARD FUNCTION:** Provides extra reach when needed; for traditional rigid linear applications
- **DURABLE:** Special alloy steel; cold-forged; nickel-chrome plated; corrosion resistance and strength for longer life
- **CONTROL:** Knurled shank; for easy fingertip turning when working in tight quarters

Set Contains:

206AFXWP

| Stock No. | A     | B     |   |
|-----------|-------|-------|---|
| FXWP1*    | 1/2   | 1-1/2 | • |
| FXWP3     | 13/32 | 3     | • |
| FXWP4     | 13/32 | 4     | • |
| FXWP6     | 13/32 | 6     | • |
| FXWP8     | 13/32 | 8     | • |
| FXWP11    | 13/32 | 11    | • |

\*Not knurled

Set shown includes storage tray.

### Extension Connectors, Chrome

#### FZ1 3/8" Drive Extension Connector

- 3/8" drive Extension Connector adds versatility to extensions, breaker bars, ratchets and crowfoot wrenches
- Connect one or more tools for a variety of ways to reach limited-access fasteners
- Use in automotive, aircraft, marine, heavy truck, plumbing and manufacturing applications



FZ1

#### FZ2 2 pc 3/8" Drive Extension Connector Set

- Female and male 90° connectors add versatility to extensions, breaker bars, ratchets and crowfoot wrenches when accessing hard-to-reach fasteners

## Square Drive Adaptors, Chrome

| Stock No. | Industrial Stock No. | A   | B   | C       |
|-----------|----------------------|-----|-----|---------|
| —         | GFAT1E               | 3/8 | 1/4 | 11/16   |
| TA3       | GTA3                 | 1/4 | 3/8 | 1/2     |
| A2A       | GAF2A                | 3/8 | 1/2 | 1-5/16  |
| —         | GSAF1F               | 1/2 | 3/8 | 1-13/16 |

### 206EAU 6 pc 3/8" Drive Adaptor/Extension Set

- Includes (6) components in a tray—GFAT1E and A2A adaptors; FU8A universal joint and FX1, FXK3 and FXK6 extensions

### A2A 3/8" Drive Square Drive Adaptor

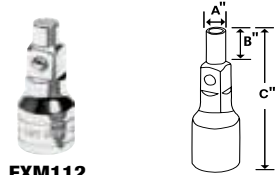
- 3/8" internal drive x 1/2" external drive
- 1-5/16" long



206EAU

## Magnetic Adaptors, Chrome

| Stock No. | A    | B    | C       |
|-----------|------|------|---------|
| FXM112    | 5/16 | 9/32 | 1-25/32 |
| FXM18     | 3/16 | 9/32 | 1-25/32 |



FXM112

## Universal Joints, Chrome

| Stock No. | Industrial Stock No. | A   | B      |
|-----------|----------------------|-----|--------|
| FUL8A     | —                    | 3/4 | 3      |
| FU8A**    | GFU8A                | 3/4 | 2-1/16 |
| FU80B     | —                    | —   | —      |

Swivel Universal Joint

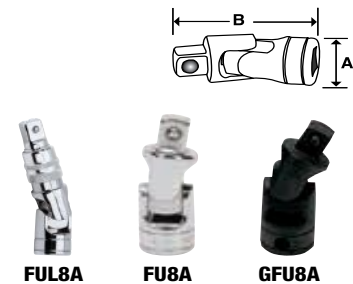
ASME®/ANSI® B107.10

### FUL8A 3/8" Drive 3" Locking Pin Universal Joint

- Locking pin for better socket retention

### 103UFTS 3 pc Combination Drive Universal Joint Set

- Includes (1) 1/4" Drive Universal Joint, (1) 3/8" Drive Universal Joint and (1) 1/2" Drive Universal Joint in storage tray



FUL8A

FU8A

GFU8A



103UFTS

## Non-marring Metric Socket Inserts

- Designed for use with Snap-on® 1/4" and 3/8" drive metric sockets
- Tough glass-reinforced nylon offers excellent strength yet will not damage soft metals, plated fasteners or powder-coated surfaces
- Large lip makes insert removal easy
- Set covers most popular metric sizes; inserts are marked for easy identification
- Supplied on metal storage ring; avoid lost inserts or wasted time looking for them in tool cabinets, toolboxes, etc.
- Do not use socket inserts with impact tools

| Stock No. | Socket Size | Fastener Size | Working Torque, in-lb | Set Contains: |
|-----------|-------------|---------------|-----------------------|---------------|
| PSCM1208  | 12 mm       | 8 mm          | 80                    | •             |
| PSCM1410  | 14 mm       | 10 mm         | 155                   | •             |
| PSCM1612  | 16 mm       | 12 mm         | 240                   | •             |
| PSCM1713  | 17 mm       | 13 mm         | 400                   | •             |
| PSCM1915  | 19 mm       | 15 mm         | 450                   | •             |
| PSCM2217  | 22 mm       | 17 mm         | 700                   | •             |

Set Contains:  
PSCM600



PSCM600



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® XTRA SOCKETS



YFSM161

## Flank Drive® Xtra Shallow, mm, Chrome

| mm | 6       | A    | B    | C    | D    | E    | Set Contains: |          |
|----|---------|------|------|------|------|------|---------------|----------|
|    |         |      |      |      |      |      | 212YFSMY      | 215YFSMY |
|    | 6       |      |      |      |      |      | 6             | 6        |
| 6  | YFSM61  | 9.5  | 17.5 | 11.1 | 23.0 | 5.6  |               | •        |
| 7  | YFSM71  | 11.1 | 17.5 | 11.1 | 23.0 | 5.6  |               | •        |
| 8  | YFSM81  | 11.9 | 17.5 | 11.1 | 23.0 | 6.4  | •             | •        |
| 9  | YFSM91  | 13.5 | 17.5 | 11.1 | 23.0 | 6.4  | •             | •        |
| 10 | YFSM101 | 14.3 | 17.5 | 11.1 | 23.0 | 6.4  | •             | •        |
| 11 | YFSM111 | 15.9 | 17.5 | 11.1 | 23.0 | 7.1  | •             | •        |
| 12 | YFSM121 | 16.7 | 17.5 | 11.9 | 24.6 | 7.9  | •             | •        |
| 13 | YFSM131 | 18.3 | 18.3 | 12.6 | 24.6 | 7.9  | •             | •        |
| 14 | YFSM141 | 19.8 | 19.8 | 13.1 | 25.4 | 10.3 | •             | •        |
| 15 | YFSM151 | 20.6 | 20.6 | 15.2 | 27.8 | 10.3 | •             | •        |
| 16 | YFSM161 | 21.4 | 21.4 | 15.6 | 28.6 | 11.9 | •             | •        |
| 17 | YFSM171 | 23.0 | 23.0 | 16.0 | 29.4 | 12.7 | •             | •        |
| 18 | YFSM181 | 24.6 | 24.6 | 16.5 | 30.2 | 12.7 | •             | •        |
| 19 | YFSM191 | 25.4 | 25.4 | 17.2 | 31.0 | 12.7 | •             | •        |
| 20 | YFSM201 | 27.0 | 27.0 | 17.8 | 31.8 | 12.7 |               | •        |

ASME®/ANSI® B107.110

Sets include magnetic storage tray.



YFS141

## Flank Drive® Xtra Shallow, Inches, Chrome

| Inches | 6      | A      | B      | C       | D     | E     | Set Contains: |         |
|--------|--------|--------|--------|---------|-------|-------|---------------|---------|
|        |        |        |        |         |       |       | 211YFSY       | 214YFSY |
|        | 6      |        |        |         |       |       | 6             | 6       |
| 1/4    | YFS081 | 13/32  | 11/16  | 1-5/8   | 2-1/8 | 7/32  | •             | •       |
| 5/16   | YFS101 | 15/32  | 11/16  | 1-5/8   | 2-1/8 | 9/32  | •             | •       |
| 11/32  | YFS111 | 1/2    | 11/16  | 1-5/8   | 2-1/8 | 1/4   |               | •       |
| 3/8    | YFS121 | 9/16   | 11/16  | 1-5/8   | 2-1/8 | 9/32  | •             | •       |
| 7/16   | YFS141 | 5/8    | 11/16  | 1-5/8   | 2-1/8 | 3/8   | •             | •       |
| 1/2    | YFS161 | 23/32  | 23/32  | 1-5/8   | 2-1/8 | 13/32 | •             | •       |
| 9/16   | YFS181 | 25/32  | 25/32  | 1-21/32 | 2-3/8 | 13/32 | •             | •       |
| 5/8    | YFS201 | 27/32  | 27/32  | 1-21/32 | 2-3/8 | 15/32 | •             | •       |
| 11/16  | YFS221 | 15/16  | 15/16  | 1-29/32 | 2-5/8 | 1/2   | •             | •       |
| 3/4    | YFS241 | 1      | 1      | 1-29/32 | 2-5/8 | 19/32 | •             | •       |
| 13/16  | YFS261 | 1-1/16 | 1-1/16 | 2       | 2-3/4 | 21/32 | •             | •       |
| 7/8    | YFS281 | 1-5/32 | 1-5/32 | 2       | 2-3/4 | 23/32 | •             | •       |
| 15/16  | YFS301 | 1-1/4  | 1-1/4  | 2       | 2-3/4 | 3/4   |               | •       |
| 1      | YFS321 | 1-5/16 | 1-5/16 | 1-31/32 | 2-3/4 | 13/16 |               | •       |

ASME®/ANSI® B107.110

Sets include magnetic storage tray.





212YFSSY

## Flank Drive® Xtra Semi-Deep, mm, Chrome

Set Contains:

212YFSSY

| mm | 6        | A    | B    | C    | D    | E    | 6 |
|----|----------|------|------|------|------|------|---|
| 6  | YFSS61*  | 10.3 | 17.5 | 29.3 | 41.3 | 5.6  |   |
| 7  | YFSS71*  | 11.1 | 17.5 | 29.3 | 41.3 | 6.4  |   |
| 8  | YFSS81*  | 11.9 | 17.5 | 29.3 | 41.3 | 6.4  | • |
| 9  | YFSS91*  | 13.5 | 17.5 | 29.3 | 41.3 | 6.4  | • |
| 10 | YFSS101* | 14.3 | 17.5 | 29.3 | 41.3 | 7.1  | • |
| 11 | YFSS111* | 15.9 | 17.5 | 29.3 | 41.3 | 9.5  | • |
| 12 | YFSS121* | 16.7 | 17.5 | 29.3 | 41.3 | 9.5  | • |
| 13 | YFSS131* | 18.3 | 18.3 | 29.3 | 41.3 | 10.3 | • |
| 14 | YFSS141* | 19.8 | 19.8 | 23.6 | 41.3 | 10.3 | • |
| 15 | YFSS151* | 20.6 | 20.6 | 23.6 | 41.3 | 10.3 | • |
| 16 | YFSS161* | 21.4 | 21.4 | 23.4 | 41.3 | 10.3 | • |
| 17 | YFSS171* | 23.0 | 23.0 | 23.4 | 41.3 | 11.1 | • |
| 18 | YFSS181* | 24.6 | 24.6 | 23.3 | 41.3 | 11.1 | • |
| 19 | YFSS191* | 25.4 | 25.4 | 23.1 | 41.3 | 12.7 | • |
| 20 | YFSS201* | 27.0 | 27.0 | 22.7 | 41.3 | 12.7 |   |



YFSS161

\*ASME®/ANSI® B107.110

Sets include magnetic storage tray.



211YFSSY

## Flank Drive® Xtra Semi-Deep, SAE, Chrome

Set Contains:

211YFSSY

| SAE   | 6       | A     | B     | C      | D       | E     | 6 |
|-------|---------|-------|-------|--------|---------|-------|---|
| 1/4   | YFSS081 | 13/32 | 11/16 | 1-1/8  | 1-5/8   | 13/32 | • |
| 5/16  | YFSS101 | 15/32 | 11/16 | 1-1/8  | 1-5/8   | 15/32 | • |
| 3/8   | YFSS121 | 9/16  | 11/16 | 1-1/8  | 1-5/8   | 9/16  | • |
| 7/16  | YFSS141 | 5/8   | 11/16 | 1-1/8  | 1-5/8   | 5/8   | • |
| 1/2   | YFSS161 | 23/32 | 23/32 | 1-1/8  | 1-5/8   | 23/32 | • |
| 9/16  | YFSS181 | 25/32 | 25/32 | 29/32  | 1-5/8   | 25/32 | • |
| 5/8   | YFSS201 | 27/32 | 27/32 | 29/32  | 1-5/8   | 27/32 | • |
| 11/16 | YFSS221 | 15/16 | 15/16 | 29/32  | 1-5/8   | 15/16 | • |
| 3/4   | YFSS241 | 1/1   | 1/1   | 1-1/16 | 1-5/8   | 1/1   | • |
| 13/16 | YFSS261 | 17/16 | 17/16 | 1-1/16 | 1-5/8   | 17/16 | • |
| 7/8   | YFSS281 | 37/32 | 37/32 | 1-3/16 | 1-23/32 | 37/32 | • |
| 15/16 | YFSS301 | 5/4   | 5/4   | 1-3/16 | 1-3/4   | 5/4   |   |
| 1     | YFSS321 | 21/16 | 21/16 | 1-7/32 | 1-3/4   | 21/16 |   |



YFSS221

ASME®/ANSI® B107.110

Sets include magnetic storage tray.



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® XTRA SOCKETS



212YSFSMY

## Flank Drive® Xtra Deep, mm, Chrome



YSFSM8



YSFSM19

| mm | 6       | A    | B    | C    | D    | E    | Set Contains: |   |
|----|---------|------|------|------|------|------|---------------|---|
|    |         |      |      |      |      |      | 6             | 6 |
| 6  | YSFSM6  | 10.3 | 17.5 | 42.0 | 54.0 | 6.4  |               | • |
| 7  | YSFSM7  | 11.1 | 17.5 | 42.0 | 54.0 | 6.4  |               | • |
| 8  | YSFSM8  | 11.9 | 17.5 | 42.0 | 54.0 | 6.4  | •             | • |
| 9  | YSFSM9  | 13.5 | 17.5 | 42.0 | 54.0 | 6.4  | •             | • |
| 10 | YSFSM10 | 14.3 | 17.5 | 42.0 | 54.0 | 7.1  | •             | • |
| 11 | YSFSM11 | 15.9 | 17.5 | 42.0 | 54.0 | 9.5  | •             | • |
| 12 | YSFSM12 | 16.7 | 17.5 | 42.0 | 54.0 | 9.5  | •             | • |
| 13 | YSFSM13 | 18.3 | 18.3 | 42.0 | 54.0 | 10.3 | •             | • |
| 14 | YSFSM14 | 19.8 | 19.8 | 42.6 | 60.3 | 10.3 | •             | • |
| 15 | YSFSM15 | 20.6 | 20.6 | 42.6 | 60.3 | 10.3 | •             | • |
| 16 | YSFSM16 | 21.4 | 21.4 | 42.4 | 60.3 | 10.3 | •             | • |
| 17 | YSFSM17 | 23.0 | 23.0 | 48.8 | 66.7 | 12.7 | •             | • |
| 18 | YSFSM18 | 24.6 | 24.6 | 48.7 | 66.7 | 12.7 | •             | • |
| 19 | YSFSM19 | 25.4 | 25.4 | 48.5 | 66.7 | 15.1 | •             | • |
| 20 | YSFSM20 | 27.0 | 27.0 | 48.1 | 66.7 | 15.1 |               | • |
| 21 | YSFSM21 | 28.6 | 28.6 | 48.1 | 66.7 | 15.1 |               |   |

ASME/ANSI® B107.110

Sets include magnetic storage tray.



211YSFSY



214YSFSY

## Flank Drive® Xtra Deep, Inches, Chrome



YSFS161

| Inches | 6       | A      | B      | C       | D     | E     | Set Contains: |   |
|--------|---------|--------|--------|---------|-------|-------|---------------|---|
|        |         |        |        |         |       |       | 6             | 6 |
| 1/4    | YSFS081 | 13/32  | 11/16  | 1-5/8   | 2-1/8 | 7/32  | •             | • |
| 5/16   | YSFS101 | 15/32  | 11/16  | 1-5/8   | 2-1/8 | 9/32  | •             | • |
| 11/32  | YSFS111 | 1/2    | 11/16  | 1-5/8   | 2-1/8 | 1/4   |               | • |
| 3/8    | YSFS121 | 9/16   | 11/16  | 1-5/8   | 2-1/8 | 9/32  | •             | • |
| 7/16   | YSFS141 | 5/8    | 11/16  | 1-5/8   | 2-1/8 | 3/8   | •             | • |
| 1/2    | YSFS161 | 23/32  | 23/32  | 1-5/8   | 2-1/8 | 13/32 | •             | • |
| 9/16   | YSFS181 | 25/32  | 25/32  | 1-21/32 | 2-3/8 | 13/32 | •             | • |
| 5/8    | YSFS201 | 27/32  | 27/32  | 1-21/32 | 2-3/8 | 15/32 | •             | • |
| 11/16  | YSFS221 | 15/16  | 15/16  | 1-29/32 | 2-5/8 | 1/2   | •             | • |
| 3/4    | YSFS241 | 1      | 1      | 1-29/32 | 2-5/8 | 19/32 | •             | • |
| 13/16  | YSFS261 | 1-1/16 | 1-1/16 | 2       | 2-3/4 | 21/32 | •             | • |
| 7/8    | YSFS281 | 1-5/32 | 1-5/32 | 2       | 2-3/4 | 23/32 | •             | • |
| 15/16  | YSFS301 | 1-1/4  | 1-1/4  | 2       | 2-3/4 | 3/4   |               | • |
| 1      | YSFS321 | 1-5/16 | 1-5/16 | 1-31/32 | 2-3/4 | 13/16 |               | • |

ASME/ANSI® B107.110

Sets include magnetic storage tray.



## Shallow, mm, Chrome

| mm | Set Contains: |      |       |      | 212FSMY |      | 212FMY |      |   |    |
|----|---------------|------|-------|------|---------|------|--------|------|---|----|
|    | 6             | 12   | 12    | A    | B       | C    | D      | E    | 6 | 12 |
| 6  | FSM61         | FM6  | —     | 9.1  | 17.2    | 11.1 | 23.0   | 5.6  |   |    |
| 7  | FSM71         | FM7  | —     | 10.4 | 17.2    | 11.1 | 23.0   | 5.6  |   |    |
| 8  | FSM81         | FM8  | —     | 11.6 | 17.2    | 11.1 | 23.0   | 6.4  | • | •  |
| 9  | FSM91         | FM9  | GFM9A | 13.1 | 17.2    | 11.0 | 23.0   | 7.1  | • | •  |
| 10 | FSM101        | FM10 | —     | 14.3 | 17.2    | 11.0 | 23.0   | 7.1  | • | •  |
| 11 | FSM111        | FM11 | —     | 15.4 | 17.2    | 11.0 | 23.0   | 7.1  | • | •  |
| 12 | FSM121        | FM12 | —     | 16.5 | 17.2    | 11.9 | 23.8   | 8.1  | • | •  |
| 13 | FSM131        | FM13 | —     | 18.0 | 17.2    | 12.6 | 24.6   | 8.1  | • | •  |
| 14 | FSM141        | FM14 | —     | 19.6 | 18.6    | 13.2 | 26.2   | 9.1  | • | •  |
| 15 | FSM151        | FM15 | —     | 20.3 | 19.4    | 13.7 | 27.0   | 9.1  | • | •  |
| 16 | FSM161        | FM16 | —     | 21.1 | 20.2    | 15.0 | 27.8   | 10.4 | • | •  |
| 17 | FSM171        | FM17 | —     | 22.7 | 21.8    | 15.0 | 28.6   | 10.4 | • | •  |
| 18 | FSM181        | FM18 | —     | 24.3 | 23.2    | 15.7 | 28.6   | 10.9 | • | •  |
| 19 | FSM191        | FM19 | —     | 25.1 | 24.0    | 16.3 | 30.2   | 11.9 | • | •  |
| 20 | FSM201        | FM20 | —     | 26.3 | 25.3    | 16.6 | 30.9   | 12.4 |   |    |
| 21 | FSM211        | FM21 | —     | 27.4 | 26.4    | 17.4 | 31.8   | 12.2 |   |    |
| 22 | FSM221        | FM22 | —     | 28.3 | 27.2    | 17.4 | 32.5   | 13.2 |   |    |
| 23 | FSM231        | FM23 | —     | 29.9 | 28.8    | 18.2 | 33.8   | 13.2 |   |    |
| 24 | FSM241        | FM24 | —     | 31.5 | 30.5    | 19.0 | 35.0   | 14.4 |   |    |
| 25 | FSM251        | FM25 | —     | 32.3 | 31.3    | 19.8 | 35.3   | 14.5 |   |    |
| 26 | FSM261        | FM26 | —     | 33.8 | 32.9    | 20.6 | 37.0   | 14.3 |   |    |

Sets include magnetic storage tray.



## Shallow, Inches, Chrome

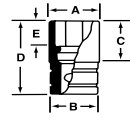
| In    | Set Contains: |      |        |       | 214FSY |        | 211FSY |         | 211FY |   |   |    |
|-------|---------------|------|--------|-------|--------|--------|--------|---------|-------|---|---|----|
|       | 6             | 12   | 6      | 12    | A      | B      | C      | D       | E     | 6 | 6 | 12 |
| 1/4   | FS081         | F081 | GFS081 | GF081 | 13/32  | 11/16  | 7/16   | 29/32   | 7/32  | • | • | •  |
| 5/16  | FS101         | F101 | GFS101 | GF101 | 15/32  | 11/16  | 7/16   | 29/32   | 1/4   | • | • | •  |
| 11/32 | FS111         | F111 | —      | GF111 | 1/2    | 11/16  | 7/16   | 29/32   | 9/32  | • |   |    |
| 3/8   | FS121         | F121 | GFS121 | GF121 | 9/16   | 11/16  | 7/16   | 29/32   | 9/32  | • | • | •  |
| 7/16  | FS141         | F141 | GFS141 | GF141 | 5/8    | 11/16  | 7/16   | 29/32   | 9/32  | • | • | •  |
| 1/2   | FS161         | F161 | GFS161 | GF161 | 23/32  | 11/16  | 1/2    | 15/16   | 5/16  | • | • | •  |
| 9/16  | FS181         | F181 | GFS181 | GF181 | 25/32  | 3/4    | 1/2    | 1-1/32  | 3/8   | • | • | •  |
| 19/32 | —             | —    | —      | GF191 | 13/16  | 25/32  | 9/16   | 1-1/16  | 3/8   |   |   |    |
| 5/8   | FS201         | F201 | GFS201 | GF201 | 27/32  | 25/32  | 19/32  | 1-3/32  | 1/2   | • | • | •  |
| 11/16 | FS221         | F221 | GFS221 | GF221 | 15/16  | 7/8    | 5/8    | 1-1/8   | 17/32 | • | • | •  |
| 3/4   | FS241         | F241 | GFS241 | GF241 | 1      | 15/16  | 11/16  | 1-3/16  | 15/32 | • | • | •  |
| 13/16 | FS261         | F261 | GFS261 | GF261 | 1-1/16 | 1      | 11/16  | 1-7/32  | 1/2   | • | • | •  |
| 7/8   | FS281         | F281 | GFS281 | GF281 | 1-5/32 | 1-1/32 | 23/32  | 1-9/32  | 9/16  | • | • | •  |
| 15/16 | FS301         | F301 | GFS301 | GF301 | 1-1/4  | 1-3/16 | 25/32  | 1-11/32 | 9/16  | • |   |    |
| 1     | FS321         | F321 | GFS321 | GF321 | 1-5/16 | 1-1/4  | 13/16  | 1-3/8   | 19/32 | • |   |    |

Sets include magnetic storage tray.



• Do not use chrome or industrial finish hand tools with impact drivers  
 • Read safety precautions on pages W1 to W4

# FLANK DRIVE® SOCKETS



## Semi-Deep, mm, Chrome

Set Contains: 212FSMSY 212FMSY

| mm | 6      | 12    | A    | B    | C    | D    | E    | 6 | 12 |
|----|--------|-------|------|------|------|------|------|---|----|
| 6  | FSMS6  | FMS6  | 9.5  | 17.5 | 28.6 | 41.3 | 5.6  |   |    |
| 7  | FSMS7  | FMS7  | 11.1 | 17.5 | 28.6 | 41.3 | 6.4  |   |    |
| 8  | FSMS8  | FMS8  | 11.4 | 17.2 | 29.3 | 41.3 | 7.1  | • | •  |
| 9  | FSMS9  | FMS9  | 12.8 | 17.2 | 29.3 | 41.3 | 7.1  | • | •  |
| 10 | FSMS10 | FMS10 | 14.3 | 17.2 | 29.3 | 41.3 | 7.9  | • | •  |
| 11 | FSMS11 | FMS11 | 15.7 | 17.2 | 29.3 | 41.3 | 9.7  | • | •  |
| 12 | FSMS12 | FMS12 | 16.5 | 17.2 | 29.3 | 41.3 | 9.9  | • | •  |
| 13 | FSMS13 | FMS13 | 17.9 | 17.2 | 23.2 | 41.3 | 10.7 | • | •  |
| 14 | FSMS14 | FMS14 | 19.6 | 18.6 | 23.2 | 41.3 | 10.7 | • | •  |
| 15 | FSMS15 | FMS15 | 20.3 | 19.4 | 23.2 | 41.3 | 10.7 | • | •  |
| 16 | FSMS16 | FMS16 | 21.1 | 20.2 | 23   | 41.3 | 10.7 | • | •  |
| 17 | FSMS17 | FMS17 | 22.6 | 21.8 | 23   | 41.3 | 11.2 | • | •  |
| 18 | FSMS18 | FMS18 | 24.2 | 23.2 | 23.0 | 41.3 | 11.2 | • | •  |
| 19 | FSMS19 | FMS19 | 25.1 | 24.0 | 22.7 | 41.3 | 11.7 | • | •  |
| 20 | FSMS20 | FMS20 | 27.0 | 26.2 | 22.2 | 41.3 | 12.7 |   |    |

Set includes magnetic storage tray.

## Semi-Deep, Inches, Chrome

Set Contains: 211FSSY

| in    | 6      | A      | B      | C      | D     | E     | 6 |
|-------|--------|--------|--------|--------|-------|-------|---|
| 1/4   | FSS081 | 13/32  | 11/16  | 1-1/8  | 1-5/8 | 7/32  | • |
| 5/16  | FSS101 | 15/32  | 11/16  | 1-1/8  | 1-5/8 | 1/4   | • |
| 3/8   | FSS121 | 9/16   | 11/16  | 1-1/8  | 1-5/8 | 9/32  | • |
| 7/16  | FSS141 | 5/8    | 11/16  | 1-1/8  | 1-5/8 | 3/8   | • |
| 1/2   | FSS161 | 23/32  | 11/16  | 29/32  | 1-5/8 | 13/32 | • |
| 9/16  | FSS181 | 25/32  | 3/4    | 29/32  | 1-5/8 | 13/32 | • |
| 5/8   | FSS201 | 27/32  | 13/16  | 29/32  | 1-5/8 | 13/32 | • |
| 11/16 | FSS221 | 15/16  | 29/32  | 29/32  | 1-5/8 | 7/16  | • |
| 3/4   | FSS241 | 1      | 31/32  | 29/32  | 1-5/8 | 7/16  | • |
| 13/16 | FSS261 | 1-1/16 | 1-1/32 | 29/32  | 1-5/8 | 15/32 | • |
| 7/8   | FSS281 | 1-5/32 | 1-1/8  | 29/32  | 1-5/8 | 1/2   | • |
| 15/16 | FSS301 | 1-1/4  | 1-7/32 | 1-3/16 | 1-3/4 | 23/32 |   |
| 1     | FSS321 | 1-5/16 | 1-9/32 | 1-7/32 | 1-3/4 | 17/32 |   |

Set includes magnetic storage tray.



FDS201



SFM19

SFSM9

212SFSMY

## Semi-Deep, Inches, Chrome

| in    | 12     | A      | B      | C      | D     | E     |
|-------|--------|--------|--------|--------|-------|-------|
| 1/4   | FDS081 | 13/32  | 11/16  | 1-1/8  | 1-5/8 | 7/32  |
| 9/32  | FDS091 | 7/16   | 11/16  | 3/4    | 1-1/4 | 7/32  |
| 5/16  | FDS101 | 15/32  | 11/16  | 3/4    | 1-1/4 | 1/4   |
| 11/16 | FDS111 | —      | 11/16  | —      | 1-1/2 | —     |
| 3/8   | FDS121 | 9/16   | 11/16  | 1      | 1-1/2 | 9/32  |
| 7/16  | FDS141 | 5/8    | 11/16  | 29/32  | 1-1/2 | 3/8   |
| 1/2   | FDS161 | 23/32  | 11/16  | 29/32  | 1-5/8 | 13/32 |
| 9/16  | FDS181 | 25/32  | 3/4    | 7/8    | 1-5/8 | 13/32 |
| 5/8   | FDS201 | 27/32  | 13/16  | 29/32  | 1-5/8 | 15/32 |
| 11/16 | FDS221 | 15/16  | 29/32  | 29/32  | 1-5/8 | 1/2   |
| 3/4   | FDS241 | 1      | 31/32  | 1-1/16 | 1-5/8 | 19/32 |
| 25/32 | FDS251 | 1-1/16 | 1-1/32 | 1-1/16 | 1-5/8 | 5/8   |
| 13/16 | FDS261 | 1-1/16 | 1-1/32 | 1-1/16 | 1-5/8 | 21/32 |
| 15/16 | FDS301 | 1-1/4  | 1-7/32 | 1-3/16 | 1-3/4 | 23/32 |
| 1     | FDS321 | 1-5/16 | 1-9/32 | 1-1/4  | 1-3/4 | 3/4   |

## Deep, mm, Chrome

Set Contains: 212SFSMY 212SFMY

| mm | 6      | 12    | A      | B    | C    | D    | E     | 6 | 12 |
|----|--------|-------|--------|------|------|------|-------|---|----|
| 6  | SFSM6  | SFM6  | 9.1    | 17.2 | 42.0 | 54.0 | 5.6   |   |    |
| 7  | SFSM7  | SFM7  | 10.5   | 17.2 | 42.0 | 54.0 | 5.6   |   |    |
| 8  | SFSM8  | SFM8  | 11.4   | 17.7 | 42.0 | 54.0 | 7.1   | • | •  |
| 9  | SFSM9  | SFM9  | 12.8   | 17.2 | 42.0 | 54.0 | 7.1   | • | •  |
| 10 | SFSM10 | SFM10 | 14.3   | 17.2 | 42.0 | 54.0 | 7.9   | • | •  |
| 11 | SFSM11 | SFM11 | 15.7   | 17.2 | 42.0 | 54.0 | 9.7   | • | •  |
| 12 | SFSM12 | SFM12 | 16.5   | 17.2 | 42.0 | 54.0 | 9.9   | • | •  |
| 13 | SFSM13 | SFM13 | 18.0   | 17.2 | 42.0 | 54.0 | 10.7  | • | •  |
| 14 | SFSM14 | SFM14 | 19.6   | 18.6 | 43.3 | 60.3 | 10.7  | • | •  |
| 15 | SFSM15 | SFM15 | 20.3   | 19.4 | 43.3 | 60.3 | 10.7  | • | •  |
| 16 | SFSM16 | SFM16 | 21.1   | 20.0 | 43.3 | 60.3 | 10.7  | • | •  |
| 17 | SFSM17 | SFM17 | 22.7   | 21.8 | 43.6 | 66.7 | 11.2  | • | •  |
| 18 | SFSM18 | SFM18 | 24.3   | 23.2 | 49.0 | 66.7 | 11.2  | • | •  |
| 19 | SFSM19 | SFM19 | 25.1   | 24.0 | 49.0 | 66.7 | 15.5  | • | •  |
| 20 | SFSM20 | SFM20 | 26.3   | 25.3 | 48.1 | 66.7 | 12.2  |   |    |
| 21 | SFSM21 | SFM21 | 27.5   | 26.4 | 47.6 | 66.7 | 12.4  |   |    |
| 22 | SFSM22 | —     | 1-5/32 | 28.5 | 49.2 | 73.0 | 19/32 |   |    |

Set includes magnetic storage tray.

## Extra-Long, inches

### SFSL181 3/8" Drive 6-Point SAE 9/16" Extra-Long Socket

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Flank Drive® wrenching system grips fastener on the flanks/flats, increasing torque and preventing fastener corners from rounding off
- Socket is 7-1/2" long allowing the long reach needed



SFSL181

## Shallow/Deep Sets, mm, Chrome (3/8")

| Set Contains: 224SFFSM |  |   | Set Contains: 224SFFSM |   |   |
|------------------------|--|---|------------------------|---|---|
| mm                     | 6-Point Metric Flank Drive® Shallow Socket | 6 | mm                     | 6-Point Metric Flank Drive® Deep Socket | 6 |
| 8                      | FSM81                                      | • | 8                      | SFSM8                                   | • |
| 9                      | FSM91                                      | • | 9                      | SFSM9                                   | • |
| 10                     | FSM101                                     | • | 10                     | SFSM10                                  | • |
| 11                     | FSM111                                     | • | 11                     | SFSM11                                  | • |
| 12                     | FSM121                                     | • | 12                     | SFSM12                                  | • |
| 13                     | FSM131                                     | • | 13                     | SFSM13                                  | • |
| 14                     | FSM141                                     | • | 14                     | SFSM14                                  | • |
| 15                     | FSM151                                     | • | 15                     | SFSM15                                  | • |
| 16                     | FSM161                                     | • | 16                     | SFSM16                                  | • |
| 17                     | FSM171                                     | • | 17                     | SFSM17                                  | • |
| 18                     | FSM181                                     | • | 18                     | SFSM18                                  | • |
| 19                     | FSM191                                     | • | 19                     | SFSM19                                  | • |

Set includes magnetic storage tray.



224SFFSM

### 224SFFSM 24 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow/Deep Combination Socket Set

- Includes (24) FSM81–FSM191 shallow sockets and SFSM8–SFSM19 deep sockets (8–19 mm)

## Shallow/Deep Sets, Inches, Chrome (3/8")

| Set Contains: 222SFFS |   |   | Set Contains: 222SFFS |                                      |   |
|-----------------------|---|---|-----------------------|--------------------------------------|---|
| in                    | 6-Point SAE Flank Drive® Shallow Socket | 6 | in                    | 6-Point SAE Flank Drive® Deep Socket | 6 |
| 1/4                   | FS081                                   | • | 1/4                   | SFS081                               | • |
| 5/16                  | FS101                                   | • | 5/16                  | SFS101                               | • |
| 3/8                   | FS121                                   | • | 3/8                   | SFS121                               | • |
| 7/16                  | FS141                                   | • | 7/16                  | SFS141                               | • |
| 1/2                   | FS161                                   | • | 1/2                   | SFS161                               | • |
| 9/16                  | FS181                                   | • | 9/16                  | SFS181                               | • |
| 5/8                   | FS201                                   | • | 5/8                   | SFS201                               | • |
| 11/16                 | FS221                                   | • | 11/16                 | SFS221                               | • |
| 3/4                   | FS241                                   | • | 3/4                   | SFS241                               | • |
| 13/16                 | FS261                                   | • | 13/16                 | SFS261                               | • |
| 7/8                   | FS281                                   | • | 7/8                   | SFS281                               | • |

Set includes magnetic storage tray.



222SFFS

### 222SFFS 22 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow/Deep Combination Socket Set

- Includes (11) shallow sockets (1/4–7/8") and (11) deep sockets (1/4–7/8")



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## FLANK DRIVE® SOCKETS



### Deep, Inches, Chrome

| <br>  | Set Contains: |       |         |        |        | 211SFSY |         | 214SFY |       | 215FY |    |    |
|-------|---------------|-------|---------|--------|--------|---------|---------|--------|-------|-------|----|----|
|       | 6             | 12    | 6       | 12     | A      | B       | C       | D      | E     | 6     | 12 | 12 |
| 1/4   | SFS081        | SF081 | GSFS081 | GSF081 | 15/32  | 11/16   | 1-11/16 | 2-1/8  | 1/4   | •     | •  | •  |
| 9/32  | —             | SF091 | —       | —      | 7/16   | 11/16   | 1-5/8   | 2-1/8  | 7/32  |       |    |    |
| 5/16  | SFS101        | SF101 | GSFS101 | GSF101 | 15/32  | 11/16   | 1-11/16 | 2-1/8  | 7/32  | •     | •  | •  |
| 11/32 | SFS111        | SF111 | —       | —      | 1/2    | 11/16   | 1-11/16 | 2-1/8  | 9/32  |       |    |    |
| 3/8   | SFS121        | SF121 | GSFS121 | GSF121 | 9/16   | 11/16   | 1-11/16 | 2-1/8  | 5/16  | •     | •  | •  |
| 7/16  | SFS141        | SF141 | GSFS141 | GSF141 | 5/8    | 11/16   | 1-11/16 | 2-1/8  | 3/8   | •     | •  | •  |
| 1/2   | SFS161        | SF161 | GSFS161 | GSF161 | 23/32  | 11/16   | 1-11/16 | 2-1/8  | 7/16  | •     | •  | •  |
| 9/16  | SFS181        | SF181 | GSFS181 | GSF181 | 25/32  | 23/32   | 1-29/32 | 2-3/8  | 7/16  | •     | •  | •  |
| 19/32 | —             | SF191 | —       | —      | 13/16  | 25/32   | 1-29/32 | 2-3/8  | 7/16  |       | •  |    |
| 5/8   | SFS201        | SF201 | GSFS201 | GSF201 | 27/32  | 13/16   | 1-29/32 | 2-3/8  | 15/32 | •     | •  | •  |
| 11/16 | SFS221        | SF221 | GSFS221 | GSF221 | 15/16  | 7/8     | 2-3/16  | 2-5/8  | 1/2   | •     | •  | •  |
| 3/4   | SFS241        | SF241 | GSFS241 | GSF241 | 1      | 1       | 2-3/16  | 2-5/8  | 5/8   | •     | •  | •  |
| 25/32 | —             | SF251 | —       | —      | 1-1/16 | 1-1/32  | 1-3/4   | 2-5/8  | 5/8   |       |    |    |
| 13/16 | SFS261        | SF261 | GSFS261 | GSF261 | 1-1/16 | 1       | 2-1/4   | 2-3/4  | 5/8   | •     | •  | •  |
| 7/8   | SFS281        | SF281 | GSFS281 | GSF281 | 1-5/32 | 1-1/8   | 2-1/4   | 2-3/4  | 23/32 | •     | •  | •  |
| 15/16 | SFS301        | SF301 | GSFS301 | GSF301 | 1-1/4  | 1-3/16  | 2-1/4   | 2-3/4  | 23/32 |       | •  |    |
| 1     | SFS321        | SF321 | GSFS321 | GSF321 | 1-5/16 | 1-1/4   | 2-1/4   | 2-3/4  | 13/16 |       | •  |    |

ASME®/ANSI® B107.1

Sets include magnetic storage tray.

## FLANK DRIVE® LOW-PROFILE SOCKETS



### Low-Profile Socket Sets, mm

| <br> | Set Contains: |       |      |      |      | 210RAF5MA* |     | 210RAFMA* |    | 209RFSM |  |
|------|---------------|-------|------|------|------|------------|-----|-----------|----|---------|--|
|      | 6             | 12    | A    | B    | C    | D          | E   | 6         | 12 | 6       |  |
| 8    | RFSM8         | RFM8  | 11.6 | 16.5 | —    | 16.8       | 3.8 | •         | •  | •       |  |
| 9    | RFSM9         | RFM9  | 13.0 | 16.5 | —    | 17.0       | 4.1 |           |    |         |  |
| 10   | RFSM10        | RFM10 | 14.3 | 16.5 | —    | 17.3       | 4.3 | •         | •  | •       |  |
| 11   | RFSM11        | RFM11 | 16.0 | 16.5 | —    | 17.7       | 4.8 | •         | •  | •       |  |
| 12   | RFSM12        | RFM12 | 17.2 | 16.5 | 9.8  | 18.1       | 5.1 | •         | •  | •       |  |
| 13   | RFSM13        | RFM13 | 18.0 | 17.2 | 10.3 | 18.5       | 5.6 | •         | •  | •       |  |
| 14   | RFSM14        | RFM14 | 19.6 | 18.8 | 10.5 | 18.7       | 6.1 | •         | •  | •       |  |
| 15   | RFSM15        | RFM15 | 20.4 | 19.6 | 10.8 | 19.1       | 6.6 | •         | •  | •       |  |
| 16   | RFSM16        | RFM16 | 21.1 | 20.4 | 11.4 | 19.6       | 7.1 | •         | •  | •       |  |
| 17   | RFSM17        | RFM17 | 22.8 | 22.0 | 11.9 | 20.1       | 7.4 | •         | •  | •       |  |
| 18   | RFSM18        | RFM18 | 24.3 | 23.6 | 12.5 | 20.8       | 7.9 | •         | •  | •       |  |
| 19   | RFSM19        | RFM19 | 25.1 | 16.5 | 13.3 | 21.5       | 8.2 |           |    |         |  |

\*Set includes RAF80A ratchet

Sets include storage tray.

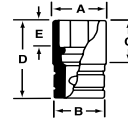
# FLANK DRIVE® LOW-PROFILE SOCKETS



RF181



210RARFA



210RARFA  
Set Contains:

209RF

## Low-Profile Socket Sets, inches

|       | 12    | A   | B   | C   | D   | E   | 12 | 12 |
|-------|-------|-----|-----|-----|-----|-----|----|----|
| 1/4   | RF081 | .46 | .65 | —   | .66 | .11 | •  | •  |
| 5/16  | RF101 | .46 | .65 | —   | .66 | .15 | •  | •  |
| 11/32 | RF111 | .49 | .65 | —   | .68 | .17 |    |    |
| 3/8   | RF121 | .56 | .65 | —   | .69 | .18 | •  | •  |
| 7/16  | RF141 | .61 | .65 | —   | .70 | .19 | •  | •  |
| 1/2   | RF161 | .71 | .69 | .39 | .39 | .72 | •  | •  |
| 9/16  | RF181 | .77 | .74 | .42 | .75 | .24 | •  | •  |
| 5/8   | RF201 | .83 | .80 | .47 | .79 | .28 | •  | •  |
| 11/16 | RF221 | .93 | .90 | .49 | .81 | .30 | •  | •  |
| 3/4   | RF241 | .99 | .96 | .50 | .82 | .31 | •  | •  |

Sets include RAF80A ratchet and storage tray.

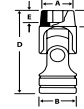
# FLANK DRIVE® UNIVERSAL SOCKETS



FUM18A



206FSUMA



206FSUMA  
Set Contains:

209FUMY

## Shallow, mm, Chrome

| mm | 6       | 12     | A    | B    | C    | D    | E    | 6 | 12 |
|----|---------|--------|------|------|------|------|------|---|----|
| 8  | FSUM8A  | —      | 11.9 | 17.2 | —    | 43.1 | 6.4  |   |    |
| 10 | FSUM10A | FUM10A | 14.0 | 18.1 | —    | 43.5 | 6.4  | • | •  |
| 12 | FSUM12A | FUM12A | 16.8 | 18.1 | —    | 45.5 | 7.9  | • | •  |
| 13 | FSUM13A | FUM13A | 18.1 | 18.1 | —    | 45.5 | 7.9  | • | •  |
| 14 | FSUM14A | FUM14A | 18.9 | 18.1 | —    | 47.9 | 8.9  | • | •  |
| 15 | FSUM15A | —      | 20.6 | 19.1 | 26.2 | 46.0 | 8.7  | • | •  |
| 16 | FSUM16A | FUM16A | 21.4 | 19.1 | 27.4 | 46.8 | 9.9  | • | •  |
| 17 | FSUM17A | FUM17A | 23.0 | 19.1 | 29.4 | 49.2 | 10.3 | • | •  |
| 18 | FSUM18A | FUM18A | 24.6 | 19.1 | 29.4 | 49.2 | 10.3 |   | •  |
| 19 | FSUM19A | FUM19A | 25.4 | 19.1 | 31.0 | 50.8 | 11.5 |   | •  |
| 22 | FSUM22A | —      | 29.4 | 19.1 | 32.5 | 52.4 | 12.7 |   |    |

Sets shown include storage tray.



FU26B



206AFSA

206AFSA  
Set Contains:

212FUY

206FUA

## Shallow, Inches, Chrome

|       | 6     | 12    | A      | B     | C       | D       | E     | 6 | 12 | 12 |
|-------|-------|-------|--------|-------|---------|---------|-------|---|----|----|
| 5/16  | FS10B | FU10B | 15/32  | 11/16 | —       | 1-5/8   | 1/4   |   | •  |    |
| 3/8   | FS12B | FU12B | 17/32  | 11/16 | —       | 1-5/8   | 1/4   |   | •  |    |
| 7/16  | FS14B | FU14B | 5/8    | 11/16 | —       | 1-5/8   | 9/32  | • | •  | •  |
| 1/2   | FS16B | FU16B | 23/32  | 11/16 | —       | 1-11/16 | 9/32  | • | •  | •  |
| 9/16  | FS18B | FU18B | 25/32  | 3/4   | 1-1/32  | 1-13/16 | 21/64 | • | •  | •  |
| 5/8   | FS20B | FU20B | 27/32  | 3/4   | 1-1/32  | 1-13/16 | 23/64 | • | •  | •  |
| 11/16 | FS22B | FU22B | 15/16  | 3/4   | 1-11/64 | 1-15/16 | 25/64 | • | •  | •  |
| 3/4   | FS24B | FU24B | 1      | 3/4   | 1-7/32  | 2       | 27/64 | • | •  | •  |
| 13/16 | —     | FU26B | 1-1/16 | 3/4   | 1-9/32  | 2-1/16  | 15/32 |   | •  |    |
| 7/8   | —     | FU28B | 1-5/32 | 3/4   | 1-9/32  | 2-1/16  | 33/64 |   | •  |    |
| 15/16 | —     | FU30A | 1-1/4  | 3/4   | 1-33/64 | 2-9/32  | 35/64 |   | •  |    |
| 1     | —     | FU32A | 1-5/16 | 3/4   | 1-33/64 | 2-9/32  | 9/16  |   | •  |    |



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

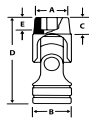
# FLANK DRIVE® UNIVERSAL SOCKETS



SFSUM14



206SFSUM



FDSU22



207FSU

## Deep, mm, Chrome

Set Contains:

206SFSUM

| mm | 6       | A    | B    | C    | D    | E    | 6 |
|----|---------|------|------|------|------|------|---|
| 8  | SFSUM8  | 11.5 | 18.3 | 42.5 | 61.9 | 6.7  |   |
| 10 | SFSUM10 | 14.3 | 18.3 | 42.5 | 61.9 | 7.5  | • |
| 11 | SFSUM11 | 15.5 | 18.3 | 27.0 | 61.9 | 9.5  |   |
| 12 | SFSUM12 | 17.1 | 18.3 | 27.0 | 61.9 | 9.5  | • |
| 13 | SFSUM13 | 18.3 | 18.3 | 26.2 | 61.1 | 8.3  | • |
| 14 | SFSUM14 | 19.8 | 18.3 | 26.2 | 61.1 | 9.1  | • |
| 15 | SFSUM15 | 20.6 | 19.1 | 25.0 | 61.9 | 9.5  | • |
| 16 | SFSUM16 | 21.4 | 19.1 | 25.0 | 61.9 | 10.3 |   |
| 17 | SFSUM17 | 23.0 | 19.1 | 22.6 | 61.9 | 10.7 | • |
| 18 | SFSUM18 | 24.6 | 19.1 | 22.6 | 61.9 | 10.7 |   |
| 19 | SFSUM19 | 25.4 | 19.1 | 22.6 | 61.9 | 11.9 |   |

Set includes storage tray.

## Deep, Inches, Chrome

Set Contains:

207FSU

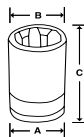
| in    | 6     | 12     | A     | B     | C       | D       | E     | 6 |
|-------|-------|--------|-------|-------|---------|---------|-------|---|
| 3/8   | FSU12 | FDSU12 | 9/16  | 11/16 | —       | 2-13/32 | 3/8   | • |
| 7/16  | FSU14 | FDSU14 | 5/8   | 11/16 | —       | 2-13/32 | 7/16  | • |
| 1/2   | FSU16 | FDSU16 | 23/32 | 11/16 | —       | 2-13/32 | 15/32 | • |
| 9/16  | FSU18 | —      | 25/32 | 3/4   | 63/64   | 2-7/16  | 33/64 | • |
| 5/8   | FSU20 | —      | 27/32 | 3/4   | 63/64   | 2-7/16  | 35/64 | • |
| 11/16 | FSU22 | —      | 15/16 | 3/4   | 57/64   | 2-7/16  | 35/64 | • |
| 3/4   | FSU24 | —      | 1     | 3/4   | 57/64   | 2-7/16  | 35/64 | • |
| 9/16  | —     | FDSU18 | 25/32 | 3/4   | 1-15/64 | 2       | 3/8   |   |
| 5/8   | —     | FDSU20 | 27/32 | 3/4   | 1-5/16  | 2-3/32  | 15/32 |   |
| 11/16 | —     | FDSU22 | 15/16 | 3/4   | 1-25/64 | 2-5/32  | 33/64 |   |
| 3/4   | —     | FDSU24 | 1     | 3/4   | 1-15/32 | 2-1/4   | 39/64 |   |

Set includes storage tray.

# TORX® SOCKETS



207RFLE



## Low-Profile TORX®

Set Contains:

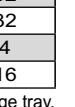
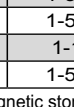
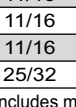
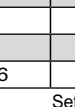
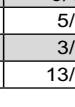
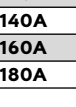
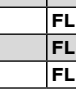
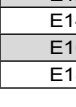
207RFLE

| #  | Stock No. | A    | B    | C    |   |
|----|-----------|------|------|------|---|
| 8  | RFLE80    | 17.2 | 11.4 | 17.3 | • |
| 10 | RFLE100   | 17.2 | 12.8 | 20.6 | • |
| 11 | RFLE110   | 17.2 | 14.3 | 21.1 | • |
| 12 | RFLE120   | 17.2 | 15.6 | 21.7 | • |
| 14 | RFLE140   | 17.2 | 16.9 | 23.0 | • |
| 16 | RFLE160   | 17.9 | 18.7 | 24.3 | • |
| 18 | RFLE180   | 19.5 | 20.3 | 25.4 | • |

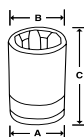
Set includes magnetic storage tray.



FLE160A



213AFLEY



## Shallow TORX®, Chrome

| #   | Stock No. | A     | B     | C      |
|-----|-----------|-------|-------|--------|
| E8  | FLE80A    | 15/32 | 11/16 | 1-5/32 |
| E10 | FLE100A   | 1/2   | 11/16 | 1-5/32 |
| E11 | FLE110A   | 9/16  | 11/16 | 1-5/32 |
| E12 | FLE120A   | 9/16  | 11/16 | 1-5/32 |
| E14 | FLE140A   | 5/8   | 11/16 | 1-5/32 |
| E16 | FLE160A   | 3/4   | 11/16 | 1-1/4  |
| E18 | FLE180A   | 13/16 | 25/32 | 1-5/16 |

Set includes magnetic storage tray.

### 213AFLEY 13 pc Combination Drive TORX® Shallow Socket Set

- Includes (13) sockets— 1/4" drive (E4–E10), 3/8" drive (E11–E14), and 1/2" drive (E16–E24)





**FLEP180**

**TORX Plus®, Chrome**

| #    | Stock No.      | A   | B     | C      |
|------|----------------|-----|-------|--------|
| EP18 | <b>FLEP180</b> | 3/4 | 13/16 | 1-5/16 |

**FLEP180 3/8" Drive TORX® Plus® EP18 Socket**

- Use to remove seat hold-down nuts on 1999 and later GM® full-size pickup trucks
- 3/8" square drive



**FLEL80**

**Long TORX®, Chrome**

- For Delco® alternator Model CS130 found on both GM® passenger and light trucks

| #  | Stock No.     | A     | B    | C |
|----|---------------|-------|------|---|
| E8 | <b>FLEL80</b> | 19/32 | 7/16 | 5 |



**FLCE120**

**Shallow TORX® with Countersink**

| #   | Stock No.      | A     | B     | C      |
|-----|----------------|-------|-------|--------|
| E12 | <b>FLCE120</b> | 19/32 | 11/16 | 1-5/32 |
| E14 | <b>FLCE140</b> | 11/16 | 5/8   | 1-5/32 |
| E16 | <b>FLCE160</b> | 23/32 | 3/4   | 1-1/4  |
| E18 | <b>FLCE180</b> | 25/32 | 13/16 | 1-5/16 |

- **FLCE120 3/8" Drive TORX® E12 Socket with Countersink**
- Use to remove/install fasteners that hold window regulators in place for BMW® 5 and 7 Series

**FLCE140 3/8" Drive TORX® E14 Socket with Countersink**

- For connecting rod cap bolts on various Toyota® and Scion® vehicles
- The FLCE140 is similar to Toyota® special tool number 09013-1C551

**FLCE160 3/8" Drive TORX® E16 Socket with Countersink**

- For cam sprocket on 2.5L FB engine on 2011 and current Subaru® Forester® vehicles
- For camshaft timing gear assembly on various 2012 Toyota® vehicles
- Similar to Toyota® special tool number 09013-1C560

**FLCE180 3/8" Drive TORX® E18 Socket with Countersink**

- For spider gear in the rear differential on a 2010-current Chevrolet® Camaro® vehicles



**GFLEPL180**



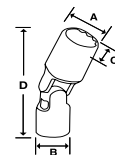
**FLEPL140**

**TORX Plus® with Countersink**

| #    | Stock No.       | Industrial Stock No. | A     | B     | C      |
|------|-----------------|----------------------|-------|-------|--------|
| 8EP  | <b>FLEPL80</b>  | <b>GFLEPL80</b>      | 7/16  | 11/16 | 1-5/32 |
| 10EP | <b>FLEPL100</b> | <b>GFLEPL100</b>     | 1/2   | 11/16 | 1-5/32 |
| 12EP | <b>FLEPL120</b> | <b>GFLEPL120</b>     | 19/32 | 11/16 | 1-5/32 |
| 14EP | <b>FLEPL140</b> | <b>GFLEPL140</b>     | 5/8   | 11/16 | 1-5/32 |
| 16EP | <b>FLEPL160</b> | <b>GFLEPL160</b>     | 3/4   | 23/32 | 1-1/4  |
| 18EP | <b>FLEPL180</b> | <b>GFLEPL180</b>     | 13/16 | 25/32 | 1-5/16 |



**FSE180**



**SFLE120**

**Deep TORX®**

| Stock No.      | Description                      |
|----------------|----------------------------------|
| <b>SFLE120</b> | 3/8" Drive TORX® E12 Deep Socket |

**Universal TORX®, Chrome**

| #   | Stock No.     | A     | B     | C       | D       |
|-----|---------------|-------|-------|---------|---------|
| E8  | <b>FSE80</b>  | 3/8   | 11/16 | 9/32    | 1-5/8   |
| E10 | <b>FSE100</b> | 15/32 | 11/16 | 5/16    | 1-11/16 |
| E12 | <b>FSE120</b> | 9/16  | 11/16 | 11/32   | 1-25/32 |
| E14 | <b>FSE140</b> | 5/8   | 11/16 | 13/32   | 1-7/8   |
| E16 | <b>FSE160</b> | 23/32 | 3/4   | 1-1/4   | 2-1/32  |
| E18 | <b>FSE180</b> | 13/16 | 3/4   | 1-1/4   | 2-1/32  |
| E20 | <b>FSE200</b> | 15/16 | 3/4   | 1-19/64 | 2-3/32  |

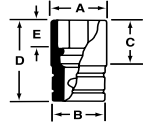


- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## SPLINE SOCKETS



Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener over a wider area to minimize stress, allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with AS954, Military Spec.

MS-33787 and MIL-W-8982. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



FES120B

### Shallow, Inches, Chrome (3/8")

|  |  | Stock No. | A     | B     | C     | D      | E     |
|---|---|-----------|-------|-------|-------|--------|-------|
| #12   | 3/8   | FES120B   | 17/32 | 21/32 | 15/32 | 1-1/16 | 11/32 |
| #14   | 7/16  | FES140B   | 5/8   | 11/16 | 1/2   | 1-3/32 | 7/16  |
| #16   | 1/2   | FES160B   | 23/32 | 23/32 | —     | 1-3/32 | —     |
| #18   | 9/16  | FES180B   | 13/16 | 13/16 | —     | 1-3/32 | 15/32 |
| #20   | 5/8   | FES200B   | 7/8   | 7/8   | —     | 2-3/8  | 9/16  |



#### 209TFES 9 pc Combination Drive SAE Shallow Spline Socket Set

- Includes 1/4" drive TES7B–TES10B and 3/8" drive FES120B–FES200B Shallow Spline Sockets (9 pc) (#7–20, 7/32–5/8") in magnetic socket tray



FEL120B

### Deep, Inches, Chrome (3/8")

|  |  | Stock No. | A     | B     | C       | D     | E     |
|---|---|-----------|-------|-------|---------|-------|-------|
| #12   | 3/8   | FEL120B   | 17/32 | 21/32 | 1-17/32 | 2-1/8 | 11/32 |
| #14   | 7/16  | FEL140B   | 5/8   | 11/16 | 1-17/32 | 2-1/8 | 7/16  |
| #16   | 1/2   | FEL160B   | 23/32 | 23/32 | 1-5/8   | 2-1/8 | 7/16  |
| #18   | 9/16  | FEL180B   | 13/16 | 13/16 | —       | 2-3/8 | 15/32 |
| #20   | 5/8   | FEL200B   | 7/8   | 7/8   | —       | 2-3/8 | 9/16  |

#### 207TFEL 7 pc Combination Drive SAE Deep Spline Socket Set



- Includes 1/4" drive TEL7B–TEL10B and 3/8" drive FEL120B–FEL200B Deep Spline Sockets (7 pc) (#7–20, 7/32–5/8") in magnetic socket tray



FELM10B

### Deep, Metric, Chrome (3/8")



#### 3/8" Drive Metric #10, 10 mm Hex, Deep Spline Socket

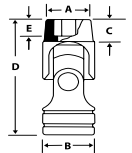
|  |  | Stock No. | A    | B    | C    | D    | E    |
|---|---|-----------|------|------|------|------|------|
| #10   | 10  | FELM10B   | 14.5 | 16.8 | 40.4 | 54.0 | 10.0 |




FESU120

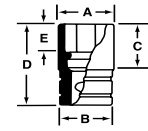
### Shallow Universal, Inches, Chrome (3/8")

|  |  | Stock No. | A     | B   | C     | D       | E     |
|---|---|-----------|-------|-----|-------|---------|-------|
| #12   | 3/8   | FESU120   | 9/16  | 3/4 | 5/8   | 1-31/32 | 11/32 |
| #14   | 7/16  | FESU140   | 21/32 | 3/4 | 11/16 | 2-1/32  | 13/32 |
| #16   | 1/2   | FESU160   | 3/4   | 3/4 | 11/16 | 2-1/16  | 7/16  |
| #18   | 9/16  | FESU180   | 27/32 | 3/4 | 23/32 | 2-1/8   | 7/16  |



## Double Square, Inches, Chrome

|  | Stock No.   | A      | B     | C     | D     | E    |
|---|-------------|--------|-------|-------|-------|------|
| 1/4   | <b>F308</b> | 1/2    | 21/32 | 3/8   | 27/32 | 7/32 |
| 5/16  | <b>F310</b> | 9/16   | 21/32 | 3/8   | 27/32 | 1/4  |
| 3/8   | <b>F312</b> | 21/32  | 11/16 | 15/32 | 15/16 | 9/32 |
| 7/16  | <b>F314</b> | 25/32  | 11/16 | 17/32 | 1     | 5/16 |
| 1/2   | <b>F316</b> | 7/8    | 25/32 | 17/32 | 1     | 5/16 |
| 9/16  | <b>F318</b> | 1      | 29/32 | 19/32 | 1-1/8 | 7/16 |
| 5/8   | <b>F320</b> | 1-1/16 | 31/32 | 19/32 | 1-1/8 | 7/16 |

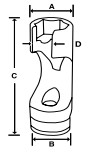


**F308**

## Flank Drive® Flare Nut Sockets, mm



**FRXM10**

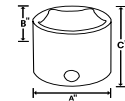



Set Contains:

**210FRXM**



**B2190**



|  | Stock No.     | A    | B    | C    | D    |   |
|---|---------------|------|------|------|------|---|
| 10  | <b>FRXM10</b> | 16.9 | 18.3 | 53.3 | 7.2  | • |
| 11  | <b>FRXM11</b> | 18.1 | 18.7 | 53.3 | 8.3  | • |
| 12  | <b>FRXM12</b> | 19.3 | 18.3 | 53.3 | 8.8  | • |
| 13  | <b>FRXM13</b> | 20.4 | 19.1 | 62.5 | 9.4  | • |
| 14  | <b>FRXM14</b> | 22.0 | 20.5 | 62.5 | 10.4 | • |
| 15  | <b>FRXM15</b> | 22.6 | 21.0 | 71.6 | 11.2 | • |
| 16  | <b>FRXM16</b> | 23.5 | 21.9 | 71.6 | 11.7 | • |
| 18  | <b>FRXM18</b> | 25.9 | 24.3 | 83.8 | 13.5 | • |
| 19  | <b>FRXM19</b> | 26.7 | 25.1 | 89.9 | 14.2 | • |

Set includes magnetic storage tray.




**207FRX**

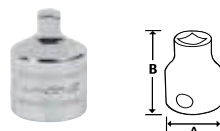
Set Contains:

**207FRX**

## Flank Drive® Flare Nut Sockets, inches


|  | Stock No.     | A      | B     | C       | D     |   |
|---|---------------|--------|-------|---------|-------|---|
| 3/8   | <b>FRX121</b> | 5/8    | 3/4   | 2-3/32  | 9/32  | • |
| 7/16  | <b>FRX141</b> | 23/32  | 3/4   | 2-3/32  | 11/32 | • |
| 1/2   | <b>FRX161</b> | 13/16  | 3/4   | 2-1/8   | 3/8   | • |
| 9/16  | <b>FRX181</b> | 7/8    | 13/16 | 2-15/32 | 13/32 | • |
| 5/8   | <b>FRX201</b> | 15/16  | 7/8   | 2-27/32 | 15/32 | • |
| 11/16   | <b>FRX221</b> | 1      | 15/16 | 3-7/32  | 1/2   | • |
| 3/4   | <b>FRX241</b> | 1-1/16 | 1     | 3-11/32 | 9/16  | • |
| 7/8   | <b>FRX281</b> | 1-7/32 | 2-58  | 3-11/32 | 21/32 | • |

Set includes magnetic storage tray.



**PMM406A**

## Pipe Plug, mm, Chrome

|  | External Stock No. | A    | B    | Internal Stock No. | A    | B    |
|---|--------------------|------|------|--------------------|------|------|
| 6   | <b>PMM406A</b>     | 16.4 | 31.0 | <b>PMP406A</b>     | 17.2 | 25.8 |
| 8   | <b>PMM408A</b>     | 17.2 | 31.0 | —                  |      |      |
| 10  | <b>PMM410A</b>     | 17.2 | 28.4 | <b>PMP410A</b>     | 18.8 | 25.4 |

## Flank Drive® Pentagon Socket (5-Point)

A specialty socket for servicing recessed 5-point nuts found on tamper-resistant Buffalo covers used by gas, electric and some water companies to protect shutoff gates.

| Stock No.    | A     | B   | C      |
|--------------|-------|-----|--------|
| <b>B2190</b> | 1-1/8 | 1/2 | 1-1/16 |



**GF22**

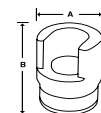
## Drag Link, Industrial

Applications include use on the engine oil fill cap on Kawasaki® UN1500, UN1600 and UN2000 motorcycles.

| Stock No.   | A     | B    | C     |
|-------------|-------|------|-------|
| <b>GF22</b> | 11/16 | 7/64 | 1-1/4 |



**FD120**



## WEATHERHead® Fittings

| Size, inches | Stock No.    | A      | B     |
|--------------|--------------|--------|-------|
| 3/8          | <b>FD120</b> | 11/16  | 1-1/4 |
| 7/16         | <b>FD140</b> | 13/16  | 1-1/4 |
| 15/32        | <b>FD150</b> | 7/8    | 1-1/4 |
| 1/2          | <b>FD160</b> | 15/16  | 1-1/4 |
| 17/32        | <b>FD170</b> | 1      | 1-1/4 |
| 9/16         | <b>FD180</b> | 1-1/16 | 1-1/4 |
| 19/32        | <b>FD190</b> | 1-1/16 | 1-1/4 |
| 21/32        | <b>FD210</b> | 1-3/16 | 1-3/8 |
| 11/16        | <b>FD220</b> | 1-3/16 | 1-3/8 |
| 3/4          | <b>FD240</b> | 1-1/4  | 1-3/8 |
| 25/32        | <b>FD250</b> | 1-1/4  | 1-3/8 |



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## SPECIAL APPLICATION SOCKETS




211PPPMY

### 211PPPMY 11 pc 3/8" Drive SAE Internal/External Pipe Plug Socket Set

- Includes (11) Internal/External Pipe Plug Sockets (3/16–3/8")

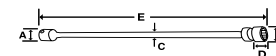
### Pipe Plug, Inches, Chrome

|  | External Stock No. | B     | Internal Stock No. | B |
|--|--------------------|-------|--------------------|---|
| 3/16   | PPM406A            | 1-1/8 | —                  |   |
| 1/4  | PPM408A            | 1-1/8 | PP408A             | 1 |
| 9/32   | PPM409A            | 1-1/8 | PP409A             | 1 |
| 5/16   | PPM410A            | 1-1/8 | PP410A             | 1 |
| 11/32  | PPM411A            | 1-1/8 | PP411A             | 1 |
| 3/8  | PPM412A            | 1-1/8 | PP412A             | 1 |





Set includes magnetic storage tray.



206PFSXM



### Swivel Ball Extension Sockets, mm, Industrial

|  |  |  | A    | B    | C    | D   | E     |  |
|---|---|---|------|------|------|-----|-------|---|
| 8   | PFSXM908B   | —   | 19.1 | 11.4 | 9.5  | 6.3 | 243.4 | •   |
| 10  | PFSXM910B   | —   | 19.1 | 14.4 | 9.5  | 5.6 | 243.4 | •   |
| 11  | PFSXM911B   | —   | 19.1 | 15.6 | 9.5  | 6.3 | 243.8 | •   |
| 12  | PFSXM912B   | —   | 19.1 | 16.9 | 9.5  | 6.8 | 244.6 | •   |
| 13  | PFSXM913B   | —   | 19.1 | 18.4 | 12.4 | 7.6 | 245.9 | •   |
| 14  | PFSXM914B   | —   | 19.1 | 19.8 | 12.4 | 9.1 | 247.9 | •   |
| 15  | PFSXM915B   | —   | 19.1 | 20.4 | 12.4 | 9.1 | 247.4 |   |
| 13  | —   | PFLXM13B  | —    | —    | —    | —   | —     |   |

Set Contains:

206PFSXM

Set includes storage tray.

### PFSXM910B 3/8" Drive 6-Point Metric 10 mm Swivel Ball Extension Power Socket

### PFSXM912B 3/8" Drive 6-Point Metric 12 mm Swivel Ball Extension Power Socket

- Applications include transmission pan bolts on Toyota® and Lexus® vehicles; faster and easier intake removal on Volvo® vehicles; several underdash applications
- Great for difficult access where the use of one tool works better than three (socket, swivel and extension)
- Flank Drive® wrenching configuration where the socket grips the fastener on the flanks/flats increasing torque by 15–20%
- Machined from tough alloy steel
- Use with hand and non-impact tools only

### TORX® Swivel Ball Extension Sockets, Industrial

| Size | Stock No. | A   | B    | C   | D   | E     |   |
|------|-----------|-----|------|-----|-----|-------|---|
| E8   | PFSXE908B | 3/4 | 7/16 | 3/8 | 1/4 | 9-1/2 | • |
| E10  | PFSXE910B | 3/4 | 1/2  | 3/8 | 1/4 | 9-1/2 | • |
| E12  | PFSXE912B | 3/4 | 5/8  | 1/2 | 3/8 | 9-1/2 | • |
| E14  | PFSXE914B | 3/4 | 5/8  | 1/2 | 3/8 | 9-5/8 | • |

Set Contains:

204PFSXEBR



204PFSXEBR

### 204PFSXEBR 4 pc 3/8" Drive External TORX® Power Swivel Extension Socket Foam Set

- Great for difficult access where the use of one tool works better than three (socket, swivel and extension)
- 30° uninterrupted swivel action means greater accessibility in tight quarters, allowing for easier, faster removal of stubborn fasteners, thus saving time
- Laser-welded pivot pin allows smooth, full 30° swivel action for efficient power transfer at any angle with no loss in torque output, prolonging the life of the socket
- Spring-loaded adjustable swivel pre-positions the socket for quick accessibility
- Socket end is manufactured to exact tolerances with a shallow lead-in countersink which ensures a tight fit to regular height and low profile fasteners reducing the chance of slippage or damage
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Industrial finish helps protect against corrosion
- Modular foam organizer is designed for maximum tool concentration on the smallest possible footprint and can be reconfigured in the drawer to accommodate new tool sets
- Contrasting colors provide visual control and eliminate time spent searching for missing tools
- Protects your investment and increases productivity
- Closed-cell cross-linked foam for superior performance and durability—resists oils, solvents and fuels, and is easy to clean

## TORQUE ADAPTORS

- Precision crafted from special alloy steel and heat-treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas



208FRDHM

### Standard, mm, Chrome (3/8")

| Working Torque, in-lb | mm | 12      | A    | B    | C    | D    | E    | 12 |
|-----------------------|----|---------|------|------|------|------|------|----|
| 212                   | —  | FRDHM8  | 12.1 | 19.1 | 6.2  | 10.9 | 50.8 |    |
| 420                   | 10 | FRDHM10 | 17.1 | 18.8 | 7.8  | 11.0 | 50.8 | •  |
| 690                   | 12 | FRDHM12 | 18.8 | 18.8 | 8.2  | 11.0 | 50.8 | •  |
| 720                   | 13 | FRDHM13 | 21.0 | 18.8 | 7.8  | 11.0 | 50.8 | •  |
| 1,050                 | 14 | FRDHM14 | 21.0 | 18.8 | 9.4  | 11.0 | 50.8 | •  |
| 1,200                 | 15 | FRDHM15 | 25.1 | 18.8 | 7.8  | 11.0 | 50.8 | •  |
| 1,400                 | 16 | FRDHM16 | 22.6 | 18.8 | 11.0 | 11.0 | 50.8 | •  |
| 804                   | 17 | FRDHM17 | 25.1 | 18.8 | 12.4 | 10.9 | 50.8 |    |
| 1,400                 | 18 | FRDHM18 | 22.4 | 18.8 | 13.3 | 11.0 | 50.8 | •  |
| 1,400                 | 19 | FRDHM19 | 27.4 | 18.8 | 13.3 | 11.0 | 50.8 | •  |
| 2,000                 | 21 | FRDHM21 | 30.9 | 18.8 | 10.9 | 10.9 | 50.8 |    |

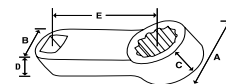


FTA35

- Design features radius edges that will resist damage/nicks
- Center-to-center length on adaptor for easy torque calculations
- Larger sizes feature thicker construction for strength



208FRDH



208FRDH

### Standard, Inches, Chrome (3/8") Set Contains:

| Working Torque, in-lb | 12    | A       | B     | C    | D     | E    | 12  |
|-----------------------|-------|---------|-------|------|-------|------|-----|
| 190                   | 5/16  | FRDH101 | 0.475 | .750 | 1/4   | 7/16 | 2   |
| 420                   | 3/8   | FRDH121 | 0.570 | .750 | 5/16  | 7/16 | 2   |
| 500                   | 7/16  | FRDH141 | 0.655 | .750 | 11/32 | 7/16 | 2   |
| 710                   | 1/2   | FRDH161 | 0.740 | .750 | 11/32 | 7/16 | 2   |
| 1,050                 | 9/16  | FRDH181 | 0.825 | .750 | 3/8   | 7/16 | 2   |
| 1,400                 | 5/8   | FRDH201 | 0.890 | .750 | 7/16  | 7/16 | 2   |
| 1,400                 | 11/16 | FRDH221 | 0.989 | .750 | 1/2   | 7/16 | 2   |
| 1,400                 | 3/4   | FRDH241 | 1.080 | .750 | 1/2   | 7/16 | 2   |
| 2,000                 | 7/8   | FRDH281 | 1.28  | 3/4  | 7/16  | 7/16 | 2.0 |
| 2,706                 | 15/16 | FRDH301 | 1.374 | .750 | 7/16  | 7/16 | 2   |

### Torque Adaptor

#### FTA35 3/8" Drive Female/Male Torque Adaptor

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- 3.5" center-to-center

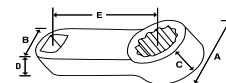
## SPLINE TORQUE ADAPTORS

### Spline, Low-Profile, inches

- Precision crafted from special alloy steel and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Unique spline wrenching configuration can be used on ordinary 6- and 12-point fasteners
- Ideal for use with torque wrenches
- Will save time and avoid clearance issues when working on propeller assemblies
- Works on a wide variety of Lycoming® and Continental® engines used in Piper®, Cessna® and Mooney® aircraft



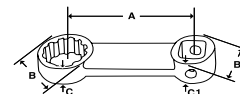
FRESL24



| 12    | Stock No. | Working Torque, in-lb | A             | B            | C            | D            | E        |
|-------|-----------|-----------------------|---------------|--------------|--------------|--------------|----------|
| 7/16  | FRESL14   | 224                   | 3/4 (19.05)   | 3/4 (19.05)  | 3/16 (4.76)  | 7/16 (11.11) | 2 (50.8) |
| 1/2   | FRESL16   | 312                   | 25/32 (19.84) | 3/4 (19.05)  | 3/16 (4.76)  | 7/16 (11.11) | 2 (50.8) |
| 9/16  | FRESL18   | 360                   | 13/16 (20.64) | 3/4 (19.05)  | 3/16 (4.76)  | 7/16 (11.11) | 2 (50.8) |
| 5/8   | FRESL20   | 480                   | 29/32 (22.8)  | 47/64 (18.8) | 3/16 (4.7)   | 7/16 (10.9)  | 2 (50.8) |
| 11/16 | FRESL22   | 556                   | 1 (25.1)      | 47/64 (18.8) | 3/16 (4.7)   | 7/16 (10.9)  | 2 (50.8) |
| 3/4   | FRESL24   | 465                   | 1-5/64 (50.2) | 3/4 (19.05)  | 7/16 (11.11) | 3/16 (4.76)  | 2 (50.8) |
| 7/8   | FRESL28   | 605                   | 1-1/4 (31.75) | 3/4 (19.05)  | 7/16 (11.11) | 3/16 (4.76)  | 2 (50.8) |
| 15/16 | FRESL30   | 888                   | 1-5/16 (33.9) | 47/64 (18.8) | 3/16 (4.7)   | 7/16 (10.9)  | 2 (50.8) |

### Spline, Inches, Chrome (3/8")

| #   | 12    | Stock No. | Working Torque, in-lb | A | B-B1      | C-C1      |
|-----|-------|-----------|-----------------------|---|-----------|-----------|
| #7  | 7/32  | FRES7     | 140                   | 2 | .375-.750 | 1/4-7/16  |
| #8  | 1/4   | FRES8     | 195                   | 2 | .400-.750 | 1/4-7/16  |
| #9  | 9/32  | FRES9     | 220                   | 2 | .445-.750 | 1/4-7/16  |
| #10 | 5/16  | FRES10    | 250                   | 2 | .490-.750 | 1/4-7/16  |
| #12 | 3/8   | FRES12    | 515                   | 2 | .590-.750 | 5/16-7/16 |
| #14 | 7/16  | FRES14    | 875                   | 2 | .680-.750 | 5/16-7/16 |
| #16 | 1/2   | FRES16    | 1,575                 | 2 | .745-.750 | 5/16-7/16 |
| #18 | 9/16  | FRES18    | 1,750                 | 2 | .825-.750 | 3/8-7/16  |
| #20 | 5/8   | FRES20    | 1,750                 | 2 | .895-.750 | 3/8-7/16  |
| #22 | 11/16 | FRES22    | 1,750                 | 2 | .997-.750 | 1/2-7/16  |
| #24 | 3/4   | FRES24    | 1,750                 | 2 | 1.08-.750 | 9/16-7/16 |



FRES10



**WARNING**

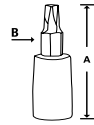


- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## TORX® BIT SOCKETS



207EFTXY



207EFTXY

### ★ TORX®/Standard, Industrial (3/8")

Set Contains:

| #   | Stock No. | Stock No. | A      | B       |   |
|-----|-----------|-----------|--------|---------|---|
| T27 | FTX27E    | GFTX27E   | 1-3/4  | FTX27E2 | • |
| T30 | FTX30E    | GFTX30E   | 1-3/4  | FTX30E2 | • |
| T40 | FTX40E    | GFTX40E   | 1-3/4  | FTX40E2 | • |
| T45 | FTX45E    | GFTX45E   | 2-1/16 | FTX45E2 | • |
| T50 | FTX50E    | GFTX50E   | 2-1/16 | FTX50E2 | • |
| T55 | FTX55E    | GFTX55E   | 2-1/32 | FTX55E2 | • |
| T60 | FTX60E    | —         | 2-5/16 | FTX60E2 |   |

Sets shown include storage tray.

| Stock No. | Stock No. | A | B      |         |
|-----------|-----------|---|--------|---------|
| T47       | FTX47E    | — | 2-1/16 | FTX47E2 |

T47 is not a TORX® licensed product.

### 207EFTXY 7 pc 3/8" Drive TORX® Bit Standard Socket Set

- Includes (7) sockets (FTX27E–FTX55E TORX® sockets) plus FTX47E GM® Style Driver (T27–T55 plus GM® style T47)



207EFTXYSE

207EFTXYSE

### ★ TORX®/Stubby, Chrome (3/8")

Set Contains:

| #   | Stock No. | A       | B        |   |
|-----|-----------|---------|----------|---|
| T27 | FTX27SE   | 1-13/32 | FTX27SE2 | • |
| T30 | FTX30SE   | 1-13/32 | FTX30SE2 | • |
| T40 | FTX40SE   | 1-13/32 | FTX40SE2 | • |
| T45 | FTX45SE   | 1-13/32 | FTX45SE2 | • |
| T50 | FTX50SE   | 1-13/32 | FTX50SE2 | • |
| T55 | FTX55SE   | 1-7/16  | FTX55SE2 | • |

Set shown includes magnetic storage tray.

| Stock No. | A       | B       |          |
|-----------|---------|---------|----------|
| T47       | FTX47SE | 1-13/32 | FTX47SE2 |

T47 is not a TORX® licensed product.

### 207EFTXYSE 7 pc 3/8" Drive TORX® Bit Stubby Socket Driver Set

- Includes (7) bit stubby sockets: (6) TORX® (T27, T30, T40, T45, T50 and T55) and (1) T47\*
- Includes magnetic storage tray



211EFTXRTPY

### ★ TORX Plus®/Tamper-Resistant, Chrome (3/8")

| #     | Stock No. | A       | B          |
|-------|-----------|---------|------------|
| 27IPR | FTXR27TPE | 1-3/4   | FTXR27TPE2 |
| 30IPR | FTXR30TPE | 1-3/4   | FTXR30TPE2 |
| 40IPR | FTXR40TPE | 1-3/4   | FTXR40TPE2 |
| 45IPR | FTXR45TPE | 2-1/32  | FTXR45TPE2 |
| 50IPR | FTXR50TPE | 2-5/32  | FTXR50TPE2 |
| 55IPR | FTXR55TPE | 2-11/32 | FTXR55TPE2 |

Set shown includes magnetic storage tray.



FTXL27E

### ★ TORX®/Long, Chrome (3/8")

| #   | Stock No. | A     | B        |
|-----|-----------|-------|----------|
| T27 | FTXL27E   | 4-1/4 | FTXL27E2 |
| T30 | FTXL30E   | 4-1/4 | FTXL30E2 |
| T40 | FTXL40E   | 4-1/4 | FTXL40E2 |
| T45 | FTXL45E   | 4-1/4 | FTXL45E2 |
| T50 | FTXL50E   | 4-1/4 | FTXL50E2 |

Includes storage tray.

### 210EFTXL 10 pc Combination Drive

#### TORX® Bit Long Socket Set

- Includes 1/4" drive (T8–T25) and 3/8" drive (T27–T50) (10 pc)



FTXB27E

### ★ TORX®/Heavy-Duty Removal, Chrome (3/8")

| #   | Stock No. | A       | B        |
|-----|-----------|---------|----------|
| T27 | FTXB27E   | 1-13/16 | FTXB27E2 |
| T30 | FTXB30E   | 1-13/16 | FTXB30E2 |
| T40 | FTXB40E   | 1-13/16 | FTXB40E2 |
| T45 | FTXB45E   | 2-1/16  | FTXB45E2 |
| T50 | FTXB50E   | 2-1/16  | FTXB50E2 |
| T55 | FTXB55E   | 2-1/64  | FTXB55E2 |

Includes magnetic storage tray.

### 209EFTXBY 9 pc Combination Drive TORX®

#### Bit Heavy-Duty Removal Socket Set

- Includes 1/4" drive (T15–T25) and 3/8" drive (T27–T55) (9 pc)
- Tapered profile provides better engagement on stubborn fasteners

### FTXR40TPE 3/8" Drive TORX® Plus® 40IPR Tamper-Resistant Bit Socket Driver

- Quickly removes and replaces the reverse idler shaft on 2001/2002 Ford® Mustang® GT vehicles using the TREMEC3650 manual transmission
- Also use on the camshaft bolts on 2008 Toyota® Tundra® with the 5.7 L engine
- Five-lobe configuration
- 2 pc pinless design holds bit securely in socket while facilitating quick bit replacement
- Cold-formed socket delivers a strong, durable tool
- Chrome plating resists corrosion and clean easily
- For sale to authorized technicians only

### 211EFTXRTPY 11 pc Combination Drive

#### Tamper-Resistant TORX® Plus® Socket Driver Set

- Includes 1/4" drive (8IPR–55IPR) and 3/8" Drive (27IPR–55IPR)
- Applications: 2003 Ford® Mustang® transmissions, 2004 Ford® F-150 transfer case, 2004 Porsche® Cayenne® turbo air sensor, Delphi® and Stanadyne® pumps, Cummins® B and C engine injection pumps and John Deere® diesel injector pumps
- Includes magnetic storage tray

**TORX®/Tamper-Resistant, Chrome (3/8")**

| #   | Stock No. | A      | B        |
|-----|-----------|--------|----------|
| T27 | FTXR27E   | 1-3/4  | FTXR27E2 |
| T30 | FTXR30E   | 1-3/4  | FTXR30E2 |
| T40 | FTXR40E   | 1-3/4  | FTXR40E2 |
| T45 | FTXR45E   | 2-1/16 | FTXR45E2 |
| T50 | FTXR50E   | 2-1/16 | FTXR50E2 |

Set shown includes magnetic storage tray.

**210EFTXRY 10 pc Combination Drive TORX® Bit Tamper-Resistant Socket Set**

- Includes 1/4" drive (TR8–TR25) and 3/8" drive (TR27–TR50) (10 pc)



210EFTXRY



FTXR27E

**TORX®/Special Application, Chrome (3/8")**

| #     | Stock No.  | Description   | A       | B           |
|-------|------------|---|---------|-------------|
| T40   | FTXEL40E   | 3/8" Drive TORX® Plus® T40 Extra-Long Bit Socket Driver         | 7-1/2   | FTXEL40E2   |
| T45   | FTXEL45E   | 3/8" Drive TORX® Plus® T45 Extra-Long Bit Socket Driver         | 7-11/16 | FTXEL45E2   |
| 40IPR | FTXR40TPE  | 3/8" Drive TORX® Plus® 40IPR Tamper-Resistant Bit Socket Driver | 1-3/4   | FTXR40TPE2  |
| T30   | FTXEL30TPE | 3/8" Drive TORX® Plus® T30 Extra-Long Bit Socket Driver         | 5       | FTXEL30TPE2 |

|     | Stock No. | Description                                | A      | B        |
|-----|-----------|--|--------|----------|
| T47 | FTX47E    | 3/8" Drive T47 Standard Bit Socket Driver  | 2-1/16 | FTX47E2  |
| T47 | GFTX500E  | 3/8" Drive T47 GM®-Style Bit Socket Driver | 2-1/16 | FTX500E2 |

T47 is not a TORX® licensed product.



FTX47E2

GFTX500E

**FTXEL40E 3/8" Drive TORX® Plus® T40 Extra-Long Bit Socket Driver**

- Applications include service on intake manifold bolts on Ford® 5.0 L engines with fuel injection, model years 1985–1990

**FTX47E 3/8" Drive T47 Standard Bit Socket Driver**

- For use on GM® door strikers

**FTXEL45E 3/8" Drive TORX® Plus® T45 Extra-Long Bit Socket Driver**

- Quickly and easily access intake bolts on Cummins® N14 diesel engines without removing the air pump
- Can also be used on older Cummins® NH Big Cam 4 diesel engines
- 3/8" square drive
- Various applications on European vehicles

**FTXEL30TPE 3/8" Drive TORX® Plus® T30 Extra-Long Bit Socket Driver**

- For removing the engine harness from the firewall on 2007 and newer
- For Volvo® trucks with D16, MPT 8 and MPT 10 engines, Cummins® ISX fuel timing and metering actuators

**GFTX500E 3/8" Drive T47 GM®-Style Bit Socket Driver**

- For use on GM® door strikers and seat belt bolts
- For 12CT curved tooth file

**TORX Plus®/Chrome (3/8")**

| #    | Stock No. | A      | B         |
|------|-----------|--------|-----------|
| 27IP | FTX27TPE  | 1-3/4  | FTX27TPE2 |
| 30IP | FTX30TPE  | 1-3/4  | FTX30TPE2 |
| 40IP | FTX40TPE  | 1-3/4  | FTX40TPE2 |
| 45IP | FTX45TPE  | 2-1/8  | FTX45TPE2 |
| 50IP | FTX50TPE  | 2-1/8  | FTX50TPE2 |
| 55IP | FTX55TPE  | 2-5/16 | FTX55TPE2 |

Set shown includes magnetic storage tray.



211EFTXTPY

FTX27TPE

**211EFTXTPY 11 pc Combination Drive TORX® Plus® Bit Socket Driver Set**

- Includes 1/4" drive (8IP–25IP) and 3/8" drive (27IP–55IP) (11 pc)
- TORX® Plus® fasteners may be found in almost all vehicles from the 1999 model year to present
- Common applications include GM® transmission bell housing bolts, Ford® seat belt anchors and Ford® Taurus® and Sable® front spring shields
- Use of a standard TORX® driver on TORX® Plus® fasteners may result in a rounded-out fastener head or damaged driver



• Do not use chrome or industrial finish hand tools with impact drivers  
• Read safety precautions on pages W1 to W4

## METRIC HEX BIT SOCKETS



211EFAMY

Hex/Standard, mm,  
Chrome (3/8")

| mm  | Hexagon | Set Contains: |          |         |         |
|-----|---------|---------------|----------|---------|---------|
|     |         | A             | B        | Hexagon | Hexagon |
| 2   | FAM2E   | 47.8          | FAM2E2   |         |         |
| 2.5 | FAM2.5E | 47.8          | FAM2.5E2 |         |         |
| 3   | FAM3E   | 47.8          | FAM3E2   |         |         |
| 4   | FAM4E   | 17.2          | FAM4E2   | •       | •       |
| 5   | FAM5E   | 17.2          | FAM5E2   | •       | •       |
| 6   | FAM6E   | 17.2          | FAM6E2   | •       | •       |
| 7   | FAM7E   | 52.3          | FAM7E2   | •       | •       |
| 8   | FAM8E   | 52.6          | FAM8E2   | •       | •       |
| 9   | FAM9E   | 52.6          | FAM9E2   | •       | •       |
| 10  | FAM10E  | 52.6          | FAM10E2  | •       | •       |
| 11  | FAM11E  | 69.9          | FAM11E2  | •       |         |
| 12  | FAM12E  | 69.9          | FAM12E2  | •       |         |
| 13  | FAM13E  | 69.9          | FAM13E2  | •       |         |
| 14  | FAM14E  | 69.9          | FAM14E2  | •       |         |

Sets include magnetic storage tray.

### 210EFTAMY 10 pc Combination Drive Metric Standard Hex Bit Socket Set

- Includes (10) 1/4 and 3/8" drive Standard Hex Bit Sockets (2–10 mm)



FAMXS10E

208EFTAMXSY

Hex/Stubby, mm, Chrome (3/8")

| mm | Hexagon  | A    | B         |
|----|----------|------|-----------|
| 7  | FAMXS7E  | 34.8 | FAMXS7E2  |
| 8  | FAMXS8E  | 35.8 | FAMXS8E2  |
| 9  | FAMXS9E  | 36.8 | FAMXS9E2  |
| 10 | FAMXS10E | 37.8 | FAMXS10E2 |

Set includes magnetic storage tray.

### 208EFTAMXSY 8 pc Combination Drive Metric Hex Bit Stubby Socket Driver Set

- Includes (8) socket drivers—1/4" drive and 3/8" drive (3–10 mm)



206EFAML

Hex/Long, mm, Chrome (3/8")

| mm | Hexagon | Set Contains: |          |         |
|----|---------|---------------|----------|---------|
|    |         | A             | B        | Hexagon |
| 4  | FAML4E  | 17.2          | FAML4E2  | •       |
| 5  | FAML5E  | 17.2          | FAML5E2  | •       |
| 6  | FAML6E  | 17.2          | FAML6E2  | •       |
| 7  | FAML7E  | 17.2          | FAML7E2  | •       |
| 8  | FAML8E  | 17.2          | FAML8E2  | •       |
| 10 | FAML10E | 17.2          | FAML10E2 | •       |



FABM10E

208EFTABMY

Ball Hex/Standard, mm, Chrome (3/8")

| mm | Ball Hexagon | A    | B        |
|----|--------------|------|----------|
| 7  | FABM7E       | 52.5 | FABM7E2  |
| 8  | FABM8E       | 52.5 | FABM8E2  |
| 9  | FABM9E       | 52.5 | FABM9E2  |
| 10 | FABM10E      | 52.6 | FABM10E2 |

Set includes magnetic storage tray.

### 208EFTABMY 8 pc Combination Drive Metric Ball Hex Bit Socket Set

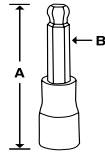
- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4" drive and 3/8" drive (3–10 mm)



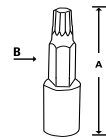
# METRIC HEX BIT SOCKETS



206EFABLM



FADM8E



## Double Hex/Standard, mm, Chrome (3/8")

- Double Hex Socket Drivers and Triple Square Socket Drivers cannot be interchanged between applications
- Triple square hex sockets have 90° corners and double hex bit sockets have 120° corners
- Using a Triple Square tool in a Double Hex application will strip the bolt head
- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles

| mm |         | A  | B        |
|----|---------|----|----------|
| 8  | FADM8E  | 18 | FADM8E2  |
| 8  | FADM8LE | 18 | FADM8LE2 |

## FADM8E 3/8" Drive Metric 8 mm Standard Double Hex Socket Driver

- Applications: Removal/installation of head bolts on Toyota® Tercel 1995 and later, and Paseo (1992–1997)

## FADM8LE 3/8" Drive Metric 8 mm Double Hex Long Bit Socket Driver

## Ball Hex/Long, mm, Chrome (3/8")

Set Contains:

| mm |          | A     | B         |   |
|----|----------|-------|-----------|---|
| 4  | FABLM4E  | 129.3 | FABLM4E2  | • |
| 5  | FABLM5E  | 128.5 | FABLM5E2  | • |
| 6  | FABLM6E  | 128.5 | FABLM6E2  | • |
| 7  | FABLM7E  | 128.5 | FABLM7E2  | • |
| 8  | FABLM8E  | 127.3 | FABLM8E2  | • |
| 10 | FABLM10E | 128.3 | FABLM10E2 | • |

Set shown includes storage tray.

206EFABLM

# HEX BIT SOCKETS



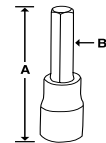
212EFTAY



208EGFAY



GFA10E



## Hex/Standard, inches (3/8")

Set Contains:

|      |        |         | A      | B        | Fits These Cap Screws | Fits These Set Screws |   |   |
|------|--------|---------|--------|----------|-----------------------|-----------------------|---|---|
| 1/8  | FA4E   | GFA4E   | 2-1/16 | TMA4E2   | —                     | 1/4"                  | • | • |
| 9/64 | FA4.5E | GFA4.5E | 2-1/16 | TMA4.5E2 | #8                    | —                     | • | • |
| 5/32 | FA5E   | GFA5E   | 2-1/16 | FA5E2    | #10                   | 5/16"                 | • | • |
| 3/16 | FA6E   | GFA6E   | 2-1/16 | FA6E2    | 1/4"                  | 3/8"                  | • | • |
| 7/32 | FA7E   | GFA7E   | 2-1/16 | FA7E2    | —                     | 7/16"                 | • | • |
| 1/4  | FA8E   | GFA8E   | 2-1/16 | FA8E2    | 5/16"                 | 1/2"                  | • | • |
| 5/16 | FA10E  | GFA10E  | 2-1/16 | FA10E2   | 3/8"                  | 5/8"                  | • | • |
| 3/8  | FA12E  | GFA12E  | 2-3/32 | SA12E2   | 7/16" and 1/2"        | 3/4"                  | • | • |

## 212EFTAY 12 pc Combination Drive SAE Standard Hex Driver Bit Socket Set

- Includes (12) 1/4 and 3/8" drive Standard Hex Bit Sockets (1/16–3/8")

Sets shown include storage tray.

## Hex/Stubby, Inches, Chrome (3/8")

|      |         | A       | B        |
|------|---------|---------|----------|
| 7/32 | FAXS7E  | 1-5/16  | FAXS7E2  |
| 1/4  | FAXS8E  | 1-11/32 | FAXS8E2  |
| 5/16 | FAXS10E | 1-13/32 | FAXS10E2 |
| 3/8  | FAXS12E | 1-15/32 | FAXS12E2 |

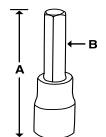
Set shown includes magnetic storage tray.



208EFTAXSY



FAXS10E



## 208EFTAXSY 8 pc Combination Drive SAE Hex Bit Stubby Socket Driver Set

- Includes (8) 1/4 and 3/8" drive Stubby Hex Bit Sockets (1/8–3/8")



**WARNING**



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## HEX BIT SOCKETS



Hex/Long, Inches,  
Chrome (3/8")

Set  
Contains:

|      |        | A      | Fits These<br>Cap Screws | Fits These<br>Set Screws | B       |   |
|------|--------|--------|--------------------------|--------------------------|---------|---|
| 5/32 | FA5LE  | 6-1/16 | #10                      | 5/16"                    | FA5LE2  | • |
| 3/16 | FA6LE  | 6-1/8  | 1/4"                     | 3/8"                     | FA6LE2  | • |
| 7/32 | FA7LE  | 6-1/8  | —                        | 7/16"                    | FA7LE2  | • |
| 1/4  | FA8LE  | 6-1/8  | 5/16"                    | 1/2"                     | FA8LE2  | • |
| 5/16 | FA10LE | 6-1/16 | 3/8"                     | 5/8"                     | FA10LE2 | • |
| 3/8  | FA12LE | 6-1/16 | 1/4"                     | 3/4"                     | FA12LE2 | • |

Set shown includes storage tray.



Ball Hex/Long, Inches,  
Chrome (3/8")

Set  
Contains:

|       |         | A      | B        |   |
|-------|---------|--------|----------|---|
| 5/32" | FABL5E  | 5-1/16 | FABL5E2  | • |
| 3/16" | FABL6E  | 5-1/16 | FABL6E2  | • |
| 7/32" | FABL7E  | 5-1/16 | FABL7E2  | • |
| 1/4"  | FABL8E  | 5-1/16 | FABL8E2  | • |
| 5/16" | FABL10E | 5-1/16 | FABL10E2 | • |
| 3/8"  | FABL12E | 5-1/16 | FABL12E2 | • |

Sets shown include storage tray.

Ball Hex/Standard, Inches, Chrome (3/8")

|       |        | A      | B       |
|-------|--------|--------|---------|
| 7/32" | FAB7E  | 2-3/32 | FAB7E2  |
| 1/4"  | FAB8E  | 2-3/32 | FAB8E2  |
| 5/16  | FAB10E | 2-3/32 | FAB10E2 |
| 3/8   | FAB12E | 2-3/32 | FAB12E2 |



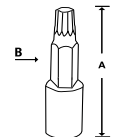
**208EFTABY 8 pc Combination Drive SAE Standard Ball Hex Bit Socket Set**

- Ball end of bit makes it easier to insert bit into fastener, especially in blind access applications
- Sockets are manufactured from special alloy steel that provides long life and great strength
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe socket clean
- Includes (8) bit socket drivers, 1/4" drive and 3/8" drive (1/8–3/8"), in a magnetic storage tray

## TRIPLE SQUARE BIT SOCKETS



FTSM8LE



Triple Square/Long, mm, Chrome (3/8")

- Double hex sockets and triple square sockets cannot be interchanged between applications
- Using a triple square tool in a double hex application will strip the bolt head
- In general, triple square tools are used on European vehicles and double hex tools are used on Asian vehicles

| Type            |    | Stock No. | A     | B         |
|-----------------|----|-----------|-------|-----------|
| Standard Length | 4  | FTSM4E    | 48.5  | FTSM4E2   |
|                 | 5  | FTSM5E    | 48.5  | FTSM5E2   |
|                 | 6  | FTSM6E    | 48.5  | FTSM6E2   |
|                 | 8  | FTSM8E    | 58    | FTSM8E2   |
|                 | 10 | FTSM10E   | 67.8  | FTSM10E2  |
| Long            | 8  | FTSM8LE   | 84.6  | FTSM8LE2  |
|                 | 10 | FTSM10LE  | 101.6 | FTSM10LE2 |

Set shown includes storage tray.

**TSS7KIT 7 pc Combination Drive Metric Standard Triple Square Socket Driver Set**

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability

**FTSM6E 3/8" Drive Metric 6 mm Standard Triple Square Bit Socket**

- Use to remove seat hold-down nuts on 1999 and later GM® full-size pickup trucks; also for use on VW® disc brake calipers

**FTSM8E 3/8" Drive Metric 8 mm Standard Triple Square Bit Socket**

- Remove and install head and accessory bolts on Mercedes-Benz® and axle shaft bolts on VW® and Audi® vehicles

**FTSM10E 3/8" Drive Metric 10 mm Standard Triple Square Bit Socket**

- Used for cylinder head bolts and drive shaft bolts on Mercedes-Benz® and remove and install axle shaft bolts on VW® and Audi® vehicles

## SPECIAL APPLICATION BIT SOCKETS

### Mortorq®/Standard, Industrial (3/8")

| #     | Stock No. | A     | B        |
|-------|-----------|-------|----------|
| MTS-0 | PFMTS0E   | 1-3/4 | PFMTS0E2 |
| MTS-1 | PFMTS1E   | 1-3/4 | PFMTS1E2 |
| MTS-2 | PFMTS2E   | 1-3/4 | PFMTS2E2 |
| MTS-3 | PFMTS3E   | 2-1/8 | PFMTS3E2 |
| MTS-4 | PFMTS4E   | 2-1/8 | PFMTS4E2 |

#### PFMTS4E 3/8" Drive Mortorq® MTS-4 Pinless Bit Socket Driver

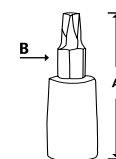
- Use to remove/install the bolts that secure the bell housing to the transmission on GM® 4L60 transmissions



PFMTS2E



PFMTS4E



#### PFMTS1E 3/8" Drive Mortorq® MTS-1 Pinless Bit Socket Driver

- Applications: For seat tracks on 2009 Mazda® 6
- Other seat applications: Cadillac® CTS®, Nissan® Maxima® and Altima®

### Ribe® Bit Sockets

| Size | Stock No. | A     | B | C     | D       |
|------|-----------|-------|---|-------|---------|
| R5   | F5RBE     | 0.679 | 1 | 2.072 | F5RBE2  |
| R6   | F6RBE     | 0.679 | 1 | 2.072 | F6RBE2  |
| R8   | F8RBE     | 0.679 | 1 | 2.072 | F8RBE2  |
| R10  | F10RBE    | 0.706 | 1 | 2.072 | F10RBE2 |



F10RBE

## FLAT TIP BIT SOCKETS

### — Flat Tip (3/8")

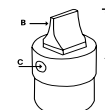
|                 | #   | Stock No. | Industrial Stock No. | A       | B      |
|-----------------|-----|-----------|----------------------|---------|--------|
| Standard Length | 3/8 | F23E      | —                    | 3       | F23E2A |
|                 | 3/8 | F25E      | GF25E                | 3       | F25E2A |
|                 | 3/8 | F31E      | GF31E                | 3-7/16  | F31E2A |
| Short           | 3/8 | F42E      | —                    | 1-13/16 | F42E2  |
|                 | 3/8 | F52E      | —                    | 1-13/16 | F52E2  |
|                 | 3/8 | F62E      | GF62E                | 1-27/32 | F62E2  |



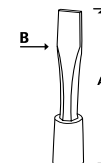
F23E



GF25E



F42E



## PHILLIPS® TIP BIT SOCKETS

### + PHILLIPS® (3/8")

|                 | #  | Stock No. | Industrial Stock No. | A       | B      |
|-----------------|----|-----------|----------------------|---------|--------|
| Standard Length | #2 | FP22E     | GFP22E               | 2-1/16  | FP22E2 |
|                 | #3 | FP32E     | —                    | 2-5/16  | FP32E2 |
|                 | #4 | FP41E     | —                    | 1-21/32 | FP41E2 |
| Short           | #3 | FPS32E    | —                    | 1-29/32 | SP32E2 |
| Long            | #2 | FP24E     | —                    | 4-1/32  | FP24E2 |
|                 | #3 | FP34E     | —                    | 4-1/32  | FP34E2 |
|                 | #4 | FP42E     | —                    | 2-9/16  | FP42E2 |



GFP22E



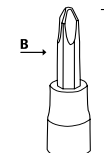
FP22E



FPS32E



FP34E



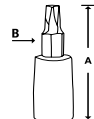
## POZIDRIV® AND CLUTCH BIT SOCKETS

### + Pozidriv®/Standard, Chrome (3/8")

| #  | Stock No. | A      | B       |
|----|-----------|--------|---------|
| #2 | FPD22E    | 2-1/16 | FPD22E2 |
| #3 | FPD32E    | 2      | FPD32E2 |



FPD32E



### Clutch/Standard, Chrome (3/8")

| #    | Stock No. | A     | B     |
|------|-----------|-------|-------|
| 3/8  | F29E      | 3/8   | 1-3/4 |
| 5/16 | F30E      | 19/64 | 1-3/4 |



F29E



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# IMPACT DRIVERS AND SETS



PIT2230E



234EPIT

## Impact Drivers (3/8")

| Stock No. | Description  | Set Contains: |         |
|-----------|--|---------------|---------|
|           |  | PIT2230E      | 234EPIT |
| PIT120    | 3/8" Drive Impact Driver   | •             | •       |
| F42E      | 3/8" Drive 1/4" Flat Tip Short Bit Socket Driver                   | •             |         |
| F52E      | 3/8" Drive 5/16" Flat Tip Short Bit Socket Driver                  | •             |         |
| F62E      | 3/8" Drive 3/8" Flat Tip Short Bit Socket Driver                   | •             |         |
| FA6E      | 3/8" Drive SAE 3/16" Standard Hex Bit Socket Driver                | •             |         |
| FA7E      | 3/8" Drive SAE 7/32" Standard Hex Bit Socket Driver                | •             |         |
| FA8E      | 3/8" Drive SAE 1/4" Standard Hex Bit Socket Driver                 | •             | •       |
| FA10E     | 3/8" Drive SAE 5/16" Standard Hex Bit Socket Driver                | •             | •       |
| FA12E     | 3/8" Drive SAE 3/8" Standard Hex Bit Socket Driver                 | •             | •       |
| FA12E2    | 3/8" Standard Hex Driver Bit                                       |               | •       |
| FAM7E     | 3/8" Drive Metric 7 mm Standard Hex Bit Socket Driver              |               | •       |
| FAM8E     | 3/8" Drive Metric 8 mm Standard Hex Bit Socket Driver              |               | •       |
| FAM9E     | 3/8" Drive Metric 9 mm Standard Hex Bit Socket Driver              |               | •       |
| FTXB30E   | 3/8" Drive TORX® T30 Heavy-Duty Removal Bit Socket Driver          |               | •       |
| FTXB40E   | 3/8" Drive TORX® T40 Heavy-Duty Removal Bit Socket Driver          |               | •       |
| FTXB45E   | 3/8" Drive TORX® T45 Heavy-Duty Removal Bit Socket Driver          |               | •       |
| FTXB50E   | 3/8" Drive TORX® T50 Heavy-Duty Removal Bit Socket Driver          |               | •       |
| FTXB55E   | 3/8" Drive TORX® T55 Heavy-Duty Removal Bit Socket Driver          |               | •       |
| FTXB30E2  | T30 TORX® Heavy-Duty Removal Driver Bit                            |               | •       |
| FTXB40E2  | T40 TORX® Heavy-Duty Removal Driver Bit                            |               | •       |
| FTXB50E2  | T50 TORX® Heavy-Duty Removal Driver Bit                            |               | •       |
| FP22E     | 3/8" Drive #2 PHILLIPS® Standard Bit Socket Driver                 | •             | •       |
| FP32E     | 3/8" Drive #3 PHILLIPS® Standard Bit Socket Driver                 | •             | •       |
| FP41E     | 3/8" Drive #4 PHILLIPS® Standard Bit Socket Driver                 | •             |         |
| F42E      | 3/8" Drive #4 PHILLIPS® Long Socket Driver                         |               |         |
| F29E      | 3/8" Drive SAE 3/8" Clutch Bit Socket Driver                       | •             |         |
| F30E      | 3/8" Drive SAE 5/16" Clutch Socket Driver                          | •             |         |
| FPD22E    | 3/8" Drive #2 Pozidriv® Tip Bit Socket Driver                      | •             |         |
| FPS32E    | 3/8" Drive #3 PHILLIPS® Short Socket Driver                        |               |         |
| IMF120A   | 3/8" Drive 6-Point SAE 3/8" Flank Drive® Shallow Impact Socket     | •             |         |
| IMF140A   | 3/8" Drive 6-Point SAE 7/16" Flank Drive® Shallow Impact Socket    | •             |         |
| IMF160    | 3/8" Drive 6-Point SAE 1/2" Flank Drive® Shallow Impact Socket     | •             |         |
| IMF180    | 3/8" Drive 6-Point SAE 9/16" Flank Drive® Shallow Impact Socket    | •             |         |
| IMF200    | 3/8" Drive 6-Point SAE 5/8" Flank Drive® Shallow Impact Socket     | •             |         |
| IMF220    | 3/8" Drive 6-Point SAE 11/16" Flank Drive® Shallow Impact Socket   | •             |         |
| IMF240    | 3/8" Drive 6-Point SAE 3/4" Flank Drive® Shallow Impact Socket     | •             |         |
| IMFA16    | 3/8" Drive SAE 1/2" Impact Rated Hex Driver                        |               |         |
| IMFA18    | 3/8" Drive SAE 9/16" Impact Rated Hex Driver                       |               |         |
| IMFAM12   | 3/8" Drive Metric 12 mm Impact Rated Hex Driver                    |               |         |
| IMFAM14   | 3/8" Drive Metric 14 mm Impact Rated Hex Driver                    |               |         |
| IMFM12    | 3/8" Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket |               | •       |
| IMFM13    | 3/8" Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket |               | •       |
| IMFM14    | 3/8" Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket |               | •       |
| IMFM15    | 3/8" Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket |               | •       |
| IMFM17    | 3/8" Drive 6-Point Metric 17 mm Flank Drive® Shallow Impact Socket |               | •       |
| IMFM18    | 3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Impact Socket |               | •       |
| IMFM10A   | 3/8" Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket |               | •       |
| GF22      | 3/8" Drive 11/16" Blade Width Drag Link Socket                     | •             |         |
| KRA142B   | Metal Storage Case   | •             |         |
| PAKPB070  | Plastic Storage Box for 234EPIT                                    |               | •       |
| FAM10E2   | 10 mm Standard Hex Driver Bit                                      |               | •       |
| SAM10E2   | 10 mm Standard Hex Driver Bit                                      |               | •       |
| SP32E2    | #3 PHILLIPS® Short Driver Bit                                      |               | •       |

Sets include storage case.

### PIT2230E 36 pc 3/8" Drive Impact Driver Set

- Includes PIT120 Impact Driver plus all sockets, screwdrivers and replacement bits (36 pc) conveniently displayed in a storage tray that fits in the KRA142 metal box

### 234EPIT 34 pc 3/8" Drive Impact Driver Set

- Includes PIT120 impact driver plus all sockets, screwdrivers and replacement bits (34 pc) in a storage case

# IMPACT DRIVERS AND SETS

3/8" DRIVE TOOLS

## Impact Drivers (3/8")

| Stock No. | Description  | Set Contains: |
|-----------|--|---------------|
| PIT120    | 3/8" Drive Impact Driver                           | •             |
| F42E      | 3/8" Drive 1/4" Flat Tip Short Bit Socket Driver   | •             |
| F52E      | 3/8" Drive 5/16" Flat Tip Short Bit Socket Driver  | •             |
| F62E      | 3/8" Drive 3/8" Flat Tip Short Bit Socket Driver   | •             |
| FP22E     | 3/8" Drive #2 PHILLIPS® Standard Bit Socket Driver | •             |
| FP32E     | 3/8" Drive #3 PHILLIPS® Standard Bit Socket Driver | •             |
| FP42E     | 3/8" Drive #4 PHILLIPS® Long Socket Driver         | •             |
| FPD22E    | 3/8" Drive #2 Pozidriv® Tip Bit Socket Driver      | •             |

Set Contains: 208EPIT



### PIT120 3/8" Drive Impact Driver

- Delivers cam action impact when struck with a hammer for loosening or tightening fasteners
- Industrial finish

Set includes PB108A Storage Case.

## IMPACT ACCESSORIES



204IMXA

### Extensions/Impact

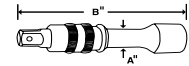
| Stock No. | A   | B     | Set Contains: |
|-----------|-----|-------|---------------|
| IMX11     | 1/2 | 1-3/4 | •             |
| IMX31     | 1/2 | 3     | •             |
| IMX61     | 1/2 | 6     | •             |
| IMX111    | 1/2 | 11    | •             |

Set Contains: 204IMXA

Set includes storage tray.



IMXL61



### Locking Extensions

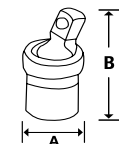
- Quick-release locking sleeve provides a secure connection plus easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands

| Stock No. | A   | B  |
|-----------|-----|----|
| IMXL31    | 1/2 | 3  |
| IMXL61    | 1/2 | 6  |
| IMXL111   | 1/2 | 11 |



IPF800B

IPF80B



### Universal Joints (Impact)

| Stock No. | Socket Attachment | A | B     |
|-----------|-------------------|---|-------|
| IPF80B    | Pin Type          | 1 | 2-1/8 |
| IPF800B   | Ball Type         | 1 | 2-1/8 |



202IPFX

### Swivel Extensions

- Laser-welded pivot pin allows smooth, full 30° swivel action for efficient power transfer
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Provides versatility for the technician to use any size shallow, semi-deep, deep, 6-point, 12-point, metric or SAE impact socket

Set Contains: 202IPFX

| Stock No. | Shank Dia., inches | Length, inches | Set Contains: |
|-----------|--------------------|----------------|---------------|
| IPFX6     | 9/16               | 6              | •             |
| IPFX9     | 9/16               | 9              | •             |

Sets shown include magnetic storage tray.



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

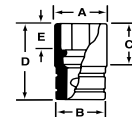
# FLANK DRIVE® IMPACT SOCKETS



IMDFM14



214IMFMYA



## Shallow, mm

| mm | Set Contains: |          | A    | B    | C    | D    | E    | Set Contains: |    |
|----|---------------|----------|------|------|------|------|------|---------------|----|
|    | 6             | 12       |      |      |      |      |      | 6             | 12 |
| 6  | IMFM6         | IMDFM6   | 10.3 | 17.5 | 10.3 | 22.2 | 5.6  |               |    |
| 7  | IMFM7         | IMDFM7   | 11.9 | 17.5 | 10.3 | 22.2 | 5.6  |               |    |
| 8  | IMFM8A        | IMDFM8A  | 12.8 | 17.2 | 11.1 | 23.0 | 6.4  | •             |    |
| 9  | IMFM9A        | IMDFM9   | 14.0 | 17.2 | 11.0 | 23.0 | 7.1  | •             |    |
| 10 | IMFM10A       | IMDFM10A | 15.1 | 17.2 | 11.0 | 23.0 | 7.1  | •             | •  |
| 11 | IMFM11A       | IMDFM11A | 16.7 | 18.8 | 11.6 | 23.8 | 7.1  | •             |    |
| 12 | IMFM12        | IMDFM12  | 18.8 | 18.0 | 11.6 | 23.8 | 7.1  | •             | •  |
| 13 | IMFM13        | IMDFM13  | 18.8 | 18.8 | 12.4 | 24.6 | 7.4  | •             | •  |
| 14 | IMFM14        | IMDFM14  | 20.4 | 20.4 | 13.5 | 27.0 | 9.1  | •             | •  |
| 15 | IMFM15        | IMDFM15  | 21.2 | 21.2 | 13.5 | 27.0 | 9.1  | •             | •  |
| 16 | IMFM16        | IMDFM16  | 22.7 | 22.7 | 14.1 | 27.8 | 10.4 | •             | •  |
| 17 | IMFM17        | IMDFM17  | 24.3 | 24.3 | 14.4 | 28.2 | 10.2 | •             | •  |
| 18 | IMFM18        | IMDFM18  | 25.1 | 25.1 | 14.3 | 29.0 | 10.9 | •             | •  |
| 19 | IMFM19        | IMDFM19  | 26.7 | 26.7 | 15.6 | 30.6 | 11.7 | •             |    |
| 20 | IMFM20        | IMDFM20  | 28.3 | 28.3 | 16.5 | 30.9 | 12.2 | •             |    |
| 21 | IMFM21        | IMDFM21  | 28.8 | 28.8 | 17.5 | 29.5 | 12.2 | •             |    |
| 22 | IMFM22        | IMDFM22  | 29.9 | 29.9 | 18.3 | 32.9 | 13.0 |               |    |
| 23 | IMFM23        | —        | 31.5 | 31.5 | 19.3 | 31.5 | 13.2 |               |    |
| 24 | IMFM24        | —        | 32.6 | 32.6 | 21.1 | 33.0 | 14.5 | •             |    |

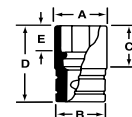
Sets shown include magnetic storage tray.



IMF120A



212IMFYA



## Shallow, inches

| In    | Set Contains: |          | A       | B      | C     | D      | E     | Set Contains: |    |
|-------|---------------|----------|---------|--------|-------|--------|-------|---------------|----|
|       | 6             | 12       |         |        |       |        |       | 6             | 12 |
| 1/4   | IMF080        | —        | 7/16    | 11/16  | 7/16  | 7/8    | 7/32  |               |    |
| 5/16  | IMF100A       | —        | 1/2     | 11/16  | 3/8   | 7/8    | 1/4   | •             |    |
| 3/8   | IMF120A       | IMDF120A | 9/16    | 11/16  | 7/16  | 7/8    | 3/16  | •             | •  |
| 7/16  | IMF140A       | IMDF140A | 21/32   | 3/4    | 7/16  | 15/16  | 9/32  | •             | •  |
| 1/2   | IMF160        | IMDF160  | 3/4     | 3/4    | 7/16  | 15/16  | 9/32  | •             | •  |
| 9/16  | IMF180        | IMDF180  | 13/16   | 13/16  | 7/16  | 15/16  | 9/32  | •             | •  |
| 5/8   | IMF200        | IMDF200  | 29/32   | 29/32  | 7/16  | 15/16  | 9/32  | •             | •  |
| 11/16 | IMF220        | IMDF220  | 31/32   | 31/32  | 9/16  | 1-1/32 | 3/8   | •             | •  |
| 3/4   | IMF240        | IMDF240  | 1-1/16  | 1-1/16 | 9/16  | 1-3/32 | 13/32 | •             | •  |
| 13/16 | IMF260        | —        | 1-1/8   | 1-1/8  | 11/16 | 1-3/16 | 1/2   | •             |    |
| 7/8   | IMF280        | —        | 1-3/16  | 1-3/16 | 3/4   | 1-9/32 | 1/2   | •             |    |
| 15/16 | IMF300        | —        | 1-9/32  | 1-9/32 | 13/16 | 1-5/16 | 17/32 | •             |    |
| 1     | IMF320        | —        | 1-11/32 | 1-9/32 | 13/16 | 1-5/16 | 9/16  | •             |    |

Sets shown include magnetic storage tray.

# FLANK DRIVE® IMPACT SOCKETS

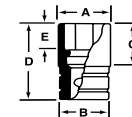
3/8" DRIVE TOOLS



IMFMS12



212IMFMSYA



## Semi-Deep, mm

Set Contains:

| mm | 6        | A    | B    | C    | D    | E    | 6 | 6 |
|----|----------|------|------|------|------|------|---|---|
| 6  | IMFMS6   | 10.3 | 17.5 | 28.6 | 41.3 | 5.6  |   |   |
| 7  | IMFMS7   | 11.9 | 17.5 | 28.6 | 41.3 | 6.4  |   |   |
| 8  | IMFMS8A  | 12.8 | 17.2 | 29.3 | 41.3 | 6.4  |   | • |
| 9  | IMFMS9A  | 14.0 | 17.2 | 29.3 | 41.3 | 7.1  |   | • |
| 10 | IMFMS10A | 15.1 | 17.2 | 29.3 | 41.3 | 9.7  | • | • |
| 11 | IMFMS11A | 17.2 | 17.2 | 29.3 | 41.3 | 9.7  |   | • |
| 12 | IMFMS12  | 18.0 | 18.0 | 29.3 | 41.3 | 9.7  | • | • |
| 13 | IMFMS13  | 19.6 | 19.6 | 29.3 | 41.3 | 10.4 | • | • |
| 14 | IMFMS14  | 20.4 | 20.4 | 29.3 | 41.3 | 10.4 | • | • |
| 15 | IMFMS15  | 21.2 | 21.2 | 29.3 | 41.3 | 10.4 | • | • |
| 16 | IMFMS16  | 22.7 | 22.7 | 29.3 | 41.3 | 10.4 |   | • |
| 17 | IMFMS17  | 24.3 | 24.3 | 29.3 | 41.3 | 11.2 | • | • |
| 18 | IMFMS18  | 25.1 | 25.1 | 29.3 | 41.3 | 11.2 | • | • |
| 19 | IMFMS19  | 26.7 | 26.7 | 29.3 | 41.3 | 11.7 |   | • |
| 20 | IMFMS20  | 28.6 | 28.6 | 22.2 | 41.3 | 11.9 |   |   |
| 21 | IMFMS21  | 29.2 | 25.1 | 29.3 | 65.7 | 12.4 |   |   |

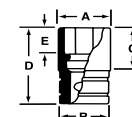
Sets shown include magnetic storage tray.



IMFMS16



210IMFMSYA



## Semi-Deep, inches

Set Contains:

| in    | 6       | A      | B      | C      | D     | E     | 6 | 6 |
|-------|---------|--------|--------|--------|-------|-------|---|---|
| 1/4   | IMFS8   | 13/32  | 11/16  | 1-1/4  | 1-5/8 | 7/32  |   |   |
| 5/16  | IMFS10A | 1/2    | 11/16  | 1-5/32 | 1-5/8 | 1/4   |   | • |
| 3/8   | IMFS12A | 9/16   | 11/16  | 1-5/32 | 1-5/8 | 9/32  | • | • |
| 7/16  | IMFS14A | 21/32  | 3/4    | 1-5/32 | 1-5/8 | 11/32 | • | • |
| 1/2   | IMFS16  | 3/4    | 3/4    | 1-5/32 | 1-5/8 | 13/32 | • | • |
| 9/16  | IMFS18  | 13/16  | 13/16  | 1-5/32 | 1-5/8 | 13/32 | • | • |
| 5/8   | IMFS20  | 29/32  | 29/32  | 1-5/32 | 1-5/8 | 13/32 | • | • |
| 11/16 | IMFS22  | 31/32  | 31/32  | 1-5/32 | 1-5/8 | 7/16  | • | • |
| 3/4   | IMFS24  | 1-1/16 | 1-1/16 | 1-5/32 | 1-5/8 | 15/32 | • | • |
| 13/16 | IMFS26  | 1-1/8  | 1-1/8  | 1-5/32 | 1-5/8 | 1/2   |   | • |
| 7/8   | IMFS28  | 1-3/16 | 1-3/16 | 1-5/32 | 1-5/8 | 17/32 |   | • |
| 15/16 | IMFS30  | 1-9/32 | 1-9/32 | 1      | 1-3/4 | 9/16  |   |   |
| 1     | IMFS32  | 1-5/16 | 1-5/16 | 1      | 1-3/4 | 5/8   |   |   |

Sets shown include magnetic storage tray.



• Read safety precautions on pages W1 to W4

# FLANK DRIVE® IMPACT SOCKETS



SIMDFM14



214SIMDFMYA

Deep, mm

Set Contains:

| mm | 6        | 12        | A    | B    | C    | D    | E    | 6 | 12 |
|----|----------|-----------|------|------|------|------|------|---|----|
| 6  | SIMFM6   | SIMDFM6   | 10.3 | 17.5 | 44.9 | 54.0 | 5.6  |   |    |
| 7  | SIMFM7   | SIMDFM7   | 11.9 | 17.5 | 44.9 | 54.0 | 6.4  |   |    |
| 8  | SIMFM8A  | SIMDFM8A  | 12.8 | 17.2 | 38.1 | 54.0 | 6.4  | • | •  |
| 9  | SIMFM9A  | SIMDFM9A  | 14.0 | 17.2 | 38.1 | 54.0 | 7.1  | • | •  |
| 10 | SIMFM10A | SIMDFM10A | 15.1 | 17.2 | 38.1 | 54.0 | 9.7  | • | •  |
| 11 | SIMFM11A | SIMDFM11A | 17.2 | 17.2 | 38.1 | 54.0 | 9.7  | • | •  |
| 12 | SIMFM12  | SIMDFM12  | 18.0 | 18.0 | 38.1 | 54.0 | 9.7  | • | •  |
| 13 | SIMFM13  | SIMDFM13  | 19.6 | 19.6 | 38.1 | 54.0 | 10.4 | • | •  |
| 14 | SIMFM14  | SIMDFM14  | 20.4 | 20.4 | 42.7 | 60.3 | 10.4 | • | •  |
| 15 | SIMFM15  | SIMDFM15  | 21.2 | 21.2 | 42.7 | 60.3 | 10.4 | • | •  |
| 16 | SIMFM16  | SIMDFM16  | 22.7 | 22.7 | 42.7 | 60.3 | 10.4 | • | •  |
| 17 | SIMFM17  | SIMDFM17  | 24.3 | 24.3 | 47.0 | 66.7 | 11.2 | • | •  |
| 18 | SIMFM18  | SIMDFM18  | 25.1 | 25.1 | 47.0 | 66.7 | 11.2 | • | •  |
| 19 | SIMFM19  | SIMDFM19  | 26.7 | 26.7 | 47.0 | 66.7 | 14.2 | • | •  |
| 20 | SIMFM20  | SIMDFM20  | 28.3 | 28.3 | 47.0 | 66.7 | 12.2 |   |    |
| 21 | SIMFM21  | SIMDFM21  | 28.9 | 28.9 | 47.0 | 66.7 | 12.4 | • | •  |
| 22 | SIMFM22  | —         | 29.9 | 29.9 | 51.6 | 73.0 | 13.0 |   |    |
| 23 | SIMFM23  | —         | 31.5 | 31.5 | 51.6 | 73.0 | 13.0 |   |    |
| 24 | SIMFM24  | SIMDFM24  | 33.0 | 33.0 | 58.2 | 73.0 | 14.7 | • | •  |

Sets shown include magnetic storage tray.



SIMF260



207SIMDFYA



212SIMFYA

Deep, inches

Set Contains:

| II    | 6        | 12        | A       | B       | C       | D     | E    | 6 | 12 | 6 |
|-------|----------|-----------|---------|---------|---------|-------|------|---|----|---|
| 1/4   | SIMF080  | —         | 7/16    | 11/16   | 1-13/16 | 2-1/8 | 7/32 |   |    |   |
| 5/16  | SIMF100A | —         | 1/2     | 11/16   | 1-1/2   | 2-1/8 | 3/16 |   |    | • |
| 3/8   | SIMF120A | SIMDF120A | 9/16    | 11/16   | 1-1/2   | 2-1/8 | 9/32 | • | •  | • |
| 7/16  | SIMF140A | SIMDF140A | 21/32   | 3/4     | 1-1/2   | 2-1/8 | 5/16 | • | •  | • |
| 1/2   | SIMF160  | SIMDF160  | 3/4     | 3/4     | 1-1/2   | 2-1/8 | 3/8  | • | •  | • |
| 9/16  | SIMF180  | SIMDF180  | 13/16   | 13/16   | 1-1/2   | 2-1/8 | 7/16 | • | •  | • |
| 5/8   | SIMF200  | SIMDF200  | 29/32   | 29/32   | 1-1/2   | 2-3/8 | 7/16 | • | •  | • |
| 11/16 | SIMF220  | SIMDF220  | 31/32   | 31/32   | 1-1/2   | 2-5/8 | 1/2  | • | •  | • |
| 3/4   | SIMF240  | SIMDF240  | 1-1/16  | 1-1/16  | 1-1/2   | 2-5/8 | 9/16 | • | •  | • |
| 13/16 | SIMF260  | —         | 1-1/8   | 1-1/8   | 2-1/16  | 2-3/4 | 9/16 |   |    | • |
| 7/8   | SIMF280  | —         | 1-3/16  | 1-3/16  | 2-1/16  | 2-3/4 | 9/16 |   |    | • |
| 15/16 | SIMF300  | —         | 1-9/32  | 1-9/32  | 2-1/32  | 2-3/4 | 9/16 |   |    | • |
| 1     | SIMF320  | —         | 1-11/32 | 1-11/32 | 2-3/16  | 2-3/4 | 5/8  |   |    | • |

Sets shown include magnetic storage tray.

• Read safety precautions on pages W1 to W4



# FLANK DRIVE® IMPACT SWIVEL SOCKETS

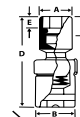
3/8" DRIVE TOOLS



IPDFM12A



207IPDFM



## Shallow, mm

| mm | Set Contains: |          |      |      |      |      |      | 212IPFM |   |    | 207IPFM |   |    |
|----|---------------|----------|------|------|------|------|------|---------|---|----|---------|---|----|
|    | 6             | 12       | A    | B    | C    | D    | E    | 6       | 6 | 12 | 6       | 6 | 12 |
| 8  | IPFM8C        | —        | 12.8 | 26.0 | 10.4 | 51.6 | 6.4  | •       |   |    |         |   |    |
| 9  | IPFM9C        | —        | 14.1 | 26.0 | 10.9 | 52.6 | 6.4  |         |   |    |         |   |    |
| 10 | IPFM10C       | IPDFM10A | 15.5 | 26.0 | 11.4 | 53.6 | 7.1  | •       | • | •  |         |   |    |
| 11 | IPFM11C       | —        | 16.6 | 26.0 | 11.9 | 54.9 | 7.1  | •       |   |    |         |   |    |
| 12 | IPFM12C       | IPDFM12A | 17.1 | 26.0 | 12.5 | 55.9 | 7.1  | •       | • | •  |         |   |    |
| 13 | IPFM13C       | IPDFM13A | 19.7 | 26.0 | 12.5 | 56.9 | 7.9  | •       | • | •  |         |   |    |
| 14 | IPFM14C       | IPDFM14A | 20.5 | 26.0 | 13.0 | 58.2 | 7.9  | •       | • | •  |         |   |    |
| 15 | IPFM15C       | IPDFM15A | 21.3 | 26.0 | 13.5 | 59.2 | 7.9  | •       | • | •  |         |   |    |
| 16 | IPFM16C       | IPDFM16A | 23.0 | 26.0 | 14.2 | 60.2 | 8.6  | •       | • | •  |         |   |    |
| 17 | IPFM17C       | —        | 24.4 | 26.0 | 16.8 | 62.3 | 8.6  | •       | • | •  |         |   |    |
| 17 | —             | IPDFM17A | 24.4 | 26.0 | 17.8 | 62.3 | 8.6  |         |   |    |         |   |    |
| 18 | IPFM18C       | —        | 25.3 | 26.0 | 16.5 | 62.3 | 9.7  | •       | • | •  |         |   |    |
| 18 | —             | IPDFM18A | 25.3 | 26.0 | 18.5 | 62.3 | 9.7  |         |   |    |         |   | •  |
| 19 | IPFM19C       | —        | 26.5 | 26.0 | 19.1 | 64.3 | 10.4 | •       |   |    |         |   |    |
| 21 | IPFM21C       | —        | 29.2 | 26.0 | 19.6 | 66.0 | 12.4 | •       |   |    |         |   |    |
| 22 | IPFM22C       | —        | 30.0 | 26.0 | 21.6 | 67.9 | 13.0 |         |   |    |         |   |    |

Sets shown include storage tray.

## Shallow, inches

| mm    | Set Contains: |         |        |        |       |         |       |   |
|-------|---------------|---------|--------|--------|-------|---------|-------|---|
|       | 6             | 12      | A      | B      | C     | D       | E     | 6 |
| 3/8   | IPF12C        | IPDF12A | 9/16   | 1-1/32 | 13/32 | 2-3/32  | 1/4   |   |
| 7/16  | IPF14C        | IPDF14  | 21/32  | 1-1/32 | 15/32 | 2-5/32  | 1/4   | • |
| 1/2   | IPF16C        | IPDF16  | 3/4    | 1-1/32 | 1/2   | 2-1/4   | 9/32  | • |
| 9/16  | IPF18C        | IPDF18  | 13/16  | 1-1/32 | 1/2   | 2-9/32  | 9/32  | • |
| 5/8   | IPF20C        | —       | 29/32  | 1-1/32 | 5/8   | 2-3/8   | 5/16  | • |
| 5/8   | —             | IPDF20  | 29/32  | 1-1/32 | 17/32 | 2-3/8   | 5/16  |   |
| 11/16 | IPF22C        | —       | 31/32  | 1-1/32 | 11/16 | 2-15/32 | 13/32 |   |
| 11/16 | —             | IPDF22  | 1      | 1-1/32 | 19/32 | 2-7/16  | 3/8   |   |
| 3/4   | IPF24C        | —       | 1-1/16 | 1-1/32 | 23/32 | 2-17/32 | 7/16  | • |
| 3/4   | —             | IPDF24  | 1-1/16 | 1-1/32 | 11/16 | 2-17/32 | 7/16  |   |

Set includes storage tray.

## Semi-Deep, mm

| mm | Set Contains: |      |      |      |      |      |   |
|----|---------------|------|------|------|------|------|---|
|    | 6             | A    | B    | C    | D    | E    | 6 |
| 8  | IPSFM8A       | 17.1 | 26.0 | 20.8 | 65.3 | 6.4  |   |
| 9  | IPSFM9A       | 17.1 | 26.0 | 21.3 | 65.8 | 7.1  |   |
| 10 | IPSFM10A      | 17.1 | 26.0 | 22.4 | 66.8 | 9.7  | • |
| 11 | IPSFM11A      | 16.6 | 26.0 | 25.9 | 68.3 | 9.7  |   |
| 12 | IPSFM12A      | 17.1 | 26.0 | 26.2 | 69.8 | 9.7  | • |
| 13 | IPSFM13A      | 19.7 | 26.0 | 26.4 | 70.9 | 10.4 | • |
| 14 | IPSFM14A      | 20.5 | 26.0 | 27.4 | 71.9 | 10.4 | • |
| 15 | IPSFM15A      | 21.3 | 26.0 | 30.0 | 73.4 | 10.4 | • |
| 16 | IPSFM16A      | 23.0 | 26.0 | 29.0 | 73.4 | 10.4 |   |
| 17 | IPSFM17A      | 24.4 | 26.0 | 30.0 | 74.9 | 11.2 | • |
| 18 | IPSFM18A      | 25.3 | 26.0 | 30.0 | 76.5 | 11.2 | • |
| 19 | IPSFM19A      | 26.5 | 26.0 | 31.8 | 78.0 | 14.2 |   |
| 21 | IPSFM21A      | 29.2 | 26.0 | 31.8 | 78.0 | 12.4 |   |

Set includes magnetic tray.

## Low-Profile, mm

| mm | Stock No. | Set Contains: |      |     |      |     |   |
|----|-----------|---------------|------|-----|------|-----|---|
|    |           | A             | B    | C   | D    | E   |   |
| 8  | RIPFM8C   | 12.8          | 25.9 | 4.7 | 43.6 | 3.7 |   |
| 10 | RIPFM10C  | 15.5          | 25.9 | 5.2 | 47.4 | 4.4 | • |
| 11 | RIPFM11C  | 16.6          | 25.9 | 6.0 | 45.8 | 5.0 |   |
| 12 | RIPFM12C  | 17.1          | 25.9 | 6.1 | 48.9 | 5.3 | • |
| 13 | RIPFM13C  | 19.7          | 25.9 | 6.6 | 50.1 | 5.8 | • |
| 14 | RIPFM14C  | 20.5          | 25.9 | 7.0 | 50.8 | 6.2 | • |
| 15 | RIPFM15C  | 21.3          | 26.8 | 7.5 | 52.4 | 6.7 | • |
| 16 | RIPFM16C  | 23            | 26.8 | 8.1 | 50.5 | 7.1 |   |
| 17 | RIPFM17C  | 24.4          | 26.8 | 8.6 | 51.3 | 7.6 | • |
| 18 | RIPFM18C  | 25.3          | 26.8 | 9   | 51.9 | 8   | • |
| 19 | RIPFM19C  | 26.5          | 26.8 | 9.5 | 52.7 | 8.5 |   |
| 21 | RIPFM21C  | 29.2          | 26.8 | 9.0 | 52.7 | 8.0 |   |

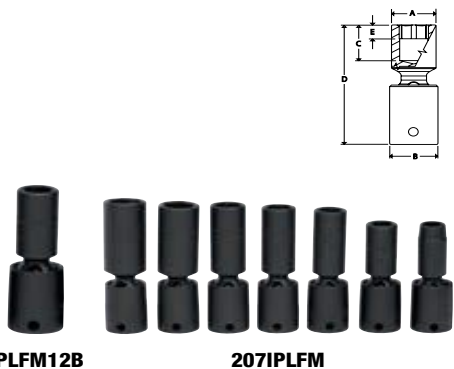
## Low-Profile, inches

| mm    | Stock No. | Set Contains: |        |      |         |      |   |
|-------|-----------|---------------|--------|------|---------|------|---|
|       |           | A             | B      | C    | D       | E    |   |
| 3/8   | RIPF12C   | 9/16          | 1-1/32 | 7/32 | 1-25/32 | 3/16 |   |
| 7/16  | RIPF14C   | 21/32         | 1-1/32 | 3/16 | 1-7/8   | 5/32 | • |
| 1/2   | RIPF16C   | 3/4           | 1-1/32 | 1/4  | 1-31/32 | 3/16 | • |
| 9/16  | RIPF18C   | 13/16         | 1-1/32 | 9/32 | 2-1/32  | 1/4  | • |
| 5/8   | RIPF20C   | 29/32         | 1-1/16 | 5/16 | 2-1/16  | 9/32 | • |
| 11/16 | RIPF22C   | 31/32         | 1-1/16 | 3/8  | 2-1/16  | 5/16 |   |
| 3/4   | RIPF24C   | 1 1/16        | 1-1/16 | 3/8  | 2-3/16  | 5/16 | • |



• Read safety precautions on pages W1 to W4

# FLANK DRIVE® IMPACT SWIVEL SOCKETS



Deep, mm

| mm | 6        | A    | B    | C    | D    | E    | 6 |
|----|----------|------|------|------|------|------|---|
| 8  | IPLFM8B  | 17.1 | 26.0 | 30.5 | 73.4 | 9.1  |   |
| 10 | IPLFM10B | 17.1 | 26.0 | 30.5 | 73.4 | 9.1  | • |
| 11 | IPLFM11B | 16.6 | 26.0 | 30.7 | 73.7 | 9.7  |   |
| 12 | IPLFM12B | 17.1 | 26.0 | 30.7 | 73.7 | 9.7  | • |
| 13 | IPLFM13A | 19.7 | 26.0 | 38.4 | 82.8 | 10.4 | • |
| 14 | IPLFM14A | 20.5 | 26.0 | 40.4 | 84.3 | 10.4 | • |
| 15 | IPLFM15A | 21.3 | 26.0 | 41.2 | 85.8 | 10.4 | • |
| 16 | IPLFM16A | 23.0 | 26.0 | 40.6 | 86.1 | 10.4 |   |
| 17 | IPLFM17A | 24.4 | 26.0 | 40.9 | 86.9 | 10.2 | • |
| 18 | IPLFM18A | 25.3 | 26.0 | 42.2 | 88.6 | 10.7 | • |
| 19 | IPLFM19A | 26.5 | 26.0 | 43.7 | 90.2 | 14.2 |   |
| 21 | IPLFM21A | 29.2 | 26.0 | 45.2 | 92.2 | 12.4 |   |

Set Contains:

207IPLFM

Set includes magnetic tray.



Deep, inches

| #    | 6       | A     | B      | C       | D       | E    | 6 |
|------|---------|-------|--------|---------|---------|------|---|
| 3/8  | IPLF12B | 21/32 | 1-1/32 | 1-3/16  | 2-29/32 | 1/4  | • |
| 7/16 | IPLF14B | 21/32 | 1-1/32 | 1-7/32  | 2-29/32 | 1/4  | • |
| 1/2  | IPLF16B | 3/4   | 1-1/32 | 1-5/32  | 2-29/32 | 9/32 | • |
| 9/16 | IPLF18B | 13/16 | 1-1/32 | 1-17/32 | 3-9/32  | 9/32 | • |
| 5/8  | IPLF20B | 29/32 | 1-1/32 | 1-9/16  | 3-3/8   | 5/16 | • |

Set Contains:

205IPLF

## Universal Joints (Impact)

- 202IP 2 pc Combination Drive Impact Universal Joint Set**  
 • Includes 3/8" drive and 1/2" drive Impact Swivel Universal Joints

## SPECIAL APPLICATION SOCKETS

### Wing Nut Sockets

#### WNS1 3/8" Drive Wing Nut Socket

- Works on any wing nut up to 3/8"
- Two differently sized slots fit multiple wing nut sizes
- 7/8" external hex allows access to wing nuts on a long stud
- Counterbore in the bottom is sized so that when engaging the fastener the socket does not touch the material the wing nut is holding down, preventing scratching and damage when the wing nut is spun off

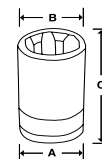


WNS1



### Shallow TORX® Impact

- Various applications on heavy duty trucks with Mercedes-Benz® engines
- Use E18 size for F550 brake rotor.
- Use E20 size for rear brake caliper bolts on BMW® X5.



Set Contains:

207IMFLE

| #   | Stock No. | A     | B     | C      |   |
|-----|-----------|-------|-------|--------|---|
| E8  | IMFLE80A  | 15/32 | 11/16 | 1-5/32 | • |
| E10 | IMFLE100A | 1/2   | 11/16 | 1-5/32 | • |
| E12 | IMFLE120A | 19/32 | 11/16 | 1-5/32 | • |
| E14 | IMFLE140A | 5/8   | 11/16 | 1-5/32 | • |
| E16 | IMFLE160A | 3/4   | 3/4   | 1-1/4  | • |
| E18 | IMFLE180A | 25/32 | 25/32 | 1-5/16 | • |
| E20 | IMSLE200  | 15/16 | 15/16 | 1-1/2  | • |

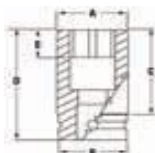
Set shown includes magnetic storage tray.

### Mortorq® Super Socket

- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Industrial finish helps protect against corrosion



IMTSX100



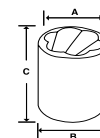
| Size    | Stock No. | A     | B     | C     | D     | E     |
|---------|-----------|-------|-------|-------|-------|-------|
| MTS-X8  | IMTSX80   | 25/64 | 11/16 | 1-1/8 | 1-5/8 | 11/64 |
| MTS-X10 | IMTSX100  | 29/64 | 11/16 | 1-1/8 | 1-5/8 | 15/64 |
| MTS-X12 | IMTSX120  | 9/16  | 11/16 | 1-1/8 | 1-5/8 | 17/64 |
| MTS-X14 | IMTSX140  | 11/16 | 11/16 | —     | 1-1/2 | 5/16  |

# SPECIAL APPLICATION SOCKETS

3/8" DRIVE TOOLS



209TFSMYA



## Twist, Shallow, inches/mm (Blue-Point®)

- Twist sockets remove rounded/damaged fasteners

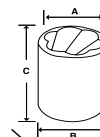
Set Contains:  
209TFSMYA  
213TFSYA

|            |          | A             | B             | C            |   |   |
|------------|----------|---------------|---------------|--------------|---|---|
| 3/8        | TFSY121A | 11/16 (17.5)  | 9/16 (14.3)   | —            |   | • |
| 7/16" (11) | TFSY141A | 11/16 (17.5)  | 21/32 (16.7)  | 1-1/4 (31.8) | • | • |
| 1/2"       | TFSY161A | 3/4 (19.1)    | 3/4 (19.1)    | 1-1/4 (31.8) | • | • |
| 9/16"      | TFSY181A | 13/16 (20.6)  | 13/16 (20.6)  | 1-1/4 (31.8) | • | • |
| 5/8" (16)  | TFSY201A | 29/32 (23.0)  | 29/32 (23.0)  | 1-1/4 (31.8) | • | • |
| 11/16"     | TFSY221A | 31/32 (24.6)  | 31/32 (24.6)  | 1-3/8 (35.0) | • | • |
| 3/4" (19)  | TFSY241A | 1-1/16 (27.0) | 1-1/16 (27.0) | 1-3/8 (35.0) | • | • |
| 10         | TFSY10A  | 11/16 (17.5)  | 19/32 (15.1)  | 1-1/4 (31.8) | • | • |
| 12         | TFSY12A  | 11/16 (17.5)  | 11/16 (17.5)  | 1-1/4 (31.8) | • | • |
| 13         | TFSY13A  | 3/4 (19.1)    | 3/4 (19.1)    | 1-1/4 (31.8) | • | • |
| 14         | TFSY14A  | 13/16 (20.6)  | 13/16 (20.6)  | 1-1/4 (31.8) | • | • |
| 15         | TFSY15A  | 13/16 (20.6)  | 27/32 (21.4)  | 1-1/4 (31.8) | • | • |
| 17         | TFSY17A  | 31/32 (24.6)  | 31/32 (24.6)  | 1-3/8 (35.0) | • | • |

Sets shown include storage tray.



213TFSYA



## Twist, Deep, inches/mm (Blue-Point®)

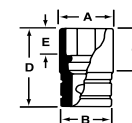
Set Contains:  
213TFSYA

|            |           | A             | B             | C            |   |
|------------|-----------|---------------|---------------|--------------|---|
| 3/8        | TSFSY121A | 11/16 (17.5)  | 9/16 (14.3)   | 2-1/8 (54)   | • |
| 7/16" (11) | TSFSY141A | 11/16 (17.5)  | 21/32 (16.7)  | 2-1/8 (54.0) | • |
| 1/2"       | TSFSY161A | 3/4 (19.1)    | 3/4 (19.1)    | 2-1/8 (54.0) | • |
| 9/16"      | TSFSY181A | 13/16 (20.6)  | 13/16 (20.6)  | 2-3/8 (60.3) | • |
| 5/8" (16)  | TSFSY201A | 29/32 (23.0)  | 29/32 (23.0)  | 2-3/8 (60.3) | • |
| 11/16"     | TSFSY221A | 31/32 (24.6)  | 31/32 (24.6)  | 2-5/8 (66.7) | • |
| 3/4" (19)  | TSFSY241A | 1-1/16 (27.0) | 1-1/16 (27.0) | 2-5/8 (66.7) | • |
| 10         | TSFSY10A  | 11/16 (17.5)  | 19/32 (15.1)  | 2-1/8 (54.0) | • |
| 12         | TSFSY12A  | 11/16 (17.5)  | 11/16 (17.5)  | 2-1/8 (54.0) | • |
| 13         | TSFSY13A  | 3/4 (19.1)    | 3/4 (19.1)    | 2-1/8 (54.0) | • |
| 14         | TSFSY14A  | 13/16 (20.6)  | 13/16 (20.6)  | 2-3/8 (60.3) | • |
| 15         | TSFSY15A  | 13/16 (20.6)  | 27/32 (21.4)  | 2-3/8 (60.3) | • |
| 17         | TSFSY17A  | 31/32 (24.6)  | 31/32 (24.6)  | 2-5/8 (66.7) | • |

Set shown includes storage tray.



DPFM12



## Shallow, 10 pt

|    |        | A    | B    | D    | E   |
|----|--------|------|------|------|-----|
| 12 | DPFM12 | 18.3 | 18.3 | 26.9 | 7.1 |

### DPFM12 3/8" Drive 10-Point Metric 12 mm Shallow Impact Socket

- The DPFM12 is for clutch pressure plate bolts found on the flywheel assembly on Mitsubishi® Eclipse® and Dodge® Stratus vehicles
- Formed from tough alloy steel
- Heat treated to a lower hardness to add impact resistance and ductility

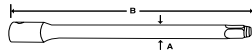


• Read safety precautions on pages W1 to W4

## POWER ACCESSORIES



PF11A



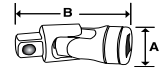
### Locking Button Extensions (Power)

Use with power or impact sockets with retention holes.

| Stock No. | A   | B  |
|-----------|-----|----|
| PF3       | 1/2 | 3  |
| PF6       | 1/2 | 6  |
| PF11A     | 1/2 | 11 |



PFU8A

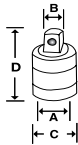


### Universal Joints (Power)

| Stock No. | Socket Attachment | A   | B       |
|-----------|-------------------|-----|---------|
| PFU8A     | Pin Type          | 3/4 | 1-31/32 |



PA4F

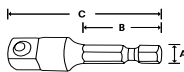


### Adaptors (Power)

| Stock No. | Socket Attachment | A   | B   | C     | D       |
|-----------|-------------------|-----|-----|-------|---------|
| PA4F      | Pin Type          | 1/2 | 3/8 | 15/16 | 1-13/16 |
| PA2A      | Pin Type          | 3/8 | 1/2 | 3/4   | 1-5/16  |



A3042



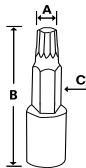
### Hex-To Square-Adaptors (Power)

| Stock No. | Socket Attachment | A    | B     | C     |
|-----------|-------------------|------|-------|-------|
| A3042     | Pin Type          | 1/4  | 1     | 2     |
| A3044     | Pin Type          | 1/4  | 1     | 4     |
| A3046     | Pin Type          | 1/4  | 1-1/4 | 6     |
| A3017A    | Pin Type          | 7/16 | 1-1/4 | 1-3/4 |

## POWER BIT SOCKETS



PFTX30E

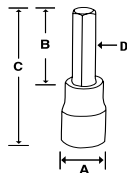


### ★ TORX®/Standard (Power), Industrial (3/8")

| #   | Stock No. | A    | B     | C       |
|-----|-----------|------|-------|---------|
| T27 | PFTX27E   | 3/16 | 1-3/4 | FTX27E2 |
| T30 | PFTX30E   | 3/16 | 1-3/4 | FTX30E2 |
| T40 | PFTX40E   | 1/4  | 1-3/4 | FTX40E2 |



PFAM6E

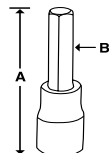


### Hex/Standard (Power), mm, Industrial (3/8")

| mm |         | A    | B       |
|----|---------|------|---------|
| 4  | PFAM4E  | 17.2 | FAM4E2  |
| 5  | PFAM5E  | 17.2 | FAM5E2  |
| 6  | PFAM6E  | 17.2 | FAM6E2  |
| 7  | PFAM7E  | 17.2 | FAM7E2  |
| 8  | PFAM8E  | 17.2 | FAM8E2  |
| 9  | PFAM9E  | 18.0 | FAM9E2  |
| 10 | PFAM10E | 18.0 | SAM10E2 |



PFA8E



### Hex/Standard (Power), inches, Industrial (3/8")

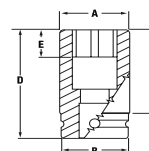
|      |         | A      | Fits These Cap Screws | Fits These Set Screws | B        |
|------|---------|--------|-----------------------|-----------------------|----------|
| 1/8  | PFA4E   | 2-1/16 | —                     | 1/4"                  | TMA4E2   |
| 9/64 | PFA4.5E | 2-1/16 | #8                    | —                     | TMA4.5E2 |
| 5/32 | PFA5E   | 2-1/16 | #10                   | 5/16"                 | FA5E2    |
| 3/16 | PFA6E   | 2-1/16 | 1/4"                  | 3/8"                  | FA6E2    |
| 7/32 | PFA7E   | 2-1/16 | —                     | 5/16"                 | FA7E2    |
| 1/4  | PFA8E   | 2-1/16 | 7/16"                 | 1/2"                  | FA8E2    |
| 5/16 | PFA10E  | 2-1/16 | 3/8"                  | 5/8"                  | FA10E2   |
| 3/8  | PFA12E  | 2-1/16 | 1/4" and 1/2"         | 3/4"                  | FA12E2   |

## Shallow Magnetic, mm, Industrial

| mm | 6        | 12       | A    | B    | D    | E   |
|----|----------|----------|------|------|------|-----|
| 10 | MFIMM10A | MFIMMD10 | 15.1 | 17.2 | 29.1 | 4.7 |
| 12 | MFIMM12  | —        | 18.1 | 19.1 | 28.6 | 3.7 |
| 13 | MFIMM13  | —        | 19.4 | 19.4 | 28.6 | 3.9 |
| 15 | MFIMM15  | —        | 21.6 | 21.8 | 28.6 | 3.9 |



MFIMM15



### MFIMMD10 3/8" Drive 12-Point Metric 10 mm Shallow Magnetic Power Socket

- For use on Detroit Diesel® 60 series, the MFIMMD10 is used on the three camshaft gear thrust plate bolts located inside the camshaft gear cover within the front gear case on the engine
- The mechanic must go through the cover to start the bolts; if one is dropped, it is very labor intensive and time consuming to retrieve
- Applies to 2002 and later 60 series Detroit Diesel® engines with the compact gear case (please note: earlier engines with the tall gear case have 13 mm six-point bolts)
- Please use MFIMM13 for this application

## Shallow Magnetic, inches, Industrial

| in   | 6       | A     | B     | D      | E    |
|------|---------|-------|-------|--------|------|
| 5/16 | MFIM101 | 15/32 | 11/16 | 1-1/16 | 3/32 |
| 3/8  | MFIM121 | 17/32 | 11/16 | 1-1/16 | 1/8  |
| 7/16 | MFIM141 | 5/8   | 11/16 | 1-1/16 | 5/32 |
| 1/2  | MFIM161 | 25/32 | 25/32 | 1-1/16 | 5/32 |
| 9/16 | MFIM181 | 7/8   | 7/8   | 1-1/16 | 5/32 |



MFIM101

## Deep Magnetic Spring Loaded, mm, Industrial

| mm | 6         | A    | B    | D    | E   |
|----|-----------|------|------|------|-----|
| 10 | SMFIMM10B | 15.1 | 17.2 | 50.8 | 7.1 |
| 12 | SMFIMM12B | 18.1 | 19.1 | 50.8 | 7.1 |
| 13 | SMFIMM13B | 19.4 | 19.4 | 50.8 | 7.6 |



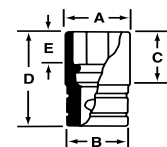
SMFIMM13B

## Deep, mm, Natural

| mm | 6      | A    | B    | C    | D    | E   |
|----|--------|------|------|------|------|-----|
| 10 | DFSM10 | 14.5 | 17.2 | 42.5 | 54.0 | 8.4 |



DFSM10



## Surface Drive (M-Series)

For use in the industrial market for assembly line work. The lead-in chamfer and special design of these sockets will engage with a fastener while rotating on a power nut runner.

| mm | 6     | A    | B    | C    | D    | E   |
|----|-------|------|------|------|------|-----|
| 10 | M2110 | 16.5 | 19.1 | 16.5 | 31.8 | 7.4 |
| 10 | M2210 | 16.5 | 19.1 | 39.1 | 50.8 | 7.4 |



M2110



• Do not use chrome or industrial finish power tools with impact drivers  
• Read safety precautions on pages W1 to W4

## FOAM SETS

### Foam Sets

- Designed for maximum tool concentration on smallest possible footprint
- Modular foam trays can be reconfigured in-drawer to accommodate new tools sets
- Dice cut angle for nesting additional sets
- Flexible and expandable as tool collection evolves
- Closed cell cross-linked foam for superior performance and durability resists oils, solvents and fuels – easy to clean
- Contrasting colors provide visual control which eliminates time searching for missing tools
- Protects your investment and increases productivity
- Fits in 2" standard drawer



209RATEXFR01



203RT01FMBR

### 209RATEXFR01 9 pc 3/8" Drive Flex Head Ratchet and Extension Foam Set

| Stock No. | Description                                     |
|-----------|---|
| FKF80A    | Stubby Handle Flex Head Ratchet                 |
| FH80      | Standard Red Soft Grip Handle Ratchet           |
| FHF80A    | Standard Red Soft Grip Handle Flex Head Ratchet |
| FX1       | 3/8" Drive 1-1/2" Friction Ball Extension       |
| FXK3      | 3/8" Drive 3" Knurled Friction Ball Extension   |
| FXK4      | 3/8" Drive 4" Knurled Friction Ball Extension   |
| FXK6      | 3/8" Drive 6" Knurled Friction Ball Extension   |
| FXK8      | 3/8" Drive 8" Knurled Friction Ball Extension   |
| FXK11     | 3/8" Drive 11" Knurled Friction Ball Extension  |

### 203RT01FMBR 3 pc 3/8" Drive Soft Grip Ratchet Foam Set

| Stock No. | Description                                     |
|-----------|---|
| FKF80A    | Stubby Handle Flex Head Ratchet                 |
| FH80      | Standard Red Soft Grip Handle Ratchet           |
| FHF80A    | Standard Red Soft Grip Handle Flex Head Ratchet |



## GENERAL SERVICE SETS



206AFSP

### Build Your Own Set

The 206AFSP Handle Set is the foundation for the ideal basic general service set. Add any of the suggested socket sets or choose from various special-purpose sockets available in fractional and metric sizes.

|  | Stock No. |  | Stock No. |
|---|-----------|---|-----------|
| 11 pc 3/8" Drive 12-Point SAE Deep Flank Drive® Socket Set                          | 211SFY    | 12 pc 3/8" Drive 12-Point Metric Flank Drive® Deep Socket Set                         | 212SFMY   |
| 11 pc 3/8" Drive 6-Point SAE Flank Drive® Deep Socket Set                           | 211SFSY   | 12 pc 3/8" Drive 6-Point Metric Flank Drive® Semi-Deep Socket Set                     | 212FSMSY  |
| 11 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Socket Set                        | 211FSY    | 12 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Socket Set                          | 212SFSMY  |
| 7 pc 3/8" Drive 6-Point SAE Flank Drive® Deep Universal Socket Set                  | 207FSU    | 12 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Socket Set                       | 212FSMY   |
|   |           | 12 pc 3/8" Drive 12-Point Metric Flank Drive® Shallow Socket Set                      | 212FMY    |

Sets include storage case.

### 206AFSP 6 pc 3/8" Drive Handle Set

- Start with the 206AFSP Handle Set, the ideal base for a personally customized basic general service set
- Add any of the suggested socket sets or choose from the many special purpose sockets available in both SAE and metric sizes
- The 206AFSP set is packaged in the blow-molded PB16B plastic case, which has a large enough cavity to store as many as four rows of standard-length sockets, two rows of deep or universal sockets, or combinations of any of these

- **Suggested SAE Set Additions:**  
 211FSY 6-Point Shallow Set  
 212FY 6-Point Shallow Set  
 211SFSY 6-Point Deep Set  
 211SFY 12-Point Shallow Set  
 207FSU 6-Point Deep Universal Set  
 211FDSY 12-Point Semi-Deep Set
- **Suggested Metric Set Additions:**  
 212FSMY 6-Point Shallow Set  
 212SFSMY 6-Point Semi-Deep Set  
 212SFMY 12-Point Deep Set  
 212FSMSY 6-Point Semi-Deep Set  
 212FMSY 12-Point Semi-Deep Set  
 212FMY 12-Point Shallow Set

- Includes: F80 Sealed Ratchet, FU8A Universal Joint, FX1 Extension (1-1/2"), FXK3 Knurled Extension (3"), FXK6 Knurled Extension (6") and FXK11 Knurled Extension (11")

**6-Point, Inches, Chrome**

**218AFSP 18 pc 3/8" Drive 6-Point SAE Shallow General Service Socket Set**

- Includes (18) tools (1/4–7/8")
- Includes Dual 80® Technology Standard Handle Ratchet, Speeder, Breaker Bar, Universal Joint, and 3, 6 and 11" Knurled Extensions in a storage tray



**218AFSP**

| 6-Point Shallow Sockets |              | 6-Point Shallow Sockets |              | Also Includes: | Stock No.  | Description                               |
|-------------------------|--------------|-------------------------|--------------|----------------|--|---|
| 1/4                     | <b>FS081</b> | 5/8                     | <b>FS201</b> |                | <b>F4LB</b>                                      | 3/8" Drive 17-27/32" Speeder Drive Handle |
| 5/16                    | <b>FS101</b> | 11/16                   | <b>FS221</b> | <b>FU8A</b>    | 3/8" Drive 2-1/16" Friction Ball Universal Joint |   |
| 3/8                     | <b>FS121</b> | 3/4                     | <b>FS241</b> | <b>FXK3</b>    | 3/8" Drive 3" Knurled Friction Ball Extension    |   |
| 7/16                    | <b>FS141</b> | 13/16                   | <b>FS261</b> | <b>FXK6</b>    | 3/8" Drive 6" Knurled Friction Ball Extension    |   |
| 1/2                     | <b>FS161</b> | 7/8                     | <b>FS281</b> | <b>FXK11</b>   | 3/8" Drive 11" Knurled Friction Ball Extension   |   |
| 9/16                    | <b>FS181</b> |                         |              | <b>F10LD</b>   | 3/8" Drive 9-9/16" Breaker Bar                   |   |

Set includes storage case.

**6-Point, Inches, Chrome**

| 6-Point Shallow Sockets | 6-Point Shallow Sockets |
|-------------------------|-------------------------|
| 3/8                     | <b>FS121</b>            |
| 7/16                    | <b>FS141</b>            |
| 1/2                     | <b>FS161</b>            |
| 9/16                    | <b>FS181</b>            |
| 5/8                     | <b>FS201</b>            |
| 11/16                   | <b>FS221</b>            |
| 3/4                     | <b>FS241</b>            |



**210AFSP**

| Also Includes: | F80         | Standard Handle Ratchet                       |
|----------------|-------------|---|
|                | <b>FXK3</b> | 3/8" Drive 3" Knurled Friction Ball Extension |
|                | <b>FXK6</b> | 3/8" Drive 6" Knurled Friction Ball Extension |

Set includes storage case.

**210AFSP 10 pc 3/8" Drive 6-Point SAE General Service Set**

- Set includes (7) 6-Point Shallow Sockets (3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4"), F80 Standard Handle Sealed Ratchet and (2) Knurled Extensions (FXK3 3" and FXK6 6")

**6-Point, Inches, Chrome**

**222AFSP 22 pc 3/8" Drive 6-Point SAE General Service Socket Set**

- Includes (22) Shallow Sockets (3/8–3/4") and Deep Sockets (3/8–3/4")
- Includes Dual 80® Technology Standard Handle Ratchet, 13/16" Spark Plug Socket, 5/8" Spark Plug Socket, Breaker Bar, Universal Joint and 3, 4 and 8" Knurled Extensions in a storage case



**222AFSP**

| 6-Point Shallow Sockets |              | 6-Point Deep Sockets |               | Also Includes: | F80   | Standard Handle Ratchet                          |
|-------------------------|--------------|----------------------|---------------|----------------|---|--|
| 3/8                     | <b>FS121</b> | 3/8                  | <b>SFS121</b> |                | <b>FU8A</b>                                   | 3/8" Drive 2-1/16" Friction Ball Universal Joint |
| 7/16                    | <b>FS141</b> | 7/16                 | <b>SFS141</b> | <b>FXK3</b>    | 3/8" Drive 3" Knurled Friction Ball Extension |  |
| 1/2                     | <b>FS161</b> | 1/2                  | <b>SFS161</b> | <b>FXK4</b>    | 3/8" Drive 4" Knurled Friction Ball Extension |  |
| 9/16                    | <b>FS181</b> | 9/16                 | <b>SFS181</b> | <b>FXK8</b>    | 3/8" Drive 8" Knurled Friction Ball Extension |  |
| 5/8                     | <b>FS201</b> | 5/8                  | <b>SFS201</b> |                |   |  |
| 11/16                   | <b>FS221</b> | 11/16                | <b>SFS221</b> |                |   |  |
| 3/4                     | <b>FS241</b> | 3/4                  | <b>SFS241</b> |                |   |  |

Set includes storage case.



- Do not use chrome or industrial finish power tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## GENERAL SERVICE SETS





218AFP

### 12-Point, Inches, Chrome

#### 218AFP 18 pc 3/8" Drive 12-Point SAE General Service Socket Set

- Includes (18) tools (1/4–7/8")
- Includes Dual 80® Technology Standard Handle Ratchet, Speeder, Breaker Bar, Universal Joint and 3, 6 and 11" Knurled Extensions

|  | 12-Point Shallow Socket |  | 12-Point Shallow Socket | Also Includes: | F4LB  | 3/8" Drive 17-27/32" Speeder Drive Handle              |
|---|-------------------------|---|-------------------------|----------------|-------|--|
| 1/4   | F081                    | 5/8   | F201                    |                | F80   | 3/8" Drive Dual 80® Technology Standard Handle Ratchet |
| 5/16  | F101                    | 11/16   | F221                    |                | FU8A  | 3/8" Drive 2-1/16" Friction Ball Universal Joint       |
| 3/8   | F121                    | 3/4   | F241                    |                | FXK11 | 3/8" Drive 11" Knurled Friction Ball Extension         |
| 7/16  | F141                    | 13/16   | F261                    |                | FXK3  | 3/8" Drive 3" Knurled Friction Ball Extension          |
| 1/2   | F161                    | 7/8   | F281                    |                | FXK6  | 3/8" Drive 6" Knurled Friction Ball Extension          |
| 9/16  | F181                    | 15/16   | F301                    |                |       |  |

Set includes storage case.






248F

### 12-Point, Inches, Chrome

#### 248F 48 pc 3/8" Drive 12-Point SAE Shallow/Deep/Universal Combination General Service Socket Set

- Includes Shallow Sockets (1/4–15/16")
- Includes Deep Sockets (1/4–7/8")
- Includes Universal Sockets (5/16–1")
- Includes Dual 80® Technology Standard Handle Ratchet, Plastic Handle Driver, Ratchet Spinner, Speeder, Ratchet Adaptor, Sliding T-Handle, Universal Joint, Breaker Bar, and 8" Flexible Extension and 3, 4 6 and 11" Knurled Extensions (48 pc)

|  | 12-Point Shallow Socket |  | 12-Point Deep Socket |  | 12-Point Shallow Universal Socket | Also Includes: | F40B   | 3/8" Drive 5-15/16" Hard Handle Stubby Shank Driver    |
|---|-------------------------|---|----------------------|---|-----------------------------------|----------------|--------|--|
| 1/4   | F081                    | 1/4   | SF081                | 5/16  | FU10C                             |                | F4LB   | 3/8" Drive 17-27/32" Speeder Drive Handle              |
| 5/16  | F101                    | 5/16  | SF101                | 3/8   | FU12C                             |                | F5L    | 3/8" Drive 8" Sliding T-Handle                         |
| 3/8   | F121                    | 3/8   | SF121                | 7/16  | FU14C                             |                | F77A   | 3/8" Drive 20-Tooth Ratchet Adaptor                    |
| 7/16  | F141                    | 7/16  | SF141                | 1/2   | FU16C                             |                | F80    | 3/8" Drive Dual 80® Technology Standard Handle Ratchet |
| 1/2   | F161                    | 1/2   | SF161                | 9/16  | FU18B                             |                | FRS70A | 3/8" Drive Spinner Ratchet                             |
| 9/16  | F181                    | 9/16  | SF181                | 5/8   | FU20B                             |                | FU8A   | 3/8" Drive 2-1/16" Friction Ball Universal Joint       |
| 5/8   | F201                    | 5/8   | SF201                | 11/16   | FU22B                             |                | FXK11  | 3/8" Drive 11" Knurled Friction Ball Extension         |
| 11/16   | F221                    | 11/16   | SF221                | 3/4   | FU24B                             |                | FXK3   | 3/8" Drive 3" Knurled Friction Ball Extension          |
| 3/4   | F241                    | 3/4   | SF241                | 13/16   | FU26B                             |                | FXK4   | 3/8" Drive 4" Knurled Friction Ball Extension          |
| 13/16   | F261                    | 13/16   | SF261                | 7/8   | FU28B                             |                | FXK6   | 3/8" Drive 6" Knurled Friction Ball Extension          |
| 7/8   | F281                    | 7/8   | SF281                | 15/16   | FU30A                             |                |        |  |
| 15/16   | F301                    | —   | —                    | 1   | FU32A                             |                |        |  |





292F

**292F 92 pc 3/8" Drive 6-/12-Point SAE Shallow/Deep/Universal Combination General Service Socket Set**

|         |  |
|---------|--|
| 211FSY  | 11 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Socket Set |
| 211SFSY | 11 pc 3/8" Drive 6-Point SAE Flank Drive® Deep Socket Set    |
| 211SFY  | 11 pc 3/8" Drive 12-Point SAE Deep Flank Drive® Socket Set   |

|                       |               |   |                   |  |
|-----------------------|---------------|---|-------------------|--|
| <b>Also Includes:</b> | <b>FLF80A</b> | Long Handle Flex Head Ratchet                       | <b>GF22</b>       | 3/8" Drive 11/16" Blade Width Drag Link Socket             |
|                       | <b>F4LB</b>   | 3/8" Drive 17-27/32" Speeder Drive Handle           | <b>F23E</b>       | 3/8" Drive 1/4" Flat Tip Standard Bit Socket Driver        |
|                       | <b>F5L</b>    | 3/8" Drive 8" Sliding T-Handle                      | <b>F25E</b>       | 3/8" Drive 5/16" Flat Tip Standard Bit Socket Driver       |
|                       | <b>F10LD</b>  | 3/8" Drive 9-9/16" Breaker Bar                      | <b>F31E</b>       | 3/8" Drive 3/8" Flat Tip Standard Bit Socket Driver        |
|                       | <b>F40B</b>   | 3/8" Drive 5-15/16" Hard Handle Stubby Shank Driver | <b>F29E</b>       | 3/8" Drive SAE 3/8" Clutch Bit Socket Driver               |
|                       | <b>FRS70A</b> | 3/8" Drive Spinner Ratchet                          | <b>F30E</b>       | 3/8" Drive SAE 5/16" Clutch Socket Driver                  |
|                       | <b>F77A</b>   | Ratchet Adaptor                                     | <b>FA5E</b>       | 3/8" Drive SAE 5/32" Standard Hex Bit Socket Driver        |
|                       | <b>FU8A</b>   | 3/8" Drive 2-1/16" Friction Ball Universal Joint    | <b>FA6E</b>       | 3/8" Drive SAE 3/16" Standard Hex Bit Socket Driver        |
|                       | <b>FX1</b>    | 3/8" Drive 1-1/2" Friction Ball Extension           | <b>FA7E</b>       | 3/8" Drive SAE 7/32" Standard Hex Bit Socket Driver        |
|                       | <b>FXK3</b>   | 3/8" Drive 3" Knurled Friction Ball Extension       | <b>FA8E</b>       | 3/8" Drive SAE 1/4" Standard Hex Bit Socket Driver         |
|                       | <b>FXK4</b>   | 3/8" Drive 4" Knurled Friction Ball Extension       | <b>FA10E</b>      | 3/8" Drive SAE 5/16" Standard Hex Bit Socket Driver        |
|                       | <b>FXK6</b>   | 3/8" Drive 6" Knurled Friction Ball Extension       | <b>FA12E</b>      | 3/8" Drive SAE 3/8" Standard Hex Bit Socket Driver         |
|                       | <b>FXK8</b>   | 3/8" Drive 8" Knurled Friction Ball Extension       | <b>PP409A</b>     | 3/8" Drive SAE 9/32" Internal Pipe Plug Socket             |
|                       | <b>FXK11</b>  | 3/8" Drive 11" Knurled Friction Ball Extension      | <b>PP410A</b>     | 3/8" Drive SAE 5/16" Internal Pipe Plug Socket             |
|                       | <b>FP22E</b>  | 3/8" Drive #2 PHILLIPS® Standard Bit Socket Driver  | <b>PP412A</b>     | 3/8" Drive SAE 3/8" Internal Pipe Plug Socket              |
|                       | <b>FP32E</b>  | 3/8" Drive #3 PHILLIPS® Standard Bit Socket Driver  | <b>BLPEXTF388</b> | 3/8" Drive 8" Flexible Extension (Blue-Point®)             |
|                       | <b>FP42E</b>  | 3/8" Drive #4 PHILLIPS® Long Socket Driver          | <b>F111</b>       | 3/8" Drive 12-Point SAE 11/32" Flank Drive® Shallow Socket |

Set includes storage case.



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## GENERAL SERVICE SETS



**STARTERSET3**

### 6-Point, mm, Chrome

#### STARTERSET3 17 pc 3/8" Drive Deep 6-Point Metric Starter Set

- High-strength sealed-head ratchet built for strength, precision and durability
- Sockets feature Flank Drive® wrenching system, which grips the fastener on the flanks/flats, increasing torque by 15–20%
- Nickel-chrome plating provides a mirror-like, wear-resistant finish
- Universal joint helps increase access to hard-to-reach fasteners
- Stronger alloy steel allows extensions to be turned to a smaller diameter for greater accessibility

| mm | 6-Point Deep Sockets | mm | 6-Point Deep Sockets | Also Includes: | FL80    | 3/8" Drive Dual 80® Technology Long Handle Ratchet                 |
|----|----------------------|----|----------------------|----------------|---------|--|
| 8  | SFSM8                | 14 | SFSM14               |                | FU8A    | 3/8" Drive 2-1/16" Friction Ball Universal Joint                   |
| 9  | SFSM9                | 15 | SFSM15               |                | FXK3    | 3/8" Drive 3" Knurled Friction Ball Extension                      |
| 10 | SFSM10               | 16 | SFSM16               |                | FXK6    | 3/8" Drive 6" Knurled Friction Ball Extension                      |
| 11 | SFSM11               | 17 | SFSM17               |                | S9706KA | 3/8" Drive 6-Point SAE 5/8" Flank Drive® Shallow Spark Plug Socket |
| 12 | SFSM12               | 18 | SFSM18               |                |         |  |
| 13 | SFSM13               | 19 | SFSM19               |                |         |  |



**STARTERSET5**

### 6-Point, mm, Chrome

#### STARTERSET5 17 pc 3/8" Drive Shallow 6-Point Metric Starter Set

- High-strength sealed head ratchet built for strength, precision and durability
- Wobble engagement on extensions provides 16° of additional accessibility
- Sockets feature Flank Drive® wrenching system which grips the fastener on the flanks/flats increasing torque by up to 15%–20%
- Nickel-chrome plating provides a wear-resistant finish along with a mirror-like finish
- Highest quality steel on breaker bar provides strength and durability

| mm | 6-Point Shallow Sockets | mm | 6-Point Shallow Sockets | Also Includes: | F12LB | 3/8" Drive 11-9/16" Long Handle Breaker Bar            |
|----|-------------------------|----|-------------------------|----------------|-------|--|
| 8  | FSM81                   | 14 | FSM141                  |                | F80   | 3/8" Drive Dual 80® Technology Standard Handle Ratchet |
| 9  | FSM91                   | 15 | FSM151                  |                | FXWP1 | 3/8" Drive 1-1/2" Friction Ball Wobble Plus Extension  |
| 10 | FSM101                  | 16 | FSM161                  |                | FXWP3 | 3/8" Drive 3" Knurled Wobble Plus Extension            |
| 11 | FSM111                  | 17 | FSM171                  |                | FXWP6 | 3/8" Drive 6" Knurled Wobble Plus Extension            |
| 12 | FSM121                  | 18 | FSM181                  |                |       |  |
| 13 | FSM131                  | 19 | FSM191                  |                |       |  |

**6-Point, mm, Chrome**

**222AFSMP 22 pc 3/8" Drive 6-Point Metric General Service Socket Set**

- Includes (7) Shallow Sockets (10, 11, 13–15, 17 and 19 mm)
- Includes (7) Deep Sockets (10, 11, 13–15, 17 and 19 mm)
- Dual 80<sup>®</sup> Technology Standard Handle Ratchet, Universal Joint, Breaker Bar, 3, 4 and 8" Knurled Extensions, 13/16 and 5/8" Spark Plug Sockets and a storage case



**222AFSMP**

| mm | 6-Point Shallow Sockets | mm | 6-Point Deep Sockets | Also Includes: | Item   | Description  |
|----|-------------------------|----|----------------------|----------------|--|--|
| 10 | FSM101                  | 10 | SFSM10               |                | F80  | 3/8" Drive Dual 80 <sup>®</sup> Technology Standard Handle Ratchet               |
| 11 | FSM111                  | 11 | SFSM11               |                | FU8A   | 3/8" Drive 2-1/16" Friction Ball Universal Joint                                 |
| 13 | FSM131                  | 13 | SFSM13               |                | F10LD  | 3/8" Drive 9-9/16" Breaker Bar   |
| 14 | FSM141                  | 14 | SFSM14               |                | FXK3   | 3/8" Drive 3" Knurled Friction Ball Extension                                    |
| 15 | FSM151                  | 15 | SFSM15               |                | FXK4   | 3/8" Drive 4" Knurled Friction Ball Extension                                    |
| 17 | FSM171                  | 17 | SFSM17               |                | FXK8   | 3/8" Drive 8" Knurled Friction Ball Extension                                    |
| 19 | FSM191                  | 19 | SFSM19               |                | S9704KA  | 3/8" Drive 6-Point SAE 13/16" Flank Drive <sup>®</sup> Shallow Spark Plug Socket |
|    |                         |    |                      | S9706KA        | 3/8" Drive 6-Point SAE 5/8" Flank Drive <sup>®</sup> Shallow Spark Plug Socket |  |
|    |                         |    |                      | PB17B          | Storage Case   |  |

**6/12-Point, mm, Chrome**

**262MFB 61 pc 3/8" Drive 6-/12-Point Metric General Service Socket Set**

- Includes (12) 6-point Shallow Sockets (8–19 mm)
- (11) 12-point shallow sockets (9–19 mm)
- Includes (12 pc) 12-point Deep Sockets (8–19 mm)
- (22) 6-point Shallow Universal Sockets (8, 10–19 and 22 mm)
- Dual 80<sup>®</sup> Technology Standard Handle Ratchet, Speeder, Breaker Bar, Plastic Handle Driver, Ratchet Spinner, Ratchet Adaptor, Universal Joint, 3, 6 and 11" Knurled Extensions, 13/16" Spark Plug Socket, 8" Flexible Extension, 5/8 and 9/16" Spark Plug Socket and metal box (61 pc)



**262MFB**

| mm | 6-Point Shallow Sockets | mm | 12-Point Shallow Sockets | mm | 12-Point Deep Sockets | mm | 6-Point Shallow Universal Sockets | Also Includes: | Item       | Description  |
|----|-------------------------|----|--------------------------|----|-----------------------|----|-----------------------------------|----------------|------------|--|
| —  | —                       | —  | —                        | —  | —                     | 7  | FSUM7B                            |                | F80        | 3/8" Drive Dual 80 <sup>®</sup> Technology Standard Handle Ratchet               |
| —  | —                       | —  | —                        | —  | —                     | 8  | FSUM8A                            |                | F4LB       | 3/8" Drive 17-27/32" Speeder Drive Handle  |
| —  | —                       | —  | —                        | —  | —                     | 8  | FSUM8B                            |                | F10LD      | 3/8" Drive 9-9/16" Breaker Bar   |
| 9  | FSM91                   | 10 | FM10                     | 9  | SFM9                  | 10 | FSUM10A                           |                | F40B       | 3/8" Drive 5-15/16" Hard Handle Stubby Shank Driver                              |
| —  | —                       | —  | —                        | —  | —                     | 10 | FSUM10B                           |                | FRS70A     | 3/8" Drive Spinner Ratchet   |
| 10 | FSM101                  | 11 | FM11                     | 10 | SFM10                 | 11 | FSUM11A                           |                | F77A       | 3/8" Drive 20-Tooth Ratchet Adaptor  |
| —  | —                       | —  | —                        | —  | —                     | 11 | FSUM11B                           |                | FU8A       | 3/8" Drive 2-1/16" Friction Ball Universal Joint                                 |
| 11 | FSM111                  | 12 | FM12                     | 11 | SFM11                 | 12 | FSUM12A                           |                | FXK3       | 3/8" Drive 3" Knurled Friction Ball Extension                                    |
| —  | —                       | —  | —                        | —  | —                     | 12 | FSUM12B                           |                | FXK6       | 3/8" Drive 6" Knurled Friction Ball Extension                                    |
| 12 | FSM121                  | 13 | FM13                     | 12 | SFM12                 | 13 | FSUM13A                           |                | FXK11      | 3/8" Drive 11" Knurled Friction Ball Extension                                   |
| —  | —                       | —  | —                        | —  | —                     | 13 | FSUM13B                           |                | S9704KA    | 3/8" Drive 6-Point SAE 13/16" Flank Drive <sup>®</sup> Shallow Spark Plug Socket |
| 13 | FSM131                  | 14 | FM14                     | 13 | SFM13                 | 14 | FSUM14A                           |                | BLPEXTF388 | 3/8" Drive 8" Flexible Extension (Blue-Point <sup>®</sup> )                      |
| —  | —                       | —  | —                        | —  | —                     | 14 | FSUM14B                           |                | S9706KA    | 3/8" Drive 6-Point SAE 5/8" Flank Drive <sup>®</sup> Shallow Spark Plug Socket   |
| 14 | FSM141                  | 15 | FM15                     | 14 | SFM14                 | 15 | FSUM15A                           |                | S9716KA    | 3/8" Drive 6-Point SAE 9/16" Flank Drive <sup>®</sup> Spark Plug Socket          |
| 15 | FSM151                  | 16 | FM16                     | 15 | SFM15                 | 16 | FSUM16A                           |                |            |  |
| 16 | FSM161                  | 17 | FM17                     | 16 | SFM16                 | 17 | FSUM17A                           |                |            |  |
| 17 | FSM171                  | 18 | FM18                     | 17 | SFM17                 | 18 | FSUM18A                           |                |            |  |
| 18 | FSM181                  | 19 | FM19                     | 18 | SFM18                 | 19 | FSUM19A                           |                |            |  |
| 19 | FSM191                  | —  | —                        | —  | —                     | 22 | FSUM22A                           |                |            |  |



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

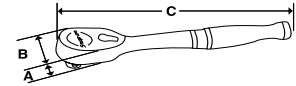
## RATCHETS (Blue-Point®)



BPRFR938



BPRFR938SG



### Quick-Release Ratchets (Blue-Point®) (3/8")

| Stock No.  | Description       | Gear Teeth | Swing Arc | A    | B      | C     | Repair Kit  |
|------------|-------------------|------------|-----------|------|--------|-------|-------------|
| BPRFR938   | Standard          | 38         | 9.5°      | 9/16 | 1-9/32 | 7-3/4 | RKRBPRFR938 |
| BPRFR938SG | Bi-mold Soft Grip | 38         | 9.5°      | 9/16 | 1-9/32 | 7-3/4 | RKRBPFR938  |

ASME®/ANSI® B107.10

#### BPRFR938 3/8" Drive Standard Handle Quick-Release Ratchet (Blue-Point®)

- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Contoured handle for comfort and control
- Chrome finish for easy cleanup

#### BPRFR938SG 3/8" Drive Soft Grip Handle Quick-Release Ratchet (Blue-Point®)

- Quick-release button for rapid socket/accessory changes, even with greasy or oily hands
- Corrosive resistant bi-mold cushion grips for improved comfort and performance
- Chrome finish for easy cleanup

#### BPR703 3 pc Standard Handle Quick-Release Ratchet Set (Blue-Point®)

- 1/4" Drive BPRTR936, 3/8" Drive BPRFR938 and 1/2" Drive BPRSR940 Ratchets (3 pc) in a storage tray

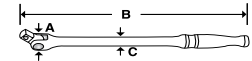
## HANDLES AND ACCESSORIES (Blue-Point®)



FSD1



BLPBB3810



### Ratchet Spinner (Blue-Point®) (3/8")

| Stock No. | Square Drive, inches   | Description                                      |
|-----------|------------------------|--|
| FSD1      | 3/8 Male to 3/8 Female | 3/8" Drive Ratchet Spinner Adaptor (Blue-Point®) |

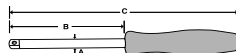
ASME®/ANSI® B107.10

### Breaker Bars (Blue-Point®) (3/8")

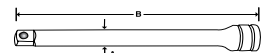
| Stock No. | Description                              | A   | B       | C   |
|-----------|--|-----|---------|-----|
| BLPBB3810 | 3/8" Drive 10" Breaker Bar (Blue-Point®) | 7/8 | 9-31/32 | 1/2 |



BLPCGHD388



BLPEXTK3810



### Handled Drivers (Blue-Point®)

| Stock No.  | Description                             | A   | B | C     |
|------------|---|-----|---|-------|
| BLPCGHD388 | 3/8" Drive Spinner Handle (Blue-Point®) | 1/2 | 4 | 8-5/8 |

### Knurled Extensions, Chrome (Blue-Point®)

| Stock No.   | B       |
|-------------|---------|
| BLPEXTK383  | 2-31/32 |
| BLPEXTK386  | 5-29/32 |
| BLPEXTK3810 | 9-29/32 |

# HANDLES AND ACCESSORIES (Blue-Point®)

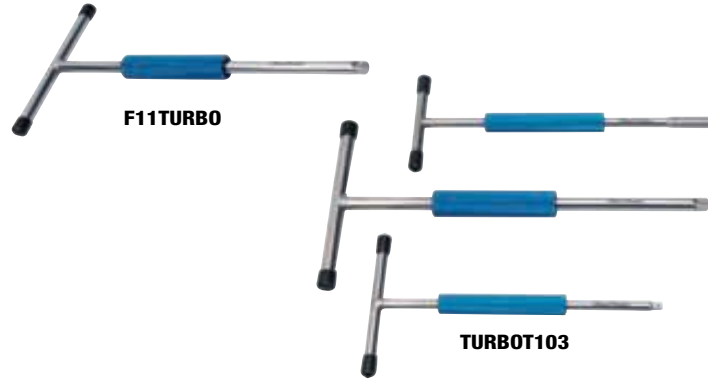
## Turbo T-Handles (Blue-Point®)

### F11TURBO 3/8" Drive Turbo T-Handle Speed Driver (Blue-Point®)

- Constant pressure can be applied to fastener while turning handle
- Faster than ordinary speed wrenches
- Safer on threads than power tools

### TURBOT103 3 pc 1/4" Drive Turbo T-Handle Set (Blue-Point®)

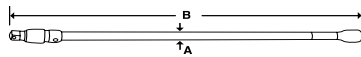
- T9TURBO (1/4" drive), TH10TURBO (1/4" hex) and F11TURBO (3/8" drive)
- Three pieces in storage tray



# EXTENSIONS AND ACCESSORIES (Blue-Point®)



203FXLBP



## Locking Extensions, Chrome (Blue-Point®)

| Stock No. | A   | B  | Set Contains: |
|-----------|-----|----|---------------|
| FXLBP3    | 1/2 | 3  | •             |
| FXLBP6    | 1/2 | 6  | •             |
| FXLBP10   | 1/2 | 10 | •             |

Set shown includes storage tray.



BLPLEXT203

## Extra-Long Locking Extensions (Blue-Point®)

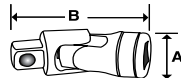
- Smooth, durable chrome finish
- Made from tough 6130 steel
- Secure socket retention
- Lifetime warranty on individual extensions
- Do not use with power or impact tools

| Stock No.   | A   | B  | Set Contains: |
|-------------|-----|----|---------------|
| BLPEXTL3812 | 1/2 | 12 | •             |
| BLPEXTL3818 | 1/2 | 18 | •             |
| BLPEXTL3824 | 1/2 | 24 | •             |

Set shown includes storage tray.



YA525A



## Extensions/Locking (Set Screw), Chrome (Blue-Point®)

- Allows easy and secure tool stacking
- Securely connects breaker bar, extensions and ratchets to socket and socket driver for overhead work
- Sliding sleeve for easy removal
- Not for use with power or impact tools

| Stock No. | A   | B     |
|-----------|-----|-------|
| YA525A    | 3/4 | 2-1/8 |



BLPEXTF388

## Flexible Extensions (Blue-Point®)

| Stock No.  | Finish | Length, inches |
|------------|--------|----------------|
| BLPEXTF388 | Chrome | 8              |

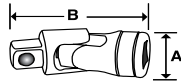


- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## EXTENSIONS AND ACCESSORIES (Blue-Point®)



BLPUJ38



### Universal Joints, Chrome (Blue-Point®)

| Stock No. | B      |
|-----------|--------|
| BLPUJ38   | 2-1/32 |

## SOCKETS (Blue-Point®)



BLPLM3810



BLPLM3816



BLPLM3822



BLPSM389



BLPSM3815



BLPSM3822

### Deep, mm, Chrome (Blue-Point®)

| mm | 12        | Length, mm |
|----|-----------|------------|
| 6  | BLPLM386  | 64         |
| 7  | BLPLM387  | 64         |
| 8  | BLPLM388  | 64         |
| 9  | BLPLM389  | 64         |
| 10 | BLPLM3810 | 64         |
| 11 | BLPLM3811 | 64         |
| 12 | BLPLM3812 | 64         |
| 13 | BLPLM3813 | 64         |
| 14 | BLPLM3814 | 64         |
| 15 | BLPLM3815 | 64         |
| 16 | BLPLM3816 | 64         |
| 17 | BLPLM3817 | 64         |
| 18 | BLPLM3818 | 64         |
| 19 | BLPLM3819 | 64         |
| 20 | BLPLM3820 | 64         |
| 21 | BLPLM3821 | 64         |
| 22 | BLPLM3822 | 64         |
| 23 | BLPLM3823 | 64         |
| 24 | BLPLM3824 | 64         |

### Shallow, mm, Chrome (Blue-Point®)

| mm | 6         | Length, mm |
|----|-----------|------------|
| 6  | BLPSM386  | 25.5       |
| 7  | BLPSM387  | 25.5       |
| 8  | BLPSM388  | 25.5       |
| 9  | BLPSM389  | 25.5       |
| 10 | BLPSM3810 | 25.5       |
| 11 | BLPSM3811 | 25.5       |
| 12 | BLPSM3812 | 25.5       |
| 13 | BLPSM3813 | 25.5       |
| 14 | BLPSM3814 | 27         |
| 15 | BLPSM3815 | 27         |
| 16 | BLPSM3816 | 27         |
| 17 | BLPSM3817 | 27         |
| 18 | BLPSM3818 | 27         |
| 19 | BLPSM3819 | 29         |
| 20 | BLPSM3820 | 29         |
| 21 | BLPSM3821 | 29         |
| 22 | BLPSM3822 | 31         |
| 23 | BLPSM3823 | 31         |
| 24 | BLPSM3824 | 31         |

## SOCKETS (Blue-Point®)



BLPL3838



BLPL3834




BLPS3838




BLPS3878

### Deep, Inches, Chrome (Blue-Point®)

|  | Length, inches     |
|---|--------------------|
| 1/4   | BLPL3814 2-17/32   |
| 5/16  | BLPL38516 2-17/32  |
| 3/8   | BLPL3838 2-17/32   |
| 7/16  | BLPL38716 2-17/32  |
| 1/2   | BLPL3812 2-17/32   |
| 9/16  | BLPL38916 2-17/32  |
| 5/8   | BLPL3858 2-17/32   |
| 11/16   | BLPL381116 2-17/32 |
| 3/4   | BLPL3834 2-17/32   |
| 13/16   | BLPL381316 2-17/32 |
| 7/8   | BLPL3878 2-17/32   |
| 15/16   | BLPL381516 2-17/32 |
| 1   | BLPL381 2-17/32    |

### Shallow, Inches, Chrome (Blue-Point®)

|  | Length, inches    |
|---|-------------------|
| 1   | BLPS381 1-7/32    |
| 11/16   | BLPS381116 1-1/16 |
| 1/2   | BLPS3812 1        |
| 13/16   | BLPS381316 1-5/32 |
| 1/4   | BLPS3814 1        |
| 15/16   | BLPS381516 1-7/32 |
| 3/4   | BLPS3834 1-5/32   |
| 3/8   | BLPS3838 1        |
| 5/16  | BLPS38516 1       |
| 5/8   | BLPS3858 1-1/16   |
| 7/16  | BLPS38716 1       |
| 7/8   | BLPS3878 1-7/32   |
| 9/16  | BLPS38916 1-1/16  |

### TORX®/Shallow, Chrome (Blue-Point®)

| #   | Stock No. | Length, inches |
|-----|-----------|----------------|
| E4  | BLPTE384  | 1-7/32         |
| E5  | BLPTE385  | 1-7/32         |
| E6  | BLPTE386  | 1-7/32         |
| E7  | BLPTE387  | 1-7/32         |
| E8  | BLPTE388  | 1-7/32         |
| E10 | BLPTE3810 | 1-7/32         |
| E12 | BLPTE3812 | 1-7/32         |
| E14 | BLPTE3814 | 1-7/32         |
| E16 | BLPTE3816 | 1-7/32         |
| E18 | BLPTE3818 | 1-7/32         |
| E20 | BLPTE3820 | 1-7/32         |



BLPTE386



BLPTE3818

### TORX® BIT SOCKETS (Blue-Point®)



BLPT3845



BLPTL3845

### TORX®/Standard (Blue-Point®)

| #   | Stock No. | Length, inches |
|-----|-----------|----------------|
| T40 | BLPT3840  | 2              |
| T45 | BLPT3845  | 2              |
| T50 | BLPT3850  | 2              |

### TORX®/Long (Blue-Point®)

| #   | Stock No. | Length, inches |
|-----|-----------|----------------|
| T40 | BLPTL3840 | 3-5/32         |
| T45 | BLPTL3845 | 3-5/32         |
| T50 | BLPTL3850 | 3-5/32         |



• Do not use chrome or industrial finish hand tools with impact drivers  
• Read safety precautions on pages W1 to W4

## TORX® BIT SOCKETS (Blue-Point®)



BLPT3845TP

★ TORX®/Tamper-Resistant, Chrome (Blue-Point®) (3/8")

| #   | Stock No.  | Length, inches |
|-----|------------|----------------|
| T10 | BLPT3810TP | 1-27/32        |
| T15 | BLPT3815TP | 1-27/32        |
| T20 | BLPT3820TP | 1-27/32        |
| T25 | BLPT3825TP | 1-27/32        |
| T27 | BLPT3827TP | 1-27/32        |
| T30 | BLPT3830TP | 1-27/32        |
| T40 | BLPT3840TP | 2              |
| T45 | BLPT3845TP | 2              |
| T50 | BLPT3850TP | 2              |
| T55 | BLPT3855TP | 2              |



BLPTL3845TP

★ TORX®/Tamper-Resistant, Long, Chrome (Blue-Point®) (3/8")

| #   | Stock No.   | Length, inches |
|-----|-------------|----------------|
| T40 | BLPTL3840TP | 4-3/8          |
| T45 | BLPTL3845TP | 4-3/8          |
| T50 | BLPTL3850TP | 4-3/8          |

## METRIC HEX BIT SOCKETS (Blue-Point®)



BLPH3810

Hex/Standard, mm, Chrome (Blue-Point®) (3/8")

| mm |          | Length, mm |
|----|----------|------------|
| 6  | BLPH386  | 47         |
| 7  | BLPH387  | 47         |
| 8  | BLPH388  | 50.5       |
| 9  | BLPH389  | 50.5       |
| 10 | BLPH3810 | 50.5       |



BLPHL389

Hex/Long, mm, Chrome (Blue-Point®)

| mm |           | Length, mm |
|----|-----------|------------|
| 7  | BLPHL387  | 80.5       |
| 8  | BLPHL388  | 80.5       |
| 9  | BLPHL389  | 80.5       |
| 10 | BLPHL3810 | 80.5       |



BLPH3814

Hex/Standard, Inches, Chrome (Blue-Point®) (3/8")

|      |           | Length, inches |
|------|-----------|----------------|
| 7/32 | BLPH38732 | 1-15/16        |
| 1/4  | BLPH3814  | 1-15/16        |
| 5/16 | BLPH38516 | 1-15/16        |
| 3/8  | BLPH3838  | 1-15/16        |



BLPHL38516

Hex/Long, Inches, Chrome (Blue-Point®)

|      |            | Length, inches |
|------|------------|----------------|
| 7/32 | BLPHL38732 | 3-5/32         |
| 1/4  | BLPHL3814  | 3-5/32         |
| 5/16 | BLPHL38516 | 3-5/32         |
| 3/8  | BLPHL3838  | —              |



## TRIPLE SQUARE SOCKET BIT SOCKETS (Blue-Point®)

Triple Square/Stubby, XZN, mm, Chrome (Blue-Point®) (3/8")

| mm | Stock No.   | Set Contains: |
|----|-------------|---------------|
| 4  | BLPXZNM384  | •             |
| 5  | BLPXZNM385  | •             |
| 6  | BLPXZNM386  | •             |
| 8  | BLPXZNM388  | •             |
| 10 | BLPXZNM3810 | •             |
| 12 | BLPXZNM3812 | •             |
| 14 | BLPXZNM3814 | •             |
| 16 | BLPXZNM3816 | •             |
| 18 | BLPXZNM3818 | •             |

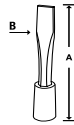


BLPXZNM389

## PHILLIPS® AND POZIDRIV® BIT SOCKETS (Blue-Point®)



BLPP383

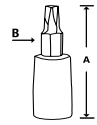


PHILLIPS®/Standard, Chrome (Blue-Point®) (3/8")

| Size | Stock No. | A       |
|------|-----------|---------|
| #3   | BLPP383   | 1-27/32 |
| #4   | BLPP384   | 1-27/32 |



BLPPD383



Pozidriv®/Standard, Inches, Chrome (Blue-Point®) (3/8")

| Size | Stock No. | A       |
|------|-----------|---------|
| #3   | BLPPD383  | 1-27/32 |
| #4   | BLPPD384  | 1-27/32 |

## COMBINATION BIT SOCKETS (Blue-Point®)

BLPTSSC43



BLPTSSC43 Set (43 pc)  
BLPTSSC43 43 pc Combination Drive TORX® Socket and TORX® Bit Socket Driver Set (Blue-Point®)

|   | Stock No.   | Size         | Square Drive, inches |  |
|---|-------------|--------------|----------------------|--|
| TORX® Tamper-Resistant Long Bit Sockets | BLPT146TP   | T6           | 1/4                  |  |
|   | BLPT147TP   | T7           | 1/4                  |  |
|   | BLPT148TP   | T8           | 1/4                  |  |
|   | BLPT149TP   | T9           | 1/4                  |  |
|   | BLPTL1410TP | T10          | 1/4                  |  |
|   | BLPTL1415TP | T15          | 1/4                  |  |
|   | BLPTL1420TP | T20          | 1/4                  |  |
|   | BLPTL1425TP | T25          | 1/4                  |  |
|   | BLPTL1427TP | T27          | 1/4                  |  |
|   | BLPTL1430TP | T30          | 1/4                  |  |
|   | BLPTL3840TP | T40          | 3/8                  |  |
|   | BLPTL3845TP | T45          | 3/8                  |  |
|   | BLPTL3850TP | T50          | 3/8                  |  |
|   | BLPTL1255   | T55          | 1/2                  |  |
|   | BLPTL1260   | T60          | 1/2                  |  |
|   | BLPTSSC43PB | Storage Case |                      |  |

|                                    | Stock No.  | Size | Square Drive, inches |
|------------------------------------|------------|------|----------------------|
| External TORX® Sockets             | BLPTE144   | E4   | 1/4                  |
|                                    | BLPTE145   | E5   | 1/4                  |
|                                    | BLPTE146   | E6   | 1/4                  |
|                                    | BLPTE147   | E7   | 1/4                  |
|                                    | BLPTE148   | E8   | 1/4                  |
|                                    | BLPTE3810  | E10  | 3/8                  |
|                                    | BLPTE3812  | E12  | 3/8                  |
|                                    | BLPTE3814  | E14  | 3/8                  |
|                                    | BLPTE3816  | E16  | 3/8                  |
|                                    | BLPTE1218  | E18  | 1/2                  |
|                                    | BLPTE1220  | E20  | 1/2                  |
|                                    | BLPTE1222  | E22  | 1/2                  |
| BLPTE1224                          | E24        | 1/2  |                      |
| TORX® Tamper-Resistant Bit Sockets | BLPT146TP  | T6   | 1/4                  |
|                                    | BLPT147TP  | T7   | 1/4                  |
|                                    | BLPT148TP  | T8   | 1/4                  |
|                                    | BLPT149TP  | T9   | 1/4                  |
|                                    | BLPT1410TP | T10  | 1/4                  |
|                                    | BLPT1415TP | T15  | 1/4                  |
|                                    | BLPT1420TP | T20  | 1/4                  |
|                                    | BLPT1425TP | T25  | 1/4                  |
|                                    | BLPT1427TP | T27  | 1/4                  |
|                                    | BLPT1430TP | T30  | 1/4                  |
|                                    | BLPT3840TP | T40  | 3/8                  |
| BLPT3845TP                         | T45        | 3/8  |                      |
| BLPT3850TP                         | T50        | 3/8  |                      |



**WARNING**



• Do not use chrome or industrial finish hand tools with impact drivers  
• Read safety precautions on pages W1 to W4

## COMBINATION BIT SOCKETS (Blue-Point®)



**BLPHSSC30**

**BLPHSSC30 30 pc  
Combination Drive Hex  
Bit Socket Driver Set  
(Blue-Point®)**

### BLPHSSC30 Set (30 pc)

|             | Stock No. | Size | Square Drive, inches |          | Stock No. | Size   | Square Drive, inches |
|-------------|-----------|------|----------------------|----------|-----------|--------|----------------------|
| Hex, inches | BLPH1418  | 1/8  | 1/4                  | Hex, mm  | BLPH1425  | 2.5 mm | 1/4                  |
|             | BLPH14964 | 9/64 | 1/4                  |          | BLPH386   | 6 mm   | 3/8                  |
|             | BLPH14532 | 5/32 | 1/4                  |          | BLPH387   | 7 mm   | 3/8                  |
|             | BLPH14316 | 3/16 | 1/4                  |          | BLPH388   | 8 mm   | 3/8                  |
|             | BLPH14732 | 7/32 | 1/4                  |          | BLPH389   | 9 mm   | 3/8                  |
|             | BLPH1414  | 1/4  | 1/4                  |          | BLPH3810  | 10 mm  | 3/8                  |
|             | BLPH38732 | 7/32 | 3/8                  |          | BLPH123   | 3 mm   | 1/4                  |
|             | BLPH3814  | 1/4  | 3/8                  |          | BLPH124   | 4 mm   | 1/4                  |
|             | BLPH38516 | 5/16 | 3/8                  |          | BLPH125   | 5 mm   | 1/4                  |
|             | BLPH3838  | 3/8  | 3/8                  |          | BLPH126   | 6 mm   | 1/4                  |
|             | BLPH12716 | 7/16 | 1/2                  |          | BLPH128   | 6 mm   | 1/4                  |
|             | BLPH1212  | 1/2  | 1/2                  |          | BLPH1210  | 10 mm  | 1/2                  |
|             | BLPH12916 | 9/16 | 1/2                  |          | BLPHM1212 | 12 mm  | 1/2                  |
|             | BLPH1258  | 5/8  | 1/2                  |          | BLPH1214  | 14 mm  | 1/2                  |
| BLPH1234    | 3/4       | 1/2  | BLPH1217             | 17 mm    | 1/2       |        |                      |
|             |           |      |                      | BLPH1219 | 19 mm     | 1/2    |                      |

### BLPTHC87 Set (87 pc)



**BLPTHC87**

**BLPTHC87 87 pc TORX®  
and Hex Bit Socket  
Driver Set (Blue-Point®)**

|                        | Stock No. | Size  | Square Drive, inches |                                 | Stock No.  | Size   | Square Drive, inches |
|------------------------|-----------|-------|----------------------|---------------------------------|------------|--------|----------------------|
| External TORX® Sockets | BLPTE144  | E4    | 1/4                  | Metric Hex Bit Sockets          | BLPH1425   | 2.5 mm | 1/4                  |
|                        | BLPTE145  | E5    | 1/4                  |                                 | BLPH123    | 3 mm   | 1/4                  |
|                        | BLPTE146  | E6    | 1/4                  |                                 | BLPH124    | 4 mm   | 1/4                  |
|                        | BLPTE147  | E7    | 1/4                  |                                 | BLPH125    | 5 mm   | 1/4                  |
|                        | BLPTE148  | E8    | 1/4                  |                                 | BLPH126    | 6 mm   | 1/4                  |
|                        | BLPTE3810 | E10   | 3/8                  |                                 | BLPH386    | 6 mm   | 3/8                  |
|                        | BLPTE3812 | E12   | 3/8                  |                                 | BLPH387    | 7 mm   | 3/8                  |
|                        | BLPTE3814 | E14   | 3/8                  |                                 | BLPH388    | 8 mm   | 3/8                  |
|                        | BLPTE3816 | E16   | 3/8                  |                                 | BLPH389    | 9 mm   | 3/8                  |
|                        | BLPTE3818 | E18   | —                    |                                 | BLPH3810   | 10 mm  | 3/8                  |
|                        | BLPTE1220 | E20   | 1/2                  |                                 | BLPH1210   | 10 mm  | 1/2                  |
|                        | BLPTE1222 | E22   | 1/2                  |                                 | BLPHM1212  | 12 mm  | 12                   |
|                        | BLPTE1224 | E24   | 1/2                  |                                 | BLPH1214   | 14 mm  | 1/2                  |
|                        |           |       |                      |                                 | BLPH1217   | 17 mm  | 1/2                  |
| TORX® Bit Sockets      | BLPT146   | T6    | 1/4                  | BLPH1219                        | 19 mm      | 1/2    |                      |
|                        | BLPT147   | T7    | 1/4                  | Long Metric Hex Bit Sockets     | BLPHL144   | 4 mm   | 1/4                  |
|                        | BLPT148   | T8    | 1/4                  |                                 | BLPHL145   | 5 mm   | 1/4                  |
|                        | BLPT149   | T9    | 1/4                  |                                 | BLPHL146   | 6 mm   | 1/4                  |
|                        | BLPT1410  | T10   | 1/4                  |                                 | BLPHL387   | 7 mm   | 3/8                  |
|                        | BLPT1415  | T15   | 1/4                  |                                 | BLPHL388   | 8 mm   | 3/8                  |
|                        | BLPT1420  | T20   | 1/4                  |                                 | BLPHL389   | 9 mm   | 3/8                  |
|                        | BLPT1425  | T25   | 1/4                  | BLPHL3810                       | 10 mm      | 3/8    |                      |
|                        | BLPT1427  | T27   | 1/4                  | Fractional Hex Bit Sockets      | BLPH1418   | 1/8    | 1/4                  |
|                        | BLPT1430  | T30   | 1/4                  |                                 | BLPH14964  | 9/64   | 1/4                  |
|                        | BLPT3840  | T40   | 3/8                  |                                 | BLPH14532  | 5/32   | 1/4                  |
|                        | BLPT3845  | T45   | 3/8                  |                                 | BLPH14316  | 3/16   | 1/4                  |
|                        | BLPT3850  | T50   | 3/8                  |                                 | BLPH14732  | 7/32   | 1/4                  |
|                        | BLPT1255  | 2-3/4 | T55                  |                                 | BLPH1414   | 1/4    | 1/4                  |
| BLPT1260               | 2-3/4     | T60   | BLPH38732            | 7/32                            | 3/8        |        |                      |
| Long TORX® Bit Sockets | BLPTL146  | T6    | 1/4                  | BLPH3814                        | 1/4        | 3/8    |                      |
|                        | BLPTL147  | T7    | 1/4                  | BLPH38516                       | 5/16       | 3/8    |                      |
|                        | BLPTL148  | T8    | 1/4                  | BLPH3838                        | 3/8        | 3/8    |                      |
|                        | BLPTL149  | T9    | 1/4                  | BLPH12716                       | 7/16       | 1/2    |                      |
|                        | BLPTL1410 | T10   | 1/4                  | BLPH1212                        | 1/2        | 1/2    |                      |
|                        | BLPTL1415 | T15   | 1/4                  | BLPH12916                       | 9/16       | 1/2    |                      |
|                        | BLPTL1420 | T20   | 1/4                  | BLPH1258                        | 5/8        | 1/2    |                      |
|                        | BLPTL1425 | T25   | 1/4                  | BLPH1234                        | 3/4        | 1/2    |                      |
|                        | BLPTL1427 | T27   | 1/4                  | Long Fractional Hex Bit Sockets | BLPHL1418  | 1/8    | 1/4                  |
|                        | BLPTL1430 | T30   | 1/4                  |                                 | BLPHL14532 | 5/32   | 1/4                  |
|                        | BLPTL3840 | T40   | 3/8                  |                                 | BLPHL14316 | 3/16   | 1/4                  |
|                        | BLPTL3845 | T45   | 3/8                  |                                 | BLPHL38732 | 7/32   | 3/8                  |
|                        | BLPTL3850 | T50   | 3/8                  |                                 | BLPHL3814  | 1/4    | 3/8                  |
|                        | BLPTL1255 | T55   | 1/2                  |                                 | BLPHL38516 | 5/16   | 3/8                  |
| BLPTL1260              | T60       | 1/2   | BLPHL3838            | 3/8                             | —          |        |                      |



BLPPTEXT3



BLPPTA3438



BLPPTSM10



BPRFPT10



BLPPTSS3822

## Pass-Thru Socket Set (Blue-Point®)

| Stock No.  | External Hex, inches | Length, inches | Size   |
|------------|----------------------|----------------|--------|
| BLPPTSM8   | 3/4                  | 1-7/16         | 8 mm   |
| BLPPTSM9   | 3/4                  | 1-7/16         | 9 mm   |
| BLPPTSM10  | 3/4                  | 1-7/16         | 10 mm  |
| BLPPTSM11  | 3/4                  | 1-7/16         | 11 mm  |
| BLPPTSM12  | 3/4                  | 1-7/16         | 12 mm  |
| BLPPTSM13  | 3/4                  | 1-7/16         | 13 mm  |
| BLPPTSM14  | 3/4                  | 1-7/16         | 14 mm  |
| BLPPTSM15  | 3/4                  | 1-7/16         | 15 mm  |
| BLPPTSM16  | 3/4                  | 1-7/16         | 16 mm  |
| BLPPTSM17  | 3/4                  | 1-7/16         | 17 mm  |
| BLPPTSM18  | 3/4                  | 1-7/16         | 18 mm  |
| BLPPTSM19  | 3/4                  | 1-7/16         | 19 mm  |
| BLPPTS38   | 3/4                  | 1-7/16         | 3/8    |
| BLPPTS716  | 3/4                  | 1-7/16         | 7/16"  |
| BLPPTS12   | 3/4                  | 1-7/16         | 1/2"   |
| BLPPTS916  | 3/4                  | 1-7/16         | 9/16"  |
| BLPPTS58   | 3/4                  | 1-7/16         | 5/8"   |
| BLPPTS1116 | 3/4                  | 1-7/16         | 11/16" |
| BLPPTS34   | 3/4                  | 1-7/16         | 3/4"   |

### BLPPTSS3822 22 pc 3/8" Drive Pass-Thru Socket Set (Blue-Point®)

- Includes BLPPTS38–BLPPTS34 (3/8–3/4") SAE Sockets, BLPPTSM8–BLPPTSM19 (8–19 mm) Metric Sockets, BLPPTA3438 Square Drive Adaptor, BLPPTEXT3 Extension and BPRFPT10 Ratchet (22 pc) in a storage case

### BPRFPT10 3/8" Drive 10" Pass-Thru Flex Ratchet (Blue-Point®)

- Flex-head has seven locking positions
- 3/4" hex drive
- 10" long

### BLPPTEXT3 3/8" Drive 3" Pass-Thru Socket Extension (Blue-Point®)

- 3" extension

### BLPPTA3438 3/8" Drive Square Drive Adaptor (Blue-Point®)

- 3/8" square drive adaptor
- 1-1/4" long

## General Service Sets

- Great for use at home or on the road
- Sets offer full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Ratchet and Handle Driver both available for a variety of jobs
- Compact case fits in shallow Snap-on® tool box drawer

### BLPGSSC100B 100 pc 3/8" Drive SAE/Metric General Service Set (Blue-Point®)

- Set covers most popular sizes of wrenches and sockets
- Tools have been newly designed and meet Snap-on® tool standards of quality
- High-quality chrome plating looks great and provides a durable, easy-to-clean finish
- Durable blow-molded case
- Removable foam divider doubles as a kneeling pad
- Lifetime warranty
- Set includes (23) SAE and Metric 1/4" Drive Standard Depth Sockets, (32) SAE and Metric 3/8" Drive Sockets, (11) External TORX® Sockets, (19) SAE and Metric Combination Wrenches, (7) 1/4" Drive and (8) 3/8" Drive accessories



BLPGSSC100B



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## GENERAL SERVICE SETS (Blue-Point®)



BLPGSS3837

### BLPGSS3837 37 pc 3/8" Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (8) SAE (5/16–3/4") and (14) Metric (6–19 mm) Standard 6-point Sockets, (4) SAE (5/16–3/8", 7/16–1/2", 9/16–5/8" and 11/16–3/4") (5) Metric (10–11 mm, 12–13 mm, 14–15 mm, 16–17 mm and 18–19 mm) Double Open End Wrenches, (2) Extensions (3 and 6"), Ratchet, Universal Joint and (2) Adaptors (1/4" Female x 3/8" Male and 3/8" Female x 1/4" Male)
- Includes storage case



BLPGSS3849

### BLPGSS3849 49 pc 3/8" Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (8) SAE (5/16–3/4") 14 Metric (6–19 mm) Standard 6-point Sockets, (8) SAE (5/16–3/4") (13) Metric (7–19 mm) Deep 12-point Sockets, (2) Extensions (3 and 6"), Universal Joint, 3/8–1/4" Adaptor, 1/4–3/8" Adaptor and Ratchet
- Includes storage case



BLPGSS3885

### BLPGSS3885 85 pc 3/8" Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (13) SAE Sockets (1/4–1") and (14) Metric Sockets (6–19 mm), (13) SAE (1/4–1") and (14) Metric (6–19 mm) Deep Sockets, (11) Sockets (E4–E20), (1) PHILLIPS® Socket Driver (#3), (2) Pozidriv® Socket Drivers (#3 and #4), (8) Tamper-Resistant TORX® Socket Drivers (T10–T45), (2) Spark Plug Sockets (5/8 and 13/16"), (6) ratchet/socket accessories and (1) Ratchet in a storage case (BLPGSS3885PB)



BLPGSSCT70B

### BLPGSSCT70B 70 pc 3/8" Drive SAE/Metric General Service Set (Blue-Point®)

- Set covers most popular sizes of wrenches and sockets
- Wrenches have longer handles, providing additional leverage
- Set includes pliers that now feature a slim-line comfort grip
- Tools have been newly designed and meet Snap-on® tool standards of quality
- High-quality chrome plating looks great and provides a durable, easy-to-clean finish
- Includes (27) SAE and Metric 3/8" Standard-Depth Sockets, (19) SAE and Metric chrome plated Wrenches, Ratchet, Spinner Handle and (3) Extensions, (13) assorted Square, Hex, Slotted and PHILLIPS® Bits, (3) pair of pliers: 6" Diagonal Cutting, 8" Long Nose and 10" Groove Joint Pliers, (2) Spark Plug Sockets
- Includes a durable blow-molded case

# 1/2" DRIVE TOOLS

OUR 1/2" DRIVE TOOLS EXCEL IN ALMOST ANY APPLICATION, THANKS TO UNMATCHED VERSATILITY, DEPENDABILITY AND DURABILITY. WHICH ALLOWS YOU TO EXCEL AT ANY TASK TOO.

## THE WIDEST RANGE, THE STRICTEST STANDARDS.

Our 1/2" drive tools are made from cold-formed alloy steel and put through rigorous testing under extreme conditions. And their performance is as impressive as their endurance, thanks to our Dual 80<sup>®</sup> Technology that provides dual pawls and an 80-tooth gear for more ratcheting power in less lateral space. Flank Drive<sup>®</sup> for greater turning power and less slippage. And grooved detents for stronger ratchet attachment and easier engagement in any position.

# RATCHETS

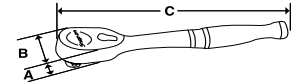


## Dual 80® Technology, Chrome (1/2")

Stop, Turn and Listen. A smoother, stronger ratchet. Try them to believe them.

### Dual 80® Technology Ratchets Feature:

- 80-tooth gear
- Seven teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



| Stock No.     | Description                                    | Gear Teeth | Swing Arc | A   | B     | C        | Repair Kit |
|---------------|--|------------|-----------|-----|-------|----------|------------|
| S80A          | Standard Handle Ratchet                        | 80         | 4.5       | 3/4 | 1-5/8 | 10-5/16  | RKRS80A    |
| GS80A         | Standard Handle Industrial Ratchet             | 80         | 4.5       | 3/4 | 1-5/8 | 10-5/16  | RKRS80A    |
| SL80A         | Long Handle Ratchet                            | 80         | 4.5       | 3/4 | 1-5/8 | 15       | RKRS80A    |
| SLL80A        | Extra-Long Handle Ratchet                      | 80         | 4.5       | 3/4 | 1-5/8 | 23-3/16  | RKRS80A    |
| GSL80A †      | Standard Long Handle Industrial Ratchet        | 80         | 4.5       | 3/4 | 1-5/8 | 15       | RKRS80A    |
| SKF80A ††     | Stubby Handle Flex Head Ratchet                | 80         | 4.5       | 3/4 | 1-5/8 | 7-1/2    | RKRS80A    |
| SF80A         | Standard Handle Flex Head Ratchet              | 80         | 4.5       | 3/4 | 1-5/8 | 17-11/18 | RKRS80A    |
| SLF80A        | Long Handle Flex Head Ratchet                  | 80         | 4.5       | 3/4 | 1-5/8 | 24-13/16 | RKRS80A    |
| SBF80A        | Standard Bent Handle Flex Head Ratchet         | 80         | 4.5       | 3/4 | 1-5/8 | 16-1/2   | RKRS80A    |
| SX80B         | Standard Handle Locking Flex Head Ratchet      | 80         | 4.5       | 3/4 | 1-5/8 | 17-5/8   | RKRS80A    |
| SLX80A        | Long Handle Locking Flex Head Ratchet          | 80         | 4.5       | 3/4 | 1-5/8 | 24-13/16 | RKRS80A    |
| SH80A ††      | Red Soft Grip Handle Ratchet                   | 80         | 4.5       | 3/4 | 1-5/8 | 12       | RKRS80A    |
| SHL80A ††     | Red Soft Grip Long Handle Ratchet              | 80         | 4.5       | 3/4 | 1-5/8 | 16-3/4   | RKRS80A    |
| SHLL80A ††    | Red Soft Grip Extra Long Handle Ratchet        | 80         | 4.5       | 3/4 | 1-5/8 | 24-7/8   | RKRS80A    |
| SHF80A ††     | Red Soft Grip Handle Flex Head Ratchet         | 80         | 4.5       | 3/4 | 1-5/8 | 17-5/8   | RKRS80A    |
| SHLF80A ††    | Soft Grip Long Handle Flex Head Ratchet        | 80         | 4.5       | 3/4 | 1-5/8 | 25-5/8   | RKRS80A    |
| SHX80B †† ††  | Red Soft Grip Handle Locking Flex Head Ratchet | 80         | 4.5       | 3/4 | 1-5/8 | 18-1/2   | RKRS80A    |
| SHLX80A †† †† | Red Soft Grip Handle Locking Flex Head Ratchet | 80         | 4.5       | 3/4 | 1-5/8 | 25-3/4   | RKRS80A    |

ASME®/ANSI® B107.10

SH936-12 Soft Grip Replacement Handle.

\*Uses RKRSX936JT Flex Joint Repair Kit

\*\*Uses RKRSX80AJT Flex Joint Repair Kit and RKRSX80ALM Locking Mechanism Repair Kit

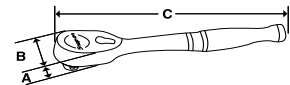
†ASME®/ANSI® B107.10 with exception of the length

### Colors Available



†† 0 G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**Quick-Release Ratchet (1/2")**

**1/2" Drive Dual 80® Technology Quick-Release Ratchet Repair Kit**

• For SR80A, SHR80A and SHRLF80A Dual 80® Technology Quick-Release Ratchets

| Stock No.   | Description   | Gear Teeth | Swing Arc | A   | B     | C       | Repair Kit |
|-------------|---|------------|-----------|-----|-------|---------|------------|
| SR80A       | Standard Handle Quick-Release                             | 80         | 4.5       | 3/4 | 1-5/8 | 10-5/16 | RKRSR80A   |
| SRL80A *    | Standard Long Handle Quick-Release Ratchet                | 80         | 4.5       | 3/4 | 1-5/8 | 15      | RKRSR80A   |
| SHR80A      | Soft Grip Handle Quick-Release Ratchet                    | 80         | 4.5       | 3/4 | 1-5/8 | 12      | RKRSR80A   |
| SHRLF80A †* | Soft Grip Long Handle Quick-Release Flex Head             | 80         | 4.5       | 3/4 | 1-5/8 | 25-5/8  | RKRSR80A   |
| SRX80B      | Standard Handle Quick-Release Locking Flex Head           | 80         | 4.5       | 3/4 | 1-5/8 | 17-5/8  | RKRSR80A   |
| SHRX80B†    | Standard Soft Grip Handle Quick-Release Locking Flex Head | 80         | 4.5       | 3/4 | 1-5/8 | 18-1/2  | RKRSR80A   |

† Uses RKRSX936JT Flex Joint Repair Kit  
SH936-12 Soft Grip Replacement Handle.  
ASME®/ANSI® B107.10

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**S80AFOD**



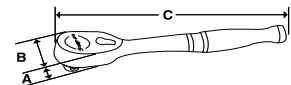
**GS80AFOD**



**GSL80AFOD**

**FOD Ratchets (Foreign Object Damage) (1/2")**

- Dual pawls and an 80 tooth gear provide more power in less lateral space
- Seven teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head helps keep dirt and other contaminants out of the head mechanism
- Meets FOD and FME program conformance
- Designed to have the lowest profile and work with the shortest swing arc, providing better access to restricted areas
- FOD ratchets are designed to help prevent foreign object damage in sensitive work environments
- Cover plate and reverse lever are permanently affixed to ratchet head with rivets to prevent possible sources of debris



| Stock No. | Description  | Gear Teeth | Swing Arc | A   | B     | C       |
|-----------|--|------------|-----------|-----|-------|---------|
| S80AFOD   | Foreign Object Damage Handle Ratchet                 | 80         | 4.5       | 3/4 | 1-5/8 | 10-5/16 |
| GS80AFOD  | Foreign Object Damage Industrial Handle Ratchet      | 80         | 4.5       | 3/4 | 1-5/8 | 10-5/16 |
| GSL80AFOD | Foreign Object Damage Industrial Long Handle Ratchet | 80         | 4.5       | 3/4 | 1-5/8 | 15      |

ASME®/ANSI® B107.10



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

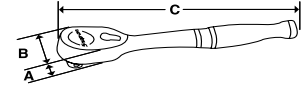
## RATCHETS



SA936A



GSP936



### Scaffold Ratchets (1/2")

| Stock No. | Description      | Gear Teeth | Swing Arc | A      | B     | C       | Repair Kit  |
|-----------|------------------|------------|-----------|--------|-------|---------|-------------|
| SA936A    | Scaffold Ratchet | 36         | 10        | 4-3/16 | 1-5/8 | 10-5/16 | RKRSA936    |
| GSP936    | Spud Ratchet     | 36         | 10        | 3/4    | 1-5/8 | 15-5/8  | RKRGSP936-1 |

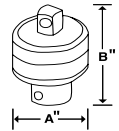
ASME®/ANSI® B107.10

#### GSP936 1/2" Drive Spud Ratchet

- The “spud” ratchet is ideal for lining up holes in scaffolding and other construction jobs
- A long reverse lever provides easy reversing while wearing heavy work gloves
- Locking button retention
- Taper diameter is 3/16–7/8"
- Taper length is 8"



S77A



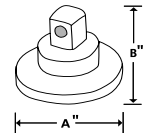
### Ratchet Adaptor, Chrome (1/2")

| Stock No. | Description     | Gear Teeth | Swing Arc | A     | B | C | Repair Kit |
|-----------|-----------------|------------|-----------|-------|---|---|------------|
| S77A      | Ratchet Adaptor | 20         | 18        | 1-5/8 | 3 | 3 | RKRS77     |

ASME®/ANSI® B107.10



LRS70A



### Ratchet Spinner (1/2")

| Stock No. | Description                | A     | B     |
|-----------|----------------------------|-------|-------|
| LRS70A    | 1/2" Drive Ratchet Spinner | 1-3/4 | 1-5/8 |

ASME®/ANSI® B107.10

## BREAKER BARS



SN15B



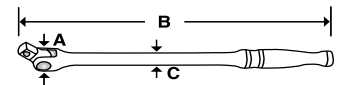
GSN18B



SN24C



SN18B



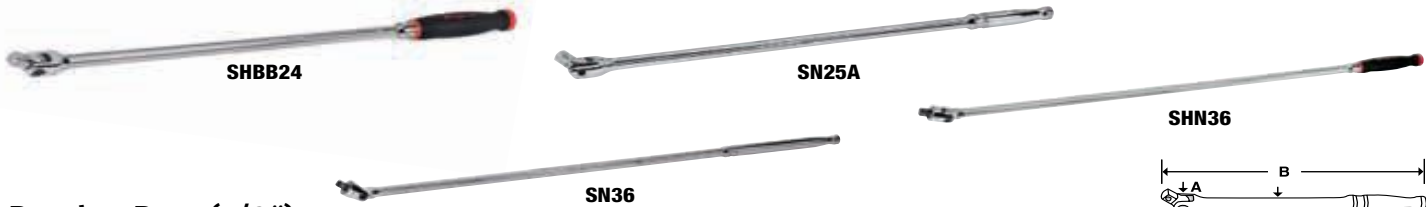
### Breaker Bars (1/2")

| Stock No. | Description  | A     | B  | C     | Repair Kit |
|-----------|--|-------|----|-------|------------|
| SN15B     | 1/2" Drive 15" Standard Handle Breaker Bar                   | 1-1/8 | 15 | 11/16 | RKBB3      |
| GSN18B    | 1/2" Drive 18" Standard Handle Industrial Finish Breaker Bar | 1-1/8 | 18 | 11/16 | RKBB3      |
| SN18B     | 1/2" Drive 18" Standard Handle Breaker Bar                   | 1-1/8 | 18 | 11/16 | RKBB3      |
| SN24C     | 1/2" Drive 24" Standard Handle Breaker Bar                   | 1-1/8 | 24 | 11/16 | RKBB3      |

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# BREAKER BARS

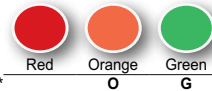


## Breaker Bars (1/2")

| Stock No. | Description                                  | A     | B      | C     | Repair Kit |
|-----------|--|-------|--------|-------|------------|
| SHBB24*   | 1/2" Drive 24" Soft Grip Handle Breaker Bar  | 1-1/8 | 24     | 11/16 | RKBB3      |
| SN25A     | 1/2" Drive 24" 45° Offset Square Breaker Bar | 1-1/8 | 24     | 11/16 | RKBB5      |
| SN36      | 1/2" Drive 36" Standard Handle Breaker Bar   | 1-1/4 | —      | 3/4   | RKBB4      |
| SHN36     | 1/2" Drive 36" Soft Grip Handle Breaker Bar  | 1-1/4 | 36-5/8 | 3/4   | RKBB4      |

ASME®/ANSI® B107.10  
SH936-12 Soft Grip Replacement Handle.

### Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

# DRIVE HANDLES



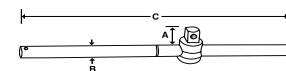
## Speeders, Chrome

| Stock No. | A   | B       | C      | D      |
|-----------|-----|---------|--------|--------|
| S4        | 1/2 | 7       | 4-3/8  | 18-7/8 |
| SN4B*     | 5/8 | 6-3/8   | 3      | 17-1/4 |
| SL4       | 1/2 | 7-3/8   | 4-7/16 | 19-1/8 |
| N8323     | 1/2 | 18-1/16 | 8-1/2  | 32-7/8 |

ASME®/ANSI® B107.10  
\*Uses RKBB3 Repair Kit

### SL4 1/2" Drive 19-1/8" Locking Speeder Drive Handle

- Sliding collar and locking pin for better socket retention



## Sliding T-Handle, Chrome

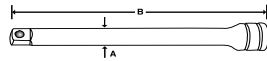
| Stock No. | A       | B   | C  |
|-----------|---------|-----|----|
| S12L      | 1-11/16 | 5/8 | 12 |

ASME®/ANSI® B107.10



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## EXTENSIONS



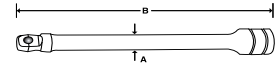
### Knurled Extensions

Set Contains: 305ASX

| Stock No. | Industrial Stock No. | A   | B     |   |
|-----------|----------------------|-----|-------|---|
| SX2       | —                    | 5/8 | 2-1/8 | • |
| SXK3      | GSXK3                | 5/8 | 3-1/2 | • |
| SXK5      | GSXK5                | 5/8 | 5     | • |
| SXK8      | —                    | 5/8 | 8     | • |
| SXK10     | —                    | 5/8 | 10    |   |
| SXK11     | GSXK11               | 5/8 | 11    | • |
| SX15      | —                    | 5/8 | 15    |   |
| SX20      | —                    | 5/8 | 20    |   |
| SX24      | —                    | 5/8 | 24    |   |
| SX36      | —                    | 5/8 | 36    |   |

ASME®/ANSI® B107.10M

Set includes storage tray.



### Extensions/Wobble

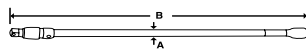
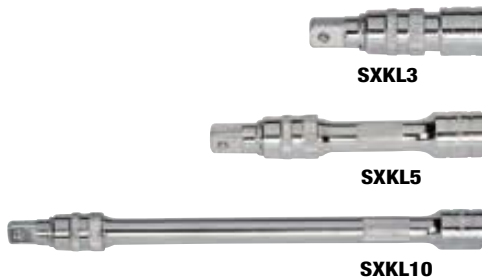
- Provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

Set Contains: 305ASXW

| Stock No. | Industrial Stock No. | A   | B     |   |
|-----------|----------------------|-----|-------|---|
| SXW2*     | GSXW2                | 5/8 | 2     | • |
| SXWK3     | —                    | 5/8 | 3-1/2 | • |
| SXWK5     | —                    | 5/8 | 5     | • |
| SXWK8     | —                    | 5/8 | 8     | • |
| SXWK11    | GSXWK11              | 5/8 | 11    | • |

\*Not knurled  
ASME®/ANSI® B107.10

Set includes storage tray.



### Quick-Release Locking Extensions

| Stock No. | A     | B  |
|-----------|-------|----|
| SXKL3     | 21/32 | 3  |
| SXKL5     | 21/32 | 5  |
| SXKL10    | 21/32 | 10 |

SXKLP Locking Pins (5pk)  
SXKLRK FXKL Series Repair Kit



### Extensions / Wobble Plus, Chrome

- Provides 16° of additional accessibility
- Usable in wobble and rigid functionality
- Knurled shanks for easy fingertip turning

Set Contains: 305SXWP

| Stock No. | A   | B  |   |
|-----------|-----|----|---|
| SXWP2*    | 5/8 | 2  | • |
| SXWP3     | 5/8 | 3  | • |
| SXWP5     | 5/8 | 5  | • |
| SXWP8     | 5/8 | 8  | • |
| SXWP11    | 5/8 | 11 | • |

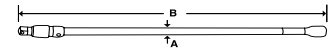
\*Not knurled  
ASME®/ANSI® B107.10

Set includes storage tray.

## EXTENSIONS

### Extensions/Locking Wobble, Chrome

- Provides 16° of additional accessibility
- Quick-release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one-hand operation, even with slippery hands



Set Contains:

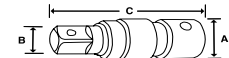
| Stock No. | A     | B |   |
|-----------|-------|---|---|
| SXWKL3    | 21/32 | 3 | • |
| SXWKL5    | 21/32 | 5 | • |
| SXWKL8    | 21/32 | 8 | • |

Set includes storage tray.

### Locking Adaptor, Industrial



GALX3



| Stock No. | A   | B   | C     |
|-----------|-----|-----|-------|
| GALX3     | 1/2 | 1/2 | 3-1/8 |

ASME®/ANSI® B107.10

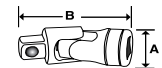
## SOCKET/RATCHET ACCESSORIES



S8

GU8

103UFTS



### Universal Joints

| Stock No. | Industrial Stock No. | A     | B       |
|-----------|----------------------|-------|---------|
| S8        | GU8                  | 15/16 | 2-11/16 |

ASME®/ANSI® B107.10

Includes storage tray.

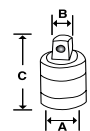
### 103UFTS 3 pc Combination Drive Universal Joint Set

- Includes (1) 1/4" Drive Universal Joint, (1) 3/8" Drive Universal Joint and (1) 1/2" Drive Universal Joint in storage tray



A2A

GSAF1F



### Square Drive Adaptors, Industrial (1/2")

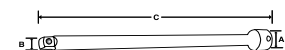
| Stock No. | A   | B   | C       | Repair Bit |
|-----------|-----|-----|---------|------------|
| A2A       | 3/8 | 1/2 | 1-5/16  | —          |
| GSAF1F    | 1/2 | 3/8 | 1-13/16 | —          |
| GAF2A     | 3/8 | 1/2 | 1-5/16  | —          |
| GLA12B    | 1/2 | 3/4 | 1-1/8   | —          |
| GLAS1F    | 3/4 | 1/2 | 1-7/16  | GLAS1F2    |

ASME®/ANSI® B107.10

### Extension Adaptors, Industrial



GAX12



| Stock No. | Retention Type | A   | B   | C      |
|-----------|----------------|-----|-----|--------|
| GAX5      | Ball Type      | 1/2 | 3/8 | 5      |
| GAX12     | Ball Type      | 1/2 | 3/8 | 12     |
| GAX24     | Ball Type      | 1/2 | 3/8 | 23-1/4 |
| GAX36     | Ball Type      | 1/2 | 3/8 | 36     |

ASME®/ANSI® B107.10



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

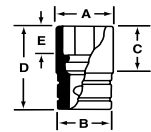
# FLANK DRIVE® SOCKETS



SW241



313SWYA



## Shallow, inches

| mm     | 6      | 12     | 6       | 12      | A       | B       | C       | D       | E      | Set Contains: |          |         |
|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|---------------|----------|---------|
|        |        |        |         |         |         |         |         |         |        | 313TWYA       | 314GTWYA | 313SWYA |
| 3/8    | TW121A | SW121A | GTW121A | GSW121A | 19/32   | 29/32   | 7/8     | 1-1/2   | 5/16   | •             | •        | •       |
| 7/16   | TW141A | SW141A | GTW141A | GSW141A | 11/16   | 29/32   | 7/8     | 1-1/2   | 11/32  | •             | •        | •       |
| 1/2    | TW161A | SW161A | GTW161A | GSW161A | 3/4     | 29/32   | 7/8     | 1-1/2   | 13/32  | •             | •        | •       |
| 9/16   | TW181A | SW181A | GTW181A | GSW181A | 13/16   | 29/32   | 7/8     | 1-1/2   | 13/32  | •             | •        | •       |
| 5/8    | TW201  | SW201  | GTW201  | GSW201  | 15/16   | 7/8     | 7/8     | 1-1/2   | 15/32  | •             | •        | •       |
| 11/16  | TW221  | SW221  | GTW221  | GSW221  | 31/32   | 29/32   | 7/8     | 1-1/2   | 1/2    | •             | •        | •       |
| 3/4    | TW241  | SW241  | GTW241  | GSW241  | 1-1/32  | 31/32   | 7/8     | 1-1/2   | 9/16   | •             | •        | •       |
| 13/16  | TW261  | SW261  | GTW261  | GSW261  | 1-1/8   | 1-1/16  | 7/8     | 1-1/2   | 9/16   | •             | •        | •       |
| 7/8    | TW281  | SW281  | GTW281  | GSW281  | 1-3/16  | 1-1/8   | 7/8     | 1-1/2   | 25/32  | •             | •        | •       |
| 15/16  | TW301  | SW301  | GTW301  | GSW301  | 1-9/32  | 1-7/32  | 27/32   | 1-17/32 | 3/4    | •             | •        | •       |
| 1      | TW321  | SW321  | GTW321  | GSW321  | 1-11/32 | 1-9/32  | 7/8     | 1-9/16  | 3/4    | •             | •        | •       |
| 1-1/16 | —      | SW341  | GTW341  | GSW341  | 1-7/16  | 1-3/8   | 1-1/16  | 1-11/16 | 3/4    | •             | •        | •       |
| 1-1/8  | TW361  | SW361  | GTW361  | GSW361  | 1-1/2   | 1-7/16  | 1-31/32 | 1-3/4   | 1-3/16 | •             | •        | •       |
| 1-3/16 | TW381  | SW381  | —       | GSW381  | 1-5/8   | 1-9/16  | 1-1/8   | 1-3/4   | 3/4    |               |          |         |
| 1-1/4  | TW401  | SW401  | GTW401  | GSW401  | 1-11/16 | 1-5/8   | 1-1/4   | 1-7/8   | 3/4    |               | •        |         |
| 1-5/16 | TW421  | SW421  | —       | —       | 1-3/4   | 1-11/16 | 1-1/4   | 1-7/8   | 1      |               |          |         |
| 1-3/8  | TW441  | SW441  | —       | —       | 1-13/16 | 1-3/4   | 1-7/16  | 2-1/16  | 1      |               |          |         |
| 1-7/16 | TW461  | SW461  | —       | —       | 1-15/16 | 1-7/8   | 1-5/8   | 2-1/4   | 1      |               |          |         |
| 1-1/2  | TW481  | SW481  | —       | —       | 2       | 1-15/16 | 1-5/8   | 2-1/4   | 1      |               |          |         |

Sets shown include storage tray.



SWM241



310TWMYA

## Shallow, mm, Chrome

| mm | 6      | 12      | A    | B    | C    | D    | E    | Set Contains: |          |         |          |         |
|----|--------|---------|------|------|------|------|------|---------------|----------|---------|----------|---------|
|    |        |         |      |      |      |      |      | 310TWMYA      | 313TWMYA | 323TWM* | 313SWMYA | 323SWM* |
| 10 | TWM10A | SWM101A | 15.0 | 23.2 | 22.2 | 38.1 | 7.9  | •             |          | •       | •        | •       |
| 11 | TWM11A | SWM111A | 16.6 | 23.2 | 22.2 | 38.1 | 8.7  | •             |          | •       | •        | •       |
| 12 | TWM12A | SWM121A | 18.2 | 23.2 | 22.2 | 38.1 | 9.5  | •             | •        | •       | •        | •       |
| 13 | TWM13A | SWM131A | 19.0 | 23.2 | 22.2 | 38.1 | 10.3 | •             | •        | •       | •        | •       |
| 14 | TWM14A | SWM141A | 20.6 | 23.2 | 22.2 | 38.1 | 10.3 | •             | •        | •       | •        | •       |
| 15 | TWM15A | SWM151A | 22.2 | 22.2 | 22.2 | 38.1 | 10.3 | •             | •        | •       | •        | •       |
| 16 | TWM16  | SWM161  | 23.8 | 22.2 | 22.2 | 38.1 | 11.9 | •             | •        | •       | •        | •       |
| 17 | TWM17  | SWM171  | 24.6 | 23.2 | 22.2 | 38.1 | 12.7 | •             | •        | •       | •        | •       |
| 18 | TWM18  | SWM181  | 25.4 | 23.8 | 21.4 | 38.1 | 14.2 | •             | •        | •       | •        | •       |
| 19 | TWM19  | SWM191  | 26.3 | 24.8 | 21.3 | 38.1 | 13.9 | •             | •        | •       | •        | •       |
| 20 | TWM20  | SWM201  | 26.7 | 26.1 | 21.2 | 38.1 | 14.0 |               | •        | •       | •        | •       |
| 21 | TWM21  | SWM211  | 28.3 | 27.5 | 21.1 | 38.1 | 14.0 |               | •        | •       | •        | •       |
| 22 | TWM22  | SWM221  | 29.9 | 28.6 | 20.9 | 38.1 | 14.2 |               | •        | •       | •        | •       |
| 23 | TWM23  | SWM231  | 31.2 | 29.9 | 20.8 | 38.1 | 14.5 |               | •        | •       | •        | •       |
| 24 | TWM24  | SWM241  | 32.5 | 30.9 | 22.2 | 38.8 | 15.8 |               | •        | •       | •        | •       |
| 25 | TWM25  | SWM251  | 33.3 | 31.7 | 22.2 | 38.8 | 15.8 |               |          | •       | •        | •       |
| 26 | TWM26  | SWM261  | 34.9 | 33.3 | 23.8 | 41.2 | 15.8 |               |          | •       | •        | •       |
| 27 | TWM27  | SWM271  | 36.5 | 34.9 | 25.4 | 42.8 | 17.4 |               |          | •       | •        | •       |
| 28 | TWM28  | SWM281  | 38.1 | 36.5 | 26.9 | 44.4 | 17.4 |               |          | •       | •        | •       |
| 29 | TWM29  | SWM291  | 39.3 | 38.0 | 26.1 | 44.5 | 17.8 |               |          | •       | •        | •       |
| 30 | TWM30  | SWM301  | 41.0 | 39.6 | 26.1 | 44.5 | 18.5 |               |          | •       | •        | •       |
| 31 | TWM31  | SWM311  | 42.5 | 41.2 | 29.1 | 47.6 | 19.1 |               |          | •       | •        | •       |
| 32 | TWM32  | SWM321  | 42.5 | 41.2 | 28.9 | 47.6 | 19.8 |               |          | •       | •        | •       |

Sets shown include storage tray unless noted.\*

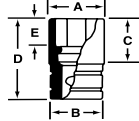
# FLANK DRIVE® SOCKETS

1/2" DRIVE TOOLS



TSM20

313SMYA



## Deep, mm, Chrome

| mm | Set Contains: |       |      |      |      |      |      | 313TSMYA | 310TSM | 313SMYA |
|----|---------------|-------|------|------|------|------|------|----------|--------|---------|
|    | 6             | 12    | A    | B    | C    | D    | E    | 6        | 6      | 12      |
| 10 | TSM10A        | SM10A | 15.0 | 23.2 | 66.7 | 82.6 | 7.9  |          | •      |         |
| 11 | TSM11         | SM11A | 16.6 | 23.2 | 66.7 | 82.6 | 8.7  |          |        |         |
| 12 | TSM12A        | SM12B | 18.2 | 23.2 | 66.7 | 82.6 | 9.5  | •        | •      | •       |
| 13 | TSM13A        | SM13A | 19.0 | 23.2 | 66.7 | 82.6 | 10.3 | •        | •      | •       |
| 14 | TSM14A        | SM14A | 20.6 | 23.2 | 66.7 | 82.6 | 10.3 | •        | •      | •       |
| 15 | TSM15A        | SM15A | 22.2 | 22.2 | 66.7 | 82.6 | 10.3 | •        | •      | •       |
| 16 | TSM16         | SM16  | 23.8 | 22.2 | 51.0 | 82.6 | 11.9 | •        | •      | •       |
| 17 | TSM17         | SM17  | 24.6 | 23.2 | 51.0 | 82.6 | 12.7 | •        | •      | •       |
| 18 | TSM18         | SM18  | 25.4 | 23.8 | 51.0 | 82.6 | 14.3 | •        | •      | •       |
| 19 | TSM19         | SM19  | 26.3 | 24.6 | 52.5 | 82.6 | 14.2 | •        | •      | •       |
| 20 | TSM20         | SM20  | 26.7 | 26.1 | 58.5 | 82.6 | 14.0 | •        | •      | •       |
| 21 | TSM21         | SM21  | 28.3 | 27.5 | 58.5 | 82.6 | 14.0 | •        |        | •       |
| 22 | TSM22         | SM22  | 29.9 | 28.6 | 58.5 | 82.6 | 14.2 | •        |        | •       |
| 23 | TSM23         | SM23  | 31.2 | 29.9 | 58.0 | 82.6 | 14.5 | •        |        | •       |
| 24 | TSM24         | SM24  | 32.5 | 30.9 | 50.0 | 82.6 | 15.8 | •        |        | •       |
| 25 | TSM25         | SM25  | 33.3 | 31.7 | 50.0 | 82.6 | 15.8 |          |        |         |
| 26 | TSM26         | SM26  | 34.9 | 33.3 | 50.0 | 82.6 | 15.8 |          |        |         |
| 27 | TSM27         | SM27  | 36.2 | 34.9 | 50.0 | 82.6 | 17.5 |          |        |         |
| 28 | TSM28         | SM28  | 37.8 | 36.5 | 50.0 | 82.6 | 17.5 |          |        |         |
| 29 | TSM29         | SM29  | 39.3 | 38.0 | 64.3 | 82.6 | 17.8 |          |        |         |
| 30 | TSM30         | SM30  | 41.0 | 39.6 | 64.0 | 82.6 | 18.5 |          |        |         |
| 31 | TSM31         | SM31  | 42.5 | 41.2 | 64.0 | 82.6 | 19.1 |          |        |         |
| 32 | TSM32         | SM32  | 42.5 | 41.2 | 63.8 | 82.6 | 19.8 |          |        |         |

Sets shown include storage tray.

## Shallow/Deep Sets, mm, Chrome

### 320TSWMB 20 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow/Deep Socket Set

- Includes (20) Shallow and Deep Sockets (10–20 mm)



320TSWMB



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® SOCKETS



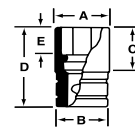
S241



GS201



313SYA



## Deep, inches

| Socket Size | Set Contains: |       |         |        |         |         |         |       |        |   |   |    |
|-------------|---------------|-------|---------|--------|---------|---------|---------|-------|--------|---|---|----|
|             | TS121A        | S121A | GTS121A | GS121A | A       | B       | C       | D     | E      | 6 | 6 | 12 |
| 3/8         | TS121A        | S121A | GTS121A | —      | 19/32   | 29/32   | 2-5/8   | 3-1/4 | 5/16   | • | • | •  |
| 7/16        | TS141A        | S141A | GTS141A | —      | 3/4     | 29/32   | 2-5/8   | 3-1/4 | 11/32  | • | • | •  |
| 1/2         | TS161A        | S161A | GTS161A | GS161A | 3/4     | 29/32   | 2-5/8   | 3-1/4 | 13/32  | • | • | •  |
| 9/16        | TS181A        | S181A | GTS181A | GS181A | 13/16   | 29/32   | 2-5/8   | 3-1/4 | 13/32  | • | • | •  |
| 5/8         | TS201         | S201  | GTS201  | GS201  | 15/16   | 7/8     | 1-31/32 | 3-1/4 | 15/32  | • | • | •  |
| 11/16       | TS221         | S221  | GTS221  | GS221  | 31/32   | 29/32   | 1-31/32 | 3-1/4 | 1/2    | • | • | •  |
| 3/4         | TS241         | S241  | GTS241  | GS241  | 1-1/32  | 31/32   | 2-5/8   | 3-1/4 | 9/16   | • | • | •  |
| 25/32       | —             | S251  | —       | —      | 1-1/16  | 1-1/32  | 2-1/8   | 3-1/4 | 5/8    |   |   |    |
| 13/16       | TS261         | S261  | GTS261  | GS261  | 1-1/8   | 1-1/16  | 2-5/8   | 3-1/4 | 9/16   | • | • | •  |
| 7/8         | TS281         | S281  | GTS281  | GS281  | 1-3/16  | 1-1/8   | 2-5/8   | 3-1/4 | 9/16   | • | • | •  |
| 15/16       | TS301         | S301  | GTS301  | GS301  | 1-9/32  | 1-7/32  | 1-31/32 | 3-1/4 | 3/4    | • | • | •  |
| 1           | TS321         | S321  | GTS321  | GS321  | 1-11/32 | 1-9/32  | 1-31/32 | 3-1/4 | 3/4    | • | • | •  |
| 1-1/16      | TS341         | S341  | GTS341  | GS341  | 1-7/16  | 1-3/8   | 1-31/32 | 3-1/4 | 3/4    | • | • | •  |
| 1-1/8       | TS361         | S361  | GTS361  | GS361  | 1-1/2   | 1-7/16  | 1-31/32 | 3-1/4 | 2-5/32 | • | • | •  |
| 1-3/16      | TS381         | S381  | GTS381  | GS381  | 1-5/8   | 1-9/16  | 2-5/8   | 3-1/4 | 1-3/16 |   |   |    |
| 1-1/4       | TS401         | S401  | GTS401  | GS401  | 1-11/16 | 1-5/8   | 2-5/8   | 3-1/4 | 1      |   |   |    |
| 1-5/16      | TS421         | S421  | —       | —      | 1-3/4   | 1-11/16 | 2-9/16  | 3-1/4 | 1      |   |   |    |
| 1-3/8       | TS441         | S441  | —       | —      | 1-13/16 | 1-3/4   | 2-9/16  | 3-1/4 | 1      |   |   |    |
| 1-7/16      | TS461         | S461  | —       | —      | 1-15/16 | 1-7/8   | 2-5/8   | 3-1/4 | 1      |   |   |    |
| 1-1/2       | TS481         | S481  | —       | —      | 2       | 1-15/16 | 2-5/8   | 3-1/4 | 1-1/16 |   |   |    |

ASME®/ANSI® B107.1

Sets shown include storage tray.





SDH201

## Semi-Deep, inches

| Socket Size | SDH121 | SDH141 | SDH161 | SDH181 | SDH201 | SDH221 | SDH241 | SDH251 | SDH261 | SDH281 | SDH301 | SDH321 | SDH341 | SDH361 | SDH381 | SDH401 | SDH421 |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3/8         | SDH121 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/16        |        | SDH141 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 1/2         |        |        | SDH161 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/16        |        |        |        | SDH181 |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/8         |        |        |        |        | SDH201 |        |        |        |        |        |        |        |        |        |        |        |        |
| 11/16       |        |        |        |        |        | SDH221 |        |        |        |        |        |        |        |        |        |        |        |
| 3/4         |        |        |        |        |        |        | SDH241 |        |        |        |        |        |        |        |        |        |        |
| 25/32       |        |        |        |        |        |        |        | SDH251 |        |        |        |        |        |        |        |        |        |
| 13/16       |        |        |        |        |        |        |        |        | SDH261 |        |        |        |        |        |        |        |        |
| 7/8         |        |        |        |        |        |        |        |        |        | SDH281 |        |        |        |        |        |        |        |
| 15/16       |        |        |        |        |        |        |        |        |        |        | SDH301 |        |        |        |        |        |        |
| 1           |        |        |        |        |        |        |        |        |        |        |        | SDH321 |        |        |        |        |        |
| 1-1/16      |        |        |        |        |        |        |        |        |        |        |        |        | SDH341 |        |        |        |        |
| 1-1/8       |        |        |        |        |        |        |        |        |        |        |        |        |        | SDH361 |        |        |        |
| 1-3/16      |        |        |        |        |        |        |        |        |        |        |        |        |        |        | SDH381 |        |        |
| 1-1/4       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | SDH401 |        |
| 1-5/16      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | SDH421 |

## Shallow Universal, Inches, Chrome

Set Contains: 307SUY

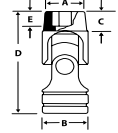
|  |  | A      | B      | C       | D       | E     |   |
|---|---|--------|--------|---------|---------|-------|---|
| 9/16  | SU18  | 27/32  | 15/16  | 1-19/64 | 27/32   | 15/16 | • |
| 5/8   | SU20  | 15/16  | 15/16  | 1-21/64 | 2-15/32 | 3/8   | • |
| 11/16   | SU22  | 1-1/16 | 1-1/16 | 1-15/32 | 2-9/16  | 7/16  | • |
| 3/4   | SU24  | 1-1/8  | 1-1/8  | 1-43/64 | 2-7/8   | 1/2   | • |
| 13/16   | SU26  | 1-3/16 | 1-1/8  | 1-3/4   | 2-15/16 | 9/16  | • |
| 7/8   | SU28  | 1-1/4  | 1-1/8  | 1-3/4   | 2-15/16 | 9/16  | • |
| 15/16   | SU30  | 1-5/16 | 1-1/8  | 1-13/16 | 3       | 9/16  | • |

ASME®/ANSI® B107.10M

Set includes storage tray.



SU24



## TORX® SOCKETS

### ★ TORX Plus® with Countersink

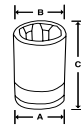
- SLEPL Series of TORX Plus® Sockets with shallow countersink are designed for use on external TORX Plus® low-profile head fasteners to fully engage the fastener head
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability



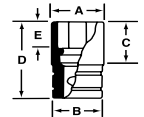
SLEPL200



GSLEPL200



213AFLEY



### ★ Shallow TORX®, Chrome

| #     | Stock No. | Industrial Stock No. | A     | B     | C     |
|-------|-----------|----------------------|-------|-------|-------|
| 18EP  | SLEPL180  | —                    | 29/32 | 15/16 | 1-1/2 |
| 20EP  | SLEPL200  | GSLEPL200            | 15/16 | 11/16 | 1-1/2 |
| 22EPL | SLEPL220  | —                    | 15/16 | 11/16 | 1-1/2 |
| 24EPL | SLEPL240  | —                    | 15/16 | 11/16 | 1-1/2 |

### SLEPL200 1/2" Drive 20EPL TORX Plus® with Countersink Socket

- For removal and installation of low-profile drive plate and flywheel bolts on QR25 Nissan® motors with automatic transmissions
- Similar to the J-45816 Nissan® specialty tool
- For flywheel bolts on Nissan® QR25 motors with manual transmissions use the FTX50TPE 3/8" Drive T50 TORX Plus® Male Socket

| #   | Stock No. | A      | B     | D     |
|-----|-----------|--------|-------|-------|
| E14 | SLE140    | 21/32  | 7/8   | 1-1/2 |
| E16 | SLE160A   | 23/32  | 27/32 | 1-1/2 |
| E18 | SLE180A   | 27/32  | 7/8   | 1-1/2 |
| E20 | SLE200A   | 15/16  | 7/8   | 1-1/2 |
| E24 | SLE240    | 1-1/16 | 1     | 1-1/2 |

Set includes magnetic storage tray.

### 213AFLEY 13 pc Combination Drive TORX® Shallow Socket Set



- Includes (13) sockets— 1/4" drive (E4–E10), 3/8" drive (E11–E14), and 1/2" drive (E16–E24)

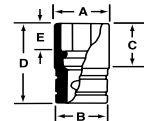
## SPLINE SOCKETS

Snap-on® spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary six- and 12-point fasteners with an advantage similar to the Snap-on Flank Drive® wrenching system.

### Shallow, Inches, Chrome (1/2")

|  |  | Stock No. | A      | B      | C     | D       | E     |
|---|---|-----------|--------|--------|-------|---------|-------|
| #16   | 1/2   | SES161B   | 23/32  | 55/64  | 5/8   | 1-19/64 | 29/64 |
| #18   | 9/16  | SES181B   | 53/64  | 55/64  | 5/8   | 1-19/64 | 15/32 |
| #20   | 5/8   | SES201B   | 29/32  | 29/32  | 7/8   | 1-17/32 | 17/32 |
| #22   | 11/16   | SES221B   | 31/32  | 31/32  | 7/8   | 1-17/32 | 9/16  |
| #24   | 3/4   | SES241B   | 1-1/16 | 31/32  | 13/16 | 1-17/32 | 9/16  |
| #26   | 13/16   | SES261B   | 1-1/8  | 1-1/16 | 25/32 | 1-17/32 | 9/16  |
| #28   | 7/8   | SES281B   | 1-3/16 | 1-1/8  | 25/32 | 1-17/32 | 9/16  |
| #30   | 15/16   | SES301B   | 1-9/32 | 1-7/32 | 3/4   | 1-17/32 | 9/16  |



SES161B

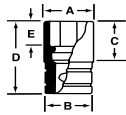


**WARNING**



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## SPECIAL APPLICATION SOCKETS



### Double Square, Inches, Chrome

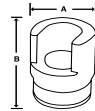


SW412

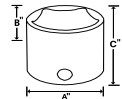
|       |  | Stock No. | A       | B      | C     | D       | E     |
|-------|--|-----------|---------|--------|-------|---------|-------|
| 3/8   |  | SW412     | 23/32   | 7/8    | 7/8   | 1-1/2   | 5/16  |
| 7/16  |  | SW414     | 51/64   | 7/8    | 7/8   | 1-1/2   | 3/8   |
| 1/2   |  | SW416     | 29/32   | 7/8    | 7/8   | 1-1/2   | 13/32 |
| 9/16  |  | SW418     | 31/32   | 29/32  | 7/8   | 1-1/2   | 7/16  |
| 5/8   |  | SW420     | 1-1/16  | 1      | 7/8   | 1-1/2   | 1/2   |
| 11/16 |  | SW422     | 1-3/16  | 1-1/8  | 7/8   | 1-1/2   | 1/2   |
| 3/4   |  | SW424     | 1-9/32  | 1-3/16 | 7/8   | 1-1/2   | 9/16  |
| 13/16 |  | SW426     | 1-7/16  | 1-3/8  | 1     | 1-5/8   | 5/8   |
| 7/8   |  | SW428     | 1-1/2   | 1-7/16 | 1-1/8 | 1-3/4   | 5/8   |
| 15/16 |  | SW430     | 1-5/8   | 1-9/16 | 1-1/8 | 1-13/16 | 11/16 |
| 1     |  | SW432     | 1-11/16 | 1-5/8  | 1-1/4 | 1-7/8   | 11/16 |



WH280



B2191

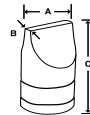


### Weatherhead® Fittings, Inches, Chrome

|       | Stock No. | A      | B       |
|-------|-----------|--------|---------|
| 7/8   | WH280     | 1-3/8  | 1-13/16 |
| 29/32 | WH290     | 1-7/16 | 1-13/16 |
| 15/16 | WH300     | 1-1/2  | 1-13/16 |



A26A



### Drag Link, Industrial

| Stock No. | A      | B    | C       |
|-----------|--------|------|---------|
| A15A      | 1-3/16 | .150 | 1-11/16 |
| A17A      | 15/16  | .150 | 1-11/16 |
| A26A      | 3/4    | .109 | 1-11/16 |

### Flank Drive® Pentagon Socket

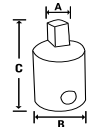
| Stock No. | A     | B   | C      |
|-----------|-------|-----|--------|
| B2191     | 1-1/8 | 1/2 | 1-1/16 |

#### B2191 1/2" Drive 5-Point SAE 1-1/8" Flank Drive® Pentagon Socket

- A specialty socket for servicing recessed 5-point nuts found on tamper-resistant Buffalo covers used by gas, electric and some water companies to protect shut-off gates



PPM516A



### Pipe Plug, Inches, Chrome

| Stock No. | A   | B     | C      |
|-----------|-----|-------|--------|
| PPM516A   | 1/2 | 15/16 | 1-7/16 |

## TORQUE ADAPTORS



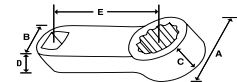
STA35

### Torque Adaptor 1/2" Drive Female/Male Torque Adaptor

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- 3.5" length measured center to center



SRDH321



### Standard, inches

- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas

| Working Torque, in-lb |        |         | A     | B     | C     | D     | E |
|-----------------------|--------|---------|-------|-------|-------|-------|---|
| 4,312                 | 1      | SRDH321 | 1.458 | 1.040 | 19/32 | 19/32 | 3 |
| 3,564                 | 1-1/16 | SRDH341 | 1.563 | 1.032 | 19/32 | 19/32 | 2 |
| 5,192                 | 1-1/8  | SRDH361 | 1.641 | 1.040 | 19/32 | 19/32 | 3 |
| 5,600                 | 1-1/4  | SRDH401 | 1.823 | 1.040 | 19/32 | 19/32 | 3 |
| 5,600                 | 1-3/8  | SRDH441 | 2.00  | 1.040 | 19/32 | 19/32 | 3 |



# SPLINE TORQUE ADAPTORS

1/2" DRIVE TOOLS

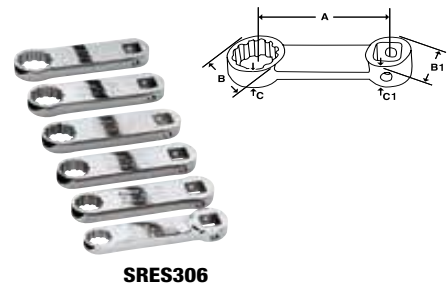
## Spline, Inches, Chrome (1/2")

- Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircrafts
- Precise radial spline teeth engage the fastener teeth over a wider area to minimize stress and allow application of high-torque to reduce risk of damage to the fastener or the tool

- Chrome tools comply with Military Spec MS-33787 and MIL-W-89823
- The unique spline wrenching configuration can also be used on ordinary six and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system

Set Contains: **SRES306**

| #   |       | Stock No.      | Working Torque, in-lb | A | B-B1      | C-C1        |   |
|-----|-------|----------------|-----------------------|---|-----------|-------------|---|
| #18 | 9/16  | <b>SRES18</b>  | 2,275                 | 3 | .818-1.04 | 13/32-1/2   | • |
| #20 | 5/8   | <b>SRES20</b>  | 2,450                 | 3 | .900-1.04 | 1/2-1/2     | • |
| #22 | 11/16 | <b>SRES22</b>  | 2,975                 | 3 | .989-1.04 | 1/2-1/2     | • |
| #24 | 3/4   | <b>SRES24</b>  | 3,500                 | 3 | 1.08-1.04 | 1/2-1/2     | • |
| #26 | 13/16 | <b>SRES26</b>  | 4,410                 | 3 | 1.16-1.04 | 1/2-1/2     | • |
| #28 | 7/8   | <b>SRES28</b>  | 4,900                 | 3 | 1.26-1.04 | 1/2-1/2     | • |
| #30 | 15/16 | <b>SRES30A</b> | 6,000                 | 3 | 1.26-1.04 | 37/64-37/64 | • |



## Double Hex, mm, Chrome (1/2")

| Stock No.      | A   | B    | C   | D   | E    |
|----------------|-----|------|-----|-----|------|
| <b>SRDHM30</b> | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |



## TORX® BIT SOCKETS



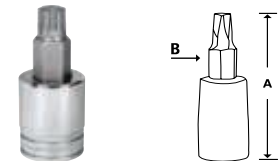
### ★ TORX®/Standard, Chrome (1/2")

| #   | Stock No.     | A       | B              |
|-----|---------------|---------|----------------|
| T55 | <b>STX55E</b> | 2-9/16  | <b>FTX55E2</b> |
| T60 | <b>STX60E</b> | 3-11/32 | <b>STX60E2</b> |
| T70 | <b>STX70E</b> | 3-1/2   | <b>STX70E2</b> |



### ★ TORX®/Long, Chrome (1/2")

| #   | Stock No.      | A       | B               |
|-----|----------------|---------|-----------------|
| T50 | <b>STXL50E</b> | 4-5/8   | <b>STXL50E2</b> |
| T55 | <b>STXL55E</b> | 4-5/8   | <b>STXL55E2</b> |
| T60 | <b>STXL60E</b> | 4-5/8   | <b>STXL60E2</b> |
| T70 | <b>K1820A</b>  | 5-3/8   | <b>K1820A2</b>  |
| T80 | <b>STXL80E</b> | 4-51/64 | <b>STXL80E2</b> |



**STX60TPE**

### ★ TORX Plus®, Chrome (1/2")

| #    | Stock No.       | A       | B                |
|------|-----------------|---------|------------------|
| 45IP | <b>STX45TPE</b> | 2-9/16  | <b>FTX45TPE2</b> |
| 50IP | <b>STX50TPE</b> | 2-43/64 | <b>STX50TPE2</b> |
| 55IP | <b>STX55TPE</b> | 2-3/4   | <b>FTX55TPE2</b> |
| 60IP | <b>STX60TPE</b> | 3-9/32  | <b>STX60TPE2</b> |

## METRIC HEX BIT SOCKETS

### Hex/Standard, mm, Chrome (1/2")

Set Contains: **307ESAMY**

| mm |               | A     | B              |   |
|----|---------------|-------|----------------|---|
| 6  | <b>SAM6E</b>  | 60.5  | <b>FAM6E2</b>  | • |
| 8  | <b>SAM8E</b>  | 62    | <b>FAM8E2</b>  | • |
| 10 | <b>SAM10E</b> | 62.8  | <b>SAM10E2</b> | • |
| 12 | <b>SAM12E</b> | 81    | <b>SAM12E2</b> | • |
| 14 | <b>SAM14E</b> | 81    | <b>SAM14E2</b> | • |
| 14 | <b>SAM16E</b> | 95.2  | <b>SAM16E2</b> | • |
| 17 | <b>SAM17E</b> | 93.7  | <b>SAM17E2</b> | • |
| 19 | <b>SAM19E</b> | 103.1 | <b>SAM19E2</b> | • |



Set includes magnetic storage tray.

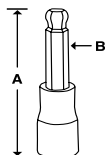


- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## METRIC HEX BIT SOCKETS



SABLM12E



### Ball Hex/Long, mm, Chrome (1/2")

| mm | Part No. | A     | B         |
|----|----------|-------|-----------|
| 12 | SABLM12E | 137.1 | SABLM12E2 |



SAM12LE

### Hex/Long, mm, Chrome (1/2")

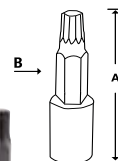
| mm | Part No. | A     | B        |
|----|----------|-------|----------|
| 10 | SAM10LE  | 152.4 | SAM10LE2 |
| 12 | SAM12LE  | 98    | SAM12LE2 |
| 13 | SAM13LE  | 24.2  | SAM13LE2 |

### SAM12LE 1/2" Drive Metric 12 mm Long Hex Bit Socket

- Essential for removal or installation of bolt found on the lower forks of 2006 and newer Harley-Davidson® Dyna® series
- Used when servicing the internal parts of the fork

### Double Hex/Standard, mm, Chrome (1/2")

Double Hex Socket Drivers and Triple Square Socket Drivers cannot be interchanged between applications. Triple Square Socket Drivers have 90° corners. Double Hex Socket Drivers have 120° corners. Using a Triple Square tool in a Double Hex application will strip the bolt head. In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles.



SADM10E

| mm | Part No. | A     | B        |
|----|----------|-------|----------|
| 10 | SADM10E  | 100.0 | SADM10E2 |

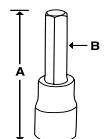
### SADM10E 1/2" Drive Metric 10 mm Lexus®/ Toyota® Double Hex Socket Driver

- Applications include removal/installation of head bolts on Toyota® Highlander®, 4Runner®, Camry®, Matrix®, Corolla® and Lexus® IS300, GS300, SC300 vehicles

## HEX BIT SOCKETS



307ESAY



### Hex/Standard, inches (1/2")

Set Contains: 307ESAY

| Part No. | Hex Size | Hex Size | A        | B        | Optional Ret Ring |
|----------|----------|----------|----------|----------|-------------------|
| SA10E    | 5/16"    | GSA10E   | 2-3/8"   | FA10E2   | •                 |
| SA12E    | 3/8"     | GSA12E   | 2-1/2"   | SA12E2   | •                 |
| SA14E    | 7/16"    | GSA14E   | 2-7/8"   | SA14E2   | •                 |
| SA16E    | 1/2"     | GSA16E   | 3-1/16"  | SA16E2   | •                 |
| SA18E    | 9/16"    | GSA18E   | 3-3/16"  | SA18E2   | •                 |
| SA20E    | 5/8"     | GSA20E   | 3-11/32" | LAW120E2 | •                 |
| SA24E    | 3/4"     | GSA24E   | 4-1/16"  | LAW124E2 | •                 |

Set includes magnetic storage tray.

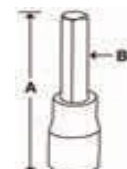
## IMPACT DRIVERS AND SETS

### Impact Rated Hex Drivers (1/2")

- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Snap-on® bits are designed with a precise fit and tight tolerances to prevent slippage and disengagement
- Outperform one-piece design models; two-piece design makes replacement economical and convenient
- Bits can be easily replaced by hand—no need to put them in a vice and punch them out with a hammer
- 3/8" drive sizes—12 and 14 mm, 1/2 and 9/16"
- 1/2" drive sizes—5/8, 11/16, 3/4 and 7/8"
- Optional retaining ring ensures positive attachment to anvil for added protection – RR37575 for 3/8" models and RR50130 for 1/2" models
- Designed for use with pneumatic or cordless impact guns



IMSA20



| Stock No. | Size   | Drive | A      | B        | Optional Ret Ring |
|-----------|--------|-------|--------|----------|-------------------|
| IMSA20    | 5/8"   | 1/2"  | 3-1/2" | IMSA20-2 | RR50130           |
| IMSA22    | 11/16" | 1/2"  | 3-1/2" | IMSA22-2 | RR50130           |
| IMSA24    | 3/4"   | 1/2"  | 3-1/2" | IMSA24-2 | RR50130           |
| IMSA28    | 7/8"   | 1/2"  | 3-1/2" | IMSA24-2 | RR50130           |

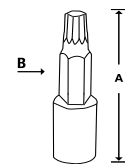
# TRIPLE SQUARE BIT SOCKETS



STSM10LE



TSS7KIT



Set Contains:

TSS7KIT

## Triple Square/Standard, mm, Chrome (1/2")

| mm              |    | Stock No. | A     | B         |   |
|-----------------|----|-----------|-------|-----------|---|
| Standard Length | 10 | STSM10E   | 88.9  | STSM10E2  | • |
|                 | 12 | STSM12E   | 109.5 | STSM12E2  | • |
|                 | 14 | STSM14E   | 108.0 | STSM14E2  | • |
|                 | 16 | STSM16E*  | 108.0 | STSM16E2  | • |
|                 | 18 | STSM18E   | 108.0 | STSM18E2  | • |
| Long            | 10 | STSM10LE  | 156.3 | STSM10LE2 | • |
|                 | 12 | STSM12LE  | 147.6 | STSM12LE2 | • |

\*Tamper resistant

Set shown includes storage tray.

### STSM12E 1/2" Drive Metric 12 mm Standard Triple Square Bit Socket Driver

- Applications include removal/installation of cylinder head bolts on Mercedes-Benz®, rear toe adjustment on 1999 and newer Audi® A6® and axle shaft bolts on new VW® vehicles

### STSM14E 1/2" Drive Metric 14 mm Standard Triple Square Bit Socket Driver

- Applications include 2003 and later VW® Touareg® front axle bolts, 2003 and later Porsche® Cayenne® front axle bolts, various Audi®/VW® axle bolts and Audi® TT differential mount bolts and transmission drain plugs

### STSM16E 1/2" Drive Metric 16 mm Standard Triple Square Bit Socket Driver

- Applications include Audi® TT clutch and belly pan, various VW®/Audi® transmission drain plugs (tamper-resistant), 2003 and later VW® Touareg® front and rear brake caliper bolts, 2003 and later Porsche® Cayenne® brake caliper bolts, Detroit Diesel® flywheel bolts and front crank pulley on 900 and 4000 engines and head bolts on 900 engines

### STSM18E 1/2" Drive Metric 18 mm Standard Triple Square Bit Socket Driver

- Applications include removal/installation of rear axle bolts of 2006 VW® Jetta® and Golf® vehicles

### STSM10E 1/2" Drive Metric 10 mm Standard Triple Square Bit Socket Driver

- Double hex bit sockets and triple square bit sockets cannot be interchanged between applications
- Triple square bit sockets have 90° corners and double hex bit sockets have 120° corners
- Using a triple square bit socket in a double hex bit application will strip the bolt head
- In general, triple square bit sockets are used on European vehicles
- Pinless bits (no roll pin) provide a solid fit, are easily replaced, and have no hole to collect dirt and grit
- Bits feature natural oil coat finish to protect against corrosion

## Triple Square/Stubby, mm, Chrome (1/2")

- Pinless bits (no roll pin) provide a solid fit, are easily replaced, and have no hole to collect dirt and grit
- Bit sockets are chrome plated
- Bits feature natural oil coat finish to protect against corrosion
- Double Hex socket drivers and Triple Square socket drivers cannot be interchanged between applications
- Using a Triple Square tool in a Double Hex application will strip the bolt head
- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles



305STSMSE

Set Contains:  
305STSMSE

| mm | Stock No. | A    | B         |   |
|----|-----------|------|-----------|---|
| 10 | STSM10SE  | 59.4 | STSM10SE2 | • |
| 12 | STSM12SE  | 59.4 | STSM12SE2 | • |
| 14 | STSM14SE  | 63.2 | STSM14SE2 | • |
| 16 | STSM16SE  | 68.1 | STSM16SE2 | • |
| 18 | STSM18SE  | 69.8 | STSM18SE2 | • |

Set includes magnetic storage tray.

### STSM10SE 1/2" Drive Metric 10 mm Triple Square Bit Socket Driver

- Applications include removal/installation of cylinder head bolts, drive shaft bolts and various other applications on VW®, Audi® and Mercedes-Benz® vehicles

### STSM12SE 1/2" Drive Metric 12 mm Triple Square Bit Socket Driver

- Applications include removal/installation of head bolts and axle shaft bolts on VW®, Audi® and Mercedes® vehicles

### STSM14SE 1/2" Drive Metric 14 mm Triple Square Bit Socket Driver

- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles

### STSM16SE 1/2" Drive Metric 16 mm Triple Square Bit Socket Driver

- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles

### STSM18SE 1/2" Drive Metric 18 mm Triple Square Bit Socket Driver

- In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles

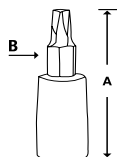


• Do not use chrome or industrial finish hand tools with impact drivers  
• Read safety precautions on pages W1 to W4

## SPECIAL APPLICATION BIT SOCKETS



SPDL10E



### PolyDrive Head Bolts, mm (1/2")

|  | Stock No. | Description   | A   | B        |
|---|-----------|---|-----|----------|
| 10  | SPDL10E   | 1/2" Drive Metric 10 mm VW®/Audi® Polydrive Head Bolt Bit Socket Driver | 159 | SPDL10E2 |

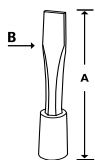
#### SPDL10E 1/2" Drive Metric 10 mm VW®/Audi® Polydrive Head Bolt Bit Socket Driver

- Applications include removal/installation of #10 PolyDrive cylinder head bolts on 1998 and later VW®/Audi® vehicles with 5-valve motors


## FLAT TIP AND PHILLIPS® TIP BIT SOCKETS



SW32E

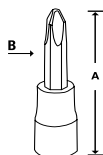


### — Flat Tip/ Standard, Chrome (1/2")


|  | Stock No. | A      | B       |
|---|-----------|--------|---------|
| 7/16 x .050   | SW28E     | 3-1/16 | SW28E2A |
| 1/2 x .075  | SW32E     | 3-1/16 | SW32E2A |
| 5/8 x .093  | SW40E     | 3-1/4  | SW40E2A |



SP32E



### PHILLIPS®/Standard, Chrome (1/2")

|  | Stock No. | A      | B      |
|---|-----------|--------|--------|
| #3  | SP32E     | 2-3/16 | SP32E2 |
| #4  | SP42E     | 2-5/16 | SP42E2 |

## IMPACT DRIVERS AND SETS



PIT160



PIT3120EB

### Impact Driver Set (1/2")

Set Contains: **PIT3120EB**

| Stock No. | Description  |   |
|-----------|--|---|
| PIT160    | 1/2" Drive Impact Driver                             | • |
| A26A      | 1/2" Drive 3/4" Blade Width Drag Link Socket         | • |
| SA10E     | 1/2" Drive SAE 5/16" Standard Hex Bit Socket Driver  | • |
| SA12E     | 1/2" Drive SAE 3/8" Standard Hex Bit Socket Driver   | • |
| SA14E     | 1/2" Drive SAE 7/16" Standard Hex Bit Socket Driver  | • |
| SA16E     | 1/2" Drive SAE 1/2" Standard Hex Bit Socket Driver   | • |
| SA18E     | 1/2" Drive SAE 9/16" Standard Hex Bit Socket Driver  | • |
| SA20E     | 1/2" Drive SAE 5/8" Standard Hex Bit Socket Driver   | • |
| SP32E     | 1/2" Drive #3 PHILLIPS® Standard Bit Socket Driver   | • |
| SP42E     | 1/2" Drive #4 PHILLIPS® Standard Bit Socket Driver   | • |
| SW28E     | 1/2" Drive 7/16" Flat Tip Standard Bit Socket Driver | • |
| SW32E     | 1/2" Drive 1/2" Flat Tip Standard Bit Socket Driver  | • |
| KRA142B   | Metal Storage Case                                   | • |

#### PIT160 1/2" Drive Impact Driver

- This 1/2" drive unit delivers cam action impact when struck with a hammer

#### PIT3120EB 12 pc 1/2" Drive Impact Driver Set

- PIT160 Impact Driver plus sockets and socket drivers (12 pc) in KRA142B Metal Storage Case

## Extensions

- Ideal for use on transmission bellhousing bolts, transaxle and suspension service
- Pull-back collar for fast and easy attachment and removal of sockets
- Knurled release collar provides easy one-hand operation
- Single body construction for maximum strength and locking mechanism specifically for impact use
- Female drive end recessed to accommodate newer style impact guns

## Extensions/Locking

| Stock No. | A   | B     | Set Contains: |          |
|-----------|-----|-------|---------------|----------|
|           |     |       | 303IMXL       | 303AIMXL |
| IMXL32    | 5/8 | 3-1/2 | •             |          |
| IMXL52    | 5/8 | 5     | •             |          |
| IMXL102   | 5/8 | 10    | •             |          |
| IMXL182   | 5/8 | 18    |               | •        |
| IMXL242   | 5/8 | 24    |               | •        |
| IMXL312   | 5/8 | 31    |               | •        |

Sets include storage tray.



## Extensions/Snap Ring Retention, Industrial

| Stock No. | A     | B      | Set Contains: |  |
|-----------|-------|--------|---------------|--|
|           |       |        | 304IMX        |  |
| IMX32B    | 5/8   | 3      | •             |  |
| IMX52     | 21/32 | 5-3/32 | •             |  |
| IMX112    | 21/32 | 11-1/4 | •             |  |

Set includes IP80D and storage tray.

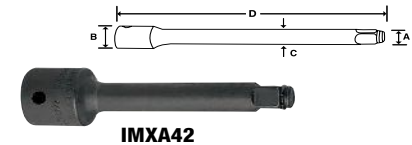


## 304IMX 4 pc 1/2" Drive Impact Extension Set

- Includes (3) extensions (3, 5-3/32 and 11-1/4") plus (1) universal joint in a storage tray

## Extension Adaptor

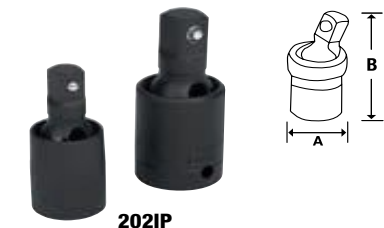
| Stock No. | A   | B   | C   | D |
|-----------|-----|-----|-----|---|
| IMXA42    | 3/8 | 1/2 | 1/2 | 4 |



## Universal Joints (Impact)

| Stock No. | Socket Attachment | A     | B     |
|-----------|-------------------|-------|-------|
| IP80D     | Pin Type          | 1-1/4 | 2-3/4 |
| IP800     | Ball Type         | 1-1/4 | 2-3/4 |

Set includes storage tray.



## 202IP 2 pc Combination Drive Impact Universal Joint Set

- Includes 3/8" drive and 1/2" drive Impact Swivel Universal Joints

## Swivel Extensions (1/2")

- Laser-welded pivot pin allows smooth, full 30° swivel action for efficient power transfer
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- Provides versatility for the technician as they can use any shallow, semi-deep, deep, 6-point, 12-point, metric or SAE impact socket, and are not limited to just one size

### IPSX6 1/2 Drive 6" Swivel Impact Extension

- Removes and installs bolts/nuts with a 1/2" impact gun
- Technician can use any shallow, semi-deep, deep, 6-point, 12-point, metric or SAE impact socket with this extension
- Employs friction ball socket retention method
- Manufactured from special alloy and heat-treated for optimum strength and durability

### IPSXL6 1/2 Drive 6" Swivel Impact Pinned Extension

- Removes and installs bolts/nuts with a 1/2" impact gun
- Technicians can use any shallow, semi-deep, 6-point, 12-point, metric or SAE impact socket with this extension
- Manufactured from special alloy and heat-treated for optimum strength and durability
- Laser welded pivot pin allows smooth, full 30° swivel action for efficient power transfer
- Employs lock button engagement in side lock holes of socket ensuring positive retention



• Do not use chrome or industrial finished hand tools with power impact drivers  
• Read safety precautions on pages W1 to W4

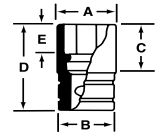
# FLANK DRIVE® IMPACT SOCKETS



IMM150A



310IMMYA



Shallow, mm

| mm | Set Contains: |          |      |      |      |      |      |   |   |   |    |   |
|----|---------------|----------|------|------|------|------|------|---|---|---|----|---|
|    | 6             | 12       | A    | B    | C    | D    | E    | 6 | 6 | 6 | 12 |   |
| 10 | IMM100A       | IMDM100A | 15.0 | 22.6 | 22.2 | 38.1 | 7.9  | • |   |   | •  | • |
| 11 | IMM110A       | IMDM110A | 18.2 | 22.6 | 22.2 | 38.1 | 8.7  | • |   |   | •  | • |
| 12 | IMM120A       | IMDM120A | 19.0 | 24.3 | 22.2 | 38.1 | 9.5  | • |   |   | •  | • |
| 13 | IMM130A       | IMDM130A | 20.6 | 24.3 | 22.2 | 38.1 | 10.3 | • |   |   | •  | • |
| 14 | IMM140A       | IMDM140A | 22.2 | 24.3 | 22.2 | 38.1 | 10.3 | • |   |   | •  | • |
| 15 | IMM150A       | IMDM150A | 23.8 | 26.4 | 22.2 | 38.1 | 10.3 | • | • |   | •  | • |
| 16 | IMM160A       | IMDM160A | 24.6 | 26.4 | 22.2 | 38.1 | 11.9 | • | • |   | •  | • |
| 17 | IMM170A       | IMDM170A | 25.4 | 26.7 | 22.2 | 38.1 | 12.7 | • | • |   | •  | • |
| 18 | IMM180        | IMDM180  | 26.7 | 26.7 | 19.1 | 38.1 | 12.7 | • | • |   | •  | • |
| 19 | IMM190        | IMDM190  | 28.3 | 28.3 | 21.3 | 38.1 | 12.7 | • | • |   | •  | • |
| 20 | IMM200        | IMDM200  | 29.9 | 29.9 | 21.1 | 38.1 | 14.2 | • | • |   |    | • |
| 21 | IMM210        | IMDM210  | 31.5 | 31.5 | 21.0 | 38.1 | 14.2 | • | • |   |    | • |
| 22 | IMM220        | IMDM220  | 33.3 | 33.3 | 21.4 | 38.1 | 15.9 | • | • |   |    | • |
| 23 | IMM230        | IMDM230  | 34.1 | 34.1 | 27.8 | 44.5 | 15.9 | • | • |   |    | • |
| 24 | IMM240        | IMDM240  | 34.9 | 34.9 | 27.8 | 44.5 | 15.9 | • | • |   |    | • |
| 25 | IMM250        | —        | 29.8 | 29.8 | 27.0 | 44.5 | 15.9 |   | • |   |    |   |
| 26 | IMM260        | —        | 38.1 | 38.1 | 33.3 | 50.8 | 15.9 |   |   |   |    |   |
| 27 | IMM270        | IMDM270  | 39.4 | 39.4 | 27.1 | 50.8 | 20.3 |   | • |   |    |   |
| 29 | IMM290        | —        | 41.1 | 41.1 | 33.3 | 50.8 | 21.1 |   |   |   |    |   |
| 30 | IMM300        | —        | 42.7 | 42.7 | 32.1 | 50.8 | 21.6 |   |   |   |    |   |
| 32 | IMM320        | IMDM320  | 45.7 | 45.7 | 36.8 | 50.8 | 20.6 |   |   |   |    |   |
| 34 | IMM340        | —        | 47.6 | 42.9 | 40.5 | 52.4 | 22.4 |   |   |   |    |   |
| 36 | IMM360        | IMDM360  | 50.8 | 46.0 | 41.3 | 57.2 | 22.2 |   |   |   |    |   |
| 39 | —             | IMDM390  | 53.8 | 39.6 | 36.8 | 50.8 | 22.3 |   |   |   |    |   |
| 41 | —             | IMDM410  | 55.6 | 40.5 | 31.8 | 51.6 | 22.2 |   |   |   |    |   |
| 46 | IMM460        | —        | 64.8 | 47.6 | 50.3 | 69.9 | 29.7 |   |   |   |    |   |

Sets include storage tray.

### IMDM360 1/2" Drive 12-Point Metric 36 mm Flank Drive® Shallow Impact Socket

- Applications include the removal and installation of Duramax® Diesel front crankshaft bolt, late-model BMW® axle shafts, and 2003 GM® and 2004 Dodge® pinion nuts on trucks with 11.5 AAM axles
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding while exceeding ANSI® performance standards

### IMDM320 1/2" Drive 12-Point Metric 32 mm Flank Drive® Shallow Impact Socket

- Applications include servicing axle nuts on 1992–1999 Mercedes-Benz® W140 chassis SC and SL Class; Porsche® Boxster®, Cayenne® and 944; plus 2007–later BMW® x3, X5® and X6® Series vehicles
- Other uses include drive shaft nuts on 2003–later VW® Touareg® vehicles

### IMDM390 1/2" Drive 12-Point Metric 39 mm Flank Drive® Shallow Impact Socket

- Applications include the front axle hub of 2007 Toyota® Tundra 4WD; and servicing inner rack and pinion nuts on BMW® X5® and X6® vehicles

### IMDM270 1/2" Drive 12-Point Metric 27 mm Flank Drive® Shallow Impact Socket

- CFDS12B–CFDS24B sockets (3/8–3/4")
- (8 pc) plus CFS949A ratchet in C0800 kit bag

### IMDM410 1/2" Drive 12-Point Metric 41 mm Flank Drive® Shallow Impact Socket

- Applications include removal and installation of lower ball joint on 2013 current BMW® 5 and 7 Series vehicles
- 41 mm, 12-point, 1/2" drive

# FLANK DRIVE® IMPACT SOCKETS

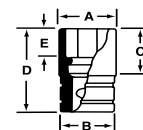
1/2" DRIVE TOOLS



IMD120A



311IMYA



## Shallow, inches

| Socket Size | Hex Size | Hex Size | A       | B      | C       | D      | E     | Set Contains: |        |          |
|-------------|----------|----------|---------|--------|---------|--------|-------|---------------|--------|----------|
|             |          |          |         |        |         |        |       | 311IMYA       | 313IMD | 307IMDYA |
| 3/8         | 6        | 12       | 19/32   | 29/32  | 7/8     | 1-1/2  | 5/16  | •             | •      | •        |
| 7/16        | 6        | 12       | 23/32   | 29/32  | 7/8     | 1-1/2  | 11/32 | •             | •      | •        |
| 1/2         | 6        | 12       | 13/16   | 29/32  | 7/8     | 1-1/2  | 13/32 | •             | •      | •        |
| 9/16        | 6        | 12       | 7/8     | 29/32  | 7/8     | 1-1/2  | 13/32 | •             | •      | •        |
| 5/8         | 6        | 12       | 15/16   | 1      | 7/8     | 1-1/2  | 15/32 | •             | •      | •        |
| 11/16       | 6        | 12       | 1-1/16  | 1-1/16 | 3/4     | 1-1/2  | 1/2   | •             | •      | •        |
| 3/4         | 6        | 12       | 1-1/8   | 1-1/8  | 3/4     | 1-1/2  | 1/2   | •             | •      | •        |
| 13/16       | 6        | 12       | 1-1/4   | 1-1/4  | 3/4     | 1-1/2  | 1/2   | •             | •      | •        |
| 7/8         | 6        | 12       | 1-5/16  | 1-5/16 | 13/16   | 1-1/2  | 9/16  | •             | •      | •        |
| 15/16       | 6        | 12       | 1-3/8   | 1-3/8  | 1-1/16  | 1-3/4  | 3/4   | •             | •      | •        |
| 1           | 6        | 12       | 1-7/16  | 1-7/16 | 1-1/16  | 1-3/4  | 3/4   | •             | •      | •        |
| 1-1/16      | 6        | 12       | 1-9/16  | 1-9/16 | 1       | 2      | 13/16 |               |        |          |
| 1-1/8       | 6        | 12       | 1-5/8   | 1-5/8  | 1       | 2      | 13/16 |               | •      |          |
| 1-3/16      | 6        | 12       | 1-11/16 | 1-1/2  | 1-3/32  | 2      | 13/16 |               |        |          |
| 1-1/4       | 6        | 12       | 1-3/4   | 1-1/2  | 1-5/32  | 2      | 13/16 |               | •      |          |
| 1-5/16      | 6        | 12       | 1-7/8   | 1-1/2  | 1-3/8   | 2      | 7/8   |               |        |          |
| 1-3/8       | 6        | 12       | 1-15/16 | 1-1/2  | 1-3/8   | 2      | 7/8   |               |        |          |
| 1-7/16      | 6        | 12       | 2       | 1-1/2  | 1-3/8   | 2      | 15/16 |               |        |          |
| 1-1/2       | 6        | 12       | 2-1/8   | 1-9/16 | 1-3/8   | 2      | 15/16 |               |        |          |
| 1-9/16      | 6        | 12       | 2-1/4   | 1-5/8  | 1-11/16 | 2-5/16 | 15/16 |               |        |          |

Sets shown include storage tray.



IMMS240



312IMMS

## Semi-Deep, mm

| Socket Size (mm) | Hex Size | Hex Size | A    | B    | D    | E    | Set Contains: |         |
|------------------|----------|----------|------|------|------|------|---------------|---------|
|                  |          |          |      |      |      |      | 307IMMS       | 312IMMS |
| 10               | 6        | 12       | 15.9 | 23   | 56.4 | 7.1  |               |         |
| 12               | 6        | 12       | 19.8 | 23   | 56.4 | 8.7  | •             |         |
| 13               | 6        | 12       | 21.4 | 23   | 56.4 | 9.5  |               |         |
| 14               | 6        | 12       | 23   | 23   | 56.4 | 10.3 | •             |         |
| 15               | 6        | 12       | 23.8 | 23   | 56.4 | 10.3 |               | •       |
| 16               | 6        | 12       | 24.6 | 24.6 | 56.4 | 11.9 | •             | •       |
| 17               | 6        | 12       | 25.4 | 25.4 | 56.4 | 11.1 |               | •       |
| 18               | 6        | 12       | 27   | 27   | 56.4 | 12.7 | •             | •       |
| 19               | 6        | 12       | 28.6 | 28.6 | 56.4 | 13.5 |               | •       |
| 20               | 6        | 12       | 30.2 | 30.2 | 56.4 | 13.5 | •             | •       |
| 21               | 6        | 12       | 31.8 | 31.8 | 56.4 | 13.5 |               | •       |
| 22               | 6        | 12       | 33.3 | 33.3 | 60.3 | 13.5 | •             | •       |
| 23               | 6        | 12       | 34.1 | 34.1 | 60.3 | 15.9 |               | •       |
| 24               | 6        | 12       | 34.9 | 34.9 | 60.3 | 15.1 | •             | •       |
| 25               | 6        | 12       | 36.5 | 36.5 | 60.3 | 15.9 |               | •       |
| 27               | 6        | 12       | 39.7 | 39.7 | 60.3 | 19.8 |               | •       |
| 30               | 6        | 12       | 42.9 | 42.9 | 63.5 | 21.4 |               |         |
| 32               | 6        | 12       | 46   | 46   | 63.5 | 22.2 |               |         |
| 34               | 6        | 12       | 44   | 52   | 70   | 22   |               |         |
| 36               | 6        | 12       | 51   | 44   | 70   | 22   |               |         |

Set shown includes storage tray.



• Read safety precautions on pages W1 to W4

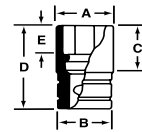
# FLANK DRIVE® IMPACT SOCKETS



IMS300



312IMS



## Semi-Deep, inches

| 1/2" Drive | Hex Size | A      | B      | C       | D       | E     | Set Contains: |        |
|------------|----------|--------|--------|---------|---------|-------|---------------|--------|
|            |          |        |        |         |         |       | 307IMS        | 312IMS |
| 1/2        | IMS160   | 27/32  | 29/32  | 1-17/32 | 2-7/32  | 3/8   |               | •      |
| 9/16       | IMS180   | 29/32  | 29/32  | 1-17/32 | 2-7/32  | 13/32 | •             | •      |
| 5/8        | IMS200   | 31/32  | 31/32  | 1-17/32 | 2-7/32  | 15/32 | •             | •      |
| 11/16      | IMS220   | 1-1/16 | 1-1/16 | 1-7/32  | 2-7/32  | 1/2   | •             | •      |
| 3/4        | IMS240   | 1-1/8  | 1-1/8  | 1-3/16  | 2-7/32  | 17/32 | •             | •      |
| 13/16      | IMS260   | 1-1/4  | 1-1/4  | 1-3/16  | 2-7/32  | 9/16  | •             | •      |
| 7/8        | IMS280   | 1-5/16 | 1-5/16 | 1-3/8   | 2-13/32 | 5/8   | •             | •      |
| 15/16      | IMS300   | 1-3/8  | 1-3/8  | 1-11/32 | 2-13/32 | 21/32 | •             | •      |
| 1          | IMS320   | 1-7/16 | 1-7/16 | 1-11/32 | 2-13/32 | 23/32 |               | •      |
| 1-1/16     | IMS340   | 1-9/16 | 1-9/16 | 1-11/32 | 2-13/32 | 3/4   |               | •      |
| 1-1/8      | IMS360   | 1-5/8  | 1-5/8  | 1-7/16  | 2-1/2   | 25/32 |               | •      |
| 1-1/4      | IMS400   | 1-3/4  | 1-3/4  | 1-7/16  | 2-1/2   | 7/8   |               | •      |

Set includes storage tray.



SIMM340



310SIMMYA

## Deep, mm

| mm | Set Contains: |          | A    | B    | C    | D    | E    | Set Contains: |           |              |         |           |         |          |
|----|---------------|----------|------|------|------|------|------|---------------|-----------|--------------|---------|-----------|---------|----------|
|    | 6             | 12       |      |      |      |      |      | 305SIMMY      | 310SIMMYA | 310SIMMADDON | 312SIMM | 315SIMMYA | 325SIMM | 312SIMDM |
| 10 | SIMM100A      | SIMDM100 | 15.0 | 23.2 | 66.7 | 82.6 | 7.9  | •             | •         |              |         |           | •       | •        |
| 11 | SIMM110A      | SIMDM110 | 18.2 | 23.2 | 66.7 | 82.6 | 8.7  | •             |           |              |         |           | •       | •        |
| 12 | SIMM120A      | SIMDM120 | 19.0 | 23.2 | 66.7 | 82.6 | 9.5  | •             |           |              |         |           | •       | •        |
| 13 | SIMM130A      | SIMDM130 | 20.6 | 23.2 | 66.7 | 82.6 | 10.3 | •             |           |              |         |           | •       | •        |
| 14 | SIMM140A      | SIMDM140 | 22.2 | 23.2 | 66.7 | 82.6 | 10.3 | •             |           |              |         |           | •       | •        |
| 15 | SIMM150A      | SIMDM150 | 23.8 | 23.8 | 50.0 | 82.6 | 10.3 | •             |           |              | •       | •         | •       | •        |
| 16 | SIMM160A      | SIMDM160 | 24.6 | 24.6 | 50.0 | 82.6 | 11.9 | •             |           |              | •       | •         | •       | •        |
| 17 | SIMM170       | SIMDM170 | 25.1 | 25.1 | 57.9 | 82.6 | 11.2 | •             |           |              | •       | •         | •       | •        |
| 18 | SIMM180       | SIMDM180 | 26.7 | 26.7 | 61.0 | 82.6 | 12.7 | •             |           |              | •       | •         | •       | •        |
| 19 | SIMM190       | SIMDM190 | 28.3 | 28.3 | 61.0 | 82.6 | 14.2 | •             |           |              | •       | •         | •       | •        |
| 20 | SIMM200       | SIMDM200 | 29.9 | 29.9 | 61.0 | 82.6 | 14.2 |               |           |              | •       | •         | •       | •        |
| 21 | SIMM210       | SIMDM210 | 31.5 | 31.5 | 61.0 | 82.6 | 14.2 |               |           |              | •       | •         | •       | •        |
| 22 | SIMM220       | SIMDM220 | 33.1 | 33.1 | 71.6 | 88.9 | 15.7 |               |           |              | •       | •         | •       | •        |
| 23 | SIMM230       | SIMDM230 | 33.1 | 33.1 | 64.3 | 88.9 | 15.9 |               |           |              | •       | •         | •       | •        |
| 24 | SIMM240       | SIMDM240 | 34.9 | 34.9 | 63.5 | 88.9 | 15.9 |               |           |              | •       | •         | •       | •        |
| 25 | SIMM250       | SIMDM250 | 36.3 | 36.3 | 63.5 | 88.9 | 15.9 |               |           |              | •       | •         | •       | •        |
| 26 | SIMM260       | —        | 37.9 | 37.9 | 71.0 | 88.9 | 19.8 |               |           |              | •       |           | •       |          |
| 27 | SIMM270       | SIMDM270 | 39.4 | 39.4 | 71.0 | 88.9 | 20.3 |               |           |              | •       | •         | •       | •        |
| 28 | SIMM280A      | —        | 41.0 | 41.0 | 71.0 | 88.9 | 20.8 |               |           |              |         |           |         |          |
| 29 | SIMM290       | SIMDM290 | 41.3 | 41.3 | 71.6 | 88.9 | 21.3 | •             |           |              | •       |           | •       |          |
| 30 | SIMM300       | SIMDM300 | 42.9 | 42.9 | 71.6 | 88.9 | 21.6 | •             |           |              |         |           | •       |          |
| 32 | SIMM320       | SIMDM320 | 45.8 | 45.8 | 71.6 | 88.9 | 22.4 |               |           |              | •       |           | •       |          |
| 33 | SIMM330       | SIMDM330 | 46.0 | 46.0 | 72.8 | 88.9 | 22.4 |               |           |              | •       |           | •       |          |
| 34 | SIMM340       | SIMDM340 | 49.3 | 49.3 | 72.8 | 88.9 | 22.6 | •             |           |              | •       |           | •       |          |
| 35 | SIMM350       | SIMDM350 | 50.8 | 50.8 | 72.8 | 88.9 | 22.9 | •             |           |              | •       |           | •       |          |
| 36 | SIMM360       | SIMDM360 | 50.8 | 50.8 | 72.8 | 88.9 | 22.9 | •             |           |              | •       |           | •       |          |

Sets shown include storage tray.



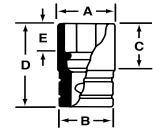
# FLANK DRIVE® IMPACT SOCKETS



SIMD300A



313SIMA



## Deep, inches

| Socket Depth | Set Contains: |          |         |        |         |       |       |   |   |   |   |    |
|--------------|---------------|----------|---------|--------|---------|-------|-------|---|---|---|---|----|
|              | 6             | 12       | A       | B      | C       | D     | E     | 6 | 6 | 6 | 6 | 12 |
| 3/8          | SIM120A       | —        | 19/32   | 29/32  | 2-5/8   | 3-1/4 | 5/16  | • |   | • |   |    |
| 7/16         | SIM140A       | —        | 23/32   | 29/32  | 2-5/8   | 3-1/4 | 11/32 | • |   | • |   |    |
| 1/2          | SIM160A       | SIMD160A | 13/16   | 29/32  | 2-5/8   | 3-1/4 | 3/8   |   | • | • | • | •  |
| 9/16         | SIM180A       | SIMD180A | 7/8     | 29/32  | 2-5/8   | 3-1/4 | 13/32 |   | • | • | • | •  |
| 5/8          | SIM200        | SIMD200A | 31/32   | 29/32  | 2-5/8   | 3-1/4 | 15/32 |   | • | • | • | •  |
| 11/16        | SIM220        | SIMD220A | 1-1/16  | 1-1/16 | 2-5/8   | 3-1/4 | 1/2   |   | • | • | • | •  |
| 3/4          | SIM240        | SIMD240A | 1-1/8   | 1-1/8  | 2-5/8   | 3-1/4 | 9/16  |   | • | • | • | •  |
| 13/16        | SIM260        | SIMD260A | 1-1/4   | 1-1/4  | 2-5/8   | 3-1/4 | 19/32 |   | • | • | • | •  |
| 7/8          | SIM280        | SIMD280A | 1-5/16  | 1-5/16 | 2-3/32  | 3-1/2 | 9/16  |   | • | • | • | •  |
| 15/16        | SIM300        | SIMD300A | 1-3/8   | 1-3/8  | 2-3/32  | 3-1/2 | 3/4   |   | • | • | • | •  |
| 1            | SIM320        | SIMD320A | 1-7/16  | 1-7/16 | 2-7/8   | 3-1/2 | 3/4   |   | • | • | • | •  |
| 1-1/16       | SIM340        | SIMD340A | 1-9/16  | 1-9/16 | 2-11/16 | 3-1/2 | 25/32 |   | • | • |   | •  |
| 1-1/8        | SIM360        | SIMD360A | 1-5/8   | 1-5/8  | 2-11/16 | 3-1/2 | 25/32 |   | • | • |   | •  |
| 1-3/16       | SIM380        | SIMD380A | 1-11/16 | 1-1/2  | 2-11/16 | 3-1/2 | 25/32 |   | • | • |   | •  |
| 1-1/4        | SIM400        | SIMD400A | 1-3/4   | 1-1/2  | 2-11/16 | 3-1/2 | 1     |   | • | • |   | •  |
| 1-5/16       | SIM420H       | —        | 1-7/8   | 1-1/2  | 2-11/16 | 3-1/2 | 15/16 | • |   | • |   |    |
| 1-3/8        | SIM440        | —        | 2       | 1-1/2  | 2-11/16 | 3-1/2 | 15/16 | • |   | • |   |    |
| 1-7/16       | SIM460        | —        | 2       | 1-1/2  | 2-21/32 | 3-1/2 | 15/16 | • |   | • |   |    |
| 1-1/2        | SIM480        | —        | 2-1/8   | 1-9/16 | 2-5/8   | 3-1/2 | 15/16 | • |   | • |   |    |
| 1-9/16       | SIM500        | —        | 2-1/4   | 1-5/8  | 2-5/8   | 3-1/2 | 15/16 | • |   | • |   |    |
| 1-5/8        | SIM520        | —        | 2-3/8   | 1-3/4  | 2-7/8   | 3-1/2 | 15/16 |   |   |   |   |    |

Sets shown include storage tray unless noted.

\*Does not include storage tray.



311IMFSY

## Shallow/Thin Wall, inches

| Socket Depth | Set Contains: |         |         |        |         |       |   |
|--------------|---------------|---------|---------|--------|---------|-------|---|
|              | 6             | A       | B       | C      | D       | E     | 6 |
| 3/8          | IMFS120       | 19/32   | 7/8     | 3/8    | 1-1/2   | 7/32  | • |
| 7/16         | IMFS140       | 11/16   | 7/8     | 9/16   | 1-1/2   | 11/32 | • |
| 1/2          | IMFS160       | 3/4     | 7/8     | 5/8    | 1-1/2   | 3/8   | • |
| 9/16         | IMFS180       | 13/16   | 7/8     | 11/16  | 1-1/2   | 13/32 | • |
| 5/8          | IMFS200       | 29/32   | 29/32   | 3/4    | 1-1/2   | 15/32 | • |
| 11/16        | IMFS220       | 1       | 1       | 13/16  | 1-1/2   | 1/2   | • |
| 3/4          | IMFS240       | 1-1/16  | 1-1/16  | 13/16  | 1-1/2   | 1/2   | • |
| 13/16        | IMFS260       | 1-1/8   | 1-1/8   | 25/32  | 1-1/2   | 1/2   | • |
| 7/8          | IMFS280       | 1-7/32  | 1-7/32  | 29/32  | 1-1/2   | 9/16  | • |
| 15/16        | IMFS300       | 1-5/16  | 1-5/16  | 1-3/16 | 1-17/32 | 3/4   | • |
| 1            | IMFS320       | 1-3/8   | 1-3/8   | 1-3/16 | 1-9/16  | 3/4   | • |
| 1-1/16       | IMFS340       | 1-7/16  | 1-7/16  | 1-1/4  | 1-11/16 | 13/16 |   |
| 1-1/8        | IMFS360       | 1-1/2   | 1-1/2   | 1-1/4  | 1-3/4   | 13/16 |   |
| 1-3/16       | IMFS380       | 1-5/8   | 1-5/8   | 1-1/4  | 1-3/4   | 13/16 |   |
| 1-1/4        | IMFS400       | 1-11/16 | 1-11/16 | 1-1/4  | 1-7/8   | 13/16 |   |
| 1-5/16       | IMFS420       | 1-3/4   | 1-3/4   | 1-1/4  | 1-7/8   | 13/16 |   |
| 1-3/8        | IMFS440       | 1-13/16 | 1-13/16 | 1-1/4  | 2-1/16  | 13/16 |   |
| 1-7/16       | IMFS460       | 1-15/16 | 1-3/4   | 1-3/8  | 2-1/16  | 13/16 |   |
| 1-1/2        | IMFS480       | 2       | 2       | 1-3/8  | 2-1/16  | 13/16 |   |

Set shown includes storage tray.

1/2" DRIVE TOOLS



• Read safety precautions on pages W1 to W4

# FLANK DRIVE® IMPACT SOCKETS



SIMML150

## Extra-Deep, mm

| mm | Stock No. | A    | B    | C     | D     | E    |
|----|-----------|------|------|-------|-------|------|
| 15 | SIMML150  | 23.2 | 26.4 | 110.2 | 127.0 | 10.7 |
| 18 | SIMML180  | 26.8 | 26.8 | 54.8  | 127.0 | 12.7 |

### SIMML180 1/2" Drive 6-Point Metric 18 mm Flank Drive®

#### Extra-Deep Impact Socket

- Applications include the removal and installation of the fuel tank hold down strap on International® 4400 chassis
- The fuel tank must be removed to replace the fuel sending unit
- 5" long to reach through the frame to access the fastener without the need of an extension



SIML200

## Extra-Deep, inches

- Applications include removing or replacing fuel tank retaining strap nuts
- Also has applications for emergency brake adjustment nuts and stabilizer retainers

| 1/2"   | 6        | A      | B      | C     | D | E     |
|--------|----------|--------|--------|-------|---|-------|
| 1/2    | SIML160* | 25/32  | 15/16  | 4-1/4 | 5 | 3/8   |
| 9/16   | SIML180  | 7/8    | 15/16  | 4-1/4 | 5 | 13/32 |
| 5/8    | SIML200  | 31/32  | 1      | 4-1/4 | 5 | 15/32 |
| 11/16  | SIML220  | 1-1/16 | 1-1/16 | 4-1/4 | 5 | 1/2   |
| 3/4    | SIML240  | 1-1/8  | 1-1/8  | 4-1/4 | 5 | 9/16  |
| 13/16  | SIML260  | 1-1/4  | 1-1/4  | 4-1/4 | 5 | 19/32 |
| 7/8    | SIML280  | 1-5/16 | 1-5/16 | 4-1/4 | 5 | 21/32 |
| 15/16  | SIML300  | 1-3/8  | 1-3/8  | 4-1/4 | 5 | 23/32 |
| 1      | SIML320  | 1-7/16 | 1-7/16 | 4-3/8 | 5 | 3/4   |
| 1-1/16 | SIML340  | 1-9/16 | 1-9/16 | 4-3/8 | 5 | 25/32 |
| 1-1/8  | SIML360  | 1-5/8  | 1-5/8  | 4-3/8 | 5 | 25/32 |
| 1-1/4  | SIML402  | 1-3/4  | 1-3/4  | 5-1/8 | 6 | 1     |

\*ASME/ANSI® B107.2



SIMMF21A

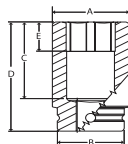
## Extra-Deep/Thin Wall, mm

- Sockets are 34% thinner than a standard thin wall socket
- Used to access the nut on long studs and other hard-to-reach areas
- Ideal for wheel lugs

| Size, mm | Stock No. | A    | B    | C    | D    | E    |
|----------|-----------|------|------|------|------|------|
| 14       | SIMMF14A  | 20.6 | 23.8 | 50.8 | 76.2 | 25.4 |
| 17       | SIMMF17A  | 23.8 | 23.8 | 50.8 | 76.2 | 25.4 |
| 19       | SIMMF19A  | 26.2 | 28.6 | 40.5 | 76.2 | 19   |
| 21       | SIMMF21A  | 28.6 | 28.6 | 50.8 | 76.2 | 25.4 |
| 22       | SIMMF22A  | 30.2 | 30.2 | 50.8 | 76.2 | 25.4 |



SIMDM360TW



## Deep/Thin Wall, mm

| mm | Stock No.  | A    | B    | C    | D    | E    |
|----|------------|------|------|------|------|------|
| 36 | SIMDM360TW | 47.2 | 44.5 | 72.8 | 88.9 | 22.9 |

### SIMDM360TW 1/2" Drive 6-Point Metric 36 mm Flank Drive® Deep Pinion Flange Nut Impact Socket

- Thin-wall design provides extra room needed to remove and install the differential pinion flange nut on the 2012 Chevy® Camaro® (USA) and Holden® Commodore (Australia) vehicles

# FLANK DRIVE® IMPACT SWIVEL SOCKETS

1/2" DRIVE TOOLS

## Shallow Swivel, mm

| mm | Set Contains: |          | A    | B    | C    | D    | E    | 312IPLM |   | 307IPLMY |  |
|----|---------------|----------|------|------|------|------|------|---------|---|----------|--|
|    | 6             | 12       |      |      |      |      |      | 6       | 6 |          |  |
| 10 | IPLM10C       | —        | 15.5 | 26.8 | 26.8 | 69.3 | 9.7  | •       |   |          |  |
| 11 | IPLM11C       | —        | 17.5 | 26.8 | 26.8 | 69.3 | 9.7  | •       |   |          |  |
| 12 | IPLM12C       | IPDLM12  | 18.0 | 26.8 | 26.8 | 69.3 | 9.7  | •       |   |          |  |
| 13 | IPLM13C       | IPDLM13A | 19.7 | 26.8 | 26.8 | 69.3 | 9.7  | •       |   |          |  |
| 14 | IPLM14C       | —        | 21.3 | 26.8 | 26.8 | 69.3 | 9.7  | •       | • |          |  |
| 15 | IPLM15C       | —        | 23.0 | 31.9 | 31.9 | 69.3 | 9.7  | •       | • |          |  |
| 16 | IPLM16C       | IPDLM16A | 24.4 | 31.9 | 31.9 | 71.1 | 10.4 | •       |   |          |  |
| 17 | IPLM17C       | IPDLM17A | 25.3 | 31.9 | 31.9 | 71.1 | 10.4 | •       |   |          |  |
| 18 | IPLM18C       | IPDLM18A | 26.5 | 31.9 | 31.9 | 71.1 | 10.4 | •       | • |          |  |
| 19 | IPLM19C       | —        | 26.8 | 31.9 | 31.9 | 71.1 | 11.2 | •       | • |          |  |
| 21 | IPLM21C       | —        | 30.0 | 31.9 | 31.9 | 71.1 | 12.7 | •       | • |          |  |
| 22 | IPLM22C       | —        | 32.4 | 31.9 | 31.9 | 74.4 | 14.2 |         |   |          |  |
| 24 | IPLM24C       | —        | 34.0 | 31.9 | 31.9 | 74.4 | 15.0 | •       | • |          |  |

Sets shown include storage tray.



## Semi-Deep Swivel, mm

| mm | 6      | A    | B    | C    | D    | E    |
|----|--------|------|------|------|------|------|
| 15 | IPSM15 | 23.0 | 31.9 | 31.9 | 80.6 | 9.7  |
| 18 | IPSM18 | 26.5 | 31.9 | 31.9 | 82.4 | 10.4 |
| 21 | IPSM21 | 30.0 | 31.9 | 31.9 | 82.4 | 12.7 |
| 22 | IPSM22 | 32.4 | 31.9 | 31.9 | 82.4 | 14.2 |



IPSM21



SIP18A

### IPSM21 1/2" Drive 6-Point Metric 21 mm Flank Drive® Semi-Deep Swivel Impact Socket

- Used to remove pinion nuts on 2003 GM® and 2004 Dodge® trucks with 11.5 AAM axles
- Other uses include Duramax® diesel front crankshaft bolts and late-model BMW® axle shafts

## Deep Swivel, inches

|      | 6      | A      | B      | C      | D       | E    |
|------|--------|--------|--------|--------|---------|------|
| 9/16 | SIP18A | 7/8    | 1-1/16 | 1-1/16 | 3-1/2   | 5/16 |
| 3/4  | SIP24A | 1-1/16 | 1-1/16 | 1-1/16 | 3-31/32 | 7/16 |

## Shallow Swivel, inches

| Inch   | Set Contains: |        | A       | B      | C      | D       | E     | 312IPL |   | 307IPLY |  |
|--------|---------------|--------|---------|--------|--------|---------|-------|--------|---|---------|--|
|        | 6             | 12     |         |        |        |         |       | 6      | 6 |         |  |
| 1/2    | IPL16C        | IPDL16 | 25/32   | 1-1/32 | 1-1/32 | 2-3/4   | 5/16  | •      |   |         |  |
| 9/16   | IPL18C        | —      | 27/32   | 1-1/32 | 1-1/32 | 2-3/4   | 5/16  | •      | • |         |  |
| 5/8    | IPL20C        | IPDL20 | 31/32   | 1-1/16 | 1-1/16 | 2-3/4   | 5/16  | •      | • |         |  |
| 11/16  | IPL22C        | —      | 1-1/16  | 1-1/16 | 1-1/16 | 2-13/16 | 13/32 | •      | • |         |  |
| 3/4    | IPL24C        | —      | 1-1/8   | 1-1/16 | 1-1/16 | 2-13/16 | 7/16  | •      | • |         |  |
| 13/16  | IPL26C        | —      | 1-3/16  | 1-1/16 | 1-1/16 | 2-13/16 | 1/2   | •      |   |         |  |
| 7/8    | IPL28C        | —      | 1-9/32  | 1-1/16 | 1-1/16 | 2-15/16 | 17/32 | •      | • |         |  |
| 15/16  | IPL30C        | —      | 1-11/32 | 1-1/16 | 1-1/16 | 2-15/16 | 19/32 | •      | • |         |  |
| 1      | IPL32C        | —      | 1-11/32 | 1-1/16 | 1-1/16 | 2-15/16 | 21/32 | •      |   |         |  |
| 1-1/16 | IPL34C        | —      | 1-7/16  | 1-1/16 | 1-1/16 | 2-15/16 | 11/16 | •      |   |         |  |
| 1-1/8  | IPL36C        | —      | 1-9/16  | 1-1/16 | 1-1/16 | 3-1/8   | 3/4   | •      | • |         |  |
| 1-3/16 | IPL38C        | —      | 1/1/16  | 1-1/4  | 1-1/4  | 3-3/8   | 23/32 | •      |   |         |  |
| 1-1/4  | IPL40C        | —      | 1-5/8   | 1-1/16 | 1-1/16 | 3-3/16  | 25/32 |        |   |         |  |
| 1-5/16 | IPL42C        | —      | 1-3/4   | 1-1/16 | 1-1/16 | 3-3/16  | 7/8   |        |   |         |  |

Sets shown include storage tray.

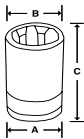


• Read safety precautions on pages W1 to W4

## SPECIAL APPLICATION IMPACT SOCKETS



IMSLE240



### TORX®/Shallow Impact

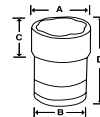
| #   | Stock No. | A      | B      | C     |
|-----|-----------|--------|--------|-------|
| E18 | IMSLE180  | 29/32  | 29/32  | 1-1/2 |
| E20 | IMSLE200  | 15/16  | 15/16  | 1-1/2 |
| E24 | IMSLE240  | 1-1/16 | 1-1/16 | 1-1/2 |

#### IMSLE240 1/2" Drive TORX® E24 Shallow Impact Socket

- Used for front axle nut on M, C, E and S Class Mercedes-Benz® vehicles



305TTWYA



### Twist/Shallow, inches

- Removes rounded/damaged fasteners

| #     | Stock No. | A      | B      | C | D     |
|-------|-----------|--------|--------|---|-------|
| 3/4   | TTWY241A  | 1-1/32 | 1      | 1 | 1-5/8 |
| 13/16 | TTWY261A  | 1-1/8  | 1      | 1 | 1-5/8 |
| 7/8   | TTWY281A  | 1-3/16 | 1-1/16 | 1 | 1-5/8 |
| 15/16 | TTWY301A  | 1-1/4  | 1-3/16 | 1 | 1-5/8 |
| 1     | TTWY321A  | 1-5/16 | 1-1/4  | 1 | 1-5/8 |

#### 305TTWYA 5 pc 1/2" Drive SAE Shallow Twist Impact Socket Set (Blue-Point®)

- Includes (5) TTWY241A–TTWY321A (3/4–1")



IMSLEPL240

### Low-Profile TORX Plus® Impact (1/2")

#### IMSLEPL240 1/2" Drive 24EPL TORX Plus® Low-Profile Impact Socket

- Impact rated TORX Plus® socket
- Low profile geometry for use with low profile fasteners
- Manufactured from special steel with higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability



SPS10A

### Shackle Pin

Designed with an oval configuration to service shackle pins on International® and Kenworth® semitrucks.

#### SPS10A 1/2" Drive SAE 41/64" Shackle Pin Impact Socket

- Designed with an oval configuration to service shackle pins on International® and Kenworth® semitrucks

#### SPS11A 1/2" Drive SAE 21/32 x 1-17/32" Shackle Pin Impact Socket

- 21/32 x 1-17/32 x 1-3/4" long

#### SPS12 1/2" Drive SAE 3/4 x 1-9/32" Shackle Pin Impact Socket

- Manufactured from special billet alloy steel, and heat treated for optimum strength and durability
- Impact rated 1/2" drive
- Socket opening is 3/4 x 1-9/32"; 1-3/4" long

#### SPS13 Spring Shackle Pin Socket

- Manufactured from special alloy steel, precision machined and heat treated for optimum strength and durability
- Hardened pins for engaging shackle pin

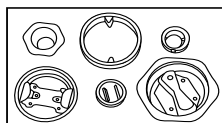


A172A

### Drum Plug Socket

#### A172A 1/2" Drive Drum Plug Socket

- One socket removes virtually all screw-in drum plugs or caps
- Spring-loaded inner wrench handles smaller plugs and recesses automatically when removing large plugs
- Use with a 1/2" drive ratchet or impact wrench



## Crankshaft Bolt Socket

### S6324 1/2" Drive 6-Point Metric 24 mm Crankshaft Bolt Impact Socket

- Used for removing and installing crankshaft bolts on Audi® A4®, A6® and A8® vehicles
- Socket is 1/2" drive 24 mm and overall length is 2" which is critical to the crank shaft bolt application
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- Flank Drive® wrenching system grips fastener on the flanks/flats, increasing torque by 15–20% while preventing the fastener from rounding, and increasing the life of the socket



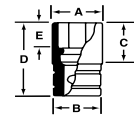
S6324



DPSM16



SIMDM360TW



## Shallow/10-Point, mm

| mm | 10     | A    | B    | D    | E    |
|----|--------|------|------|------|------|
| 16 | DPSM16 | 24.6 | 24.6 | 38.1 | 11.9 |

### DPSM16 1/2" Drive 10-Point Metric 16 mm Shallow Impact Socket

- Used for removing the rear lower control arm bolts on 2001 and newer Honda® Civic® and Acura® RSX vehicles
- Forged from tough alloy steel
- Heat treated to a lower hardness to add impact resistance and ductility

## Deep/Thin Wall, mm

| mm | 6          | A    | B    | C    | D    | E    |
|----|------------|------|------|------|------|------|
| 36 | SIMDM360TW | 47.2 | 44.5 | 72.8 | 88.9 | 22.9 |

### SIMDM360TW 1/2" Drive 6-Point Metric 36 mm Flank Drive® Deep Pinion Flange Nut Impact Socket

- Thin-wall design provides extra room needed to remove and install the differential pinion flange nut on the 2012 Chevy® Camaro® (USA) and Holden® Commodore (Australia) vehicles

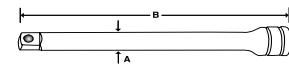
## POWER ACCESSORIES

### Extensions/Lock Button, Industrial

| Stock No. | A   | B     |
|-----------|-----|-------|
| PS2       | 5/8 | 2     |
| PS3       | 5/8 | 3-1/2 |
| PS5       | 5/8 | 5     |
| PS10      | 5/8 | 10    |



PS10

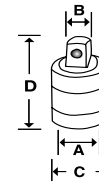


### Adaptors (Power)

| Stock No. | Socket Attachment | A   | B   | C   | D      |
|-----------|-------------------|-----|-----|-----|--------|
| PA2A      | Pin Type          | 3/8 | 1/2 | 3/4 | 1-5/16 |



PA2A



### Hex Shanks (Power)

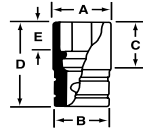
| Stock No. | Socket Attachment | A   | B    | C     | D     |
|-----------|-------------------|-----|------|-------|-------|
| A3011A    | Pin Type          | 1/2 | 7/16 | 1-1/4 | 2-3/4 |



A3011A



## POWER SOCKETS



SPM19

### Deep, mm, Industrial

| mm | 6     | A    | B    | C    | D    | E    |
|----|-------|------|------|------|------|------|
| 17 | SPM17 | 24.6 | 24.6 | 66.6 | 82.6 | 12.7 |
| 19 | SPM19 | 26.4 | 26.4 | 64.8 | 82.6 | 11.9 |
| 21 | SPM21 | 28.3 | 28.3 | 64.8 | 82.6 | 12.3 |

### Double Square/Shallow, inches, Industrial



P412

| II    | 8    | A       | B      | C      | D     | E     |
|-------|------|---------|--------|--------|-------|-------|
| 3/8"  | P412 | 13/32   | 7/8    | 7/8    | 1-1/2 | 5/16  |
| 7/16  | P414 | 13/16   | 15/16  | 7/8    | 1-1/2 | 3/8   |
| 1/2   | P416 | 29/32   | 1      | 7/8    | 1-1/2 | 5/16  |
| 9/16  | P418 | 1       | 1-1/8  | 7/8    | 1-1/2 | 1/2   |
| 5/8   | P420 | 1-3/32  | 1-3/16 | 7/8    | 1-1/2 | 1/2   |
| 11/16 | P422 | 1-7/32  | 1-1/4  | 7/8    | 1-1/2 | 13/32 |
| 3/4   | P424 | 1-5/16  | 1-3/8  | 7/8    | 1-1/2 | 9/16  |
| 13/16 | P426 | 1-7/16  | 1-7/16 | 7/8    | 1-1/2 | 5/8   |
| 7/8   | P428 | 1-1/2   | 1-1/2  | 1-1/32 | 1-3/4 | 5/8   |
| 1     | P432 | 1-23/32 | 1-3/4  | 1-1/8  | 1-3/4 | 3/4   |



SIPR426

### Double Square/Deep, inches, Industrial

| II    | 8       | A       | B       | C       | D     | E     |
|-------|---------|---------|---------|---------|-------|-------|
| 13/16 | SIPR426 | 1-7/16  | 1-3/8   | 2-9/16  | 3-1/4 | 5/8   |
| 1     | SIPR432 | 1-3/4   | 1-1/2   | 2-11/16 | 3-1/2 | 3/4   |
| 1-1/8 | SIPR436 | 1-15/16 | 1-51/64 | 2-23/32 | 3-1/2 | 27/32 |



SIPRL436

### Double Square/Extra-Deep, inches, Industrial

| II    | 8        | A       | B     | C       | D | E     |
|-------|----------|---------|-------|---------|---|-------|
| 1-1/8 | SIPRL436 | 1-15/16 | 1-1/2 | 4-13/32 | 5 | 27/32 |



MPK121A

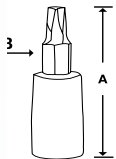
### Shallow Magnetic, inches, Industrial

| II   | 6       | A     | B     | C     | D    |
|------|---------|-------|-------|-------|------|
| 3/8" | MPK121A | 19/32 | 7/8   | 1-1/2 | 1/8  |
| 7/16 | MPK141A | 11/16 | 7/8   | 1-1/2 | 5/32 |
| 1/2  | MPK161A | 25/32 | 15/16 | 1-1/2 | 5/32 |
| 9/16 | MPK181A | 7/8   | 15/16 | 1-1/2 | 5/32 |

## POWER BIT SOCKETS



PSTX50E





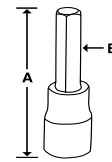
### TORX®/Standard (Power), Industrial (1/2")

| #   | Stock No. | A      | B        |
|-----|-----------|--------|----------|
| T45 | PSTX45E   | 2-7/16 | FTX45E2  |
| T50 | PSTX50E   | 2-7/16 | FTX50E2  |
| T50 | PSTX500E* | 2-7/16 | FTX500E2 |
| T55 | PSTX55E   | 2-7/16 | FTX55E2  |

\*GM® style



**Hex/Standard (Power), inches, Industrial (1/2")**

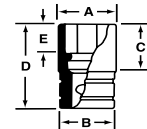
|  |  | A      | B        |
|---|---|--------|----------|
| 5/16  | PSA10E  | 2-7/16 | FA10E2   |
| 3/8   | PSA12E  | 2-9/16 | SA12E2   |
| 7/16  | PSA14E  | 2-7/8  | SA14E2   |
| 1/2   | PSA16E  | 3-1/16 | SA16E2   |
| 9/16  | PSA18E  | 3-1/8  | SA18E2   |
| 5/8   | PSA20E  | 3-7/16 | LAW120E2 |
| 3/4   | PSA24E  | 4-1/16 | LAW124E2 |



**SURFACE DRIVE SOCKETS**



**Shallow, mm, Natural**

|  |  | A    | B    | C    | D    | E    |
|---|---|------|------|------|------|------|
| 15  | DTM15A  | 22.3 | 22.9 | 21.3 | 38.1 | 10.7 |





**Deep, mm, Natural**

Surface drive sockets will engage with a fastener while rotating on a power nut runner

|  |  | A    | B    | C    | D    | E    |
|--|--|------|------|------|------|------|
| 13   | DTSM13A  | 19.3 | 21.8 | 65.8 | 82.6 | 10.2 |
| 15   | DTSM15A  | 22.3 | 21.8 | 65.8 | 82.6 | 10.7 |



**Deep, inches, Natural**



|  |  | A     | B     | C       | D     | E     |
|---|---|-------|-------|---------|-------|-------|
| 1/2   | DTS16A  | 3/4   | 29/32 | 2-19/32 | 3-1/4 | 13/32 |
| 9/16  | DTS18A  | 13/16 | 29/32 | 2-19/32 | 3-1/4 | 13/32 |



**Surface Drive (M-Series)**

- Snap-on® M-Series sockets offer a precise fit, optimum hardness, durability, ring-groove and pin hole for use on a variety of industrial fastening applications
- M-Series sockets feature surface drive technology to ensure a long service life

- Used in the industrial market for assembly line work
- The lead-in chamfer and special design of these sockets will engage with a fastener while rotating on a power nut runner

|  |  | A    | B    | C    | D    | E    |
|---|---|------|------|------|------|------|
| 11  | M3111   | 16.6 | 23.6 | 19.1 | 38.1 | 8.1  |
| 13  | M3113   | 22.0 | 23.6 | 19.1 | 38.1 | 9.7  |
| 15  | M3115   | 23.6 | 23.6 | 21.3 | 38.1 | 12.4 |
| 15  | M3215   | 23.6 | 23.6 | 40.4 | 57.2 | 12.4 |
| 18  | M3118   | 28.4 | 28.4 | 21.3 | 38.1 | 11.2 |



• Do not use chrome or industrial finish hand tools with impact drivers  
 • Read safety precautions on pages W1 to W4

## GENERAL SERVICE SETS



344AMB



360MB

### 12-Point, Inches, Chrome



#### 44 pc 1/2" Drive 6-/12-Point SAE Shallow/Deep/ Universal General Service Socket Set




- Includes (16) 12-point Shallow Sockets (3/8–1-5/16")
- Includes (11) 12-point Deep Sockets (1/2–1-1/8")
- Includes (7) 6-point Universal Sockets (9/16–15/16")
- Includes Ratchet Spinner, Speeder, Universal Joint, Sliding T-Handle, Ratcheting Adaptor, Dual 80° Technology Standard Handle Ratchet, 18" Breaker Bar, 2" Extension, 5" Knurled Extension and 11" Knurled Extension

### 6/12-Point, Inches, Chrome

#### 59 pc 1/2" Drive 6-/12-Point SAE Shallow/Deep/ Universal General Service Socket Set

- Includes (16) 12-point Shallow Sockets (3/8–1-5/16")
- Includes (11) 6-point Deep Sockets (1/2–1-1/8")
- Includes (10) 12-point deep sockets (1/2–1-1/16")
- Includes (7) 6-point Universal Sockets (9/16–15/16")
- Includes Ratchet Spinner, Speeder, Universal Joint, Sliding T-Handle, Ratcheting Adaptor, Dual 80° Technology Standard Handle Ratchet, 18" Breaker Bar, 2" Extension, 5" Knurled Extension, 11" Knurled Extension, 3-1/2" Extension and 1/4–1/2" capacity Stud Remover
- Includes metal box

|  12-Point Shallow Sockets |        |  12-Point Deep Sockets |       |
|---|--------|--|-------|
| 3/8"  | SW121A | 1/2"   | S161A |
| 7/16"   | SW141A | 9/16"  | S181A |
| 1/2"  | SW161A | 5/8"   | S201  |
| 9/16"   | SW181A | 11/16"   | S221  |
| 5/8"  | SW201  | 3/4"   | S241  |
| 11/16"  | SW221  | 13/16"   | S261  |
| 3/4"  | SW241  | 7/8"   | S281  |
| 13/16"  | SW261  | 15/16"   | S301  |
| 7/8"  | SW281  | 1"   | S321  |
| 15/16"  | SW301  | 1-1/16"  | S341  |
| 1"  | SW321  | 1-1/8"   | S361  |
| 1-1/16"   | SW341  |  |       |
| 1-1/8"  | SW361  |  |       |
| 1-3/16"   | SW381  |  |       |
| 1-1/4"  | SW401  |  |       |
| 1-5/16"   | SW421  |  |       |

|  12-Point Shallow Sockets |        |  6-Point Deep Sockets |  12-Point Deep Sockets |         |       |
|---|--------|---|--|---------|-------|
| 3/8"  | SW121A | 1/2"  | TS161A   | 1/2"    | S161A |
| 7/16"   | SW141A | 9/16"   | TS181A   | 9/16"   | S181A |
| 1/2"  | SW161A | 5/8"  | TS201  | 5/8"    | S201  |
| 9/16"   | SW181A | 11/16"  | TS221  | 11/16"  | S221  |
| 5/8"  | SW201  | 3/4"  | TS241  | 3/4"    | S241  |
| 11/16"  | SW221  | 13/16"  | TS261  | 13/16"  | S261  |
| 3/4"  | SW241  | 7/8"  | TS281  | 7/8"    | S281  |
| 13/16"  | SW261  | 15/16"  | TS301  | 15/16"  | S301  |
| 7/8"  | SW281  | 1"  | TS321  | 1"      | S321  |
| 15/16"  | SW301  | 1-1/16"   | TS341  | 1-1/16" | S341  |
| 1"  | SW321  | 1-1/8"  | TS361  |         |       |
| 1-1/16"   | SW341  |   |  |         |       |
| 1-1/8"  | SW361  |   |  |         |       |
| 1-3/16"   | SW381  |   |  |         |       |
| 1-1/4"  | SW401  |   |  |         |       |
| 1-5/16"   | SW421  |   |  |         |       |

| 6-Point Universal Socket Set | 307SUY | 9/16–15/16" (7 pc)                                |
|------------------------------|--------|---|
| Also Includes:               | LRS70A | 1/2" Drive Ratchet Spinner                        |
|                              | S4     | 1/2" Drive 18-7/8" Speeder Drive Handle           |
|                              | S8     | 1/2" Drive 2-11/16" Friction Ball Universal Joint |
|                              | S12L   | 1/2" Drive 12" Sliding T-Handle                   |
|                              | S77A   | Ratchet Adaptor                                   |
|                              | S80A   | Standard Handle Ratchet                           |
|                              | SN18B  | 1/2" Drive 18" Standard Handle Breaker Bar        |
|                              | SX2    | 1/2" Drive 2" Extension                           |
|                              | SXK5   | 1/2" Drive 5" Extension                           |
|                              | SXK11  | 1/2" Drive 11" Extension                          |


| 6-Point Universal Socket Set | 307SUY | 9/16–15/16" (7 pc)                                |
|------------------------------|--------|---|
| Also Includes:               | S12L   | 1/2" Drive 12" Sliding T-Handle                   |
|                              | S77A   | Ratchet Adaptor                                   |
|                              | SN18B  | 1/2" Drive 18" Standard Handle Breaker Bar        |
|                              | SX2    | 1/2" Drive 2" Extension                           |
|                              | SXK3   | 1/2" Drive 3-1/2" Extension                       |
|                              | SXK5   | 1/2" Drive 5" Extension                           |
|                              | SXK11  | 1/2" Drive 11" Extension                          |
|                              | LRS70A | 1/2" Drive Ratchet Spinner                        |
|                              | S80A   | Standard Handle Ratchet                           |
|                              | S4     | 1/2" Drive 18-7/8" Speeder Drive Handle           |
|                              | S8     | 1/2" Drive 2-11/16" Friction Ball Universal Joint |





**345MMB**


**12-Point, mm, Chrome**

|  12 Point Socket Sets | Also Includes: | Part Number  | Description                                       |
|--|----------------|--------------|---|
| (23 pc) (10–32)  |                | <b>S4</b>    | 1/2" Drive 18-7/8" Speeder Drive Handle           |
| (13 pc) (12–24)  |                | <b>S8</b>    | 1/2" Drive 2-11/16" Friction Ball Universal Joint |
|  |                | <b>S12L</b>  | 1/2" Drive 12" Sliding T-Handle                   |
|  |                | <b>S77A</b>  | Ratchet Adaptor                                   |
|  |                | <b>SN18B</b> | 1/2" Drive 18" Standard Handle Breaker Bar        |
|  |                | <b>SXK3</b>  | 1/2" Drive 3-1/2" Extension                       |
|  |                | <b>SXK5</b>  | 1/2" Drive 5" Extension                           |
|  |                | <b>SXK11</b> | 1/2" Drive 11" Extension                          |



**317MSPC**


**6-Point, Inches, Chrome**

|  6-Point Shallow Sockets | Also Includes: | Part Number  | Description                                |
|---|----------------|--------------|--|
| 3/8"  |                | <b>SXK5</b>  | 1/2" Drive 5" Extension                    |
| 7/16  |                | <b>SXK11</b> | 1/2" Drive 11" Extension                   |
| 1/2   |                | <b>SN18B</b> | 1/2" Drive 18" Standard Handle Breaker Bar |
| 9/16  |                | <b>S80A</b>  | Standard Handle Ratchet                    |
| 5/8   |                |              |  |
| 11/16   |                |              |  |
| 3/4   |                |              |  |
| 13/16   |                |              |  |
| 7/8   |                |              |  |
| 15/16   |                |              |  |
| 1   |                |              |  |
| 1-1/16  |                |              |  |
| 1-1/8   |                |              |  |



**317AMMPC**

**Shallow, mm, Chrome**

|  6-Point Shallow Sockets | Also Includes: | Part Number  | Description                                |
|---|----------------|--------------|--|
| 12  |                | <b>SXK5</b>  | 1/2" Drive 5" Extension                    |
| 13  |                | <b>SXK11</b> | 1/2" Drive 11" Extension                   |
| 14  |                | <b>SN18B</b> | 1/2" Drive 18" Standard Handle Breaker Bar |
| 15  |                | <b>S80A</b>  | Standard Handle Ratchet                    |
| 16  |                |              |  |
| 17  |                |              |  |
| 18  |                |              |  |
| 19  |                |              |  |
| 20  |                |              |  |
| 21  |                |              |  |
| 22  |                |              |  |
| 23  |                |              |  |
| 24  |                |              |  |

**12-Point, Inches, Chrome**

**317MPC 17 pc 1/2" Drive 12-Point SAE General Service Socket Set**

- Includes (13) Sockets (3/8–1-5/16"), 5" Extension, 11" Extension, 18" Breaker Bar and Standard Handle Ratchet
- Includes storage tray



**317MPC**



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

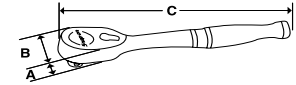
## RATCHETS, HANDLES AND ACCESSORIES (Blue-Point®)



BPRSR940



BPRSR940SG



### Quick-Release Ratchets (Blue-Point®) (1/2")

| Stock No.  | Description  | Gear Teeth | Swing Arc | A     | B       | C     | Repair Kit   |
|------------|--|------------|-----------|-------|---------|-------|--------------|
| BPRSR940   | 1/2" Drive Standard Handle Quick-Release Ratchet (Blue-Point®)           | 40         | 9°        | 23/32 | 1-23/32 | 9-7/8 | RKRBPBRSR940 |
| BPRSR940SG | 1/2" Drive Soft Grip Standard Handle Quick-Release Ratchet (Blue-Point®) | 40         | 9°        | 23/32 | 1-23/32 | 9-7/8 | RKRBPBRSR940 |

ASME®/ANSI® B107.10

### BPR703 3 pc Standard Handle Quick-Release Ratchet Set (Blue-Point®)

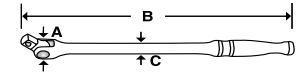
- 1/4" Drive BPRTR936, 3/8" Drive BPRFR938 and 1/2" Drive BPRSR940 Ratchets (3 pc) in a storage tray



BLPBB1215



BLPBB1224



### Breaker Bars (Blue-Point®) (1/2")

| Stock No.  | Description                              | A      | B     | C       |
|------------|--|--------|-------|---------|
| BLPBB1215  | 1/2" Drive 15" Breaker Bar               | 1-1/8  | 15    | 3/4     |
| BLPBB1224† | 1/2" Drive 12–24" Adjustable Breaker Bar | 1-1/16 | 12–24 | 5/8–7/8 |



S13TURBO



SXLBP3



SXLBP10

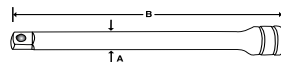


### Turbo T-Handle (Blue-Point®)

| Stock No. | Description  | Handle Type    |
|-----------|--|----------------|
| S13TURBO  | 1/2" Square Drive Turbo Speed T-Handle (Blue-Point®) | Turbo T-Handle |



BLPEXTK123



### Knurled Extensions, Chrome (Blue-Point®)

| Stock No.   | B  |
|-------------|----|
| BLPEXTK123  | 3  |
| BLPEXTK126  | 6  |
| BLPEXTK1210 | 10 |

### Locking Extensions, Chrome (Blue-Point®)

| Stock No. | B  |
|-----------|----|
| SXLBP3    | 3  |
| SXLBP6    | 6  |
| SXLBP10   | 10 |

Set shown includes storage tray.



BLPEXTL1212

### Extra-Long Locking Extensions (Blue-Point®)

- Smooth, durable chrome finish
- Made from tough 6130 steel
- Secure socket retention
- Do not use with power or impact tools

Set Contains:

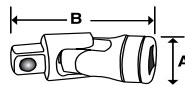
BLPEXT303

| Stock No.   | Description   | B      |   |
|-------------|---|--------|---|
| BLPEXTL1212 | 1/2" Drive 12" Extra-Long Locking Extension (Blue-Point®) | 12-1/8 | • |
| BLPEXTL1218 | 1/2" Drive 18" Extra-Long Locking Extension (Blue-Point®) | 18     | • |
| BLPEXTL1224 | 1/2" Drive 24" Extra-Long Locking Extension (Blue-Point®) | 24     | • |

Set includes storage tray.



BLPUJ12



### Universal Joints, Chrome (Blue-Point®)

| Stock No. | B     |
|-----------|-------|
| BLPUJ12   | 2-3/4 |

# SOCKETS (Blue-Point®)

1/2" DRIVE TOOLS

## Shallow, mm, Chrome (Blue-Point®)

| mm | 6         | Length |
|----|-----------|--------|
| 12 | BLPSM1212 | 38.1   |
| 13 | BLPSM1213 | 38.1   |
| 14 | BLPSM1214 | 38.1   |
| 15 | BLPSM1215 | 38.1   |
| 16 | BLPSM1216 | 38.1   |
| 17 | BLPSM1217 | 38.1   |
| 18 | BLPSM1218 | 38.1   |
| 19 | BLPSM1219 | 38.1   |
| 20 | BLPSM1220 | 38.1   |
| 21 | BLPSM1221 | 38.1   |
| 22 | BLPSM1222 | 38.1   |
| 24 | BLPSM1223 | 38.1   |
| 24 | BLPSM1224 | 38.1   |
| 24 | BLPSM1227 | 38.1   |
| 24 | BLPSM1230 | 38.1   |
| 24 | BLPSM1232 | 38.1   |



BLPSM1216

## Shallow, Inches, Chrome (Blue-Point®)

|        | 6           | Length |
|--------|-------------|--------|
| 3/8"   | BLPS1238    | 1-1/2  |
| 7/16   | BLPS12716   | 1-1/2  |
| 1/2    | BLPS1212    | 1-1/2  |
| 9/16   | BLPS12916   | 1-1/2  |
| 5/8    | BLPS1258    | 1-1/2  |
| 11/16  | BLPS121116  | 1-1/2  |
| 3/4    | BLPS1234    | 1-1/2  |
| 13/16  | BLPS121316  | 1-1/2  |
| 7/8    | BLPS1278    | 1-1/2  |
| 15/16  | BLPS121516  | 1-9/16 |
| 1      | BLPS121     | 1-9/16 |
| 1-1/16 | BLPSB121116 | 1-9/16 |
| 1-1/8  | BLPSB12118  | 1-3/4  |
| 1-3/16 | BLPSB121316 | 1-3/4  |
| 1-1/4  | BLPSB12114  | 1-3/4  |



BLPS1234

## TORX®/External, Chrome (Blue-Point®)

| #   | Stock No. | Length, inches |
|-----|-----------|----------------|
| E18 | BLPTE1218 | 1-1/2          |
| E20 | BLPTE1220 | 1-1/2          |
| E22 | BLPTE1222 | 1-1/2          |
| E24 | BLPTE1224 | 1-1/2          |



BLPTE1220

## TORX® BIT SOCKETS (Blue-Point®)



BLPTL1255



BLPT1255



BLPTL1255TP



BLPT1255TP

## TORX®/Standard (Blue-Point®)

|          | #   | Stock No. | Length, inches |
|----------|-----|-----------|----------------|
| Standard | T55 | BLPT1255  | 2-3/4          |
|          | T60 | BLPT1260  | 2-3/4          |
| Long     | T55 | BLPTL1255 | 4-3/4          |
|          | T60 | BLPTL1260 | 4-3/4          |

## TORX®/Tamper-Resistant, Chrome (Blue-Point®) (1/2")

|          | #   | Stock No.   | Length, inches |
|----------|-----|-------------|----------------|
| Standard | T55 | BLPT1255TP  | 2-5/16         |
|          | T60 | BLPT1260TP  | 2-5/16         |
| Long     | T55 | BLPTL1255TP | 4-5/8          |
|          | T60 | BLPTL1260TP | 4-5/8          |

## HEX BIT SOCKETS (Blue-Point®)

### Hex/Standard, mm, Chrome (Blue-Point®) (1/2")

| mm |           | Length, mm |
|----|-----------|------------|
| 10 | BLPH1210  | 60.3       |
| 12 | BLPHM1212 | 60.3       |
| 14 | BLPH1214  | 60.3       |
| 17 | BLPH1217  | 60.3       |
| 19 | BLPH1219  | 60.3       |



BLPH1214

### Hex/Standard, Inches, Chrome (Blue-Point®) (1/2")

|      |           | Length, inches |
|------|-----------|----------------|
| 7/16 | BLPH12716 | 2-7/16         |
| 1/2" | BLPH1212  | 2-7/16         |
| 9/16 | BLPH12916 | 2-7/16         |
| 5/8  | BLPH1258  | 2-7/16         |
| 3/4  | BLPH1234  | 2-7/16         |



BLPH12916



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## COMBINATION BIT SOCKET SETS (Blue-Point®)

### 1/2" Combination Bit Socket Sets (Blue-Point®)



BLPTSSC43

#### BLPTSSC43 43 pc Combination Drive TORX® Socket and TORX® Bit Socket Driver Set (Blue-Point®)

- (5) 1/4" Drive External TORX® Sockets (E4–E8)
- (10) Tamper-Resistant TORX® Bit Sockets (T6–T30)
- (10) Tamper-Resistant TORX® Long Bit Sockets (T6–T30)
- (4) 3/8" Drive External TORX® Sockets (E10–E16)
- (3) Tamper-Resistant TORX® Bit Sockets (T40, T45 and T50)
- (3) Tamper-Resistant TORX® Long Bit Sockets (T40, T45 and T50)
- (4) 1/2" Drive External TORX® Sockets (E18–E24)
- (2) Tamper-Resistant TORX® Bit Sockets (T55 and T60)
- (2) Tamper-Resistant TORX® Long Bit Sockets (T55 and T60)
- (1) storage case



BLPHSSC30

#### BLPHSSC30 30 pc Combination Drive Hex Bit Socket Driver Set (Blue-Point®)

- Includes (30) Hex Bit Socket Drivers in a storage case
- 1/4" drive components include (6) SAE Hex Bit Sockets (1/8–1/4") and (5) Metric Hex Bit Sockets (2.5–6 mm)
- 3/8" drive components include (5) SAE Hex Bit Sockets (7/32–7/16") and (5) Metric Hex Bit Sockets (6–10 mm)
- 1/2" drive components include (4) SAE Hex Bit Sockets (1/2–3/4") and (5) Metric Hex Bit Sockets (10–19 mm)



BLPTH87

#### BLPTH87 87 pc TORX® and Hex Bit Socket Driver Set (Blue-Point®)

- Includes (87) TORX® and Hex Bit Socket Drivers (Blue-Point®)
- 1/4" drive components include (5) External TORX® Sockets (E4–E8), (10) TORX® Bit Sockets (T6–T30), (10) Long TORX® Bit Sockets (T6–T30), (5) Metric Hex Bit Sockets (2.5–6 mm), (3) Long Metric Hex Bit Sockets (4–6 mm), (6) Hex Bit Sockets (1/8–1/4") and (3) Long Hex Bit Sockets (1/8–3/16")
- 3/8" drive components include (4) External TORX® Sockets (E10–E16), (3) TORX® Bit Sockets (T40–T50), (3) Long TORX® Bit Sockets (T40–T50), (5) Metric Hex Bit Sockets (6–10 mm), (4) Long Metric Hex Bit Sockets (7–10 mm), (4) Hex Bit Sockets (7/32–3/8") and (4) Long Hex Bit Sockets (7/32–3/8")
- 1/2" drive components include (4) External TORX® Sockets (E18–E24), (2) TORX® Bit Sockets (T55, T60), (2) Long TORX® Bit Sockets (T55, T60), (5) Metric Hex Bit Sockets (10–19 mm) and (5) Hex Bit Sockets (7/16–3/4")

## GENERAL SERVICE SETS



BLPGSS1233

#### General Service Set (Blue-Point®) (1/2")

- Great for use at home or on the road
- Set offers full range of deep and shallow sockets for the most common fastener applications
- Smallest and most compact general service set offered yet
- Compact case fits in a shallow Snap-on® tool box drawer

#### BLPGSS1233 33 pc 1/2" Drive SAE/Metric General Service Socket Set (Blue-Point®)

- Includes (15) SAE (3/8–1-1/4") (12) Metric (12–24 mm) Standard Sockets, Breaker Bar, Universal Joint, Quick-Release Ratchet and (3) Extensions (3, 6 and 10")
- Includes storage case

# 3/4" DRIVE TOOLS

THERE'S A REASON  
TECHNICIANS RELY SO  
HEAVILY ON OUR 3/4"  
DRIVE TOOLS FOR HEAVY-  
DUTY APPLICATIONS:  
ABSOLUTE DEPENDABILITY.  
WHETHER YOU'RE  
REPAIRING ANYTHING  
FROM AGRICULTURAL  
MACHINERY TO SKIP  
LOADERS OR PILE  
DRIVERS, THEY PERFORM  
FLAWLESSLY. JOB AFTER  
JOB, YEAR AFTER YEAR.

---

## BIG TOOLS WITH A BIG REPUTATION.

---

Our 3/4" drive tools are crafted from alloy-content steel for strength and durability. They work better too, thanks to such features as uniform wall thickness for greater accessibility and our Flank Drive® system that supplies 20% more torque while guarding against rounding of fasteners.

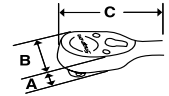
## RATCHET HEADS/HANDLES



L872

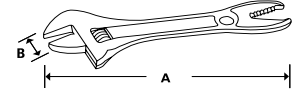


GL872



### Ratchet Heads, Sealed (3/4")

| Stock No. | Description         | Gear Teeth | Swing Arc | A     | B     | C       | Repair Kit |
|-----------|---------------------|------------|-----------|-------|-------|---------|------------|
| L872      | Sealed Ratchet Head | 32         | 11°       | 1-1/4 | 2-1/2 | 5-15/16 | RKRQC4     |
| GL872     | Sealed Ratchet Head | 32         | 11°       | 1-1/4 | 2-1/2 | 5-15/16 | RKRQC4     |



### Handles, Chrome (3/4")

| Stock No. | Description  | A     | B      | C     |
|-----------|--|-------|--------|-------|
| L872H     | Short 19-1/4" Handle (lock button both ends)       | 13/16 | 19-1/4 | 15/16 |
| L872RM    | Long 36" Handle (lock button end/knurled end)      | 15/16 | 36     | 1-1/8 |
| L872RJ    | Short 19-1/4" Handle (lock button end/knurled end) | 15/16 | 19-1/4 | 1-1/8 |



L872H



L872RM



L872RJ

### Head and Handle Combinations (3/4")

|  | Heads Using 13/16" (small) diameter handle holes |                          | Heads using 15/16" (large) diameter handle holes |        |
|--|--|--------------------------|--|--------|
|  | L52B Sliding Head                                | L872 Sealed Ratchet Head | L8112A Breaker Bar Head                          | L872H  |
| Short 19-1/4" Handle (lock button both ends)       | L872H  | —                        | L872H  | L872H  |
| Short 19-1/4" Handle (lock button end/knurled end) | —  | L872RJ                   | L872RJ   | L872RJ |
| Long 36" Handle (lock button end/knurled end)      | —  | L872RM                   | L872RM   | L872RM |

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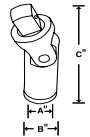
## DRIVE HANDLES



L8112A

### Breaker Bar, Chrome (3/4")

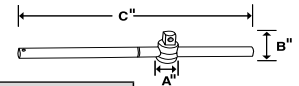
| Head Only | A     | B      | C       | Use with Handle  |
|-----------|-------|--------|---------|------------------|
| L8112A    | 15/16 | 1-9/16 | 3-11/16 | L872RM or L872RJ |



L52B

### Sliding T-Handle, Chrome (3/4")

| Stock No. | A     | B      |
|-----------|-------|--------|
| L52B      | 1-1/2 | 2-5/16 |



#### 3/4" Drive 2-5/16" Head Depth Sliding T-Handle Head

- Designed for heavier applications
- Can be used as a T-handle or as an offset wrench
- Spring-and-friction ball holds head in position
- Use with L872H handle

## SOCKET/RATCHET ACCESSORIES



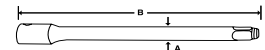
L32



GL42

### Extensions/Lock Button (3/4")

| Stock No. | Industrial Stock No. | A     | B  |
|-----------|----------------------|-------|----|
| L32       | GL32                 | 15/16 | 3  |
| L42       | GL42                 | 15/16 | 5  |
| L62       | GL62                 | 15/16 | 8  |
| L122      | GL122                | 15/16 | 16 |



# SOCKETS/RATCHET ACCESSORIES

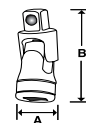
3/4" DRIVE TOOLS

## Universal Joint, Chrome

| Stock No. | A      | B     |
|-----------|--------|-------|
| L82A      | 1-9/16 | 3-7/8 |



L82A

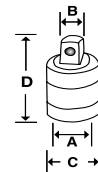


## Square Drive Adaptors, Industrial (3/4")

| Stock No. | A   | B   | C       | D      | Repair Bit |
|-----------|-----|-----|---------|--------|------------|
| GLA12B    | 1/2 | 3/4 | 1-7/8   | 1-7/8  | —          |
| GLAS1F    | 3/4 | 1/2 | 1-7/16  | 2-7/16 | GLAS1F2    |
| GLA72A    | 3/4 | 1   | 1-7/16  | 2-5/8  | —          |
| GLA124A   | 1   | 3/4 | 1-13/16 | 2-3/4  | —          |



GLAS1F



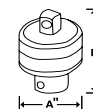
## Ratchet Adaptor, Chrome (3/4")

| Stock No. | Description     | Gear Teeth | Swing Arc | A     | B       | Repair Kit |
|-----------|-----------------|------------|-----------|-------|---------|------------|
| L672B     | Ratchet Adaptor | 44         | 8.2°      | 2-1/2 | 3-15/16 | RKR881B    |

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L672B



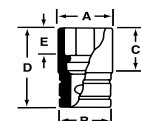
## FLANK DRIVE® SOCKETS



LDH482



411LDH



## Shallow, Inches, Chrome

| Socket Size | 12      | A       | B       | C       | D      | E       | Set Contains: |    |
|-------------|---------|---------|---------|---------|--------|---------|---------------|----|
|             |         |         |         |         |        |         | 12            | 12 |
| 3/4         | LDH242  | 1-1/8   | 1-7/16  | 1-9/32  | 2-9/32 | 39/64   |               | •  |
| 13/16       | LDH262  | 1-7/32  | 1-7/16  | 1-9/32  | 2-9/32 | 21/32   |               | •  |
| 7/8         | LDH282  | 1-5/16  | 1-7/16  | 1-9/32  | 2-9/32 | 23/32   |               | •  |
| 15/16       | LDH302  | 1-3/8   | 1-7/16  | 1-9/32  | 2-9/32 | 47/64   |               | •  |
| 31/32       | LDH312  | 1-25/64 | 1-7/16  | 1-9/32  | 2-9/32 | 43/64   |               | •  |
| 1           | LDH322  | 1-1/2   | 1-7/16  | 1-9/32  | 2-9/32 | 3/4     |               | •  |
| 1-1/16      | LDH342  | 1-9/16  | 1-1/2   | 1-11/32 | 2-9/32 | 49/64   |               | •  |
| 1-1/8       | LDH362  | 1-5/8   | 1-37/64 | 1-9/32  | 2-9/32 | 51/64   |               | •  |
| 1-3/16      | LDH382  | 1-11/16 | 1-41/64 | 1-9/32  | 2-9/32 | 27/32   |               | •  |
| 1-1/4       | LDH402  | 1-3/4   | 1-45/64 | 1-1/4   | 2-9/32 | 27/32   |               | •  |
| 1-5/16      | LDH422A | 1-7/8   | 1-27/32 | 1-9/32  | 2-3/8  | 55/64   |               | •  |
| 1-5/16      | LDH442  | 1-61/64 | 1-3/4   | 1-9/16  | 2-1/2  | 29/32   |               | •  |
| 1-7/16      | LDH462  | 2-1/8   | 1-3/4   | 1-9/16  | 2-1/2  | 31/32   |               | •  |
| 1-1/2       | LDH482  | 2-1/8   | 1-3/4   | 1-9/16  | 2-1/2  | 1-1/64  |               | •  |
| 1-9/16      | LDH502  | 2-3/16  | 1-3/4   | 1-9/16  | 2-1/2  | 1-5/32  | •             |    |
| 1-5/8       | LDH522  | 2-1/4   | 1-3/4   | 1-19/32 | 2-1/2  | 1-5/32  | •             |    |
| 1-11/16     | LDH542  | 2-25/64 | 1-3/4   | 1-13/16 | 2-3/4  | 1-3/16  | •             |    |
| 1-3/4       | LDH562  | 2-7/16  | 1-3/4   | 1-13/16 | 2-3/4  | 1-7/32  | •             |    |
| 1-13/16     | LDH582  | 2-1/2   | 1-3/4   | 1-13/16 | 2-3/4  | 1-1/4   | •             |    |
| 1-7/8       | LDH602  | 2-9/16  | 1-3/4   | 2-1/16  | 3      | 1-19/64 | •             |    |
| 2           | LDH642  | 2-3/4   | 1-3/4   | 2-5/16  | 3-1/4  | 1-19/64 | •             |    |
| 2-1/16      | LDH662  | 2-3/4   | 1-3/4   | 2-1/16  | 3      | 1-3/8   |               |    |
| 2-1/8       | LDH682  | 2-61/64 | 1-3/4   | 2-5/16  | 3-1/4  | 1-7/16  |               |    |
| 2-3/16      | LDH702  | 2-15/16 | 1-3/4   | 2-5/16  | 3-1/4  | 1-1/2   |               |    |
| 2-1/4       | LDH722  | 3-1/8   | 1-3/4   | 2-9/16  | 3-1/2  | 1-1/2   |               |    |
| 2-3/8       | LDH762  | 3-1/4   | 1-3/4   | 2-13/16 | 3-3/4  | 1-3/4   |               |    |

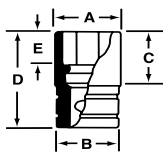
ASME®/ANSI® B107.10

Sets includes storage tray.



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## FLANK DRIVE® SOCKETS



### Shallow, mm, Chrome

| mm | 12             | A    | B    | C    | D    | E    |
|----|----------------|------|------|------|------|------|
| 22 | <b>LDHM222</b> | 31.1 | 34.6 | 30.2 | 50.8 | 17.1 |
| 24 | <b>LDHM242</b> | 33.4 | 34.6 | 31.8 | 50.8 | 17.9 |
| 27 | <b>LDHM272</b> | 37.3 | 39.5 | 31.8 | 54.0 | 19.9 |
| 30 | <b>LDHM302</b> | 41.0 | 39.8 | 34.0 | 57.2 | 21.8 |
| 36 | <b>LDHM362</b> | 49.3 | 41.2 | 35.1 | 58.7 | 22.1 |



**LDHM222**



**LS342**

### Deep, Inches, Chrome

| 11     | 6            | A      | B     | C     | D     | E |
|--------|--------------|--------|-------|-------|-------|---|
| 1-1/16 | <b>LS342</b> | 1-9/16 | 1-1/2 | 2-3/4 | 3-1/2 | 1 |

## SPLINE SOCKETS

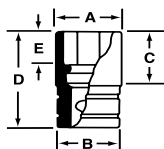
Snap-on® spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to

reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary six- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.

### 3/4" Drive Shallow, Inches, Chrome



**LES322B**

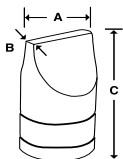


| Stock No. | A      | B       | C       | D       | E     |
|-----------|--------|---------|---------|---------|-------|
| #24       | 3/4    | 1-3/8   | 1-25/32 | 1-25/32 | 5/8   |
| #26       | 13/16  | 1-5/32  | 1-3/8   | 1-25/32 | 21/32 |
| #28       | 7/8    | 1-5/32  | 1-3/8   | 1-25/32 | 21/32 |
| #30       | 15/16  | 1-3/8   | 15/16   | 1-29/32 | 25/32 |
| #32       | 1      | 1-15/32 | 1       | 1-31/32 | 13/16 |
| #34       | 1-1/16 | 1-9/16  | 1-1/16  | 2-1/32  | 7/8   |
| #36       | 1-1/8  | 1-21/32 | 1-3/16  | 2-3/16  | 15/16 |

## SPECIAL APPLICATION SOCKETS



**GLD138**

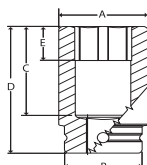


### Drag Link Sockets, Industrial

| Stock No.     | B x A         | A       | B     | C      |
|---------------|---------------|---------|-------|--------|
| <b>GLD138</b> | 13/64 x 1-3/8 | 1-3/8   | 13/64 | 2-3/16 |
| <b>GLD139</b> | 1/4 x 1-11/16 | 1-11/16 | 1/4   | 2-3/16 |



**IM382CD**



### Military Vehicle Repair Socket, Industrial

| mm | 6              | A    | B    | C    | D    | E    |
|----|----------------|------|------|------|------|------|
| 30 | <b>IM382CD</b> | 47.6 | 41.2 | 36.5 | 53.9 | 19.0 |

#### IM382CD 3/4" Drive 6-Point Metric 30 mm Flank Drive® Shallow Impact Socket

- Applications include Assault Breacher Vehicle; Utility Truck (Tamen: D00347K); Abrams M-1 Tank; Bridge Launcher Carrier; M1A2 Heavy Assault Bridge (hab)/Wolverine, 5420-01-430-4227; Armored Vehicle Launch Bridge (M60A1 and M48A5); Combat Tank, Ft, 120 mm gun (M1A1)
- 30 mm, 3/4" drive

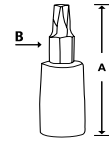


## TORX®/Standard, Industrial (3/4")

| #   | Stock No. | A     | B      |
|-----|-----------|-------|--------|
| T60 | T602E     | 5     | T602E2 |
| T80 | T802E     | 4-3/8 | T802E2 |
| T90 | T902E     | 4-3/8 | T902E2 |



T902E

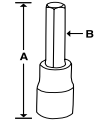


## Hex/Standard (Impact), mm (3/4")

| mm |         | A   | B       |
|----|---------|-----|---------|
| 17 | LAWM17E | 105 | SAM17E2 |
| 19 | LAWM19E | 112 | SAM19E2 |



LAWM17E

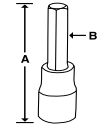


## Hex/Standard (Impact), inches (3/4")

|     |         | A     | B        |
|-----|---------|-------|----------|
| 5/8 | LAW120E | 3-3/4 | LAW120E2 |
| 3/4 | LAW124E | 1-5/8 | LAW124E2 |



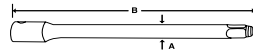
LAW120E



## IMPACT ACCESSORIES



IM122B

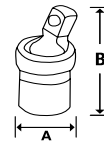


### Extensions (Impact)

| Stock No. | A | B  |
|-----------|---|----|
| IM132A    | 1 | 3  |
| IM62B     | 1 | 7  |
| IM92B     | 1 | 10 |
| IM122B    | 1 | 13 |



IP82



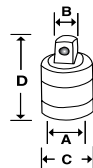
### Swivel Ball Universal Joint (Impact)

- Maximum Accessibility Design
- No internal spring used

| Stock No. | A     | B      |
|-----------|-------|--------|
| IP82      | 1-3/4 | 3-5/32 |



IM124B



### Square Drive Adaptors (Impact)

| Stock No. | A   | B                 | C     | D       |
|-----------|-----|-------------------|-------|---------|
| IM72      | 3/4 | 1 with Pin Hole   | 1-5/8 | 2-9/16  |
| IM124B    | 1   | 3/4 with Pin Hole | 2-3/8 | 2-13/16 |



IM243P

### 3/4" Drive Locking Rings and Pins

| Stock No.  | Description         | Use with  |
|--|---------------------|---|
| IM182R   | Rubber Locking Ring | All 3/4" Drive Sockets/Accessories                |
| IM182P   | Steel Locking Pin   | All 3/4" Drive Sockets/Accessories                |
| IMR2   | Socket Retainer     | All 3/4" Drive Sockets/Accessories                |
| <b>Use the Following for the IM124B Adaptor:</b> |                     |   |
| IM243P   | Steel Locking Pin   | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm) |

For use on SIM, IM, IMM and SIMM sockets and other accessories on this page.

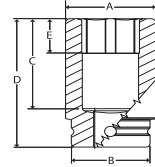


- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® IMPACT SOCKETS



IMM302



Shallow, mm

Set Contains: 425IMM

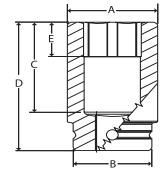
| mm | 6       | 12       | A    | B    | C    | D    | E    | 6 |
|----|---------|----------|------|------|------|------|------|---|
| 17 | IMM172A | —        | 29.2 | 41.1 | 27.2 | 50.8 | 13.7 | • |
| 18 | IMM182A | —        | 31.6 | 41.1 | 27.2 | 50.8 | 12.7 | • |
| 19 | IMM192A | IMMD192A | 31.8 | 41.1 | 27.2 | 50.8 | 13.7 | • |
| 20 | IMM202A | IMMD202B | 35.1 | 41.1 | 27.2 | 50.8 | 14.0 | • |
| 21 | IMM212A | IMMD212  | 34.9 | 41.1 | 27.2 | 50.8 | 15.2 | • |
| 22 | IMM222A | IMMD222A | 38.1 | 41.1 | 27.2 | 50.8 | 15.2 | • |
| 23 | IMM232A | IMMD232  | 36.3 | 41.1 | 27.2 | 50.8 | 16.5 | • |
| 24 | IMM242A | IMMD242A | 39.5 | 41.1 | 26.4 | 50.8 | 16.5 | • |
| 25 | IMM252A | IMMD252  | 39.6 | 41.1 | 26.4 | 50.8 | 16.3 | • |
| 26 | IMM262A | IMMD262  | 39.6 | 41.1 | 26.4 | 50.8 | 17.5 | • |
| 27 | IMM272A | IMMD272A | 42.6 | 41.1 | 26.4 | 50.8 | 19.0 | • |
| 28 | IMM282A | IMMD282  | 44.7 | 41.1 | 32.8 | 57.2 | 17.5 | • |
| 29 | IMM292  | IMMD292  | 46.0 | 41.1 | 32.8 | 57.2 | 18.0 | • |
| 30 | IMM302  | IMMD302A | 47.0 | 44.5 | 32.8 | 57.2 | 19.1 | • |
| 31 | IMM312  | IMMD312A | 49.2 | 44.5 | 32.8 | 57.2 | 19.1 | • |
| 32 | IMM322  | IMMD322A | 50.8 | 44.5 | 32.8 | 57.2 | 20.6 | • |
| 33 | IMM332A | IMMD332  | 50.8 | 44.5 | 32.8 | 57.2 | 20.3 | • |
| 34 | IMM342  | IMMD342  | 50.8 | 44.5 | 32.8 | 57.2 | 22.4 | • |
| 35 | IMM352  | IMMD352  | 54.0 | 44.5 | 32.8 | 57.2 | 22.4 | • |
| 36 | IMM362  | IMMD362  | 54.0 | 44.5 | 32.8 | 57.2 | 22.4 | • |
| 38 | IMM382  | IMMD382  | 57.2 | 44.5 | 32.8 | 57.2 | 23.9 | • |
| 40 | IMM402  | IMMD402  | 59.7 | 44.5 | 45.5 | 69.9 | 28.4 | • |
| 41 | IMM412  | IMMD412  | 60.5 | 44.5 | 33.5 | 57.2 | 26.2 | • |
| 42 | IMM422A | IMMD422  | 63.1 | 44.5 | 46.9 | 66.9 | 28.6 | • |
| 46 | IMM462  | IMMD462  | 66.7 | 44.5 | 45.5 | 69.9 | 29.0 | • |
| 50 | IMM502  | IMMD502  | 71.4 | 44.5 | 52.6 | 76.2 | 31.0 | • |

Set comes with clips and rails.

### IMMD202B 3/4" Drive 12-Point Metric 20 mm Flank Drive® Shallow Impact Socket

- Specific applications include removing the head bolts on Caterpillar® C7, C8, C9 and C10 engines

# FLANK DRIVE® IMPACT SOCKETS



3/4" DRIVE TOOLS

## Shallow, inches

| H       | 6      | 12       | A       | B     | C       | D       | E      | Set Contains: |       |       |        |        |        |   |  |
|---------|--------|----------|---------|-------|---------|---------|--------|---------------|-------|-------|--------|--------|--------|---|--|
|         |        |          |         |       |         |         |        | 429IM         | 417IM | 418IM | 429IMD | 417IMD | 418IMD |   |  |
| 9/16    | IM182A | IMD182A  | 1       | 1-5/8 | 1       | 1-3/4   | 7/16   | •             |       |       |        |        |        |   |  |
| 5/8     | IM202A | IMD202A* | 1-3/32  | 1-5/8 | 1       | 1-3/4   | 1/2    | •             |       |       |        | •      |        |   |  |
| 11/16   | IM222A | IMD222A  | 1-5/32  | 1-5/8 | 1       | 1-3/4   | 9/16   | •             |       |       |        | •      |        |   |  |
| 3/4     | IM242A | IMD242A  | 1-1/4   | 1-5/8 | 1       | 1-3/4   | 9/16   | •             | •     |       |        | •      | •      |   |  |
| 13/16   | IM262A | IMD262A  | 1-3/8   | 1-5/8 | 1-1/8   | 1-7/8   | 5/8    | •             | •     |       |        | •      | •      |   |  |
| 7/8     | IM282A | IMD282A  | 1-1/2   | 1-5/8 | 1-1/8   | 1-7/8   | 5/8    | •             | •     |       |        | •      | •      |   |  |
| 15/16   | IM302A | IMD302A* | 1-9/16  | 1-5/8 | 1-1/8   | 1-7/8   | 3/4    | •             | •     |       |        | •      | •      |   |  |
| 1       | IM322A | IMD322A* | 1-5/8   | 1-5/8 | 1-1/4   | 2       | 3/4    | •             | •     |       |        | •      | •      |   |  |
| 1-1/16  | IM342A | IMD342A  | 1-11/16 | 1-5/8 | 1-1/4   | 2       | 3/4    | •             | •     |       |        | •      | •      |   |  |
| 1-1/8   | IM362  | IMD362A  | 1-7/8   | 1-5/8 | 1-3/8   | 2-1/8   | 3/4    | •             | •     |       |        | •      | •      |   |  |
| 1-3/16  | IM382  | IMD382   | 1-7/8   | 1-5/8 | 1-5/16  | 2-1/8   | 3/4    | •             | •     |       |        | •      | •      |   |  |
| 1-1/4   | IM402  | IMD402   | 2       | 1-3/4 | 1-3/8   | 2-1/8   | 13/16  | •             | •     | •     |        | •      | •      | • |  |
| 1-5/16  | IM422  | IMD422   | 2-1/8   | 1-3/4 | 1-1/2   | 2-1/4   | 7/8    | •             | •     | •     |        | •      | •      | • |  |
| 1-3/8   | IM442  | IMD442   | 2-1/8   | 1-3/4 | 1-1/2   | 2-1/4   | 7/8    | •             | •     | •     |        | •      | •      | • |  |
| 1-7/16  | IM462  | IMD462   | 2-1/4   | 1-3/4 | 1-1/2   | 2-1/4   | 7/8    | •             | •     | •     |        | •      | •      | • |  |
| 1-1/2   | IM482  | IMD482   | 2-1/4   | 1-3/4 | 1-1/2   | 2-1/4   | 15/16  | •             | •     | •     |        | •      | •      | • |  |
| 1-9/16  | IM502  | IMD502   | 2-7/16  | 1-3/4 | 1-9/16  | 2-3/8   | 15/16  | •             | •     | •     |        | •      | •      | • |  |
| 1-5/8   | IM522  | IMD522   | 2-7/16  | 1-3/4 | 1-5/8   | 2-3/8   | 7/8    | •             | •     | •     |        | •      | •      | • |  |
| 1-11/16 | IM542  | IMD542   | 2-1/2   | 1-3/4 | 1-13/16 | 2-9/16  | 1      | •             | •     | •     |        | •      | •      | • |  |
| 2-3/4"  | IM562  | IMD562   | 2-1/2   | 1-3/4 | 1-13/16 | 2-9/16  | 1      | •             | •     | •     |        | •      | •      | • |  |
| 1-13/16 | IM582  | IMD582   | 2-5/8   | 1-3/4 | 1-5/8   | 2-5/8   | 1-1/4  | •             |       | •     |        | •      | •      | • |  |
| 1-7/8   | IM602  | IMD602   | 2-5/8   | 1-3/4 | 1-3/4   | 2-3/4   | 1-1/8  | •             |       | •     |        | •      | •      | • |  |
| 1-15/16 | IM622A | IMD622   | 2-3/4   | 1-3/4 | 1-9/16  | 2-27/32 | 1-3/32 | •             |       | •     |        | •      | •      | • |  |
| 2       | IM642A | IMD642   | 2-7/8   | 1-3/4 | 1-15/16 | 2-7/8   | 1-1/8  | •             |       | •     |        | •      | •      | • |  |
| 2-1/16  | IM662A | IMD662   | 3       | 1-3/4 | 1-7/8   | 2-7/8   | 1-3/16 | •             |       | •     |        | •      | •      | • |  |
| 2-1/8   | IM682A | IMD682   | 3       | 1-3/4 | 1-3/4   | 3       | 1-1/4  | •             |       | •     |        | •      | •      | • |  |
| 2-3/16  | IM702A | IMD702   | 3-1/4   | 1-3/4 | 2-3/16  | 3-3/16  | 1-5/16 | •             |       | •     |        | •      | •      | • |  |
| 2-1/4   | IM722A | IMD722   | 3-1/4   | 1-3/4 | 2-3/16  | 3-3/16  | 1-3/8  | •             |       | •     |        | •      | •      | • |  |
| 2-3/8   | IM762A | IMD762   | 3-1/2   | 1-3/4 | 2-3/8   | 3-1/2   | 1-7/16 | •             |       | •     |        | •      | •      | • |  |

\*Applications include repair of heavy-duty trucks and off-road equipment, most diesel engines including Caterpillar and Cummins® plus head bolts and bearing cap bolts. Set comes with clips and rails.

### IMD242A 3/4" Drive 12-Point SAE 3/4" Flank Drive® Shallow Impact Socket

- Applications include most Caterpillar® head bolts, Detroit Diesel® main bearing cap bolts, K19 Cummins® head bolts

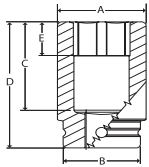
## Shallow, 8-Point, inches

| H      | 8       | A       | B     | C       | D     | E      |
|--------|---------|---------|-------|---------|-------|--------|
| 13/16  | IMDS626 | 1-15/32 | 1-5/8 | 1-1/64  | 2-1/4 | 17/32  |
| 7/8    | IMDS628 | 1-9/16  | 1-5/8 | 1-1/64  | 2-1/4 | 37/64  |
| 15/16  | IMDS630 | 1-43/64 | 1-5/8 | 1-9/16  | 2-1/4 | 39/64  |
| 1      | IMDS632 | 1-49/64 | 1-5/8 | 1-1/2   | 2-1/4 | 41/64  |
| 1-1/16 | IMDS634 | 1-55/64 | 1-3/4 | 1-13/16 | 2-1/2 | 11/16  |
| 1-1/8  | IMDS636 | 1-15/16 | 1-3/4 | 1-13/16 | 2-1/2 | 23/32  |
| 1-3/16 | IMDS638 | 2-1/32  | 1-3/4 | 1-13/16 | 2-1/2 | 3/4    |
| 1-1/4  | IMDS640 | 2-1/8   | 1-3/4 | 1-13/16 | 2-1/2 | 51/64  |
| 1-5/16 | IMDS642 | 2-7/32  | 1-3/4 | 2-1/16  | 2-3/4 | 57/64  |
| 1-7/16 | IMDS646 | 2-3/8   | 1-3/4 | 2-1/16  | 2-3/4 | 1-9/64 |



• Read safety precautions on pages W1 to W4

# FLANK DRIVE® IMPACT SOCKETS



SIMM212



SIMDM212

## Deep, mm

| mm | 6        | 12       | A    | B    | C    | D     | E    |
|----|----------|----------|------|------|------|-------|------|
| 17 | SIMM172  | —        | 28.9 | 41.1 | 52.6 | 76.2  | 12.7 |
| 18 | SIMM182  | —        | 31.7 | 41.3 | 76.2 | 101.6 | 12.7 |
| 19 | SIMM192  | —        | 32.4 | 41.1 | 51.8 | 76.2  | 14.2 |
| 20 | SIMM202  | —        | 33.5 | 41.1 | 19.1 | 76.2  | 14.2 |
| 21 | SIMM212  | SIMDM212 | 34.2 | 41.1 | 37.4 | 76.2  | 14.2 |
| 22 | SIMM222  | —        | 35.8 | 41.1 | 37.4 | 76.2  | 14.2 |
| 23 | SIMM232  | —        | 35.8 | 41.1 | 37.2 | 76.2  | 16.3 |
| 24 | SIMM242  | —        | 37.7 | 41.1 | 37.0 | 76.2  | 16.5 |
| 25 | SIMM252  | —        | 34.6 | 41.1 | 19.1 | 76.2  | 16.3 |
| 26 | SIMM262  | —        | 39.6 | 41.1 | 36.7 | 76.2  | 16.3 |
| 27 | SIMM272  | —        | 42.8 | 41.1 | 38.4 | 76.2  | 19.1 |
| 30 | SIMM302  | —        | 46.8 | 41.1 | 58.2 | 82.6  | 18.5 |
| 31 | SIMM312  | —        | 46.0 | 41.1 | 64.3 | 82.6  | 19.1 |
| 32 | SIMM322  | —        | 50.8 | 44.5 | 58.9 | 82.6  | 19.1 |
| 33 | SIMM332  | —        | 52.4 | 44.5 | 57.4 | 82.6  | 22.4 |
| 35 | SIMM352  | —        | 52.7 | 44.5 | 57.2 | 82.6  | 21.6 |
| 36 | SIMM362  | —        | 54.0 | 44.5 | 62.5 | 88.9  | 22.9 |
| 38 | SIMM382  | —        | 57.2 | 44.5 | 65.3 | 88.9  | 23.8 |
| 41 | SIMM412* | —        | 55.1 | 44.5 | 74.9 | 100.1 | 26.7 |
| 41 | SIMM432  | —        | 63.5 | 44.5 | 70.0 | 89    | 26.7 |
| 46 | SIMM462  | —        | 76.7 | 44.5 | 72.4 | 101.6 | 29.1 |
| 46 | SIMM462A | —        | 65.9 | 44.5 | 73.9 | 95.3  | 28.4 |

\*Applications include usage on stud piloted, budd style wheels.

### SIMDM212 3/4" Drive 12-Point Metric 21 mm Flank Drive® Deep Impact Socket

- Applications include flywheel bolts on Cummins® ISX engines



423SIM

## Deep, inches



| II      | 6       | A       | B     | C      | D     | E      | 6 |
|---------|---------|---------|-------|--------|-------|--------|---|
| 9/16    | SIM182  | 1       | 1-5/8 | 2-1/16 | 3     | 9/16   | • |
| 5/8     | SIM202  | 1-1/16  | 1-5/8 | 2-1/16 | 3     | 9/16   | • |
| 11/16   | SIM222  | 1-1/8   | 1-5/8 | 2-1/16 | 3     | 9/16   | • |
| 3/4     | SIM242  | 1-1/4   | 1-5/8 | 2      | 3     | 9/16   | • |
| 13/16   | SIM262  | 1-3/8   | 1-5/8 | 2      | 3     | 5/8    | • |
| 7/8     | SIM282  | 1-1/2   | 1-5/8 | 2      | 3     | 5/8    | • |
| 15/16   | SIM302  | 1-5/8   | 1-5/8 | 2      | 3     | 5/8    | • |
| 1       | SIM322  | 1-5/8   | 1-5/8 | 2      | 3     | 11/16  | • |
| 1-1/16  | SIM342  | 1-3/4   | 1-5/8 | 2      | 3     | 11/16  | • |
| 1-1/8   | SIM362  | 1-3/4   | 1-5/8 | 2      | 3     | 3/4    | • |
| 1-3/16  | SIM382  | 2       | 1-3/4 | 2-1/4  | 3-1/4 | 3/4    | • |
| 1-1/4   | SIM402  | 2       | 1-3/4 | 2-1/4  | 3-1/4 | 7/8    | • |
| 1-5/16  | SIM422  | 2-1/8   | 1-3/4 | 2-9/16 | 3-1/4 | 7/8    | • |
| 1-3/8   | SIM442  | 2-1/8   | 1-3/4 | 2-1/4  | 3-1/4 | 7/8    | • |
| 1-7/16  | SIM462  | 2-3/16  | 1-3/4 | 2-1/2  | 3-1/2 | 7/8    | • |
| 1-1/2   | SIM482  | 2-1/4   | 1-3/4 | 2-1/2  | 3-1/2 | 15/16  | • |
| 1-9/16  | SIM502  | 2-5/16  | 1-3/4 | 2-1/2  | 3-1/2 | 15/16  | • |
| 1-5/8   | SIM522  | 2-7/16  | 1-3/4 | 2-1/2  | 3-1/2 | 15/16  | • |
| 1-11/16 | SIM542  | 2-1/2   | 1-3/4 | 2-1/2  | 3-1/2 | 1      | • |
| 1-3/4   | SIM562  | 2-1/2   | 1-3/4 | 2-1/2  | 3-1/2 | 1      | • |
| 1-13/16 | SIM582  | 2-5/8   | 1-3/4 | 2-3/4  | 3-3/4 | 1-1/16 | • |
| 1-7/8   | SIM602  | 2-11/16 | 1-3/4 | 2-3/4  | 3-3/4 | 1-1/8  | • |
| 2       | SIM642A | 2-13/16 | 1-3/4 | 2-3/4  | 3-3/4 | 1-1/8  | • |

Set Contains: 423SIM

Larger sizes available on special order.

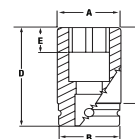
Set comes with clips and rails.

## Extra-Deep, mm

|  |  | A    | B    | C     | D   | E    |
|---|---|------|------|-------|-----|------|
| 24  | SIMML242  | 39.5 | 38.1 | 101.6 | 127 | 16.5 |





SIMML242



### SIMML242 6-Point Metric Extra-Deep Impact Socket

- For removing and installing the head bolts on Cummins® ISX engines



## Shallow/Thin Wall, inches

|  |  | A  | B      | C      | D      | E       |
|---|---|----|--------|--------|--------|---------|
| 1-1/2   | IMFS482A  | 54 | 44-2/5 | 36-3/5 | 63-1/2 | 24-1/10 |



IMFS482A

## Deep/Thin Wall, inches

|  |  | A     | B     | C     | D     | E   |
|---|---|-------|-------|-------|-------|-----|
| 3/4   | IMFDL242  | 1-3/8 | 1-5/8 | 4-3/4 | 5-3/4 | 1/2 |

Larger sizes available on special order.



IMFDL242

### IMFDL242 3/4" Drive 12-Point SAE 3/4" Flank Drive® Deep Thin Wall Impact Socket

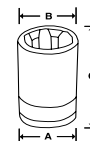
- Designed to remove the head bolts on Caterpillar® C12, C15, C16 and 3406Es where the front two and back two head bolts are positioned under the valve covers
- Applications on certain Caterpillar® head bolts require a thin walled socket of a certain length
- Additional applications include Detroit Diesel® main bearing cap bolts and 19 mm head bolts on Mercedes-Benz® MBE904/MBE906 EGR engines (2007 and later)
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards

## Inverted TORX®

|  | Stock No. | A     | B     | C     |
|---|-----------|-------|-------|-------|
| E24   | IMSLE242A | 1-5/8 | 1-5/8 | 3-3/4 |




IMSLE242A



### IMSLE242A 3/4" Drive E24 Inverted TORX® Impact Socket

- Applications include removing and installing head bolts on MaxxForce® 11 and 13 engines found on D15 International® 2010-current
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability

## Double Hex, mm

|  | Stock No. | A  | B    | C     | D   | E    |
|---|-----------|----|------|-------|-----|------|
| 20  | SIMDML202 | 35 | 38.1 | 120.6 | 146 | 13.9 |



SIMDML202




• Read safety precautions on pages W1 to W4

## GENERAL SERVICE SETS



434HDC

**434HDC 35 pc 3/4" Drive 12-Point SAE General Service Set**  
**35 Tools, includes:**


|  12-Point Shallow Socket |         |
|---|---------|
| 3/4   | LDH242  |
| 13/16   | LDH262  |
| 7/8   | LDH282  |
| 15/16   | LDH302  |
| 31/32   | LDH312  |
| 1   | LDH322  |
| 1-1/16  | LDH342  |
| 1-1/8   | LDH362  |
| 1-3/16  | LDH382  |
| 1-1/4   | LDH402  |
| 1-5/16  | LDH422A |
| 1-5/16  | LDH442  |
| 1-7/16  | LDH462  |
| 1-1/2   | LDH482  |
| 1-9/16  | LDH502  |
| 1-5/8   | LDH522  |
| 1-11/16   | LDH542  |
| 1-3/4   | LDH562  |
| 1-13/16   | LDH582  |
| 1-7/8   | LDH602  |
| 2   | LDH642  |
| 2-1/16  | LDH662  |
| 2-1/8   | LDH682  |
| 2-3/16  | LDH702  |
| 2-1/4   | LDH722  |
| 2-3/8   | LDH762  |

| Also Includes: |   |  |
|----------------|---|--|
| L32            | 3/4" Drive 3" Locking Button Extension              |  |
| L62            | 3/4" Drive 8" Locking Button Extension              |  |
| L122           | 3/4" Drive 16" Locking Button Extension             |  |
| L52B           | 3/4" Drive 2-5/16" Head Depth Sliding T-Handle Head |  |
| L872           | 3/4" Drive Sealed Head Ratchet                      |  |
| L82A           | 3/4" Drive 3-7/8" Friction Ball Universal Joint     |  |
| L8112A         | 3/4" Drive 15/16" Breaker Bar Head                  |  |
| L672B          | 3/4" Drive Ratchet Adaptor                          |  |
| L872H          | 3/4" Drive 19-1/4" Plain Locking Button Handle      |  |
| PB434HD        | Storage Case with Foam                              |  |



414AHD

**414AHD 15 pc 3/4" Drive 12-Point SAE Shallow General Service Socket Set**  
**15 Tools, includes:**

|  12-Point Shallow Socket |         |
|--|---------|
| 1-1/16   | LDH342  |
| 1-1/8  | LDH362  |
| 1-1/4  | LDH402  |
| 1-5/16   | LDH422A |
| 1-5/16   | LDH442  |
| 1-7/16   | LDH462  |
| 1-1/2  | LDH482  |
| 1-5/8  | LDH522  |
| 1-3/4  | LDH562  |
| 1-7/8  | LDH602  |

| Also Includes: |  |  |
|----------------|--|--|
| L62            | 3/4" Drive 8" Locking Button Extension           |  |
| L122           | 3/4" Drive 16" Locking Button Extension          |  |
| L872           | 3/4" Drive Sealed Head Ratchet                   |  |
| L872RJ         | 3/4" Drive 19-1/4" Knurled Locking Button Handle |  |
| L8112A         | 3/4" Drive 15/16" Breaker Bar Head               |  |



WORKING ON THE BIGGEST, MOST HEAVY-DUTY MACHINERY REQUIRES THE MOST HEAVY-DUTY TOOL. SNAP-ON® HAS YOU COVERED, WITH THE MOST RUGGED, LARGER DRIVE-SIZE TOOLS – WHETHER YOU’RE TACKLING SEMIS, CONSTRUCTION EQUIPMENT, HYDRAULICS OR OTHER HEAVY-DUTY CHALLENGES.

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**POWERFUL TOOLS.**

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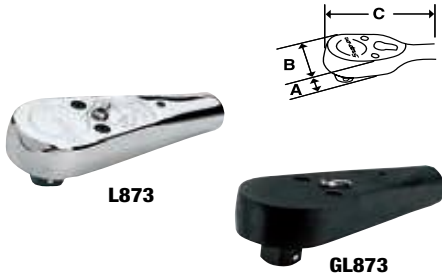
**POWERFUL ADVANTAGES.**

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Our wide range of 1" – 2 1/2" drive tools also offer a range of superior features. Our Flank Drive® system grabs fasteners on the flats, providing greater torque and preventing rounding of their corners. And our specially heat-treated impact sockets are made from a blend of alloy steel to withstand the repeated cycle loads of pneumatic and cordless impact wrenches.

# 1", 1-1/2", 2", 2-1/2" DRIVE TOOLS

## RATCHET HEADS/HANDLES

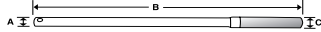


### Ratchet Heads, Sealed, Chrome (1")

| Stock No. | Description                  | Gear Teeth | Swing Arc | A     | B     | C     | Repair Kit |
|-----------|------------------------------|------------|-----------|-------|-------|-------|------------|
| L873      | Sealed Ratchet Head          | 30         | 12°       | 1-1/2 | 3-1/8 | 7-7/8 | RKRQC5     |
| GL873     | 1" Drive Sealed Ratchet Head | 30         | 12°       | 1-1/2 | 3-1/8 | 7-7/8 | RKRQC5     |

### Head and Handle Combinations

| Stock No. | Description                            | Required Handle | Optional Extension Handle |
|-----------|--|-----------------|---------------------------|
| L873      | Sealed Ratchet Head                    | L53HB           | L853HA1                   |
| L113H     | 1" Drive 32-5/32" Complete Breaker Bar | L53HB           | —                         |
| L53       | 1" Drive 30" Sliding T-Handle          | L53HB           | —                         |



### Handles, Chrome (1")

| Stock No. | A     | B  |
|-----------|-------|----|
| L53HB     | 1-1/8 | 29 |
| L853HA1   | 1-3/8 | 36 |

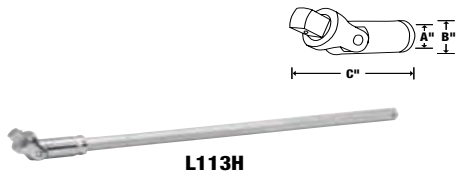
#### L53HB 1" Drive 29" Plain Locking Button Handle

- Plain handle with locking buttons at both ends
- Used on 1" drive ratchet heads, breaker bar heads and sliding T-heads

#### L853HA1 1" Drive 36" Knurled Handle Extension

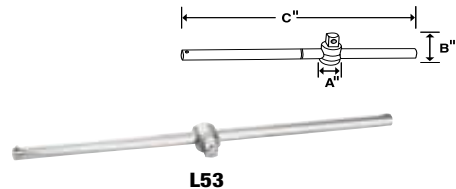
- Knurled grip extension handle attaches to L53HB handle for added leverage
- Only used with L53HB handle; L853HA1 will not connect directly to L873 ratchet head

## DRIVE HANDLES



### Breaker Bars, Chrome (1")

| Handle w/ Head | Length  | Head Only | A     | B     | C       | Handle Only |
|----------------|---------|-----------|-------|-------|---------|-------------|
| L113H          | 32-5/32 | L113      | 15/16 | 2-1/8 | 4-29/32 | L53HB       |



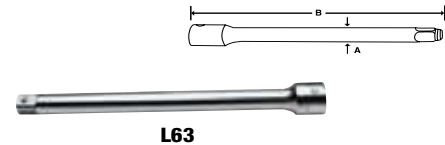
### Sliding T-Handle (1")

| Stock No. | C  | Sliding Head Only Stock No. | A | Handle Stock No. |
|-----------|----|-----------------------------|---|------------------|
| L53       | 29 | L53A                        | 2 | L53HB            |



## Extension/Lock Button, Chrome (1")

| Stock No. | A     | B |
|-----------|-------|---|
| L63       | 1-1/4 | 8 |



## Square Drive Adaptors, Industrial (1")

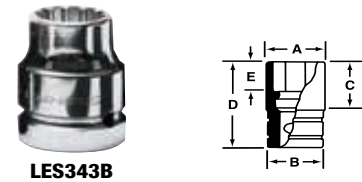
| Stock No. | A   | B   | C       | D     |
|-----------|-----|-----|---------|-------|
| GLA72A    | 3/4 | 1   | 1-7/16  | 2-5/8 |
| GLA124A   | 1   | 3/4 | 1-13/16 | 2-3/4 |

ASME®/ANSI® B107.10





## SPLINE SOCKETS

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.




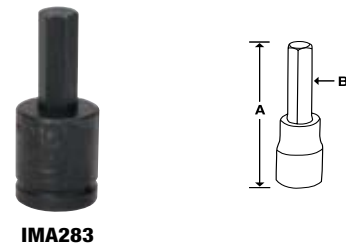
## Shallow, Inches, Chrome (1")

|  |  | Stock No. | A       | B       | C       | D       | E      |
|---|---|-----------|---------|---------|---------|---------|--------|
| #32   | 1   | LES323B   | 1-29/64 | 1-55/64 | 1-35/64 | 2-7/16  | 53/64  |
| #34   | 1-1/16  | LES343B   | 1-17/32 | 1-27/32 | 1-3/8   | 2-17/32 | 7/8    |
| #38   | 1-3/16  | LES383B   | 1-11/16 | 1-31/32 | 1-5/8   | 2-25/32 | 1-5/32 |

## HEX BIT SOCKETS

### Hex/Standard, inches, Industrial (1")

|  | Stock No. | A     | B        |
|---|-----------|-------|----------|
| 7/8   | IMA283    | 5-5/8 | IMA283-2 |
| 1   | IMA323    | 5-5/8 | IMA323-2 |

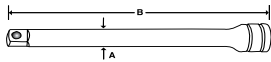


- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## IMPACT ACCESSORIES



IM133

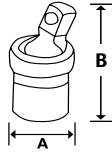


### Extensions with Pin Hole (1")

| Stock No. | A     | B      |
|-----------|-------|--------|
| IM133     | 1     | 3      |
| IM63B     | 1-1/8 | 7-1/8  |
| IM123     | 1-3/8 | 13-1/8 |



IP83

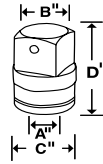


### Swivel Universal Joint with Pin Hole (1")

| Stock No. | A     | B      |
|-----------|-------|--------|
| IP83      | 2-1/2 | 4-3/16 |



IM72



### Adaptors with Pin Hole (1")

| Stock No. | A     | B                 | C     | D       |
|-----------|-------|-------------------|-------|---------|
| IM35      | 1     | 1-1/2             | 2-1/4 | 3-1/2   |
| IM53      | 1-1/2 | 1                 | 3-1/4 | 4-1/4   |
| IM72      | 3/4   | 1 with Pin Hole   | 1-5/8 | 2-9/16  |
| IM124B    | 1     | 3/4 with Pin Hole | 2-3/8 | 2-13/16 |



IM243P



IM243R



IMR3

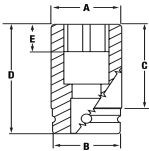
### 1" Drive Locking Rings and Pins

| Stock No. | Description                   | Use with  |
|-----------|-------------------------------|---|
| IM243P    | Steel Locking Pin             | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm)                               |
| IM243R    | Synthetic Rubber Locking Ring | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm) Plus IM124 Adaptor            |
| IMR3      | Socket Retainer               | All 1" Drive Sockets/Accessories, All #5 Spline Drive Sockets/Accessories       |
| IM483P    | Steel Locking Pin             | All Spline Drive Sockets/Accessories Plus 1" Drive Sockets from 1-7/16" (35 mm) |

## FLANK DRIVE® IMPACT SOCKETS

Shallow, mm

Set Contains: 5/16MM



IMM503

| mm | 6       | A     | B    | C    | D     | E    | 6 |
|----|---------|-------|------|------|-------|------|---|
| 27 | IMM273  | 44.5  | 53.8 | 27.0 | 57.2  | 17.5 | • |
| 30 | IMM303  | 47.8  | 53.8 | 27.0 | 57.2  | 17.5 | • |
| 32 | IMM323  | 50.8  | 53.8 | 33.3 | 63.5  | 19.1 | • |
| 33 | IMM333  | 52.3  | 53.8 | 33.3 | 63.5  | 22.4 | • |
| 35 | IMM353  | 53.8  | 53.8 | 33.5 | 63.5  | 22.4 | • |
| 36 | IMM363  | 57.2  | 57.2 | 34.3 | 63.5  | 22.4 | • |
| 38 | IMM383  | 59.7  | 57.2 | 40.1 | 69.9  | 23.6 | • |
| 41 | IMM413A | 59.9  | 57.2 | 39.6 | 69.9  | 26.4 | • |
| 46 | IMM463  | 69.9  | 60.5 | 44.2 | 76.2  | 30.0 | • |
| 50 | IMM503  | 69.9  | 60.5 | 49.3 | 82.6  | 31.2 | • |
| 55 | IMM553  | 82.6  | 60.3 | 46.7 | 82.6  | 31.8 | • |
| 60 | IMM603  | 88.9  | 57.2 | 51.6 | 88.9  | 38.1 | • |
| 65 | IMM653  | 92.1  | 60.5 | 63.8 | 101.6 | 45.7 | • |
| 70 | IMM703  | 95.3  | 60.5 | 62.2 | 101.6 | 45.7 | • |
| 75 | IMM753  | 104.8 | 60.5 | 67.1 | 108.0 | 51.6 | • |
| 80 | IMM803  | 108.7 | 61.1 | 65.9 | 108.7 | 47.6 | • |

# FLANK DRIVE® IMPACT SOCKETS







Shallow, inches

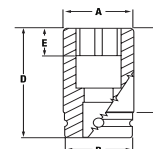
Set Contains:

521M

516M

522M

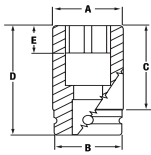
|  |  |  | A       | B     | C       | D       | E       |  |  |  |
|---|---|---|---------|-------|---------|---------|---------|---|---|---|
| 3/4   | IM243   | IMD243  | 1-7/16  | 2-1/8 | 1       | 2-1/8   | 11/16   | •   |   |   |
| 13/16   | IM263   | IMD263  | 1-7/16  | 2-1/8 | 1       | 2-1/8   | 11/16   | •   |   |   |
| 7/8   | IM283   | IMD283  | 1-1/2   | 2-1/8 | 1       | 2-1/8   | 11/16   | •   |   |   |
| 15/16   | IM303   | IMD303  | 1-19/32 | 2-1/8 | 1       | 2-1/8   | 11/16   | •   |   |   |
| 1   | IM323   | IMD323A   | 1-11/16 | 2-1/8 | 1-1/16  | 2-1/4   | 11/16   | •   |   |   |
| 1-1/16  | IM343   | IMD343  | 1-3/4   | 2-1/8 | 1-1/16  | 2-1/4   | 11/16   | •   |   |   |
| 1-1/8   | IM363   | IMD363  | 1-7/8   | 2-1/8 | 1-1/16  | 2-1/4   | 11/16   | •   |   |   |
| 1-3/16  | IM383   | IMD383  | 1-7/8   | 2-1/8 | 1-1/16  | 2-1/4   | 11/16   | •   |   |   |
| 1-1/4   | IM403   | IMD403  | 2       | 2-1/8 | 1-3/16  | 2-3/8   | 3/4     | •   |   |   |
| 1-5/16  | IM423   | IMD423  | 2-1/16  | 2-1/8 | 1-15/16 | 2-1/2   | 7/8     | •   |   |   |
| 1-3/8   | IM443   | IMD443  | 2-1/8   | 2-1/8 | 1-15/16 | 2-1/2   | 7/8     | •   |   |   |
| 1-7/16  | IM463   | IMD463  | 2-1/4   | 2-1/4 | 1-7/16  | 2-1/2   | 15/16   | •   |   |   |
| 1-1/2   | IM483B  | IMD483  | 2-3/8   | 2-1/4 | 1-7/16  | 2-5/8   | 15/16   | •   |   |   |
| 1-9/16  | IM503A  | IMD503  | 2-3/8   | 2-1/4 | 1-7/16  | 2-5/8   | 15/16   | •   |   |   |
| 1-5/8   | IM523A  | IMD523  | 2-3/8   | 2-1/4 | 1-5/8   | 2-3/4   | 1-1/16  | •   |   |   |
| 1-11/16   | IM543   | IMD543  | 2-9/16  | 2-3/8 | 1-5/8   | 2-3/4   | 1-1/16  | •   |   |   |
| 1-3/4   | IM563   | IMD563  | 2-5/8   | 2-3/8 | 1-23/32 | 2-7/8   | 1-5/32  | •   |   |   |
| 1-3/16  | IM583   | IMD583  | 2-3/4   | 2-3/8 | 1-23/32 | 2-15/16 | 1-3/16  | •   |   |   |
| 1-7/8   | IM603   | IMD603  | 2-3/4   | 2-3/8 | 1-23/32 | 2-15/16 | 1-3/16  | •   |   |   |
| 1-15/16   | IM623   | IMD623  | 2-3/4   | 2-3/8 | 1-23/32 | 2-15/16 | 1-3/16  | •   |   |   |
| 2   | IM643   | IMD643  | 3       | 2-3/8 | 1-31/32 | 3-1/8   | 1-9/32  | •   |   |   |
| 2-1/16  | IM663   | IMD663  | 3       | 2-3/8 | 1-31/32 | 3-1/8   | 1-9/32  |   | •   |   |
| 2-1/8   | IM683   | IMD683  | 3-1/8   | 2-3/8 | 2-3/32  | 3-1/4   | 1-9/32  |   | •   |   |
| 2-3/16  | IM703   | IMD703  | 3-1/4   | 2-3/8 | 2-5/32  | 3-11/32 | 1-7/16  |   | •   |   |
| 2-1/4   | IM723   | IMD723  | 3-1/4   | 2-3/8 | 2-5/32  | 3-11/32 | 1-7/16  |   | •   |   |
| 2-5/16  | IM743   | IMD743  | 3-3/8   | 2-3/8 | 2-5/32  | 3-1/2   | 1-1/2   |   | •   |   |
| 2-3/8   | IM763   | IMD763  | 3-1/2   | 2-3/8 | 2-5/32  | 3-1/2   | 1-1/2   |   | •   |   |
| 2-7/16  | IM783   | IMD783  | 3-1/2   | 2-3/8 | 2-5/32  | 3-1/2   | 1-1/2   |   | •   |   |
| 2-1/2   | IM803   | IMD803  | 3-1/2   | 2-3/8 | 2-1/8   | 3-5/8   | 1-5/8   |   | •   |   |
| 2-9/16  | IM823   | IMD823  | 3-5/8   | 2-3/8 | 2-1/8   | 3-5/8   | 1-5/8   |   | •   |   |
| 2-5/8   | IM843   | IMD843  | 3-3/4   | 2-3/8 | 2-5/16  | 3-3/4   | 1-5/8   |   | •   |   |
| 2-11/16   | IM863   | IMD863  | 3-3/4   | 2-3/8 | 2-1/2   | 4       | 1-13/16 |   | •   |   |
| 2-3/4   | IM883   | IMD883  | 3-3/4   | 2-3/8 | 2-7/16  | 4       | 1-13/16 |   | •   |   |
| 2-13/16   | IM903   | IMD903  | 4       | 2-3/8 | 2-7/16  | 4       | 1-13/16 |   | •   |   |
| 2-7/8   | IM923   | IMD923  | 4       | 2-3/8 | 2-7/16  | 4       | 1-13/16 |   | •   |   |
| 2-15/16   | IM943   | IMD943  | 4-1/8   | 2-3/8 | 2-5/8   | 4-1/4   | 2       |   | •   |   |
| 3   | IM963   | IMD963  | 4-1/4   | 2-3/8 | 2-5/8   | 4-1/4   | 2-1/16  |   | •   |   |
| 3-1/8   | IM1003  | IMD1003   | 4-1/4   | 2-3/8 | 2-9/16  | 4-1/4   | 2-1/16  |   | •   |   |
| 3-1/4   | IM1043  | IMD1043   | 4-1/2   | 2-3/8 | 2-9/16  | 4-1/4   | 2-1/16  |   | •   |   |
| 3-3/8   | IM1083  | IMD1083   | 4-5/8   | 2-3/8 | 2-3/4   | 4-1/2   | 2-1/4   |   | •   |   |
| 3-1/2   | IM1123  | IMD1123   | 4-3/4   | 2-3/8 | 3       | 4-3/4   | 2-1/4   |   | •   |   |
| 3-5/8   | IM1163  | IMD1163   | 5       | 2-3/8 | 2-15/16 | 4-3/4   | 2-5/16  |   |   | •   |
| 3-11/16   | IM1183  | —   | 5-5/16  | 2-3/8 | 3-3/16  | 5       | 2-7/16  |   |   | •   |
| 3-3/4   | IM1203  | IMD1203   | 5-1/8   | 2-3/8 | 2-7/8   | 4-3/4   | 2-3/8   |   |   | •   |
| 3-13/16   | IM1223  | —   | 5-3/8   | 2-3/8 | 3-1/8   | 5       | 2-1/2   |   |   | •   |
| 3-7/8   | IM1243  | IMD1243   | 5-1/4   | 2-3/8 | 3-1/8   | 5       | 2-9/16  |   |   | •   |
| 3-15/16   | IM1263  | —   | 5-3/8   | 2-3/8 | 3-3/8   | 5-1/4   | 2-9/16  |   |   | •   |
| 4   | IM1283  | IMD1283   | 5-1/2   | 2-3/8 | 3-1/16  | 5       | 2-9/16  |   |   | •   |
| 4-1/16  | IM1303  | —   | 5-1/2   | 2-3/8 | 3-1/16  | 5       | 2-9/16  |   |   | •   |
| 4-1/8   | IM1323  | IMD1323   | 5-9/16  | 2-3/8 | 3-1/16  | 5       | 2-9/16  |   |   | •   |
| 4-3/16  | IM1343  | —   | 6       | 2-3/8 | 3       | 5       | 2-9/16  |   |   | •   |
| 4-1/4   | IM1363  | IMD1363   | 5-3/4   | 2-3/8 | 3-1/4   | 5-1/4   | 2-5/8   |   |   | •   |
| 4-5/16  | IM1383  | —   | 5-25/32 | 2-3/8 | 3-7/16  | 5-1/2   | 2-5/8   |   |   | •   |
| 4-3/8   | IM1403  | —   | 5-13/16 | 2-3/8 | 3-3/16  | 5-1/4   | 2-5/8   |   |   | •   |
| 4-7/16  | IM1423  | —   | 6       | 2-3/8 | 3-3/16  | 5-1/4   | 2-11/16 |   |   | •   |
| 4-1/2   | IM1443  | IMD1443   | 6       | 2-3/8 | 3-3/16  | 5-1/4   | 2-5/8   |   |   | •   |
| 4-9/16  | IM1463  | —   | 6-1/2   | 2-3/8 | 3-7/16  | 5-1/2   | 2-3/4   |   |   | •   |
| 4-5/8   | IM1483  | —   | 6-7/16  | 2-3/8 | 3-7/8   | 6       | 3-1/16  |   |   | •   |
| 4-3/4   | IM1523  | —   | 6-5/8   | 2-3/8 | 3-5/8   | 5-3/4   | 2-7/8   |   |   | •   |
| 4-7/8   | IM1563  | —   | 7       | 2-3/8 | 3-9/16  | 5-3/4   | 3       |   |   | •   |
| 5   | IM1603  | —   | 7       | 2-3/8 | 3-1/2   | 5-3/4   | 3       |   |   | •   |
| 5-3/8   | IM1723  | —   | 7-1/2   | 2-3/8 | 4-7/16  | 6-3/4   | 3-9/16  |   |   | •   |
| 5-3/4   | IM1843  | —   | 8-1/4   | 2-3/8 | 4-5/16  | 6-3/4   | 3-9/16  |   |   | •   |



IM703

1" DRIVE TOOLS

## FLANK DRIVE® IMPACT SOCKETS



**SIM563**

Deep, inches

Set Contains:  
 519SM  
 520SM  
 517SM

|         |          |          | A       | B     | C       | D     | E       |   |   |  |
|---------|----------|----------|---------|-------|---------|-------|---------|---|---|--|
| 7/8     | SIM283   | —        | 1-19/32 | 2-1/8 | 1-13/16 | 3     | 5/8     | • |   |  |
| 15/16   | SIM303   | —        | 1-19/32 | 2-1/8 | 1-13/16 | 3     | 11/16   | • |   |  |
| 1       | SIM323   | SIMD323  | 1-19/32 | 2-1/8 | 1-13/16 | 3     | 3/4     | • |   |  |
| 1-1/16  | SIM343   | —        | 1-3/4   | 2-1/8 | 1-13/16 | 3     | 3/4     | • |   |  |
| 1-1/8   | SIM363   | —        | 1-13/16 | 2-1/8 | 1-13/16 | 3     | 3/4     | • |   |  |
| 1-3/16  | SIM383   | —        | 1-13/16 | 2-1/8 | 1-13/16 | 3     | 3/4     | • |   |  |
| 1-1/4   | SIM403*  | SIMD403* | 2-1/16  | 2-1/8 | 2-1/196 | 3-1/4 | 7/8     | • |   |  |
| 1-5/16  | SIM423   | —        | 2-1/16  | 2-1/8 | 2-1/196 | 3-1/4 | 7/8     | • |   |  |
| 1-3/8   | SIM443   | —        | 2-1/16  | 2-1/8 | 2-1/196 | 3-1/4 | 7/8     | • |   |  |
| 1-7/16  | SIM463A  | SIMD463  | 2-1/4   | 2-1/8 | 2-3/32  | 3-1/4 | 29/32   | • |   |  |
| 1-1/2   | SIM483B  | —        | 2-3/8   | 2-1/4 | 2-11/32 | 3-1/2 | 1       | • |   |  |
| 1-9/16  | SIM503A  | —        | 2-3/8   | 2-1/4 | 2-11/32 | 3-1/2 | 1       | • |   |  |
| 1-5/8   | SIM523B  | —        | 2-3/8   | 2-1/4 | 2-1/2   | 3-5/8 | 1       | • |   |  |
| 1-11/16 | SIM543   | SIMD543  | 2-1/2   | 2-3/8 | 2-7/16  | 3-5/8 | 1-1/8   | • |   |  |
| 1-3/4   | SIM563   | —        | 2-3/4   | 2-3/8 | 2-11/16 | 3-7/8 | 1-1/8   | • |   |  |
| 1-13/16 | SIM583   | —        | 2-3/4   | 2-3/8 | 2-11/16 | 3-7/8 | 1-3/16  | • |   |  |
| 1-7/8   | SIM603   | —        | 2-3/4   | 2-3/8 | 2-11/16 | 3-7/8 | 1-3/16  | • |   |  |
| 1-15/16 | SIM623   | —        | 3       | 2-3/8 | 2-15/16 | 4-1/8 | 1-1/4   | • |   |  |
| 2       | SIM643   | —        | 3       | 2-3/8 | 2-15/16 | 4-1/8 | 1-5/16  | • |   |  |
| 2-1/16  | SIM663   | —        | 3       | 2-1/4 | 2-15/16 | 4-1/4 | 1-5/16  |   | • |  |
| 2-1/8   | SIM683   | —        | 3-1/8   | 2-1/4 | 2-7/8   | 4-1/4 | 1-5/16  |   | • |  |
| 2-3/16  | SIM703   | —        | 3-1/4   | 2-1/4 | 3-1/8   | 4-1/2 | 1-1/2   |   | • |  |
| 2-1/4   | SIM723   | —        | 3-1/4   | 2-3/8 | 3-1/8   | 4-1/2 | 1-1/2   |   | • |  |
| 2-5/16  | SIM743   | —        | 3-3/8   | 2-3/8 | 3-1/16  | 4-1/2 | 1-1/2   |   | • |  |
| 2-3/8   | SIM763   | —        | 3-1/2   | 2-3/8 | 3-1/16  | 4-1/2 | 1-1/2   |   | • |  |
| 2-7/16  | SIM783   | —        | 3-1/2   | 2-3/8 | 3-1/16  | 4-1/2 | 1-1/2   |   | • |  |
| 2-1/2   | SIM803   | —        | 3-1/2   | 2-3/8 | 3-1/4   | 4-3/4 | 1-5/8   |   | • |  |
| 2-9/16  | SIM823   | —        | 3-5/8   | 2-3/8 | 3-1/4   | 4-3/4 | 1-5/8   |   | • |  |
| 2-5/8   | SIM843** | —        | 3-3/4   | 2-3/8 | 3-1/4   | 4-3/4 | 1-5/8   |   | • |  |
| 2-11/16 | SIM863   | —        | 3-3/4   | 2-3/8 | 3-1/2   | 5     | 1-13/16 |   | • |  |
| 2-3/4   | SIM883   | —        | 3-3/4   | 2-3/8 | 3-7/16  | 5     | 1-13/16 |   | • |  |
| 2-13/16 | SIM903   | —        | 4       | 2-3/8 | 3-7/16  | 5     | 1-3/4   |   | • |  |
| 2-7/8   | SIM923   | —        | 4       | 2-3/8 | 3-7/16  | 5     | 1-3/4   |   | • |  |
| 2-15/16 | SIM943   | —        | 4-1/8   | 2-3/8 | 3-3/8   | 5     | 1-3/4   |   | • |  |
| 3       | SIM963   | —        | 4-1/4   | 2-3/8 | 3-5/8   | 5-1/4 | 1-3/4   |   | • |  |
| 3-1/8   | SIM1003  | —        | 4-1/4   | 2-3/8 | 3-9/16  | 5-1/4 | 1-7/8   |   | • |  |
| 3-1/4   | SIM1043  | —        | 4-1/2   | 2-3/8 | 3-9/16  | 5-1/4 | 1-7/8   |   | • |  |
| 3-3/8   | SIM1083  | —        | 4-1/2   | 2-3/8 | 4       | 5-3/4 | 2-1/4   |   | • |  |
| 3-1/2   | SIM1123  | —        | 4-3/4   | 2-3/8 | 4       | 5-3/4 | 2-1/4   |   | • |  |
| 3-5/8   | SIM1163  | —        | 5       | 2-3/8 | 3-15/16 | 5-3/4 | 2-1/4   |   | • |  |
| 3-11/16 | SIM1183  | —        | 5-5/16  | 2-3/8 | 3-15/16 | 5-3/4 | 2-7/16  |   | • |  |
| 3-3/4   | SIM1203  | —        | 5-1/8   | 2-3/8 | 3-7/8   | 5-3/4 | 2-1/4   |   | • |  |
| 3-13/16 | SIM1223  | —        | 5-3/8   | 2-3/8 | 4-1/8   | 6     | 2-1/2   |   | • |  |
| 3-7/8   | SIM1243  | —        | 5-1/4   | 2-3/8 | 4-3/8   | 6-1/4 | 2-9/16  |   | • |  |
| 3-15/16 | SIM1263  | —        | 5-1/2   | 2-3/8 | 4-3/8   | 6-1/4 | 2-3/8   |   | • |  |
| 4       | SIM1283  | —        | 5-1/2   | 2-3/8 | 4-5/16  | 6-1/4 | 2-9/16  |   | • |  |
| 4-1/16  | SIM1303  | —        | 5-1/2   | 2-3/8 | 4-5/16  | 6-1/4 | 2-1/2   |   | • |  |
| 4-1/8   | SIM1323  | —        | 5-9/16  | 2-3/8 | 4-5/16  | 6-1/4 | 2-9/16  |   | • |  |
| 4-3/16  | SIM1343  | —        | 6       | 2-3/8 | 4-1/4   | 6-1/4 | 2-1/2   |   | • |  |
| 4-7/16  | SIM1423  | —        | 6       | 2-3/8 | 4-3/16  | 6-1/4 | 2-11/16 |   | • |  |
| 4-1/2   | SIM1443  | —        | 6       | 2-3/8 | 4-7/16  | 6-1/2 | 2-3/4   |   | • |  |
| 4-9/16  | SIM1463  | —        | 6-1/2   | 2-3/8 | 4-7/16  | 6-1/2 | 2-3/4   |   | • |  |
| 4-5/8   | SIM1483  | —        | 6-5/8   | 2-3/8 | 4-3/8   | 6-1/2 | 2-13/16 |   | • |  |
| 4-3/4   | SIM1523  | —        | 6-5/8   | 2-3/8 | 4-5/8   | 6-3/4 | 2-7/8   |   | • |  |
| 4-7/8   | SIM1563  | —        | 7       | 2-3/8 | 4-9/16  | 6-3/4 | 3       |   | • |  |
| 5       | SIM1603  | —        | 7       | 2-3/8 | 4-1/2   | 6-3/4 | 3       |   | • |  |
| 5-3/8   | SIM1723  | —        | 7-1/2   | 2-3/8 | 5-7/16  | 7-3/4 | 3-9/16  |   | • |  |
| 5-3/4   | SIM1843  | —        | 8-1/4   | 2-3/8 | 5-5/16  | 7-3/4 | 3-9/16  |   | • |  |

\*Applications include use on heavy duty wheel lug nuts.

\*\*Applications include use on wheel lug nuts on stud piloted/budd style wheel systems.

# FLANK DRIVE® IMPACT SOCKETS

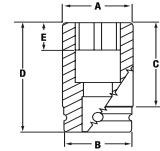
1" DRIVE TOOLS

## Deep, mm

| mm | 6              | A     | B     | C     | D    | E     |
|----|----------------|-------|-------|-------|------|-------|
| 30 | <b>SIMM303</b> | 46.0  | 53.7  | 46.0  | 76.2 | 19.1  |
| 32 | <b>SIMM323</b> | 52.3  | 53.7  | 76.2  | 82.6 | 22.4  |
| 33 | <b>SIMM333</b> | 52.3  | 53.7  | 53.3  | 82.5 | 22.4  |
| 38 | <b>SIMM383</b> | 60.3  | 57.2  | 59.7  | 88.9 | 25.4  |
| 70 | <b>SIMM703</b> | 97.61 | 60.45 | 95.45 | 127  | 43.69 |



**SIMM323**



## Shallow Thin Wall, mm

| mm | 6               | A    | B    | C    | D     | E    |
|----|-----------------|------|------|------|-------|------|
| 50 | <b>IMM503TW</b> | 65   | 57.2 | 49   | 82.6  | 34.8 |
| 55 | <b>IMM553TW</b> | 75.9 | 60.5 | 53.8 | 88.9  | 34.8 |
| 70 | <b>IMM705TW</b> | 91.2 | 82.6 | 67.5 | 114.3 | 44.3 |



**IMM503TW**

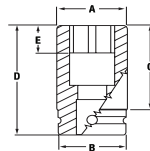


**IMM705TW**

## SPECIAL APPLICATION IMPACT SOCKETS



**IM724**



**IM740**

## Single Square/Shallow, inches

| 4     | A            | B       | C     | D      | E     |       |
|-------|--------------|---------|-------|--------|-------|-------|
| 3/4   | <b>IM724</b> | 1-15/16 | 2-1/8 | 31/32  | 2-1/8 | 21/32 |
| 13/16 | <b>IM726</b> | 1-15/16 | 2-1/8 | 31/32  | 2-1/8 | 21/32 |
| 7/8   | <b>IM728</b> | 2-1/16  | 2-1/8 | 31/32  | 2-1/8 | 21/32 |
| 15/16 | <b>IM730</b> | 2-1/16  | 2-1/8 | 15/16  | 2-1/8 | 5/8   |
| 1     | <b>IM732</b> | 2-1/8   | 2-1/8 | 1-3/32 | 2-1/4 | 25/32 |
| 1-1/8 | <b>IM736</b> | 2-1/4   | 2-1/4 | 1-3/32 | 2-1/4 | 25/32 |

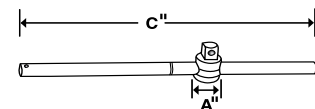
## Double Square/Shallow, inches

| 8     | A            | B     | C     | D     | E     |       |
|-------|--------------|-------|-------|-------|-------|-------|
| 1-1/4 | <b>IM740</b> | 2-3/8 | 2-3/8 | 1-1/8 | 2-3/8 | 13/16 |

## 1-1/2" DRIVE HANDLES

### Sliding T-Handle, Industrial (1-1/2")

| Stock No.  | C  | Sliding Head Only Stock No. | A     | Handle Stock No. |
|------------|----|-----------------------------|-------|------------------|
| <b>L55</b> | 36 | L55-2                       | 2-7/8 | L55-1            |



**L55**



**WARNING**

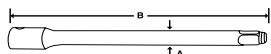


- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

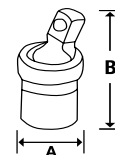
## 1-1/2" AND #5 SPLINE DRIVE IMPACT ACCESSORIES



IM105



IP85



### Extensions with Pin Hole (1-1/2")

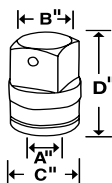
| Stock No. | A | B  |
|-----------|---|----|
| IM105     | 2 | 10 |
| IM155     | 2 | 15 |
| IM205     | 2 | 20 |

### Swivel Universal Joint with Pin Hole (1-1/2")

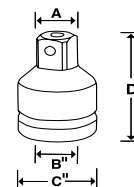
| Stock No. | Retention Type | A     | B      |
|-----------|----------------|-------|--------|
| IP85      | Pin Hole       | 3-5/8 | 6-1/16 |



IM53



IMSA3



### Adaptors with Pin Hole (1-1/2")

| Stock No. | A     | B     | C     | D     |
|-----------|-------|-------|-------|-------|
| IM35      | 1     | 1-1/2 | 2-1/4 | 3-1/2 |
| IM53      | 1-1/2 | 1     | 3-1/4 | 4-1/4 |
| IM59      | 1-1/2 | 2-1/2 | 3-1/4 | 4-3/4 |
| IM95      | 2-1/2 | 1-1/2 | 5     | 6-3/8 |

### Spline-to-Square Adaptor

| Stock No. | A         | B               | C     | D     |
|-----------|-----------|-----------------|-------|-------|
| IMSA3     | 1" Square | No. 5, 14 Tooth | 2-3/8 | 3-3/8 |

### Ring and Pin Chart for Impact Sockets and Accessories (1", 1-1/2", #5 Spline Drive)



IM243R



IM243P



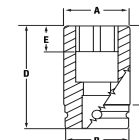
IMR3

| Stock No. | Description                   | Use with  |
|-----------|-------------------------------|---|
| IM243R    | Synthetic Rubber Locking Ring | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm) Plus IM124 Adaptor            |
| IM243P    | Steel Locking Pin             | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm)                               |
| IMR3      | Socket Retainer               | All 1" Drive Sockets/Accessories, All #5 Spline Drive Sockets/Accessories       |
| IM483R    | Rubber Locking Ring           | All Spline Drive Sockets/Accessories Plus 1" Drive Sockets from 1-7/16" (35 mm) |
| IM483P    | Steel Locking Pin             | All Spline Drive Sockets/Accessories Plus 1" Drive Sockets from 1-7/16" (35 mm) |
| IM445R    | Rubber Locking Ring           | All 1-1/2" Drive Sockets/Accessories  |

## FLANK DRIVE® IMPACT SOCKETS



IMM365



### Shallow, mm

| mm | 6      | A    | B    | C    | D    | E    |
|----|--------|------|------|------|------|------|
| 36 | IMM365 | 73.0 | 82.6 | 34.5 | 76.2 | 25.4 |
| 38 | IMM385 | 73.0 | 82.6 | 34.5 | 76.2 | 25.4 |
| 41 | IMM415 | 73.0 | 82.6 | 34.5 | 76.2 | 27.7 |
| 46 | IMM465 | 79.4 | 82.6 | 40.9 | 82.6 | 29.7 |
| 50 | IMM505 | 79.4 | 82.6 | 47.2 | 88.9 | 31.8 |
| 55 | IMM555 | 88.9 | 82.6 | 47.2 | 88.9 | 35.6 |

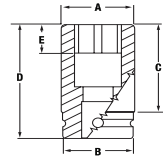
| mm | 6      | A     | B    | C    | D     | E    |
|----|--------|-------|------|------|-------|------|
| 60 | IMM605 | 94.5  | 82.6 | 58.2 | 101.6 | 38.6 |
| 65 | IMM655 | 99.2  | 82.6 | 56.6 | 101.6 | 41.4 |
| 70 | IMM705 | 105.6 | 82.6 | 61.7 | 108.0 | 45.7 |
| 75 | IMM755 | 111.1 | 82.6 | 66.5 | 114.3 | 47.2 |
| 80 | IMM805 | 116.6 | 82.6 | 77.2 | 127   | 50.7 |

# FLANK DRIVE® IMPACT SOCKETS

Shallow, inches

Set Contains: 619IM 616IM 618IM 609IM

|         | 6      | 12      | A       | B     | C     | D     | E       | 6 | 6 | 6 | 6 |
|---------|--------|---------|---------|-------|-------|-------|---------|---|---|---|---|
| 1-3/8   | IM445  | IMD445  | 2-7/8   | 3-1/4 | 1-3/8 | 3     | 1       | • |   |   |   |
| 1-7/16  | IM465  | IMD465  | 2-7/8   | 3-1/4 | 1-3/8 | 3     | 1       | • |   |   |   |
| 1-1/2   | IM485  | IMD485  | 3       | 3-1/4 | 1-3/8 | 3     | 1       | • |   |   |   |
| 1-9/16  | IM505  | —       | 3       | 3-1/4 | 1-3/8 | 3     | 1       | • |   |   |   |
| 1-5/8   | IM525  | IMD525  | 2-7/8   | 3-1/4 | 1-3/8 | 3     | 1-1/16  | • |   |   |   |
| 1-11/16 | IM545  | IMD545  | 3       | 3-1/4 | 1-3/8 | 3     | 1-1/16  | • |   |   |   |
| 1-3/4   | IM565  | IMD565  | 3-1/8   | 3-1/4 | 1-5/8 | 3-1/4 | 1-1/8   | • |   |   |   |
| 1-13/16 | IM585  | —       | 3-1/8   | 3-1/4 | 1-5/8 | 3-1/4 | 1-3/16  | • |   |   |   |
| 1-7/8   | IM605  | IMD605  | 3-1/8   | 3-1/4 | 1-7/8 | 3-1/2 | 1-3/16  | • |   |   |   |
| 1-15/16 | IM625A | —       | 3-1/8   | 3-1/4 | 1-7/8 | 3-1/2 | 1-1/4   | • |   |   |   |
| 2       | IM645  | IMD645  | 3-1/2   | 3-1/4 | 1-7/8 | 3-1/2 | 1-1/4   | • |   |   |   |
| 2-1/16  | IM665  | IMD665  | 3-1/2   | 3-1/4 | 1-7/8 | 3-1/2 | 1-7/16  | • |   |   |   |
| 2-1/8   | IM685  | —       | 3-1/2   | 3-1/4 | 1-7/8 | 3-1/2 | 1-7/16  | • |   |   |   |
| 2-3/16  | IM705  | —       | 3-1/2   | 3-1/4 | 1-7/8 | 3-1/2 | 1-1/2   | • |   |   |   |
| 2-1/4   | IM725A | —       | 3-3/4   | 3-1/4 | 2-1/8 | 3-3/4 | 1-7/16  | • |   |   |   |
| 2-5/16  | IM745  | —       | 3-3/4   | 3-1/4 | 2     | 3-3/4 | 1-1/2   | • |   |   |   |
| 2-3/8   | IM765  | IMD765  | 3-7/8   | 3-1/4 | 2-1/4 | 4     | 1-1/2   | • |   |   |   |
| 2-7/16  | IM785  | —       | 3-7/8   | 3-1/4 | 2-1/4 | 4     | 1-9/16  | • |   |   |   |
| 2-1/2   | IM805  | IMD805  | 3-7/8   | 3-1/4 | 2-1/4 | 4     | 1-5/8   | • |   |   |   |
| 2-9/16  | IM825  | —       | 3-7/8   | 3-1/4 | 2-1/4 | 4     | 1-5/8   |   | • |   |   |
| 2-5/8   | IM845  | IMD845  | 4-1/16  | 3-1/4 | 2-1/2 | 4-1/4 | 1-11/16 |   | • |   |   |
| 2-11/16 | IM865  | IMD865  | 4-1/8   | 3-1/4 | 2-1/2 | 4-1/4 | 1-11/16 |   | • |   |   |
| 2-3/4   | IM885  | —       | 4-1/4   | 3-1/4 | 2-3/8 | 4-1/4 | 1-13/16 |   | • |   |   |
| 2-13/16 | IM905  | —       | 4-3/8   | 3-1/4 | 2-3/8 | 4-1/4 | 1-13/16 |   | • |   |   |
| 2-7/8   | IM925  | IMD925  | 4-3/8   | 3-1/4 | 2-3/8 | 4-1/4 | 1-13/16 |   | • |   |   |
| 2-15/16 | IM945  | IMD945  | 4-3/8   | 3-1/4 | 2-5/8 | 4-1/2 | 1-15/16 |   | • |   |   |
| 3       | IM965  | IMD965  | 4-7/16  | 3-1/4 | 2-5/8 | 4-1/2 | 1-15/16 |   | • |   |   |
| 3-1/16  | IM985  | —       | 4-11/16 | 3-1/4 | 2-5/8 | 4-1/2 | 1-15/16 |   | • |   |   |
| 3-1/8   | IM1005 | —       | 4-3/4   | 3-1/4 | 2-7/8 | 4-3/4 | 2       |   | • |   |   |
| 3-3/16  | IM1025 | —       | 4-3/4   | 3-1/4 | 2-1/2 | 4-1/2 | 2       |   | • |   |   |
| 3-1/4   | IM1045 | IMD1045 | 4-3/4   | 3-1/4 | 2-3/4 | 4-3/4 | 2-1/8   |   | • |   |   |
| 3-5/16  | IM1065 | —       | 5       | 3-1/4 | 2-3/4 | 4-3/4 | 2-1/8   |   | • |   |   |
| 3-3/8   | IM1085 | —       | 5       | 3-1/4 | 2-3/4 | 4-3/4 | 2-1/4   |   | • |   |   |
| 3-7/16  | IM1105 | —       | 5       | 3-1/4 | 3     | 5     | 2-1/4   |   | • |   |   |
| 3-1/2   | IM1125 | —       | 5-1/8   | 3-1/4 | 3     | 5     | 2-1/4   |   | • |   |   |
| 3-9/16  | IM1145 | —       | 5-1/8   | 3-1/4 | 2-7/8 | 5     | 2-1/4   |   |   | • |   |
| 3-5/8   | IM1165 | —       | 5-1/8   | 3-1/4 | 2-7/8 | 5     | 2-5/16  |   |   | • |   |
| 3-11/16 | IM1185 | —       | 5-1/4   | 3-1/4 | 3-1/8 | 5-1/4 | 2-3/8   |   |   | • |   |
| 3-3/4   | IM1205 | —       | 5-3/8   | 3-1/4 | 3-1/8 | 5-1/4 | 2-1/2   |   |   | • |   |
| 3-13/16 | IM1225 | —       | 5-3/8   | 3-1/4 | 3-1/8 | 5-1/4 | 2-1/2   |   |   | • |   |
| 3-7/8   | IM1245 | —       | 5-1/2   | 3-1/4 | 3-1/8 | 5-1/4 | 2-9/16  |   |   | • |   |
| 3-15/16 | IM1265 | —       | 5-1/2   | 3-1/4 | 3-1/8 | 5-1/4 | 2-9/16  |   |   | • |   |
| 4       | IM1285 | —       | 5-5/8   | 3-1/4 | 3-1/4 | 5-1/2 | 2-5/8   |   |   | • |   |
| 4-1/16  | IM1305 | —       | 5-3/4   | 3-1/4 | 3-1/4 | 5-1/2 | 2-11/16 |   |   | • |   |
| 4-1/8   | IM1325 | —       | 5-13/16 | 3-1/4 | 3-1/4 | 5-1/2 | 2-3/4   |   |   | • |   |
| 4-1/4   | IM1365 | —       | 6       | 3-1/4 | 3-1/2 | 5-3/4 | 2-3/4   |   |   | • |   |
| 4-5/16  | IM1385 | —       | 6-1/4   | 3-1/4 | 3-1/2 | 5-3/4 | 2-7/8   |   |   | • |   |
| 4-3/8   | IM1405 | —       | 6-1/4   | 3-1/4 | 3-3/8 | 5-3/4 | 2-15/16 |   |   | • |   |
| 4-7/16  | IM1425 | —       | 6-1/4   | 3-1/4 | 3-3/8 | 5-3/4 | 3       |   |   | • |   |
| 4-1/2   | IM1445 | —       | 6-1/4   | 3-1/4 | 3-5/8 | 6     | 3-1/8   |   |   | • |   |
| 4-5/8   | IM1485 | —       | 6-1/2   | 3-1/4 | 3-7/8 | 6-1/4 | 3-1/8   |   |   | • |   |
| 4-3/4   | IM1525 | —       | 6-9/16  | 3-1/4 | 3-7/8 | 6-1/4 | 3-1/8   |   |   | • |   |
| 4-7/8   | IM1565 | —       | 6-11/16 | 3-1/4 | 3-3/4 | 6-1/4 | 3-3/16  |   |   | • |   |
| 5       | IM1605 | —       | 6-7/8   | 3-1/4 | 3-3/4 | 6-1/4 | 3-3/16  |   |   |   | • |
| 5-3/8   | IM1725 | —       | 7-5/16  | 3-1/4 | 3-5/8 | 6-1/4 | 3-7/16  |   |   |   | • |
| 5-3/4   | IM1845 | —       | 7-11/16 | 3-1/4 | 4-1/2 | 7-1/4 | 3-11/16 |   |   |   | • |
| 6-1/8   | IM1965 | —       | 8       | 3-1/4 | 4-3/8 | 7-1/4 | 3-15/16 |   |   |   | • |
| 6-1/2   | IM2085 | —       | 8-3/8   | 3-1/4 | 5     | 8     | 4-3/16  |   |   |   | • |
| 6-7/8   | IM2205 | —       | 8-13/16 | 3-1/4 | 4-7/8 | 8     | 4-3/8   |   |   |   | • |
| 7-1/4   | IM2325 | —       | 9-3/16  | 3-1/4 | 6-1/8 | 9-1/4 | 4-5/8   |   |   |   | • |
| 7-5/8   | IM2445 | —       | 9-1/2   | 3-1/4 | 6-1/4 | 9-1/2 | 4-7/8   |   |   |   | • |
| 8       | IM2565 | —       | 10      | 3-1/4 | 6-5/8 | 10    | 5-1/8   |   |   |   | • |



IM445

1-1/2" DRIVE TOOLS



**WARNING**

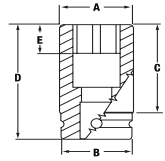


• Read safety precautions on pages W1 to W4



# FLANK DRIVE® IMPACT SOCKETS



**SIM485**



Deep, inches

|  |  | A       | B     | C     | D     | E       |
|---|---|---------|-------|-------|-------|---------|
| 1-3/16  | <b>SIM445</b>   | 2-7/8   | 3-1/4 | 2-5/8 | 4-1/4 | 1       |
| 1-7/16  | <b>SIM465</b>   | 2-7/8   | 3-1/4 | 2-5/8 | 4-1/4 | 1       |
| 1-1/2   | <b>SIM485</b>   | 2-7/8   | 3-1/4 | 2-5/8 | 4-1/4 | 1       |
| 1-5/8   | <b>SIM525</b>   | 2-7/8   | 3-1/4 | 2-5/8 | 4-1/4 | 1-1/8   |
| 1-11/16   | <b>SIM545</b>   | 3       | 3-1/4 | 2-5/8 | 4-1/4 | 1-1/8   |
| 2   | <b>SIM645</b>   | 3-3/8   | 3-1/4 | 3-1/8 | 4-3/4 | 1-1/4   |
| 2-1/16  | <b>SIM665</b>   | 3-7/16  | 3-1/4 | 3-1/8 | 4-3/4 | 1-5/16  |
| 2-3/16  | <b>SIM705</b>   | 3-1/2   | 3-1/4 | 3-3/8 | 5     | 1-3/8   |
| 2-1/4   | <b>SIM725</b>   | 3-9/16  | 3-1/4 | 3-5/8 | 5-1/4 | 1-1/2   |
| 2-5/16  | <b>SIM745</b>   | 3-5/8   | 3-1/4 | 3-1/2 | 5-1/4 | 1-9/16  |
| 2-3/8   | <b>SIM765</b>   | 3-3/4   | 3-1/4 | 3-1/2 | 5-1/4 | 1-9/16  |
| 2-7/16  | <b>SIM785</b>   | 3-3/4   | 3-1/4 | 3-1/2 | 5-1/4 | 1-9/16  |
| 2-1/2   | <b>SIM805</b>   | 3-7/8   | 3-1/4 | 3-1/2 | 5-1/4 | 1-5/8   |
| 2-9/16  | <b>SIM825</b>   | 3-7/8   | 3-1/4 | 3-3/4 | 5-1/2 | 1-5/8   |
| 2-5/8   | <b>SIM845</b>   | 4       | 3-1/4 | 3-3/4 | 5-1/2 | 1-11/16 |
| 2-11/16   | <b>SIM865</b>   | 4-1/8   | 3-1/4 | 3-3/4 | 5-1/2 | 1-3/4   |
| 2-3/4   | <b>SIM885</b>   | 4-1/8   | 3-1/4 | 3-5/8 | 5-1/2 | 1-13/16 |
| 2-13/16   | <b>SIM905</b>   | 4-1/4   | 3-1/4 | 3-7/8 | 5-3/4 | 1-13/16 |
| 2-7/8   | <b>SIM925</b>   | 4-5/16  | 3-1/4 | 3-7/8 | 5-3/4 | 1-7/8   |
| 2-15/16   | <b>SIM945</b>   | 4-3/8   | 3-1/4 | 3-7/8 | 5-3/4 | 1-15/16 |
| 3   | <b>SIM965</b>   | 4-7/16  | 3-1/4 | 4-1/8 | 6     | 1-15/16 |
| 3-1/16  | <b>SIM985</b>   | 4-9/16  | 3-1/4 | 4-1/8 | 6     | 2       |
| 3-1/8   | <b>SIM1005</b>  | 4-5/8   | 3-1/4 | 4-1/8 | 6     | 2-1/16  |
| 3-3/16  | <b>SIM1025</b>  | 4-11/16 | 3-1/4 | 4-1/4 | 6-1/4 | 2-1/8   |
| 3-1/4   | <b>SIM1045</b>  | 4-3/4   | 3-1/4 | 4-1/4 | 6-1/4 | 2-1/8   |
| 3-5/16  | <b>SIM1065</b>  | 4-7/8   | 3-1/4 | 4-1/4 | 6-1/4 | 2-3/16  |
| 3-3/8   | <b>SIM1085</b>  | 4-15/16 | 3-1/4 | 4-1/4 | 6-1/4 | 2-1/4   |
| 3-7/16  | <b>SIM1105</b>  | 5       | 3-1/4 | 4-1/2 | 6-1/2 | 2-1/4   |
| 3-1/2   | <b>SIM1125</b>  | 5-1/16  | 3-1/4 | 4-1/2 | 6-1/2 | 2-5/16  |
| 3-9/16  | <b>SIM1145</b>  | 5-1/8   | 3-1/4 | 4-3/8 | 6-1/2 | 2-3/8   |
| 3-5/8   | <b>SIM1165</b>  | 5-1/4   | 3-1/4 | 4-5/8 | 6-3/4 | 2-7/16  |
| 3-11/16   | <b>SIM1185</b>  | 5-5/16  | 3-1/4 | 4-5/8 | 6-3/4 | 2-7/16  |
| 3-3/4   | <b>SIM1205</b>  | 5-3/8   | 3-1/4 | 4-5/8 | 6-3/4 | 2-1/2   |
| 3-13/16   | <b>SIM1225</b>  | 5-7/16  | 3-1/4 | 4-7/8 | 7     | 2-1/2   |
| 3-7/8   | <b>SIM1245</b>  | 5-1/2   | 3-1/4 | 4-7/8 | 7     | 2-9/16  |
| 3-15/16   | <b>SIM1265</b>  | 5-5/8   | 3-1/4 | 5-1/8 | 7-1/4 | 2-9/16  |
| 4   | <b>SIM1285</b>  | 5-5/8   | 3-1/4 | 5     | 7-1/4 | 2-5/8   |
| 4-1/16  | <b>SIM1305</b>  | 5-3/4   | 3-1/4 | 5-1/4 | 7-1/2 | 2-11/16 |
| 4-1/8   | <b>SIM1325</b>  | 5-13/16 | 3-1/4 | 5-1/4 | 7-1/2 | 2-3/4   |
| 4-1/4   | <b>SIM1365</b>  | 6       | 3-1/4 | 5-1/2 | 7-3/4 | 2-13/16 |
| 4-5/16  | <b>SIM1385</b>  | 6-1/4   | 3-1/4 | 5-1/2 | 7-3/4 | 3       |
| 4-3/8   | <b>SIM1405</b>  | 6-1/4   | 3-1/4 | 5-3/8 | 7-3/4 | 3       |
| 4-1/2   | <b>SIM1445</b>  | 6-1/4   | 3-1/4 | 5-5/8 | 8     | 3       |
| 4-5/8   | <b>SIM1485</b>  | 6-3/8   | 3-1/4 | 5-5/8 | 8     | 3-1/16  |
| 4-3/4   | <b>SIM1525</b>  | 6-1/2   | 3-1/4 | 5-5/8 | 8     | 3-1/16  |

## Locking Rings and Pins for 1-1/2" and 2-1/2" Extensions, Adaptors, Impact Sockets



**IM445R**

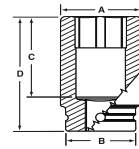


**IM729P**

| Stock No.     | Description                   | Use with   |
|---------------|-------------------------------|--|
| <b>IM243R</b> | Synthetic Rubber Locking Ring | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm) Plus IM124 Adaptor |
| <b>IM243P</b> | Steel Locking Pin             | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm)                    |
| <b>IM445R</b> | Rubber Locking Ring           | All 1-1/2" Drive Sockets/Accessories                                 |
| <b>IM729P</b> | Steel Locking Pin             | All 2-1/2" Drive Sockets/Accessories                                 |



# FLANK DRIVE® IMPACT SOCKETS



Shallow, inches

IM2209

Set  
Contains:

716JM

713JM

714JM

711JM

| Shallow, inches | Part Number | A       | B | C       | D     | 716JM | 713JM | 714JM | 711JM |
|-----------------|-------------|---------|---|---------|-------|-------|-------|-------|-------|
| 2               | IM649       | 3-7/16  | 5 | 2-31/32 | 5-1/2 | •     |       |       |       |
| 2-3/16          | IM709       | 3-21/32 | 5 | 3-7/32  | 5-3/4 | •     |       |       |       |
| 2-1/4           | IM729       | 3-23/32 | 5 | 3-7/32  | 5-3/4 | •     |       |       |       |
| 2-3/8           | IM769       | 3-7/8   | 5 | 3-15/32 | 6     | •     |       |       |       |
| 2-1/2           | IM809       | 4       | 5 | 3-15/32 | 6     | •     |       |       |       |
| 2-9/16          | IM829       | 4-3/32  | 5 | 3-15/32 | 6     | •     |       |       |       |
| 2-5/8           | IM849       | 4-5/32  | 5 | 3-15/32 | 6     | •     |       |       |       |
| 2-3/4           | IM889       | 4-5/16  | 5 | 3-23/32 | 6-1/4 | •     |       |       |       |
| 2-7/8           | IM929       | 4-7/16  | 5 | 3-23/32 | 6-1/4 | •     |       |       |       |
| 2-15/16         | IM949       | 4-17/32 | 5 | 3-23/32 | 6-1/4 | •     |       |       |       |
| 3               | IM969       | 4-19/32 | 5 | 3-23/32 | 6-1/4 | •     |       |       |       |
| 3-1/8           | IM1009      | 4-3/4   | 5 | 3-31/32 | 6-1/2 | •     |       |       |       |
| 3-1/4           | IM1049      | 5       | 5 | 3-31/32 | 6-1/2 | •     |       |       |       |
| 3-3/8           | IM1089      | 5       | 5 | 3-31/32 | 6-1/2 | •     |       |       |       |
| 3-7/16          | IM1109      | 5       | 5 | 4-7/32  | 6-3/4 | •     |       |       |       |
| 3-1/2           | IM1129      | 5-3/16  | 5 | 4-7/32  | 6-3/4 | •     |       |       |       |
| 3-5/8           | IM1169      | 5-5/16  | 5 | 4-7/32  | 6-3/4 |       | •     |       |       |
| 3-3/4           | IM1209      | 5-15/32 | 5 | 4-15/32 | 7     |       | •     |       |       |
| 3-7/8           | IM1249      | 5-5/8   | 5 | 4-15/32 | 7     |       | •     |       |       |
| 4               | IM1289      | 5-3/4   | 5 | 4-15/32 | 7     |       | •     |       |       |
| 4-1/16          | IM1309      | 5-27/32 | 5 | 4-15/32 | 7     |       | •     |       |       |
| 4-1/8           | IM1329      | 5-29/32 | 5 | 4-23/32 | 7-1/4 |       | •     |       |       |
| 4-1/4           | IM1369      | 6-1/16  | 5 | 4-23/32 | 7-1/4 |       | •     |       |       |
| 4-3/8           | IM1409      | 6-7/32  | 5 | 4-23/32 | 7-1/4 |       | •     |       |       |
| 4-1/2           | IM1449      | 6-11/32 | 5 | 4-31/32 | 7-1/2 |       | •     |       |       |
| 4-5/8           | IM1489      | 6-1/2   | 5 | 4-31/32 | 7-1/2 |       | •     |       |       |
| 4-3/4           | IM1529      | 6-21/32 | 5 | 4-31/32 | 7-1/2 |       | •     |       |       |
| 4-7/8           | IM1569      | 6-25/32 | 5 | 5-7/32  | 7-3/4 |       | •     |       |       |
| 5               | IM1609      | 6-15/16 | 5 | 5-7/32  | 7-3/4 |       | •     |       |       |
| 5-1/8           | IM1649      | 7-3/32  | 5 | 5-7/32  | 7-3/4 |       |       | •     |       |
| 5-1/4           | IM1689      | 7-7/32  | 5 | 5-15/32 | 8     |       |       | •     |       |
| 5-3/8           | IM1729      | 7-3/8   | 5 | 5-15/32 | 8     |       |       | •     |       |
| 5-7/16          | IM1749      | 7-7/16  | 5 | 5-3/8   | 8     |       |       | •     |       |
| 5-1/2           | IM1769      | 7-17/32 | 5 | 5-5/8   | 8-1/4 |       |       | •     |       |
| 5-5/8           | IM1809      | 7-21/32 | 5 | 5-19/32 | 8-1/4 |       |       | •     |       |
| 5-3/4           | IM1849      | 7-13/16 | 5 | 5-19/32 | 8-1/4 |       |       | •     |       |
| 5-7/8           | IM1889      | 7-31/32 | 5 | 5-13/16 | 8-1/2 |       |       | •     |       |
| 6               | IM1929      | 8-3/32  | 5 | 5-3/4   | 8-1/2 |       |       | •     |       |
| 6-1/8           | IM1969      | 8-1/4   | 5 | 5-3/4   | 8-1/2 |       |       | •     |       |
| 6-1/4           | IM20099     | 8-13/32 | 5 | 5-31/32 | 8-3/4 |       |       | •     |       |
| 6-3/8           | IM2049      | 8-17/32 | 5 | 5-15/16 | 8-3/4 |       |       | •     |       |
| 6-1/2           | IM2089      | 8-11/16 | 5 | 5-15/16 | 8-3/4 |       |       | •     |       |
| 6-5/8           | IM2129      | 8-27/32 | 5 | 6-5/32  | 9     |       |       | •     |       |
| 6-3/4           | IM2169      | 8-31/32 | 5 | 6-1/8   | 9     |       |       |       | •     |
| 6-7/8           | IM2209      | 9-1/8   | 5 | 6-1/8   | 9     |       |       |       | •     |
| 7               | IM2249      | 9-9/32  | 5 | 6-5/16  | 9-1/4 |       |       |       | •     |
| 7-1/8           | IM2289      | 9-13/32 | 5 | 6-5/16  | 9-1/4 |       |       |       | •     |
| 7-1/4           | IM2329      | 9-9/16  | 5 | 6-17/32 | 9-1/2 |       |       |       | •     |
| 7-3/8           | IM2369      | 9-23/32 | 5 | 6-1/2   | 9-1/2 |       |       |       | •     |
| 7-1/2           | IM2409      | 9-7/8   | 5 | 6-1/2   | 9-1/2 |       |       |       | •     |
| 7-5/8           | IM2449      | 10      | 5 | 6-23/32 | 9-3/4 |       |       |       | •     |
| 7-3/4           | IM2489      | 10-5/32 | 5 | 6-11/16 | 9-3/4 |       |       |       | •     |
| 7-7/8           | IM2529      | 10-5/16 | 5 | 6-11/16 | 9-3/4 |       |       |       | •     |
| 8               | IM2569      | 10-7/16 | 5 | 6-7/8   | 10    |       |       |       | •     |

2-1/2" DRIVE TOOLS

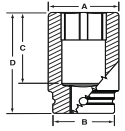


• Read safety precautions on pages W1 to W4

# FLANK DRIVE® IMPACT SOCKETS



IMM1159



Shallow, mm

Set Contains:  
 713MM  
 710MM  
 709MM

| mm  | 6       | A     | B   | C     | D     | 6 | 6 | 6 |
|-----|---------|-------|-----|-------|-------|---|---|---|
| 60  | IMM609  | 97.6  | 127 | 88.1  | 152.4 | • |   |   |
| 65  | IMM659  | 104.0 | 127 | 88.1  | 152.4 | • |   |   |
| 67  | IMM679  | 105.6 | 127 | 88.1  | 152.4 | • |   |   |
| 70  | IMM709  | 109.5 | 127 | 94.5  | 158.8 | • |   |   |
| 71  | IMM719  | 110.3 | 127 | 94.5  | 158.8 | • |   |   |
| 75  | IMM759  | 115.1 | 127 | 94.5  | 158.8 | • |   |   |
| 80  | IMM809  | 121.4 | 127 | 100.8 | 165.1 | • |   |   |
| 85  | IMM859  | 127.0 | 127 | 100.8 | 165.1 | • |   |   |
| 86  | IMM869  | 127.0 | 127 | 100.8 | 165.1 | • |   |   |
| 90  | IMM909  | 132.6 | 127 | 107.2 | 171.5 | • |   |   |
| 95  | IMM959  | 138.9 | 127 | 107.2 | 171.5 | • |   |   |
| 98  | IMM989  | 142.1 | 127 | 113.5 | 177.8 | • |   |   |
| 100 | IMM1009 | 144.5 | 127 | 113.5 | 177.8 | • |   |   |
| 105 | IMM1059 | 150.8 | 127 | 119.9 | 184.2 |   | • |   |
| 110 | IMM1109 | 156.4 | 127 | 119.9 | 184.2 |   | • |   |
| 115 | IMM1159 | 161.9 | 127 | 126.2 | 190.5 |   | • |   |
| 120 | IMM1209 | 168.3 | 127 | 126.2 | 190.5 |   | • |   |
| 125 | IMM1259 | 173.8 | 127 | 132.6 | 196.9 |   | • |   |
| 130 | IMM1309 | 179.4 | 127 | 132.6 | 196.9 |   | • |   |
| 135 | IMM1359 | 185.7 | 127 | 138.9 | 203.2 |   | • |   |
| 140 | IMM1409 | 191.3 | 127 | 142.9 | 209.6 |   | • |   |
| 145 | IMM1459 | 196.9 | 127 | 142.1 | 209.6 |   | • |   |
| 150 | IMM1509 | 203.2 | 127 | 147.6 | 215.9 |   | • |   |
| 155 | IMM1559 | 208.8 | 127 | 146.1 | 215.9 |   |   | • |
| 160 | IMM1609 | 215.1 | 127 | 151.6 | 222.3 |   |   | • |
| 165 | IMM1659 | 215.1 | 127 | 150.8 | 222.3 |   |   | • |
| 170 | IMM1709 | 226.2 | 127 | 156.4 | 228.6 |   |   | • |
| 175 | IMM1759 | 232.6 | 127 | 161.9 | 235.0 |   |   | • |
| 180 | IMM1809 | 238.1 | 127 | 160.3 | 235.0 |   |   | • |
| 185 | IMM1859 | 243.7 | 127 | 165.9 | 241.3 |   |   | • |
| 190 | IMM1909 | 250.0 | 127 | 165.1 | 241.3 |   |   | • |
| 200 | IMM2009 | 261.9 | 127 | 169.9 | 247.7 |   |   | • |



IM182R



IMR3

## Master Ring and Pin Chart for Impact Sockets and Accessories

| Stock No. | Description                   | Use with  |
|-----------|-------------------------------|---|
| IM182R    | Rubber Locking Ring           | All 3/4" Drive Sockets/Accessories  |
| IMR2      | Socket Retainer               | All 3/4" Drive Sockets/Accessories  |
| IM483R    | Rubber Locking Ring           | All Spline Drive Sockets/Accessories Plus 1" Drive Sockets from 1-7/16" (35 mm) |
| IM483P    | Steel Locking Pin             | All Spline Drive Sockets/Accessories Plus 1" Drive Sockets from 1-7/16" (35 mm) |
| IM445R    | Rubber Locking Ring           | All 1-1/2" Drive Sockets/Accessories  |
| IM729P    | Steel Locking Pin             | All 2-1/2" Drive Sockets/Accessories  |
| IMR3      | Socket Retainer               | All 1" Drive Sockets/Accessories, All #5 Spline Drive Sockets/Accessories       |
| IM243P    | Steel Locking Pin             | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm)                               |
| IM243R    | Synthetic Rubber Locking Ring | 1" Drive Sockets/Accessories up to 1-3/8" (35 mm) Plus IM124 Adaptor            |

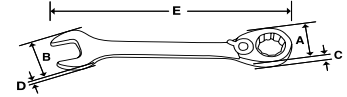
# WRENCHES

THE KEY TO MAKING WRENCHES THAT PERFORM BETTER IS TO MAKE THEM BETTER IN THE FIRST PLACE. THAT'S WHY WE MAKE OURS WITH SPECIAL ALLOY STEEL, PRECISION FORGING AND HEAT TREATMENT FOR ULTIMATE STRENGTH AND DURABILITY. NICKEL-CHROME FINISHING FOR CORROSION PROTECTION AND EASIER CLEANUP. AND LONGER HANDLES FOR ADDED LEVERAGE AND GREATER ACCESS.

## WRENCH BETTER WITH A BETTER WRENCH.

Our entire line of wrenches offers exclusive features, like the Flank Drive® Plus profile on the open end that “bites” into the fastener to minimize slipping and delivers up to 62% more turning power. Our Flank Drive® box-end wrenches have a 7.5° rotation away from the handle, so they can be flipped for better grip in tight areas. And their 15° offset angle provides more knuckle clearance and greater accessibility. Our reversible ratcheting box-end wrenches also provide smooth operation and max power, thanks to their 80-gear teeth and reversible dual pawls.

# FLANK DRIVE® PLUS REVERSIBLE RATCHETING COMBINATION



- Patented, ratcheting mechanism utilizes Snap-on® Dual 80® Technology, combining dual pawls with a thin-walled, box-end design for smooth operation and more torque transfer in less lateral space
- 12-point ratcheting gear is cold formed and features the Flank Drive® wrenching configuration, the proven design for turning fasteners
- Open end features the patented Flank Drive® Plus wrenching configuration that delivers up to 62% more turning power than conventional wrenches

- Up to 80 gear teeth requires minimal movement in tight areas
- Box end is offset 15° for maximum clearance
- **STRONG:** Manufactured from special alloy steel; Precision forged, cold-formed and heat treated; Nickel-chrome plating; optimum corrosion protection, strength and durability
- **POWERFUL:** Continuous arc design; smooth operation distributes stress evenly creating more torque transfer



## Ratcheting Combination/Standard Handle, 15° Offset, mm

| mm | 12       | A    | B    | C    | D   | E   | Set Contains: |           |           |
|----|----------|------|------|------|-----|-----|---------------|-----------|-----------|
|    |          |      |      |      |     |     | SOXRRM704     | SOXRRM707 | SOXRRM710 |
| 6  | SOXRRM6  | 16.3 | 13.8 | 6.7  | 3.7 | 126 | •             |           |           |
| 7  | SOXRRM7  | 16.8 | 15.1 | 6.9  | 3.9 | 137 | •             |           |           |
| 8  | SOXRRM8  | 17.8 | 17.0 | 7.1  | 4.3 | 149 | •             |           |           |
| 9  | SOXRRM9  | 19.6 | 19.2 | 7.9  | 4.7 | 164 | •             |           |           |
| 10 | SOXRRM10 | 19.1 | 21.1 | 7.2  | 5.1 | 179 |               | •         | •         |
| 11 | SOXRRM11 | 21.1 | 23.4 | 7.6  | 5.5 | 194 |               | •         | •         |
| 12 | SOXRRM12 | 22.7 | 25.1 | 8.1  | 5.9 | 207 |               | •         | •         |
| 13 | SOXRRM13 | 24   | 27.2 | 8.2  | 6.3 | 221 |               | •         | •         |
| 14 | SOXRRM14 | 26.3 | 29.2 | 8.2  | 6.7 | 235 |               | •         | •         |
| 15 | SOXRRM15 | 27.8 | 31.2 | 9.1  | 7.1 | 249 |               | •         | •         |
| 16 | SOXRRM16 | 28.4 | 33   | 9.8  | 7.4 | 261 |               |           | •         |
| 17 | SOXRRM17 | 30.5 | 35.1 | 9.9  | 7.8 | 277 |               | •         | •         |
| 18 | SOXRRM18 | 31.8 | 37.1 | 10.4 | 8.2 | 291 |               |           | •         |
| 19 | SOXRRM19 | 32.4 | 39.4 | 10.9 | 8.6 | 305 |               |           | •         |

ASME® B107.100

Sets include storage tray.



## Ratcheting Combination/Standard Handle, 15° Offset, inches

| Inches | 12      | A      | B      | C     | D     | E       | Set Contains: |          |
|--------|---------|--------|--------|-------|-------|---------|---------------|----------|
|        |         |        |        |       |       |         | SOXRR702      | SOXRR707 |
| 1/4    | SOXRR8  | 21/32  | 9/16   | 9/32  | 5/32  | 4-15/16 | •             |          |
| 5/16   | SOXRR10 | 27/32  | 11/16  | 9/32  | 3/16  | 5-29/32 | •             |          |
| 3/8    | SOXRR12 | 3/4    | 27/32  | 9/32  | 7/32  | 7-1/32  |               | •        |
| 7/16   | SOXRR14 | 27/32  | 15/16  | 5/16  | 7/32  | 7-21/32 |               | •        |
| 1/2    | SOXRR16 | 15/16  | 1-1/16 | 11/32 | 1/4   | 8-11/16 |               | •        |
| 9/16   | SOXRR18 | 1-1/32 | 1-5/32 | 11/32 | 1/4   | 9-1/4   |               | •        |
| 5/8    | SOXRR20 | 1-1/8  | 1-5/16 | 3/8   | 9/32  | 10-9/32 |               | •        |
| 11/16  | SOXRR22 | 1-3/16 | 1-3/8  | 13/32 | 5/16  | 10-7/8  |               | •        |
| 3/4    | SOXRR24 | 1-9/32 | 1-9/16 | 7/16  | 11/32 | 12      |               | •        |

ASME® B107.100

Sets include storage tray.

# FLANK DRIVE® PLUS REVERSIBLE RATCHETING COMBINATION

- Patented open end speed-wrenching configuration delivers more speed than conventional wrenches
- Speed open end provides quick, ratchet-like action
- Flank Drive® wrenching system on the box end provides up to 15–20% more turning power with less risk of tool or fastener damage
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Up to 80 gear teeth for minimal movement in tight areas
- Box end is offset 15° for clearance
- Sized for optimum comfort and balance
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

## Reversible Ratcheting Box/Speed Open End, mm

| mm | 12      | A    | B    | C    | D   | E   | Gear Teeth | 12 |
|----|---------|------|------|------|-----|-----|------------|----|
| 10 | SRXRM10 | 21.5 | 19.1 | 8.3  | 5.1 | 179 | 72         | •  |
| 11 | SRXRM11 | 22.0 | 21.0 | 8.6  | 5.6 | 194 | 72         | •  |
| 12 | SRXRM12 | 23.5 | 22.9 | 9.3  | 5.9 | 207 | 80         | •  |
| 13 | SRXRM13 | 25.0 | 24.8 | 10.2 | 6.4 | 221 | 80         | •  |
| 14 | SRXRM14 | 27.0 | 26.7 | 10.2 | 6.6 | 235 | 80         | •  |
| 15 | SRXRM15 | 28.5 | 28.6 | 11.1 | 7.4 | 249 | 80         | •  |
| 16 | SRXRM16 | 30.5 | 30.5 | 11.1 | 7.4 | 261 | 80         | •  |
| 17 | SRXRM17 | 32.0 | 32.4 | 12.0 | 7.9 | 277 | 80         | •  |
| 18 | SRXRM18 | 34.5 | 34.3 | 12.0 | 8.2 | 291 | 80         | •  |
| 19 | SRXRM19 | 36.5 | 36.2 | 12.9 | 8.6 | 305 | 80         | •  |

ASME® B107.100

Set includes storage tray.

SRXRM710  
Set Contains:



SRXRM710

## Reversible Ratcheting Combination/Spline, inches

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982.

The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.

| Size, inches (Spline) | Stock No. | A      | B      | C     | D     | E       |   |
|-----------------------|-----------|--------|--------|-------|-------|---------|---|
| 3/8 (#12)             | SOSRR12   | 3/4    | 27/32  | 9/32  | 7/32  | 7-1/32  | • |
| 7/16 (#14)            | SOSRR14   | 27/32  | 15/16  | 5/16  | 7/32  | 7-21/32 | • |
| 1/2 (#16)             | SOSRR16   | 15/16  | 1-1/16 | 11/32 | 1/4   | 8-11/16 | • |
| 9/16 (#18)            | SOSRR18   | 1-1/32 | 1-5/32 | 11/32 | 1/4   | 9-1/4   | • |
| 5/8 (#20)             | SOSRR20   | 1-1/8  | 1-5/16 | 3/8   | 9/32  | 10-9/32 | • |
| 11/16 (#22)           | SOSRR22   | 1-3/16 | 1-3/8  | 13/32 | 5/16  | 10-7/8  | • |
| 3/4 (#24)             | SOSRR24   | 1-9/32 | 1-9/16 | 7/16  | 11/32 | 12      | • |

Set includes storage tray.

SOSRR707  
Set Contains:



SOSRR707



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## FLANK DRIVE® PLUS NON-REVERSIBLE COMBINATION



### Ratcheting Combination/Standard Handle, 0° Offset, mm

| mm | 12      | A    | B    | C    | D    | E   | Set Contains: |          |          |
|----|---------|------|------|------|------|-----|---------------|----------|----------|
|    |         |      |      |      |      |     | SOXRM703      | SOXRM704 | SOXRM710 |
|    | 12      |      |      |      |      |     | 12            | 12       | 12       |
| 6  | SOXRM6  | 16   | 13.2 | 6.4  | 3.5  | 123 |               | •        |          |
| 7  | SOXRM7  | 16   | 15   | 6.4  | 3.9  | 134 |               | •        |          |
| 8  | SOXRM8  | 16.9 | 17   | 6.4  | 4.3  | 147 |               | •        |          |
| 9  | SOXRM9  | 18.2 | 19.2 | 6.8  | 4.7  | 159 |               | •        |          |
| 10 | SOXRM10 | 19.1 | 21.1 | 7.2  | 5.1  | 171 |               |          | •        |
| 11 | SOXRM11 | 21.1 | 23.4 | 7.6  | 5.5  | 183 |               |          | •        |
| 12 | SOXRM12 | 22.7 | 25.1 | 8.1  | 5.9  | 195 |               |          | •        |
| 13 | SOXRM13 | 24   | 27.2 | 8.2  | 6.3  | 207 |               |          | •        |
| 14 | SOXRM14 | 26.3 | 29.2 | 8.3  | 6.7  | 219 |               |          | •        |
| 15 | SOXRM15 | 27.8 | 31.2 | 8.3  | 7.1  | 231 |               |          | •        |
| 16 | SOXRM16 | 28.4 | 33   | 9.8  | 7.4  | 243 |               |          | •        |
| 17 | SOXRM17 | 30.5 | 35.1 | 9.9  | 7.8  | 255 |               |          | •        |
| 18 | SOXRM18 | 31.8 | 37.1 | 10.4 | 8.2  | 267 |               |          | •        |
| 19 | SOXRM19 | 32.4 | 39.4 | 10.9 | 8.6  | 279 |               |          | •        |
| 21 | SOXRM21 | 39.5 | 43.2 | 13   | 9.4  | 314 | •             |          |          |
| 22 | SOXRM22 | 39.7 | 45.7 | 13   | 9.9  | 329 | •             |          |          |
| 24 | SOXRM24 | 46.1 | 48.8 | 14.1 | 10.5 | 358 | •             |          |          |

ASME® B107.100

Sets include storage tray.



### Ratcheting Combination/Standard Handle, 0° Offset, inches

| in    | 12     | A       | B       | C     | D     | E        | Set Contains: |         |
|-------|--------|---------|---------|-------|-------|----------|---------------|---------|
|       |        |         |         |       |       |          | SOXR704       | SOXR707 |
|       | 12     |         |         |       |       |          | 12            | 12      |
| 1/4   | SOXR8  | 5/8     | 1/2     | 1/4   | 9/64  | 4-27/32  |               |         |
| 5/16  | SOXR10 | 21/32   | 43/64   | 1/4   | 11/64 | 6-1/4    |               |         |
| 3/8   | SOXR12 | 3/4     | 27/32   | 9/32  | 3/16  | 6-3/4    |               | •       |
| 7/16  | SOXR14 | 27/32   | 29/32   | 5/16  | 7/32  | 7-7/32   |               | •       |
| 1/2   | SOXR16 | 15/16   | 1-1/16  | 11/32 | 1/4   | 8-5/32   |               | •       |
| 9/16  | SOXR18 | 1-1/32  | 1-5/32  | 11/32 | 1/4   | 8-5/8    |               | •       |
| 5/8   | SOXR20 | 1-1/8   | 1-5/16  | 3/8   | 9/32  | 9-9/16   |               | •       |
| 11/16 | SOXR22 | 1-7/32  | 1-3/8   | 13/32 | 5/16  | 10-1/32  |               | •       |
| 3/4   | SOXR24 | 1-9/32  | 1-9/16  | 7/16  | 11/32 | 10-31/32 |               | •       |
| 13/16 | SOXR26 | 1-9/16  | 1-3/4   | 17/32 | 3/8   | 12-3/8   | •             |         |
| 7/8   | SOXR28 | 1-9/16  | 1-13/16 | 17/32 | 13/32 | 12-15/16 | •             |         |
| 15/16 | SOXR30 | 1-13/16 | 1-15/16 | 9/16  | 7/16  | 14-1/8   | •             |         |
| 1     | SOXR32 | 1-13/16 | 1-15/16 | 9/16  | 7/16  | 14-11/16 | •             |         |

ASME® B107.100


Sets include storage tray.

# FLANK DRIVE® PLUS NON-REVERSIBLE COMBINATION

WRENCHES

## Non-Reversible Ratcheting Combination/Spline, inches


Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool. Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.

|  | Stock No. | A       | B       | C     | D     | E        |
|---|-----------|---------|---------|-------|-------|----------|
| 7/32 (#7)   | SOSR7     | 5/8     | 17/32   | 1/4   | 5/32  | 4-27/32  |
| 1/4 (#8)  | SOSR8     | 5/8     | 17/32   | 1/4   | 5/32  | 4-27/32  |
| 9/32 (#9)   | SOSR9     | 21/32   | 11/16   | 1/4   | 3/16  | 5-25/32  |
| 5/16 (#10)  | SOSR10    | 21/32   | 11/16   | 1/4   | 3/16  | 5-25/32  |
| 11/32 (#11)   | SOSR11    | 23/32   | 3/4     | 9/32  | 3/16  | 6-1/4    |
| 3/8 (#12)   | SOSR12    | 3/4     | 27/32   | 9/32  | 7/32  | 6-3/4    |
| 7/16 (#14)  | SOSR14    | 27/32   | 15/16   | 5/16  | 7/32  | 7-7/32   |
| 1/2 (#16)   | SOSR16    | 15/16   | 1-1/16  | 11/32 | 1/4   | 8-5/32   |
| 9/16 (#18)  | SOSR18    | 1-1/32  | 1-5/32  | 11/32 | 1/4   | 8-5/8    |
| 5/8 (#20)   | SOSR20    | 1-1/8   | 1-5/16  | 3/8   | 9/32  | 9-9/16   |
| 11/16 (#22)   | SOSR22    | 1-3/16  | 1-3/8   | 13/32 | 5/16  | 10-1/32  |
| 3/4 (#24)   | SOSR24    | 1-9/32  | 1-9/16  | 7/16  | 11/32 | 10-31/32 |
| 13/16 (#26)   | SOSR26    | 1-9/16  | 1-23/32 | 1/2   | 3/8   | 12-11/32 |
| 7/8 (#28)   | SOSR28    | 1-9/16  | 1-13/16 | 1/2   | 13/32 | 12-15/16 |
| 15/16 (#30)   | SOSR30    | 1-13/16 | 1-15/16 | 9/16  | 13/32 | 14-1/8   |
| 1 (#32)   | SOSR32    | 1-13/16 | 2-1/32  | 9/16  | 7/16  | 14-23/32 |



# FLANK DRIVE® RATCHETING COMBINATION

## Ratcheting Combination/Standard Handle, 0° Offset, inches

|  | 12    | A       | B       | C     | D      | E        | Set Contains: |        |
|---|-------|---------|---------|-------|--------|----------|---------------|--------|
|   |       |         |         |       |        |          | OXR704        | OXR707 |
| 1/4   | OXR8  | 5/8     | 1/2     | 1/4   | 9/64   | 4-27/32  |               |        |
| 5/16  | OXR10 | 21/32   | 43/64   | 1/4   | 11/64  | 6-1/4    |               |        |
| 3/8   | OXR12 | 3/4     | 27/32   | 9/32  | 3/16   | 6-3/4    |               | •      |
| 7/16  | OXR14 | 27/32   | 29/32   | 5/16  | 7/32   | 7-7/32   |               | •      |
| 1/2   | OXR16 | 15/16   | 1-1/16  | 11/32 | 1/4    | 8-5/32   |               | •      |
| 9/16  | OXR18 | 1-1/32  | 1-5/32  | 11/32 | 1/4    | 8-5/8    |               | •      |
| 5/8   | OXR20 | 1-1/8   | 1-5/16  | 3/8   | 9/32   | 9-9/16   |               | •      |
| 11/16   | OXR22 | 1-7/32  | 1-3/8   | 13/32 | 5/16   | 10-1/32  |               | •      |
| 3/4   | OXR24 | 1-9/32  | 1-9/16  | 7/16  | 11/32  | 10-31/32 |               | •      |
| 13/16   | OXR26 | 1-9/16  | 1-3/4   | 17/32 | 3/8    | 12-3/8   | •             |        |
| 7/8   | OXR28 | 1-9/16  | 1-13/16 | 17/32 | 13/32  | 12-15/16 | •             |        |
| 15/16   | OXR30 | 1-13/16 | 1-15/16 | 9/16  | 7/16   | 14-1/8   | •             |        |
| 1   | OXR32 | 1-13/16 | 9/16    | 7/16  | 2-1/16 | 14-11/16 | •             |        |

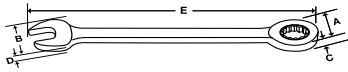
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Sets include storage tray.



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® RATCHETING COMBINATION



SOXRM703



OXRM710

## Ratcheting Combination/Standard Handle, 0° Offset, mm

| mm | 12     | A    | B     | C    | D    | E   | Set Contains: |         |
|----|--------|------|-------|------|------|-----|---------------|---------|
|    |        |      |       |      |      |     | OXRM703       | OXRM710 |
| 6  | OXRM6  | 16   | 13.2  | 6.4  | 3.5  | 123 | 12            | 12      |
| 7  | OXRM7  | 16   | 15    | 6.4  | 3.9  | 134 |               |         |
| 8  | OXRM8  | 16.9 | 17    | 6.4  | 4.3  | 147 |               |         |
| 9  | OXRM9  | 18.2 | 19.2  | 6.8  | 4.7  | 159 |               |         |
| 10 | OXRM10 | 19.1 | 21.1  | 7.2  | 5.1  | 171 |               | •       |
| 11 | OXRM11 | 21.1 | 23.4  | 7.6  | 5.5  | 183 |               | •       |
| 12 | OXRM12 | 22.7 | 25.1  | 8.1  | 5.9  | 195 |               | •       |
| 13 | OXRM13 | 24   | 27.2  | 8.2  | 6.3  | 207 |               | •       |
| 14 | OXRM14 | 26.3 | 29.2  | 8.3  | 6.7  | 219 |               | •       |
| 15 | OXRM15 | 27.8 | 31.2  | 8.3  | 7.1  | 231 |               | •       |
| 16 | OXRM16 | 28.4 | 33    | 9.8  | 7.4  | 243 |               | •       |
| 17 | OXRM17 | 30.5 | 35.1  | 9.9  | 7.8  | 255 |               | •       |
| 18 | OXRM18 | 31.8 | 37.1  | 10.4 | 8.2  | 267 |               | •       |
| 19 | OXRM19 | 32.4 | 39.4  | 10.9 | 8.6  | 279 |               | •       |
| 21 | OXRM21 | 39.5 | 43.2  | 13   | 9.4  | 314 | •             |         |
| 22 | OXRM22 | 39.7 | 45.7  | 13   | 9.9  | 329 | •             |         |
| 24 | OXRM24 | 46.1 | 448.8 | 14.1 | 10.5 | 358 | •             |         |

ASME® B107.100

Sets include storage tray.



OXKRM705



OXKRM707

## Ratcheting Combination/Short Handle, 0° Offset, mm

| mm | 12      | A    | B    | C    | D   | E   | Set Contains: |          |
|----|---------|------|------|------|-----|-----|---------------|----------|
|    |         |      |      |      |     |     | OXKRM705      | OXKRM707 |
| 6  | OXKRM6  | 16   | 13.2 | 6.4  | 3.5 | 81  | 12            | 12       |
| 7  | OXKRM7  | 16   | 14.9 | 6.4  | 3.9 | 85  |               |          |
| 8  | OXKRM8  | 16.9 | 17   | 6.4  | 4.3 | 89  |               | •        |
| 9  | OXKRM9  | 18.2 | 19.1 | 6.8  | 4.7 | 93  |               | •        |
| 10 | OXKRM10 | 19.1 | 21.1 | 7.2  | 5.1 | 97  |               | •        |
| 11 | OXKRM11 | 21.1 | 23.4 | 7.6  | 5.5 | 101 |               | •        |
| 12 | OXKRM12 | 22.7 | 25.1 | 8.1  | 5.9 | 105 |               | •        |
| 13 | OXKRM13 | 24.0 | 27.2 | 8.2  | 6.3 | 110 |               | •        |
| 14 | OXKRM14 | 26.3 | 29.2 | 8.3  | 6.7 | 114 |               | •        |
| 15 | OXKRM15 | 27.8 | 31.2 | 8.3  | 7.1 | 118 | •             |          |
| 16 | OXKRM16 | 28.4 | 33.0 | 9.8  | 7.4 | 122 | •             |          |
| 17 | OXKRM17 | 30.5 | 35.1 | 9.9  | 7.8 | 127 | •             |          |
| 18 | OXKRM18 | 31.8 | 37.1 | 10.4 | 8.2 | 131 | •             |          |
| 19 | OXKRM19 | 32.4 | 39.4 | 10.9 | 8.6 | 135 | •             |          |

ASME® B107.100

Sets include storage tray.



OXKR707

## Ratcheting Combination/Short Handle, 0° Offset, inches

| Inches | 12     | A      | B      | C     | D     | E       | Set Contains: |    |
|--------|--------|--------|--------|-------|-------|---------|---------------|----|
|        |        |        |        |       |       |         | OXKR707       | 12 |
| 1/4    | OXKR8  | 5/8    | 1/2    | 1/4   | 9/64  | 3-3/16  |               |    |
| 5/16   | OXKR10 | 21/32  | 43/64  | 1/4   | 11/64 | 3-17/32 |               |    |
| 3/8    | OXKR12 | 3/4    | 27/32  | 9/32  | 3/16  | 3-27/32 |               | •  |
| 7/16   | OXKR14 | 27/32  | 29/32  | 5/16  | 7/32  | 3-31/32 |               | •  |
| 1/2    | OXKR16 | 15/16  | 1-1/16 | 11/32 | 1/4   | 4-5/16  |               | •  |
| 9/16   | OXKR18 | 1-1/32 | 1-5/32 | 11/32 | 1/4   | 4-15/32 |               | •  |
| 5/8    | OXKR20 | 1-1/8  | 1-5/16 | 3/8   | 9/32  | 4-13/16 |               | •  |
| 11/16  | OXKR22 | 1-7/32 | 1-3/8  | 13/32 | 5/16  | 4-31/32 |               | •  |
| 3/4    | OXKR24 | 1-9/32 | 1-9/16 | 7/16  | 11/32 | 5-11/32 |               | •  |

ASME® B107.100

Set includes storage tray.

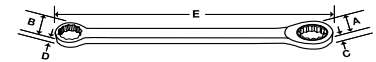


# FLANK DRIVE® HIGH-PERFORMANCE RATCHETING BOX

## Ratcheting Box, 0° Offset, mm

| mm | 12      | A    | B    | C    | D    | E   | Set Contains: |    |
|----|---------|------|------|------|------|-----|---------------|----|
|    |         |      |      |      |      |     | 12            | 12 |
| 8  | XDLRM8  | 16.9 | 11.6 | 6.4  | 6.2  | 231 |               |    |
| 9  | XDLRM9  | 18.2 | 13   | 6.8  | 6.2  | 244 |               |    |
| 10 | XDLRM10 | 19.1 | 14.4 | 7.2  | 7.6  | 257 |               |    |
| 11 | XDLRM11 | 21.1 | 15.6 | 7.6  | 8.5  | 270 | •             |    |
| 12 | XDLRM12 | 22.7 | 17.1 | 8.1  | 8.9  | 282 | •             |    |
| 13 | XDLRM13 | 24   | 18.7 | 8.2  | 8.9  | 295 |               | •  |
| 14 | XDLRM14 | 26.3 | 20.1 | 8.3  | 10.2 | 336 | •             |    |
| 15 | XDLRM15 | 27.8 | 21.5 | 8.3  | 10.9 | 349 |               | •  |
| 16 | XDLRM16 | 28.4 | 22.6 | 9.8  | 11.2 | 362 | •             |    |
| 17 | XDLRM17 | 30.5 | 23.7 | 9.9  | 11.3 | 375 |               | •  |
| 18 | XDLRM18 | 31.8 | 24.9 | 10.4 | 12.1 | 388 | •             |    |
| 19 | XDLRM19 | 32.4 | 26.3 | 10.9 | 12.1 | 401 |               | •  |

Sets include storage bag.



XDLRM705K1

## Ratcheting Box, 0° Offset, inches

| In    | 12     | A      | B      | C     | D     | E        | Set Contains: |  |
|-------|--------|--------|--------|-------|-------|----------|---------------|--|
|       |        |        |        |       |       |          | 12            |  |
| 5/16  | XDLR10 | 21/32  | 29/64  | 1/4   | 1/4   | 9-1/16   |               |  |
| 3/8   | XDLR12 | 3/4    | 9/16   | 9/32  | 19/64 | 10-3/32  | •             |  |
| 7/16  | XDLR14 | 27/32  | 39/64  | 5/16  | 11/32 | 10-39/64 | •             |  |
| 1/2   | XDLR16 | 15/16  | 23/32  | 11/32 | 23/64 | 11-5/8   | •             |  |
| 9/16  | XDLR18 | 1-1/32 | 13/16  | 11/32 | 13/32 | 13-1/4   | •             |  |
| 5/8   | XDLR20 | 1-1/8  | 57/64  | 3/8   | 7/16  | 14-1/4   |               |  |
| 11/16 | XDLR22 | 1-7/32 | 15/16  | 13/32 | 7/16  | 14-49/64 |               |  |
| 3/4   | XDLR24 | 1-9/32 | 1-3/64 | 7/16  | 31/64 | 15-51/64 | •             |  |

Set includes storage bag.

XDLR705



XDLR705

## Flank Drive® Double Flex, mm

- 180° flexible ratcheting head combined with narrow width and low-height profile of wrench head allows for access into the tightest of spaces
- Yoke/tang combination utilizes well-established Snap-on® flex ratchet design for ultimate strength and durability
- Unique, patented ratcheting gear design is optimized to maximize ratcheting arc, strength, durability and access for the most balanced wrench available
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean

- 80-tooth ratcheting gear utilizes key elements of Snap-on® Dual 80® Technology, minimizing swing arc when working in restricted spaces
- Flank Drive® box-end system grips fastener flats to deliver up to 15–20% more turning power with less risk of fastener damage

| mm     | Stock No. | A    | B    | C    | D    | E   | Set Contains: |  |
|--------|-----------|------|------|------|------|-----|---------------|--|
|        |           |      |      |      |      |     | 12            |  |
| 8, 10  | XFRM810   | 16.9 | 19.1 | 9.8  | 10.4 | 330 | •             |  |
| 12, 14 | XFRM1214  | 22.7 | 26.3 | 8.0  | 8.3  | 411 | •             |  |
| 13, 15 | XFRM1315  | 24.0 | 26.3 | 8.2  | 8.6  | 413 | •             |  |
| 16, 18 | XFRM1618  | 28.4 | 31.8 | 10.0 | 10.4 | 432 | •             |  |
| 17, 19 | XFRM1719  | 30.5 | 32.4 | 10.1 | 10.9 | 470 | •             |  |

XFRM705



XFRM1214



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

# REVERSIBLE RATCHETING COMBINATION (Blue-Point®)



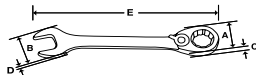
**BOERM712**

## Ratcheting Combination/Standard Handle, 15° Offset, mm (Blue-Point®)

| mm | 12      | A    | B    | C    | D    | E     | Set Contains: |    |
|----|---------|------|------|------|------|-------|---------------|----|
|    |         |      |      |      |      |       | 12            | 12 |
| 6  | BOERM6  | 16.3 | 16.3 | 6.6  | 3.6  | 114.3 |               |    |
| 6  | BOERM7  | 16.5 | 16.4 | 6.6  | 3.9  | 125   |               |    |
| 8  | BOERM8  | 17.8 | 17.7 | 6.5  | 4.0  | 135   | •             |    |
| 9  | BOERM9  | 19.5 | 20.0 | 7.4  | 4.0  | 150   | •             |    |
| 10 | BOERM10 | 21.5 | 21.9 | 8.0  | 5.0  | 160   | •             |    |
| 11 | BOERM11 | 22.0 | 23.9 | 8.5  | 5.5  | 170   | •             |    |
| 12 | BOERM12 | 23.5 | 25.0 | 9.0  | 5.5  | 175   | •             |    |
| 13 | BOERM13 | 25.0 | 25.9 | 10.0 | 6.3  | 180   | •             |    |
| 14 | BOERM14 | 27.0 | 29.9 | 10.0 | 6.5  | 190   | •             |    |
| 15 | BOERM15 | 28.5 | 31.1 | 11.0 | 7.0  | 200   | •             |    |
| 16 | BOERM16 | 30.5 | 33.6 | 11.0 | 7.0  | 210   | •             |    |
| 17 | BOERM17 | 32.0 | 36.5 | 12.0 | 7.0  | 230   | •             |    |
| 18 | BOERM18 | 34.5 | 38.5 | 12.0 | 8.0  | 240   | •             |    |
| 19 | BOERM19 | 36.5 | 38.7 | 12.9 | 8.7  | 250   | •             |    |
| 21 | BOERM21 | 39.4 | 43.2 | 13.7 | 9.4  | 266.7 |               | •  |
| 22 | BOERM22 | 41.7 | 45.7 | 14.5 | 9.4  | 285.8 |               | •  |
| 24 | BOERM24 | 46.5 | 49.5 | 15.5 | 11.2 | 304.8 |               | •  |
| 25 | BOERM25 | 47.2 | 52.8 | 15.5 | 11.2 | 327.2 |               | •  |

ASME® B107.100

Sets include storage tray.



## Ratcheting Combination/Standard Handle, 15° Offset, inches (Blue-Point®)

| Inches | 12     | A       | B       | C     | D     | E       | Set Contains: |    |
|--------|--------|---------|---------|-------|-------|---------|---------------|----|
|        |        |         |         |       |       |         | 12            | 12 |
| 7/32   | BOER7  | 5/8     | 21/32   | 1/4   | 5/32  | 4-1/2   |               |    |
| 1/4    | BOER8  | 21/32   | 21/32   | 1/4   | 5/32  | 4-1/2   |               |    |
| 5/16   | BOER10 | 11/16   | 11/16   | 1/4   | 5/32  | 5-5/16  | •             |    |
| 11/32  | BOER11 | 25/32   | 25/32   | 9/32  | 5/32  | 5-15/16 |               |    |
| 3/8    | BOER12 | 27/32   | 7/8     | 5/16  | 3/16  | 6-5/16  | •             |    |
| 7/16   | BOER14 | 7/8     | 15/16   | 11/32 | 7/32  | 6-11/16 | •             |    |
| 1/2    | BOER16 | 31/32   | 1-1/32  | 13/32 | 1/4   | 7-1/16  | •             |    |
| 9/16   | BOER18 | 1-1/16  | 1-3/16  | 13/32 | 1/4   | 7-1/2   | •             |    |
| 5/8    | BOER20 | 1-3/16  | 1-5/16  | 7/16  | 9/32  | 8-1/4   | •             |    |
| 11/16  | BOER22 | 1-1/4   | 1-7/16  | 15/32 | 9/32  | 9-1/16  | •             |    |
| 3/4    | BOER24 | 1-7/16  | 1-17/32 | 1/2   | 11/32 | 9-13/16 | •             |    |
| 13/16  | BOER26 | 1-9/16  | 1-23/32 | 17/32 | 3/8   | 10-1/2  |               | •  |
| 7/8    | BOER28 | 1-21/32 | 1-27/32 | 9/16  | 3/8   | 11-1/4  |               | •  |
| 15/16  | BOER30 | 1-27/32 | 1-31/32 | 5/8   | 7/16  | 12      |               | •  |
| 1      | BOER32 | 1-7/8   | 2-3/32  | 5/8   | 7/16  | 12-7/8  |               | •  |

ASME® B107.100

Set includes storage tray.



**BOER708**

## Ratcheting Combination/Short Handle, 15° Offset, mm (Blue-Point®)

| mm | 12       | A    | B    | C    | D   | E   | Set Contains: |    |
|----|----------|------|------|------|-----|-----|---------------|----|
|    |          |      |      |      |     |     | 12            | 12 |
| 8  | BOERMS8  | 17.8 | 17.7 | 6.5  | 4.0 | 90  | •             |    |
| 9  | BOERMS9  | 19.5 | 20.0 | 7.4  | 4.0 | 95  | •             |    |
| 10 | BOERMS10 | 21.5 | 21.9 | 8.0  | 5.0 | 100 | •             |    |
| 11 | BOERMS11 | 22.0 | 23.9 | 8.5  | 5.5 | 105 | •             |    |
| 12 | BOERMS12 | 23.5 | 25.0 | 9.0  | 5.5 | 110 | •             |    |
| 13 | BOERMS13 | 25.0 | 25.9 | 10.0 | 6.3 | 115 | •             |    |
| 14 | BOERMS14 | 27.0 | 29.9 | 10.0 | 6.5 | 120 | •             |    |
| 15 | BOERMS15 | 28.5 | 31.1 | 11.0 | 7.0 | 125 | •             |    |
| 16 | BOERMS16 | 30.5 | 33.6 | 11.0 | 7.0 | 128 | •             |    |
| 17 | BOERMS17 | 32.0 | 36.5 | 12.0 | 7.0 | 132 | •             |    |
| 18 | BOERMS18 | 34.5 | 38.5 | 12.0 | 8.0 | 138 | •             |    |
| 19 | BOERMS19 | 36.5 | 38.7 | 12.9 | 8.7 | 142 | •             |    |

ASME® B107.100

Set includes storage tray.




**BOERMS712**

# REVERSIBLE RATCHETING COMBINATION (Blue-Point®)

## Ratcheting Combination/Short Handle, 15° Offset, inches (Blue-Point®)

Set Contains:

|  | 12             | A      | B       | C     | D     | E       | 12 |
|---|----------------|--------|---------|-------|-------|---------|----|
| 5/16  | <b>BOERS10</b> | 11/16  | 11/16   | 1/4   | 5/32  | 3-9/16  | •  |
| 3/8   | <b>BOERS12</b> | 27/32  | 7/8     | 5/16  | 3/16  | 3-15/16 | •  |
| 7/16  | <b>BOERS14</b> | 7/8    | 15/16   | 11/32 | 7/32  | 4-1/8   | •  |
| 1/2   | <b>BOERS16</b> | 31/32  | 1-1/32  | 13/32 | 1/4   | 4-1/2   | •  |
| 9/16  | <b>BOERS18</b> | 1-1/16 | 1-3/16  | 13/32 | 1/4   | 4-3/4   | •  |
| 5/8   | <b>BOERS20</b> | 1-3/16 | 1-5/16  | 7/16  | 9/32  | 5-1/16  | •  |
| 11/16   | <b>BOERS22</b> | 1-1/4  | 1-7/16  | 15/32 | 9/32  | 5-3/16  | •  |
| 3/4   | <b>BOERS24</b> | 1-7/16 | 1-17/32 | 1/2   | 11/32 | 5-9/16  | •  |

ASME® B107.100

Set includes storage tray.




**BOERS708**

## Flex Head Ratcheting Combination/Standard Handle, 15° Offset, mm (Blue-Point®)

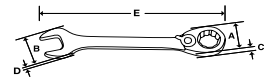
- Flex head pivots 90° in either direction to reach hard-to-get fasteners
- Reversible dual pawl ratcheting box end yields smooth operation and maximum strength
- 4.5° (5° or smaller wrenches) tooth engagement; less movement to engage the next tooth
- Tough, durable nickel-chrome finish

Set Contains:

|  | 12               | A    | B    | C    | D   | E   | 12 |
|---|------------------|------|------|------|-----|-----|----|
| 8   | <b>BOERMF8A</b>  | 17.8 | 17.7 | 6.5  | 4.0 | 142 | •  |
| 9   | <b>BOERMF9A</b>  | 19.5 | 20.0 | 7.4  | 4.0 | 152 | •  |
| 10  | <b>BOERMF10A</b> | 21.5 | 21.9 | 8.0  | 5.0 | 162 | •  |
| 11  | <b>BOERMF11A</b> | 22.0 | 23.9 | 8.5  | 5.5 | 172 | •  |
| 12  | <b>BOERMF12A</b> | 23.5 | 25.0 | 9.0  | 5.5 | 180 | •  |
| 13  | <b>BOERMF13A</b> | 25.0 | 25.9 | 10.0 | 6.3 | 188 | •  |
| 14  | <b>BOERMF14A</b> | 27.0 | 29.9 | 10.0 | 6.5 | 196 | •  |
| 15  | <b>BOERMF15A</b> | 28.5 | 31.1 | 11.0 | 7.0 | 204 | •  |
| 16  | <b>BOERMF16A</b> | 30.5 | 33.6 | 11.0 | 7.0 | 214 | •  |
| 17  | <b>BOERMF17A</b> | 32.0 | 36.5 | 12.0 | 7.0 | 228 | •  |
| 18  | <b>BOERMF18A</b> | 34.5 | 38.5 | 12.0 | 8.0 | 242 | •  |
| 19  | <b>BOERMF19A</b> | 36.5 | 38.7 | 12.9 | 8.7 | 256 | •  |

ASME® B107.100


Set includes storage tray.



**BOERMF712A**

## Flex Head Ratcheting Combination/Standard Handle, 15° Offset, inches (Blue-Point®)

Set Contains:

|  | 12              | A      | B       | C     | D     | E       | 12 |
|---|-----------------|--------|---------|-------|-------|---------|----|
| 5/16  | <b>BOERF10A</b> | 11/16  | 11/16   | 1/4   | 5/32  | 5-19/32 | •  |
| 3/8   | <b>BOERF12A</b> | 27/32  | 7/8     | 5/16  | 3/16  | 6-3/8   | •  |
| 7/16  | <b>BOERF14A</b> | 7/8    | 15/16   | 11/32 | 7/32  | 6-3/4   | •  |
| 1/2   | <b>BOERF16A</b> | 31/32  | 1-1/32  | 13/32 | 1/4   | 7-13/32 | •  |
| 9/16  | <b>BOERF18A</b> | 1-1/16 | 1-3/16  | 13/32 | 1/4   | 7-23/32 | •  |
| 5/8   | <b>BOERF20A</b> | 1-3/16 | 1-5/16  | 7/16  | 9/32  | 8-7/16  | •  |
| 11/16   | <b>BOERF22A</b> | 1-1/4  | 1-7/16  | 15/32 | 9/32  | 8-31/32 | •  |
| 3/4   | <b>BOERF24A</b> | 1-7/16 | 1-17/32 | 1/2   | 11/32 | 10-1/16 | •  |

ASME® B107.100

Set includes storage tray.



**BOERF708A**



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## REVERSIBLE RATCHETING COMBINATION (Blue-Point®)



BOERMSF712

### Flex Head Ratcheting Combination/Midget Handle, 15° Offset, mm (Blue-Point®)

Set Contains:

BOERMSF712

| mm | 12        | A    | B    | C    | D   | E   | 12 |
|----|-----------|------|------|------|-----|-----|----|
| 8  | BOERMSF8  | 17.8 | 17.7 | 6.5  | 4.0 | 94  | •  |
| 9  | BOERMSF9  | 19.5 | 20.0 | 7.4  | 4.0 | 98  | •  |
| 10 | BOERMSF10 | 21.5 | 21.9 | 8    | 5   | 103 | •  |
| 11 | BOERMSF11 | 22   | 23.9 | 8.5  | 5.5 | 108 | •  |
| 12 | BOERMSF12 | 23.5 | 25   | 9    | 5.5 | 111 | •  |
| 13 | BOERMSF13 | 25   | 25.9 | 10   | 6.3 | 115 | •  |
| 14 | BOERMSF14 | 27   | 29.9 | 10   | 6.5 | 120 | •  |
| 15 | BOERMSF15 | 28.5 | 31.1 | 11   | 7   | 124 | •  |
| 16 | BOERMSF16 | 30.5 | 33.6 | 11   | 7   | 128 | •  |
| 17 | BOERMSF17 | 32   | 36.5 | 12   | 7   | 133 | •  |
| 18 | BOERMSF18 | 34.5 | 38.5 | 12   | 8   | 140 | •  |
| 19 | BOERMSF19 | 36.5 | 38.7 | 12.9 | 8.7 | 147 | •  |

ASME® B107.100

Set includes storage bag.



BOERSF708

### Flex Head Ratcheting Combination/Midget Handle, 15° Offset, inches (Blue-Point®)

Set Contains:

BOERSF708

|       | 12       | A      | B       | C     | D     | E       | 12 |
|-------|----------|--------|---------|-------|-------|---------|----|
| 5/16  | BOERSF10 | 11/16  | 11/16   | 1/4   | 5/32  | 3-11/16 | •  |
| 3/8   | BOERSF12 | 27/32  | 7/8     | 5/16  | 3/16  | 4-1/16  | •  |
| 7/16  | BOERSF14 | 7/8    | 15/16   | 11/32 | 7/32  | 4-1/4   | •  |
| 1/2   | BOERSF16 | 31/32  | 1-1/32  | 13/32 | 1/4   | 4-17/32 | •  |
| 9/16  | BOERSF18 | 1-1/16 | 1-3/16  | 13/32 | 1/4   | 4-23/32 | •  |
| 5/8   | BOERSF20 | 1-3/16 | 1-5/16  | 7/16  | 9/32  | 5-1/32  | •  |
| 11/16 | BOERSF22 | 1-1/4  | 1-7/16  | 15/32 | 9/32  | 5-1/4   | •  |
| 3/4   | BOERSF24 | 1-7/16 | 1-17/32 | 1/2   | 11/32 | 5-25/32 | •  |

ASME® B107.100

Set includes storage bag.

## RATCHETING WRENCH ADAPTORS



RWA2

### Ratcheting Wrench Adaptors

- Converts a ratcheting wrench into a ratchet
- Used with reversible ratcheting box wrenches, such as the SOXRR, SOXRRM, BOERM, BOERMF and BOERMS Series
- Can be used with the combination ratcheting box wrenches such as the OXR, OXRM, OXIR, and OXIRM series
- Reverse lever on wrench is used to secure or remove adaptor from the wrench
- Push button on adaptor is used to release the socket

| Stock No. | Configuration | Use with Ratcheting Wrench Size |
|-----------|---------------|---------------------------------|
| RWA1      | 1/4" Drive    | 13 mm                           |
| RWA2      | 3/8" Drive    | 16 mm                           |
| RWA3      | 1/2" Drive    | 19 mm                           |
| RWA4      | 1/4" Hex      | 13 mm                           |
| RWA1FR    | 1/4" Drive    | 1/2"                            |
| RWA2FR    | 3/8" Drive    | 5/8"                            |
| RWA3FR    | 1/2" Drive    | 3/4"                            |
| RWA4FR    | 1/4" Hex      | 1/2"                            |

## RATCHETING BOX

### Standard Handle Spline, inches

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



RES2630C

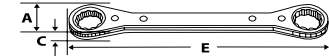
|         |             | Stock No. | A               | C   | E     | Number of Gear Teeth |
|---------|-------------|-----------|-----------------|-----|-------|----------------------|
| #8-#10  | 1/4-5/16    | RES810C   | 19/32-43/64     | 3/8 | 4-1/2 | 14-15                |
| #12-#14 | 3/8-7/16    | RES1214C  | 1-1/64-1-5/32   | 1/2 | 6-7/8 | 17-18                |
| #18-#20 | 9/16-5/8    | RES1820C  | 1-19/64-1-7/16  | 1/2 | 8-1/8 | 19-21                |
| #26-#30 | 13/16-15/16 | RES2630C  | 1-13/32-1-37/64 | 1/2 | 9-1/4 | 21-24                |

# RATCHETING BOX

# WRENCHES

## Standard Handle, 0° Offset, mm

| mm    | 6         | 12       | A         | C    | E     |
|-------|-----------|----------|-----------|------|-------|
| 7-8   | RBM78SC   | RBM78C   | 15.1-17.1 | 9.5  | 114.3 |
| 8-10  | —         | RBM810C  | 20.2-22.6 | 9.5  | 139.7 |
| 9-10  | —         | RBM910C  | 20.2-22.6 | 9.5  | 139.7 |
| 10-11 | RBM1011SC | RBM1011C | 25.8-29.4 | 12.7 | 174.6 |
| 10-12 | —         | RBM1012C | 25.8-29.4 | 12.7 | 174.6 |
| 12-13 | RBM1213SC | RBM1213C | 25.8-29.4 | 12.7 | 174.6 |
| 12-14 | —         | RBM1214C | 25.8-29.4 | 12.7 | 174.6 |
| 14-15 | —         | RBM1415C | 32.9-36.5 | 12.7 | 206.4 |
| 16-18 | —         | RBM1618C | 32.9-36.5 | 12.7 | 206.4 |
| 17-19 | —         | RBM1719C | 32.9-36.5 | 12.7 | 206.4 |



RBM1213C

## Standard Handle, 0° Offset, inches

| Set Contains: | 6        | 12      | A               | C     | E        | 12 |
|---------------|----------|---------|-----------------|-------|----------|----|
| RB604C        | R810SC   | R810C   | 19/32-43/64     | 3/8   | 4-1/2    |    |
|               | —        | R1011C  | 5/8-3/4         | 11/32 | 5-3/8    |    |
|               | —        | R1012C  | 51/64-57/64     | 3/8   | 5-1/2    |    |
|               | R1214SC  | R1214C  | 51/64-57/64     | 3/8   | 5-1/2    | •  |
|               | R1618SC  | R1618C  | 1-1/64-1-5/32   | 1/2   | 6-7/8    | •  |
|               | —        | R2022C  | 1-19/64-1-7/16  | 1/2   | 8-1/8    | •  |
|               | —        | R2024C  | 1-19/64-1-7/16  | 1/2   | 8-1/8    |    |
|               | —        | R2426C  | 1-13/32-1-37/64 | 1/2   | 9-1/4    |    |
|               | —        | R2428C  | 1-13/32-1-37/64 | 1/2   | 9-1/4    | •  |
|               | —        | R2630C  | 1-13/32-1-37/64 | 1/2   | 9-1/4    |    |
|               | —        | R2830C  | 1-29/32-2-17/64 | 9/16  | 15       |    |
|               | —        | R3032C  | 1-29/32-2-17/64 | 9/16  | 15       |    |
|               | —        | R3436A‡ | 2-2             | 9/16  | 12-3/4   |    |
|               | R3640SA‡ | —       | 2-3/32-2-3/32   | 9/16  | 12-13/16 |    |
|               | —        | R3840A‡ | 2-2             | 9/16  | 12-3/4   |    |



RB604C

Set includes storage tray.

## T-Handle, mm

| Set Contains: | 12     | A    | B    | C     | D    | 12 | 12 |
|---------------|--------|------|------|-------|------|----|----|
| RTBM605       | RTBM8  | 17.5 | 71.4 | 307.2 | 9.5  | •  |    |
|               | RTBM10 | 23.0 | 76.2 | 307.2 | 9.5  | •  |    |
|               | RTBM12 | 29.4 | 86.5 | 308.8 | 12.7 | •  |    |
|               | RTBM13 | 29.4 | 86.5 | 308.8 | 12.7 | •  |    |
|               | RTBM14 | 29.4 | 86.5 | 308.8 | 12.7 | •  |    |
|               | RTBM15 | 36.8 | 98.6 | 308.8 | 12.7 |    | •  |
|               | RTBM16 | 36.8 | 98.6 | 308.8 | 12.7 |    | •  |
|               | RTBM17 | 36.8 | 98.6 | 308.8 | 12.7 |    | •  |
|               | RTBM18 | 36.8 | 98.6 | 308.8 | 12.7 |    | •  |
|               | RTBM19 | 36.8 | 98.6 | 308.8 | 12.7 |    | •  |



RTBM605

Sets include storage tray.

## T-Handle, inches

| Set Contains: | 12    | A      | B       | C       | D   | 12 |
|---------------|-------|--------|---------|---------|-----|----|
| RTB607        | RTB8  | 11/16  | 2-13/16 | 12-3/32 | 3/8 | •  |
|               | RTB10 | 11/16  | 2-13/16 | 12-3/32 | 3/8 | •  |
|               | RTB11 | 29/32  | 3       | 12-3/32 | 3/8 | •  |
|               | RTB12 | 29/32  | 3       | 12-3/32 | 3/8 | •  |
|               | RTB14 | 29/32  | 3       | 12-3/32 | 3/8 | •  |
|               | RTB16 | 1-5/32 | 3-13/32 | 12-5/32 | 1/2 | •  |
|               | RTB18 | 1-5/32 | 3-13/32 | 12-5/32 | 1/2 | •  |



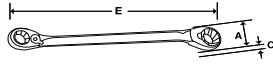
RTB607

Set includes storage tray.



- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## RATCHETING BOX (Blue-Point®)



**BXORM706**

### Reversible/Standard Handle, 25° Offset, mm (Blue-Point®)

Set  
Contains:  
**BXORM706**

| mm    | 12               | A         | C         | E     | 12 |
|-------|------------------|-----------|-----------|-------|----|
| 8-9   | <b>BXORM89</b>   | 18.0-19.3 | 6.4-7.6   | 184.2 | •  |
| 10-11 | <b>BXORM1011</b> | 21.8-22.1 | 8.1-8.6   | 203.2 | •  |
| 12-13 | <b>BXORM1213</b> | 23.6-24.6 | 8.9-10.2  | 222.3 | •  |
| 14-15 | <b>BXORM1415</b> | 27.2-28.7 | 10.2-10.9 | 241.3 | •  |
| 16-17 | <b>BXORM1617</b> | 31.0-32.0 | 10.9-11.9 | 260.4 | •  |
| 18-19 | <b>BXORM1819</b> | 34.5-36.8 | 12.2-13.2 | 279.4 | •  |

Set includes storage tray.



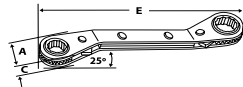
**BXOR704**

### Reversible/Standard Handle, 25° Offset, inches (Blue-Point®)

Set  
Contains:  
**BXOR704**

|           | 12              | A             | C           | E     | 12 |
|-----------|-----------------|---------------|-------------|-------|----|
| 5/16-3/8  | <b>BXOR1012</b> | 23/32-7/8     | 1/4-5/16    | 7-1/2 | •  |
| 7/16-1/2  | <b>BXOR1416</b> | 7/8-31/32     | 11/32-11/32 | 8-3/4 | •  |
| 9/16-5/8  | <b>BXOR1820</b> | 1-1/16-1-7/32 | 13/32-7/16  | 9-3/4 | •  |
| 11/16-3/4 | <b>BXOR2224</b> | 1-9/32-1-7/16 | 15/32-1/2   | 11    | •  |

Set includes storage tray.



**RBYAM605**

### Standard Handle, 25° Offset, mm (Blue-Point®)

Set  
Contains:  
**RBYAM605**

| mm    | 12              | A         | C    | E     | 12 |
|-------|-----------------|-----------|------|-------|----|
| 7-8   | <b>RYAM78</b>   | 15.5-16.3 | 9.5  | 105.2 | •  |
| 9-10  | <b>RYAM910</b>  | 19.8-22.6 | 9.5  | 134.5 | •  |
| 11-12 | <b>RYAM1112</b> | 25.4-29   | 12.7 | 165.9 | •  |
| 13-14 | <b>RYAM1314</b> | 25.4-29   | 12.7 | 165.9 | •  |
| 15-17 | <b>RYAM1517</b> | 33-36.5   | 12.7 | 197.2 | •  |
| 16-18 | <b>RYAM1618</b> | 33-36.5   | 12.7 | 197.2 | •  |
| 19-21 | <b>RYAM1921</b> | 35.7-40.1 | 12.7 | 224.2 | •  |

Set includes storage tray.



**RBYA605**

### Standard Handle, 25° Offset, inches (Blue-Point®)

Set  
Contains:  
**RBYA605**

|            | 12             | A             | C     | E       | 12 |
|------------|----------------|---------------|-------|---------|----|
| 1/4-5/16   | <b>RYA810</b>  | 9/16-5/8      | 11/32 | 4-9/32  | •  |
| 5/16-11/32 | <b>RYA1011</b> | 19/32-11/16   | 3/8   | 4-1/32  | •  |
| 3/8-7/16   | <b>RYA1214</b> | 3/4-7/8       | 11/32 | 6-5/32  | •  |
| 1/2-9/16   | <b>RYA1618</b> | 15/16-1       | 13/32 | 6-31/32 | •  |
| 9/16-3/4   | <b>RYA1824</b> | 1-9/32-1-7/16 | 1/2   | 8       | •  |
| 5/8-11/16  | <b>RYA2022</b> | 1-1/8-1-1/4   | 13/32 | 7-27/32 | •  |
| 3/4-7/8    | <b>RYA2428</b> | 1-3/8-1-1/2   | 7/16  | 8-5/8   | •  |

Set includes storage tray.

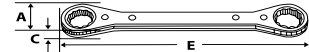
# RATCHETING BOX (Blue-Point®)

## Latch-on® Head, 0° Offset, mm (Blue-Point®)

- Latch-on® head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

| mm    | 12       | A         | C    | E     | 12 |
|-------|----------|-----------|------|-------|----|
| 7-8   | RBZM78   | 15.1-17.1 | 9.5  | 114.3 | •  |
| 9-10  | RBZM910  | 20.4-22.6 | 9.5  | 140.3 | •  |
| 11-12 | RBZM1112 | 25.8-29.4 | 12.7 | 174.6 | •  |
| 13-14 | RBZM1314 | 25.8-29.4 | 12.7 | 174.6 | •  |
| 15-17 | RBZM1517 | 32.9-36.5 | 12.7 | 206.4 | •  |
| 16-18 | RBZM1618 | 32.9-36.5 | 12.7 | 206.4 | •  |
| 19-21 | RBZM1921 | 35.7-40.1 | 12.7 | 234.9 | •  |

Set includes storage tray.



Set includes storage tray.

## Latch-on® Head, 0° Offset, inches (Blue-Point®)

- Latch-on® head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

|           | 12      | A               | C   | E     | 12 |
|-----------|---------|-----------------|-----|-------|----|
| 1/4-5/16  | RBZ810  | 19/32-11/16     | 3/8 | 4-1/2 | •  |
| 3/8-7/16  | RBZ1214 | 13/16-29/32     | 3/8 | 5-1/2 | •  |
| 1/2-9/16  | RBZ1618 | 1-1/32-1-5/32   | 1/2 | 6-7/8 | •  |
| 5/8-11/16 | RBZ2022 | 1-5/16-1-7/16   | 1/2 | 8-1/8 | •  |
| 3/4-7/8   | RBZ2428 | 1-13/32-1-19/32 | 1/2 | 9-1/4 | •  |

Set includes storage tray.

# LOCKING FLEX-HEAD REVERSIBLE RATCHETING BOX (Blue-Point®)

## Locking Flex Head Ratcheting Box/Cushion Grip, mm (Blue-Point®)

| mm | 12          | A    | B     | C  | D   | 12 |
|----|-------------|------|-------|----|-----|----|
| 8  | BOERMFLCG8  | 17.8 | 6.55  | 32 | 228 | •  |
| 9  | BOERMFLCG9  | 19.5 | 7.45  | 34 | 229 | •  |
| 10 | BOERMFLCG10 | 21.5 | 8.05  | 38 | 233 | •  |
| 11 | BOERMFLCG11 | 22   | 8.55  | 40 | 235 | •  |
| 12 | BOERMFLCG12 | 23.5 | 9.05  | 42 | 285 | •  |
| 13 | BOERMFLCG13 | 25   | 10.05 | 45 | 287 | •  |
| 14 | BOERMFLCG14 | 27   | 10.05 | 48 | 289 | •  |
| 15 | BOERMFLCG15 | 28.5 | 11.05 | 52 | 293 | •  |
| 16 | BOERMFLCG16 | 30.5 | 11.05 | 54 | 347 | •  |
| 17 | BOERMFLCG17 | 32   | 12.05 | 56 | 348 | •  |
| 18 | BOERMFLCG18 | 34.5 | 12.05 | 60 | 352 | •  |
| 19 | BOERMFLCG19 | 36.5 | 12.95 | 64 | 354 | •  |

ASME® B107.100

Set includes storage bag.

BOERMFLCG712

Set Contains:



BOERMFLCG712

## Locking Flex Head Ratcheting Box/Cushion Grip, inches (Blue-Point®)

|       | 12         | A      | B     | C       | D        | 12 |
|-------|------------|--------|-------|---------|----------|----|
| 5/16  | BOERFLCG10 | 23/32  | 1/4   | 1-1/4   | 9        | •  |
| 3/8   | BOERFLCG12 | 27/32  | 5/16  | 1-1/2   | 9-1/4    | •  |
| 7/16  | BOERFLCG14 | 7/8    | 11/32 | 1-9/16  | 9-19/32  | •  |
| 1/2   | BOERFLCG16 | 31/32  | 13/32 | 1-25/32 | 11-9/32  | •  |
| 9/16  | BOERFLCG18 | 1-1/16 | 13/32 | 1-29/32 | 11-3/8   | •  |
| 5/8   | BOERFLCG20 | 1-7/32 | 7/16  | 2-1/8   | 13-21/32 | •  |
| 11/16 | BOERFLCG22 | 1-1/4  | 15/32 | 2-7/32  | 13-23/32 | •  |
| 3/4   | BOERFLCG24 | 1-7/16 | 1/2   | 2-17/32 | 13-15/16 | •  |

ASME® B107.100

Set includes storage bag.

BOERFLCG708

Set Contains:



BOERFLCG708



**WARNING**

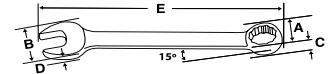


- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® PLUS COMBINATION



SOEXM710



SOEXM02FMBR

## Standard Handle, mm

Snap-on® Flank Drive® Plus combination wrenches exceed the limits of any other open-end design. The open end features a series of flutes or notches that grip a fastener away from its corners, much like our box ends do. Force is directed away from the weaker corners of the nut and directed to the stronger flats.

- **FLANK DRIVE® PLUS WRENCHING SYSTEM:** Provides flat-to-flat contact with fasteners; prevents slipping and rounding of fasteners; up to 62% more turning power and strength
- **LEVERAGE:** Longer length is sized for optimum comfort and balance; increased leverage, comfort and balance
- **ACCESSIBLE:** Handle is offset 15° from the box end for maximum knuckle clearance and increased access in any space
- **VERSATILE:** 7.5° rotation away from handle; wrench can be flipped for a better grip in tight spaces
- **POWERFUL:** Continuous arc design; distributes stress evenly, wrench end will not spread or widen
- **STRONG:** Manufactured from special alloy steel; precision-forged, cold formed and heat treated; nickel-chrome plating; optimum corrosion protection, strength and durability
- **FLANK DRIVE® WRENCHING SYSTEM:** Provides flat-to-flat contact with fasteners; prevents slipping and rounding of fasteners; providing up to 20% more turning power and strength

| mm | 12      | A  | B  | C  | D  | E   | Set Contains: |           |           |               |               |
|----|---------|----|----|----|----|-----|---------------|-----------|-----------|---------------|---------------|
|    |         |    |    |    |    |     | SOEXM710*     | SOEXM707* | SOEXM705* | SOEXM01FMBR** | SOEXM02FMBR** |
| 7  | SOEXM7  | 11 | 15 | 5  | 4  | 135 |               |           |           |               |               |
| 8  | SOEXM8  | 13 | 17 | 6  | 4  | 146 |               |           |           |               |               |
| 9  | SOEXM9  | 14 | 19 | 6  | 5  | 159 |               |           |           |               |               |
| 10 | SOEXM10 | 15 | 21 | 7  | 5  | 171 | •             | •         |           |               |               |
| 11 | SOEXM11 | 17 | 23 | 8  | 6  | 184 | •             | •         |           |               |               |
| 12 | SOEXM12 | 18 | 25 | 8  | 6  | 195 | •             | •         |           |               |               |
| 13 | SOEXM13 | 20 | 27 | 9  | 6  | 207 | •             | •         |           |               |               |
| 14 | SOEXM14 | 21 | 29 | 9  | 7  | 219 | •             | •         |           |               |               |
| 15 | SOEXM15 | 22 | 31 | 10 | 7  | 231 | •             | •         |           |               |               |
| 16 | SOEXM16 | 24 | 33 | 10 | 7  | 242 | •             |           |           |               |               |
| 17 | SOEXM17 | 25 | 35 | 11 | 8  | 255 | •             | •         |           |               |               |
| 18 | SOEXM18 | 27 | 37 | 12 | 8  | 267 | •             |           |           |               |               |
| 19 | SOEXM19 | 28 | 39 | 12 | 9  | 279 | •             |           |           |               |               |
| 20 | SOEXM20 | 30 | 41 | 13 | 9  | 292 |               |           | •         |               | •             |
| 21 | SOEXM21 | 31 | 43 | 13 | 9  | 304 |               |           | •         |               | •             |
| 22 | SOEXM22 | 33 | 46 | 14 | 10 | 318 |               |           | •         |               | •             |
| 23 | SOEXM23 | 34 | 47 | 14 | 10 | 327 |               |           | •         |               | •             |
| 24 | SOEXM24 | 35 | 49 | 15 | 11 | 337 |               |           | •         |               | •             |
| 25 | SOEXM25 | 37 | 52 | 16 | 11 | 356 |               |           |           |               | •             |

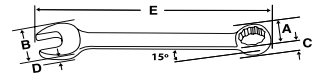
ASME® B107.100

\*Sets include storage tray.  
\*\*Sets include foam organizer.



# FLANK DRIVE® PLUS COMBINATION

# WRENCHES




SOEX710



SOEX01FMBR

## Standard Handle, inches

Selection, convenience and quality. Flank Drive® Plus combination wrenches are available in many different styles and sizes. Just like all Snap-on® wrenches, they are sized for optimum comfort and balance in the user's hand. Tough, durable nickel-chrome plating produces a mirror-like finish that helps protect against corrosion and makes it easy to wipe clean.

|  | 12     | Set Contains: |         |       |       |          |    | SOEX710* |    | SOEX707* |    | SOEX703K1* |    | SOEX704* |  | SOEX01FMBR** |  | SOEX02FMBR** |  |   |
|---|--------|---------------|---------|-------|-------|----------|----|----------|----|----------|----|------------|----|----------|--|--------------|--|--------------|--|---|
|   |        | A             | B       | C     | D     | E        | 12 | 12       | 12 | 12       | 12 | 12         | 12 | 12       |  |              |  |              |  |   |
| 1/4   | SOEX8  | 13/32         | 17/32   | 3/16  | 5/32  | 5        |    |          |    |          |    |            |    |          |  |              |  |              |  |   |
| 5/16  | SOEX10 | 1/2           | 21/32   | 7/32  | 5/32  | 5-3/4    | •  |          |    |          |    |            |    |          |  |              |  |              |  |   |
| 11/32   | SOEX11 | 17/32         | 23/32   | 1/4   | 3/16  | 6-1/8    |    |          |    |          |    |            |    |          |  |              |  |              |  |   |
| 3/8   | SOEX12 | 19/32         | 25/32   | 1/4   | 3/16  | 6-1/2    | •  | •        |    |          |    |            |    |          |  |              |  |              |  |   |
| 7/16  | SOEX14 | 21/32         | 29/32   | 9/32  | 7/32  | 7-1/4    | •  | •        |    |          |    |            |    |          |  |              |  |              |  |   |
| 1/2   | SOEX16 | 3/4           | 1-1/16  | 11/32 | 1/4   | 8        | •  | •        |    |          |    |            |    |          |  |              |  |              |  |   |
| 9/16  | SOEX18 | 27/32         | 1-5/32  | 3/8   | 9/32  | 8-3/4    | •  | •        |    |          |    |            |    |          |  |              |  |              |  |   |
| 5/8   | SOEX20 | 15/16         | 1-5/16  | 13/32 | 9/32  | 9-1/2    | •  | •        |    |          |    |            |    |          |  |              |  |              |  |   |
| 11/16   | SOEX22 | 1-1/32        | 1-13/32 | 7/16  | 5/16  | 10-1/4   | •  | •        |    |          |    |            |    |          |  |              |  |              |  |   |
| 3/4   | SOEX24 | 1-1/8         | 1-9/16  | 15/32 | 11/32 | 11       | •  | •        |    |          |    |            |    |          |  |              |  |              |  |   |
| 13/16   | SOEX26 | 1-3/16        | 1-21/32 | 17/32 | 3/8   | 11-3/4   | •  |          |    |          |    |            |    |          |  |              |  |              |  |   |
| 7/8   | SOEX28 | 1-9/32        | 1-13/16 | 9/16  | 3/8   | 12-1/2   | •  |          |    |          |    |            |    |          |  |              |  |              |  |   |
| 15/16   | SOEX30 | 1-3/8         | 1-29/32 | 19/32 | 13/32 | 13-1/4   |    |          |    |          |    |            |    | •        |  |              |  |              |  |   |
| 1   | SOEX32 | 1-15/32       | 2-1/32  | 5/8   | 7/16  | 14       |    |          |    |          |    |            |    | •        |  |              |  |              |  | • |
| 1-1/16  | SOEX34 | 1-9/16        | 2-5/32  | 19/32 | 15/32 | 14-3/4   |    |          |    |          |    |            |    | •        |  |              |  |              |  | • |
| 1-1/8   | SOEX36 | 1-5/8         | 2-5/16  | 11/16 | 15/32 | 15-17/32 |    |          |    |          |    |            |    | •        |  |              |  |              |  | • |
| 1-3/16  | SOEX38 | 1-23/32       | 2-13/32 | 23/32 | 1/2   | 16-1/4   |    |          |    |          |    |            |    | •        |  |              |  |              |  | • |
| 1-1/4   | SOEX40 | 1-13/16       | 2-9/16  | 3/4   | 17/32 | 17       |    |          |    |          |    |            |    | •        |  |              |  |              |  | • |
| 1-5/16  | SOEX42 | 1-29/32       | 2-21/32 | 3/4   | 9/16  | 17-25/32 |    |          |    |          |    |            |    | •        |  |              |  |              |  | • |

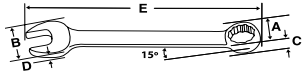
ASME® B107.100

\*Sets include storage tray.  
\*\*Sets include foam storage tray.



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

## FLANK DRIVE® PLUS COMBINATION



**SOEXLM710B**

### Long Handle, mm

Set Contains:

SOEXLM710B

| mm | 12        | A  | B  | C  | D | E   | 12 |
|----|-----------|----|----|----|---|-----|----|
| 10 | SOEXLM10B | 15 | 21 | 7  | 5 | 186 | •  |
| 11 | SOEXLM11B | 17 | 23 | 8  | 6 | 204 | •  |
| 12 | SOEXLM12B | 18 | 25 | 8  | 6 | 218 | •  |
| 13 | SOEXLM13B | 20 | 27 | 9  | 6 | 234 | •  |
| 14 | SOEXLM14B | 21 | 29 | 9  | 7 | 250 | •  |
| 15 | SOEXLM15B | 22 | 31 | 10 | 7 | 266 | •  |
| 16 | SOEXLM16B | 24 | 33 | 10 | 7 | 280 | •  |
| 17 | SOEXLM17B | 25 | 35 | 11 | 8 | 298 | •  |
| 18 | SOEXLM18B | 27 | 37 | 12 | 8 | 314 | •  |
| 19 | SOEXLM19B | 28 | 39 | 12 | 9 | 331 | •  |

Set includes storage tray.



**SOEXL707B**

### Long Handle, inches

Set Contains:

SOEXL707B

| in    | 12       | A       | B       | C     | D     | E  | 12 |
|-------|----------|---------|---------|-------|-------|----|----|
| 3/8   | SOEXL12B | 19/32   | 25/32   | 1/4   | 3/16  | 7  | •  |
| 7/16  | SOEXL14B | 21/32   | 29/32   | 9/32  | 7/32  | 8  | •  |
| 1/2   | SOEXL16B | 3/4     | 1-1/16  | 11/32 | 1/4   | 9  | •  |
| 9/16  | SOEXL18B | 27/32   | 1-5/32  | 3/8   | 9/32  | 10 | •  |
| 5/8   | SOEXL20B | 15/16   | 1-5/16  | 13/32 | 9/32  | 11 | •  |
| 11/16 | SOEXL22B | 1-1/32  | 1-13/32 | 7/16  | 5/16  | 12 | •  |
| 3/4   | SOEXL24B | 1-1/8   | 1-9/16  | 15/32 | 11/32 | 13 | •  |
| 13/16 | SOEXL26B | 1-3/16  | 1-21/32 | 17/32 | 3/8   | 14 | •  |
| 7/8   | SOEXL28B | 1-9/32  | 1-13/16 | 9/16  | 3/8   | 15 | •  |
| 15/16 | SOEXL30B | 1-3/8   | 1-29/32 | 19/32 | 13/32 | 16 | •  |
| 1     | SOEXL32B | 1-15/32 | 2-1/32  | 5/8   | 7/16  | 17 | •  |

Set includes storage tray.



**SOEXM150**

### Short Handle, mm

| mm | 12       | A  | B  | C  | D | E   |
|----|----------|----|----|----|---|-----|
| 10 | SOEXM100 | 15 | 21 | 7  | 5 | 133 |
| 11 | SOEXM110 | 17 | 23 | 8  | 6 | 138 |
| 12 | SOEXM120 | 18 | 25 | 8  | 6 | 143 |
| 13 | SOEXM130 | 20 | 27 | 9  | 6 | 148 |
| 14 | SOEXM140 | 21 | 29 | 9  | 7 | 152 |
| 15 | SOEXM150 | 22 | 31 | 10 | 7 | 157 |
| 17 | SOEXM170 | 25 | 35 | 11 | 8 | 167 |

# FLANK DRIVE® COMBINATION

# WRENCHES



OSHM713



OSHM707B



OEXM713B



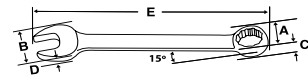
OEXM710B



OEXM707B



OEXM706



## Standard Handle, mm

| mm | Set Contains: |          |    |    |    |    |     |   |   |    |    |    |    |    |    |    |   |
|----|---------------|----------|----|----|----|----|-----|---|---|----|----|----|----|----|----|----|---|
|    | 6             | 12       | A  | B  | C  | D  | E   | 6 | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |   |
| 7  | OSHM70B       | —        | 11 | 15 | 5  | 4  | 135 | • |   |    |    |    |    |    |    |    |   |
| 8  | OSHM80B       | OEXM80B  | 13 | 17 | 6  | 4  | 146 | • |   | •  | •  |    |    |    |    |    |   |
| 9  | OSHM90B       | OEXM90B  | 14 | 19 | 6  | 5  | 159 | • |   | •  | •  |    |    |    |    |    |   |
| 10 | OSHM100B      | OEXM100B | 15 | 21 | 7  | 5  | 171 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 11 | OSHM110B      | OEXM110B | 17 | 23 | 8  | 6  | 184 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 12 | OSHM120B      | OEXM120B | 18 | 25 | 8  | 6  | 195 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 13 | OSHM130B      | OEXM130B | 20 | 27 | 9  | 6  | 207 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 14 | OSHM140B      | OEXM140B | 21 | 29 | 9  | 7  | 219 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 15 | OSHM150B      | OEXM150B | 22 | 31 | 10 | 7  | 231 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 16 | OSHM160B      | OEXM160B | 24 | 33 | 10 | 7  | 242 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 17 | OSHM170B      | OEXM170B | 25 | 35 | 11 | 8  | 255 | • | • | •  | •  | •  | •  | •  | •  |    |   |
| 18 | OSHM180B      | OEXM180B | 27 | 37 | 12 | 8  | 267 | • |   | •  | •  | •  | •  | •  |    |    |   |
| 19 | OSHM190B      | OEXM190B | 28 | 39 | 12 | 9  | 279 | • |   | •  | •  | •  | •  |    |    |    |   |
| 20 | —             | OEXM200B | 30 | 41 | 13 | 9  | 292 |   |   | •  | •  | •  |    |    |    | •  |   |
| 21 | —             | OEXM210B | 31 | 43 | 13 | 9  | 304 |   |   | •  | •  | •  |    |    |    | •  |   |
| 22 | —             | OEXM220B | 33 | 46 | 14 | 10 | 318 |   |   | •  | •  | •  |    |    |    | •  |   |
| 23 | —             | OEXM230B | 34 | 47 | 14 | 10 | 327 |   |   | •  | •  |    |    |    |    | •  |   |
| 24 | —             | OEXM240B | 35 | 49 | 15 | 11 | 337 |   |   | •  | •  |    |    |    |    | •  |   |
| 25 | —             | OEXM250B | 37 | 52 | 16 | 11 | 356 |   |   | •  | •  |    |    |    |    |    | • |
| 26 | —             | OEXM260B | 38 | 53 | 16 | 11 | 363 |   |   | •  | •  |    |    |    |    |    | • |
| 27 | —             | OEXM270B | 39 | 55 | 17 | 12 | 375 |   |   | •  | •  |    |    |    |    |    | • |
| 28 | —             | OEXM280B | 40 | 56 | 17 | 12 | 375 |   |   | •  | •  |    |    |    |    |    | • |
| 29 | —             | OEXM290B | 42 | 58 | 18 | 12 | 394 |   |   | •  | •  |    |    |    |    |    | • |
| 30 | —             | OEXM300B | 44 | 61 | 19 | 13 | 413 |   |   | •  | •  |    |    |    |    |    | • |
| 32 | —             | OEXM320B | 46 | 65 | 19 | 14 | 432 |   |   | •  | •  |    |    |    |    |    |   |
| 34 | —             | OEXM340B | 48 | 68 | 19 | 14 | 452 |   |   | •  |    |    |    |    |    |    |   |
| 36 | —             | OEXM360B | 53 | 74 | 22 | 15 | 489 |   |   | •  |    |    |    |    |    |    |   |

ASME®/ANSI® B107.100

\*Set includes storage tray.  
\*\*Set includes storage bag.



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

# FLANK DRIVE® COMBINATION



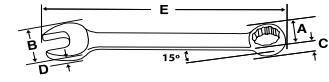
OSH711B



OEX707B



OEX704B



## Standard Handle, inches

| Inches  | Standard Handle, inches |        |         |         |        |       |          |   | Standard Handle, inches |    |    |    |    |    |    |    |    |    |    |  |
|---------|-------------------------|--------|---------|---------|--------|-------|----------|---|-------------------------|----|----|----|----|----|----|----|----|----|----|--|
|         | 6                       | 12     | A       | B       | C      | D     | E        | 6 | 6                       | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |  |
| 1/4     | —                       | OEX8B  | 13/32   | 17/32   | 3/16   | 5/32  | 5        |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 5/16    | OSH10B                  | OEX10B | 1/2     | 21/32   | 7/32   | 5/32  | 5-3/4    |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 11/32   | OSH11B                  | OEX11B | 17/32   | 3/4     | 1/4    | 3/16  | 6-1/8    |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 3/8     | OSH12B                  | OEX12B | 19/32   | 13/16   | 5/16   | 3/16  | 6-1/2    |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 7/16    | OSH14B                  | OEX14B | 21/32   | 29/32   | 5/16   | 7/32  | 7-1/4    |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1/2     | OSH16B                  | OEX16B | 3/4     | 1-1/16  | 11/32  | 1/4   | 8        |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 9/16    | OSH18B                  | OEX18B | 27/32   | 1-3/16  | 3/8    | 9/32  | 8-3/4    |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 5/8     | OSH20B                  | OEX20B | 15/16   | 1-5/16  | 13/32  | 9/32  | 9-1/2    |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 11/16   | OSH22B                  | OEX22B | 1-1/32  | 1-13/32 | 7/16   | 5/16  | 10-1/4   |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 3/4     | OSH24B                  | OEX24B | 1-1/8   | 1-9/16  | 15/32  | 11/32 | 11       |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 13/16   | OSH26B                  | OEX26B | 1-3/16  | 1-21/32 | 17/32  | 3/8   | 11-3/4   |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 7/8     | OSH28B                  | OEX28B | 1-9/32  | 1-13/16 | 9/16   | 3/8   | 12-1/2   |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 15/16   | OSH30B                  | OEX30B | 1-3/8   | 1-29/32 | 19/32  | 13/32 | 13-1/4   |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1       | OSH32B                  | OEX32B | 1-15/32 | 2-1/32  | 21/32  | 7/16  | 14       |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-1/16  | —                       | OEX34B | 1-9/16  | 2-3/16  | 11/16  | 15/32 | 14-3/4   |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-1/8   | —                       | OEX36B | 1-5/8   | 2-5/16  | 11/16  | 17/32 | 15-7/16  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-3/16  | —                       | OEX38B | 1-3/4   | 2-7/16  | 3/4    | 1/2   | 16-5/16  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-1/4   | —                       | OEX40B | 1-13/16 | 2-9/16  | 3/4    | 17/32 | 17-1/16  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-5/16  | —                       | OEX42B | 1-29/32 | 2-21/32 | 3/4    | 9/16  | 17-13/16 |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-3/8   | —                       | OEX44B | 2       | 2-13/16 | 3/4    | 19/32 | 18-9/16  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-7/16  | —                       | OEX46B | 2-1/16  | 2-29/32 | 7/8    | 19/32 | 19-1/32  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-1/2   | —                       | OEX48B | 2-5/32  | 3-1/16  | 7/8    | 5/8   | 20-1/16  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-9/16  | —                       | OEX50B | 2-1/4   | 3-3/16  | 7/8    | 23/32 | 20-13/16 |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-5/8   | —                       | OEX52B | 2-11/32 | 3-11/32 | 7/8    | 11/16 | 21-9/16  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-11/16 | —                       | OEX54A | 2-7/16  | 3-13/32 | 7/8    | 23/32 | 22-9/32  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-3/4   | —                       | OEX56A | 2-17/32 | 3-9/16  | 1-1/32 | 23/32 | 22-7/8   |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-13/16 | —                       | OEX58A | 2-5/8   | 3-21/32 | 1-1/32 | 3/4   | 23-15/32 |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 1-7/8   | —                       | OEX60A | 2-11/32 | 3-13/16 | 1-1/32 | 25/32 | 24-1/32  |   |                         |    |    |    |    |    |    |    |    |    |    |  |
| 2       | —                       | OEX64A | 2-7/8   | 4-1/16  | 1-1/32 | 27/32 | 25-1/4   |   |                         |    |    |    |    |    |    |    |    |    |    |  |

ASME® B107.100

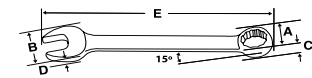
OEX32B – OEX52B are full polished chrome. OEX54A – OEX64A are satin finish chrome.

\*Set includes storage tray.

\*\*Set includes storage bag.



GOEXM715



## Standard Handle, mm, Industrial

| mm | Standard Handle, mm, Industrial |    |    |    |   |     |   | 12 |
|----|---------------------------------|----|----|----|---|-----|---|----|
|    | 12                              | A  | B  | C  | D | E   |   |    |
| 10 | GOEXM100B                       | 15 | 21 | 7  | 5 | 171 | • |    |
| 11 | GOEXM110B                       | 17 | 23 | 8  | 6 | 184 | • |    |
| 12 | GOEXM120B                       | 18 | 25 | 8  | 6 | 195 | • |    |
| 13 | GOEXM130B                       | 20 | 27 | 9  | 6 | 207 | • |    |
| 14 | GOEXM140B                       | 21 | 29 | 9  | 7 | 219 | • |    |
| 15 | GOEXM150B                       | 22 | 31 | 10 | 7 | 231 | • |    |
| 16 | GOEXM160B                       | 24 | 33 | 10 | 7 | 242 | • |    |
| 17 | GOEXM170B                       | 25 | 35 | 11 | 8 | 255 | • |    |

| mm | Standard Handle, mm, Industrial |    |    |    |    |     |   | 12 |
|----|---------------------------------|----|----|----|----|-----|---|----|
|    | 12                              | A  | B  | C  | D  | E   |   |    |
| 18 | GOEXM180B                       | 27 | 37 | 12 | 8  | 267 | • |    |
| 19 | GOEXM190B                       | 28 | 39 | 12 | 9  | 279 | • |    |
| 20 | GOEXM200B                       | 30 | 41 | 13 | 9  | 292 | • |    |
| 21 | GOEXM210B                       | 31 | 43 | 13 | 10 | 304 | • |    |
| 22 | GOEXM220B                       | 33 | 46 | 14 | 10 | 318 | • |    |
| 23 | GOEXM230B                       | 34 | 47 | 14 | 10 | 327 | • |    |
| 24 | GOEXM240B                       | 35 | 49 | 15 | 11 | 337 | • |    |
| 27 | GOEXM270B                       | 39 | 55 | 17 | 12 | 375 | • |    |

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Set includes storage tray.

# FLANK DRIVE® COMBINATION

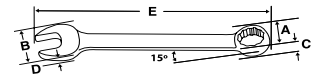
WRENCHES



GOEX722K



GOEX711B



GOEX56A



GOEX1100A

## Standard Handle, inches, Industrial

| 12      | 12        | A       | B       | C      | D      | E        | Set Contains: |    |    |    |
|---------|-----------|---------|---------|--------|--------|----------|---------------|----|----|----|
|         |           |         |         |        |        |          | 12            | 12 | 12 | 12 |
| 5/16    | GOEX10B   | 1/2     | 21/32   | 7/32   | 5/32   | 5-3/4    | •             |    |    |    |
| 3/8     | GOEX12B   | 19/32   | 13/16   | 5/16   | 3/16   | 6-1/2    | •             | •  | •  | •  |
| 7/16    | GOEX14B   | 21/32   | 29/32   | 5/16   | 7/32   | 7-1/4    | •             | •  | •  | •  |
| 1/2     | GOEX16B   | 3/4     | 1-1/16  | 11/32  | 1/4    | 8        | •             | •  | •  | •  |
| 9/16    | GOEX18B   | 27/32   | 1-3/16  | 3/8    | 9/32   | 8-3/4    | •             | •  | •  | •  |
| 5/8     | GOEX20B   | 15/16   | 1-5/16  | 13/32  | 9/32   | 9-1/2    | •             | •  | •  | •  |
| 11/16   | GOEX22B   | 1-1/32  | 1-13/32 | 7/16   | 5/16   | 10-1/4   | •             | •  | •  | •  |
| 3/4     | GOEX24B   | 1-1/8   | 1-9/16  | 15/32  | 11/32  | 11       | •             | •  | •  | •  |
| 13/16   | GOEX26B   | 1-3/16  | 1-21/32 | 17/32  | 3/8    | 11-3/4   | •             | •  | •  |    |
| 7/8     | GOEX28B   | 1-9/32  | 1-13/16 | 9/16   | 3/8    | 12-1/2   | •             | •  | •  |    |
| 15/16   | GOEX30B   | 1-3/8   | 1-29/32 | 19/32  | 13/32  | 13-1/4   | •             | •  | •  |    |
| 1       | GOEX32B   | 1-15/32 | 2-1/32  | 21/32  | 7/16   | 14       | •             | •  | •  |    |
| 1-1/16  | GOEX34B   | 1-9/16  | 2-3/16  | 11/16  | 15/32  | 14-3/4   | •             | •  |    |    |
| 1-1/8   | GOEX36B   | 1-5/8   | 2-5/16  | 11/16  | 17/32  | 15-7/16  | •             | •  |    |    |
| 1-3/16  | GOEX38B   | 1-3/4   | 2-7/16  | 3/4    | 1/2    | 16-5/16  | •             |    |    |    |
| 1-1/4   | GOEX40B   | 1-13/16 | 2-9/16  | 3/4    | 17/32  | 17-1/16  | •             | •  |    |    |
| 1-5/16  | GOEX42B   | 1-29/32 | 2-21/32 | 3/4    | 9/16   | 17-13/16 | •             |    |    |    |
| 1-3/8   | GOEX44B   | 2       | 2-13/16 | 3/4    | 19/32  | 18-9/16  | •             |    |    |    |
| 1-7/16  | GOEX46B   | 2-1/16  | 2-29/32 | 7/8    | 19/32  | 19-1/32  | •             |    |    |    |
| 1-1/2   | GOEX48B   | 2-5/32  | 3-1/16  | 7/8    | 5/8    | 20-1/16  | •             |    |    |    |
| 1-9/16  | GOEX50B   | 2-1/4   | 3-3/16  | 7/8    | 23/32  | 20-13/16 | •             |    |    |    |
| 1-5/8   | GOEX52B   | 2-11/32 | 3-11/32 | 7/8    | 11/16  | 21-9/16  | •             |    |    |    |
| 1-3/4   | GOEX56A   | 2-17/32 | 3-9/16  | 1-1/32 | 23/32  | 22-7/8   |               |    |    |    |
| 1-13/16 | GOEX58A   | 2-5/8   | 3-21/32 | 1-1/32 | 3/4    | 23-15/32 |               |    |    |    |
| 1-7/8   | GOEX60A   | 2-11/32 | 3-13/16 | 1-1/32 | 25/32  | 24-1/32  |               |    |    |    |
| 2       | GOEX64A   | 2-7/8   | 4-1/16  | 1-1/32 | 27/32  | 25-1/4   |               |    |    |    |
| 2-1/16  | GOEX66A   | 2-31/32 | 4-5/32  | 1-1/8  | 27/32  | 25-25/32 |               |    |    |    |
| 2-1/8   | GOEX68A   | 3-1/16  | 4-5/16  | 1-5/32 | 7/8    | 26-3/8   |               |    |    |    |
| 2-3/16  | GOEX70A   | 3-1/8   | 4-13/32 | 1-1/8  | 7/8    | 26-31/32 |               |    |    |    |
| 2-1/4   | GOEX72A   | 3-7/32  | 4-9/16  | 1-1/8  | 15/16  | 27-9/16  |               |    |    |    |
| 2-3/8   | GOEX76A   | 3-13/32 | 4-13/16 | 1-9/32 | 31/32  | 28-3/4   |               |    |    |    |
| 2-1/2   | GOEX80A   | 3-19/32 | 5-1/16  | 1-9/32 | 1      | 29-29/32 |               |    |    |    |
| 2-5/8   | GOEX84A   | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |
| 2-3/4   | GOEX88A   | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |
| 2-7/8   | GOEX92A   | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |
| 2-15/16 | GOEX94A   | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |
| 3       | GOEX96A   | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |
| 3-1/8   | GOEX1100A | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |
| 3-3/8   | GOEX1108A | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |
| 3-1/2   | GOEX1112A | 4-7/8   | 6-5/8   | 1-5/8  | 1-3/16 | 32       |               |    |    |    |

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\*Set includes storage tray.  
\*\*Set includes storage bag.  
\*\*\*Set includes storage bag C2200.



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

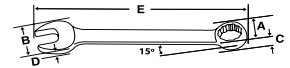
# FLANK DRIVE® COMBINATION



OEMLM710B



OEXL707B



## Long Handle, mm

Set Contains:

| mm | 12       | A  | B  | C  | D | E   | OEMLM710B |    | OEXL707B |    |
|----|----------|----|----|----|---|-----|-----------|----|----------|----|
|    |          |    |    |    |   |     | 12        | 12 | 12       | 12 |
| 10 | OEMLM10B | 15 | 21 | 7  | 5 | 186 | •         | •  |          |    |
| 11 | OEMLM11B | 17 | 23 | 8  | 6 | 203 | •         | •  |          |    |
| 12 | OEMLM12B | 18 | 25 | 8  | 6 | 218 | •         | •  |          |    |
| 13 | OEMLM13B | 20 | 27 | 9  | 6 | 234 | •         | •  |          |    |
| 14 | OEMLM14B | 21 | 29 | 9  | 7 | 250 | •         | •  |          |    |
| 15 | OEMLM15B | 22 | 31 | 10 | 7 | 266 | •         | •  |          |    |
| 16 | OEMLM16B | 24 | 33 | 10 | 7 | 282 | •         | •  |          |    |
| 17 | OEMLM17B | 25 | 35 | 11 | 8 | 298 | •         | •  |          |    |
| 18 | OEMLM18B | 27 | 37 | 12 | 8 | 314 | •         | •  |          |    |
| 19 | OEMLM19B | 28 | 39 | 12 | 9 | 330 | •         | •  |          |    |

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Sets include storage tray.

## Long Handle, inches

Set Contains:

| in    | 12      | A       | B       | C     | D     | E  | OEXL707B |    | OEXL707B |    |
|-------|---------|---------|---------|-------|-------|----|----------|----|----------|----|
|       |         |         |         |       |       |    | 12       | 12 | 12       | 12 |
| 3/8   | OEXL12B | 19/32   | 25/32   | 1/4   | 3/16  | 7  | •        | •  |          |    |
| 7/16  | OEXL14B | 21/32   | 29/32   | 5/16  | 7/32  | 8  | •        | •  |          |    |
| 1/2   | OEXL16B | 3/4     | 1-1/16  | 11/32 | 1/4   | 9  | •        | •  |          |    |
| 9/16  | OEXL18B | 27/32   | 1-5/32  | 3/8   | 9/32  | 10 | •        | •  |          |    |
| 5/8   | OEXL20B | 15/16   | 1-5/16  | 13/32 | 9/32  | 11 | •        | •  |          |    |
| 11/16 | OEXL22B | 1-1/32  | 1-13/32 | 7/16  | 5/16  | 12 | •        | •  |          |    |
| 3/4   | OEXL24B | 1-1/8   | 1-9/16  | 15/32 | 11/32 | 13 | •        | •  |          |    |
| 13/16 | OEXL26B | 1-3/16  | 1-21/32 | 17/32 | 3/8   | 14 | •        | •  |          |    |
| 7/8   | OEXL28B | 1-9/32  | 1-13/16 | 9/16  | 3/8   | 15 | •        | •  |          |    |
| 15/16 | OEXL30B | 1-3/8   | 1-29/32 | 19/32 | 13/32 | 16 | •        | •  |          |    |
| 1     | OEXL32B | 1-15/32 | 2-1/32  | 5/8   | 7/16  | 17 | •        | •  |          |    |

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Set includes storage tray.

## Short Handle, mm

Set Contains:

| mm | 12      | 12       | A  | B  | C  | D  | E   | OEXSM719 |    | OEXSM714K** |    | OEXSM710B* |    |
|----|---------|----------|----|----|----|----|-----|----------|----|-------------|----|------------|----|
|    |         |          |    |    |    |    |     | 12       | 12 | 12          | 12 | 12         | 12 |
| 6  | OEXM6B  | GOEXM6B  | 10 | 13 | 5  | 4  | 113 | •        | •  |             |    |            |    |
| 7  | OEXM7B  | GOEXM7B  | 11 | 15 | 5  | 4  | 118 | •        | •  |             |    |            |    |
| 8  | OEXM8B  | GOEXM8B  | 13 | 17 | 6  | 4  | 123 | •        | •  |             |    |            |    |
| 9  | OEXM9B  | GOEXM9B  | 14 | 19 | 6  | 5  | 128 | •        | •  |             |    |            |    |
| 10 | OEXM10B | GOEXM10B | 15 | 21 | 7  | 5  | 133 | •        | •  | •           |    |            |    |
| 11 | OEXM11B | GOEXM11B | 17 | 23 | 8  | 6  | 138 | •        | •  | •           |    |            |    |
| 12 | OEXM12B | GOEXM12B | 18 | 25 | 8  | 6  | 142 | •        | •  | •           |    |            |    |
| 13 | OEXM13B | GOEXM13B | 20 | 27 | 9  | 6  | 148 | •        | •  | •           |    |            |    |
| 14 | OEXM14B | GOEXM14B | 21 | 29 | 9  | 7  | 152 | •        | •  | •           |    |            |    |
| 15 | OEXM15B | GOEXM15B | 22 | 31 | 10 | 7  | 157 | •        | •  | •           |    |            |    |
| 16 | OEXM16B | GOEXM16B | 24 | 33 | 10 | 7  | 162 | •        | •  | •           |    |            |    |
| 17 | OEXM17B | GOEXM17B | 25 | 35 | 11 | 8  | 167 | •        | •  | •           |    |            |    |
| 18 | OEXM18B | GOEXM18B | 27 | 37 | 12 | 8  | 172 | •        | •  | •           |    |            |    |
| 19 | OEXM19B | GOEXM19B | 28 | 39 | 12 | 9  | 177 | •        | •  | •           |    |            |    |
| 20 | OEXM20B | —        | 30 | 41 | 13 | 9  | 182 | •        |    |             |    |            |    |
| 21 | OEXM21B | —        | 31 | 43 | 13 | 9  | 186 | •        |    |             |    |            |    |
| 22 | OEXM22B | —        | 31 | 43 | 13 | 9  | 186 | •        |    |             |    |            |    |
| 23 | OEXM23B | —        | 34 | 47 | 14 | 10 | 197 | •        |    |             |    |            |    |
| 24 | OEXM24B | —        | 35 | 49 | 15 | 11 | 201 | •        |    |             |    |            |    |

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\*Sets include storage tray.

\*\*Sets include storage bag C1402.



GOEXM17B



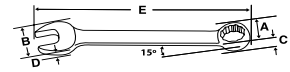
OEXSM710B

# FLANK DRIVE® COMBINATION

# WRENCHES



GOEX200B



## Short Handle, inches

|        | Set Contains: |          |         |         |       |       |         | OEXS715K**<br>OEXS709B* |    |    |
|--------|---------------|----------|---------|---------|-------|-------|---------|-------------------------|----|----|
|        | 12            | 12       | A       | B       | C     | D     | E       | 12                      | 12 | 12 |
| 1/4    | OEX080B       | GOEX080B | 13/32   | 17/32   | 3/16  | 5/32  | 4-17/32 | •                       | •  |    |
| 9/32   | OEX090B       | —        | 7/16    | 19/32   | 7/32  | 5/32  | 4-21/32 | •                       | •  |    |
| 5/16   | OEX100B       | GOEX100B | 1/2     | 21/32   | 7/32  | 5/32  | 4-27/32 | •                       | •  | •  |
| 11/32  | OEX110B       | GOEX110B | 17/32   | 23/32   | 1/4   | 3/16  | 5       | •                       | •  | •  |
| 3/8    | OEX120B       | GOEX120B | 19/32   | 25/32   | 1/4   | 3/16  | 5-1/8   | •                       | •  | •  |
| 7/16   | OEX140B       | GOEX140B | 21/32   | 29/32   | 5/16  | 7/32  | 5-7/16  | •                       | •  | •  |
| 1/2    | OEX160B       | GOEX160B | 3/4     | 1-1/16  | 11/32 | 1/4   | 5-3/4   | •                       | •  | •  |
| 9/16   | OEX180B       | GOEX180B | 27/32   | 1-5/32  | 3/8   | 9/32  | 6-1/16  | •                       | •  | •  |
| 5/8    | OEX200B       | GOEX200B | 15/16   | 1-5/16  | 13/32 | 9/32  | 6-11/32 | •                       | •  | •  |
| 11/16  | OEX220B       | GOEX220B | 1-1/32  | 1-13/32 | 7/16  | 5/16  | 6-21/32 | •                       | •  | •  |
| 3/4    | OEX240B       | GOEX240B | 1-1/8   | 1-9/16  | 15/32 | 11/32 | 6-31/32 | •                       | •  | •  |
| 13/16  | OEX260B       | GOEX260B | 1-3/16  | 1-21/32 | 17/32 | 3/8   | 7-9/32  | •                       | •  |    |
| 7/8    | OEX280B       | GOEX280B | 1-9/32  | 1-13/16 | 9/16  | 3/8   | 7-9/16  | •                       | •  |    |
| 15/16  | OEX300B       | GOEX300B | 1-3/8   | 1-29/32 | 19/32 | 13/32 | 7-7/8   | •                       | •  |    |
| 1      | OEX320B       | GOEX320B | 1-15/32 | 2-1/32  | 5/8   | 7/16  | 8-3/16  | •                       | •  |    |
| 1-1/16 | OEX340B       | —        | 1-9/16  | 2-5/32  | 21/32 | 15/32 | 8-17/32 | •                       |    |    |
| 1-1/8  | OEX360B       | —        | 1-5/8   | 2-5/16  | 11/16 | 1/2   | 8-27/32 | •                       |    |    |
| 1-3/16 | OEX380B       | —        | 1-23/32 | 2-13/32 | 23/32 | 1/2   | 9-1/8   | •                       |    |    |
| 1-1/4  | OEX400B       | —        | 1-13/16 | 2-9/16  | 3/4   | 17/32 | 9-7/16  | •                       |    |    |
| 1-5/16 | OEX420B       | —        | 1-29/32 | 2-21/32 | 3/4   | 9/16  | 9-3/4   | •                       |    |    |
| 1-3/8  | OEX440B       | —        | 2       | 2-13/16 | 3/4   | 19/32 | 10-1/16 | •                       |    |    |

ASME® B107.100

\*Set includes storage tray.  
\*\*Set includes storage bag.



OEXS715K



OEXS709B

## Midget, mm

|     | Set Contains: |         |    |    |    |   |     |          | OXIM707SBK**<br>OXIM710B* |    |
|-----|---------------|---------|----|----|----|---|-----|----------|---------------------------|----|
|     | 6             | 12      | A  | B  | C  | D | E   | Style    | 6                         | 12 |
| 4   | OXIM4SB       | —       | 7  | 10 | 4  | 3 | 72  | 6-Point  | •                         |    |
| 5   | OXIM5SB       | —       | 8  | 12 | 4  | 3 | 76  | 6-Point  | •                         |    |
| 5.5 | OXIM55SB      | —       | 9  | 13 | 4  | 4 | 79  | 6-Point  | •                         |    |
| 6   | OXIM6SB       | OXIM6B  | 10 | 13 | 5  | 4 | 81  | 12-Point | •                         |    |
| 7   | OXIM7SB       | OXIM7B  | 11 | 15 | 5  | 4 | 85  | 6-Point  | •                         |    |
| 8   | OXIM8SB       | OXIM8B  | 13 | 17 | 6  | 4 | 89  | 6-Point  | •                         |    |
| 9   | OXIM9SB       | OXIM9B  | 14 | 19 | 6  | 5 | 93  | 6-Point  | •                         |    |
| 10  | —             | OXIM10B | 15 | 21 | 7  | 5 | 98  | 12-Point |                           | •  |
| 11  | —             | OXIM11B | 17 | 23 | 8  | 6 | 102 | 12-Point |                           | •  |
| 12  | —             | OXIM12B | 18 | 25 | 8  | 6 | 106 | 12-Point |                           | •  |
| 13  | —             | OXIM13B | 20 | 27 | 9  | 6 | 110 | 12-Point |                           | •  |
| 14  | —             | OXIM14B | 21 | 29 | 9  | 7 | 115 | 12-Point |                           | •  |
| 15  | —             | OXIM15B | 22 | 31 | 10 | 7 | 119 | 12-Point |                           | •  |
| 16  | —             | OXIM16B | 24 | 33 | 10 | 7 | 122 | 12-Point |                           | •  |
| 17  | —             | OXIM17B | 25 | 35 | 11 | 8 | 127 | 12-Point |                           | •  |
| 18  | —             | OXIM18B | 27 | 37 | 12 | 8 | 131 | 12-Point |                           | •  |
| 19  | —             | OXIM19B | 28 | 39 | 12 | 9 | 136 | 12-Point |                           | •  |

ASME® B107.100

\*Set includes storage tray.  
\*\*Set includes storage bag.

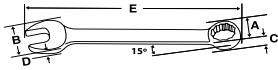


OXIM707SBK



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

# FLANK DRIVE® COMBINATION



**OXI709SBK**

## Midget, inches

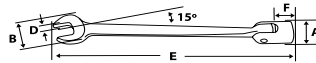
| Set Contains: | OXI709SBK* |        |    | OXI707BK* |         |       |       | OXI706B** |   |    |    |
|---------------|------------|--------|----|-----------|---------|-------|-------|-----------|---|----|----|
|               | 11         | 6      | 12 | A         | B       | C     | D     | E         | 6 | 12 | 12 |
| 1/8           | OXI4SB     | —      | —  | 7/32      | 11/32   | 1/8   | 1/8   | 2-11/16   | • |    |    |
| 5/32          | OXI5SB     | —      | —  | 9/32      | 13/32   | 5/32  | 1/8   | 2-27/32   | • |    |    |
| 3/16          | OXI6SB     | OXI6B  | —  | 5/16      | 7/16    | 5/32  | 1/8   | 2-31/32   | • | •  |    |
| 7/32          | OXI7SB     | OXI7B  | —  | 3/8       | 1/2     | 3/16  | 1/8   | 3-3/32    | • | •  |    |
| 1/4           | OXI8SB     | OXI8B  | —  | 13/32     | 17/32   | 3/16  | 5/32  | 3-7/32    | • | •  |    |
| 9/32          | OXI9SB     | OXI9B  | —  | 7/16      | 19/32   | 7/32  | 5/32  | 3-11/32   | • | •  |    |
| 5/16          | OXI10SB    | OXI10B | —  | 1/2       | 21/32   | 7/32  | 5/32  | 3-1/2     | • | •  |    |
| 11/32         | OXI11SB    | OXI11B | —  | 17/32     | 23/32   | 1/4   | 3/16  | 3-5/8     | • | •  |    |
| 3/8           | OXI12SB    | OXI12B | —  | 19/32     | 25/32   | 1/4   | 3/16  | 3-3/4     | • | •  |    |
| 7/16          | —          | OXI14B | —  | 21/32     | 29/32   | 5/16  | 7/32  | 4-1/32    |   |    | •  |
| 1/2           | —          | OXI16B | —  | 3/4       | 1-1/16  | 11/32 | 1/4   | 4-9/32    |   |    | •  |
| 9/16          | —          | OXI18B | —  | 27/32     | 1-5/32  | 3/8   | 9/32  | 4-17/32   |   |    | •  |
| 5/8           | —          | OXI20B | —  | 15/16     | 1-5/16  | 13/32 | 9/32  | 4-13/16   |   |    | •  |
| 11/16         | —          | OXI22B | —  | 1-1/32    | 1-13/32 | 7/16  | 5/16  | 5-1/16    |   |    | •  |
| 3/4           | —          | OXI24B | —  | 1-1/8     | 1-9/16  | 15/32 | 11/32 | 5-11/32   |   |    | •  |

ASME® B107.100

\* Set includes storage bag.  
\*\* Set includes storage tray.



**FHOM606B**



**FHO607B**

## Flex Combination, mm

| Set Contains: | FHOM606B |    |    |   |     |    |   |    |
|---------------|----------|----|----|---|-----|----|---|----|
|               | mm       | 12 | A  | B | D   | E  | F | 12 |
| 8             | FHOM8B   | 12 | 17 | 5 | 146 | 6  |   |    |
| 9             | FHOM9B   | 13 | 18 | 5 | 156 | 6  |   |    |
| 10            | FHOM10B  | 14 | 20 | 5 | 166 | 6  | • |    |
| 11            | FHOM11B  | 16 | 23 | 6 | 181 | 7  |   | •  |
| 12            | FHOM12B  | 17 | 30 | 6 | 198 | 9  |   | •  |
| 13            | FHOM13B  | 19 | 27 | 7 | 205 | 9  |   | •  |
| 14            | FHOM14B  | 20 | 30 | 7 | 213 | 9  |   | •  |
| 15            | FHOM15B  | 21 | 31 | 7 | 224 | 10 |   | •  |
| 16            | FHOM16B  | 23 | 33 | 7 | 229 | 10 |   | •  |
| 17            | FHOM17B  | 24 | 37 | 8 | 246 | 10 |   | •  |
| 18            | FHOM18B  | 24 | 38 | 8 | 254 | 11 |   | •  |
| 19            | FHOM19B  | 26 | 40 | 8 | 261 | 12 |   | •  |

ASME® B107.100

Set includes storage tray.

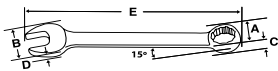
## Flex Combination, inches

| Set Contains: | FHO607B |        |         |      |          |       |   |    |
|---------------|---------|--------|---------|------|----------|-------|---|----|
|               | 11      | 12     | A       | B    | D        | E     | F | 12 |
| 1/4           | FHO8B   | 3/8    | 17/32   | 1/8  | 4-15/16  | 7/32  |   |    |
| 5/16          | FHO10B  | 15/32  | 21/32   | 3/16 | 5-31/32  | 1/4   |   |    |
| 3/8           | FHO12B  | 9/16   | 17/32   | 7/32 | 6-1/2    | 1/4   | • |    |
| 7/16          | FHO14B  | 5/8    | 29/32   | 7/32 | 7-1/8    | 9/32  | • |    |
| 1/2           | FHO16B  | 23/32  | 1-1/16  | 1/4  | 7-13/16  | 11/32 | • |    |
| 9/16          | FHO18B  | 25/32  | 1-3/16  | 9/32 | 8-3/8    | 11/32 | • |    |
| 5/8           | FHO20B  | 29/32  | 1-5/16  | 9/32 | 9        | 3/8   | • |    |
| 11/16         | FHO22B  | 1      | 1-7/16  | 9/32 | 9-11/16  | 13/32 | • |    |
| 3/4           | FHO24B  | 1-1/32 | 1-1/2   | 5/16 | 10-1/4   | 15/32 | • |    |
| 13/16         | FHO26B  | 1-1/32 | 1-23/32 | 5/16 | 10-5/16  | 1/2   |   |    |
| 7/8           | FHO28B  | 1-3/16 | 1-27/32 | 5/16 | 10-15/32 | 9/16  |   |    |

ASME® B107.100

Set includes storage tray.

## British Standard, Short Handle



**WOEX90B**

| BS    | Decimal Equivalent, inches | 12       |        |        |      |       |         |
|-------|----------------------------|----------|--------|--------|------|-------|---------|
|       |                            | A        | B      | C      | D    | E     |         |
| 3/16" | .338                       | WOEX6B   | 25/32  | 19/32  | 3/16 | 1/4   | 5-3/32  |
| 1BA   | .365                       | WOEX70B  | 25/32  | 19/32  | 3/16 | 1/4   | 5-1/8   |
| 0BA   | .413                       | WOEX80B  | 29/32  | 21/32  | 7/32 | 5/16  | 5-13/32 |
| 1/4"  | .445                       | WOEX90B  | 29/32  | 21/32  | 7/32 | 5/16  | 5-15/32 |
| 5/16" | .525                       | WOEX100B | 1-5/32 | 27/32  | 9/32 | 3/8   | 6-1/32  |
| 3/8   | 0.6                        | WOEX110B | 1-5/16 | 15/16  | 9/32 | 13/32 | 6-11/32 |
| 7/16" | .710                       | WOEX120B | 1-5/16 | 1-1/32 | 5/16 | 7/16  | 6-23/32 |



# SPLINE COMBINATION

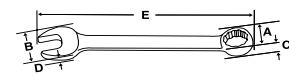
## Short Handle, inches

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. The unique spline wrenching configuration can also be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



OES18B

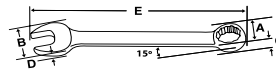


|       |     | Stock No. | A      | B      | C     | D     | E       |
|-------|-----|-----------|--------|--------|-------|-------|---------|
| 1/4   | #8  | OES8B     | 13/32  | 17/32  | 1/8   | 5/32  | 4-1/2   |
| 5/16  | #10 | OES10B    | 15/32  | 21/32  | 11/64 | 15/64 | 4-55/64 |
| 3/8   | #12 | OES12B    | 17/32  | 25/32  | 13/64 | 17/64 | 5-7/32  |
| 7/16  | #14 | OES14B    | 5/8    | 29/32  | 15/64 | 5/16  | 5-27/64 |
| 1/2   | #16 | OES16B    | 23/32  | 1-1/16 | 1/4   | 5/16  | 5-47/64 |
| 9/16  | #18 | OES18B    | 13/16  | 1-3/16 | 17/64 | 21/64 | 6-1/32  |
| 5/8   | #20 | OES20B    | 7/8    | 1-5/16 | 9/32  | 11/32 | 6-5/16  |
| 11/16 | #22 | OES22B    | 31/32  | 1-7/16 | 19/64 | 23/64 | 6-39/64 |
| 3/4   | #24 | OES24B    | 1-1/16 | 1-9/16 | 5/16  | 3/8   | 6-29/32 |

## COMBINATION (Blue-Point®)



BLPCWSM712B



BLPCW10B

## Standard Handle, mm (Blue-Point®)

Set Contains:

BLPCWSM712B

|    | Stock No. | E     |   |
|----|-----------|-------|---|
| 8  | BLPCWM8B  | 139.5 | • |
| 9  | BLPCWM9B  | 151.6 | • |
| 10 | BLPCWM10B | 162.7 | • |
| 11 | BLPCWM11B | 175.2 | • |
| 12 | BLPCWM12B | 185.6 | • |
| 13 | BLPCWM13B | 197.2 | • |
| 14 | BLPCWM14B | 208.5 | • |
| 15 | BLPCWM15B | 219.9 | • |
| 16 | BLPCWM16B | 230.0 | • |
| 17 | BLPCWM17B | 243.3 | • |
| 18 | BLPCWM18B | 254.1 | • |
| 19 | BLPCWM19B | 265.9 | • |

Set includes storage tray.

## Standard Handle, inches (Blue-Point®)

Set Contains:

BLPCWS711B

|       | Stock No. | E        |   |
|-------|-----------|----------|---|
| 1/4   | BLPCW8B   | 4-49/64  |   |
| 5/16  | BLPCW10B  | 5-1/2    |   |
| 3/8   | BLPCW12B  | 6-3/16   | • |
| 7/16  | BLPCW14B  | 6-57/64  | • |
| 1/2   | BLPCW16B  | 7-49/64  | • |
| 9/16  | BLPCW18B  | 8-13/64  | • |
| 5/8   | BLPCW20B  | 9-1/16   | • |
| 11/16 | BLPCW22B  | 9-49/64  | • |
| 3/4   | BLPCW24B  | 10-15/32 | • |
| 13/16 | BLPCW26B  | 11-3/16  | • |
| 7/8   | BLPCW28B  | 11-59/64 | • |
| 15/16 | BLPCW30B  | 12-5/8   | • |
| 1     | BLPCW32B  | 13-21/64 | • |

Set includes storage tray.

## FLANK DRIVE® OFFSET BOX

## Standard Handle, 10° Offset, mm

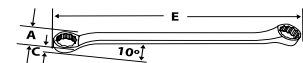
Set Contains:

XBM605A

|       |           |          | A         | C         | E   |   |
|-------|-----------|----------|-----------|-----------|-----|---|
| 8-10  | —         | XBM810A  | 12.3-15   | 6.7-7.7   | 185 |   |
| 10-11 | —         | XBM1011A | 15-16.4   | 7.7-8.3   | 202 | • |
| 10-12 | —         | XBM1012A | 15-17.7   | 7.7-8.8   | 208 |   |
| 11-13 | —         | XBM1113A | 16.4-19.1 | 8.3-9.3   | 219 |   |
| 12-14 | XBM1214SA | XBM1214A | 17.7-20.4 | 8.8-9.7   | 230 | • |
| 13-15 | XBM1315SA | XBM1315A | 19.1-21.8 | 9.3-10.2  | 241 | • |
| 14-17 | —         | XBM1417A | 20.4-24.5 | 9.8-11.4  | 248 |   |
| 16-18 | —         | XBM1618A | 23.1-25.9 | 10.9-11.9 | 275 | • |
| 17-19 | —         | XBM1719A | 24.5-27.2 | 11.4-12.3 | 286 | • |
| 18-21 | —         | XBM1821A | 25.9-29.9 | 11.9-13.3 | 303 |   |
| 22-24 | —         | XBM2224A | 31.3-34   | 13.7-14.7 | 342 |   |
| 27-30 | —         | XBM2730A | 38.1-42.2 | 16-17.3   | 404 |   |

ASME® B107.100

Set includes storage tray.



XBM605A



**WARNING**



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

# FLANK DRIVE® OFFSET BOX






**XB605A**

**Standard Handle,  
10° Offset, inches**

Set  
Contains:

*XB605A*

|  |  | A               | C           | E        |  |
|---|---|-----------------|-------------|----------|---|
| 3/8-7/16  | <b>XB1214A</b>  | 9/16-21/32      | 5/16-11/32  | 7-19/32  | •   |
| 7/16-1/2  | <b>XB1416A</b>  | 21/32-3/4       | 5/16-11/32  | 7-15/16  | •   |
| 1/2-9/16  | <b>XB1618A</b>  | 3/4-13/16       | 11/32-3/8   | 8-11/16  | •   |
| 9/16-5/8  | <b>XB1820A</b>  | 13/16-29/32     | 13/32-7/16  | 9-13/32  | •   |
| 5/8-11/16   | <b>XB2022A</b>  | 29/32-1         | 7/16-15/32  | 10-5/32  | •   |
| 11/16-3/4   | <b>XB2224A</b>  | 1-1-1/16        | 15/32-1/2   | 10-15/16 | •   |
| 3/4-13/16   | <b>XB2426A</b>  | 1-1/16-1-5/32   | 1/2-17/32   | 11-21/32 | •   |
| 7/8-15/16   | <b>XB2830A</b>  | 1-1/4-1-11/32   | 17/32-9/16  | 13-1/8   | •   |
| 15/16-1   | <b>XB3032A</b>  | 1-11/32-1-13/32 | 9/16-19/32  | 13-7/8   | •   |
| 1-1-1/16  | <b>XB3234A</b>  | 1-13/32-1-1/2   | 19/32-5/8   | 14-19/32 | •   |
| 1-1/16-1-1/4  | <b>XB3440A</b>  | 1-1/2-1-3/4     | 5/8-23/32   | 16-3/32  | •   |
| 1-1/8-1-3/16  | <b>XB3638A</b>  | 1-9/32-1-21/32  | 21/32-11/16 | 16-3/32  | •   |
| 1-1/4-1-5/16  | <b>XB4042A</b>  | 1-3/4-1-27/32   | 23/32-3/4   | 17-19/32 | •   |
| 1-3/8-1-7/16  | <b>XB4446A</b>  | 1-31/32-2-1/16  | 3/4-25/32   | 19-1/8   | •   |
| 1-1/2-1-5/8   | <b>XB4852A</b>  | 2-3/32-2-9/32   | 13/16-7/8   | 20-15/16 | •   |

ASME® B107.100

Set includes storage tray.






**XS609A**

**Short Handle, 10° Offset, inches**

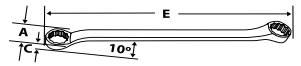
Set  
Contains:

*XS609A*

|  |  | A            | C           | E       |  |
|---|---|--------------|-------------|---------|---|
| 3/16-7/32   | <b>XS67A</b>  | 5/16-11/32   | 7/32-7/32   | 3-27/32 | •   |
| 1/4-5/16  | <b>XS810A</b>   | 13/32-15/32  | 1/4-9/32    | 4-1/4   | •   |
| 5/16-3/8  | <b>XS1012A</b>  | 15/32-9/16   | 9/32-5/16   | 4-9/16  | •   |
| 3/8-7/16  | <b>XS1214A</b>  | 9/16-21/32   | 5/16-11/32  | 4-29/32 | •   |
| 7/16-1/2  | <b>XS1416A</b>  | 21/32-3/4    | 11/32-11/32 | 5-3/16  | •   |
| 1/2-9/16  | <b>XS1618A</b>  | 3/4-13/16    | 3/8-3/8     | 5-17/32 | •   |
| 9/16-5/8  | <b>XS1820A</b>  | 13/16-29/32  | 13/32-7/16  | 5-7/8   | •   |
| 5/8-3/4   | <b>XS2024A</b>  | 29/32-1-1/16 | 7/16-1/2    | 6-3/8   | •   |
| 11/16-13/16   | <b>XS2226A</b>  | 1-1-5/32     | 15/32-17/32 | 6-23/32 | •   |

ASME® B107.100

Set includes storage tray.






**XSM608A**

**Short Handle,  
10° Offset, mm**

Set  
Contains:

*XSM608A*

|  |  | A         | C         | E   |  |
|---|---|-----------|-----------|-----|---|
| 6-7   | <b>XSM67A</b>   | 9.6-10.9  | 5.7-6.2   | 86  | •   |
| 8-9   | <b>XSM89A</b>   | 12.3-13.7 | 6.7-7.2   | 103 | •   |
| 8-10  | <b>XSM810</b>   | 12.3-15   | 6.7-7.7   | 107 | •   |
| 9-10  | <b>XSM910A</b>  | 13.7-15   | 7.2-7.7   | 112 | •   |
| 11-12   | <b>XSM1112A</b>   | 16.4-17.7 | 8.3-8.8   | 128 | •   |
| 13-14   | <b>XSM1314A</b>   | 19.1-20.4 | 9.3-9.8   | 146 | •   |
| 15-16   | <b>XSM1516A</b>   | 21.8-23.1 | 10.2-10.9 | 163 | •   |
| 17-19   | <b>XSM1719A</b>   | 24.5-27.2 | 11.4-12.3 | 185 | •   |
| 18-20   | <b>XSM1820A</b>   | 25.9-28.6 | 11.9-12.8 | 194 | •   |

ASME® B107.100

Set includes storage tray.






**XID604KA**

**Midget, 10° Offset, inches**

Set  
Contains:

*XID604KA*

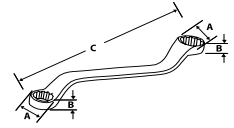
|  |  | A          | C         | E       |  |
|---|---|------------|-----------|---------|---|
| 3/16-13/64  | <b>XID1213A</b>   | 5/16-11/32 | 1/8-5/32  | 2-13/16 | •   |
| 7/32-15/64  | <b>XID1415A</b>   | 3/8-3/8    | 5/32-5/32 | 3-1/16  | •   |
| 1/4-9/32  | <b>XID1618A</b>   | 13/32-7/16 | 5/32-3/16 | 3-13/32 | •   |
| 5/16-11/32  | <b>XID2022A</b>   | 15/32-1/2  | 3/16-7/32 | 3-31/32 | •   |

ASME® B107.100

Set includes storage bag.

# FLANK DRIVE® OFFSET BOX

- Heads of XO, XOM and XSO Series are deeply offset at 60° to the handles for improved access to recessed fasteners
- Wrenches feature the 12-point Flank Drive® configuration for strength and turning power



XOM605



XO605

## Standard Handle, Deep 60° Offset, mm

Set Contains:

XOM605

| mm    | 12       | A         | B       | C     | 12 |
|-------|----------|-----------|---------|-------|----|
| 8-10  | XOM810   | 11.7-14.2 | 6.9-7.3 | 178.1 |    |
| 9-10  | XOM910   | 14.2-16.3 | 7.6     | 193.0 |    |
| 10-11 | XOM1011  | 15-16.3   | 7.6     | 193.0 | •  |
| 12-14 | XOM1214  | 15-20.3   | 9.0     | 210.0 | •  |
| 13-14 | XOM1314  | 18.8-21.2 | 8.9     | 223.3 |    |
| 13-15 | XOM1315  | 16.3-21.2 | 8.9     | 223.0 | •  |
| 15-16 | XOM1516  | 23.0-25.2 | 10.8    | 252.7 |    |
| 16-18 | XOM1618  | 17.7-25.4 | 10.8    | 253.0 | •  |
| 17-19 | XOM1719  | 17.7-27.4 | 11.1    | 260.0 | •  |
| 18-20 | XOM1820A | 32.5-33.3 | 13.8    | 330.0 |    |
| 20-21 | XOM2021  | 32.5-33.3 | 13.7    | 329.6 |    |
| 22-24 | XOM2224  | 31.9-34.1 | 13.7    | 329.6 |    |

ASME® B107.100

Set includes storage tray.

## Standard Handle, Deep 60° Offset, inches

Set Contains:

XO605

| in          | 12     | A              | B        | C        | 12 |
|-------------|--------|----------------|----------|----------|----|
| 1/4-5/16    | XO810  | 25/64-15/32    | 1/4-9/32 | 6-27/64  |    |
| 5/16-3/8    | XO1012 | 15/32-9/16     | 9/32     | 7        |    |
| 3/8-7/16    | XO1214 | 9/16-5/8       | 5/16     | 7-19/32  | •  |
| 1/2-9/16    | XO1618 | 23/32-13/16    | 11/32    | 8-25/32  | •  |
| 9/16-5/8    | XO1820 | 13/16-29/32    | 13/32    | 9-3/8    | •  |
| 5/8-11/16   | XO2022 | 29/32-1        | 13/32    | 9-15/16  |    |
| 5/8-3/4     | XO2024 | 29/32-1-3/32   | 7/16     | 10-1/4   |    |
| 11/16-13/16 | XO2226 | 1-1-5/32       | 15/32    | 10-27/32 | •  |
| 3/4-7/8     | XO2428 | 1-3/32-1-1/4   | 1/2      | 11-13/32 | •  |
| 7/8-15/16   | XO2830 | 1-1/4-1-11/32  | 17/32    | 12-31/32 |    |
| 15/16-1     | XO3032 | 1-11/32-1-7/16 | 9/16     | 13-15/16 |    |

ASME®/ANSI® B107.6

Set includes storage tray.

## Short Handle, Deep 60° Offset, inches

| in        | Stock No. | A          | B         | C       |
|-----------|-----------|------------|-----------|---------|
| 1/4-9/32  | XSO89     | 13/32-7/16 | 3/16-7/32 | 3-7/8   |
| 1/4-5/16  | XSO810A   | 3/8-7/16   | 3/16-7/32 | 4-5/32  |
| 3/8-7/16  | XSO1214A  | 17/32-5/8  | 1/4-9/32  | 4-13/16 |
| 5/8-11/16 | XSO2022   | 29/32-1    | 3/8-7/16  | 6-5/16  |
| 5/8-3/4   | XSO2024A  | 7/8-1-1/16 | 3/16-7/32 | 6-1/2   |

ASME®/ANSI® B107.100



XSO1214A

# FLANK DRIVE® HIGH-PERFORMANCE OFFSET BOX

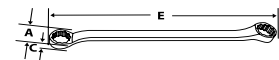
## Standard Handle, 0° Offset, mm

Set Contains:

XDHF605

| mm    | 12       | A         | C         | E     | 12 |
|-------|----------|-----------|-----------|-------|----|
| 6-7   | XDHF67   | 9.1-10.4  | 5.3-5.8   | 211.5 |    |
| 8-9   | XDHF89   | 11.6-13.0 | 5.8-6.2   | 226.1 |    |
| 8-10  | XDHF810  | 11.6-14.4 | 6.2-7.6   | 232.7 |    |
| 10-11 | XDHF1011 | 14.4-15.6 | 7.6-8.5   | 253.7 | •  |
| 10-12 | XDHF1012 | 14.4-17.1 | 8.5-9.0   | 272.2 |    |
| 12-13 | XDHF1213 | 17.1-18.7 | 9.0-9.0   | 286.2 | •  |
| 12-14 | XDHF1214 | 17.1-20.1 | 9.0-10.2  | 298.4 |    |
| 13-14 | XDHF1314 | 18.7-20.1 | 9.0-9.7   | 299.2 |    |
| 13-15 | XDHF1315 | 20.1-21.5 | 9.8-10.9  | 323.5 |    |
| 14-15 | XDHF1415 | 20.1-21.5 | 9.8-10.9  | 323.5 | •  |
| 14-17 | XDHF1417 | 20.1-23.7 | 9.8-11.3  | 345.0 |    |
| 15-16 | XDHF1516 | 21.5-22.6 | 10.9-10.9 | 347.5 | •  |
| 16-18 | XDHF1618 | 23.8-26.3 | 11.3-12.1 | 372.1 |    |
| 17-19 | XDHF1719 | 23.8-26.3 | 11.3-12.1 | 372.1 | •  |
| 18-20 | XDHF1820 | 25.0-27.3 | 12.1-13.6 | 395.7 | •  |
| 21-22 | XDHF2122 | 28.8-30.6 | 13.7-14.6 | 421.2 |    |
| 22-24 | XDHF2224 | 30.6-33.1 | 14.0-14.9 | 445.2 |    |

Set includes storage tray.



XDHF606



XDHF605

## Standard Handle, 0° Offset, inches

Set Contains:

XDHF605

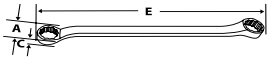
| in          | 12       | A            | C           | E       | 12 |
|-------------|----------|--------------|-------------|---------|----|
| 1/4-5/16    | XDHF810  | 13/32-15/32  | 7/32-1/4    | 8-5/16  | •  |
| 3/8-7/16    | XDHF1214 | 17/32-5/8    | 5/16-11/32  | 10-1/16 | •  |
| 1/2-9/16    | XDHF1618 | 23/32-13/16  | 11/32-13/32 | 11-3/4  | •  |
| 5/8-3/4     | XDHF2024 | 7/8-1-1/32   | 7/16-15/32  | 13-5/8  | •  |
| 11/16-13/16 | XDHF2226 | 31/32-1-5/32 | 15/32-17/32 | 15-5/8  | •  |

Set includes storage tray.



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® HIGH-PERFORMANCE OFFSET BOX



## Short Handle, 0° Offset, mm



**XDHSFM1214**

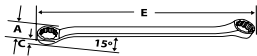
|       |                   | A         | C         | E     |
|-------|-------------------|-----------|-----------|-------|
| 8-10  | <b>XDHSFM810</b>  | 12.1-14.9 | 6.2-7.6   | 162.9 |
| 10-12 | <b>XDHSFM1012</b> | 14.4-17.1 | 7.6-9.0   | 190.5 |
| 12-14 | <b>XDHSFM1214</b> | 17.1-20.1 | 8.5-10.2  | 208.8 |
| 17-19 | <b>XDHSFM1719</b> | 23.8-26.3 | 11.3-12.1 | 260.3 |

## Short Handle, 15° Offset, inches



**XDHS1012**

|          |                 | A          | C        | E |
|----------|-----------------|------------|----------|---|
| 5/16-3/8 | <b>XDHS1012</b> | 31/64-9/16 | 1/4-5/16 | 7 |



## Standard Handle, 15° Offset, mm

Set Contains: **XDHM606**



**XDHM606**

|       |                 | A         | C         | E     |   |
|-------|-----------------|-----------|-----------|-------|---|
| 8-9   | <b>XDHM89</b>   | 11.6-13.0 | 5.8-6.2   | 219.2 | • |
| 8-10  | <b>XDHM810</b>  | 11.6-14.4 | 6.2-7.6   | 225.6 |   |
| 10-11 | <b>XDHM1011</b> | 14.4-15.6 | 7.6-8.5   | 246.3 | • |
| 10-12 | <b>XDHM1012</b> | 14.4-17.1 | 7.6-9.0   | 264.0 |   |
| 12-13 | <b>XDHM1213</b> | 17.1-18.7 | 9.0-9.0   | 277.6 | • |
| 12-14 | <b>XDHM1214</b> | 17.1-20.1 | 9.0-10.2  | 289.6 |   |
| 14-15 | <b>XDHM1415</b> | 20.1-21.5 | 9.8-10.9  | 313.1 | • |
| 14-17 | <b>XDHM1417</b> | 20.1-23.7 | 9.8-11.3  | 334.7 |   |
| 15-16 | <b>XDHM1516</b> | 21.5-22.6 | 10.9-10.9 | 334.8 |   |
| 17-19 | <b>XDHM1719</b> | 23.7-26.3 | 11.3-12.1 | 360.1 | • |
| 18-20 | <b>XDHM1820</b> | 24.9-27.3 | 12.1-13.6 | 384.0 | • |

Set includes storage tray.

## Standard Handle, 15° Offset, inches

Set Contains: **XDH605**



**XDH605**

|              |                 |                  | A               | C           | E       |   |
|--------------|-----------------|------------------|-----------------|-------------|---------|---|
| 7/32-1/4     | <b>XDH78A</b>   | <b>GXDH78A</b>   | 11/32-3/8       | 13/64-15/64 | 7-15/64 |   |
| 1/4-5/16     | <b>XDH810B</b>  | <b>GXDH810B</b>  | 3/8-29/64       | 1/4-1/4     | 8-3/64  | • |
| 5/16-3/8     | <b>XDH1012B</b> | <b>GXDH1012B</b> | 29/64-35/64     | 1/4-19/64   | 8-7/8   |   |
| 3/8-7/16     | <b>XDH1214A</b> | <b>GXDH1214A</b> | 35/64-5/8       | 19/64-11/32 | 9-11/16 | • |
| 7/16-1/2     | <b>XDH1416A</b> | —                | 11/32-3/4       | 11/32-23/64 | 10-7/16 |   |
| 1/2-9/16     | <b>XDH1618A</b> | <b>GXDH1618A</b> | 23/32-13/16     | 23/64-13/32 | 11-7/16 | • |
| 9/16-5/8     | <b>XDH1820A</b> | —                | 13/16-29/32     | 13/32-7/16  | 12-3/8  |   |
| 5/8-3/4      | <b>XDH2024A</b> | —                | 57/64-1-3/64    | 7/16-31/64  | 13-9/32 | • |
| 11/16-3/4    | <b>XDH2224A</b> | —                | 31/32-1-1/32    | 15/32-3/4   | 14-7/32 |   |
| 11/16-13/16  | <b>XDH2226A</b> | —                | 63/64-1-9/64    | 31/64-17/32 | 15-5/32 | • |
| 3/4-7/8      | <b>XDH2428</b>  | —                | 1-3/64-1-1/64   | 31/64-37/64 | 15-3/4  |   |
| 25/32-7/8    | <b>XDH2528</b>  | —                | 1-5/64-1-13/64  | 35/64-37/64 | 16-5/64 |   |
| 15/16-1      | <b>XDH3032</b>  | —                | 1-5/16-1-25/64  | 37/64-39/64 | 15-1/2  |   |
| 1-1/16-1-1/4 | <b>XDH3440</b>  | —                | 1-31/64-1-47/64 | 5/8-23/32   | 18-1/4  |   |
| 1-1/4-1-5/16 | <b>XDH4042</b>  | —                | 1-47/64-1-13/16 | 23/32-47/64 | 19-1/4  |   |
| 1-1/4-1-3/8  | <b>XDH4044</b>  | —                | 1-47/64-1-15/16 | 23/32-49/64 | 20-1/4  |   |
| 1-1/4-1-7/16 | <b>XDH4046</b>  | —                | 1-47/64-2       | 23/32-51/64 | 21      |   |
| 1-7/16-1-1/2 | <b>XDH4648</b>  | —                | 2-2-1/16        | 51/64-13/16 | 22      |   |

Aerospace Spec. AS954E

Set includes storage tray.

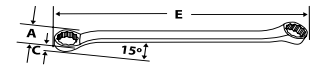
# SPLINE OFFSET BOX

Snap-on® spline wrenching tools have been developed to service high-tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener

or to the tool. Chrome tools comply with Military Spec. MS-33797 and MIL-W-8982. The unique spline wrenching configuration can be used on ordinary 6- and 12-point fasteners with an advantage similar to the Snap-on® Flank Drive® wrenching system.



XDES1618A



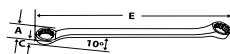
## Box/Spline, 15° Offset, inches

|         |             | Stock No. | A             | C           | E       |
|---------|-------------|-----------|---------------|-------------|---------|
| #7-#9   | 7/32-9/32   | XDES79A   | 11/32-7/16    | 11/64-13/64 | 7-1/4   |
| #8-#10  | 1/4-5/16    | XDES810A  | 3/8-15/32     | 3/16-7/32   | 8-1/16  |
| #12-#14 | 3/8-7/16    | XDES1214A | 35/64-41/64   | 5/16-11/32  | 9-3/4   |
| #16-#18 | 1/2-9/16    | XDES1618A | 3/4-13/16     | 3/8-3/8     | 11-7/16 |
| #18-#20 | 9/16-5/8    | XDES1820A | 13/16-57/64   | 25/64-13/32 | 12-3/8  |
| #22-#24 | 11/16-3/4   | XDES2224A | 31/32-1-5/64  | 0.438-0.525 | 14-1/4  |
| #26-#30 | 13/16-15/16 | XDES2630A | 1-5/32-1-5/16 | 1/2-9/16    | 16-3/16 |
| #28-#32 | 7/8-1       | XDES2832A | 1-1/4-1-7/16  | 17/32-37/64 | 17      |

# TORX® BOX



XLE605



## TORX®/Long Handle, 10° Offset

| #       |          | A           | C           | E       |   |
|---------|----------|-------------|-------------|---------|---|
| E5-E6   | XLE56    | 9/32-5/16   | 5/32-3/16   | 6-13/32 | • |
| E7-E8   | XLE78    | 11/32-3/8   | 7/32-7/32   | 7-7/32  | • |
| E10-E12 | XLE1012A | 15/32-17/32 | 1/4-5/16    | 8-7/8   | • |
| E14-E16 | XLE1416  | 5/8-23/32   | 11/32-11/32 | 10-7/16 | • |
| E18-E20 | XLE1820  | 13/16-7/8   | 13/32-7/16  | 12-3/8  | • |

ASME® B107.100

Set includes storage tray.



ETX705

## TORX®/Standard Handle, 0° Offset

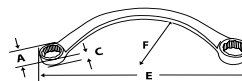
| #       |         | A           | C           | E       |   |
|---------|---------|-------------|-------------|---------|---|
| E5-E6   | ETX0506 | 17/64-5/16  | 5/32-11/64  | 4-41/64 | • |
| E7-E8   | ETX0708 | 21/64-3/8   | 7/32-15/64  | 5-15/32 | • |
| E10-E12 | ETX1012 | 29/64-35/64 | 1/4-19/64   | 6-13/32 | • |
| E14-E16 | ETX1416 | 5/8-23/32   | 11/32-23/64 | 7-1/2   | • |
| E18-E20 | ETX1820 | 13/16-57/64 | 13/32-7/16  | 8-37/64 | • |

Set includes storage tray.

# FLANK DRIVE® SPECIALTY BOX



CXM605



## Half-Moon, mm

| mm    | 12      | A     | C     | E   | F  | 12 |
|-------|---------|-------|-------|-----|----|----|
| 10-12 | CXM1012 | 15-17 | 6-7   | 128 | 48 | •  |
| 11-13 | CXM1113 | 16-18 | 8-8   | 144 | 57 | •  |
| 14-17 | CXM1417 | 20-23 | 9-9   | 166 | 65 | •  |
| 15-19 | CXM1519 | 22-27 | 10-11 | 198 | 78 | •  |
| 18-21 | CXM1821 | 27-31 | 11-13 | 224 | 86 | •  |

ASME® B107.100

Set includes storage tray.



CX605

## Half-Moon, inches

|             | 12     | A             | C           | E     | F      | 12 |
|-------------|--------|---------------|-------------|-------|--------|----|
| 5/16-3/8    | CX1012 | 15/32-9/16    | 3/16-5/16   | 4-5/8 | 2-1/16 | •  |
| 7/16-1/2    | CX1416 | 5/8-23/32     | 5/16-5/16   | 5     | 2-7/32 | •  |
| 9/16-5/8    | CX1820 | 13/16-7/8     | 11/32-3/8   | 6-1/2 | 2-9/16 | •  |
| 5/8-3/4     | CX2024 | 7/8-1-7/32    | 13/32-7/16  | 7-3/4 | 3-1/16 | •  |
| 11/16-13/16 | CX2226 | 31/32-1-9/32  | 13/32-15/32 | 8-1/2 | 3-1/2  | •  |
| 7/8-15/16   | CX2830 | 1-1/4-1-11/32 | 9/16-9/16   | 10    | 4-1/16 | •  |

ASME® B107.100

Set includes storage tray.

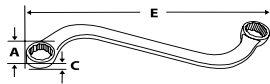


**WARNING**



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® SPECIALTY BOX



SBXM605

## S-Shaped, mm

Set Contains: **SBXM605**

| mm    | 12              | A     | C     | E   | 12 |
|-------|-----------------|-------|-------|-----|----|
| 10-12 | <b>SBXM1012</b> | 14-18 | 6-8   | 140 | •  |
| 11-13 | <b>SBXM1113</b> | 16-19 | 7-8   | 155 | •  |
| 14-15 | <b>SBXM1415</b> | 21-22 | 9-9   | 190 | •  |
| 16-18 | <b>SBXM1618</b> | 24-27 | 10-11 | 173 | •  |
| 17-19 | <b>SBXM1719</b> | 25-28 | 10-12 | 240 | •  |

ASME® B107.100

Set includes storage tray.



SBX605

## S-Shaped, inches

Set Contains: **SBX605**

|           | 12             | A             | C           | E      | 12 |
|-----------|----------------|---------------|-------------|--------|----|
| 5/16-3/8  | <b>SBX1012</b> | 15/32-9/16    | 9/16-7/32   | 3-3/4  | •  |
| 7/16-1/2  | <b>SBX1416</b> | 21/32-3/4     | 9/32-5/16   | 5-5/16 | •  |
| 9/16-5/8  | <b>SBX1820</b> | 27/32-15/16   | 11/32-11/32 | 6-7/8  | •  |
| 11/16-3/4 | <b>SBX2224</b> | 1-1/32-1-1/8  | 11/32-11/32 | 8-7/16 | •  |
| 13/16-7/8 | <b>SBX2628</b> | 1-7/32-1-5/16 | 17/32-9/16  | 10     | •  |

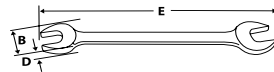
ASME® B107.100

Set includes storage tray.

# OPEN END



VOM705



VO806B

## Standard, mm

Set Contains: **VOM705**

| mm    | Stock No.       | B     | D     | E   |   |
|-------|-----------------|-------|-------|-----|---|
| 6-7   | <b>VOM67B</b>   | 13-15 | 4-4   | 97  |   |
| 7-8   | <b>VOM78B</b>   | 15-17 | 4-4   | 106 |   |
| 8-9   | <b>VOM89B</b>   | 17-20 | 4-5   | 119 |   |
| 8-10  | <b>VOM810B</b>  | 17-21 | 4-5   | 121 |   |
| 10-11 | <b>VOM1011B</b> | 21-23 | 5-6   | 136 | • |
| 11-13 | <b>VOM1113B</b> | 23-27 | 6-6   | 151 |   |
| 12-13 | <b>VOM1213B</b> | 25-27 | 6-6   | 157 | • |
| 12-14 | <b>VOM1214B</b> | 25-29 | 6-7   | 162 |   |
| 14-15 | <b>VOM1415B</b> | 29-31 | 7-7   | 178 | • |
| 16-18 | <b>VOM1618B</b> | 33-37 | 7-8   | 205 | • |
| 17-19 | <b>VOM1719B</b> | 35-38 | 8-9   | 216 | • |
| 19-22 | <b>VOM1922B</b> | 39-46 | 9-10  | 245 |   |
| 21-24 | <b>VOM2124B</b> | 43-49 | 9-10  | 267 |   |
| 22-24 | <b>VOM2224B</b> | 46-49 | 10-10 | 273 |   |
| 27-30 | <b>VOM2730B</b> | 55-61 | 11-12 | 338 |   |
| 30-32 | <b>VOM3032B</b> | 61-65 | 12-12 | 368 |   |

ASME®/ANSI® B107.100

Set includes storage tray.

## Standard, inches

Set Contains: **VO820K\***  
**VO806B\*\***

|              | Stock No.      | B               | D           | E        |   |   |
|--------------|----------------|-----------------|-------------|----------|---|---|
| 3/16-1/4     | <b>VO68</b>    | 13/32           | 9/64        | 3-13/32  |   |   |
| 1/4-5/16     | <b>VO810B</b>  | 17/32-21/32     | 5/32-5/32   | 4-1/16   | • | • |
| 5/16-3/8     | <b>VO1012B</b> | 21/32-25/32     | 5/32-3/16   | 4-21/32  | • |   |
| 3/8-7/16     | <b>VO1214B</b> | 25/32-29/32     | 3/16-7/32   | 5-5/16   | • | • |
| 7/16-1/2     | <b>VO1416B</b> | 29/32-1-1/16    | 7/32-1/4    | 5-15/16  | • |   |
| 1/2-9/16     | <b>VO1618B</b> | 1-1/16-1-5/32   | 1/4-9/32    | 6-19/32  | • | • |
| 9/16-5/8     | <b>VO1820B</b> | 1-5/32-1-5/16   | 9/32-9/32   | 7-9/32   | • |   |
| 5/8-11/16    | <b>VO2022B</b> | 1-5/16-1-13/32  | 9/32-5/16   | 7-15/16  | • | • |
| 5/8-3/4      | <b>VO2024B</b> | 1-5/16-1-9/16   | 9/32-11/32  | 8-9/32   | • |   |
| 11/16-3/4    | <b>VO2224B</b> | 1-13/32-1-9/16  | 5/16-11/32  | 8-5/8    | • |   |
| 3/4-13/16    | <b>VO2426B</b> | 1-9/16-1-21/32  | 11/32-3/8   | 9-11/32  | • | • |
| 3/4-7/8      | <b>VO2428B</b> | 1-9/16-1-13/16  | 11/32-3/8   | 9-21/32  | • |   |
| 13/16-7/8    | <b>VO2628B</b> | 1-21/32-1-13/16 | 3/8-3/8     | 10-1/32  | • |   |
| 7/8-15/16    | <b>VO2830B</b> | 1-13/16-1-29/32 | 3/8-13/32   | 10-3/4   | • | • |
| 15/16-1      | <b>VO3032B</b> | 1-29/32-2-1/32  | 13/32-13/32 | 11-15/32 | • |   |
| 1-1-1/16     | <b>VO3234B</b> | 2-1/32-2-5/32   | 13/32-7/16  | 12-7/32  | • |   |
| 1-1/16-1-1/4 | <b>VO3440B</b> | 2-5/32-2-17/32  | 7/16-1/2    | 12-15/16 | • |   |
| 1-1/8-1-3/16 | <b>VO3638B</b> | 2-5/16-2-13/32  | 7/16-15/32  | 13-23/32 | • |   |
| 1-1/4-1-5/16 | <b>VO4042B</b> | 2-17/32-2-21/32 | 1/2-1/2     | 15-1/4   | • |   |
| 1-3/8-1-7/16 | <b>VO4446B</b> | 2-13/16-2-29/32 | 17/32-17/32 | 16-7/8   | • |   |
| 1-1/2-1-5/8  | <b>VO4852B</b> | 3-1/16-3-5/16   | 9/16-19/32  | 18-29/32 | • |   |


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\*Set includes storage bag.

\*\*Set includes storage tray.

**Low Torque/Slimline, 15° Offset, mm**

Set Contains: **LTAM811**

|  mm | Stock No. | B     | D | E   |   |
|--|-----------|-------|---|-----|---|
| 6-7  | LTAM67    | 13-15 | 3 | 165 | • |
| 8-10   | LTAM810   | 17-21 | 3 | 165 | • |
| 10-11  | LTAM1011  | 21-23 | 3 | 165 | • |
| 12-14  | LTAM1214  | 25-29 | 4 | 241 | • |
| 13-15  | LTAM1315  | 27-31 | 4 | 241 | • |
| 16-18  | LTAM1618  | 33-37 | 4 | 241 | • |
| 17-19  | LTAM1719  | 35-39 | 4 | 241 | • |
| 19-22  | LTAM1922  | 39-45 | 4 | 241 | • |
| 21-24  | LTAM2124  | 43-49 | 4 | 241 | • |
| 27-30  | LTAM2730  | 55-61 | 6 | 311 | • |
| 32-36  | LTAM3236  | 65-73 | 6 | 311 | • |

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Set includes storage bag.




**LTAM811**

**Low Torque/Slimline, 15° Offset, inches**

Set Contains: **LTA812**

**LTA805K**

|  | Stock No. | B               | D    | E      |   |   |
|---|-----------|-----------------|------|--------|---|---|
| 3/8-7/16  | LTA1214   | 25/32-29/32     | 3/32 | 9-1/2  | • |   |
| 7/16-1/2  | LTA1416   | 29/32-1-1/32    | 5/32 | 9-1/2  | • | • |
| 1/2-9/16  | LTA1618   | 1-1/32-1-5/32   | 5/32 | 9-1/2  | • | • |
| 5/8-11/16   | LTA2022   | 1-9/32-1-13/32  | 5/32 | 9-1/2  | • | • |
| 3/4-13/16   | LTA2426   | 1-17/32-1-11/16 | 5/32 | 9-1/2  | • | • |
| 3/4-7/8   | LTA2428   | 1-17/32-1-25/32 | 5/32 | 9-1/2  | • | • |
| 15/16-1   | LTA3032   | 1-29/32-2-1/32  | 5/32 | 9-1/2  | • | • |
| 1-1/16-1-1/8  | LTA3436   | 2-5/32-2-9/32   | 1/4  | 12-1/4 | • |   |
| 1-1/4-1-5/16  | LTA4042   | 2-17/32-2-21/32 | 1/4  | 12-1/4 | • |   |
| 1-3/8-1-7/16  | LTA4446   | 2-25/32-2-29/32 | 1/4  | 12-1/4 | • |   |
| 1-1/2-1-5/8   | LTA4852   | 3-1/16-3-9/32   | 9/32 | 14-1/4 | • |   |
| 1-11/16-1-7/8   | LTA5460   | 3-13/32-3-17/32 | 9/32 | 14-1/4 | • |   |

ASME® B107.100

Sets includes storage bag.



**LTA805K**

**Ignition, 15°/60° Offset, mm**

Set Contains: **DSM810K**

| A   | B   | Stock No. | C     | D | E   |   |
|-----|-----|-----------|-------|---|-----|---|
| 3.2 | 5.5 | DSM3.25.5 | 8-11  | 3 | 74  | • |
| 5.5 | 3.2 | DSM5.53.2 | 11-8  | 3 | 83  | • |
| 4   | 5   | DSM45     | 9-11  | 3 | 77  | • |
| 5   | 4   | DSM54     | 11-9  | 3 | 81  | • |
| 6   | 7   | DSM67     | 12-14 | 3 | 85  | • |
| 7   | 6   | DSM76     | 14-12 | 3 | 89  | • |
| 8   | 9   | DSM89     | 15-17 | 3 | 93  | • |
| 9   | 8   | DSM98     | 17-15 | 3 | 97  | • |
| 10  | 11  | DSM1011   | 20-22 | 4 | 101 | • |
| 11  | 10  | DSM1110   | 22-20 | 4 | 105 | • |

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Set includes C1003A storage bag.



**DSM810K**

**Ignition, 15°/60° Offset, inches**

Set Contains: **DS809K**

**DS806AK**

| A     | B     | Stock No. | C           | D    | E       |   |   |
|-------|-------|-----------|-------------|------|---------|---|---|
| 1/8   | 1/8   | DS88A     | 5/16-5/16   | 1/8  | 2-29/32 | • |   |
| 5/32  | 5/32  | DS1010A   | 3/8-3/8     | 1/8  | 2-7/8   | • |   |
| 3/16  | 3/16  | DS1212A   | 13/32-13/32 | 1/8  | 3-1/8   | • |   |
| 15/64 | 1/4   | DS1516A   | 15/32-1/2   | 1/8  | 3-1/4   | • | • |
| 1/4   | 15/64 | DS1615A   | 1/2-15/32   | 1/8  | 3-13/32 | • | • |
| 9/32  | 5/16  | DS1820A   | 9/16-19/32  | 1/8  | 3-1/2   | • | • |
| 5/16  | 9/32  | DS2018A   | 19/32-9/16  | 1/8  | 3-21/32 | • | • |
| 11/32 | 3/8   | DS2224A   | 21/32-23/32 | 5/32 | 3-3/4   | • | • |
| 3/8   | 11/32 | DS2422A   | 23/32-21/32 | 5/32 | 3-3/4   | • | • |

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Sets include storage bag.

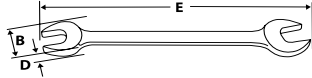


**DS809K**



- Use only moderate force on slimline wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## OPEN END



VSM807B

### Four-Way Angle Head, mm

- Angle head wrenches are offset at 30° and 60° angles to the handle
- Both ends are the same size to permit use of one wrench in four positions

| mm | Stock No. | Flank Drive® Plus Stock No. | B  | D | E   | Set Contains: |          |           | Flank Drive® Plus |
|----|-----------|-----------------------------|----|---|-----|---------------|----------|-----------|-------------------|
|    |           |                             |    |   |     | VSM814**      | VSM807B* | SVSM807A* |                   |
| 10 | VSM5210B  | SVSM10A                     | 20 | 6 | 127 | •             | •        | •         |                   |
| 11 | VSM5211B  | SVSM11A                     | 22 | 6 | 137 | •             | •        | •         |                   |
| 12 | VSM5212B  | SVSM12A                     | 24 | 6 | 145 | •             | •        | •         |                   |
| 13 | VSM5213B  | SVSM13A                     | 26 | 6 | 154 | •             | •        | •         |                   |
| 14 | VSM5214B  | SVSM14A                     | 28 | 6 | 164 | •             | •        | •         |                   |
| 15 | VSM5215B  | SVSM15A                     | 30 | 7 | 173 | •             | •        | •         |                   |
| 16 | VSM5216B  | SVSM16A                     | 31 | 7 | 181 | •             | •        | •         |                   |
| 17 | VSM5217B  | SVSM17A                     | 34 | 7 | 191 | •             | •        | •         |                   |
| 18 | VSM5218B  | SVSM18A                     | 36 | 7 | 200 | •             | •        | •         |                   |
| 19 | VSM5219B  | SVSM19A                     | 37 | 7 | 210 | •             | •        | •         |                   |
| 21 | VSM5221B  | SVSM21A                     | 41 | 8 | 228 | •             | •        | •         |                   |
| 22 | VSM5222B  | SVSM22A                     | 44 | 8 | 239 | •             | •        | •         |                   |
| 24 | VSM5224B  | SVSM24A                     | 47 | 8 | 254 | •             | •        | •         |                   |
| 27 | VSM5227B  | SVSM27A                     | 53 | 9 | 283 | •             | •        | •         |                   |

ASME® B107.100

\*Set includes storage tray.  
\*\*Set includes storage bag.



GVS24B



VS807B

### Four-Way Angle Head, inches

| Inches  | Stock No. | Industrial Stock No. | Flank Drive® Plus Stock No. | B       | D     | E        | Set Contains: |          |         | Flank Drive® Plus |
|---------|-----------|----------------------|-----------------------------|---------|-------|----------|---------------|----------|---------|-------------------|
|         |           |                      |                             |         |       |          | VS828A**      | VS814A** | VS807B* |                   |
| 1/4     | VS8B      | —                    | —                           | 17/32   | 3/16  | 3-11/16  | •             | •        | •       |                   |
| 5/16    | VS10B     | —                    | —                           | 21/32   | 3/16  | 4-1/4    | •             | •        | •       |                   |
| 11/32   | VS11B     | —                    | —                           | 23/32   | 7/32  | 4-17/32  | •             | •        | •       |                   |
| 3/8     | VS12B     | —                    | SVS12A                      | 25/32   | 7/32  | 4-27/32  | •             | •        | •       |                   |
| 7/16    | VS14B     | —                    | SVS14A                      | 7/8     | 7/32  | 5-13/32  | •             | •        | •       |                   |
| 1/2     | VS16B     | GVS16B               | SVS16A                      | 1       | 1/4   | 5-31/32  | •             | •        | •       |                   |
| 9/16    | VS18B     | GVS18B               | SVS18A                      | 1-1/8   | 1/4   | 6-9/16   | •             | •        | •       |                   |
| 5/8     | VS20B     | GVS20B               | SVS20A                      | 1-1/4   | 9/32  | 7-1/8    | •             | •        | •       |                   |
| 11/16   | VS22B     | GVS22B               | SVS22A                      | 1-3/8   | 9/32  | 7-11/16  | •             | •        | •       |                   |
| 3/4     | VS24B     | GVS24B               | SVS24A                      | 1-15/32 | 9/32  | 8-9/32   | •             | •        | •       |                   |
| 13/16   | VS26B     | GVS26B               | SVS26A                      | 1-19/32 | 5/16  | 8-27/32  | •             | •        | •       |                   |
| 7/8     | VS28B     | GVS28B               | SVS28A                      | 1-23/32 | 5/16  | 9-13/32  | •             | •        | •       |                   |
| 15/16   | VS30B     | GVS30B               | SVS30A                      | 1-27/32 | 11/32 | 10       | •             | •        | •       |                   |
| 1       | VS32B     | GVS32B               | SVS32A                      | 1-31/32 | 11/32 | 10-9/16  | •             | •        | •       |                   |
| 1-1/16  | VS34B     | —                    | SVS34A                      | 2-3/32  | 11/32 | 11-1/8   | •             | •        | •       |                   |
| 1-1/8   | VS36B     | —                    | SVS36A                      | 2-3/16  | 3/8   | 11-23/32 | •             | •        | •       |                   |
| 1-3/16  | VS38B     | —                    | SVS38A                      | 2-11/32 | 3/8   | 12-9/32  | •             | •        | •       |                   |
| 1-1/4   | VS40B     | GVS40B               | SVS40A                      | 2-7/16  | 13/32 | 12-7/8   | •             | •        | •       |                   |
| 1-5/16  | VS42B     | —                    | —                           | 2-9/16  | 13/32 | 13-7/16  | •             | •        | •       |                   |
| 1-3/8   | VS44B     | —                    | —                           | 1-3/8   | 13/32 | 14       | •             | •        | •       |                   |
| 1-7/16  | VS46B     | —                    | —                           | 2-27/32 | 7/16  | 14-19/32 | •             | •        | •       |                   |
| 1-1/2   | VS48B     | —                    | —                           | 2-15/16 | 7/16  | 15-5/32  | •             | •        | •       |                   |
| 1-5/8   | VS52B     | —                    | —                           | 3-7/32  | 15/32 | 16-5/16  | •             | •        | •       |                   |
| 1-11/16 | VS54B     | —                    | —                           | 3-11/32 | 1/2   | 16-7/8   | •             | •        | •       |                   |
| 1-3/4   | VS56B     | —                    | —                           | 3-15/32 | 1/2   | 17-7/16  | •             | •        | •       |                   |
| 1-13/16 | VS58B     | —                    | —                           | 3-19/32 | 1/2   | 18       | •             | •        | •       |                   |
| 1-7/8   | VS60B     | —                    | —                           | 3-23/32 | 17/32 | 18-19/32 | •             | •        | •       |                   |
| 2       | VS64B     | —                    | —                           | 3-31/32 | 9/16  | 19-3/4   | •             | •        | •       |                   |

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\*Set includes storage tray.  
\*\*Set includes storage bag.



**Aluminum (for AN fittings)**

- Securely tighten expensive AN fittings to reduce risk of damage in aircraft, marine and industrial applications, as well as race and show cars
- Machined from heat-treated aluminum to exacting tolerances
- Corner reliefs on open end prevent rounding the corners of the fitting
- Handle length is designed to apply appropriate torque without overtightening
- Wrenches are color coded and stamped for quick size identification
- All wrenches are .36" thick

| #      |         | Stock No.      | Color      | Overall Length, inches (mm) |   |
|--------|---------|----------------|------------|-----------------------------|---|
| No. 3  | 1/2     | <b>ANWR3A</b>  | Silver     | 4 (101.6)                   | • |
| No. 4  | 9/16    | <b>ANWR4A</b>  | Black      | 4-3/4 (120.7)               | • |
| No. 6  | 11/16   | <b>ANWR6A</b>  | Light Blue | 5-3/4 (146.1)               | • |
| No. 8  | 7/8     | <b>ANWR8A</b>  | Pink       | 5-3/4 (146.1)               | • |
| No. 10 | 1       | <b>ANWR10A</b> | Gold       | 7-1/8 (181.0)               | • |
| No. 12 | 1-1/4   | <b>ANWR12A</b> | Red        | 7-1/2 (190.5)               | • |
| No. 16 | 1-1/2   | <b>ANWR16A</b> | Brass      | 8-3/4 (222.3)               | • |
| No. 20 | 1-13/16 | <b>ANWR20A</b> | Dark Blue  | 9-1/4 (237.0)               | • |

Set includes heavy-gauge vinyl storage pouch.

Set Contains: **ANWR708A**



**OPEN END (Blue-Point®)**



**BDOEM1415**



**BDOE1820**

**Standard, mm (Blue-Point®)**

| mm    | Stock No.        | Length, mm |
|-------|------------------|------------|
| 10-11 | <b>BDOEM1011</b> | 145        |
| 12-13 | <b>BDOEM1213</b> | 165        |
| 14-15 | <b>BDOEM1415</b> | 185        |
| 16-17 | <b>BDOEM1617</b> | 185        |
| 18-19 | <b>BDOEM1819</b> | 227        |

**Standard, inches (Blue-Point®)**

|           | Stock No.       | Length, inches |
|-----------|-----------------|----------------|
| 5/16-3/8  | <b>BDOE1012</b> | 5-5/16         |
| 7/16-1/2  | <b>BDOE1416</b> | 6-1/2          |
| 9/16-5/8  | <b>BDOE1820</b> | 7-9/32         |
| 11/16-3/4 | <b>BDOE2224</b> | 8-15/16        |

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**FLANK DRIVE® FLARE NUT**

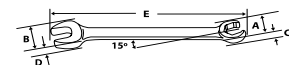
**Open End and Flare Nut, mm**

| mm | 6              | A  | B  | C  | D  | E   | 6 |
|----|----------------|----|----|----|----|-----|---|
| 8  | <b>RXSM8B</b>  | 17 | 17 | 7  | 7  | 135 |   |
| 9  | <b>RXSM9B</b>  | 18 | 19 | 7  | 7  | 144 |   |
| 10 | <b>RXSM10B</b> | 20 | 21 | 8  | 8  | 152 | • |
| 11 | <b>RXSM11B</b> | 21 | 23 | 9  | 9  | 162 | • |
| 12 | <b>RXSM12B</b> | 22 | 25 | 9  | 9  | 169 | • |
| 13 | <b>RXSM13B</b> | 24 | 27 | 9  | 9  | 178 | • |
| 14 | <b>RXSM14B</b> | 25 | 29 | 10 | 10 | 186 | • |
| 15 | <b>RXSM15B</b> | 26 | 31 | 10 | 10 | 194 |   |
| 16 | <b>RXSM16B</b> | 27 | 33 | 11 | 11 | 202 |   |
| 17 | <b>RXSM17B</b> | 29 | 35 | 11 | 11 | 211 |   |
| 18 | <b>RXSM18B</b> | 30 | 37 | 12 | 12 | 219 |   |
| 19 | <b>RXSM19B</b> | 32 | 39 | 12 | 12 | 228 |   |
| 20 | <b>RXSM20B</b> | 33 | 41 | 13 | 13 | 235 |   |

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Set includes storage tray.

Set Contains: **RXSM605B**

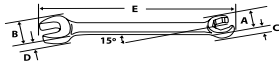


**RXSM605B**



- Use only moderate force on flare nut wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

## FLANK DRIVE® FLARE NUT



**RXS605B**

### Open End and Flare Nut, inches

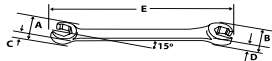
Set Contains:

**RXS605B**

|       |               |                | A      | B       | C     | D     | E       |   |
|-------|---------------|----------------|--------|---------|-------|-------|---------|---|
| 3/8   | <b>RXS12B</b> | —              | 3/4    | 25/32   | 5/16  | 5/16  | 5-27/32 | • |
| 7/16  | <b>RXS14B</b> | <b>RXS14BS</b> | 27/32  | 29/32   | 11/32 | 11/32 | 6-3/8   | • |
| 1/2   | <b>RXS16B</b> | —              | 29/32  | 1-1/16  | 3/8   | 3/8   | 6-7/8   | • |
| 9/16  | <b>RXS18B</b> | —              | 1      | 1-5/32  | 13/32 | 13/32 | 7-13/32 | • |
| 5/8   | <b>RXS20B</b> | —              | 1-3/32 | 1-5/16  | 7/16  | 7/16  | 7-15/16 | • |
| 11/16 | —             | <b>RXS22BS</b> | 1-5/32 | 1-13/32 | 15/32 | 15/32 | 8-15/32 |   |
| 3/4   | —             | <b>RXS24BS</b> | 1-1/4  | 1-9/16  | 1/2   | 1/2   | 9       |   |

ASME® B107.100

Set includes storage tray.



**RXFMS606B**

### Double End Flare Nut, mm

Set Contains:

**RXFMS606B**

|       |                   | A-B   | C-D   | E   |   |
|-------|-------------------|-------|-------|-----|---|
| 9-11  | <b>RXFMS911B</b>  | 18-21 | 7-8   | 145 | • |
| 10-12 | <b>RXFMS1012B</b> | 20-22 | 8-9   | 153 | • |
| 13-14 | <b>RXFMS1314B</b> | 24-25 | 9-10  | 173 | • |
| 15-17 | <b>RXFMS1517B</b> | 26-29 | 10-11 | 193 | • |
| 16-18 | <b>RXFMS1618B</b> | 28-30 | 11-12 | 200 | • |
| 19-21 | <b>RXFMS1921B</b> | 32-34 | 12-13 | 223 | • |

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Set includes storage tray.



**RXFS605B**

### Double End Flare Nut, inches

Set Contains:

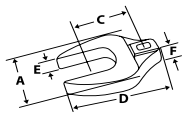
**RXFS605B**

|           |                  | A-B           | C-D        | E       |   |
|-----------|------------------|---------------|------------|---------|---|
| 1/4-5/16  | <b>RXFS810B</b>  | 19/32-21/32   | 1/4-9/32   | 4-27/32 | • |
| 3/8-7/16  | <b>RXFS1214B</b> | 3/4-27/32     | 5/16-11/32 | 5-13/16 | • |
| 1/2-9/16  | <b>RXFS1618B</b> | 29/32-1       | 3/8-13/32  | 6-13/16 | • |
| 5/8-11/16 | <b>RXFS2022B</b> | 1-3/32-1-5/32 | 7/16-15/32 | 7-3/4   | • |
| 3/4-13/16 | <b>RXFS2426B</b> | 1-1/4-1-5/16  | 1/2-17/32  | 8-25/32 | • |
| 3/4-7/8   | <b>RXFS2428B</b> | 1-1/4-1-27/64 | 1/2-5/8    | 9-1/2   |   |
| 3/4-1     | <b>RXFS2432B</b> | 1-1/4-1-9/16  | 1/2-5/8    | 9-1/2   |   |
| 7/8-1-1/8 | <b>RXFS2836B</b> | 1-13/32-1-3/4 | 9/16-11/16 | 10-1/2  |   |

ANSI® B107.100

Set includes storage tray.

## 1/4" DRIVE CROWFOOT WRENCHES



**TMCOS16**

### Flank Drive® Plus, Open End, inches

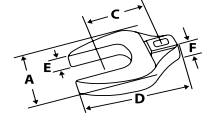
|      | Stock No.      | A      | C     | D       | E    | F    |
|------|----------------|--------|-------|---------|------|------|
| 7/16 | <b>TMCOS14</b> | 29/32  | 5/8   | 1-5/32  | 5/16 | 5/16 |
| 1/2  | <b>TMCOS16</b> | 1-1/16 | 21/32 | 1-15/64 | 5/16 | 5/16 |
| 9/16 | <b>TMCOS18</b> | 1-5/32 | 11/16 | 1-19/64 | 5/16 | 5/16 |

# 1/4" DRIVE CROWFOOT WRENCHES

## Open End, mm

Set Contains:

107TMCOM



| mm | Stock No. | A    | C    | D    | E   | F   |   |
|----|-----------|------|------|------|-----|-----|---|
| 7  | TMCOM7    | 13.5 | 13.2 | 24.4 | 6.6 | 6.6 | • |
| 8  | TMCOM8    | 16.8 | 14.1 | 25.9 | 6.6 | 6.6 | • |
| 10 | TMCOM10   | 19.8 | 14.6 | 27.5 | 6.6 | 6.6 | • |
| 11 | TMCOM11   | 22.4 | 16.0 | 29.4 | 7.9 | 7.9 | • |
| 12 | TMCOM12   | 24.4 | 16.5 | 30.6 | 7.9 | 7.9 | • |
| 13 | TMCOM13   | 26.4 | 16.6 | 31.2 | 7.9 | 7.9 | • |
| 14 | TMCOM14   | 29.0 | 17.7 | 32.9 | 7.9 | 7.9 | • |



107TMCOM

ASME® B107.21

Set includes storage tray.

## Open End, inches

Set Contains:

106TMC0

|      | Stock No. | A      | C     | D      | E    | F    |   |
|------|-----------|--------|-------|--------|------|------|---|
| 1/4  | TMCO8     | 17/32  | 17/32 | 31/32  | 1/4  | 1/4  | • |
| 5/16 | TMCO10    | 21/32  | 9/16  | 1-1/32 | 1/4  | 1/4  | • |
| 3/8  | TMCO12    | 25/32  | 19/32 | 1-3/32 | 1/4  | 1/4  | • |
| 7/16 | TMCO14    | 7/8    | 5/8   | 1-5/32 | 5/16 | 5/16 | • |
| 1/2  | TMCO16    | 1-1/32 | 21/32 | 1-1/4  | 5/16 | 5/16 | • |
| 9/16 | TMCO18    | 1-1/8  | 11/16 | 1-9/32 | 5/16 | 5/16 | • |



106TMC0

ASME® B107.21

Set includes storage tray.

## Flank Drive® Flare Nut/Shallow, 12-Point, inches

|      |        | A     | B    | C     | E   | Maximum Recommended Working Torque, in-lb |
|------|--------|-------|------|-------|-----|---|
| 1/4  | TMRX8  | 13/32 | 1/8  | 31/32 | 1/4 | 75  |
| 5/16 | TMRX10 | 1/2   | 3/16 | 31/32 | 1/4 | 75  |
| 3/8  | TMRX12 | 19/32 | 1/4  | 31/32 | 1/4 | 75  |



TMRX12

ASME® B107.21

## Flank Drive® Flare Nut/Deep, 12-Point, inches

|       |          | A     | B     | C     | E    | Maximum Recommended Working Torque, in-lb |
|-------|----------|-------|-------|-------|------|---|
| 3/8   | AN85086B | 19/32 | 9/32  | 1/2   | 1/2  | 75  |
| 7/16  | AN85087B | 11/16 | 11/32 | 9/16  | 9/16 | 200                                       |
| 1/2"  | AN85088B | 25/32 | 13/32 | 19/32 | 9/16 | 200                                       |
| 9/16" | AN85089B | 27/32 | 15/32 | 5/8   | 9/16 | 200                                       |



AN85088B

ASME® B107.21

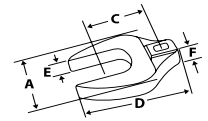
# 3/8" DRIVE CROWFOOT WRENCHES

## Flank Drive® Plus/Open End, inches

|        | Stock No. | A       | C      | D       | E     | F     |
|--------|-----------|---------|--------|---------|-------|-------|
| 5/8    | FCOS20    | 1-1/4   | 27/32  | 1-19/32 | 7/32  | 17/32 |
| 3/4    | FCOS24    | 1-17/32 | 1      | 1-29/32 | 1/4   | 17/32 |
| 15/16  | FCOS30    | 2       | 1-1/8  | 2-1/8   | 23/64 | 43/64 |
| 1-1/16 | FCOS34    | 2       | 1-3/32 | 2-1/8   | 23/64 | 43/64 |



FCOS24



- Use only moderate force on flare nut wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

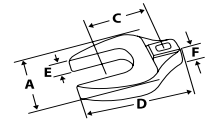
### 3/8" DRIVE CROWFOOT WRENCHES



214FC



211GFCO



#### Open End, Inches, Chrome

|         | Stock No. | Industrial Stock No. | A       | C       | D       | E     | F     | Maximum Recommended Working Torque, in-lb | Set Contains: |       |       |         |         |
|---------|-----------|----------------------|---------|---------|---------|-------|-------|---|---------------|-------|-------|---------|---------|
|         |           |                      |         |         |         |       |       |   | 242FC         | 226FC | 214FC | 211FCOA | 211GFCO |
| 3/8     | FC012A    | GFC012A              | 7/8     | 23/32   | 1-19/64 | 7/32  | 33/64 | 175                                       |               |       |       |         |         |
| 7/16    | FC014A    | GFC014A              | 7/8     | 21/32   | 1-17/64 | 7/32  | 33/64 | 250                                       | •             | •     | •     | •       | •       |
| 1/2     | FC016A    | GFC016A              | 1-1/32  | 51/64   | 1-29/64 | 7/32  | 33/64 | 300                                       | •             | •     | •     | •       | •       |
| 9/16    | FC018A    | GFC018A              | 1-1/4   | 15/16   | 1-5/8   | 7/32  | 33/64 | 400                                       | •             | •     | •     | •       | •       |
| 5/8     | FC020A    | GFC020A              | 1-1/4   | 7/8     | 1-19/32 | 7/32  | 33/64 | 500                                       | •             | •     | •     | •       | •       |
| 11/16   | FC022A    | GFC022A              | 1-33/64 | 1-3/32  | 1-59/64 | 1/4   | 33/64 | 650                                       | •             | •     | •     | •       | •       |
| 3/4     | FC024A    | GFC024A              | 1-33/64 | 1-1/32  | 1-57/64 | 1/4   | 33/64 | 850                                       | •             | •     | •     | •       | •       |
| 13/16   | FC026A    | GFC026A              | 1-23/32 | 1-3/32  | 2       | 9/32  | 19/32 | 1,050                                     | •             | •     | •     | •       | •       |
| 7/8     | FC028A    | GFC028A              | 1-23/32 | 1-3/64  | 1-31/32 | 9/32  | 19/32 | 1,250                                     | •             | •     | •     | •       | •       |
| 15/16   | FC030A    | GFC030A              | 2       | 1-5/32  | 2-1/8   | 11/32 | 21/32 | 1,400                                     | •             | •     | •     | •       | •       |
| 1       | FC032A    | GFC032A              | 2       | 1-1/8   | 2-3/32  | 11/32 | 21/32 | 1,600                                     | •             | •     | •     | •       | •       |
| 1-1/16  | FC34B     | —                    | 2       | 1-9/64  | 2       | 11/32 | 21/32 | 1,650                                     | •             | •     | •     |         |         |
| 1-1/8   | FC36A     | —                    | 2       | 1-11/64 | 2       | 23/64 | 39/64 | 1,700                                     | •             | •     | •     |         |         |
| 1-3/16  | FC38A     | —                    | 2       | 1-13/64 | 2-1/16  | 23/64 | 39/64 | 1,750                                     | •             | •     | •     |         |         |
| 1-1/4   | FC40A     | —                    | 2-5/32  | 1-1/4   | 2-7/32  | 23/64 | 41/64 | 1,750                                     | •             | •     | •     |         |         |
| 1-5/16  | FC42A     | —                    | 2-5/32  | 1-9/32  | 2-7/32  | 23/64 | 41/64 | 1,750                                     | •             | •     | •     |         |         |
| 1-3/8   | FC44A     | —                    | 2-23/64 | 1-5/16  | 2-3/8   | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-7/16  | FC46A     | —                    | 2-23/64 | 1-23/64 | 2-3/8   | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-1/2   | FC48A     | —                    | 2-17/32 | 1-25/64 | 2-1/2   | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-9/16  | FC50A     | —                    | 2-17/32 | 1-27/64 | 2-1/2   | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-5/8   | FC52A     | —                    | 2-21/32 | 1-29/64 | 2-19/32 | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-11/16 | FC54A     | —                    | 2-21/32 | 1-1/2   | 2-19/32 | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-3/4   | FC56A     | —                    | 2-7/8   | 1-17/32 | 2-3/4   | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-13/16 | FC58A     | —                    | 2-7/8   | 1-9/16  | 2-3/4   | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-7/8   | FC60A     | —                    | 3-5/32  | 1-19/32 | 2-55/64 | 23/64 | 41/64 | 1,800                                     | •             | •     | •     |         |         |
| 1-15/16 | FC62A     | —                    | 3-5/32  | 1-21/32 | 2-55/64 | 23/64 | 41/64 | 1,040                                     | •             | •     | •     |         |         |
| 2       | FC64A     | —                    | 3-13/32 | 1-47/64 | 3       | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-1/16  | FC66A     | —                    | 3-13/32 | 1-25/32 | 3       | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-1/8   | FC68A     | —                    | 3-19/32 | 1-13/16 | 3-3/16  | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-3/16  | FC70A     | —                    | 3-19/32 | 1-27/32 | 3-3/16  | 31/64 | 45/64 | 1,275                                     | •             | •     | •     |         |         |
| 2-1/4   | FC72A     | —                    | 3-27/32 | 1-15/16 | 3-7/16  | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-5/16  | FC74A     | —                    | 3-27/32 | 1-15/16 | 3-7/16  | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-3/8   | FC76A     | —                    | 4-1/8   | 2-5/64  | 3-11/16 | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-7/16  | FC78A     | —                    | 4-1/8   | 2-1/8   | 3-11/16 | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-1/2   | FC80A     | —                    | 4-9/32  | 2-11/64 | 3-13/16 | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-9/16  | FC82A     | —                    | 4-9/32  | 2-11/64 | 3-13/16 | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-5/8   | FC84A     | —                    | 4-17/32 | 2-21/64 | 4-1/16  | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-11/16 | FC86A     | —                    | 4-17/32 | 2-3/8   | 4-1/16  | 31/64 | 45/64 | 1,800                                     | •             | •     | •     |         |         |
| 2-3/4   | FC88A     | —                    | 4-23/32 | 2-7/16  | 4-1/4   | 31/64 | 45/64 | 1,900                                     | •             | •     | •     |         |         |
| 2-13/16 | FC90A     | —                    | 4-23/32 | 2-17/32 | 4-1/4   | 31/64 | 45/64 | 2,075                                     | •             | •     | •     |         |         |
| 2-7/8   | FC92A     | —                    | 4-23/32 | 2-17/32 | 4-9/16  | 31/64 | 45/64 | 2,075                                     | •             | •     | •     |         |         |
| 2-15/16 | FC94A     | —                    | 5-3/32  | 2-43/64 | 4-9/16  | 31/64 | 45/64 | 2,200                                     | •             | •     | •     |         |         |
| 3       | FC96A     | —                    | 5-3/32  | 2-23/32 | 4-1/2   | 31/64 | 45/64 | 2,200                                     | •             | •     | •     |         |         |

ASME®/ANSI® B107.100

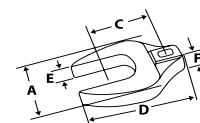
Sets include storage tray.

# 3/8" DRIVE CROWFOOT WRENCHES

WRENCHES



210FCOMA



## Open End, mm, Chrome

Set Contains:

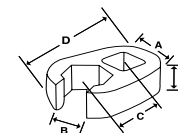
| mm | Stock No. | A    | C    | D    | E   | F    | Maximum Recommended Working Torque, in-lb | Set Contains: |           |
|----|-----------|------|------|------|-----|------|---|---------------|-----------|
|    |           |      |      |      |     |      |   | 216FCOM       | 210FCOMA* |
| 9  | FCOM9A    | 22.4 | 18.8 | 33.3 | 5.3 | 13.2 | 150                                       | •             |           |
| 10 | FCOM10A   | 22.4 | 17.6 | 33.0 | 5.3 | 13.2 | 200                                       | •             | •         |
| 11 | FCOM11A   | 22.4 | 16.6 | 32.3 | 5.3 | 13.2 | 250                                       | •             | •         |
| 12 | FCOM12A   | 26.2 | 21.0 | 37.3 | 5.3 | 13.2 | 275                                       | •             | •         |
| 13 | FCOM13A   | 26.2 | 19.8 | 36.8 | 5.3 | 13.2 | 300                                       | •             | •         |
| 14 | FCOM14A   | 26.2 | 18.6 | 36.1 | 5.3 | 13.2 | 325                                       | •             | •         |
| 15 | FCOM15A   | 31.8 | 22.7 | 40.9 | 5.3 | 13.2 | 400                                       | •             | •         |
| 16 | FCOM16A   | 31.8 | 21.7 | 40.4 | 5.3 | 13.2 | 450                                       | •             | •         |
| 17 | FCOM17A   | 31.8 | 20.5 | 39.9 | 5.3 | 13.2 | 500                                       | •             | •         |
| 18 | FCOM18A   | 38.4 | 27.2 | 48.5 | 6.4 | 13.2 | 650                                       | •             | •         |
| 19 | FCOM19A   | 38.4 | 26.2 | 48.0 | 6.4 | 13.2 | 750                                       | •             | •         |
| 20 | FCOM20A   | 38.4 | 25.0 | 48.0 | 6.4 | 13.2 | 850                                       | •             | •         |
| 21 | FCOM21A   | 43.7 | 27.4 | 48.8 | 7.1 | 15.0 | 1,050                                     | •             | •         |
| 22 | FCOM22A   | 43.7 | 26.4 | 50.0 | 7.1 | 15.0 | 1,250                                     | •             | •         |
| 23 | FCOM23A   | 50.5 | 30.1 | 54.4 | 8.9 | 16.8 | 1,400                                     | •             | •         |
| 24 | FCOM24A   | 50.5 | 28.8 | 53.8 | 8.9 | 16.8 | 1,600                                     | •             | •         |

ASME® B107.21

\*Set includes storage tray.



210FRHMA



## Flank Drive® Flare Nut, 6-Point, mm

Set Contains:

| mm | 6      | A    | B    | C    | D    | E    | Maximum Recommended Working Torque, in-lb | Set Contains: |   |
|----|--------|------|------|------|------|------|---|---------------|---|
|    |        |      |      |      |      |      |   | 210FRHMA      | 6 |
| 9  | FRHM9  | 22.4 | 6.7  | 14.2 | 33.3 | 9.7  | 220                                       |               |   |
| 10 | FRHM10 | 22.9 | 7.4  | 14.2 | 35.3 | 9.7  | 265                                       | •             |   |
| 11 | FRHM11 | 22.9 | 8.3  | 14.2 | 35.3 | 9.7  | 310                                       | •             |   |
| 12 | FRHM12 | 25.4 | 9.0  | 14.2 | 36.6 | 9.7  | 355                                       | •             |   |
| 13 | FRHM13 | 25.4 | 9.4  | 14.2 | 36.6 | 9.7  | 400                                       | •             |   |
| 14 | FRHM14 | 28.4 | 10.5 | 18.8 | 40.9 | 11.2 | 485                                       | •             |   |
| 15 | FRHM15 | 28.4 | 11.2 | 18.8 | 40.9 | 11.2 | 575                                       | •             |   |
| 16 | FRHM16 | 28.4 | 11.7 | 18.8 | 40.9 | 11.2 | 665                                       | •             |   |
| 17 | FRHM17 | 33.3 | 12.6 | 20.6 | 44.7 | 12.7 | 750                                       | •             |   |
| 18 | FRHM18 | 33.3 | 13.6 | 20.6 | 44.7 | 12.7 | 840                                       | •             |   |
| 19 | FRHM19 | 33.3 | 14.7 | 20.6 | 44.7 | 12.7 | 930                                       | •             |   |
| 20 | FRHM20 | 41.1 | 15.2 | 22.1 | 50.3 | 14.2 | 1,060                                     | •             |   |
| 21 | FRHM21 | 41.1 | 16.3 | 22.1 | 50.3 | 14.2 | 1,150                                     | •             |   |
| 22 | FRHM22 | 41.1 | 17.0 | 22.1 | 50.3 | 14.2 | 1,285                                     | •             |   |

ASME® B107.21

Set includes storage tray.

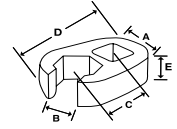


- Use only moderate force on crowfoot and flare nut wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

### 3/8" DRIVE CROWFOOT WRENCHES






2075FRH



#### Flank Drive® Flare Nut, 6-Point, inches

Set Contains: 2075FRH

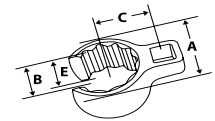
|  |  | A      | B     | C     | D       | E    | Maximum Recommended Working Torque, in-lb |  |
|---|---|--------|-------|-------|---------|------|---|---|
| 3/8   | FRH120S   | 13/32  | 1/4   | 9/16  | 1-11/32 | 3/8  | 240                                       | •   |
| 7/16  | FRH140S   | 29/32  | 5/16  | 9/16  | 1-13/32 | 3/8  | 320                                       | •   |
| 1/2   | FRH160S   | 1      | 11/32 | 9/16  | 1-7/16  | 3/8  | 400                                       | •   |
| 9/16  | FRH180S   | 1-1/8  | 3/8   | 3/4   | 1-5/8   | 7/16 | 510                                       | •   |
| 5/8   | FRH200S   | 1-1/8  | 7/16  | 3/4   | 1-5/8   | 7/16 | 625                                       | •   |
| 11/16   | FRH220S   | 1-5/16 | 1/2   | 13/16 | 1-25/32 | 1/2  | 750                                       | •   |
| 3/4   | FRH240S   | 1-5/16 | 9/16  | 13/16 | 1-25/32 | 1/2  | 880                                       | •   |
| 13/16   | FRH260S   | 1-5/8  | 5/8   | 7/8   | 1-31/32 | 9/16 | 1,025                                     | •   |
| 7/8   | FRH280S   | 1-5/8  | 23/32 | 7/8   | 1-31/32 | 9/16 | 1,180                                     | •   |
| 15/16   | FRH300S   | 1-7/8  | 11/16 | 15/16 | 2-3/16  | 5/8  | 1,280                                     | •   |
| 1   | FRH320S   | 1-7/8  | 3/4   | 15/16 | 2-3/16  | 5/8  | 1,480                                     | •   |

ASME® B107.21

Set includes storage tray.






205ANM



#### Flank Drive® Flare Nut, Deep, 12-Point, mm

Set Contains: 205ANM

|  |  | A    | B    | C    | E    |  |
|---|---|------|------|------|------|---|
| 12  | ANM12   | 18.9 | 8.3  | 16.3 | 15.0 | •   |
| 13  | ANM13   | 21.2 | 9.7  | 17.7 | 15.0 | •   |
| 14  | ANM14   | 21.2 | 10.5 | 17.7 | 15.0 | •   |
| 17  | ANM17   | 26.6 | 13.0 | 19.7 | 19.1 | •   |
| 19  | ANM19   | 29.0 | 14.6 | 20.9 | 19.8 | •   |




Set includes storage tray.



208AN

#### Flank Drive® Flare Nut, Deep, 12-Point, inches

Set Contains: 208AN

|  |  | A       | B     | C      | E     | Maximum Recommended Working Torque, in-lb |  |
|---|---|---------|-------|--------|-------|---|---|
| 5/8   | AN850810B   | 15/16   | 1/2   | 23/32  | 23/32 | 250                                       | •   |
| 11/16   | AN850811B   | 1-1/32  | 17/32 | 25/32  | 23/32 | 310                                       | •   |
| 3/4   | AN850812B   | 1-1/8   | 9/16  | 13/16  | 3/4   | 450                                       | •   |
| 13/16   | AN850813B   | 1-7/32  | 5/8   | 7/8    | 3/4   | 450                                       | •   |
| 7/8   | AN850814B   | 1-5/16  | 25/32 | 15/16  | 25/32 | 625                                       | •   |
| 15/16   | AN850815B   | 1-3/8   | 3/4   | 31/32  | 25/32 | 625                                       | •   |
| 1   | AN850816B   | 1-7/16  | 3/4   | 1      | 13/16 | 625                                       | •   |
| 1-1/16  | AN850817B   | 1-17/32 | 25/32 | 1-1/32 | 13/16 | 625                                       | •   |

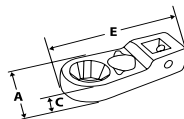
ASME®/ANSI® B107.21

Set includes storage tray.

## 3/8" DRIVE CROWFOOT WRENCHES



BFCRM712A



BFCRM712A

### Ratcheting, mm (Blue-Point®)

Set Contains:

| mm |          | A    | C    | E    |   |
|----|----------|------|------|------|---|
| 8  | BFCRM8A  | 17.8 | 6.5  | 49.3 | • |
| 9  | BFCRM9A  | 19.5 | 7.4  | 50.8 | • |
| 10 | BFCRM10A | 21.5 | 8.0  | 53.8 | • |
| 11 | BFCRM11A | 22.0 | 8.5  | 53.8 | • |
| 12 | BFCRM12A | 23.5 | 9.0  | 57.2 | • |
| 13 | BFCRM13A | 25.0 | 10.0 | 57.2 | • |
| 14 | BFCRM14A | 27.0 | 10.0 | 60.3 | • |
| 15 | BFCRM15A | 28.5 | 11.0 | 63.5 | • |
| 16 | BFCRM16A | 30.5 | 11.0 | 66.7 | • |
| 17 | BFCRM17A | 34.5 | 12.0 | 68.3 | • |
| 18 | BFCRM18A | 36.5 | 12.0 | 71.4 | • |
| 19 | BFCRM19A | 36.5 | 12.9 | 73.0 | • |



BFCR708A

BFCR708A

### Ratcheting, inches (Blue-Point®)

Set Contains:

|       |         | A      | C     | E     |   |
|-------|---------|--------|-------|-------|---|
| 5/16  | BFCR10A | 11/16  | 1/4   | 2     | • |
| 3/8   | BFCR12A | 27/32  | 5/16  | 2-1/8 | • |
| 7/16  | BFCR14A | 7/8    | 11/32 | 2-1/8 | • |
| 1/2   | BFCR16A | 31/32  | 13/32 | 2-1/4 | • |
| 9/16  | BFCR18A | 1-1/16 | 13/32 | 2-3/8 | • |
| 5/8   | BFCR20A | 1-3/16 | 7/16  | 2-5/8 | • |
| 11/16 | BFCR22A | 1-1/4  | 15/32 | 2-5/8 | • |
| 3/4   | BFCR24A | 1-7/16 | 1/2   | 2-7/8 | • |

Set includes FXLBP10—10" locking extension

Set includes storage tray.

### Crowfoot Wrench Holder

#### A277 3/8" Drive 8-3/4" Crowfoot Wrench Holder

- Organizes and stores crowfoot wrenches
- 2 pc design snaps apart for access to desired size
- 8-3/4" long

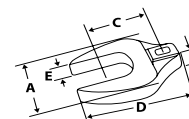


A277

## 1/2" DRIVE CROWFOOT WRENCHES

### Open End, mm

| mm |         | A     | C    | E    | F    | Maximum Recommended Working Torque, in-lb |
|----|---------|-------|------|------|------|---|
| 20 | SCOM20  | 40.4  | 42.9 | 7.8  | 15.9 | 1,400                                     |
| 21 | SCOM21  | 40.4  | 42.9 | 7.8  | 15.9 | 1,500                                     |
| 22 | SCOM22  | 44.7  | 44.5 | 8.2  | 15.9 | 1,500                                     |
| 23 | SCOM23  | 48.0  | 44.5 | 8.9  | 15.9 | 1,600                                     |
| 24 | SCOM24  | 46.7  | 44.5 | 8.5  | 15.9 | 1,800                                     |
| 25 | SCOM25  | 51.1  | 45.2 | 8.9  | 15.9 | 1,800                                     |
| 26 | SCOM26  | 53.1  | 45.2 | 9.2  | 15.9 | 1,800                                     |
| 27 | SCOM27  | 53.1  | 44.5 | 9.2  | 15.9 | 2,000                                     |
| 28 | SCOM28  | 53.1  | 43.6 | 9.2  | 15.9 | 2,100                                     |
| 30 | SCOM30  | 59.7  | 44.5 | 9.9  | 15.9 | 2,200                                     |
| 32 | SCOM32  | 62.7  | 50.0 | 10.3 | 15.9 | 2,300                                     |
| 34 | SCOM34  | 62.7  | 51.6 | 10.3 | 15.9 | 2,400                                     |
| 35 | SCOM35  | 69.1  | 50.8 | 11.0 | 15.9 | 2,500                                     |
| 36 | SCOM36  | 69.1  | 50.0 | 11.0 | 15.9 | 2,600                                     |
| 38 | SCOM38  | 75.4  | 50.8 | 11.8 | 15.9 | 2,900                                     |
| 40 | SCOM40  | 75.4  | 51.6 | 11.8 | 15.9 | 3,000                                     |
| 41 | SCOM41  | 81.8  | 50.8 | 12.5 | 15.9 | 3,400                                     |
| 42 | SCOM42  | 81.8  | 50.0 | 12.5 | 15.9 | 3,400                                     |
| 46 | SCOM46  | 91.2  | 51.2 | 13.5 | 15.9 | 4,100                                     |
| 50 | SCOM50A | 100.8 | 53.8 | 14.6 | 16.1 | —   |



SCOM32

### Adjustable, inches/mm

#### ADCF8 3/8" Drive Metric 0–29 mm Adjustable Crowfoot Wrench

- Metric and SAE scales
- Opening range from 0–1.14" (0–29 mm)
- Lateral side nut is designed to work on difficult-to-access fasteners and minimizes dirt accumulation



ADCF8

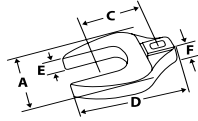


**WARNING**



- Use only moderate force on crowfoot and flare nut wrenches
- Read safety precautions on pages W1 to W4

## 1/2" DRIVE CROWFOOT WRENCHES



314SC0A

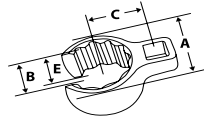
### Open End, inches

Set Contains:  
314SC0A

| 1/2" Drive | Part No. | A       | C       | E     | F   | Maximum Recommended Working Torque, in-lb |   |
|------------|----------|---------|---------|-------|-----|---|---|
| 15/16      | SC030    | 1-27/32 | 1-15/32 | 11/32 | 5/8 | 1,800                                     |   |
| 1          | SC032    | 1-31/32 | 1-11/16 | 23/64 | 5/8 | 1,900                                     |   |
| 1-1/16     | SC034    | 2-3/32  | 1-3/4   | 3/8   | 5/8 | 2,000                                     | • |
| 1-1/8      | SC036    | 2-7/32  | 1-3/4   | 3/8   | 5/8 | 2,100                                     | • |
| 1-3/16     | SC038    | 2-11/32 | 1-3/4   | 13/32 | 5/8 | 2,200                                     | • |
| 1-1/4      | SC040    | 2-15/32 | 2       | 13/32 | 5/8 | 2,300                                     | • |
| 1-5/16     | SC042    | 2-19/32 | 2       | 7/16  | 5/8 | 2,400                                     | • |
| 1-3/8      | SC044    | 2-23/32 | 2       | 7/16  | 5/8 | 2,500                                     | • |
| 1-7/16     | SC046    | 2-27/32 | 2       | 7/16  | 5/8 | 2,600                                     | • |
| 1-1/2      | SC048    | 2-31/32 | 2       | 15/32 | 5/8 | 2,900                                     | • |
| 1-9/16     | SC050    | 2-31/32 | 1-31/32 | 15/32 | 5/8 | 3,000                                     |   |
| 1-5/8      | SC052    | 3-7/32  | 1-31/32 | 1/2   | 5/8 | 3,400                                     | • |
| 1-11/16    | SC054    | 3-11/32 | 2-3/16  | 1/2   | 5/8 | 3,700                                     | • |
| 1-3/4      | SC056    | 3-15/32 | 2-3/16  | 17/32 | 5/8 | 3,900                                     | • |
| 1-13/16    | SC058    | 3-19/32 | 2-3/16  | 17/32 | 5/8 | 4,100                                     | • |
| 1-7/8      | SC060    | 3-23/32 | 2-3/16  | 9/16  | 5/8 | 4,300                                     | • |
| 2          | SC064    | 3-31/32 | 2-7/32  | 9/16  | 5/8 | 5,000                                     | • |
| 2-1/8      | SC068    | 3-31/32 | 2-7/32  | 37/64 | 5/8 | 5,000                                     |   |
| 2-1/4      | SC072    | 3-31/32 | 2-13/32 | 37/64 | 5/8 | 5,000                                     |   |
| 2-3/8      | SC076    | 4-3/8   | 2-31/64 | 19/32 | 5/8 | 5,000                                     |   |
| 2-7/16     | SC078    | 4-3/8   | 2-7/16  | 19/32 | 5/8 | 5,000                                     |   |
| 2-1/2      | SC080    | 4-3/8   | 2-13/32 | 19/32 | 5/8 | 5,000                                     |   |

ASME® B107.21

Set includes storage tray.



315AN

### Flank Drive® Flare Nut/Deep, 12-Point, inches

Set Contains:  
315AN

| 1/2" Drive | 12-Point  | A       | B       | C       | E      | Maximum Recommended Working Torque, in-lb | 12-Point |
|------------|-----------|---------|---------|---------|--------|---|----------|
| 1-1/8      | AN850818B | 1-5/8   | 27/32   | 1-5/32  | 7/8    | 825                                       | •        |
| 1-3/16     | AN850819B | 1-11/16 | 29/32   | 1-3/16  | 7/8    | 825                                       | •        |
| 1-1/4      | AN850820B | 1-25/32 | 15/16   | 1-7/32  | 7/8    | 825                                       | •        |
| 1-5/16     | AN850821B | 1-27/32 | 31/32   | 1-1/4   | 7/8    | 900                                       | •        |
| 1-3/8      | AN850822B | 1-15/16 | 1-1/16  | 1-5/16  | 15/16  | 900                                       | •        |
| 1-7/16     | AN850823B | 2       | 1-1/16  | 1-11/32 | 15/16  | 900                                       | •        |
| 1-1/2      | AN850824B | 2-3/32  | 1-1/8   | 1-3/8   | 15/16  | 900                                       | •        |
| 1-9/16     | AN850825B | 2-5/32  | 1-5/32  | 1-13/32 | 15/16  | 900                                       | •        |
| 1-5/8      | AN850826B | 2-7/32  | 1-7/32  | 1-7/16  | 15/16  | 1,100                                     | •        |
| 1-11/16    | AN850827B | 2-5/16  | 1-5/16  | 1-1/2   | 1-1/32 | 1,100                                     | •        |
| 1-3/4      | AN850828B | 2-3/8   | 1-5/16  | 1-9/16  | 1-1/32 | 1,150                                     | •        |
| 1-13/16    | AN850829B | 2-15/32 | 1-11/32 | 1-19/32 | 1-1/32 | 1,200                                     | •        |
| 1-7/8      | AN850830B | 2-9/16  | 1-3/8   | 1-21/32 | 1-1/16 | 1,200                                     | •        |
| 1-15/16    | AN850831B | 2-5/8   | 1-7/16  | 1-11/16 | 1-1/16 | 1,200                                     | •        |
| 2          | AN850832B | 2-23/32 | 1-9/16  | 1-23/32 | 1-1/16 | 1,400                                     | •        |
| 2-1/8      | AN850834B | 2-7/8   | 1-9/16  | 1-13/16 | 1-1/8  | 1,450                                     |          |
| 2-3/16     | AN850835B | 2-15/16 | 1-21/32 | 1-27/32 | 1-1/8  | 1,500                                     |          |
| 2-1/4      | AN850836B | 3-1/32  | 1-11/16 | 1-7/8   | 1-1/8  | 1,500                                     |          |
| 2-3/8      | AN850838B | 3-3/16  | 1-13/16 | 1-31/32 | 1-3/16 | 1,600                                     |          |
| 2-7/16     | AN850839B | 3-1/4   | 1-13/16 | 2       | 1-3/16 | 1,650                                     |          |
| 2-9/16     | AN850841B | 3-7/16  | 1-29/32 | 2-3/32  | 1-9/32 | 1,750                                     |          |
| 2-5/8      | AN850842B | 3-1/2   | 2-1/16  | 2-1/8   | 1-9/32 | 1,800                                     |          |
| 2-11/16    | AN850843B | 3-19/32 | 2-1/16  | 2-5/32  | 1-9/32 | 1,800                                     |          |
| 2-3/4      | AN850844B | 3-21/32 | 2-1/16  | 2-7/32  | 1-9/32 | 1,850                                     |          |
| 3-1/8      | AN850850B | 4-1/8   | 2-5/16  | 2-7/16  | 1-5/16 | 2,000                                     |          |

ASME® B107.21







## Flank Drive® Straight Striking, 12-Point, inches/mm

Set Contains:

DX634



|  |  |  | A       | B       | C        |  |
|---|---|---|---------|---------|----------|---|
| 1-3/16  | 30  | DX138A  | 7/8     | 2-3/32  | 7-35/64  | •   |
| 1-1/4   | 32  | DX140A  | 7/8     | 2-3/32  | 7-35/64  | •   |
| 1-5/16  | 33  | DX142A  | 7/8     | 2-3/32  | 7-35/64  | •   |
| 1-3/8   | 35  | DX144A  | 61/64   | 2-17/64 | 7-41/64  | •   |
| 1-7/16  | 36  | DX146A  | 61/64   | 2-17/64 | 7-41/64  | •   |
| 1-1/2   | 38  | DX148A  | 61/64   | 1-17/64 | 7-41/64  | •   |
| 1-5/8   | 41  | DX152A  | 1-9/64  | 2-5/8   | 7-53/64  | •   |
| 1-11/16   | 43  | DX154A  | 1-9/64  | 2-5/8   | 7-53/64  | •   |
| 1-3/4   | 44  | DX156A  | 1-7/32  | 2-13/16 | 7-29/32  | •   |
| 1-13/16   | 46  | DX158A  | 1-7/32  | 2-13/16 | 7-29/32  | •   |
| 1-7/8   | 47  | DX160A  | 1-7/32  | 2-13/16 | 7-29/32  | •   |
| —   | 50  | DXM50   | 1-13/32 | 3-11/64 | 11-19/32 | •   |
| 2   | 51  | DX164A  | 1-13/32 | 3-11/64 | 11-19/32 | •   |
| 2-1/16  | 52  | DX166A  | 1-13/32 | 3-11/64 | 11-19/32 | •   |
| 2-3/16  | 55  | DX170A  | 1-17/32 | 3-29/64 | 11-47/64 | •   |
| 2-1/4   | 57  | DX172A  | 1-17/32 | 3-29/64 | 11-47/64 | •   |
| 2-3/8   | 60  | DX176A  | 1-21/32 | 3-23/32 | 11-55/64 | •   |
| 2-7/16  | 62  | DX178A  | 1-21/32 | 3-23/32 | 11-55/64 | •   |
| 2-1/2   | 63  | DX180A  | 1-21/32 | 3-23/32 | 11-55/64 | •   |
| 2-9/16  | 65  | DX182A  | 1-51/64 | 3-63/64 | 13       | •   |
| 2-5/8   | 67  | DX184A  | 1-51/64 | 3-63/64 | 13       | •   |
| 2-3/4   | 70  | DX188A  | 1-59/64 | 4-17/64 | 14-17/64 | •   |
| 2-13/16   | 71  | DX190A  | 1-59/64 | 4-17/64 | 14-17/64 | •   |
| 2-15/16   | 75  | DX194A  | 2-3/64  | 4-17/32 | 14-13/32 | •   |
| 3   | 76  | DX196A  | 2-3/64  | 4-17/32 | 14-13/32 | •   |
| 3-1/8   | 79  | DX1100A   | 2-17/64 | 4-29/32 | 17-37/64 | •   |
| 3-3/8   | 85  | DX1108A   | 2-17/64 | 4-29/32 | 17-37/64 | •   |
| 3-1/2   | 89  | DX1112A   | 2-29/64 | 5-19/64 | 17-51/64 | •   |
| 3-3/4   | 95  | DX1120A   | 2-21/32 | 5-17/32 | 17-51/64 | •   |
| 3-7/8   | 98  | DX1124A   | 2-21/32 | 5-17/32 | 17-57/64 | •   |
| 4-1/8   | 105   | DX1132A   | 2-59/64 | 6-1/32  | 18-9/64  | •   |
| 4-1/4   | 108   | DX1136A   | 2-59/64 | 6-1/32  | 18-9/64  | •   |
| 4-1/2   | 114   | DX1144A   | 3-5/32  | 6-25/32 | 20-1/64  | •   |
| 4-5/8   | 117   | DX1148A   | 3-5/32  | 6-25/32 | 20-1/64  | •   |



DX158A

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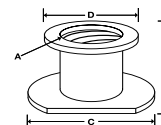
## Slugging Wrench Retainers

Set Contains:

HTX100P

| Stock No. | Description              | A     | B       | C       | D       |   |
|-----------|--------------------------|-------|---------|---------|---------|---|
| HTX24     | Slugging Wrench Retainer | 3/8   | 1-29/32 | 1-15/16 | 1-3/4   | • |
| HTX28     | Slugging Wrench Retainer | 7/8   | 2       | 2-3/16  | 1-29/32 | • |
| HTX32     | Slugging Wrench Retainer | 1     | 2-1/8   | 2-1/2   | 2-1/32  | • |
| HTX36     | Slugging Wrench Retainer | 1-1/8 | 2-1/4   | 2-1/2   | 2-5/32  | • |
| HTX40     | Slugging Wrench Retainer | 1-1/4 | 2-3/8   | 2-7/8   | 2-9/32  | • |
| HTX44     | Slugging Wrench Retainer | 1-3/8 | 2-15/32 | 3-1/8   | 2-3/8   | • |
| HTX48     | Slugging Wrench Retainer | 1-1/2 | 2-5/8   | 3-1/8   | 2-1/2   | • |
| HTX52     | Slugging Wrench Retainer | 1-5/8 | 2-3/4   | 3-5/8   | 2-21/32 | • |
| HTX56     | Slugging Wrench Retainer | 1-3/4 | 2-7/8   | 3-7/8   | 2-3/4   | • |
| HTX60     | Slugging Wrench Retainer | 1-7/8 | 3       | 4-1/2   | 2-7/8   | • |

Set includes storage case.



HTX100P



HTX52



- Use only moderate force on crowfoot and flare nut wrenches
- Read safety precautions on pages W1 to W4

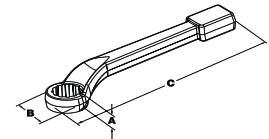
## HEAVY-DUTY STRIKING WRENCHES



HX400B







HX1000A



### Flank Drive® Offset Handle Sledge Hammer, 12-Point, inches/mm

Set Contains: **HX635**

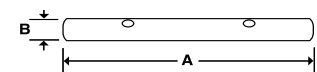
|  |  |  | A     | B       | C       |  |
|---|---|---|-------|---------|---------|---|
| 1-1/16  | 27  | HX340A  | 11/16 | 1-5/8   | 10      | •   |
| 1-1/8   | —   | HX360A  | 3/4   | 1-15/16 | 11      | •   |
| 1-3/16  | 30  | HX380A  | 3/4   | 1-15/16 | 11      | •   |
| 1-1/4   | 32  | HX400B  | 3/4   | 1-15/16 | 11      | •   |
| 1-5/16  | 33  | HX420A  | 3/4   | 1-15/16 | 11      | •   |
| 1-3/8   | 35  | HX440A  | 7/8   | 2-1/8   | 11-1/2  | •   |
| 1-7/16  | 36  | HX460A  | 7/8   | 2-1/8   | 11-1/2  | •   |
| 1-1/2   | 38  | HX480A  | 1     | 2-7/16  | 12      | •   |
| 1-5/8   | 41  | HX520A  | 1     | 2-7/16  | 12      | •   |
| 1-11/16   | 43  | HX540A  | 1-1/8 | 2-5/8   | 12-1/2  | •   |
| 1-3/4   | 44  | HX560A  | 1-1/8 | 2-5/8   | 12-1/2  | •   |
| 1-13/16   | 46  | HX580A  | 1-1/8 | 2-5/8   | 12-1/2  | •   |
| 1-7/8   | 47  | HX600A  | 1-1/4 | 2-7/8   | 13      | •   |
| 1-15/16   | 49  | HX620A  | 1-1/2 | 2-7/8   | 13      | •   |
| —   | 50  | HXM50   | 1-1/4 | 2-7/8   | 13      | •   |
| 2   | 51  | HX640A  | 1-1/4 | 2-7/8   | 13      | •   |
| 2-1/8   | —   | HX680A  | 1-3/8 | 3-1/4   | 13-9/16 | •   |
| 2-3/16  | 55  | HX700A  | 1-3/8 | 3-1/4   | 13-9/16 | •   |
| 2-1/4   | 57  | HX720A  | 1-3/8 | 3-1/4   | 13-9/16 | •   |
| 2-5/16  | 59  | HX740A  | 1-3/8 | 3-1/4   | 13-9/16 | •   |
| 2-3/8   | 60  | HX760A  | 1-1/2 | 3-5/8   | 14-1/8  | •   |
| 2-1/2   | 64  | HX800A  | 1-1/2 | 3-5/8   | 14-1/8  | •   |
| 2-9/16  | 65  | HX820A  | 1-1/2 | 3-5/8   | 14-1/8  | •   |
| 2-5/8   | 67  | HX840A  | 1-5/8 | 3-15/16 | 15      | •   |
| 2-3/4   | 70  | HX880A  | 1-5/8 | 3-15/16 | 15      | •   |
| 2-7/8   | 73  | HX920A  | 1-3/4 | 4-7/16  | 16      | •   |
| 2-15/16   | 75  | HX940A  | 1-3/4 | 4-7/16  | 16      | •   |
| 3   | 76  | HX960A  | 1-3/4 | 4-7/16  | 16      | •   |
| 3-1/8   | 80  | HX1000A   | 1-3/4 | 4-7/16  | 16      | •   |
| 3-3/8   | 85  | HX1080A   | 2     | 6-1/4   | 18-1/4  | •   |
| 3-1/2   | 89  | HX1120A   | 2     | 6-1/4   | 18-1/4  | •   |
| 3-3/4   | 95  | HX1200A   | 2     | 6-1/4   | 18-1/4  | •   |
| 3-7/8   | 98  | HX1240A   | 2     | 6-1/4   | 18-1/4  | •   |
| 4-1/8   | 105   | HX1320A   | 2     | 6-1/4   | 18-1/4  | •   |
| 4-1/4   | 108   | HX1360A   | 2     | 6-1/4   | 18-1/4  | •   |

Set includes storage case.

## HEAVY-DUTY TUBULAR WRENCHES



13B





### Tubular Handles

| Stock No. | A      | B      | Size, inches |
|-----------|--------|--------|--------------|
| 13B       | 13-1/2 | 7/8    | 13           |
| 24B       | 24     | 7/8    | 24           |
| 36B       | 36     | 1-9/64 | 36           |

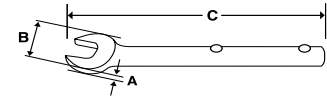
# HEAVY-DUTY TUBULAR WRENCHES

WRENCHES




## Open-End Tubular, inches/mm

|  |  | Stock No. | A     | B       | C       | Fits Handle No. |
|---|---|-----------|-------|---------|---------|-----------------|
| 7/8   | —   | OE128C    | 1/2   | 1-15/16 | 10-1/2  | 13B or 24B      |
| 15/16   | —   | OE130C    | 1/2   | 1-15/16 | 10-1/2  | 13B or 24B      |
| 1   | —   | OE132C    | 9/16  | 2-5/16  | 11-5/16 | 13B or 24B      |
| 1-1/16  | 27  | OE134C    | 9/16  | 2-5/16  | 11-5/16 | 13B or 24B      |
| 1-1/8   | —   | OE136C    | 9/16  | 2-5/16  | 11-1/4  | 13B or 24B      |
| 1-1/4   | 32  | OE140C    | 5/8   | 2-3/4   | 12-5/16 | 13B or 24B      |
| 1-5/16  | 33  | OE142C    | 5/8   | 2-3/4   | 12-5/16 | 13B or 24B      |
| 1-3/8   | 35  | OE144C    | 5/8   | 2-3/4   | 12-1/4  | 13B or 24B      |
| 1-7/16  | 36  | OE146C    | 11/16 | 3-1/8   | 13-1/4  | 13B or 24B      |
| 1-1/2   | 38  | OE148C    | 11/16 | 3-1/8   | 13-5/16 | 13B or 24B      |

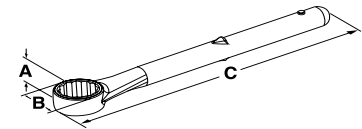
ASME® B107.100




## Flank Drive® Straight Box, inches/mm

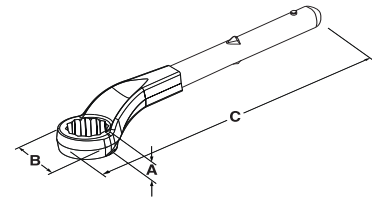
|  |  |  | A     | B       | C        | Fits Handle No. |
|---|---|---|-------|---------|----------|-----------------|
| 3/4   | —   | XH124C  | 1/2   | 1-1/4   | 10-13/16 | 13B or 24B      |
| 13/16   | —   | XH126C  | 1/2   | 1-1/4   | 10-13/16 | 13B or 24B      |
| 7/8   | —   | XH128C  | 5/8   | 1-7/16  | 10-15/16 | 13B or 24B      |
| 15/16   | —   | XH130C  | 5/8   | 1-7/16  | 10-15/16 | 13B or 24B      |
| 1   | —   | XH132C  | 11/16 | 1-9/16  | 11       | 13B or 24B      |
| 1-1/16  | 27  | XH134C  | 11/16 | 1-9/16  | 11       | 13B or 24B      |
| 1-1/8   | —   | XH136C  | 11/16 | 1-11/16 | 11-1/8   | 13B or 24B      |
| 1-1/4   | 32  | XH140C  | 3/4   | 1-15/16 | 13-1/2   | 13B or 24B      |
| 1-5/16  | 33  | XH142C  | 3/4   | 1-15/16 | 13-1/2   | 13B or 24B      |
| 1-7/16  | 36  | XH146C  | 7/8   | 2-3/16  | 13-5/8   | 13B or 24B      |
| 1-1/2   | 38  | XH148C  | 7/8   | 2-3/16  | 13-3/4   | 13B or 24B      |
| 1-5/8   | 41  | XH152C  | 15/16 | 2-3/8   | 13-3/4   | 13B or 24B      |
| 3-1/8   | 79  | XH1100C   | 1-3/4 | 4-15/16 | 14-7/8   | 36B             |

ASME® B107.100



## Flank Drive® Offset Box, inches

| Size, inches |  | A       | B       | C        | Fits Handle No. |
|--------------|---|---------|---------|----------|-----------------|
| 1-1/16       | X340B   | 5/8     | 1-21/32 | 10-1/2   | 24B             |
| 1-1/8        | X360B   | 47/64   | 1-29/32 | 10-45/64 | 24B             |
| 1-1/4        | X400C   | 47/64   | 1-29/32 | 10-45/64 | 24B             |
| 1-5/16       | X420B   | 13/16   | 2       | 10-51/64 | 24B             |
| 1-3/8        | X440B   | 7/8     | 2-5/64  | 10-51/64 | 24B             |
| 1-7/16       | X460B   | 7/8     | 2-11/64 | 10-51/64 | 24B             |
| 1-1/2        | X480B   | 15/16   | 2-1/4   | 10-29/32 | 24B             |
| 1-9/16       | X500B   | 15/16   | 2-21/64 | 10-29/32 | 24B             |
| 1-5/8        | X520B   | 1       | 2-27/64 | 11       | 24B             |
| 1-11/16      | X540B   | 1-1/16  | 2-39/64 | 13-19/64 | 36B             |
| 1-3/4        | X560B   | 1-1/16  | 2-39/64 | 13-19/64 | 36B             |
| 1-13/16      | X580B   | 1-1/8   | 2-3/4   | 13-13/32 | 36B             |
| 1-7/8        | X600B   | 1-1/8   | 2-3/4   | 13-13/32 | 36B             |
| 2            | X640B   | 1-1/4   | 2-31/32 | 13-1/2   | 36B             |
| 2-1/16       | X660B   | 1-1/4   | 2-31/32 | 13-1/2   | 36B             |
| 2-3/16       | X700B   | 1-5/16  | 3-15/64 | 13-39/64 | 36B             |
| 2-1/4        | X720B   | 1-5/16  | 3-15/64 | 13-39/64 | 36B             |
| 2-3/8        | X760B   | 1-3/8   | 3-13/32 | 13-45/64 | 36B             |
| 2-9/16       | X820B   | 1-1/2   | 3-21/32 | 13-51/64 | 36B             |
| 2-5/8        | X840B   | 1-1/2   | 3-3/4   | 13-29/32 | 36B             |
| 2-3/4        | X880B   | 1-5/8   | 3-15/16 | 14       | 36B             |
| 2-15/16      | X940B   | 1-11/16 | 4-5/32  | 14-7/64  | 36B             |
| 3-1/8        | X1000B  | 1-3/4   | 4-13/32 | 14-13/64 | 36B             |



• Read safety precautions on pages W1 to W4

## COMBINATION T- AND L-SHAPED WRENCHES

- Ergonomic soft grip handle provides comfort during repetitive tasks
- Deliver superior turning power
- Allow maximum pressure to be applied when loosening difficult fasteners with both “T” and “L” applications
- Blades are constructed from high-strength steel and hardened for durability

- Blade tips are black oxide coated to prevent chipping and to help maintain a secure fastener engagement
- Short blade provides maximum torque for tight quarters
- Long blade promotes quick fastener turning in difficult-to-access situations
- Hole in the handle for hanging tool or attaching a tether
- Color-coded handles identify metric and inch sizes at a glance



AWSGM800

### Hex/Soft Grip Handle, mm

Set Contains:

AWSGM800

| mm  | Blue Handle | T-Length, mm | Length, mm |   |
|-----|-------------|--------------|------------|---|
| 2   | AWSGM2      | 95           | 152        | • |
| 2.5 | AWSGM2.5A   | 95           | 152        | • |
| 3   | AWSGM3A     | 98           | 152        | • |
| 4   | AWSGM4A     | 98           | 187        | • |
| 5   | AWSGM5A     | 117          | 187        | • |
| 6   | AWSGM6      | 117          | 246        | • |
| 8   | AWSGM8A     | 117          | 246        | • |
| 10  | AWSGM10A    | 124          | 248        | • |

Set includes storage tray.



AWBSGM800

### Ball Hex/Soft Grip Handle, mm

Set Contains:

AWBSGM800

| mm  | Blue Handle | T-Length, mm | Length, mm |   |
|-----|-------------|--------------|------------|---|
| 2   | AWBSGM2     | 95           | 152        | • |
| 2.5 | AWBSGM25    | 95           | 152        | • |
| 3   | AWBSGM3     | 98           | 152        | • |
| 4   | AWBSGM4     | 98           | 187        | • |
| 5   | AWBSGM5A    | 117          | 187        | • |
| 6   | AWBSGM6     | 117          | 246        | • |
| 8   | AWBSGM8     | 117          | 246        | • |
| 10  | AWBSGM10    | 124          | 248        | • |

Set includes storage tray.



AWSG800

### Hex/Soft Grip Handle, inches

Set Contains:

AWSG800

|      | Red Handle | T-Length, inches | Length, inches |   |
|------|------------|------------------|----------------|---|
| 3/32 | AWSG06A    | 3-7/8            | 6              | • |
| 7/64 | AWSG07     | 3-7/8            | 6              | • |
| 1/8  | AWSG08     | 3-7/8            | 6              | • |
| 9/64 | AWSG09     | 3-7/8            | 6              | • |
| 5/32 | AWSG10     | 3-7/8            | 7-3/8          | • |
| 3/16 | AWSG12A    | 4-3/4            | 7-3/4          | • |
| 7/32 | AWSG14     | 4-3/4            | 7-3/4          | • |
| 1/4  | AWSG16A    | 4-3/4            | 9-5/8          | • |
| 5/16 | AWSG20A    | 4-3/4            | 9-5/8          |   |
| 3/8  | AWSG24A    | 4-3/4            | 9-5/8          |   |

Set includes storage tray.



AWBSG800

### Ball Hex/Soft Grip Handle, inches

Set Contains:

AWBSG800

|      | Red Handle | T-Length, inches | Length, inches |   |
|------|------------|------------------|----------------|---|
| 3/32 | AWBSG06A   | 3-7/8            | 6              | • |
| 7/64 | AWBSG07    | 3-7/8            | 6              | • |
| 1/8  | AWBSG08    | 3-7/8            | 6              | • |
| 9/64 | AWBSG09    | 3-7/8            | 6              | • |
| 5/32 | AWBSG10    | 3-7/8            | 7-3/8          | • |
| 3/16 | AWBSG12    | 4-3/4            | 7-3/4          | • |
| 7/32 | AWBSG14    | 4-3/4            | 7-3/4          | • |
| 1/4  | AWBSG16    | 4-3/4            | 9-5/8          | • |
| 5/16 | AWBSG20    | 4-3/4            | 9-5/8          |   |
| 3/8  | AWBSG24A   | 4-3/4            | 9-5/8          |   |

Set includes storage tray.

# COMBINATION T- AND L-SHAPED WRENCHES

## ★ TORX®/Soft Grip Handle

Set Contains:

AWSGT800

| #   | Green Handle | Length, inches | T-Length, inches |   |
|-----|--------------|----------------|------------------|---|
| T6  | AWSGT6       | 6              | 3-7/8            |   |
| T7  | AWSGT7       | 6              | 3-7/8            |   |
| T8  | AWSGT8A      | 6              | 3-7/8            |   |
| T9  | AWSGT9A      | 6              | 3-7/8            |   |
| T10 | AWSGT10A     | 6              | 3-7/8            | • |
| T15 | AWSGT15      | 7-3/8          | 3-7/8            | • |
| T20 | AWSGT20A     | 7-3/8          | 3-7/8            | • |
| T25 | AWSGT25      | 7-5/8          | 4-3/4            | • |
| T27 | AWSGT27      | 7-5/8          | 4-3/4            | • |
| T30 | AWSGT30      | 9-5/8          | 4-3/4            | • |
| T40 | AWSGT40      | 9-5/8          | 4-3/4            | • |
| T45 | AWSGT45      | 9-3/4          | 4-3/4            | • |
| T50 | AWSGT50      | 9-3/4          | 4-3/4            |   |

Set includes storage tray.



AWSGT800

## ⚙ TORX Plus®/Special Application

| Size | Green Handle | T-Length, inches | Length, inches |
|------|--------------|------------------|----------------|
| T20  | AWSGTRP20    | 3-7/8            | 10-1/2         |
| T25  | AWSGTRP25    | 4-3/4            | 10-1/2         |



AWSGTRP20

## ⚙ TORX®/Tamper-Proof

Set Contains:

AWSGTP800

| #   | Stock No. |   |
|-----|-----------|---|
| T6  | AWSGTP6   |   |
| T7  | AWSGTP7   |   |
| T8  | AWSGTP8   |   |
| T9  | AWSGTP9   |   |
| T10 | AWSGTP10  | • |
| T15 | AWSGTP15  | • |
| T20 | AWSGTP20  | • |
| T25 | AWSGTP25  | • |
| T27 | AWSGTP27  | • |
| T30 | AWSGTP30  | • |
| T40 | AWSGTP40  | • |
| T45 | AWSGTP45  | • |
| T50 | AWSGTP50  |   |

Set includes storage tray.



AWSGTP10



AWSGTP800

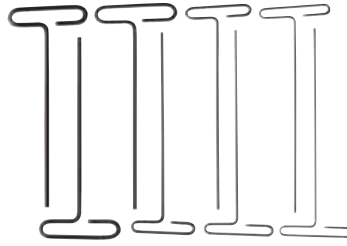


• Plastic handle does not protect against electric shock  
• Read safety precautions on pages W1 to W4

# T-SHAPE



AWMCG1600B



GAW1900A



AWCG1600B

## Hex/T-Handle, mm

AWMCG1600B  
Set Contains:

| mm  | Blue Handle<br>152 mm Length |   |
|-----|------------------------------|---|
| 2.5 | AWMCG16025B                  | • |
| 2   | AWMCG1602B                   | • |
| 3   | AWMCG1603B                   | • |
| 4   | AWMCG1604B                   | • |
| 5   | AWMCG1605B                   | • |
| 6   | AWMCG1606B                   | • |
| 8   | AWMCG1608B                   | • |
| 10  | AWMCG1610B                   | • |

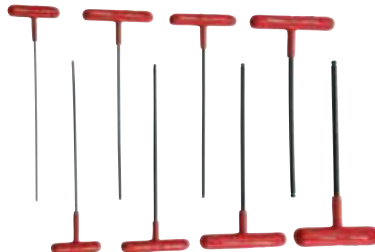
## Hex/T-Handle, inches

GAW1900A  
AWCG1600B  
Set Contains:

|      | Standard Handle<br>9" Length | Red Handle<br>6" Length |   |   |
|------|------------------------------|-------------------------|---|---|
| 3/32 | GAW1906                      | AWCG1606B               | • | • |
| 7/64 | GAW1907                      | AWCG1607B               | • | • |
| 1/8  | GAW1908                      | AWCG1608B               | • | • |
| 9/64 | GAW1909                      | AWCG1609B               | • | • |
| 5/32 | GAW1910                      | AWCG1610B               | • | • |
| 3/16 | GAW1912                      | AWCG1612B               | • | • |
| 7/32 | GAW1914                      | AWCG1614B               | • | • |
| 1/4  | GAW1916                      | AWCG1616B               | • | • |
| 5/16 | GAW1920                      | AWCG1620B               | • |   |
| 3/8  | GAW1924                      | AWCG1624B               | • |   |



AWBMCG1600



AWBCG1600



AWCGT500

## Ball Hex/T-Handle, mm

AWBMCG1600  
Set Contains:

| mm  | Blue Handle<br>228 mm Length |   |
|-----|------------------------------|---|
| 2   | AWBMCG1602                   | • |
| 2.5 | AWBMCG16025                  | • |
| 3   | AWBMCG1603                   | • |
| 4   | AWBMCG1604                   | • |
| 5   | AWBMCG1605                   | • |
| 6   | AWBMCG1606                   | • |
| 8   | AWBMCG1608                   | • |
| 10  | AWBMCG1610                   | • |

Set includes storage tray.

## Ball Hex/T-Handle, inches

AWBCG1600  
Set Contains:

|      | Red Handle<br>9" Length |   |
|------|-------------------------|---|
| 3/32 | AWBCG1606               | • |
| 7/64 | AWBCG1607               | • |
| 1/8  | AWBCG1608               | • |
| 9/64 | AWBCG1609               | • |
| 5/32 | AWBCG1610               | • |
| 3/16 | AWBCG1612               | • |
| 7/32 | AWBCG1614               | • |
| 1/4  | AWBCG1616               | • |
| 5/16 | AWBCG1620               |   |
| 3/8  | AWBCG1624               |   |

## TORX®/T-Handle

AWCGT500  
Set Contains:

| #   | Green Handle<br>6" Length |   |
|-----|---------------------------|---|
| T7  | AWCGT7                    |   |
| T8  | AWCGT8                    | • |
| T10 | AWCGT10                   | • |
| T15 | AWCGT15                   | • |
| T20 | AWCGT20                   | • |
| T25 | AWCGT25                   | • |
| T27 | AWCGT27                   |   |
| T30 | AWCGT30                   |   |
| T40 | AWCGT40                   |   |
| T45 | AWCGT45                   |   |

**Wrench Stands**

**AWSTAND Storage Stand for L-Shaped/T-Shaped Wrenches**

- Mounting holes on top and bottom of stand provide many mounting locations
- Another AWSTAND can be added for increased storage options
- Stands can mount to a Slots-N-Dots™ Plus personal workcenter or lie flat on top of tool box
- Stand holds the following wrench styles:
  - L- or T-shaped SAE hex 1/16–3/8" (excludes AWSG and AWBSBG series)
  - L- or T-shaped metric hex 2–10 mm (excludes AWSGM and AWBSBGM series)
  - L- or T-shaped TORX® T6 T50 (excludes AWSGT and AWSGTPT series)
- Metric or TORX® on one stand
- SAE and metric on one stand
- Metric and SAE ball wrenches

Tools not included with stand.

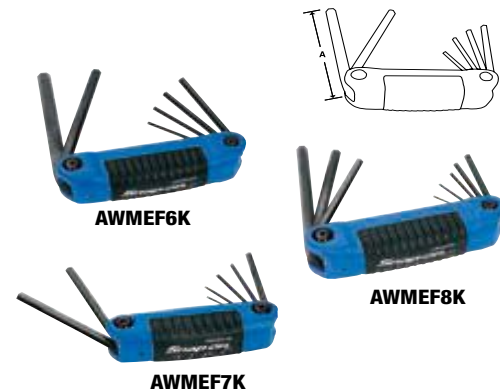


AWSTAND

**FOLDING SETS**

**Hex, mm**

| mm  | AWMEF7K | AWMEF8K | AWMEF6K |
|-----|---------|---------|---------|
|     | A       | A       | A       |
| 1.5 | 45.7    | —       | —       |
| 2   | 50.8    | 50.8    | —       |
| 2.5 | 55.9    | 55.9    | —       |
| 3   | 61.0    | 61.0    | 83.8    |
| 4   | 66.0    | 66.0    | 88.9    |
| 5   | 78.7    | 78.7    | 96.5    |
| 6   | 83.8    | 96.5    | 101.6   |
| 7   | —       | 106.7   | —       |
| 8   | —       | 121.9   | 121.9   |
| 10  | —       | —       | 129.5   |



**AWMEF10K 10 pc Metric Folding Hex Key Set**



**Hex, inches**

|      | AWEF6K |      | AWEF9K |
|------|--------|------|--------|
|      | A      |      | A      |
| 5/32 | 2.7    | 0.05 | 1.8    |
| 3/16 | 3.3    | 1/16 | 1.9    |
| 7/32 | 3.5    | 5/64 | 2.0    |
| 1/4  | 3.7    | 3/32 | 2.1    |
| 5/16 | 4.8    | 7/64 | 2.3    |
| 3/8  | 5.1    | 1/8  | 2.4    |
|      |        | 9/64 | 2.6    |
|      |        | 5/32 | 2.7    |
|      |        | 3/16 | 2.9    |

**TORX®**

| #   | AWTEF8K |
|-----|---------|
|     | A       |
| T8  | 2.4     |
| T10 | 2.7     |
| T15 | 3.0     |
| T20 | 3.2     |
| T25 | 3.4     |
| T27 | 3.5     |
| T30 | 3.7     |
| T40 | 3.9     |

**Ball Hex, inches**

|      | AWEFBH9K |
|------|----------|
|      | A        |
| 5/64 | 2.0      |
| 3/32 | 2.1      |
| 7/64 | 2.3      |
| 1/8  | 2.4      |
| 9/64 | 2.6      |
| 5/32 | 2.7      |
| 3/16 | 2.9      |
| 7/32 | 3.5      |
| 1/4  | 3.7      |

**AWEF11K 11 pc SAE Folding Hex Key Set**

**AWTEF11K 11 pc TORX® Folding Hex Key Set**

**AWEFBH11K 11 pc SAE Folding Hex Ball Key Set**

**AWCPEF16K 16 pc Metric/SAE Folding Combination Hex Key Set**

- Set includes (16 pc) AWEF9K hex set (.050–3/16") and AWMEF7K metric hex set (1.5–6 mm)

**AWMEFB10K 10 pc Metric Folding Hex Ball Key Set**



- Plastic handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

## FOLDING SETS



AWHD8K



AWEF6M6K



AWTEFBH11K

### Combination Folding Key Sets

#### AWHD8K 8 pc TORX®/Hex Folding Key Set

- Includes two TORX® sizes (T27, T40) and six hex sizes (5/32", 3/16", 7/32", 1/4", 5/16" and 3/8")
- Fits a wide range of Harley-Davidson® motorcycles

#### AWEF6M6K 12 pc Metric/SAE Folding Hex Key Set

- Includes (12) folding hex keys (SAE 5/64, 3/32, 7/64, 1/8, 9/64 and 5/32") (metric 1.5, 2, 2.5, 3, 4 and 5 mm)
- Turn-and-flip feature eliminates the need for constant removal of the tool to reposition it in the screw head when working next to obstructions
- 90° stops turn the tool into a speed wrench
- Hex sizes molded into the storage case for easy identification of each hex
- Flutes in storage case allow for easy selection
- Access the blades from the top or bottom, eliminating the need to unstack the blades
- High-torque steel is 20% stronger and has twice the wear resistance of standard grades of steel
- Handle is 40% stronger than steel cases
- Corrosion-resistant finish is five times more resistant than the competition

### TORX® Ball Hex

#### AWTEFBH11K 11 pc TORX® Folding Ball Hex Key Set

- New tri-fold design allows for up to five additional keys in the set, without increased size of housing
- Impact-modified nylon housing is designed to minimize the loss of torque transfer to hex keys and help prevent damage if dropped
- Black-oxide finish for corrosion protection
- Ball-end allows fasteners to be turned continuously without removing the key to reposition
- Includes (11) folding hex keys (T8–T50)

#### AWTEFTP11K 11 pc TORX® Tamper-Proof Folding Key Set

## L-SHAPED



AWBPH13



AWBS13



AWBXL13



BHS13A



BHS7A



DBHS13

### Ball Hex Key Sets

Ball hex allows up to 25° angle entry. Made from high strength steel.

#### AWBPH13 13 pc SAE L-Shaped Ball Hex Wrench Set

- Screw-holding tip holds fastener to tool for delicate installations
- Includes 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" sizes
- Includes plastic index

#### AWBS13 13 pc SAE L-Shaped Stubby Ball Hex Wrench Set

- Stubby length for access to tight quarters
- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" sizes
- Includes plastic index

#### AWBXL13 13 pc SAE L-Shaped Extra-Long Ball Hex Wrench Set

- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" sizes
- Includes plastic index

#### BHS13A 13 pc SAE L-Shaped Ball Hex Wrench Set

- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, and 3/8" sizes
- Includes plastic index

#### BHS7A 7 pc SAE L-Shaped Ball Hex Wrench Set

- Includes 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 and 3/16" sizes
- Includes plastic index

#### DBHS13 13 pc SAE L-Shaped Double Ball Hex Wrench Set

- 100° angle bend allows for access to fasteners a 90° stubby key cannot reach
- 100° angle provides a ±10° range of motion, or full 20°, creating clearance to help prevent "knuckle-busting"
- Ball hex on short-arm has a thicker "neck" than traditional ball hex designs, providing up to 50% more torque on the long arm
- Long arm utilizes an XL-pattern to access fasteners in deep recesses, with standard ball-hex tip
- Includes: 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8" sizes
- Includes plastic index



### AWBML9 9 pc Metric Extra-Long L-Shaped Ball Hex Wrench Set

- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

### AWMBPH9 9 pc Metric L-Shaped Ball Hex Wrench Set

- Screw-holding tip holds fastener to tool for delicate installations
- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

### AWMBS9 9 pc Metric Stubby L-Shaped Ball Hex Wrench Set

- Stubby length for access in tight quarters
- Includes: 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

### BHM9A 9 pc Metric L-Shaped Ball Hex Wrench Set

- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index

### DBHM9 9 pc Metric L-Shaped Double Ball Wrench Set

- 100° angle bend allows for access to fasteners a 90° stubby key cannot reach
- Ball hex on short-arm has a thicker “neck” than traditional ball hex designs, providing up to 50% more torque on the long arm
- Includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes
- Includes plastic index



AWBML9



AWMBPH9



AWMBS9



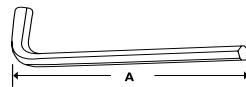
BHM9A



DBHM9



AWM110DHK



AW1013DK

### Hex, mm, Zinc

Set Contains:

AWM140DK\*  
AWM110DK\*  
AWM110DHK\*\*

|                 | Stock No. | mm    | A     |   |   |
|-----------------|-----------|-------|-------|---|---|
| Standard Length | AWM2D     | 2     | 47.7  | • | • |
|                 | AWM2-1/2D | 2.5   | 52.0  | • | • |
|                 | AWM3D     | 3     | 58.6  | • | • |
|                 | AWM4D     | 4     | 65.6  | • | • |
|                 | AWM5D     | 5     | 75.6  | • | • |
|                 | AWM6D     | 6     | 82.2  | • | • |
|                 | AWM7D     | 7     | 92.4  | • | • |
|                 | AWM8D     | 8     | 99.2  | • | • |
|                 | AWM9D     | 9     | 105.1 | • | • |
|                 | AWM10D    | 10    | 111.4 | • | • |
|                 | AWM12D    | 12    | 139.3 | • | • |
|                 | AWM14D    | 14    | 138.8 | • |   |
|                 | AWM17D    | 17    | 167.2 | • |   |
| AWM19D          | 19        | 193.6 | •     |   |   |
| Long            | AWML1.5D  | 1.5   | 77.7  |   |   |
|                 | AWML2D    | 2     | 83.0  |   |   |
|                 | AWML2.5D  | 2.5   | 89.8  |   |   |
|                 | AWML3D    | 3     | 100.0 |   |   |
|                 | AWML4D    | 4     | 107.0 |   |   |
|                 | AWML5D    | 5     | 118.5 |   |   |
|                 | AWML6D    | 6     | 141.0 |   |   |
|                 | AWML8D    | 8     | 161.5 |   |   |
|                 | AWML10D   | 10    | 172.0 |   |   |
|                 | AWML12D   | 12    | 193.6 |   |   |

\*Set includes C1209 storage bag.  
\*\*Set includes metal index.

### Hex, inches, Zinc

Set Contains:

AW1020DK\*  
AW1015DK\*  
AW1013DK\*  
AW1015DHK\*\*

|  | Stock No. | Hex   | A      |   |   |   |   |
|--|-----------|-------|--------|---|---|---|---|
|  | AW028D    | 0.028 | 1-1/4  | • | • |   | • |
|  | AW035D    | 0.035 | 1-5/16 | • | • |   | • |
|  | AW050D    | 0.050 | 1-3/4  | • | • | • | • |
|  | AW2D      | 1/16  | 1-3/4  | • | • | • | • |
|  | AW2-1/2D  | 5/64  | 1-7/8  | • | • | • | • |
|  | AW3D      | 3/32  | 2      | • | • | • | • |
|  | AW3-1/2D  | 7/64  | 2-1/8  | • | • | • | • |
|  | AW4D      | 1/8   | 2-1/4  | • | • | • | • |
|  | AW4-1/2D  | 9/64  | 2-3/8  | • | • | • | • |
|  | AW5D      | 5/32  | 2-1/2  | • | • | • | • |
|  | AW6D      | 3/16  | 2-3/4  | • | • | • | • |
|  | AW7D      | 7/32  | 3      | • | • | • | • |
|  | AW8D      | 1/4   | 3-1/4  | • | • | • | • |
|  | AW10D     | 5/16  | 3-3/4  | • | • | • | • |
|  | AW12D     | 3/8   | 4-1/4  | • | • | • | • |
|  | AW14D     | 7/16  | 4-3/4  | • |   |   |   |
|  | AW16D     | 1/2   | 5-1/4  | • |   |   |   |
|  | AW18D     | 9/16  | 5-3/4  | • |   |   |   |
|  | AW20D     | 5/8   | 6-1/4  | • |   |   |   |
|  | AW24D     | 3/4   | 7-1/4  | • |   |   |   |

\*Set includes C1209 storage bag.  
\*\*Set includes metal index.



- Do not use “cheater bars” on handles
- Read safety precautions on pages W1 to W4

# L-SHAPED



AWL1010DHK



MS1015KA

## Hex/Long, inches, Zinc

AWL1010DK\*  
AWL1010DK\*\*

| Stock No. |      | A     |   |   |
|-----------|------|-------|---|---|
| AWL3D     | 3/32 | 3-1/8 | • | • |
| AWL3-1/2D | 7/64 | 3-1/2 | • | • |
| AWL4D     | 1/8  | 3-3/4 | • | • |
| AWL4-1/2D | 9/64 | 4     | • | • |
| AWL5D     | 5/32 | 4-1/8 | • | • |
| AWL6D     | 3/16 | 4-1/2 | • | • |
| AWL7D     | 7/32 | 4-7/8 | • | • |
| AWL8D     | 1/4  | 5-1/4 | • | • |
| AWL10D    | 5/16 | 6     | • | • |
| AWL12D    | 3/8  | 6-3/4 | • | • |
| AWL14D    | 7/16 | 7-1/2 |   |   |
| AWL16D    | 1/2  | 8-1/4 |   |   |
| AWL18D    | 9/16 | 9     |   |   |
| AWL20D    | 5/8  | 9-3/4 |   |   |

\*Set includes storage bag.  
\*\*Set includes metal index.



AWMG9

## Hex, mm, Gold Finish

AWMG9

| Stock No. |     |   |   |
|-----------|-----|---|---|
| AWMG9-1   | 1.5 | • | • |
| AWMG9-2   | 2   | • | • |
| AWMG9-3   | 2.5 | • | • |
| AWMG9-4   | 3   | • | • |
| AWMG9-5   | 4   | • | • |
| AWMG9-6   | 5   | • | • |
| AWMG9-7   | 6   | • | • |
| AWMG9-8   | 8   | • | • |
| AWMG9-9   | 10  | • | • |



AWTPH8

## TORX®/Screw Holding Tip

AWTPH8

| Stock No. |     |   |   |
|-----------|-----|---|---|
| AWTPHT9   | T9  | • | • |
| AWTPHT10  | T10 | • | • |
| AWTPHT15  | T15 | • | • |
| AWTPHT20  | T20 | • | • |
| AWTPHT25  | T25 | • | • |
| AWTPHT27  | T27 | • | • |
| AWTPHT30  | T30 | • | • |
| AWTPHT40  | T40 | • | • |

## Multi-Spline, Industrial

MS1015KA\*

| Stock No. | A | B    |   |
|-----------|---|------|---|
| MS2A      | 4 | .033 | • |
| MS3A      | 4 | .048 | • |
| MS4A      | 6 | .060 | • |
| MS5A      | 4 | .069 | • |
| MS6A      | 4 | .076 | • |
| MS7A      | 6 | .072 | • |
| MS8A      | 6 | .096 | • |
| MS10A     | 6 | .110 | • |
| MS16A     | 6 | .144 | • |
| MS20A     | 6 | .183 | • |
| MS24A     | 6 | .216 | • |
| MS28A     | 6 | .251 | • |
| MS32A     | 6 | .291 | • |
| MS40A     | 6 | .372 | • |
| MS48A     | 6 | .454 | • |

\*Set includes storage bag.



AWS13

## Hex, SAE, Natural Finish

AWS13

| Stock No. |      |   |   |
|-----------|------|---|---|
| AWS13-1   | 1/20 | • | • |
| AWS13-2   | 1/16 | • | • |
| AWS13-3   | 5/64 | • | • |
| AWS13-4   | 3/32 | • | • |
| AWS13-5   | 7/64 | • | • |
| AWS13-6   | 1/8  | • | • |
| AWS13-7   | 9/64 | • | • |
| AWS13-8   | 5/32 | • | • |
| AWS13-9   | 3/16 | • | • |
| AWS13-10  | 7/32 | • | • |
| AWS13-11  | 1/4  | • | • |
| AWS13-12  | 5/16 | • | • |
| AWS13-13  | 3/8  | • | • |



AWTR8

## TORX®/Tamper-Resistant

AWTR8

| Stock No. |      |   |   |
|-----------|------|---|---|
| AWTR8-1   | TR9  | • | • |
| AWTR8-2   | TR10 | • | • |
| AWTR8-3   | TR15 | • | • |
| AWTR8-4   | TR20 | • | • |
| AWTR8-5   | TR25 | • | • |
| AWTR8-6   | TR27 | • | • |
| AWTR8-7   | TR30 | • | • |
| AWTR8-8   | TR40 | • | • |



AWMXL10

Hex/Extra-Long, mm

Set Contains:

| Stock No.   | mm  | A     | B    |   |
|-------------|-----|-------|------|---|
| AWMXL10-1.5 | 1.5 | 91.5  | 15   | • |
| AWMXL10-2   | 2   | 102   | 17.5 | • |
| AWMXL10-2.5 | 2.5 | 114.5 | 20   | • |
| AWMXL10-3   | 3   | 129   | 22   | • |
| AWMXL10-4   | 4   | 146   | 26   | • |
| AWMXL10-5   | 5   | 165   | 32   | • |
| AWMXL10-6   | 6   | 132   | 32.5 | • |
| AWMXL10-7   | 7   | 160   | 37   | • |
| AWMXL10-8   | 8   | 203   | 43   | • |
| AWMXL10-10  | 10  | 223   | 49   | • |



AWT100KA

TORX®

Set Contains:

| Stock No. | #   | A    | B     |   |
|-----------|-----|------|-------|---|
| AWT8A     | T8  | .137 | 1-7/8 |   |
| AWT9A     | T9  | .148 | 1-7/8 |   |
| AWT10A    | T10 | .162 | 2     | • |
| AWT15A    | T15 | .194 | 2-1/8 | • |
| AWT20A    | T20 | .228 | 2-1/4 | • |
| AWT25A    | T25 | .262 | 2-3/8 | • |
| AWT27A    | T27 | .295 | 2-1/2 | • |
| AWT30A    | T30 | .218 | 2-3/4 | • |
| AWT40A    | T40 | .262 | 3     | • |
| AWT45A    | T45 | .430 | 3-5/8 | • |
| AWT50A    | T50 | .348 | 3-3/4 | • |
| AWT55A    | T55 | .442 | 4-1/4 | • |



AWTXL8

TORX®/Extra-Long

Set Contains:

| Stock No.  | Hex Diameter Size (TORX®) | A     | B    |   |
|------------|---------------------------|-------|------|---|
| AWTXL8-T9  | T9                        | 4     | 0.74 | • |
| AWTXL8-T10 | T10                       | 4.25  | 0.81 | • |
| AWTXL8-T15 | T15                       | 4.6   | 0.88 | • |
| AWTXL8-T20 | T20                       | 4.95  | 0.94 | • |
| AWTXL8-T25 | T25                       | 5.61  | 1.03 | • |
| AWTXL8-T27 | T27                       | 6.02  | 1.18 | • |
| AWTXL8-T30 | T30                       | 6.496 | 1.26 | • |
| AWTXL8-T40 | T40                       | 7     | 1.46 | • |



DBT7

Double Ball TORX® Key

Set Contains:

| Stock No. | #   |  |   |
|-----------|-----|--|---|
| DBT10     | T10 |  | • |
| DBT15     | T15 |  | • |
| DBT20     | T20 |  | • |
| DBT25     | T25 |  | • |
| DBT27     | T27 |  | • |
| DBT30     | T30 |  | • |
| DBT40     | T40 |  | • |



BLPPKM5

Hex Pivot Head, mm (Blue-Point®)

Set Contains:

| Stock No.    | Description                                 |   |  |   |
|--------------|---|---|--|---|
| BLPPKM5-4    | 4 mm Metric Pivot Head Wrench (Blue-Point®) | • |  |   |
| BLPPKM5-5    | 5 mm Metric Pivot Head Wrench (Blue-Point®) | • |  |   |
| BLPPKM5-6    | 6 mm Metric Pivot Head Wrench (Blue-Point®) | • |  |   |
| BLPPKM5-7    | 7 mm Metric Pivot Head Wrench (Blue-Point®) | • |  |   |
| BLPPKM5-8    | 8 mm Metric Pivot Head Wrench (Blue-Point®) | • |  |   |
| BLPPKS5-1/4  | 1/4" SAE Pivot Head Wrench (Blue-Point®)    | • |  |   |
| BLPPKS5-3/16 | 3/16" SAE Pivot Head Wrench (Blue-Point®)   | • |  |   |
| BLPPKS5-3/8  | 3/8" SAE Pivot Head Wrench (Blue-Point®)    | • |  |   |
| BLPPKS5-5/16 | 5/16" SAE Pivot Head Wrench (Blue-Point®)   | • |  |   |
| BLPPKS5-7/32 | 7/32" SAE Pivot Head Wrench (Blue-Point®)   | • |  |   |
| BLPPKT5-T30  | T30 TORX® Pivot Head Wrench (Blue-Point®)   |   |  | • |
| BLPPKT5-T40  | T40 TORX® Pivot Head Wrench (Blue-Point®)   |   |  | • |
| BLPPKT5-T45  | T45 TORX® Pivot Head Wrench (Blue-Point®)   |   |  | • |
| BLPPKT5-T50  | T50 TORX® Pivot Head Wrench (Blue-Point®)   |   |  | • |

| Stock No.   | Description                         |  |  |   |
|-------------|-------------------------------------|--|--|---|
| BLPPKT5-T47 | T47 Pivot Head Wrench (Blue-Point®) |  |  | • |

T47 is not a TORX® licensed product.



AWXL13

Hex, Extra-Long, SAE

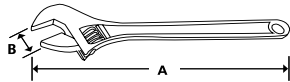
Set Contains:

| Stock No.   | #    | A    | B    |   |
|-------------|------|------|------|---|
| AWXL13-050  | 0.05 | 3.1  | 0.58 | • |
| AWXL13-1/16 | 1/16 | 3.4  | 0.63 | • |
| AWXL13-1/4  | 1/4  | 6.7  | 1.4  | • |
| AWXL13-1/8  | 1/8  | 4.6  | 0.88 | • |
| AWXL13-3/16 | 3/16 | 5.4  | 1.1  | • |
| AWXL13-3/32 | 3/32 | 4    | 0.74 | • |
| AWXL13-3/8  | 3/8  | 8.2  | 1.8  | • |
| AWXL13-5/16 | 5/16 | 7.4  | 1.6  | • |
| AWXL13-5/32 | 5/32 | 5.3  | 1    | • |
| AWXL13-5/64 | 5/64 | 3.7  | 0.69 | • |
| AWXL13-7/32 | 7/32 | 5.85 | 1.3  | • |
| AWXL13-7/64 | 7/64 | 4.25 | 0.81 | • |
| AWXL13-9/64 | 9/64 | 4.95 | 0.94 | • |



• Do not use "cheater bars" on handles  
• Read safety precautions on pages W1 to W4

## ADJUSTABLE



FADH704B

### Flank Drive® Plus Adjustable/Cushion Handle

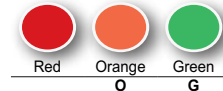
- Flank Drive® Plus provides up to 62% more turning power, allowing for more torque to the handle and reducing fastener wear
- Durable finish provides corrosion resistance
- High-strength alloy steel provides greater wrench strength and longer tool life

| Stock No. | A inches (mm) | B inches (mm) | Set Contains: |   |
|-----------|---------------|---------------|---------------|---|
| FADH6B    | 6 (152)       | 3/4 (19)      |               | • |
| FADH8B    | 8 (203)       | 15/16 (24)    | •             | • |
| FADH10B   | 10 (254)      | 1-1/8 (29)    |               | • |
| FADH12B   | 12 (304)      | 1-5/16 (33)   | •             | • |

ASME® Standard

Sets include storage tray.

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



AD704B



AD120A

### Adjustable

- Opposing fractional and metric quick sizing scales are provided for convenience
- High-strength alloy steel machined to exacting specs and precision heat treated for strength and durability
- Nickel-chrome finish helps protect against corrosion and speeds clean up

| Stock No. | A inches (mm) | B inches (mm) | Set Contains: |   |
|-----------|---------------|---------------|---------------|---|
| AD6B      | 6 (155)       | 25/32 (20)    |               | • |
| AD8B      | 8 (205)       | 1-1/16 (27)   | •             | • |
| AD10B     | 10 (255)      | 1-3/16 (30)   |               | • |
| AD12B     | 12 (305)      | 1-11/32 (34)  | •             | • |

ASME® B107.100

Sets include storage tray.

### AD120A 10" Adjustable Wrench



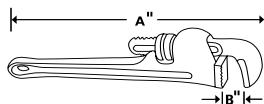
ADHW6A

### Wide-Mouth Adjustable/Cushion Handle

- Opens larger than standard adjustable wrench
- Longer jaws and slimline design for greater reach
- Metric and fractional scales for quick observation
- Adjustable moving jaw will not fall out, even when at max opening
- Elastomer handle is soft, insulates against cold and provides a nonslip surface
- ADHW6A opens as wide as an 8" adjustable wrench; ADHW8A opens as wide as a 10" adjustable wrench

| Stock No. | A        | B            |
|-----------|----------|--------------|
| ADHW6A    | 6 (152)  | 1-1/4 (32)   |
| ADHW8A    | 8 (203)  | 1-1/2 (38)   |
| ADHW10A   | 10 (254) | 1-3/4 (44.5) |
| ADHW12A   | 12 (305) | 2 (50.8)     |

ASME® B107.100



PW10C



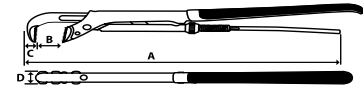
PWA10A

### Pipe Wrenches

| Stock No. Coated Handle | Stock No. Aluminum Handle | A  | B     |
|-------------------------|---------------------------|----|-------|
| PW6C                    | —                         | 6  | 3/4   |
| PW8C                    | —                         | 8  | 1     |
| PW10C                   | PWA10A                    | 10 | 1-1/2 |
| PW12C                   | —                         | 12 | 2     |
| PW14C                   | PWA14A                    | 14 | 2     |
| PW18C                   | PWA18A                    | 18 | 2-1/2 |
| PW24C                   | PWA24A                    | 24 | 3     |
| PW36C                   | PWA36A                    | 36 | 5     |

**Pliers Wrenches**

- Inwardly angled teeth (fine teeth at back of jaw, coarse teeth at front of jaw) for a stronger grip
- Quick adjustment of grip width
- Built-in guard against unthreading
- Soft, warm to the touch, high-friction handle surfaces with a strong, stable core



Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

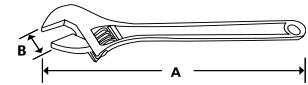
| Stock No. | A      | B      | C     | D      | Weight, lb |
|-----------|--------|--------|-------|--------|------------|
| PWZ0      | 8-3/16 | 1-1/2  | 5/16  | 9/16   | 1          |
| PWZ1      | 12-5/8 | 1-3/4  | 1/2   | 3/4    | 1-5/8      |
| PWZ2      | 17     | 2-1/2  | 5/8   | 13/16  | 2-1/2      |
| PWZ3      | 21-1/2 | 3-1/2  | 3/4   | 1      | 6-3/8      |
| PWZ4*     | 28-5/8 | 4-5/8  | 1-1/2 | 1-5/16 | 12         |
| PWZ5*     | 41-3/4 | 6-5/16 | 1-1/2 | 1-3/8  | 17         |

\*Only available in Red

**ADJUSTABLE (Blue-Point®)**

**Standard, Industrial (Blue-Point®)**

- Inch and metric scales on fixed jaw indicate wrench opening
- Fixed jaw and handle forged in one piece to ensure maximum strength
- Wrench is balanced to minimize wrist stress
- Hole in the handle end for a tether or hanging



Set Contains:

| Stock No. | A inches (mm) | B inches (mm) | BLPADJ703 | BLPADJ404 |
|-----------|---------------|---------------|-----------|-----------|
| GAJ4A     | 4 (108)       | 1/2 (13)      |           |           |
| GAJ6A     | 6 (160)       | 1 (25.4)      |           | •         |
| GAJ8A     | 8 (210)       | 1-1/8 (29)    |           | •         |
| GAJ10A    | 10 (260)      | 1-9/32 (33)   |           | •         |
| GAJ12A    | 12 (310)      | 1-1/2 (38)    |           | •         |
| GAJ15A    | 15 (385)      | 1-19/32 (43)  | •         |           |
| GAJ18A    | 18 (450)      | 2-1/16 (52)   | •         |           |
| GAJ24A    | 24 (610)      | 2-7/16 (62)   | •         |           |
| GAJS30*   | 30 (778)      | 3-11/32 (85)  |           |           |
| GAJS30A   | 30 (778)      | 3-11/32 (85)  |           |           |

\*Side-Adjustable nut style provides smoother operation, allows greater jaw opening and offers minimum jaw play ASME® B107.10

Sets include storage tray.



**Soft Grip, Industrial (Blue-Point®)**

Set Contains:

| Stock No. | A inches (mm) | B inches (mm) | BLPADJ404SG |
|-----------|---------------|---------------|-------------|
| GAJ6SG    | 6 (160)       | 1 (25.4)      | •           |
| GAJ8SG    | 8 (210)       | 1-1/8 (29)    | •           |
| GAJ10SG   | 10 (260)      | 1-9/32 (32.8) | •           |
| GAJ12SG   | 12 (310)      | 1-1/2 (38)    | •           |

Set includes storage tray.



BLPADJ404SG

**Aluminum (for AN fittings)**

- Securely tighten expensive AN fittings to reduce the risk of damage in aircraft, marine and industrial applications, as well as for race and show cars
- Machined from aluminum billet to exacting tolerances and made from quality heat-treated aluminum

| Stock No. | Overall Length, inches (mm) | Maximum Opening |
|-----------|-----------------------------|-----------------|
| ANADJ8A   | 8 (203)                     | AN #10 (1")     |



ANADJ8A



- Do not use "cheater bars" on handles
- Plastic handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

## SPECIAL APPLICATION



N6893B

### Valve Persuader

#### N6893B 1-1/4" Valve Persuader Wrench

- Persuader end provides extra leverage on valve wheels
- Hooks around valve stems and protrudes through spokes
- 15" long
- Opening is 1-1/4"

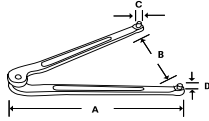


FRW10

### Extension Wrench

#### FRW10 Offset Extension Wrench

- 10" of reach to fastener
- 0° swing arc
- Allows impact and pneumatic wrenches to reach fasteners buried in assemblies
- Allows ratchet to swing free and clear where obstructions limit swing arc closer to the fastener



AFS482C

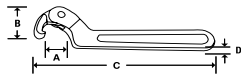
### Adjustable Face Pin Spanners

Used for servicing seal and packing nuts on hydraulic cylinders.

#### 6-3/8" Adjustable Face Pin Spanner Wrench

- Used for servicing seal and packing nuts on hydraulic cylinders

| Stock No. | A      | B | C    | D    |
|-----------|--------|---|------|------|
| AFS482C   | 6-3/8  | 2 | 3/16 | 5/32 |
| AFS483C   | 8-1/4  | 3 | 1/4  | 3/16 |
| AFS484C   | 10-3/8 | 4 | 5/16 | 1/4  |



304AHSKA

### Adjustable Hook Spanners

- Service collars, rings and bearings
- Single jaw and roll pin construction with industrial finish
- Assure that jaw hook is properly positioned when in use

#### C0412 Kit Bag (For 304AHSKA/304APSKA Sets)

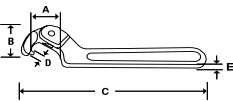
Set Contains:

304AHSKA

| Stock No. | A           | B    | C      | D     |   |
|-----------|-------------|------|--------|-------|---|
| AHS300C   | 3/4-2       | 1/8  | 6-3/8  | 11/32 | • |
| AHS301C   | 1-1/4-3     | 5/32 | 8-1/8  | 13/32 | • |
| AHS304C   | 2-4-3/4     | 3/16 | 11-3/8 | 15/32 | • |
| AHS307C   | 4-1/2-6-1/2 | 1/4  | 12-1/8 | 15/32 | • |



304APSKA



### Adjustable Pin Spanners

- Remove rings, collars and lock nuts
- Assure that jaw hook is properly aligned when in use

#### C0412 Kit Bag (For 304AHSKA/304APSKA Sets)

Set Contains:

304APSKA

| Stock No. | A           | B    | C      | D    | E     |   |
|-----------|-------------|------|--------|------|-------|---|
| APS351C   | 3/4-2       | 1/8  | 6-3/8  | 1/8  | 11/32 | • |
| APS357C   | 1-1/4-3     | 3/16 | 8-1/8  | 3/16 | 11/32 | • |
| APS363C   | 2-4-3/4     | 1/4  | 11-3/8 | 1/4  | 15/32 | • |
| APS366C   | 4-1/2-6-1/4 | 1/4  | 12-1/8 | 3/8  | 15/32 | • |

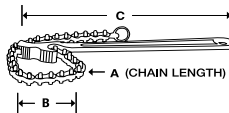
## SPECIAL APPLICATION (Blue-Point®)



CW12A



VGP18110



BLPSTWRKT

### Chain Wrenches (Blue-Point®)

| Stock No. | A  | B | C  | Replacement Chain |
|-----------|----|---|----|-------------------|
| CW12A     | 16 | 4 | 12 | CW12A-1           |
| CW15A     | 19 | 5 | 15 | CW15A-1           |
| CW24A     | 23 | 6 | 24 | CW24A-1           |

#### VGP18110 Locking Chain Wrench (Blue-Point®)

- Wraps around and holds irregular shaped objects like oil filters and mufflers
- Chain capacity: up to 6-9/32" (160 mm)
- Handle length: 9-27/32" (250 mm)

#### VGP181101 Replacement Chain, for VGP18110 (Blue-Point®)

#### VGP181102 Replacement Chain with cutters, for VGP18110 (Blue-Point®)

### Strap Wrenches (Blue-Point®)

- Adjusts to fit any circumference or irregular shape
- Will not scratch or damage surfaces
- Cushioned grip for maximum comfort
- Heavy-duty construction for longer life

#### BLPSTWR4 4" Strap Wrench (Blue-Point®)

- 4" max diameter

#### BLPSTWR6 6" Strap Wrench (Blue-Point®)

- 6" max diameter

#### BLPSTWRKT 2 pc Strap Wrench Set (4-6") (Blue-Point®)

- BLPSTWR4 and BLPSTWR6 (2 pc)

# TORQUE

WITH HIGH-STRENGTH ALLOYS, ALUMINUM, ENGINEERED COMPOSITES AND OTHER WEIGHT-REDUCING MATERIALS UTILIZED IN TODAY'S VEHICLES, ACCURATE TORQUE IS MORE CRITICAL THAN EVER. SNAP-ON® HAS EXPANDED OUR RANGE OF TORQUE MEASUREMENT TO HANDLE AN EVEN BROADER RANGE OF TORQUE AND ANGLE APPLICATIONS.

## PRECISELY THE QUALITY AND RELIABILITY YOU NEED, TOO.

Strict manufacturing makes our torque tools more dependable and durable. And features like progressive LEDs, large backlit LCD panels and multiple measurement and alert modes make our TechAngle® electronic torque wrenches more productive. For simpler applications, our compact mechanical torque wrenches provide accuracy and reliability no matter what the drive size, length, head articulation or measurement scale. Plus our TQ Series split-beam wrenches deliver unbeatable comfort, durability and easy-to-set torque adjustment.

# TECHANGLE® TORQUE WRENCHES



## TechAngle® Models (2% Accuracy)

- **DUAL PROGRESSIVE LEDs** allow user to see active torque at various work positions; enables the user to anticipate torque target for more accurate torque application
- **LARGE LCD SCREEN** with bright backlight; numbers become larger and bolder during active torque for optimal viewing
- **FOUR ALERT MODES** (LCD, LED, Audible, Vibratory) provide excellent feedback in all working conditions
- **SIX MEASUREMENT MODES** (ft-lb, in-lb, Nm, dNm, kg-cm, and angle) at the touch of a button
- **10 PRESETS** allow programming of common torque applications which saves time
- **ADVANCED FEATURES** include cycle counter, customizable sleep timer, language selection, auto torque calculation for torque adaptors, calibration alerts, battery level indication, and numerous alert mode customizations, allowing the user to customize the torque wrench to your work preferences
- **TORQUE-THEN-ANGLE MODE** allows the user to torque fasteners and then switch to angle mode without removing the torque wrench from a fastener

- **MULTI-AXIS GYRO COMPENSATION** patent pending mechanism compensates for tilt angle while tightening in a flexed position providing greater accuracy
- **MULTI-LINGUAL DISPLAY** programmable to display commands and signals in English, Spanish, French or German
- **LOW-PROFILE BUTTONS** protect against accidental activation
- **HIGHLY ACCURATE** torque measurement; 2% CW and 3% CCW
- **POWER INTERRUPTION TECHNOLOGY** prevents loss of continuity if dropped; prevents loss of work during head bolt pattern applications
- **COMFORTABLE HANDLE WITH FLARED END** provides a secure, non-slip grip during high-leverage applications
- **PROTECTED BATTERY CAP** design with solid brass contacts prevents accidental loosening and ensures continuity
- **TWO YEAR WARRANTY** standard on ATECH and CTECH models
- **STORAGE CASE** included
- **LOW END ACCURACY (ATECH125 MODELS)** ±2% CW/ ±3 CCW, 20–100% F.S.; ±4% CW/±6% CCW, 5–19% F.S.

| Specification Name                     | ATECH1FR240B*                 | ATECH2FR100B                  | ATECH2FR125B                  | ATECH1FS100       | ATECH1FS240       | ATECH2CS100       |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------|-------------------|-------------------|
| Square Drive, inches                   | 1/4                           | 3/8                           | 3/8                           | 1/4               | 1/4               | 3/8               |
| Color                                  | Black Housing/<br>Chrome Body | Black Housing/<br>Chrome Body | Black Housing/<br>Chrome Body | Chrome            | Chrome            | Chrome            |
| Head Type                              | Sealed Flex Head              | Sealed Flex Head              | Sealed Flex Head              | Sealed Flex Head  | Sealed Flex Head  | Sealed Flex Head  |
| Gear Teeth                             | 72                            | 80                            | 80                            | 72                | 72                | 72                |
| Gear Action                            | 5°                            | 4.5°                          | 4.5°                          | 5°                | 5°                | 5°                |
| Range, in-lb                           | 12–240                        | 60–1,200                      | 60–1,500                      | 4–100             | 12–240            | 4–100             |
| Range, ft-lb                           | 1–20                          | 5–100                         | 5–125                         | .33–8.3           | 1–20              | .33–8.33          |
| Range, N•m                             | 1.36–27.12                    | 6.78–135.0                    | 6.78–169.48                   | .45–11.25         | 1.36–27.12        | .48–12            |
| Head Depth, inches                     | 7/16                          | 9/16                          | 9/16                          | 7/16              | 7/16              | 29/32             |
| Head Width, inches                     | 7/8                           | 1-1/4                         | 1-1/4                         | 7/8               | 7/8               | 7/8               |
| Weight (without batteries),<br>lb (kg) | 1.9 (8.6)                     | 2.3 (1.04)                    | 2.2 (0.9)                     | .93 (0.42)        | .93 (0.42)        | .90 (.41)         |
| Battery, Type (qty)                    | AA Alkaline (3)               | AA Alkaline (3)               | AA Alkaline (3)               | Lithium Metal (1) | Lithium Metal (1) | Lithium Metal (1) |
| Length, inches                         | 16.4                          | 17.9                          | 17.9                          | 11.6              | 11.6              | 11.5              |
| Ratchet Service Kit                    | RKRT72A                       | RKRF80                        | RKRFLF80                      | RKRT72A           | RKRT72A           | RKRFC72           |
| Flex Joint Repair Kit                  | RKRT841JT                     | RKRQD2JT                      | RKRFLF80JT                    | TECH1FRATA        | TECH1FRATA        | TECH2FCRAT        |
| Storage Case                           | PBATECH100B                   | PBATECH100B                   | PBATECH100B                   | PBATECH240M       | PBATECH240M       | PBQD1             |
| Red                                    | ATECH1F240RB                  | —                             | ATECH2F125RB                  | —                 | —                 | —                 |
| Green                                  | ATECH1F240GB                  | —                             | ATECH2F125GB                  | —                 | —                 | —                 |
| Orange                                 | ATECH1F240OB                  | —                             | ATECH2F125OB                  | —                 | —                 | —                 |

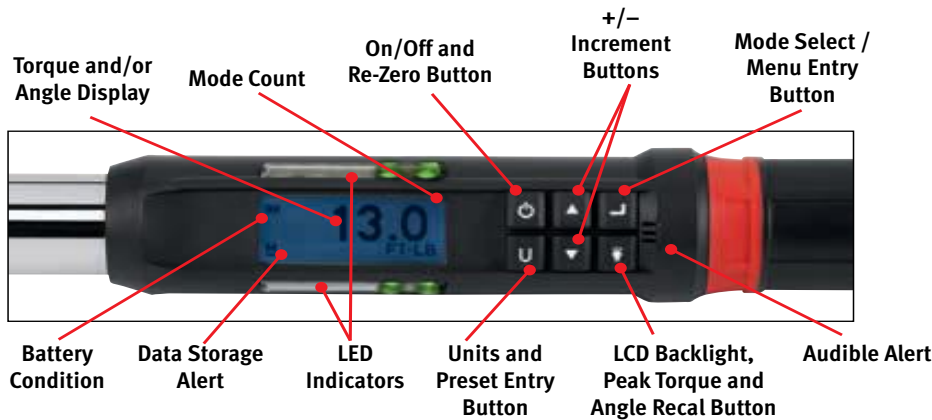
(US #9156148, #9395257, #9242356, #D702519)

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated). All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment. Angle accuracy ±1% of reading, ±1 degree at angular velocity > 10 deg/sec < 180 deg/sec, +/- 1 deg of test fixture; angle range 0–360°. Operating/storage temperature 0–130 °F. Humidity: up to 90% non-condensing. CE approved.



# TECHANGLE® TORQUE WRENCHES

TORQUE



**Protected Battery Cap**  
Designed with solid brass contacts prevents accidental loosening and ensures continuity.

| ATECH2FS100        | ATECH2FM100       | ATECH3FS250        | ATECH2CS240       | ATECH3FR250B                  | ATECH3FR300B                  | ATECH4RS600*      |
|--------------------|-------------------|--------------------|-------------------|-------------------------------|-------------------------------|-------------------|
| 3/8                | 3/8               | 1/2                | 3/8               | 1/2                           | 1/2                           | 3/4               |
| Chrome             | Chrome            | Chrome             | Chrome            | Black Housing/<br>Chrome Body | Black Housing/<br>Chrome Body | Chrome            |
| Sealed Flex Head   | Sealed Flex Head  | Sealed Flex Head   | Sealed Flex Head  | Sealed Flex Head              | Sealed Flex Head              | Sealed Fixed Head |
| 80                 | 80                | 80                 | 72                | 80                            | 80                            | 32                |
| 4.5°               | 5°                | 4.5°               | 5°                | 4.5°                          | 4.5°                          | 11°               |
| 60–1,200           | 60–1,200          | 150–3,000          | 12–240            | 150–3,000                     | 1,480–3,600                   | 360–7,200         |
| 5–100              | 5–100             | 12.5–250           | 1–20              | 12.5–250                      | 15–300                        | 30–600            |
| 6.8–135.0          | 7–135             | 16.9–339           | 1.5–30            | 16.9–339                      | 20.3–406.7                    | 40.7–813.5        |
| 9/16               | 1-1/16            | 3/4                | 29/32             | 3/4                           | 3/4                           | 1-1/4             |
| 1-1/4              | 1-3/16            | 1-5/8              | 7/8               | 1-5/8                         | 1-5/8                         | 2-1/2             |
| 2.85 (1.29)        | 1.6 (.73)         | 4.35 (1.97)        | .93 (.42)         | 3.75 (1.68)                   | 3.95 (1.79)                   | 10.95 (4.96)      |
| Lithium Metal (1)  | Lithium Metal (1) | AA Alkaline (3)    | Lithium Metal (1) | AA Alkaline (3)               | AA Alkaline (3)               | AA Alkaline (3)   |
| 19.1               | 15.4              | 26.7               | 11.5              | 26.6                          | 30                            | 48.7              |
| <b>RKRF80</b>      | <b>RKRFB0</b>     | <b>RKRS80A</b>     | <b>RKRFC72</b>    | <b>RKRS80A</b>                | <b>RKRS80A</b>                | <b>RKRQC4</b>     |
| <b>RKRQD2JT</b>    | <b>TECH2FRATA</b> | <b>RKRSX936JT</b>  | <b>TECH2FCRAT</b> | <b>RKRSX936JT</b>             | <b>TECH3FRATB</b>             | —                 |
| <b>PBATECH100B</b> | <b>PBQD2</b>      | <b>PBATECH250B</b> | <b>PBQD1</b>      | <b>PBATECH250B</b>            | <b>PBATECH300B</b>            | <b>PBATECH4</b>   |
| —                  | —                 | —                  | —                 | —                             | <b>ATECH3F300RB</b>           | —                 |
| —                  | —                 | —                  | —                 | —                             | <b>ATECH3F300GB</b>           | —                 |
| —                  | —                 | —                  | —                 | —                             | <b>ATECH3F300OB</b>           | —                 |

\* Includes protective boot

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated). All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment. Angle accuracy ±1% of reading, ±1 degree at angular velocity > 10 deg/sec < 180 deg/sec, +/- 1 deg of test fixture; angle range 0–360°. Operating/storage temperature 0–130 °F. Humidity: up to 90% non-condensing. CE approved.



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# CONTROLTECH® INDUSTRIAL TORQUE WRENCHES



## Standard Models/2% Accuracy/Ratcheting Head

### FEATURES:

- Torque and Angle combo modes provide the most accurate and fastest way to achieve torque plus angle in a single motion (patent pending)
- Built-in calibration factor for different head lengths (patent pending)
- Dual side LED indicator lights with configurable settings
- Large LCD screen with backlight
- Four indicator modes: LCD, LED, audible, vibratory
- Presets with lockout ability
- Sequence programming and job mode
- USB downloadable data
- Industry-leading two year warranty
- Includes storage case

- Complies with ISO®-6789-2003 and ASME® B107.300 (B107.28) Standards for Electronic Torque Instruments
- CTECH wrenches are manufactured with an all-steel body for strength • CTECHL wrenches are manufactured for rugged black anodized 6061-T aerospace aluminum from durability and reduced weight SPECIFICATIONS:
- Torque Accuracy: ±2%CW, ±3CCW
- Angle Accuracy: ±1% of reading, ±1° @ Angular Velocity >10°/Sec < 180°/Sec
- Angle Range: 0–360°
- Storage Capacity: 1,500 readings
- Number of Presets: 50
- Operating Temperature: 0–130 °F (-18–54 °C)
- Storage Temperature: 0–130 °F (-18–54 °C)

## Standard Models/2% Accuracy/Interchangeable Head

- Snap-on® ControlTech® Industrial Electronic Torque Wrenches are fully programmable for reliable and consistent torque application
- Torque plus Angle combo modes allow the user to simultaneously complete precise “torque plus turn” specifications in a single motion
- In addition to the LED indicator lights, an audible beep and handle vibration alert the user when target torque is achieved
- The rugged all-steel construction is designed to stand-up to even the toughest work conditions

| Stock No.       | Head Type                    | Square Drive, inches | Gear Teeth | Gear Action | Torque Range, in-lb | Torque Range, ft-lb | Torque Range, N•m | Shank Diameter, inches | Weight, lb (kg)                       | Length, inches (mm) |
|-----------------|------------------------------|----------------------|------------|-------------|---------------------|---------------------|-------------------|------------------------|---------------------------------------|---------------------|
| CTECH1FR240A*   | Sealed Flex Head             | 1/4                  | 72         | 5°          | 12–240              | 1.0–20.0            | 1.4–27.2          | —                      | 2.0 (.9)                              | 14.1 (358)          |
| CTECH1R240A*    | Fixed Head                   | 1/4                  | 72         | 5°          | 12–240              | 1.0–20.0            | 1.4–27.2          | —                      | 2.0 (.9)                              | 14.1 (358)          |
| CTECH2FR100A**  | Sealed Flex Head             | 3/8                  | 80         | 4.5°        | 60–1,200            | 5.0–100.0           | 6.8–135.6         | —                      | 2.7 (1.2)                             | 17.2 (437)          |
| CTECH3FR250A*** | Sealed Flex Head             | 1/2                  | 80         | 4.5°        | 150–3,000           | 12.5–250            | 16.9–339          | —                      | 4.5 (2.10)                            | 26.7 (678)          |
| CTECH4R600A†    | Sealed Fixed Head            | 3/4                  | 32         | 11°         | 360–7,200           | 30–600              | 40.7–813.5        | —                      | 10.5 (4.8)                            | 48.6 (1,234)        |
| CTECH1J240A     | Interchangeable              | —                    | —          | —           | 12–240              | 1.0–20.0            | 1.4–27.2          | J (0.425")             | 1.8 (0.8)                             | 12.5 (318)          |
| CTECH2Y100A     | Interchangeable              | —                    | —          | —           | 60–1,200            | 5–100               | 6.8–135.6         | Y (0.560")             | 2.7 (1.2)                             | 17.2 (437)          |
| CTECH3X250A     | Interchangeable              | —                    | —          | —           | 150–3,000           | 12.5–250            | 16.9–339          | X (0.735")             | 3.6 (1.6)                             | 24.1 (612)          |
| CTECH4Z600A     | Interchangeable              | —                    | —          | —           | 30–600              | 360–7,200           | 40.7–813.5        | Z (0.990")             | 7.6 (3.5)                             | 44.8 (1,138)        |
| CTECHL1J240A    | Interchangeable              | —                    | —          | —           | 1.0–20.0            | 12–240              | 1.4–27.2          | J (0.425")             | 1.0 (0.45)                            | 12.5 (316)          |
| CTECH1JM240     | Interchangeable              | —                    | —          | —           | 12–240              | 1–20                | 1.36–27.12        | J (0.425")             | 0.80 (0.36) w/battery, excluding case | 10.15 (258)         |
| CTECHL1R240A    | Sealed Fixed Head            | 1/4                  | 72         | 5°          | 12–240              | 1.0–20.0            | 1.4–27.2          | —                      | 1.2 (0.54)                            | 14.1 (358)          |
| CTECHL1240A     | Fixed Head                   | 1/4                  | —          | —           | 1.0–20.0            | 12–240              | 1.4–27.2          | —                      | 1.1 (0.49)                            | 12.4 (315)          |
| CTECHAN135A     | IZO/ISO (Interchangeable)    | —                    | —          | —           | 60–1,195            | 5.0–99.6            | 6.8–135.0         | 9 x 12 mm              | 2.85 (1.2) w/o head, w/ batteries     | 17.8 (452) w/o head |
| CTECHAN30A      | IZO/ISO (Interchangeable)    | —                    | —          | —           | 1.11–22.13          | 13.3–365.5          | 1.50–30.00        | 9 x 12 mm              | 2.0 (.9) w/o head, w/ batteries       | 13.3 (338) w/o head |
| CTECHBN340A     | IZO/ISO (Interchangeable)    | —                    | —          | —           | 12.5–250.8          | 150–3,009           | 17.0–340.0        | 14 x 18 mm             | 3.75 (1.7) w/o head, w/ batteries     | 23.9 (607) w/o head |
| CTECHANM30      | IZO/ISO Interchangeable Head | —                    | —          | —           | 13.3–265.5          | 1.11–22.13          | 1.5–30            | 9 x 12 mm              | —                                     | —                   |
| CTECH1MR240     | Fixed Head                   | 1/4                  | 72         | 5°          | 12–240              | 1–20                | 1.36–27.12        | —                      | 0.93 (0.42)                           | 11.6 (295)          |
| CTECH2MR240     | Fixed Head                   | 3/8                  | 80         | 4.5°        | 12–240              | 1–20                | 1.36–27.12        | —                      | 0.93 (0.42)                           | 11.6 (295)          |
| CTECH2MR1200    | Fixed Head                   | 3/8                  | 80         | 4.5°        | 60–1,200            | 5–100               | 6.8–135.6         | —                      | 1.6 (.73)                             | 15.4 (391)          |
| CTECH1MR100     | Fixed Head                   | 1/4                  | 72         | 5°          | 5–100               | 0.42–8.33           | 0.57–11.30        | —                      | 0.9 (0.41)                            | 10.9 (267)          |
| CTECH2MR100     | Fixed Head                   | 3/8"                 | 72         | 5°          | 5–100               | 0.42 - 8.33         | 0.57 - 11.30      | —                      | 0.9 (0.41)                            | 10.9 (267.05)       |
| CTECHYM1200     | Interchangeable              | —                    | —          | —           | 60–1,200            | 5–100               | 6.8–135.6         | Y (0.560")             | 1.4 (.63)                             | 13.75 (349)         |

\*Uses Ratchet Service Kit RKRT72A. Includes three AAA Lithium batteries.  
 \*\*Uses Ratchet Service Kit RKRS80A. Includes three AA Lithium batteries.  
 CTAL Torque Wrenches include three AAA Lithium batteries.

\*\*Uses Ratchet Service Kit RKRF80. Includes three AA Lithium batteries.  
 †Uses Ratchet Service Kit RKRQC4. Includes three AA Lithium batteries.

# TECHWRENCH® TORQUE WRENCHES

TORQUE



TECH2R100



TECH4R600

## Standard Models/2% Accuracy/Fixed Head

- Manual preset, automatic track and peak hold modes
- Torque units conversion: N•m, ft-lb, in-lb
- Audible (tone) and tactile (vibrating handle) preset alerts
- Stand on handle bottom keeps tool from rolling off flat surface
- Dual 80® Technology on all 72- and 80-tooth ratchet heads
- Low battery indicator and auto shutoff (after two minutes idle)
- ISO® 6789-2003 and ASME® B107.300-2010 standards compliant
- Certificate of NIST® traceability for 20–100% of full scale

| Specifications        | TECH1R240            | TECH2R100            | TECH3R250            | TECH4R600            |
|-----------------------|----------------------|----------------------|----------------------|----------------------|
| Square Drive, inches  | 1/4                  | 3/8                  | 1/2                  | 3/4                  |
| Head Type             | Sealed Fixed Ratchet | Sealed Fixed Ratchet | Sealed Fixed Ratchet | Sealed Fixed Ratchet |
| Gear Teeth            | 5°                   | 4.5°                 | 4.5°                 | 11°                  |
| Gear Action           | 72                   | 80                   | 80                   | 32                   |
| Range, in-lb          | 24–240               | 60–1,200             | 300–3,000            | 720–7,200            |
| Range, ft-lb          | 2–20                 | 5–100                | 25–250               | 60–600               |
| Range, N•m            | 2.71–27.12           | 6.8–135              | 34–339               | 81–813               |
| Head Depth, inches    | 7/16                 | 5/8                  | 3/4                  | 1-1/4                |
| Head Width, inches    | 7/8                  | 1-5/32               | 1-5/8                | 2-1/2                |
| Length, inches        | 15-1/4               | 17-1/4               | 26-1/4               | 48                   |
| Operating Temperature | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  |
| Storage Temperature   | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) |
| Battery, Type (qty)   | AA Alkaline (3)      | AA Alkaline (3)      | AA Alkaline (3)      | AA Alkaline (3)      |
| Ratchet Service Kit   | RKRT72A              | RKRF80               | RKRS80A              | RKRQC4               |
| Storage Case          | PBTECH2              | PBTECH2              | PBTECH3              | PBTECH4              |

CE



TECH3FR250

## Standard Models/2% Accuracy/Flex Head

- Techwrench® (standard models)
- Torque accuracy ratchet head models: 2% CW, 3% CCW from 20–100% F.S.; 4% CW, 6% CCW from 10–19% F.S. 8% CW; 10% CCW from 5–9% of full scale (TECH Z only)
- Torque accuracy interchangeable head models: 4% CW, 6% CCW from 20–100% F.S. (TECH Y only)
- Sealed flex head ratchets move ±15°



TECH2Y100



TECH4Z600

## Standard Models/4% Accuracy/Interchangeable Head

| Specifications        | TECH1FR240           | TECH2FR100           | TECH3FR250           |
|-----------------------|----------------------|----------------------|----------------------|
| Square Drive, inches  | 1/4                  | 3/8                  | 1/2                  |
| Head Type             | Sealed Flex Head     | Sealed Flex Head     | Sealed Flex Head     |
| Gear Teeth            | 5°                   | 4.5°                 | 4.5°                 |
| Gear Action           | 72                   | 80                   | 80                   |
| Range, in-lb          | 24–240               | 60–1,200             | 300–3,000            |
| Range, ft-lb          | 2–20                 | 5–100                | 25–250               |
| Range, N•m            | 2.7–27.1             | 6.8–135              | 34–339               |
| Head Depth, inches    | 7/16                 | 5/8                  | 3/4                  |
| Head Width, inches    | 7/8                  | 1-5/32               | 1-5/8                |
| Length, inches        | 15-1/4               | 17-1/4               | 26-1/4               |
| Operating Temperature | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  |
| Storage Temperature   | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) |
| Ratchet Service Kit   | RKRT72A              | RKRF80               | RKRS80A              |
| Storage Case          | PBTECH2              | PBTECH2              | PBTECH3              |

| Specifications        | TECH1J240            | TECH2Y100            | TECH3X250            | TECH4Z600            |
|-----------------------|----------------------|----------------------|----------------------|----------------------|
| Head Type             | Interchangeable      | Interchangeable      | Interchangeable      | Interchangeable      |
| Range, in-lb          | 24–240               | 60–1,200             | 300–3,000            | 720–7,200            |
| Range, ft-lb          | 2–20                 | 5–100                | 25–250               | 60–600               |
| Range, N•m            | 27.1–27.12           | 6.8–135              | 34–339               | 81–813               |
| Shank Dia.            | J (0.425")           | Y (0.560")           | X (0.735")           | Z (0.990")           |
| Length, inches        | 13-3/4               | 15-1/2               | 23-3/4               | 42                   |
| Operating Temperature | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  | 40–110 °F (5–42 °C)  |
| Storage Temperature   | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) | 0–122 °F (-20–50 °C) |
| Storage Case          | PBTECH2              | PBTECH2              | PBTECH3              | PBTECH4              |

Wrench length specification does not include the length of interchangeable heads. The certification of accuracy provided per ASME® and ISO® standards is 20%–100% of full scale.

\* CE



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## ADJUSTABLE CLICK-TYPE



The QD Series of Click-Type Torque Instruments feature an innovative design that provides consistently accurate readings and rugged, trouble-free performance.

### FEATURES:

- **CERTIFICATE OF CALIBRATION:** A Certificate of Calibration is packed with every QD Series Torque Instrument. Actual certification readings and individual instrument serial number are included. Each torque instrument, as calibrated at the factory, is certified to meet the accuracy specified in ANSI® B107.300-2010 (B107.14) and was calibrated on a torque standard traceable to the National Institute of Standards Technology (NIST®).
- **ACCURACY:** All QD Series Torque Wrenches are accurate to  $\pm 4\%$  clockwise and  $\pm 6\%$  counterclockwise from 20% of full scale to full scale
- **LONG LIFE RATCHET HEAD:** QD Series Torque wrenches feature the Snap-on® High-Strength Sealed Ratchet Head. Sealed ratchet heads keep out dirt and moisture while being virtually maintenance free. US Patent #4,934,220 applies to all QD Series Ratchet Head models. US Patent #6,125,722 applies to 1/4", 3/8" and 1/2" drive Ratchet Head models only.
- **MINIMAL FRICTION "HOUR GLASS" CAM:** Retains and releases lubricant where needed to reduce friction
- **POSITIVE STOP:** Instrument can not be accidentally disassembled if wound down past scale
- **KNURLED HANDLE** for a secure non-slip grip
- **ONE YEAR WARRANTY**
- **STORAGE CASE** included with each instrument
- All QD models with "A" suffix have roll-marked scales for better permanence and visibility

### US Torque Instruments (in-lb)/ $\pm 4\%$ Accuracy

| Square Drive, inches | Stock No. | Head Style      | Gear Teeth | Swing Arc | Range, minimum | Range, maximum | Increments | Length, inches | Head Width, inches | Head Depth, inches | Storage Case | Ratchet Service Kit |
|----------------------|-----------|-----------------|------------|-----------|----------------|----------------|------------|----------------|--------------------|--------------------|--------------|---------------------|
| 1/4                  | QD150     | Fixed           | —          | —         | 10 in-lb       | 50 in-lb       | .5 in-lb   | 9-3/4          | 5/8                | 13/16              | PBQD1        | —                   |
| 1/4                  | QD1R50    | Fixed Ratchet   | 36         | 10°       | 10 in-lb       | 50 in-lb       | .5 in-lb   | 9-7/8          | 7/8                | 7/16               | PBQD1        | RKRT936             |
| 1/4                  | QD1200    | Fixed           | —          | —         | 40 in-lb       | 200 in-lb      | 1 in-lb    | 10-15/16       | 5/8                | 13/16              | PBQD1        | —                   |
| 1/4                  | QD1R200   | Fixed Ratchet   | 36         | 10°       | 40 in-lb       | 200 in-lb      | 1 in-lb    | 11-1/16        | 7/8                | 7/16               | PBQD1        | RKRT936             |
| 3/8                  | QD2R200   | Compact Ratchet | 36         | 10°       | 40 in-lb       | 200 in-lb      | 1 in-lb    | 11-1/16        | 7/8                | 7/16               | PBQD1        | RKRCF936            |
| 3/8                  | QD21000A  | Fixed           | —          | —         | 200 in-lb      | 1,000 in-lb    | 5 in-lb    | 14-9/16        | 1                  | 1-3/16             | PBQD2        | —                   |
| 3/8                  | QD2R1000A | Fixed Ratchet   | 80         | 4.5°      | 200 in-lb      | 1,000 in-lb    | 5 in-lb    | 14-9/16        | 1                  | 1-3/16             | PBQD2        | RKRF80              |
| 1/2                  | QD3R1600A | Fixed Ratchet   | 80         | 4.5°      | 300 in-lb      | 1,600 in-lb    | 10 in-lb   | 19             | 1-5/8              | 3/4                | PBQD3        | RKRS80A             |
| 1/2                  | QD32500A  | Fixed           | —          | —         | 500 in-lb      | 2,500 in-lb    | 10 in-lb   | 18-1/8         | 1                  | 1-1/4              | PBQD3        | —                   |
| 1/2                  | QD3R2500A | Fixed Ratchet   | 80         | 4.5°      | 500 in-lb      | 2,500 in-lb    | 10 in-lb   | 19-1/8         | 1-5/8              | 3/4                | PBQD3        | RKRS80A             |

### US Torque Instruments: Dual-Scale (ft-lb/N•m)

| Square Drive, inches | Stock No.  | Head Style    | Gear Teeth | Swing Arc | Range, minimum | Range, maximum | Increments | Length, inches | Head Width, inches | Head Depth, inches | Storage Case | Ratchet Service Kit |
|----------------------|------------|---------------|------------|-----------|----------------|----------------|------------|----------------|--------------------|--------------------|--------------|---------------------|
| 3/8                  | QD2100A    | Fixed         | —          | —         | 20 ft-lb       | 100 ft-lb      | .5 ft-lb   | 14-9/16        | 1                  | 1-3/16             | PBQD2        | —                   |
| 3/8                  | QD275A     | Fixed         | —          | —         | 15 ft-lb       | 75 ft-lb       | .5 ft-lb   | 14-9/16        | 1                  | 1-3/16             | PBQD2        | —                   |
| 3/8                  | QD2R75B    | Flex Head     | 80         | 4.5°      | 5              | 75             | .5 ft-lb   | 15-3/4         | 1-5/32             | 9/16               | PBQD2        | RKRF80              |
| 3/8                  | QD2R75A    | Fixed         | 80         | 4.5°      | 10             | 75             | .5 ft-lb   | 15-3/4         | 9/16               | 1-5/32             | PBQD2        | RKRF80              |
| 3/8                  | QD2R100A   | Fixed Ratchet | 80         | 4.5°      | 20 ft-lb       | 100 ft-lb      | .5 ft-lb   | 15-9/16        | 1-5/32             | 9/16               | PBQD2        | RKRF80              |
| 1/2                  | QD3150A    | Fixed         | —          | —         | 30 ft-lb       | 150 ft-lb      | 1 ft-lb    | 18             | 1                  | 1-1/4              | PBQD3        | —                   |
| 1/2                  | QD3250A    | Fixed         | —          | —         | 50 ft-lb       | 250 ft-lb      | 1 ft-lb    | 23-3/32        | 1                  | 1-1/4              | PBQD3        | —                   |
| 1/2                  | QD3FR250A* | Flex Head     | 80         | 4.5°      | 50 ft-lb       | 250 ft-lb      | 1 ft-lb    | 25-3/4         | 1-5/8              | 3/4                | PBATECH300B  | —                   |
| 1/2                  | QD3R250A   | Fixed Ratchet | 80         | 4.5°      | 50 ft-lb       | 250 ft-lb      | 1 ft-lb    | 24-3/16        | 1-5/8              | 3/4                | PBQD3        | RKRS80A             |
| 3/4                  | QD4400A    | Fixed         | —          | —         | 75 ft-lb       | 400 ft-lb      | 2.5 ft-lb  | 33-3/4         | 1-1/2              | 1-1/2              | PBQC4        | —                   |
| 3/4                  | QD4600A    | Fixed         | —          | —         | 120 ft-lb      | 600 ft-lb      | 5 ft-lb    | 40-3/4         | 1-1/2              | 1-1/2              | PBQC4        | —                   |
| 3/4                  | QD4R400A   | Fixed Ratchet | 32         | 11°       | 75 ft-lb       | 400 ft-lb      | 2.5 ft-lb  | 35-3/4         | 2-1/2              | 1-1/4              | PBQC4        | RKRQC4              |
| 3/4                  | QD4R600A   | Fixed Ratchet | 32         | 11°       | 100 ft-lb      | 600 ft-lb      | 5 ft-lb    | 42-3/4         | 2-1/2              | 1-1/4              | PBQC4        | RKRQC4              |
| 1                    | QD5R1000A  | Fixed Ratchet | 30         | 12°       | 200 ft-lb      | 1,000 ft-lb    | 5 ft-lb    | 71             | 3-1/8              | 1-1/2              | PBQC5        | RKRQC5              |

\*Clockwise-only calibration



**BRUTUS3R300**



**QD2RN100A**

## Torque Wrenches

| Square Drive, inches | Stock No.          | Head Style    | Gear Teeth | Swing Arc | Range, minimum | Range, maximum | Increments | Length, inches | Head Width, inches | Head Depth, inches | Storage Case | Ratchet Service Kit |
|----------------------|--------------------|---------------|------------|-----------|----------------|----------------|------------|----------------|--------------------|--------------------|--------------|---------------------|
| 1/2                  | <b>BRUTUS3R300</b> | Fixed Ratchet | 36         | 10°       | 60 ft-lb       | 300 ft-lb      | 2 ft-lb    | 32-1/2         | 1-3/4              | 3/4                | <b>PBTQ4</b> | <b>RKRS80A</b>      |
| 3/8                  | <b>QD2RN100A</b>   | Fixed Ratchet | 80         | 4.5°      | 20 N•m         | 100 N•m        | .5 N•m     | 15-9/16        | 1-5/32             | 9/16               | <b>PBQD2</b> | <b>RKRF80</b>       |

### BRUTUS3R300 1/2" Drive Adjustable Click-Type Torque Wrench (60–300 ft-lb)

- Expanded range allows extended coverage with the 1/2" drive tool servicing a majority of vehicles and large pickup trucks
- Gives the user additional range in applying torque and angle on high-torque applications
- Stamped scale (ft-lb) offers better permanency and visibility
- Features heavy-duty components; thicker diameter main tube, cam and internal components for strength and durability
- Accuracy is ±6% CW and CCW



**QD3RM30A**

## Metric Torque Instruments (kg m, kg cm)

| Square Drive, inches | Stock No.         | Head Style    | Gear Teeth | Swing Arc | Range, min | Range, max  | Increments | Length, inches | Head Width, inches | Head Depth, inches | Storage Case | Repair Kit     |
|----------------------|-------------------|---------------|------------|-----------|------------|-------------|------------|----------------|--------------------|--------------------|--------------|----------------|
| 3/8                  | <b>QD2RM1000A</b> | Flex Head     | 80         | 4.5°      | 200 kg•cm  | 1,000 kg•cm | 5 kg•cm    | 15-9/16        | 1-5/32             | 9/16               | <b>PBQD2</b> | <b>RKRF80</b>  |
| 1/2                  | <b>QD3RM30A</b>   | Fixed Ratchet | 80         | 4.5°      | 6 kg•m     | 30 kg•m     | .2 kg•m    | 19             | 1-5/8              | 3/4                | <b>PBQD3</b> | <b>RKRS80A</b> |

"A" suffix models feature roll-marked tubes and 80 tooth gears



**QD1RN6A**



**QD1RN25A**



**QD2RN25A**

## Newton Meter Torque Wrenches/±4% Accuracy

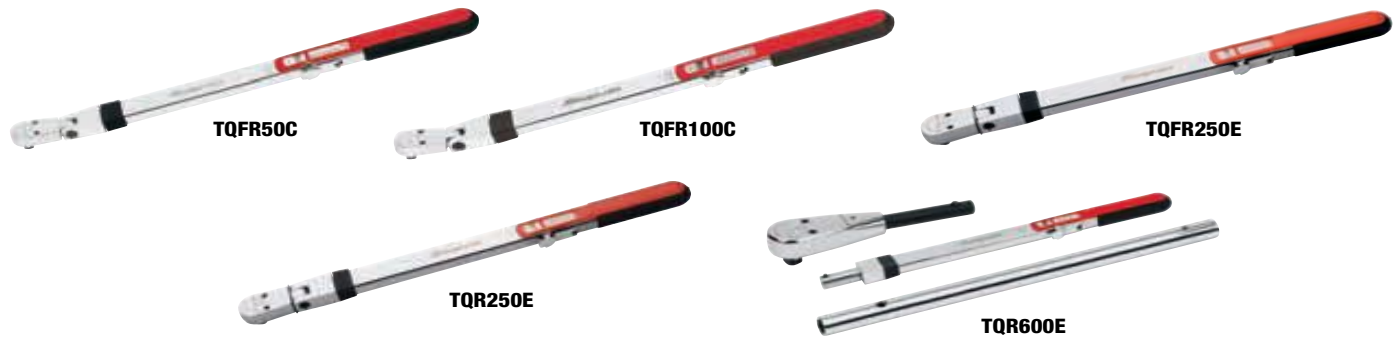
| Square Drive, inches | Stock No.         | Head Style      | Gear Teeth | Swing Arc | Range, minimum | Range, maximum | Increments | Length, inches | Head Width, inches | Head Depth, inches | Storage Case     | Ratchet Service Kit |
|----------------------|-------------------|-----------------|------------|-----------|----------------|----------------|------------|----------------|--------------------|--------------------|------------------|---------------------|
| 1/4                  | <b>QD1RN6A</b>    | Fixed Ratchet   | 36         | 10°       | 1 N•m          | 6 N•m          | .05 N•m    | 9-7/8          | 7/8                | 7/16               | <b>PBQD1</b>     | <b>RKRT936</b>      |
| 1/4                  | <b>QD1RN25A</b>   | Fixed Ratchet   | 36         | 10°       | 5 N•m          | 25 N•m         | .1 N•m     | 11-3/4         | 7/8                | 7/16               | <b>PBQD1</b>     | <b>RKRT936</b>      |
| 3/8                  | <b>QD2RN25A</b>   | Compact Ratchet | 36         | 10°       | 5 N•m          | 25 N•m         | .1 N•m     | 11-3/4         | 7/8                | 7/16               | <b>PBQD2</b>     | <b>RKRFC936</b>     |
| 3/8                  | <b>QD2RN50A</b>   | Fixed Ratchet   | 80         | 4.5°      | 10 N•m         | 50 N•m         | .5 N•m     | 15-9/16        | 1-5/32             | 9/16               | <b>PBQD2</b>     | <b>RKRF80</b>       |
| 3/8                  | <b>QD2RN100A</b>  | Fixed Ratchet   | 80         | 4.5°      | 20 N•m         | 100 N•m        | .5 N•m     | 15-9/16        | 1-5/32             | 9/16               | <b>PBQD2</b>     | <b>RKRF80</b>       |
| 1/2                  | <b>QD3RN200A</b>  | Fixed Ratchet   | 80         | 4.5°      | 40 N•m         | 200 N•m        | 2 N•m      | 19             | 1-5/8              | 3/4                | <b>PBQD3</b>     | <b>RKRS80A</b>      |
| 1/2                  | <b>QD3RN350A</b>  | Fixed Ratchet   | 80         | 4.5°      | 70 N•m         | 350 N•m        | 2 N•m      | 24-3/16        | 1-5/8              | 3/4                | <b>PBQD3</b>     | <b>RKRS80A</b>      |
| 3/4                  | <b>QD4RN800A</b>  | Fixed Ratchet   | 32         | 11°       | 150 N•m        | 800 N•m        | 5 N•m      | 42-3/4         | 2-1/2              | 1-1/4              | <b>PBQC4</b>     | <b>RKRQC4</b>       |
| 1                    | <b>QD5RN1500A</b> | Fixed Ratchet   | 30         | 12°       | 300 N•m        | 1,500 N•m      | 10 N•m     | 68.4           | 3-1/8              | 1-1/2              | <b>S10-117-6</b> | <b>RKRQC5</b>       |

"A" suffix models feature roll-marked tubes



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## ADJUSTABLE CLICK-TYPE



### Adjustable Click Type Torque Wrench

- Snap-on® sealed ratchet head is virtually maintenance free; more time working with the tool, less time on tool maintenance
- Thumb screw-type adjustment is faster than cycling through a micrometer-style torque wrench; guard prevents setting from being changed accidentally; setting is displayed in window; conversion table to N•m is displayed on handle
- Sealed neck keeps dust and grit away from the torque mechanism for longer tool life
- “Split beam” measuring element provides accurate, reliable readings and eliminates the heavy coil spring used in conventional click-type wrenches; yields fewer moving parts, reducing friction and wear
- Cushion grip handle provides comfort plus control and resists most automotive fluids
- Designed for measuring torque in a clockwise direction only; wrench is not reversible
- CE: EU—GB, FR, ES, DE

### US Reading Torque Wrenches with Conversion Scale/±4% Accuracy

| Square Drive, inches | Stock No.  | Head Style     | Gear Teeth | Swing Arc | Range, minimum | Range, maximum | Increments | Length, inches | Head Width, inches | Head Depth*, inches | Ratchet Service Kit | Storage Case |
|----------------------|------------|----------------|------------|-----------|----------------|----------------|------------|----------------|--------------------|---------------------|---------------------|--------------|
| 3/8                  | TQFR50C†   | Flex Head      | 36         | 10°       | 120 in-lb      | 600 in-lb      | 10 in-lb   | 18-5/8         | 1-5/8              | 9/16                | RKRF936             | PBTQ1        |
| 3/8                  | TQFR100C** | Flex Head      | 36         | 10°       | 20 ft-lb       | 100 ft-lb      | 2 ft-lb    | 18-5/8         | 1-5/8              | 9/16                | RKRF936             | PBTQ1        |
| 3/8                  | TQFR250E†  | Flex Head      | 36         | 10°       | 40 ft-lb       | 250 ft-lb      | 5 ft-lb    | 22-3/8         | 1-5/8              | 9/16                | RKRS936             | PBTQ3        |
| 1/2                  | TQR250E    | Fixed Ratchet  | 36         | 10°       | 40 ft-lb       | 250 ft-lb      | 5 ft-lb    | 22-3/8         | 1-5/8              | 3/4                 | RKRS936             | PBTQ3        |
| 3/4                  | TQR400E†»  | Detach Ratchet | 32         | 11°       | 130 ft-lb      | 400 ft-lb      | 10 ft-lb   | 38-1/8         | 2-1/2              | 1-1/4               | RKRTQ4              | PBTQ4        |
| 3/4                  | TQR600E†»  | Detach Ratchet | 32         | 11°       | 200 ft-lb      | 600 ft-lb      | 10 ft-lb   | 48-5/8         | 2-1/2              | 1-1/4               | RKRTQ4              | PBTQ4        |

All wrenches are non-reversible.

\*Does not include square drive dimension

» Three-piece construction disassembles for storage/transport

†TQFR50C, TQR250E, TQR400E and TQR600E available in Red only

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated).

All wrenches and drivers are calibrated per ASME® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment.

#### Colors Available



\*\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Newton Meter Torque Wrenches with Conversion Scale

| Square Drive, inches | Stock No. | Head Style | Gear Teeth | Swing Arc | Range, minimum | Range, maximum | Increments | Length, inches | Head Depth*, inches | Storage Case | Repair Kit |
|----------------------|-----------|------------|------------|-----------|----------------|----------------|------------|----------------|---------------------|--------------|------------|
| 3/8                  | TQFRN130B | Flex Head  | 30         | 12°       | 25 N•m         | 130 N•m        | 5 N•m      | 17-5/8         | 9/16                | PB50A        | RKQJA2D    |
| 1/2                  | TQFRN350E | Flex Head  | 32         | 11°       | 70 N•m         | 350 N•m        | 5 N•m      | 22-1/8         | 3/4                 | PBTQ1        | RKTQ3      |
| 3/8                  | TQFRN68B  | Flex Head  | 30         | 12°       | 14 N•m         | 68 N•m         | 2 N•m      | 17-5/8         | 9/16                | PB50A        | RKQJA2D    |

\*Does not include square drive dimension

All wrenches are non-reversible.

The 3/8" drive models in this chart have metal handles.



TQFRN350E

### Metric Torque Wrenches with Conversion Scale

| Square Drive, inches | Stock No. | Head Style     | Gear Teeth | Swing Arc | Range, minimum | Range, maximum | Increments | Length, inches | Head Width, inches | Head Depth*, inches | Storage Case | Repair Kit |
|----------------------|-----------|----------------|------------|-----------|----------------|----------------|------------|----------------|--------------------|---------------------|--------------|------------|
| 1/2                  | TQFRM34D  | Flex Head      | 32         | 11°       | 5.0 kg•m       | 34 kg•m        | 1.0 kg•m   | 22-1/8         | 1-5/8              | 3/4                 | PBTQ3        | RKTQ3      |
| 3/4                  | TQFRM80C  | Detach Ratchet | 32         | 11°       | 26.0 kg•m      | 80 kg•m        | 2.0 kg•m   | 48             | 2-3/8              | 1-1/4               | PB39         | RKRQC4     |

\*Does not include square drive dimension

All wrenches are non-reversible.



TQFRM34D



TE50FUA



TE175L

## US Reading/Standard 2% Accuracy

- Dial torque wrenches allow the user to easily apply and monitor torque
- Long-lasting performance given minimal component contact
- Steel welded bodies with bright nickel-chrome finish
- Heat-treated dial guards protect the dial crystal from damage
- Patented torsion bar machined from aircraft quality alloy steel for long life and precise performance across the entire scale
- Operating temperature range of 0–100 °F
- Wide selection of models—from 1/4–1-1/2” drives to ranges, scales, and dial configurations—there is a dial wrench to cover nearly every need
- Certificate of calibration models, add “C” suffix to stock number

| Square Drive, inches | Basic Models Stock No. | Follow up Models Stock No. | Signal Models Stock No. | Range       | Increments  | Length, inches | Width, inches | Head Depth,* inches | Storage Case |
|----------------------|------------------------|----------------------------|-------------------------|-------------|-------------|----------------|---------------|---------------------|--------------|
| 1/4                  | TE1A                   | TE1FUA                     | —                       | 15 in-lb    | 1/4 in-lb   | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 1/4                  | TE3A                   | TE3FUA                     | —                       | 30 in-lb    | 1/2 in-lb   | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 1/4                  | TE6A                   | TE6FUA                     | —                       | 75 in-lb    | 1 in-lb     | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TE12A                  | TE12FUA                    | TE12LA                  | 150 in-lb   | 2-1/2 in-lb | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TE25A                  | TE25FUA                    | TE25LA                  | 300 in-lb   | 5 in-lb     | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TE50A                  | TE50FUA                    | TE50LA                  | 600 in-lb   | 10 in-lb    | 12-1/2         | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TE12FA                 | TE12FFUA                   | TE12FLA                 | 12 ft-lb    | 1/2 ft-lb   | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TE25FA                 | TE25FFUA                   | TE25FLA                 | 25 ft-lb    | 1/2 ft-lb   | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TE50FA                 | TE50FFUA                   | TE50FLA                 | 50 ft-lb    | 1 ft-lb     | 12-1/2         | 2-11/16       | 1-1/4               | PB9          |
| 1/2                  | TE51                   | TE51FU                     | TE51L                   | 600 in-lb   | 10 in-lb    | 15             | 2-11/16       | 1-5/16              | —            |
| 1/2                  | TE51F                  | TE51FFU                    | TE51FL                  | 50 ft-lb    | 1 ft-lb     | 15             | 2-11/16       | 1-5/16              | —            |
| 1/2                  | TE100                  | TE100FU                    | TE100L                  | 100 ft-lb   | 1 ft-lb     | 16             | 2-3/4         | 1-3/8               | PBR5         |
| 1/2                  | TE175                  | TE175FU                    | TE175L                  | 175 ft-lb   | 2-1/2 ft-lb | 18-3/4         | 2-3/4         | 1-3/8               | PBR5         |
| 1/2                  | TE250                  | TE250FU                    | TE250L                  | 250 ft-lb   | 5 ft-lb     | 23-3/4         | 2-3/4         | 1-3/8               | PB8A         |
| 3/4                  | TE352A                 | TE352FUA                   | TE352LA                 | 350 ft-lb   | 5 ft-lb     | 29-7/8         | 3-1/4         | 1-25/32             | —            |
| 3/4                  | TE602A                 | TE602FUA                   | TE602LA                 | 600 ft-lb   | 10 ft-lb    | 40-7/8         | 3-1/4         | 1-25/32             | PB39         |
| 1                    | TE803**                | TE803FU**                  | TE803L**                | 800 ft-lb   | 10 ft-lb    | 66-13/16       | 3-9/16        | 2-1/32              | —            |
| 1                    | TE1003†                | TE1003FU**                 | TE1003L**               | 1,000 ft-lb | 10 ft-lb    | 66-13/16       | 3-9/16        | 2-1/32              | —            |
| 1                    | TE1503†                | TE1503FU†                  | TE1503L†                | 1,500 ft-lb | 25 ft-lb    | 80             | 4-13/32       | 2-1/8               | —            |
| 1                    | TE2003†                | TE2003FU†                  | TE2003L†                | 2,000 ft-lb | 25 ft-lb    | 80             | 4-13/32       | 2-1/8               | —            |
| 1-1/2                | TE2005†                | TE2005FU†                  | TE2005L†                | 2,000 ft-lb | 25 ft-lb    | 80             | 3-9/16        | 2-3/8               | —            |
| 1-1/2                | TE3005                 | TE3005FU**                 | TE3005L**               | 3,000 ft-lb | 50 ft-lb    | 140            | 5-1/2         | 2-13/16             | —            |

\*Does not include square drive dimension

†Includes separately packed 93TQPA 5' tubular extension handle

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available.

Basic model = 1 needle Follow-up = 2 needles Signal = signal light GTE models feature a black oxide finish.

\*\*Includes separately packed 92TQPA 4' tubular extension handle.

TE3005 includes 94TQPA 10' extension handle



### BASIC MODEL

- Needle shows torque achieved



### FOLLOW UP MODEL

- Two separate needles show targeted torque and torque achieved



### SIGNAL MODEL

- Features a built-in light that flashes when targeted torque is achieved



**WARNING**



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# TORQOMETER® TORQUE WRENCHES



TESI75



TESI75L

## Newton Meter Reading/Standard 2% Accuracy

- Certificate of calibration models are designated by the “C” suffix added to stock number

| Square Drive, inches | Stock No.   | Follow up Models Stock No. | Signal Models Stock No. | Range, N•m | Increments, N•m | Length, inches | Width, inches | Head Depth*, inches | Storage Case |
|----------------------|-------------|----------------------------|-------------------------|------------|-----------------|----------------|---------------|---------------------|--------------|
| 1/4                  | TESI5       | TESI5FU                    | TESI5L                  | 5          | .2              | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 1/4                  | TESI10      | TESI10FU                   | TESI10L                 | 10         | .5              | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TESI20      | TESI20FU                   | TESI20L                 | 20         | .5              | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TESI30      | TESI30FU                   | TESI30L                 | 30         | 1               | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TESI60      | TESI60FU                   | TESI60L                 | 60         | 2               | 12-1/2         | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TESI70      | TESI70FU                   | TESI70L                 | 70         | 2               | 12-1/2         | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TESI75      | TESI75FU                   | TESI75L                 | 75         | 1               | 12-1/2         | 2-11/16       | 1-1/4               | PB9          |
| 1/2                  | TESI125     | TESI125FU                  | TESI125L                | 125        | 5               | 16             | 2-11/16       | 1-3/8               | PBR5         |
| 1/2                  | TESI200     | TESI200FU                  | TESI200L                | 200        | 5               | 18-3/4         | 2-3/4         | 1-3/8               | PBR5         |
| 1/2                  | TESI250     | TESI250FU                  | TESI250L                | 250        | 5               | 18-3/4         | 2-3/4         | 1-3/8               | PBR5         |
| 3/4                  | TESI500A    | TESI500FUA                 | TESI500LA               | 500        | 10              | 29-7/8         | 3-1/4         | 1-25/32             | PB39         |
| 3/4                  | TESI800A    | TESI800FUA                 | TESI800LA               | 800        | 20              | 40-7/8         | 3-1/4         | 1-25/32             | PB39         |
| 1                    | TESI1360**  | TESI1360FU**               | TESI1360L**             | 1,360      | 20              | 66-13/16       | 3-9/16        | 2-1/32              | —            |
| 1                    | TESI2803**  | TESI2803FU**               | TESI2803L**             | 2,800      | 50              | 80             | 4-13/32       | 2-1/8               | —            |
| 1-1/2                | TESI2805*** | TESI2805FU***              | —                       | 2,800      | 50              | 80             | 4-25/32       | 2-3/8               | —            |
| 1-1/2                | —           | TESI4000FU                 | TESI4000L               | 4,000      | 100             | 140            | 5-1/2         | 2-13/16             | —            |

\*Does not include square drive dimension

Includes separately packed 93TQPA 5' tubular extension handle

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding “C” to the end of the stock number.

Basic model = 1 needle

Follow-Up = 2 needles

Signal = signal light

\*\*Includes separately packed 92TQPA 4' tubular extension handle

TE3005 includes 94TQPA 10' extension handle



TER175



TER175L

## Combination US/Newton Meter Reading/Precise 1% Accuracy

- Certificate of calibration models are designated by the “C” suffix added to stock number

| Square Drive, inches | Stock No. | Follow up Models Stock No. | Signal Models Stock No. | Range, N•m   | Increments, N•m | US Range    | US Increments | Length, inches | Width, inches | Head Depth*, inches | Storage Case |
|----------------------|-----------|----------------------------|-------------------------|--------------|-----------------|-------------|---------------|----------------|---------------|---------------------|--------------|
| 1/4                  | TER1A     | TER1FUA                    | TER1LA                  | 1.7          | .05             | 15 in-lb    | .5 in-lb      | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 1/4                  | TER3A     | TER3FUA                    | TER3LA                  | 3.5          | 0.1             | 30 in-lb    | 1 in-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 1/4                  | TER6A     | TER6FUA                    | —                       | 8.4          | 0.2             | 75 in-lb    | 1 in-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TER12A    | TER12FUA                   | TER12LA                 | 17           | .5              | 150 in-lb   | 5 in-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TER25A    | TER25FUA                   | TER25LA                 | 0–3,200 N•cm | 50 N•cm         | 0–300 in-lb | 5 in-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TER50A    | TER50FUA                   | TER50LA                 | 60           | 1               | 600 in-lb   | 20 in-lb      | 12-1/2         | 2-11/16       | 1-1/4               | PB9          |
| 1/2                  | TER51     | TER51FU                    | TER51L                  | 60           | 1               | 600 in-lb   | 20 in-lb      | 15             | 2-11/16       | 1-5/16              | —            |
| 1/2                  | TER100    | TER100FU                   | TER100L                 | 140          | 5               | 100 ft-lb   | 2 ft-lb       | 16             | 2-3/4         | 1-3/8               | PBR5         |
| 1/2                  | TER175    | TER175FU                   | TER175L                 | 230          | 10              | 175 ft-lb   | 5 ft-lb       | 18-3/4         | 2-3/4         | 1-3/8               | PBR5         |
| 3/4                  | TER352A   | TER352FUA                  | TER352LA                | 480          | 10              | 350 ft-lb   | 5 ft-lb       | 29-7/8         | 3-1/4         | 1-3/8               | PB39         |
| 3/4                  | TER602A   | TER602FUA                  | TER602LA                | 800          | 20              | 600 ft-lb   | 20 ft-lb      | 40-7/8         | 3-1/4         | 1-25/32             | PB39         |
| 1                    | TER1003** | —                          | TER1003L**              | 1,360        | 20              | 1,000 ft-lb | 20 ft-lb      | 66-13/16       | 3-9/16        | 2-1/32              | —            |

\*Does not include square drive dimension

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding “C” to the end of the stock number.

Basic model = 1 needle

Follow-Up = 2 needles

Signal = signal light

\*\*Includes separately packed 92TQPA 4' tubular extension handle

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated).

All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20%–100% of full scale, using NIST® traceable equipment.



# TORQOMETER® TORQUE WRENCHES

TORQUE



TEC175



TEC175L

## Combination US/Metric Reading/Standard 2% Accuracy

| Square Drive, inches | Stock No. | Follow up Models Stock No. | Signal Models Stock No. | Metric Range | Metric Increments | US Range    | US Increments | Length, inches | Width, inches | Head Depth*, inches | Storage Case |
|----------------------|-----------|----------------------------|-------------------------|--------------|-------------------|-------------|---------------|----------------|---------------|---------------------|--------------|
| 1/4                  | TEC1A     | TEC1FUA                    | —                       | 16 kg•cm     | 1 kg•cm           | 15 in-lb    | .5 in-lb      | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 1/4                  | TEC3A     | TEC3FUA                    | —                       | 35 kg•cm     | 1 kg•cm           | 30 in-lb    | 1 in-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 1/4                  | TEC6A     | TEC6FUA                    | —                       | 90 kg•cm     | 2.5 kg•cm         | 75 in-lb    | 1 in-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TEC12A    | TEC12FUA                   | TEC12LA                 | 175 kg•cm    | 5 kg•cm           | 150 in-lb   | 5 in-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TEC25FA   | TEC25FFUA                  | TEC25FLA                | 350 kg•cm    | 10 kg•cm          | 25 ft-lb    | 1 ft-lb       | 9-29/32        | 2-11/16       | 1-1/4               | PB9          |
| 3/8                  | TEC50A    | TEC50FUA                   | TEC50LA                 | 700 kg•cm    | 20 kg•cm          | 600 in-lb   | 20 in-lb      | 12-1/2         | 2-11/16       | 1-1/4               | PB9          |
| 1/2                  | TEC51     | TEC51FU                    | TEC51L                  | 700 kg•cm    | 20 kg•cm          | 600 in-lb   | 20 in-lb      | 15             | 2-11/16       | 1-5/16              | —            |
| 1/2                  | TEC100    | TEC100FU                   | TEC100L                 | 14 kg•m      | .5 kg•m           | 100 ft-lb   | 2 ft-lb       | 16             | 2-3/4         | 1-3/8               | PBR5         |
| 1/2                  | TEC175    | TEC175FU                   | TEC175L                 | 25 kg•m      | 1 kg•m            | 175 ft-lb   | 5 ft-lb       | 18-3/4         | 2-3/4         | 1-3/8               | PBR5         |
| 1/2                  | TEC250    | TEC250FU                   | TEC250L                 | 35 kg•m      | 1 kg•m            | 250 ft-lb   | 10 ft-lb      | 23-3/4         | 2-3/4         | 1-3/8               | PB8A         |
| 3/4                  | TEC352A   | TEC352FUA                  | TEC352LA                | 50 kg•m      | 1 kg•m            | 350 ft-lb   | 10 ft-lb      | 29-7/8         | 3-1/4         | 1-25/32             | PB39         |
| 3/4                  | TEC602A   | TEC602FUA                  | TEC602LA                | 80 kg•m      | 2 kg•m            | 600 ft-lb   | 20 ft-lb      | 40-7/8         | 3-1/4         | 1-25/32             | PB39         |
| 1                    | TEC803**  | TEC803FU**                 | TEC803L**               | 110 kg•m     | 2 kg•m            | 800 ft-lb   | 25 ft-lb      | 66-13/16       | 3-9/16        | 2-1/32              | —            |
| 1                    | —         | —                          | TEC1003L**              | 136 kg•m     | 2 kg•m            | 1,000 ft-lb | 20 ft-lb      | 66-13/16       | 3-9/16        | 2-1/32              | —            |
| 1                    | —         | TEC1503FU†                 | TEC1503L†               | 200 kg•m     | 5 kg•m            | 1,500 ft-lb | 25 ft-lb      | 80             | 4-13/32       | 2-1/8               | —            |
| 1                    | —         | TEC2003FU†                 | TEC2003L†               | 280 kg•m     | 5 kg•m            | 2,000 ft-lb | 50 ft-lb      | 80             | 4-13/32       | 2-1/8               | —            |
| 1-1/2                | TEC2005†  | TEC2005FU†                 | TEC2005L†               | 280 kg•m     | 5 kg•m            | 2,000 ft-lb | 50 ft-lb      | 80             | 4-13/32       | 2-3/8               | —            |
| 1-1/2                | TEC3005   | TEC3005FU                  | TEC3005L                | 400 kg•m     | 5 kg•m            | 3,000 ft-lb | 50 ft-lb      | 140            | 5-1/2         | 2-13/16             | —            |

\*Does not include square drive dimension.

†Includes separately packed 93TQPA 5' tubular extension handle.

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available.

Basic model= 1 needle

Follow-Up = 2 needles

Signal = signal light

\*\*Includes separately packed 92TQPA 4' tubular extension handle.



TEX602TLA



85TQP



TEX2003TFU

## US Reading/Standard 2% Accuracy

| Input Drive Female Square, inches | Output Drive Male Square, inches | Follow up Models Stock No. | Light Signal Models Stock No. | US Range, ft-lb | US Increments, ft-lb | Length, inches | Width, inches | Head Depth, inches | Increments, ft. lb. | Optional "T" Bars/ Extension Handles |                |             |                            |
|-----------------------------------|----------------------------------|----------------------------|-------------------------------|-----------------|----------------------|----------------|---------------|--------------------|---------------------|--------------------------------------|----------------|-------------|----------------------------|
|                                   |                                  |                            |                               |                 |                      |                |               |                    |                     | "T" Bars                             | Length, inches | Ext. Handle | Ext. Handle Length, inches |
| 3/4                               | 3/4                              | TEX602TFUA *               | TEX602TLA *                   | 600             | 10                   | 9              | 3-1/4         | 3-3/4              | —                   | 81TQP                                | 66             | —           | —                          |
| 3/4                               | 1                                | TEX1003TFUA                | TEX1003TLA                    | 1,000           | 10                   | 9-7/8          | 3-5/8         | 4-1/8              | —                   | 81TQP                                | 66             | —           | —                          |
| 1                                 | 1                                | TEX1503TFU                 | TEX1503TL                     | 1,500           | 25                   | 10-7/8         | 4-3/8         | 4-7/16             | —                   | 82TQP                                | 18             | 85TQP       | 31                         |
| 1                                 | 1                                | TEX2003TFU                 | TEX2003TL                     | 2,000           | —                    | 10-7/8         | 4-3/8         | 4-7/16             | 25                  | 82TQP                                | —              | 85TQP       | 31                         |
| 1                                 | 1-1/2                            | TEX2005TFU                 | TEX2005TL                     | 2,000           | 25                   | 10-7/8         | 4-3/8         | 4-7/16             | —                   | 82TQP                                | 18             | 85TQP       | 31                         |
| 1-1/2                             | 1-1/2                            | TEX3005TFU                 | —                             | 3,000           | 50                   | 12             | 5-1/8         | 6-1/2              | —                   | 83TQP                                | 18             | 87TQP       | 66                         |
| 1-1/2                             | 1-1/2                            | TEX4005TFU                 | TEX4005TL                     | 4,000           | 50                   | 12             | 5-1/8         | 6-1/2              | —                   | 84TQP                                | 20             | 89TQP       | 72                         |

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.

\*T-Bar not included

Basic model= 1 needle

Follow-Up = 2 needles

Signal = signal light



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## T-HANDLE TORQOMETER® TORQUE WRENCHES



TEXC602TFUA



TEXC4005TL

### Combination US/Metric Reading/Standard 2% Accuracy

Optional "T" Bars/  
Extension Handles

| Input Drive Female Square, inches | Output Drive Male Square, inches | Follow-up Models Stock No. | Light Signal Models Stock No. | US Range, ft-lb | US Increments, ft-lb | Metric Range, kg•m | kg•m | Length, inches | Width, inches | Head Depth, inches | "T" Bar | T Bar Length, inches | Ext. Handle | Ext. Handle Length, inches |
|-----------------------------------|----------------------------------|----------------------------|-------------------------------|-----------------|----------------------|--------------------|------|----------------|---------------|--------------------|---------|----------------------|-------------|----------------------------|
| 3/4                               | 3/4                              | TEXC602TFUA                | TEXC602TLA                    | 600             | 20                   | 80                 | 2    | 9              | 3-1/4         | 3-3/4              | 81TQP   | 66                   | —           | —                          |
| 3/4                               | 1                                | TEXC1003TFUA               | TEXC1003TLA                   | 1,000           | 20                   | 136                | 2    | 9-7/8          | 3-5/8         | 4-1/8              | 81TQP   | 66                   | —           | —                          |
| 1                                 | 1                                | TEXC1503TFU                | TEXC1503TL                    | 1,500           | 25                   | 200                | 5    | 10-7/8         | 4-3/8         | 4-7/16             | 85TQP   | 31                   | 82TQP       | 18                         |
| 1                                 | 1                                | TEXC2003TFU                | TEXC2003TL                    | 2,000           | 50                   | 280                | 5    | 10-7/8         | 4-3/8         | 4-7/16             | 82TQP   | 18                   | 85TQP       | 31                         |
| 1                                 | 1-1/2                            | TEXC2005TFU                | TEXC2005TL                    | 2,000           | 50                   | 280                | 5    | 10-7/8         | 4-3/8         | 4-7/16             | 82TQP   | 18                   | 85TQP       | 31                         |
| 1-1/2                             | 1-1/2                            | TEXC3005TFU                | TEXC3005TL                    | 3,000           | 100                  | 400                | 5    | 12             | 5-1/8         | 6-1/2              | 83TQP   | 18                   | 87TQP       | 66                         |
| 1-1/2                             | 1-1/2                            | TEXC4005TFU                | TEXC4005TL                    | 4,000           | 100                  | 550                | 10   | 12             | 5-1/8         | 6-1/2              | 84TQP   | 20                   | 89TQP       | 72                         |

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.

\*T-Bar not included

Basic model= 1 needle

Follow-Up = 2 needles

Signal = signal light

## TORQOMETER® TORQUE DRIVERS – 1/4" DRIVE



TQS012A

### US Reading Standard/2% Accuracy

| Standard Basic Models Stock No. | Standard Follow-up Models Stock No. | Length, inches | Stubby Basic Models Stock No. | Stubby Follow-up Models Stock No. | Length, inches | Range              | Increments           |
|---------------------------------|-------------------------------------|----------------|-------------------------------|-----------------------------------|----------------|--------------------|----------------------|
| TQS004A                         | TQS004FUA                           | 8-5/8          | —                             | TQSS004FUA                        | 5-3/4          | 8 in-oz            | 1/4 in-oz            |
| TQS008A                         | TQS008FUA                           | 7-3/4          | —                             | TQSS008FUA                        | 5-1/4          | 16 in-oz           | 1/2 in-oz            |
| TQS012A                         | TQS012FUA                           | 7-3/4          | TQSS012A                      | TQSS012FUA                        | 5-1/4          | 24 in-oz/1.5 in-lb | 1/2 in-oz/1/32 in-lb |
| TQS025A                         | TQS025FUA                           | 7-3/4          | TQSS025A                      | TQSS025FUA                        | 5-1/4          | 48 in-oz/3 in-lb   | 1 in-oz/1/16 in-lb   |
| TQS050A                         | TQS050FUA                           | 7-3/4          | TQSS050A                      | TQSS050FUA                        | 5-1/4          | 96 in-oz/6 in-lb   | 2 in-oz/1/8 in-lb    |
| TQS1A                           | TQS1FUA                             | 7-3/4          | TQSS1A                        | TQSS1FUA                          | 5-1/4          | 192 in-oz/12 in-lb | 4 in-oz/1/4 in-lb    |
| TQS2A                           | TQS2FUA                             | 7-3/4          | TQSS2A                        | TQSS2FUA                          | 5-1/4          | 384 in-oz/24 in-lb | 8 in-oz/1/2 in-lb    |
| TQS2.5A                         | TQS2.5FUA                           | 7-3/4          | TQSS2.5A                      | TQSS2.5FUA                        | 5-1/4          | 480 in-oz/30 in-lb | 12 in-oz/1 in-lb     |
| TQS4A *                         | TQS4FUA *                           | 8-11/16        | TQSS4A *                      | TQSS4FUA                          | 5-1/4          | 50 in-lb           | 1 in-lb              |
| TQS6A *                         | TQS6FUA *                           | 8-11/16        | TQSS6A *                      | TQSS6FUA                          | 5-1/4          | 75 in-lb           | 1 in-lb              |

\*Includes 1/4" internal square drive in handle

Wrenches in chart do not include certificate of calibration. Wrenches with a certification of calibration are available by adding "C" to the end of the stock number.

All wrenches include PB47 Storage Case.

Basic model = 1 needle

Follow-up = 2 needles



TQSC4FUA

### Combination US/Metric Reading/Standard 2% Accuracy

| Standard Basic Models Stock No. | Standard Follow-up Models Stock No. | Length, inches | Stubby Basic Models Stock No. | Stubby Follow-up Models Stock No. | Length, inches | Range             | Increments            |
|---------------------------------|-------------------------------------|----------------|-------------------------------|-----------------------------------|----------------|-------------------|-----------------------|
| —                               | TQSC1FUA                            | 7-3/4          | —                             | TQSSC1FUA                         | 5-1/4          | 17 kg•cm/15 in-lb | .5 kg•cm/.5 in-lb     |
| —                               | TQSC2.5FUA                          | 7-3/4          | —                             | TQSSC2.5FUA                       | 5-1/4          | 35 kg•cm/30 in-lb | 1.000 kg•cm/1.0 in-lb |
| —                               | TQSC4FUA*                           | 8-11/16        | —                             | TQSSC4FUA*                        | 5-1/4          | 56 kg•cm/50 in-lb | 2 kg•cm/2 in-lb       |
| —                               | TQSC6FUA*                           | —              | —                             | TQSSC6FUA*                        | 5-1/4          | 90 kg•cm/75 in-lb | 3 kg•cm/5 in-lb       |

Wrenches in chart do not include certificate of calibration. Wrenches with a certification of calibration are available by adding "C" to the end of the stock number.

All wrenches include PB47 Storage Case.

Basic model = 1 needle

\*Includes 1/4" internal square drive in handle

Follow-Up = 2 needles

# TORQOMETER® TORQUE DRIVERS – 1/4" DRIVE

TORQUE

## Combination US/Newton Meter Reading/Standard 2% Accuracy\*\*

| Standard Basic Models Stock No. | Standard Follow up Models Stock No. | Length, inches | Stubby Basic Models Stock No. | Stubby Follow up Models Stock No. | Length, inches | Range             | Increments       |
|---------------------------------|-------------------------------------|----------------|-------------------------------|-----------------------------------|----------------|-------------------|------------------|
| —                               | TQSI.34FUA                          | 7-3/4          | —                             | TQSSI.34FUA                       | 5-1/4          | .34 N•m           | .01 N•m          |
| TQSI055A                        | —                                   | 7-3/4          | TQSSI.055A                    | —                                 | 5-1/4          | .055 N•m          | .001 N•m         |
| —                               | TQSI055FUA                          | 7-3/4          | —                             | TQSSI055FUA                       | 5-1/4          | .055 N•m          | .001 N•m         |
| —                               | —                                   | —              | TQSSI.11A                     | —                                 | 5-1/4          | .110 N•m          | .005 N•m         |
| —                               | —                                   | —              | —                             | TQSSI.70FUA                       | 5-1/4          | .70 N•m           | .02 N•m          |
| —                               | TQSI135FUA                          | 7-3/4          | —                             | TQSSI1.35FUA                      | 5-1/4          | 1.35 N•m          | .05 N•m          |
| —                               | TQSR1FUA                            | 7-3/4          | —                             | —                                 | —              | 1.6 N•cm/15 in-lb | 5 N•cm/.25 in-lb |
| —                               | TQSR2.5FUA                          | 7-3/4          | —                             | —                                 | —              | 3.4 N•cm/30 in-lb | .1 N•cm/1 in-lb  |
| —                               | TQSR4FUA*                           | 8-11/16        | —                             | —                                 | —              | 5.5 N•cm/50 in-lb | .1 N•cm/1 in-lb  |
| —                               | TQSR6FUA*                           | 8-11/16        | —                             | —                                 | —              | 8.4 N•cm/75 in-lb | .2 N•cm/5 in-lb  |

\*Includes 1/4" internal square drive in handle.

\*\*Precise 1% models are available on special order.

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.

All wrenches include PB47 Storage Case.

Basic model = 1 needle

ANSI® Spec. B107.300 applies to all these models.

Follow-up = 2 needles

## Torque Angle Gauges

### TA358 3/8" Square Drive Torque Angle Gauge

- Determines angle controlled torque tightening
- Allows user to follow manufacturer's specifications
- Used on automotive, diesel and industrial equipment, plus head bolts and rod bolts on motorcycles

### TA360 1/2" Square Drive Torque Angle Gauge

- Allows user to follow manufacturer's specifications
- Calibrated in degrees in large, easy-to-read increments



TA358

## TORQUE SCREWDRIVER

### TechAngle® Electronic Torque Screwdriver

- Four alert modes (LCD, LED, Audible, Vibratory)
- Advanced features: programmable sleep timer, cycle counter, overload indication, calibration alert, battery level, language selection and torque record memory including 10 presets and storage for up to 50 records
- Three modes of operation: Torque, Angle, Torque Then Angle
- Displays in seven units of measure: in-lb, in-oz, ft-lb, Nm, Kg-cm, cNm and angle
- Guaranteed accuracy +/- 2% CW and 3% CCW at 20–100% of full scale (+/- 4% CW and 6% CCW at 5–19% of full scale)



Approaching Target

Target Achieved

Over Torque



ATECHMS80F

| Stock No.      | Description                                 | Range                   | Increments | Length, inches |
|----------------|---|-------------------------|------------|----------------|
| ATECHMS80F     | 1/4" Hex Electronic Screwdriver (Tool Only) | 4-80 in-lb (0.45-9 N•m) | .01 in-lb  | 7-1/2          |
| ATECHMS80FK    | 1/4" Hex Electronic Screwdriver Kit         | 4-80 in-lb (0.45-9 N•m) | .01 in-lb  | 7-1/2          |
| ATECHMS100F*   | 1/4" Hex Electronic Screwdriver (Tool Only) | 5-100 in-oz             | .01 in-lb  | 7-1/2          |
| ATECHMS80M     | 1/4" Square Electronic Driver (Tool Only)   | 4-80 in-lb (0.45-9 N•m) | .01 in-lb  | 7-1/2          |
| ATECHMS80MK    | 1/4" Square Electronic Driver Kit           | 4-80 in-lb (0.45-9 N•m) | .01 in-lb  | 7-1/2          |
| ATECHMS100M* ‡ | 1/4" Square Electronic Driver (Tool Only)   | 5-100 in-oz             | .01 in-lb  | 7-1/2          |
| MSTECHHDL      | Electronic Driver L-Handle                  | —                       | —          | —              |

\*scales are +/-3% CW and CCW (+/- 5% CW and +/-6% CCW) at 5-19% of full scale.

CE

ASME B107.300-2010



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4



QDRIVER3P

### Preset Torque Screwdrivers

- Ideal for low-torque assemblies and precision application
- Drivers accept all standard 1/4" hex screwdriver bits
- Cam over torque limiting clutch-free wheels when set torque is achieved
- Accuracy is  $\pm 6\%$  from 20–100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features aluminum body with steel shank
- Comfortable ergonomic tri-lobe grip and magnetic bit retention
- Textured body provides a nonslip grip
- Not supplied with Certificate of Calibration
- When ordering, user must designate desired torque rating to be set

| Stock No. | Range, min          | Range, max          | Length, inches |
|-----------|---------------------|---------------------|----------------|
| QDRIVER1P | 6 in-oz (4 N•cm)    | 32 in-oz (22 N•cm)  | 4-9/16         |
| QDRIVER2P | 10 in-oz (7 N•cm)   | 100 in-oz (70 N•cm) | 5-5/8          |
| QDRIVER3P | 1.5 in-lb (16 N•cm) | 15 in-lb (169 N•cm) | 5-5/8          |
| QDRIVER4P | 4 in-lb (45 N•cm)   | 40 in-lb (451 N•cm) | 6              |

ASME® B107.300-2010 Type III, Class A, Style 2, Design A

### Adjustable Torque Screwdrivers

- Ideal for low-torque assemblies, precision applications and dash/under dash work on most domestic and imported vehicles
- Drivers accept all standard 1/4" hex screwdriver bits
- Cam over torque limiting clutch-free wheels when set torque is achieved
- Accuracy is  $\pm 6\%$  from 20–100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features body with steel shank
- Comfortable ergonomic tri-lobe grip and magnetic bit retention
- Textured body provides a nonslip grip



QDRIVER3

| Stock No.  | Range                     | Increments | Length, inches |
|------------|---------------------------|------------|----------------|
| QDRIVER2   | 20–100 in-oz (14–70 N•cm) | 1 in-oz    | 5-7/16         |
| QDRIVER3   | 3–15 in-lb (3–169 N•cm)   | 0.2 in-lb  | 6-1/4          |
| QDRIVER4   | 5–40 in-lb (56–451 N•cm)  | 0.5 in-lb  | 6-11/16        |
| QDRIVER4NM | 50–450 N•cm               | 5.0 N•cm   | 6-11/16        |

ASME® B107.300-2010 Type III, Class A, Style 1, Design A

### TPMS Torque Screwdriver

| Stock No. | Description                        | Range, Dedicated            | Length | Accuracy  |
|-----------|------------------------------------|-----------------------------|--------|-----------|
| QDTPMS35  | TPMS Adjustable Torque Screwdriver | 4 in-lb, 12 in-lb, 35 in-lb | 6-5/8  | $\pm 6\%$ |



QDTPMS35

#### QDTPMS35 TPMS Adjustable Torque Screwdriver

- Highly accurate torque tool intended for maintaining or installing popular styles of tire pressure monitoring sensors
- Manufactured from aircraft-grade aluminum
- Dedicated torque measurements for popular TPMS ratings (4, 12, 35 in-lb)

### Torque Limiting Drivers

| Stock No. | Range, minimum | Range, maximum | Increments | Length, inches |
|-----------|----------------|----------------|------------|----------------|
| QTS135    | 5 in-lb        | 35 in-lb       | 0.5 in-lb  | 7              |
| QTSP135   | 5 in-lb        | 35 in-lb       | 0.5 in-lb  | 7-1/2          |



QTS135

#### QTS135 Adjustable Limiting Driver

- Micrometer-type adjustment
- Clutch allows 25° of free rotation upon reaching the set torque
- Guaranteed accuracy: within  $\pm 4\%$  of setting from 20% of capacity to full capacity clockwise and counterclockwise

#### QTSP135 US Preset Limiting Driver

- Clutch mechanism to help prevent over-torquing by allowing free rotation upon reaching the set torque
- Ideal selection for assembly line work where the same requirement is constant
- Can be reset at different torque values or readjusted for accuracy whenever necessary with a torque tester
- Torque limit is pre-set at the factory so when ordering, user must designate desired torque rating to be set

## Adjustable Torque Drivers (1/4" Square Drive)

| Stock No.   | Range                     | Increments | Length, inches |
|-------------|---------------------------|------------|----------------|
| QDRIVER2A   | 20–100 in-oz (14–70 N•cm) | 1 in-oz    | 5-7/16         |
| QDRIVER3A   | 3–15 in-lb (34–169 N•cm)  | 0.2 in-lb  | 6-1/4          |
| QDRIVER4A   | 5–40 in-lb (56–451 N•cm)  | 0.5 in-lb  | 6-11/16        |
| QDRIVER4NMA | 50–450 N•cm               | 5 N•m      | 6-11/16        |



QDRIVER4NMA

## INTERCHANGEABLE HEADS

### Torque Wrench Bodies/Adjustable

- Interchangeable heads permit ratcheting, fixed- or open-end torquing capability with either adjustable or preset torque wrench bodies
- A push of the locking pin provides quick-change action, with a wide range of head styles to choose from
- Adjustable models provide quick torque settings across the scale range while preset models are dedicated to a single torque measurement (good for repetitive assembly operations)
- Slim profile allows access to tight areas
- Micrometer-style adjustment for fast, accurate torque setting
- All QC series interchangeable torque wrenches are accurate to +/-4% clockwise and +/-6% counterclockwise from 20-100% of full scale
- Tube scales are roll-marked for better permanency and visibility



QC11200

| Stock No. | Model Type | Shank Diameter | Range        | Increments | Length, inches | Storage Case |
|-----------|------------|----------------|--------------|------------|----------------|--------------|
| QC11200   | Adjustable | J (0.425")     | 40–200 in-lb | 1 in-lb    | 9-3/8          | PBQD1        |
| QC2175    | Adjustable | J (0.425")     | 5–75 ft-lb   | .5 ft-lb   | 13             | PBQD2        |

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.



QC1P300



QC3P200

### Torque Wrench Bodies/Preset

| Stock No. | Model Type | Shank Diameter | Range                       | Length, inches |
|-----------|------------|----------------|-----------------------------|----------------|
| QC1P60    | Preset     | J (0.425")     | 10–60 in-lb (1.1–6.8 N•m)   | 6              |
| QC1P100   | Preset     | J (0.425")     | 15–100 in-lb (1.7–11.3 N•m) | 8              |
| QC1P300   | Preset     | J (0.425")     | 60–300 in-lb (6.8–33.9 N•m) | 10             |
| QC2P75    | Preset     | J (0.425")     | 5–75 ft-lb (7–100 N•m)      | 11             |
| QC3P150   | Preset     | Y (0.560")     | 30–150 (41–203)             | 23             |
| QC3P200   | Preset     | Y (0.560")     | 40–200 ft-lb (55–270 N•m)   | 23             |
| QC4P300   | Preset     | X (0.735")     | 60–300 ft-lb (82–400 N•m)   | 27             |

No calibration certificates on preset torque bodies



QD2IN50A



QD3IN200B



QD2IN100A

### Torque Wrench Bodies/Adjustable/Dual Range

- Plug-and-play system of interchangeable heads are consistently sized from pin to the center of the fastener, so no adjustment calculations are needed
- Minimal friction "hour glass" cam retains and releases lubricant where needed to reduce friction
- Push buttons for quick-release of interchangeable head
- Positive stop ensures the instrument cannot be accidentally disassembled if wound down past scale
- Each instrument comes in a molded storage case for long-term protection
- Tube scales are roll-marked for better permanency and visibility
- Includes certificate of calibration

| Stock No. | Range, N•m | Range, ft-lb | Increments        | Shank Type | Weight, lb (kg) | Length, inches (mm) |
|-----------|------------|--------------|-------------------|------------|-----------------|---------------------|
| QD2IN50A  | 10–50      | 9.2–35.0     | 0.5 N•m/0.4 ft-lb | J          | 2.3 (1.12)      | 14-1/2 (368)        |
| QD2IN100A | 20–100     | 16.6–71.9    | 0.5 N•m/0.4 ft-lb | J          | 2.3 (1.12)      | 14-1/2 (368)        |
| QD3IN200B | 40–200     | 37–140       | 2 N•m/1.2 ft-lb   | Y          | 3.36 (1.64)     | 23 (584)            |
| QD3IN350A | 70–350     | 59–251       | 2 N•m/1.2 ft-lb   | X          | 3.36 (1.64)     | 23 (584)            |
| QD4IN800A | 150–800    | 129–572      | 5 N•m/4.3 ft-lb   | Z          | 11.14 (5.46)    | 41-1/2 (1,054)      |

\*For use with dual pin heads only

ASME® B107.300



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## INTERCHANGEABLE HEADS



**QJD12A-80**

### Square Drive Heads/Ratcheting

Allow use of torque wrench bodies on previous page with sockets, crowfoot wrenches or other similar attachment.

| Square Drive, inches | J (0.425")        | Y (0.560")        | X (0.735")       | Z (0.990")      | Head O.D., inches | Depth, inches | Ratchet Service Kit |
|----------------------|-------------------|-------------------|------------------|-----------------|-------------------|---------------|---------------------|
| 1/4                  | <b>QJD8A-72</b>   | —                 | —                | —               | 15/16             | 7/16          | <b>RKRT72A</b>      |
| 1/4                  | <b>QJD8SL-72</b>  | —                 | —                | —               | 15/16             | 7/16          | <b>RKRT72A</b>      |
| 3/8                  | <b>QJD12A-80</b>  | —                 | —                | —               | 1-1/4             | 9/16          | <b>RKRF80</b>       |
| 3/8                  | <b>QJD12SL-80</b> | —                 | —                | —               | 1-1/4             | 9/16          | <b>RKRF80</b>       |
| 3/8                  | —                 | <b>QYD12A-80</b>  | —                | —               | 1-1/4             | 9/16          | <b>RKRF80</b>       |
| 3/8                  | —                 | <b>QYD12SL-80</b> | —                | —               | 1-1/4             | 9/16          | <b>RKRF80</b>       |
| 3/8                  | —                 | —                 | <b>QXD12A-80</b> | —               | 1-1/4             | 9/16          | <b>RKRF80</b>       |
| 1/2                  | <b>QJD16A</b>     | —                 | —                | —               | 1-5/8             | 3/4           | <b>RKRS936</b>      |
| 1/2                  | <b>QJD16SL</b>    | —                 | —                | —               | 1-5/8             | 3/4           | <b>RKRS80A</b>      |
| 1/2                  | —                 | <b>QYD16A</b>     | —                | —               | 1-5/8             | 3/4           | <b>RKRS936</b>      |
| 1/2                  | —                 | <b>QYD16SL</b>    | —                | —               | 1-5/8             | 3/4           | <b>RKRS80A</b>      |
| 1/2                  | —                 | —                 | <b>QXD16A</b>    | —               | 1-5/8             | 3/4           | <b>RKRS80A</b>      |
| 3/4                  | —                 | —                 | <b>QXD24A</b>    | —               | 2-1/2             | 1-1/4         | <b>RKRQC4</b>       |
| 3/4                  | —                 | —                 | —                | <b>QZD24BDP</b> | 2-1/2             | 1-1/4         | <b>RKRQC4</b>       |
| 1                    | —                 | —                 | <b>QXD32A</b>    | <b>QZD32BDP</b> | 2-1/2             | 1-1/2         | <b>RKRQC5</b>       |

Center of Fastener to Retaining Pin

QJD Series – 2.50" QZD Series – 5.75"  
 QYD Series – 3.00" QJD-SL Series – 3.5"  
 QXD Series – 4.50" QYD-SL Series – 4.43"

\*US Patent #6,125,722

Value in parentheses in chart is the Maximum Recommended Working Torque, ft-lb



**QXSD16A**

### Square Drive Heads/Fixed

Allow use of torque wrench bodies on previous page with sockets, crowfoot wrenches or other similar attachments.

| Square Drive, inches | J (0.425")     | Y (0.560")     | X (0.735")     | Z (0.990")       | Head O.D., inches | Depth, inches |
|----------------------|----------------|----------------|----------------|------------------|-------------------|---------------|
| 1/4                  | <b>QJSD8A</b>  | —              | —              | —                | 5/8               | 3/4           |
| 3/8                  | <b>QJSD12A</b> | <b>QYSD12A</b> | —              | —                | 1                 | 1             |
| 1/2                  | <b>QJSD16A</b> | <b>QYSD16A</b> | <b>QXSD16A</b> | —                | 1                 | 1-1/4         |
| 3/4                  | —              | —              | <b>QXSD24A</b> | <b>QZSD24ADP</b> | 1-1/2             | 2             |
| 1                    | —              | —              | <b>QXSD32A</b> | <b>QZSD32ADP</b> | 1-3/4             | 2-1/4         |

Center of Fastener to Retaining Pin

QJD Series – 2.50" QXD Series – 4.50"  
 QYD Series – 3.00" QZD Series – 5.75"

Value in parentheses is the Maximum Recommended Working Torque, ft-lb



**QJBOERM16A**



**QJBOER16A**

### Ratcheting Box End Heads, 12-Point, mm

| mm | J (0.425")        | Y (0.560")        | O.D., mm | Head Depth, mm |
|----|-------------------|-------------------|----------|----------------|
| 10 | <b>QJBOERM10A</b> | —                 | 21.5     | 8              |
| 12 | <b>QJBOERM12A</b> | —                 | 23.5     | 8              |
| 13 | <b>QJBOERM13A</b> | —                 | 25       | 10             |
| 15 | <b>QJBOERM15A</b> | —                 | 28.5     | 11             |
| 16 | <b>QJBOERM16A</b> | <b>QYBOERM16A</b> | 30.5     | 11             |
| 17 | <b>QJBOERM17A</b> | —                 | 32       | 12             |
| 18 | <b>QJBOERM18A</b> | <b>QYBOERM18A</b> | 34.5     | 12             |
| 19 | <b>QJBOERM19A</b> | —                 | 41.7     | 12.9           |
| 22 | <b>QJBOERM22A</b> | —                 | 41.7     | 14.5           |
| 24 | <b>QJBOERM24A</b> | <b>QYBOERM24A</b> | 46.5     | 15.5           |

Center of Fastener to Retaining Pin

QJBOER Series – 2.50"  
 QYBOER Series – 3.0"

### Ratcheting Box End Heads, 12-Point, inches


|       | J (0.425")       | Y (0.560")       | O.D., inches | Head Depth, inches |
|-------|------------------|------------------|--------------|--------------------|
| 5/16  | <b>QJBOER10A</b> | —                | 11/16        | 1/4                |
| 3/8   | <b>QJBOER12A</b> | —                | 27/32        | 5/16               |
| 7/16  | <b>QJBOER14A</b> | —                | 7/8          | 11/32              |
| 1/2   | <b>QJBOER16A</b> | —                | 1-1/32       | 1/4                |
| 9/16  | <b>QJBOER18A</b> | —                | 1-1/16       | 13/32              |
| 5/8   | <b>QJBOER20A</b> | <b>QYBOER20A</b> | 1-3/16       | 7/16               |
| 11/16 | —                | <b>QYBOER22A</b> | 1-1/4        | 15/32              |
| 3/4   | <b>QJBOER24A</b> | <b>QYBOER24A</b> | 1-7/16       | 1/2                |
| 15/16 | <b>QJBOER30A</b> | —                | 1-27/32      | 5/8                |

Center of Fastener to Retaining Pin

QJBOER Series – 2.50"  
 QYBOER Series – 3.0"

# INTERCHANGEABLE HEAD, CLICK-TYPE TORQUE WRENCHES

## Box End Heads, 0° Offset, 12-Point, inches

|  | Stock No. | Shank (dia.) | Maximum Working Torque, ft-lb |
|---|-----------|--------------|-------------------------------|
| 3/8   | QJXD12A   | J (0.425")   | 60                            |
| 7/16  | QJXD14A   | J (0.425")   | 60                            |
| 1/2   | QJXD16A   | J (0.425")   | 60                            |
| 9/16  | QJXD18A   | J (0.425")   | 60                            |
| 11/16   | QJXD22A   | J (0.425")   | 60                            |
| 3/4   | QJXD24A   | J (0.425")   | 60                            |
| 7/8   | QJXD28A   | J (0.425")   | 60                            |
| 15/16   | QJXD30A   | J (0.425")   | 60                            |
| 1   | QJXD32A   | J (0.425")   | 60                            |
| 7/8   | QYXD28A   | Y (0.560")   | 160                           |
| 15/16   | QXXD30A   | X (0.735")   | 240                           |
| 1-1/8   | QXXD36A   | X (0.735")   | 240                           |
| 5/8   | QYXD20A   | Y (0.560")   | 160                           |
| 11/16   | QYXD22A   | Y (0.560")   | 160                           |
| 3/4   | QYXD24A   | Y (0.560")   | 160                           |
| 15/16   | QYXD30A   | Y (0.560")   | 160                           |

Center of fastener to retaining pin:

- QJXD Series: 2.50"
- QYXD Series: 3.00"

## Box End Heads, 10° Offset, 12-Point, inches

|  | Stock No. | Shank (dia.) | Maximum Working Torque, ft-lb |
|--|-----------|--------------|-------------------------------|
| 1/2  | QJXB16A   | J (0.425")   | 60                            |
| 9/16   | QJXB18A   | J (0.425")   | 60                            |
| 5/8  | QJXB20A   | J (0.425")   | 60                            |
| 11/16  | QJXB22A   | J (0.425")   | 60                            |
| 3/4  | QJXB24A   | J (0.425")   | 60                            |
| 1-3/8  | QXXB44A   | X (0.735")   | 240                           |
| 1-1/2  | QXXB48A   | X (0.735")   | 240                           |
| 5/8  | QYXB20A   | Y (0.560")   | 79                            |
| 3/4  | QYXB24A   | Y (0.560")   | 160                           |
| 7/8  | QYXB28A   | Y (0.560")   | 160                           |
| 15/16  | QYXB30A   | Y (0.560")   | 160                           |
| 1  | QYXB32A   | Y (0.560")   | 160                           |
| 1-1/8  | QYXB36A   | Y (0.560")   | 160                           |

Center of fastener to retaining pin:

- QJXB Series: 2.50"
- QYXB Series: 3.00"



QYSBXM18A


## Box End Heads, 10° Offset, 12-Point, mm

|  | Stock No. | Shank (dia.) | Maximum Working Torque, ft-lb |
|---|-----------|--------------|-------------------------------|
| 11  | QJXBM11A  | J (0.425")   | 59                            |
| 12  | QJXBM12A  | J (0.425")   | 60                            |
| 13  | QJXBM13A  | J (0.425")   | 60                            |
| 14  | QJXBM14A  | J (0.425")   | 60                            |
| 15  | QJXBM15A  | J (0.425")   | 60                            |
| 16  | QJXBM16A  | J (0.425")   | 60                            |
| 18  | QJXBM18A  | J (0.425")   | 60                            |
| 19  | QJXBM19A  | J (0.425")   | 60                            |
| 18  | QYXBM18A  | Y (0.560")   | 160                           |
| 24  | QYXBM24A  | Y (0.560")   | 160                           |
| 28  | QYXBM28A  | Y (0.560")   | 160                           |

Center of fastener to retaining pin:

- QJXBM Series: 2.50"
- QYXBM Series: 3.00"

## Box End Heads, 40° Bend, 12-Point, mm

|  | Stock No. | Shank (dia.) | Center of Fastener to Retaining Pin |
|--|-----------|--------------|-------------------------------------|
| 18   | QYSBXM18A | Y (0.560")   | QYSBXM Series – 3.00"               |
| 24   | QYSBXM24A | Y (0.560")   | QYSBXM Series – 3.00"               |

Center of fastener to retaining pin:

- QYSBXM Series: 3.00"

## ISO/IZO Ratchet Head Inserts

| Stock No.   | Square Drive, inches (mm) | Width, mm | Insert Size, mm | Max Recommended Working Torque, N•m |
|-------------|---------------------------|-----------|-----------------|-------------------------------------|
| IZTRAT9X12  | 1/4 (6)                   | 37        | 9 x 12          | 25                                  |
| IZFRAT9X12  | 3/8 (10)                  | 38        | 9 x 12          | 160                                 |
| IZSRAT9X12  | 1/2 (13)                  | 38        | 9 x 12          | 160                                 |
| IZSRAT14X18 | 1/2 (13)                  | 40        | 14 x 18         | 265                                 |
| IZLRAT14X18 | 3/4 (19)                  | 40        | 14 x 18         | 960                                 |
| QIZ16Q14X18 | 1/2 (13)                  | 40        | 14 x 18         | 265                                 |

## IZO Torque Insert Heads

| Stock No.   | Description             |
|-------------|-------------------------|
| IZ70E9X12   | 7 mm OE insert 9 x 12   |
| IZ80E9X12   | 8 mm OE insert 9 x 12   |
| IZ90E9X12   | 9 mm OE insert 9 x 12   |
| IZ100E9X12  | 10 mm OE insert 9 x 12  |
| IZ110E9X12  | 11 mm OE insert 9 x 12  |
| IZ130E9X12  | 13 mm OE insert 9 x 12  |
| IZ140E9X12  | 14 mm OE insert 9 x 12  |
| IZ150E9X12  | 15 mm OE insert 9 x 12  |
| IZ160E9X12  | 16 mm OE insert 9 x 12  |
| IZ170E9X12  | 17 mm OE insert 9 x 12  |
| IZ180E9X12  | 18 mm OE insert 9 x 12  |
| IZ190E9X12  | 19 mm OE insert 9 x 12  |
| IZ130E14X18 | 13 mm OE insert 14 x 18 |
| IZ140E14X18 | 14 mm OE insert 14 x 18 |
| IZ150E14X18 | 15 mm OE insert 14 x 18 |

| Stock No.   | Description              |
|-------------|--------------------------|
| IZ170E14X18 | 17 mm OE insert 14 x 18  |
| IZ180E14X18 | 18 mm OE insert 14 x 18  |
| IZ190E14X18 | 19 mm OE insert 14 x 18  |
| IZ220E14X18 | 22 mm OE insert 14 x 18  |
| IZ240E14X18 | 24 mm OE insert 14 x 18  |
| IZ270E14X18 | 27 mm OE insert 14 x 18  |
| IZ300E14X18 | 30 mm OE insert 14 x 18  |
| IZ320E14X18 | 32 mm OE insert 14 x 18  |
| IZ360E14X18 | 36 mm OE insert 14 x 18  |
| IZ10IR9X12  | 10 mm Insert Ring 9 x 12 |
| IZ11IR9X12  | 11 mm Insert Ring 9 x 12 |
| IZ12IR9X12  | 12 mm Insert Ring 9 x 12 |
| IZ13IR9X12  | 13 mm Insert Ring 9 x 12 |
| IZ14IR9X12  | 14 mm Insert Ring 9 x 12 |
| IZ15IR9X12  | 15 mm Insert Ring 9 x 12 |

| Stock No.   | Description               |
|-------------|---------------------------|
| IZ17IR9X12  | 17 mm Insert Ring 9 x 12  |
| IZ19IR9X12  | 19 mm Insert Ring 9 x 12  |
| IZ13IR14X18 | 13 mm Insert Ring 14 x 18 |
| IZ14IR14X18 | 14 mm Insert Ring 14 x 18 |
| IZ15IR14X18 | 15 mm Insert Ring 14 x 18 |
| IZ17IR14X18 | 17 mm Insert Ring 14 x 18 |
| IZ19IR14X18 | 19 mm Insert Ring 14 x 18 |
| IZ22IR14X18 | 22 mm Insert Ring 14 x 18 |
| IZ24IR14X18 | 24 mm Insert Ring 14 x 18 |
| IZ27IR14X18 | 27 mm Insert Ring 14 x 18 |
| IZ30IR14X18 | 30 mm Insert Ring 14 x 18 |
| IZ32IR14X18 | 32 mm Insert Ring 14 x 18 |
| IZ36IR14X18 | 36 mm Insert Ring 14 x 18 |
| IZWI9X12    | Welding insert 9 x 12     |
| IZWI14X18   | Welding insert 14 x 18    |



- Do not exceed rated capacity
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# INTERCHANGEABLE HEADS





**QYOM32A**

Center of fastener to retaining pin:


- QJO Series: 2.50"
- QYO Series: 3.00"


## Thin Open End Heads, inches

|  | Stock No.          | Shank (dia.) | Maximum Working Torque, ft-lb |
|---|--------------------|--------------|-------------------------------|
| 9/16  | <b>QJO18ARTH</b>   | J (0.425")   | 60                            |
| 11/16   | <b>QJO22ARTH60</b> | J (0.425")   | 60                            |
| 1   | <b>QJO32ARTH</b>   | J (0.425")   | 60                            |
| 1-1/16  | <b>QJO34ARTH</b>   | J (0.425")   | 60                            |
| 1-1/8   | <b>QJO36ARTH</b>   | J (0.425")   | 60                            |
| 1-3/16  | <b>QJO38ARTH</b>   | J (0.425")   | 60                            |
| 1-1/4   | <b>QJO40ARTH</b>   | J (0.425")   | 60                            |
| 1-3/8   | <b>QJO44ARTH</b>   | J (0.425")   | 60                            |
| 1-1/2   | <b>QJO48ARTH</b>   | J (0.425")   | 60                            |
| 1-9/16  | <b>QJO50ARTH</b>   | J (0.425")   | 60                            |
| 1-5/8   | <b>QJO52ARTH</b>   | J (0.425")   | 60                            |
| 1-11/16   | <b>QJO54ARTH</b>   | J (0.425")   | 60                            |
| 1-3/4   | <b>QJO56ARTH</b>   | J (0.425")   | 60                            |
| 1-7/8   | <b>QJO60ARTH</b>   | J (0.425")   | 60                            |


|  | Stock No.        | Shank (dia.) | Maximum Working Torque, ft-lb |
|---|------------------|--------------|-------------------------------|
| 2   | <b>QJO64ARTH</b> | J (0.425")   | 60                            |
| 2-1/16  | <b>QJO66ARTH</b> | J (0.425")   | 60                            |
| 2-1/8   | <b>QJO68ARTH</b> | J (0.425")   | 60                            |
| 2-11/16   | <b>QJO86ARTH</b> | J (0.425")   | 60                            |
| 1-3/8   | <b>QYO44ARTH</b> | J (0.425")   | 60                            |
| 1-1/2   | <b>QYO48ARTH</b> | Y (0.560")   | 160                           |
| 1-9/16  | <b>QYO50ARTH</b> | Y (0.560")   | 160                           |
| 1-5/8   | <b>QYO52ARTH</b> | Y (0.560")   | 160                           |
| 1-3/4   | <b>QYO56ARTH</b> | Y (0.560")   | 160                           |
| 1-7/8   | <b>QYO60ARTH</b> | Y (0.560")   | 160                           |
| 2   | <b>QYO64ARTH</b> | Y (0.560")   | 160                           |
| 2-1/8   | <b>QYO68ARTH</b> | Y (0.560")   | 160                           |
| 2-1/4   | <b>QYO72ARTH</b> | Y (0.560")   | 160                           |

## Thin Open End Heads, mm

|  | Stock No.         | Shank (dia.) | Maximum Working Torque, ft-lb |
|---|-------------------|--------------|-------------------------------|
| 17  | <b>QJOM17ARTH</b> | J (0.425")   | 60                            |
| 18  | <b>QJOM18ARTH</b> | —            | —                             |

|  | Stock No.         | Shank (dia.) | Maximum Working Torque, ft-lb |
|---|-------------------|--------------|-------------------------------|
| 46  | <b>QJOM46ARTH</b> | —            | —                             |

## Open End Heads, mm

|  | J (0.425")          | Y (0.560")                                   | X (0.735")           | Z (0.990")             | O.D., mm | Head Depth, mm |
|---|---------------------|--|----------------------|------------------------|----------|----------------|
| 6   | <b>QJOM6A (5)</b>   | —  | —                    | —                      | 13       | 4              |
| 7   | <b>QJOM7A (6)</b>   | —  | —                    | —                      | 15       | 4              |
| 8   | <b>QJOM8A (10)</b>  | —  | —                    | —                      | 17       | 4              |
| 9   | <b>QJOM9A (14)</b>  | —  | —                    | —                      | 19       | 5              |
| 10  | <b>QJOM10A (22)</b> | —  | —                    | —                      | 21       | 5              |
| 11  | <b>QJOM11A (33)</b> | —  | —                    | —                      | 23       | 6              |
| 12  | <b>QJOM12A (36)</b> | —  | —                    | —                      | 25       | 6              |
| 13  | <b>QJOM13A (41)</b> | —  | —                    | —                      | 27       | 6              |
| 14  | <b>QJOM14A (55)</b> | <b>QYOM14A (55)</b>                          | —                    | —                      | 29       | 7              |
| 15  | <b>QJOM15A (60)</b> | <b>QYOM15A (74)</b>                          | —                    | —                      | 31       | 7              |
| 16  | <b>QJOM16A (60)</b> | <b>QYOM16A (88)</b>                          | —                    | —                      | 33       | 7              |
| 17  | <b>QJOM17A (60)</b> | <b>QYOM17A (103)</b>                         | <b>QXOM17A (103)</b> | —                      | 35       | 8              |
| 18  | <b>QJOM18A (60)</b> | <b>QYOM18A (115)</b>                         | <b>QXOM18A (115)</b> | —                      | 37       | 8              |
| 19  | <b>QJOM19A (60)</b> | <b>QYOM19A (138)</b>                         | <b>QXOM19A (138)</b> | —                      | 39       | 9              |
| 20  | <b>QJOM20A (60)</b> | <b>QYOM20A (160)</b>                         | <b>QXOM20A (160)</b> | —                      | 41       | 9              |
| 21  | <b>QJOM21A (60)</b> | <b>QYOM21A (160)</b>                         | <b>QXOM21A (180)</b> | —                      | 43       | 9              |
| 22  | <b>QJOM22A (60)</b> | <b>QYOM22A (160)</b>                         | <b>QXOM22A (206)</b> | —                      | 46       | 10             |
| 23  | <b>QJOM23A (60)</b> | <b>QYOM23A (160)</b>                         | <b>QXOM23A (229)</b> | —                      | 47       | 10             |
| 24  | <b>QJOM24A (60)</b> | <b>QYOM24A (160)</b>                         | <b>QXOM24A (240)</b> | <b>QZOM24ADP (250)</b> | 49       | 11             |
| 25  | <b>QJOM25A (60)</b> | <b>QYOM25A (160)</b>                         | <b>QXOM25A (240)</b> | <b>QZOM25ADP (275)</b> | 52       | 11             |
| 26  | <b>QJOM26A (60)</b> | <b>QYOM26A (160)</b>                         | <b>QXOM26A (240)</b> | <b>QZOM26ADP (298)</b> | 53       | 11             |
| 27  | <b>QJOM27A (60)</b> | <b>QYOM27A (160)</b>                         | <b>QXOM27A (240)</b> | <b>QZOM27ADP (319)</b> | 55       | 12             |
| 29  | —                   | <b>QYOM29A (160)</b>                         | <b>QXOM29A (240)</b> | <b>QZOM29ADP (379)</b> | 58       | 12             |
| 30  | <b>QJOM30 (60)</b>  | <b>QYOM30A (160)</b>                         | <b>QXOM30A (240)</b> | <b>QZOM30ADP (413)</b> | 61       | 13             |
| 32  | <b>QJOM32 (60)</b>  | <b>QYOM32A (160)</b>                         | <b>QXOM32A (240)</b> | <b>QZOM32ADP (480)</b> | 65       | 14             |
| 34  | —                   | <b>QYOM34A (160)</b>                         | <b>QXOM34A (240)</b> | <b>QZOM34ADP (480)</b> | 68       | 14             |
| 36  | <b>QJOM36A (60)</b> | <b>QYOM36A (160)</b>                         | <b>QXOM36A (240)</b> | <b>QZOM36ADP (480)</b> | 74       | 15             |
| 41  | —                   | <b>QYOM41 (160)</b>                          | <b>QXOM41A (240)</b> | <b>QZOM41ADP (480)</b> | 83       | 18             |
| 46  | —                   | —  | <b>QXOM46A (240)</b> | <b>QZOM46ADP (480)</b> | 93       | 19             |
| 49  | —                   | —  | <b>QXOM49A (240)</b> | —                      | 86       | 18             |
| 50  | —                   | <b>QYOM50A (160)</b>                         | —                    | <b>QZOM50ADP (480)</b> | 102      | 20             |
| 55  | —                   | —  | <b>QXOM55A (240)</b> | <b>QZOM55ADP (480)</b> | 113      | 23             |
| 60  | —                   | <b>QYOM60A (160)</b><br><b>QXOM60A (240)</b> | —                    | <b>QZOM60ADP (480)</b> | 125      | 27             |
| 65  | —                   | —  | —                    | <b>QZOM65ADP (480)</b> | 130      | 26             |
| 70  | —                   | —  | —                    | <b>QZOM70ADP (480)</b> | 169      | 31             |

Center of fastener to retaining pin:


- QJOM Series: 2.50"
- QYOM Series: 3.00"
- QXOM Series: 4.50"
- QZOM Series: 5.75"

\*Use with QC1P100 and QC1I200 torque bodies only; other heads may be used with all listed torque bodies

Value in parentheses is the Maximum Recommended Working Torque, ft-lb.



## Open End Heads, inches

|  | J (0.425")  | Y (0.560")   | X (0.735")   | Z (0.990")     | O.D., inches | Head Depth, inches |
|---|-------------|--------------|--------------|----------------|--------------|--------------------|
| 1/4   | QJ08A (5)   | —            | —            | —              | 17/32        | 9/64               |
| 9/32  | QJ09A (7)   | —            | —            | —              | 21/32        | 5/32               |
| 5/16  | QJ010A (9)  | —            | —            | —              | 21/32        | 11/64              |
| 3/8   | QJ012A (18) | —            | —            | —              | 25/32        | 11/64              |
| 7/16  | QJ014A (26) | —            | —            | —              | 29/32        | 11/64              |
| 1/2   | QJ016A (34) | QY016A (58)  | —            | —              | 1-1/16       | 11/64              |
| 9/16  | QJ018A (58) | QY018A (58)  | —            | —              | 1-1/16       | 9/32               |
| 5/8   | QJ020A (60) | QY020A (70)  | —            | —              | 1-5/16       | 9/32               |
| 11/16   | QJ022A (60) | QY022A (99)  | —            | —              | 1-7/16       | 5/16               |
| 3/4   | QJ024A (60) | QY024A (125) | QX024A (125) | —              | 1-19/32      | 11/32              |
| 13/16   | QJ026A (60) | QY026A (160) | QX026A (164) | —              | 1-23/32      | 3/8                |
| 7/8   | QJ028A (60) | QY028A (160) | —            | —              | 1-23/32      | 3/8                |
| 15/16   | QJ030A (60) | QY030A (160) | QX030A (200) | —              | 1-29/32      | 13/32              |
| 1   | QJ032A (60) | QY032A (160) | QX032A (240) | QZO32ADP (298) | 2-1/32       | 7/16               |
| 1-1/16  | QJ034A (60) | QY034A (160) | QX034A (240) | QZO34ADP (480) | 2-3/16       | 15/32              |
| 1-1/8   | QJ036A (60) | QY036A (160) | QX036A (240) | QZO36ADP (367) | 2-5/16       | 15/32              |
| 1-3/16  | —           | QY038A (160) | QX038A (240) | QZO38ADP (433) | 2-7/16       | 1/2                |
| 1-1/4   | QJ040A (60) | QY040A (160) | QX040A (240) | QZO40ADP (480) | 2-9/16       | 17/32              |
| 1-5/16  | —           | QY042A (160) | QX042A (240) | QZO42ADP (480) | 2-21/32      | 9/16               |
| 1-3/8   | QJ044A (60) | QY044A (160) | QX044A (240) | QZO44ADP (480) | 2-3/16       | 19/32              |
| 1-7/16  | —           | QY046A (160) | QX046A (240) | QZO46ADP (480) | 3            | 19/32              |
| 1-1/2   | QJ048A (60) | QY048A (160) | QX048A (240) | QZO48ADP (480) | 3-1/16       | 5/8                |
| 1-9/16  | —           | QY050A (160) | QX050A (240) | QZO50ADP (480) | 3-3/16       | 21/32              |
| 1-5/8   | QJ052A (60) | QY052A (160) | QX052A (240) | QZO52ADP (480) | 3-11/32      | 11/16              |
| 1-11/16   | —           | —            | QX054A (240) | QZO54ADP (480) | 3-13/32      | 23/32              |
| 1-3/4   | —           | QY056A (240) | QX056A (240) | QZO56ADP (480) | 3-9/16       | 23/32              |
| 1-13/16   | —           | —            | QX058A (240) | QZO58ADP (480) | 3-21/32      | 13/32              |
| 1-7/8   | —           | QY060A (240) | QX060A (240) | QZO60ADP (480) | 3-13/16      | 25/32              |
| 2   | —           | —            | QX064A (240) | QZO64ADP (480) | 4-1/16       | 27/32              |
| 2-1/16  | —           | —            | QX066A (240) | QZO66ADP (480) | 4-3/16       | 27/32              |
| 2-1/8   | —           | —            | —            | QZO68ADP (480) | 4-5/16       | 5/8                |
| 2-1/4   | —           | QY072 (240)  | —            | QZO72ADP (480) | 4-9/16       | 15/16              |
| 2-3/8   | —           | —            | —            | QZO76ADP (480) | —            | —                  |
| 2-1/2   | —           | —            | —            | QZO80ADP (480) | 5-1/16       | 1                  |
| 2-7/8   | —           | QY092 (240)  | —            | —              | 5-31/32      | 5/8                |



**QJ028A**

Center of fastener to retaining pin:

- QJO Series: 2.50"
- QYO Series: 3.00"
- QXO Series: 4.50"
- QZO Series: 5.75"

\*Use with QC1P100 and QC1I200 torque bodies only; other heads may be used with all listed torque bodies

Value in parentheses is the Maximum Recommended Working Torque, ft-lb.



- Do not exceed rated capacity
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## INTERCHANGEABLE HEADS



QZD32A-1

### Adaptor

#### QZD32A-1 Adaptor

- Adaptor Z Shank to 1" Drive



RTWH28JSL




RPWH128Z

### Ratcheting Pipe Wrench Head, inches

| Size, inches | Stock No. | Shank (dia.) |
|--------------|-----------|--------------|
| 2            | RPWH128Z  | Z (0.990")   |


### Ratcheting Flare Nut Heads, 12-Point, inches

|  | J (0.425") | Y (0.560") |
|---|------------|------------|
| 7/16  | RTWH28JSL  | —          |
| 1/2   | RTWH32JSL  | —          |
| 9/16  | RTWH36JSL  | RTWH36YSL  |
| 5/8   | RTWH40JSL  | RTWH40YSL  |
| 11/16   | RTWH44JSL  | RTWH44YSL  |
| 3/4   | RTWH48JSL  | RTWH48YSL  |
| 13/16   | RTWH52JSL  | RTWH52YSL  |
| 7/8   | RTWH56JSL  | RTWH56YSL  |
| 3/8   | —          | RTWH24YSL  |
| 15/16   | —          | RTWH60YSL  |
| 1   | —          | RTWH64YSL  |
| 1-1/16  | —          | RTWH68YSL  |
| 1-1/8   | —          | RTWH72YSL  |
| 1-1/4   | —          | RTWH80YSL  |
| 1-3/8   | —          | RTWH88YSL  |
| 1-1/2   | —          | RTWH96YSL  |
| 1-5/8   | —          | RTWH104YSL |



RTWHM16JSL


### Ratcheting Flare Nut Heads, 12-Point, mm

|  | Stock No.  | Shank (dia.) |
|--|------------|--------------|
| 16   | RTWHM16JSL | J (0.425")   |

Center of fastener to retaining pin:


- RTWHMJ: 3.51"
- RTWHJ: 3.50"
- RTWHY: 4.43"

### Flare Nut Heads, 6-Point, mm

|  | J (0.425")     | Y (0.560")      | O.D., mm | Head Depth, mm |
|---|----------------|-----------------|----------|----------------|
| 8   | QJRXSM8A (17)  | —               | 17       | 7              |
| 9   | QJRXSM9A (25)  | —               | 18       | 7              |
| 10  | QJRXSM10A (33) | —               | 20       | 8              |
| 11  | QJRXSM11A (42) | —               | 21       | 9              |
| 12  | QJRXSM12A (50) | —               | 22       | 9              |
| 13  | QJRXSM13A (58) | QYRXSM13A (58)  | 24       | 9              |
| 14  | QJRXSM14A (60) | —               | 25       | 10             |
| 15  | QJRXSM15A (60) | QYRXSM15A (71)  | 26       | 10             |
| 16  | QJRXSM16A (60) | QYRXSM16A (75)  | 27       | 11             |
| 17  | QJRXSM17A (60) | QYRXSM17A (83)  | 29       | 11             |
| 18  | QJRXSM18A (60) | QYRXSM18A (94)  | 30       | 12             |
| 19  | QJRXSM19A (60) | QYRXSM19A (104) | 32       | 12             |
| 20  | QJRXSM20A      | QYRXSM20A (113) | 33       | 13             |
| 21  | —              | QYRXSM21A       | 34       | 13             |


Value in parentheses is the Maximum Recommended Torque, ft-lb.

### Flare Nut Heads, 6-Point, inches

|  | J (0.425")    | Y (0.560")     | O.D., inches | Head Depth, inches |
|---|---------------|----------------|--------------|--------------------|
| 1/4   | QJRXS8A (6)   | —              | 19/32        | 1/4                |
| 5/16  | QJRXS10A (17) | —              | 21/32        | 9/32               |
| 3/8   | QJRXS12A (29) | —              | 3/4          | 5/16               |
| 7/16  | QJRXS14A (42) | —              | 27/32        | 11/32              |
| 1/2   | QJRXS16A (54) | —              | 29/32        | 3/8                |
| 9/16  | QJRXS18A (60) | QYRXS18A (67)  | 1            | 13/32              |
| 5/8   | QJRXS20A (60) | QYRXS20A (74)  | 1-3/32       | 7/16               |
| 11/16   | QJRXS22A (60) | QYRXS22A (92)  | 1-5/32       | 15/32              |
| 3/4   | QJRXS24A (60) | QYRXS24A (104) | 1-1/4        | 1/2                |
| 13/16   | QJRXS26A (60) | QYRXS26A (117) | 1-5/16       | 7/32               |
| 7/8   | QJRXS28A (60) | QYRXS28A (133) | 1-13/32      | 9/16               |
| 15/16   | QJRXS30A (60) | QYRXS30A (146) | 1-1/2        | 19/32              |
| 1   | QJRXS32A (60) | QYRXS32A (158) | 1-9/16       | 5/8                |
| 1-1/8   | —             | QYRXS36A (160) | 1-3/4        | 11/16              |

Value in parentheses is the Maximum Recommended Working Torque, ft-lb.

## Flare Nut Heads, 12-Point, inches

|  | Shank Dia. Y (0.560") | O.D., inches | Head Depth, inches |
|---|-----------------------|--------------|--------------------|
| 9/16  | QYRX18A (67)          | 31/32        | 13/32              |
| 11/16   | QYRX22A (92)          | 1-7/32       | 1/2                |
| 1-3/8   | QYRX44A (160)         | 2            | 13/16              |
| 1-1/2   | QYRX48A (160)         | 2-5/32       | 27/32              |
| 1-5/8   | QYRX52A (160)         | 2-11/32      | 1                  |
| 2-1/4   | QYRX72A (160)         | 3-1/2        | 1-9/16             |
| 5/8   | QYRX20A (79)          | 1-1/16       | 15/32              |
| 3/4   | QYRX24A (104)         | 1-1/4        | 17/32              |
| 13/16   | QYRX26A (117)         | 1-9/32       | 9/16               |
| 7/8   | QYRX28A (133)         | 1-13/32      | 1-3/8              |
| 15/16   | QYRX30A (146)         | 1-7/32       | 23/32              |
| 1   | QYRX32A (158)         | 1-7/32       | 23/32              |
| 1-1/16  | QYRX34A (160)         | 1-5/8        | 23/32              |
| 1-1/8   | QYRX36A (160)         | 1-23/32      | 3/4                |
| 1-3/16  | QYRX38A (160)         | 1-13/16      | 7/8                |
| 1-1/4   | QYRX40A (160)         | 1-27/32      | 23/32              |



**QYRX18A**

Center of fastener to retaining pin:

- QJRXSM Series: 2.50"
- QYRXSM Series: 3.00"
- QJRXS Series: 2.50"
- QYRXS Series: 3.00"
- QYRX Series: 3.00"

Value in parentheses is the Maximum Recommended Torque, ft-lb.

## GEARED HEAD MULTIPLIERS



**MTMB1990**



**MTMC1475**



**MTMP4400**

## Manual Torque Multipliers

- Ideal for use in the oil and gas industry, mining, railroad, heavy fleet, power gen and aviation
- Compact dimensions allow excellent access and easy handling
- Maximum torque output range from 730–25,000 ft-lb (MTMP25000)
- Anti-Wind-Up Ratchet (AWUR) fitted as standard, except for MTMB740, MTMB950 and MTMB1990; keeps the multiplier loaded for easier operation
- MTMC units are calibrated to give exact multiplication ratio, and each MTMC unit is issued with unique Certificate of Calibration
- True torque multiplication, accuracy guaranteed better than  $\pm 4\%$
- A variety of alternative reaction fixtures is available

| Specifications                    | MTMC730         | MTMC1475        | MTMC2950        | MTMC5100        | MTMB2200 | MTMB3300 |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|----------|----------|
| Reaction Type                     | Interchangeable | Interchangeable | Interchangeable | Interchangeable | Bar      | Bar      |
| Torque Ratio                      | 22:1            | 27:1            | 25:1            | 25:1            | 15.5:1   | 26:1     |
| Certification                     | Yes             | Yes             | Yes             | Yes             | No       | No       |
| Anti-Wind-Up                      | Yes             | Yes             | Yes             | Yes             | Yes      | Yes      |
| Torque Output, Minimum ft-lb      | 74              | 147             | 295             | 516             | 220      | 330      |
| Torque Output, Maximum ft-lb      | 730             | 1,475           | 2,950           | 5,100           | 2,200    | 3,300    |
| Torque Output, Minimum N•m        | 100             | 200             | 400             | 700             | 300      | 450      |
| Torque Output, Maximum N•m        | 1,000           | 2,000           | 4,000           | 7,000           | 3,000    | 4,500    |
| Input Drive Female Square, inches | 3/8             | 1/2             | 1/2             | 1/2             | 1/2      | 1/2      |
| Output Drive Male Square, inches  | 3/4             | 1               | 1               | 1-1/2           | 1        | 1        |

| Specifications                    | MTMB740         | MTMB950         | MTMB1990        | MTMP4400 | MTMP7000 | MTMP14700 | MTMP25000 |
|-----------------------------------|-----------------|-----------------|-----------------|----------|----------|-----------|-----------|
| Reaction Type                     | Bar and Cranked | Bar and Cranked | Bar and Cranked | Plate    | Plate    | Plate     | Plate     |
| Torque Ratio                      | 5:1             | 5:1             | 5:1             | 25:1     | 125:1    | 125:1     | 87.5:1    |
| Certification                     | No              | No              | No              | No       | No       | No        | No        |
| Anti-Wind Up                      | —               | —               | —               | Yes      | Yes      | Yes       | Yes       |
| Torque Output, Minimum ft-lb      | 74              | 96              | 200             | 450      | 700      | 1470      | 2,500     |
| Torque Output, Maximum ft-lb      | 740             | 950             | 1,990           | 4,400    | 7,000    | 14,700    | 25,000    |
| Torque Output, Minimum N•m        | 100             | 130             | 270             | 610      | 950      | 2,000     | 3,400     |
| Torque Output, Maximum N•m        | 1,000           | 1,300           | 2,700           | 6,000    | 9,500    | 20,000    | 34,000    |
| Input Drive Female Square, inches | 1/2             | 1/2             | 3/4             | 1/2      | 1/2      | 1/2       | 3/4       |
| Output Drive Male Square, inches  | 3/4             | 3/4             | 1               | 1-1/2    | 1-1/2    | 2-1/2     | 2-1/2     |



- Do not exceed rated capacity
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## ELECTRONIC TORQUE WRENCHES



ED2600

### Electronic Dial-Type Torque Wrenches

The straightforward design provides easy setup and usage. There is no need to look directly at the digital display, as the wrench features a three-step LED light bar: a yellow LED warns when the target torque is approaching, a green light illuminates when the target is reached, and a red light indicates over-torque. In addition to the readout and LED's, a buzzer sounds when the desired torque value is reached.

#### Features:

- Four units of torque: in-lb, ft-lb, N•m, kg•cm
- Three models available, from 5–600 in-lb
- Accuracy:  $\pm 1\%$  of indicated value CW and  $\pm 2\%$  CCW, from 20–100% of full scale
- Accuracy:  $\pm 2\%$  of indicated value CW and  $\pm 2\%$  CCW, from 10–19% of full scale
- Three-step LED visual light system: YELLOW LIGHT = approaching target torque, GREEN LIGHT = target torque reached, RED LIGHT = over torque indicator
- Audible tone sounds when the desired torque is reached
- Display can be rotated 180° to allow for left-hand use
- Battery cover is designed to be aviation FOD proof
- Holds “peak” torque reading for 10 seconds
- Resistant to the majority of chemicals used in industrial environments
- Wrench can be hung on a tool board
- Uses one standard 9 V alkaline battery
- NIST® traceable Certificate of Calibration included
- Meets or exceeds ASME® B107.28-2010

| Stock No. | Square Drive, inches | in-lb  | ft-lb      | N•m        | kg-cm     | Length, inches (mm) | Weight, lb (kg) | Storage Case |
|-----------|----------------------|--------|------------|------------|-----------|---------------------|-----------------|--------------|
| ED1050    | 1/4                  | 5–50   | .42–4.17   | .56–5.65   | 5.7–57.61 | 11.5 (292)          | 1.25 (.57)      | PBED1        |
| ED2250    | 3/8                  | 25–250 | 2.08–20.83 | 2.82–28.25 | 28–288.03 | 14.5 (368)          | 1.51 (.68)      | PBED2        |
| ED2600    | 3/8                  | 60–600 | 5–50       | 6.79–67.79 | 69–691.27 | 14.5 (368)          | 1.51 (.68)      | PBED2        |

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## TORQUE TESTERS



QC1ETT10

### Electronic Torque Testers

These electronic torque testers can be placed on the wall in the factory or on a bench to allow operators to test torque wrenches or power tools without having to leave their station.

- Includes Track and Peak modes
- Can be used with nonimpacting power tools (joint rate simulators required)
- Dual scale (English/N•m or English/dN•m)
- Reads bidirectional (clockwise and counterclockwise)
- Uses rechargeable Ni-Cad batteries (2 Ni-Cad 9 V)
- Charger included
- Integral transducer and sturdy housing allow mounting in virtually any position
- Integral Transducer: Full bridge strain gauge, 350 ohms, 1,500  $\mu\text{E}$ , 3 mV/V F.S., 7.5 V excitation
- Unique neck design allows operator to see display when testing long torque wrenches
- Accuracy:  $\pm 0.5\%$  of reading  $\pm 1$  count in the least significant digit (10–100% of full range) at 25 °C
- Display Accuracy: four digits, 9,999 counts
- Stability:  $+0.044\%$  per °C

| Stock No.  | Square Drive, inches | Range English   | Range, N•m |
|------------|----------------------|-----------------|------------|
| QC1ETT10   | 1/4                  | 10–100 in-oz    | 7.0–70.6   |
| QC1ETT400  | 1/4                  | 40–400 in-oz    | 28–280     |
| QC1ETT50   | 1/4                  | 5–50 in-lb      | 5.6–56     |
| QC1ETT100  | 1/4                  | 10–100 in-lb    | 11.3–113   |
| QC2ETT250  | 3/8                  | 25–250 in-lb    | 28–280     |
| QC2ETT1000 | 3/8                  | 100–1,000 in-lb | 113–1,130  |
| QC3ETT250  | 1/2                  | 25–250          | 34–339     |
| QC4ETT600  | 3/4                  | 60–600          | 81–813     |

The certification of accuracy provided per ASME® and ISO® Standards is 10–100% of full scale.

## Digital Torque Testers (DTT Series)

- Can be mounted on a wall or in a bench-top vise
- Features an easy-to-use touchscreen to capture peak torque values during a test in real time
- Download stored torque data to a PC
- Testing options: quick check or ASME®-style test
- Refresh rate of 1,000 data points per second
- Record and track torque wrench test results by serial number, plus add traceability by using wrench serial numbers and technician I.D.
- Choose wrench type
- ±0.5% of indicated test value from 10–100% or rated capacity
- Memory Capacity: 500 records (complete check mode only)
- Includes AC/DC power supply, (6) AA alkaline batteries, USB cable and carrying case
- Highly accurate scale (±0.5% ±1 count 10–100% CW and CCW of indicated test value @ 25 °C)
- Ability to customize between units of measure (N•m, kg-cm, ft-lb, inlb, in-oz), operation modes (Track, Peak, First Peak) and wrench type
- Operating temperature (10–32 °C/ 50–90 °F)
- Refresh rate of 1,000 data Points Per Second
- CSA/UL Requirements: Power supply listed under UL (C and US); 100–240V/ 50–60 Hz, 6 A input and 9 V/1.66 A output
- Includes a Certificate of Calibration



QC3DTT250

| Stock No.    | Description                            |
|--------------|--|
| DTS8269      | AC Adaptor                             |
| DTS95095     | Power Cord, UK                         |
| DTS95096     | Power Cord, Australia                  |
| DTS95097     | Power Cord, EU                         |
| 2344-0050-03 | Table Mounting Bracket For DTT Testers |

NOTE: Must order the adaptor and appropriate power cord.

|                       | QC2DTT250  | QC3DTT250  |
|-----------------------|--|--|
| Square Drive, inches  | 3/8  | 1/2  |
| Range English         | 25–250 in-lb   | 25–250   |
| Range, N•m            | 2.9–28.2   | 33.9–338.9   |
| Accuracy              | ±0.5% of Indicated Test Value from 10–100% or Rated Capacity | ±0.5% of Indicated Test Value from 10–100% or Rated Capacity |
| Operating Modes       | TRACK, PEAK, FIRST PEAK                                      | TRACK, PEAK, FIRST PEAK                                      |
| Operating Temperature | 32–122 °F (0–50 °C)  | 32–122 °F (0–50 °C)  |
| Humidity              | 85% Relative Humidity @ 21 °C (70 °F)                        | 85% Relative Humidity @ 21 °C (70 °F)                        |
| Power Supply          | Included 9 V AC/DC Adaptor, (6) AA Batteries Included        | Included 9 V AC/DC Adaptor, (6) AA Batteries Included        |
| Data/Surge/Recall     | Memory Capacity—500 Records (complete check mode only)       | Memory Capacity—500 Records (complete check mode only)       |



TBTT100A



TBT600A

## Horizontal Torque Testers and Transducers

- Includes (3) transducers
- Full digital display
- Covers ft-lb, in-lb, in-oz, N•m, kg-m, kg-cm scales
- Peak hold and first peak hold capability
- NIST® traceable

| Stock No. | Description              | Range         | Resolution   |
|-----------|--------------------------|---------------|--|
| TBT600A   | Horizontal Torque Tester | 5–600         | —  |
| TBTT16A   | Transducer               | 7.5–200 in-lb | .002 ft-lb, .02 in-lb, .002 N•m., .0002 kg-m, .02 kg-cm  |
| TBTT100A  | Transducer               | 5–100         | .01 ft-lb, 1 in-lb, 2 in-oz, .01 N•m, .001 kg-m, 1 kg-cm |
| TBTT600A  | Transducer               | 30–600 ft-lb  | .05 ft-lb, 5 in-lb, 10 in-oz, 1 N•m, .01 kg-m., 1 kg-cm  |



- Do not exceed rated torque
- Do not use torque wrenches to break fasteners loose
- Torque multipliers produce very high reaction force, use caution
- Read safety precautions on pages W1 to W4

# VERSATORQ® 2 TORQUE METERING AND DATA ACQUISITION SYSTEM

## Versatorq® 2 System Torque Acquisition Meters

The Snap-on® Versatorq® 2 portable ATEX®/UL® certified electronic torque analyzer displays torque readings from sensors that attach between sockets and the driver. This highly versatile torque analyzer and data acquisition system can be used with various sockets, extensions, universal joints, and ratcheting drivers. Sensors, purchased separately, are available in eight ranges from 2–20 in-oz to 150–1,500 ft-lb and provide readings with an accuracy of 1% or 2% (dependent on the transducer).

Now "intrinsically safe" for use in hazardous environments (ATEX, UL®, ULC, CE compliant).

- Ideal for applying torque (CW and CCW) in confined spaces with tight access and jobs requiring repetitive torque applications
- Accuracy rating ±1% of reading (10–100% of sensor range). ±2% with VERSA1S10A and VERSA1S20A
- Track mode displays applied torque value and Peak mode displays highest torque value
- Non-volatile flash memory retains data for 10 years or more

- Plug-and-play mini USB for easy data download; no client software needed
- Customer calibration supports ASME® and ISO®
- Includes carrying case (PB57A), mini USB cable (USBATOMINIB), belt clip (276-61) and batteries
- Versatorq® 2 sensors (sold separately) enable accurate torque application using a standard ratchet or breaker bar of any length, with data readout and storage on the cable-connected Versatorq® 2 meter
- Versatorq® 2 sensors available from 2 in-oz up to 1,500 ft-lb with readings in seven popular measurement scales



## Torque Acquisition Meters

### VERSATORQ2 Versatorq® 2 System

- Includes carrying case (PB57A), mini USB cable (USBATOMINIB), belt clip (276-61) and batteries
- Sensors sold separately

| Specifications                       | VERSATORQ2  |
|--------------------------------------|---|
| Description                          | VERSATORQ® 2 System   |
| Display                              | 4 Digit with Alpha and Numerical Function Flags                                       |
| Display Capacity*                    | 4 Digits  |
| Accuracy                             | ±1% of Reading (10–100% of Sensor Range) (±2% with VERSA1S10A and VERSA1S20A Sensors) |
| Push-Button Keypad                   | —   |
| Units of Measure                     | in-oz, in-lb, ft-lb, n•m, cN•m, kg•cm, kg•m   |
| Operating Temperature                | 40–110 °F (23–42 °C)  |
| Storage Temperature                  | -2–122 °F (-20–22 °C)   |
| Humidity                             | Up to 90% Non-Condensing  |
| Dimensions                           | 3" W x 2-1/2" D x 6" L  |
| Weight                               | —   |
| Charge Life (full charge to shutoff) | —   |
| Data Storage/Recall                  | —   |
| Battery                              | —   |

\*Versatorq® display ignores torque input less than .5% of full scale in Track mode and 2.0% of full scale in Peak mode  
 Hazardous Location Designation: Class 1, Zone 2, Ex ic IIA  
 Temperature Class: T6

## Versatorq® 2 Sensors

| Stock No.      | Square Drive, inches | Range        | Sensor Diameter, inches | Sensor Length, inches | Cable Length, inches |
|----------------|----------------------|--------------|-------------------------|-----------------------|----------------------|
| VERSA1S10A*    | 1/4                  | 1–10 in-lb   | .7                      | 2.9                   | 48                   |
| VERSA1S200A    | 1/4                  | 20–200 in-lb | .9                      | 2.1                   | 48                   |
| VERSA1S20A*    | 1/4                  | 2–20 in-oz   | .5                      | 2.9                   | 48                   |
| VERSA1S50A     | 1/4                  | 5–50 in-lb   | .9                      | 2.1                   | 48                   |
| VERSA2S100A    | 3/8                  | 10–100       | 1.2                     | 2.4                   | 48                   |
| VERSA3S250A    | 1/2                  | 25–250 ft-lb | 1.4                     | 2.6                   | 48                   |
| VERSA4S600A    | 3/4                  | 60–600 ft-lb | 2.0                     | 3.9                   | 96                   |
| VERSA5S1500A** | 1                    | 150–1,500    | 2.4                     | 4.4                   | 92                   |

\*Knurled handles allow for fingertip control  
 \*\*Diameter does not include side-mounted connector  
 Heavy-duty coiled cord with four-pin MS-style connector  
 Original Versatorq® Sensors (without "A" suffix in the stock number) are compatible with the VERSATORQ2 meter, but the sensors require calibration

## VERSATORQ1® System Accessories

| Stock No.   | Description                |
|-------------|----------------------------|
| VERSACABLE  | RS232 Serial Printer Cable |
| VERSACABLE2 | PC Interface Cable         |

Please reference the **VERSATORQ® 2 instruction manual for the sensor ranges and resolutions in different units of torque measurement.**

# VERSATEST™ ELECTRONIC TORQUE TESTER & CALIBRATOR

## Versatest™

The Versatest™ indicator is a laboratory-grade monitor designed for precise, in-house torque wrench testing and calibration. High-precision torque transducers provide system readings with an accuracy of +/- 0.25% of indicated value. Twelve transducers are available in ranges from 5 in-oz to 2,000 ft-lb. The 4-in-1 Transducer, with a range of 5 in-lb to 250 ft-lb is also available. All transducers feature a built-in memory chip that identifies the transducer and maintains the calibration. Setup and calibration programming is entered via soft touch keys. The Versatest™ can store and recall up to 3,000 torque readings. Torque readings stored in memory can be downloaded to a computer with optional download cable and software.



| Specifications           | VERSATEST  |
|--------------------------|--|
| Description              | Electronic Torque Tester/Calibrator  |
| Display                  | Large 5-1/2" x 1-1/2" Backlit LCD Graphics Display (240 x 64 dot matrix, 0.67" torque digits character height)     |
| Capacity                 | 5 Significant Digits +/- 32,000 Counts (16 bit A/D)  |
| Display Rate             | Five Updates per Second  |
| Accuracy                 | ±0.25% of reading at 25 °C (with TTC Transducer calibration)   |
| Bar Graph                | 100 Segment Analog of Applied Torque Scaled to Limits Set Value  |
| Modes                    | Track, Peak Hold, First Peak, Power Tool   |
| Humidity                 | 85% Relative Humidity @ 21 °C (70 °F)  |
| Dimensions               | 10" W x 10-1/2" D x 4" H (including carrying handle)   |
| Power Supply             | Auto Switching 100–240 VAC, 50/60 Hz, 50 watts   |
| Data Storage/Recall      | 3,000 Measurements   |
| Histogram                | Lower Set Limit, Upper Set Limit, 10 Divisions   |
| Computer Serial Com Port | RS232 (true), 300–19.2K Baud   |
| Analog Output            | +(CW)/-(CCW) 1.8 V at Transducer Full Range Linearity, ±1% of Reading  |
| Loader Control Relays    | Two, Normally Open, Form A, Rated 12 V DC @ 1/2 A Close Contact at 110% CW or CCW or Torque/Force Transducer Range |

## VERSATEST

### VERSATEST Electronic Torque Tester/Calibrator

- Large LCD display
- Accuracy: +/- 0.25% of indicated value, CW and CCW, from 10–100% of full scale
- Two RS232C serial ports; for use with a printer and PC
- Data storage /recall (with date/time stamp) up to 3,000 readings
- Real-time clock
- Seven Torque Units: ft-lb, in-lb, in-oz, N•m, dN•m, kgm, kg-cm
- Will also load torque screwdrivers
- Smart Plug-and-Play transducers
- Analog output connect to oscilloscope or X-Y plotter
- External Printer can be mounted on top of the Versatest™ unit
- Four Modes: Track, Peak Hold, First Peak, Power Tool
- Transducers available from 5 in-oz to 2,000 ft-lb
- Statistic Process Control (SPC) built in
- Automatic or manual downloading

- All transducers are individually serialized with Certificate of Calibration traceable to NIST®
- Five Languages: English, Spanish, French, Japanese, German
- CE Conformity

### VERSATEST600 Versatest™ Complete Electronic Torque Calibration System

- Provides high-speed monitoring of static and dynamic torque inputs
- Includes the Versatest™ Digital Monitor, VERSA600LDR2 600 ft-lb Mechanical Loader, TTC400 4-in-1 Transducer, TTC5000-1 Bracket and TTC12 3/4" 600 ft-lb Transducer

### VERSA600LDR2 Versatest™ Mechanical Torque Loader

- Unit will load dial, micrometer, beam and electronic torque wrenches
- Maximum capacity of 600 ft-lb
- Use with any TTC series transducer from 15 in-oz to 600 ft-lb



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# ELECTRONIC TORQUE TESTER AND CALIBRATOR



**TTC2000SYS**

**TTC2000 Master Torque Calibration System (Manual)**  
The system tests and calibrates most click-type, digital, dial torque wrenches as well as torque screwdrivers. Twelve transducers are available in ranges from 5 in-oz to 2,000 ft-lb. Also available is the 4-in-1 Transducer, with a range of 4 in-lb to 250 ft-lb. All transducers feature a built-in memory chip that identifies the transducer and maintains the calibration. Set up and calibration programming is entered via soft touch keys. The TTC2000 can store and recall up to 3,000 torque readings. Torque readings stored in memory can be downloaded to a computer with optional download cable and software. Optional kits are available to calibrate cable tensionmeters, tension and compression gauges and non-impact power tools.

**TTC2800/TTC2822 Master Torque Calibration System (Motorized)**

The TTC2800 has the same features as the TTC2000 series except for the following enhanced features:

- Electric motor powered crank for easy calibration
- Is offered in 110 V version (TTC2800/Complete TTC2800SYS or 220 V version (TTC2822/Complete system TTC2822SYS)

**TTC2000SYS Electronic Manual Torque Tester/Calibrator (Manual)** includes: TTC610 Digital Monitor, TTC600 2000 ft-lb Mechanical Loader, SM0773PU Tool Cabinet w/ Casters, TTC400 4-in-1 Transducer, TTC5000-1 Bracket, TTC12 3/4" 600 ft-lb Transducer, TTC14 1" 2000 ft-lb Transducer, TTC5500-1 Extension Arm, 2000-SW WedgeLink Software, 2000-50-3 Download Cable.



**TTC2800SYS**

**TTC2800SYS Motorized Torque Tester/Calibrator Complete Master Torque Calibration System (Motorized)** includes: TTC2800 Monitor, Loader and Tool Cabinet w/ Casters, TTC400 4-in-1 Transducer, TTC5000-1 Bracket, TTC12 3/4" 600 ft-lb Transducer, TTC14 1" 2,000 ft-lb Transducers, TTC5500-1 Extension Arm, 2000-SW WedgeLink Software, 2000-50-3 Download Cable

**Features**

- Accuracy:  $\pm 0.25\%$  of indicated value, CW and CCW, from 10–100% of full scale
- Units of Torque: ft-lb, in-lb, in-oz, N•m, dN•m, cN•m, Kgm, Kg-cm
- Units of Force: lbf, ozf, n, dN, kp, gf
- Four Modes: TRACK, PEAK HOLD, FIRST PEAK, POWER TOOL
- Includes built-in low-profile serial printer
- Transducers available from 5 in-oz to 2,000 ft-lb
- Loader hand crank maximum input torque is 8 ft-lbs, maximum output is 2,000 ft-lb
- All transducers are individually serialized with certificates of calibration traceable to N.I.S.T.
- Programmable automatic or manual options for CLEAR, STORE or SEND
- RS232 serial port for downloading data to PC
- Operating Temperature: 10–32 °C (50–90 °F)
- Automatic lockup in the event of transducer overload
- Data storage/recall (with date/time stamp) up to 3,000 readings
- Dual Voltage: 110 V or 220 V • Real Time Clock
- Smart “Plug and Play” transducers
- NIST® traceable

|  | <b>TTC2000SYS</b>  | <b>TTC2800SYS</b>  |
|--|--|--|
| <b>Description</b>                         | Electronic Manual Torque Tester/Calibrator   | Motorized Torque Tester/Calibrator   |
| <b>Capacity</b>                            | 8 digits $\pm 32,000$ counts (16 bit A/D)  | 8 digits $\pm 32,000$ counts (16 bit A/D)  |
| <b>Accuracy*</b>                           | $\pm 0.25\%$ of reading at 25 °C (with TTC Transducer calibration)   | $\pm 0.25\%$ of reading at 25 °C (with TTC Transducer calibration)   |
| <b>Temperature Drift</b>                   | +0.03 (+0.017)   | +0.03 (+0.017)   |
| <b>Maximum Range Display</b>               | 2-line x 16 character 5 x 8 dot-matrix LCD used for MAX. Transducer range, Units, Calibration, Date/Time, Statistics, Torque/Force or Torque Limits Set, Data Store/Recall, Printer Set Up | 2-line x 16 character 5 x 8 dot-matrix LCD used for MAX. Transducer range, Units, Calibration, Date/Time, Statistics, Torque/Force or Torque Limits Set, Data Store/Recall, Printer Set Up |
| <b>Modes</b>                               | Track, Peak Hold, First Peak, Power Tool   | Track, Peak Hold, First Peak, Power Tool   |
| <b>Operating Temperature</b>               | 10–32 (50–90)  | 10–32 (50–90)  |
| <b>Storage Temperature</b>                 | -20–50 (-2–122)  | -20–50 (-2–122)  |
| <b>Humidity</b>                            | Up to 90% Non-Condensing   | Up to 90% Non-Condensing   |
| <b>Power Supply</b>                        | UL Approved, 120 VAC/220 VAC, 50/60 Hz   | 120 VAC $\pm 10\%$ , 50/60 Hz @3.14 A (including motor current). (Includes stepdown transformer for 240 VAC operation.)  |
| <b>Data Storage/Recall</b>                 | 3,000 Measurements   | 3,000 Measurements   |
| <b>Statistical Analysis</b>                | Max, Min, Range, Mean, SigmaN, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo   | Max, Min, Range, Mean, SigmaN, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo   |
| <b>Histogram</b>                           | Lower Set Limit, Upper Set Limit, 10 Divisions   | Lower Set Limit, Upper Set Limit, 10 Divisions   |
| <b>Printer/Computer Serial Output Port</b> | RS232 (True), 300–19.2K Baud   | RS232 (True), 300–19.2K Baud   |
| <b>Computer Serial Com Port</b>            | RS232 (True), 300–19.2K Baud (Optional)  | RS232 (True), 300–19.2K Baud (Optional)  |
| <b>Analog Output</b>                       | +(CW)/-(CW) 1.8 V at Transducer Full Range Linearity, $\pm 1\%$ of reading   | +(CW)/-(CW) 1.8 V at Transducer Full Range Linearity, $\pm 1\%$ of reading   |
| <b>Loader Control Relays</b>               | Two, Normally Open, Form A, Rated 12 DVC @ 1/2 A close contact at 110% CW or CCW or torque/force transducer range  | Two, Normally Open, Form A, Rated 12 DVC @ 1/2 A close contact at 110% CW or CCW or torque/force transducer range  |
| <b>Loader Hand Crank</b>                   | Input torque 8 ft-lb Maximum, Output Torque 2,000 ft-lb Maximum  | Input torque 8 ft-lb Maximum, Output Torque 2,000 ft-lb Maximum  |
| <b>Motorized Loader Modes</b>              | —  | Manual; Auto Dial; Auto Click  |
| <b>Motorized Loader Power Supply</b>       | —  | 120 V AC $\pm 10\%$ Hz @ 3.14 A (including motor current); (optional step-down transformer for 240 V AC operation)   |

Total Uncertainty: Add 7.5–100% of Range and 8–100% of Range  
Training programs are available by location (P/N STRN01 to STRN07)



# ELECTRONIC TORQUE TESTER AND CALIBRATOR

## TTC2000/TTC2800 System Components

### TTC600 Loader

#### TTC610 Digital Indicator

- For electronic torque tester and calibrator

#### TTC800 Motorized Loader

#### TTC810 Digital Indicator

## Electronic Torque Tester and Calibrator

### TTC2000 Electronic Torque Tester/Calibrator

- Automatic sensor recognition with TTC series “Smart” transducers
- Range: 5 in-oz–2,000 ft-lb (bidirectional)
- Total uncertainty (10–100% of range):  $\pm 0.25\%$  of indicated torque value
- Alpha-numeric eight-digit display
- Memory to 3,000 values
- Includes low-profile serial printer
- Date and time stamp for stored values
- Statistical analysis performed on stored data
- Programmable manual or automatic options for Clear, Store and Print functions
- Recall and review of stored torque values
- Modes: Track, Peak, First Peak and Power Tool
- Optional angle encoder
- RS232C port is standard
- Analog output is standard
- Full digital circuitry
- Eight torque measurement units: in-oz, in-lb, ft-lb, cN•m, dN•m, N•m, kg-cm and kg-m
- Automatic lock-up for transducer protection
- NIST® traceable

### TTC2000SYS Electronic Manual Torque

#### Tester/Calibrator

- TTC2000SYS includes: TTC2000 Monitor, Mechanical Loader and Cabinet, TTC400 4-in-1 Transducer Kit (4 in-lb–250 ft-lb), TTC12 Transducer Kit (60–600 ft-lb), TTC14 Transducer Kit (200–2,000 ft-lb), TTC5500-1 Extension Arm, TTC5000-1 4-in-1 Transducer Bracket, 2000-SW WedgeLink Software and 2000-50-3 Download Cable
- NIST® traceable

### TTC2800SYS Motorized Torque Tester/Calibrator

- Front Panel Function Keys: SELECT Torque/Force; MODE, UNIT; ZERO TARE; CALIBRATION; DATE/TIME; SET LOW; STORE DATA; RECALL DATA; STATISTICS; SEND/AUTO SEND; AUTO CLEAR; MANUAL CLEAR; ENTER; VALUE increment; VALUE decrement; DIGIT left; DIGIT right
- Model TTC2800SYS includes: TTC2800 TTC Monitor, Motorized Loader, and Cabinet, TTC400 4-in-1 Transducer Kit (4 in-lb–250 ft-lb), TTC5000-1 4-in-1 Transducer Bracket, TTC12 Transducer Kit (60–600 ft-lb), TTC14 Transducer Kit (200–2,000 ft-lb), TTC5500-1 Extension Arm, 2000-SW WedgeLink Software and 2000-50-3 Download Cable
- NIST® traceable

### TTC2800-220V Motorized Torque Tester/Calibrator (220 V AC)

- Front Panel Function Keys: SELECT Torque/Force; MODE, UNIT; ZERO TARE; CALIBRATION; DATE/TIME; SET HIGH; SET LOW; STORE DATA; RECALL DATA; STATISTICS; SEND/AUTO SEND; AUTO CLEAR; MANUAL CLEAR; ENTER; VALUE increment; VALUE decrement; DIGIT left; DIGIT right
- NIST® traceable



TTC2800SYS



TTC8



TTC400

## Transducers

All TTC series transducers include the correct adaptor for the indicated torque range.

| Stock No.  | Description                                 | Range             | Bench Top Mounting Bracket |
|------------|---|-------------------|----------------------------|
| TTC4***    | 1/4" Drive Transducer                       | 5–50 in-oz        | TTC3421                    |
| TTC5       | 1/4" Drive Transducer                       | 15–200 in-oz      | TTC3421                    |
| TTC6       | 1/4" Drive Transducer                       | 4–50 in-lb        | TTC3421                    |
| TTC65      | 1/4" Drive Transducer                       | 15–150 in-lb      | TTC3421                    |
| TTC7       | 3/8" Drive Transducer                       | 30–400 in-lb      | TTC3421                    |
| TTC8       | 3/8" Drive Transducer                       | 80–1,000 in-lb    | TTC3421                    |
| TTC10      | 1/2" Drive Transducer                       | 10–125 ft-lb      | TTC3422                    |
| TTC11      | 1/2" Drive Transducer                       | 20–250 ft-lb      | TTC3422                    |
| TTC12      | 3/4" Drive Transducer                       | 60–600 ft-lb      | TTC3422                    |
| TTC13      | 1" Drive Transducer                         | 100–1,000 ft-lb   | TTC15002                   |
| TTC14      | 1" Drive Transducer                         | 200–2,000 ft-lb   | TTC15002                   |
| TTC400**   | 1/4", 3/8" and 1/2" Drive 4-in-1 Transducer | 4 in-lb–250 ft-lb | N/A                        |
| TTC5000-1* | 4-in-1 Adaptor Plate                        | —                 | —                          |
| TTC34325   | 4-in-1 Table Mounting Bracket               | —                 | —                          |

\*TTC400 requires the TTC5000-1 Adaptor Plate when used with the TTC600 Manual Loader, TTC800 Motorized Loader and VERSA600LDR2

\*\*Required for TTC400 4-in-1 Torque Transducer to be used on TTC600/TTC800 loaders

Total Uncertainty: Add 7.5–100% of Range and 8–100% of Range (to some transducers).

\*\*\*Accuracy is +/-0.5% of indicated test value from 10% to 100% of indicated torque value



- Do not exceed rated torque
- Periodic recalibration checks are necessary to maintain and assure torque tester accuracy
- Read safety precautions on pages W1 to W4

# ELECTRONIC TORQUE TESTER AND CALIBRATOR



TTC2600



TTC2610



TTC2620

## Force Testing Equipment

- Reaction arms, cables, mounting plates and fixtures are available for testing tensiometers, plus compression and tension gauges. The TTC600 and TTC800 loaders and TTC Series transducers can be configured to deliver compression and tension loads
- The TTC610/TTC810 indicator also provides measurement, display, storage and statistical analysis for force inputs

| Stock No. | Description                   |
|-----------|-------------------------------|
| TTC2600   | Tensiometer Testing Kit       |
| TTC2610   | Tension Gauge Testing Kit     |
| TTC2620   | Compression Gauge Testing Kit |
| TTC26302  | Force Arm Kit                 |

Force testing feature can only be used with single transducers and CANNOT be used with the TTC400 4-in-1 multi transducer.

## TTCALKIT Calibration Kit

- Includes TTC3200 Weight Set (#1), TTC500 2-1/2" Calibration Wheel, TTC1510 5" Calibration Wheel, TTC1520 10" Butterfly Calibration Wheel, 2000-226-3 Adaptor (1/2" x 3/8"), TTC1540 40" Calibration Arm, 390-2-2 4 oz Calibration Weight Tray, TTC301 8 oz Calibration Weight Tray, TTC3040 7.5 lb Calibration Weight Tray, TTC3020 15 lb Calibration Weight Tray, TTC3030 50 lb Calibration Weight Tray and TTC25002 Calibration Stand Kit
- Kit can be used on all TTC Systems



TTC26302

## Accessories

### TTC900121 Smart Cable Replacement

## Calibration Wheels/Arms

Use to calibrate any TTC Series transducer. Arms are certified to manufacturer's standards.

| Stock No. | Description   |
|-----------|---|
| TTC500    | 2-1/2" Calibration Wheel (max 50 in-oz)                           |
| TTC1510   | 5" Calibration Wheel (max 150 in-lb)                              |
| TTC1520   | 10" Butterfly Wheel (max 250 ft-lb)                               |
| TTC1530   | 1/2" and 3/8" Drive 20" Calibration Arm                           |
| TTC1540   | 1-1/4" Drive 40" Calibration Arm                                  |
| TTC75002  | Torque Screwdriver Testing Kit (for 2800 and 2000 Series Systems) |

## Weight Sets

Used to calibrate any TTC Series transducer. All weights are NIST® (NBS) traceable.

| Stock No. | Description                            |
|-----------|--|
| TTC3200   | No. 1 Weight Set (for all transducers) |
| TTC3210   | No. 2 Weight Set (200 in-oz–600 ft-lb) |
| TTC3220   | No. 3 Weight Set (600–2,000 ft-lb)     |

## Weight Hangers/Trays

Used to calibrate any TTC series transducer. Weight trays are certified as to weight.

| Stock No. | Description            |
|-----------|------------------------|
| 390-2-2   | Weight Hanger (4 oz)   |
| TTC301    | Weight Hanger (1/2 lb) |
| TTC3040   | Weight Tray (7.5 lb)   |
| TTC3020   | Weight Tray (15 lb)    |
| TTC3030   | Weight Tray (50 lb)    |



QC2JRS400

## Joint Rate Simulator Adaptors

- Use with torque tester when testing nonimpacting power tools
- Square drive adaptor is placed on top of square drive of the torque tester and tightened with a set screw
- Adaptor bit is inserted into the power tool and mated to the top of the joint adaptor
- By stacking the Belleville washers in set patterns, the joint rate adaptor can simulate soft, medium or hard joints

| Stock No.  | Square Drive, inches | Capacity, in-lb | Adaptor Bit                     | Load Screw       |
|------------|----------------------|-----------------|---------------------------------|------------------|
| QC1JRS50   | 1/4                  | 50              | 1/4" Hex x 3/16" Hex            | 1/4" x 28 x 1    |
| QC2JRS400  | 3/8                  | 400             | 3/8" Square Internal x 3/8" Hex | 7/16" x 20 x 1.5 |
| QC2JRS1000 | 3/8                  | 1,000           | 3/8" Square Internal x 1/2" Hex | 5/8" x 18 x 1.5  |

## Accessories

| Stock No.    | Description   |
|--------------|---|
| TTC3421      | Transducer Mount (5–50 in-oz to 80–1,000 in-lb)                   |
| TTC3422      | Transducer Mount (10–125 ft-lb to 60–600 ft-lb)                   |
| 2000-150-03  | Transducer Mount (60–600 ft-lb to 200–2,000 ft-lb)                |
| TTC75006     | Torque Screwdriver Testing Kit (for VERSATEST600 Loader System)   |
| 260-27       | 1/4" Hex x 1/4" Square Socket Adaptor                             |
| 342-40       | Female 1/4" Square x 1/4" Square Socket Adaptor                   |
| 342-41-1     | Female 1/4" Square x 1/4" Square Socket Adaptor                   |
| 342-41-1S    | Female 1/4" Square x 3/8" Square Socket Adaptor                   |
| 342-41-2     | Female 3/8" Square x 3/8" Square Socket Adaptor                   |
| 65-26-2      | Female 1/2" Square x 3/8" Square Socket Adaptor                   |
| 65-78-1      | Female 1/2" Square x 3/4" Square Socket Adaptor                   |
| 65-78-2      | Female 3/4" Square x 3/4" Square Socket Adaptor                   |
| 75-25-1      | Female 1" Square x 3/4" Square Socket Adaptor                     |
| 75-20        | Female 1" Square x 1" Square Socket Adaptor                       |
| 2000-152-3   | 1/2" Male x 3/8" Female Square Drive Reducer                      |
| 2000-226-3   | 3/4" Male x 1/2" Female Square Drive Reducer                      |
| 2000-226-2   | 1" Male x 3/4" Female Square Drive Reducer                        |
| 2000-0154-18 | 1-1/4" Male x 3/4" Female Square Drive Reducer                    |
| TTC25002     | Complete Calibration Stand Kit (Including Adaptors)               |
| TTC75002     | Torque Screwdriver Testing Kit (for 2800 and 2000 Series Systems) |
| TTC5500-1    | Extension Arm (For 2000 and 2800 Series Loaders)                  |
| QCDC3250     | Electronic Torque Digital Checker—1/2 and 3/8" (25–250 ft-lb)     |
| TCR175       | Torque Comparator (175 ft-lb Max)                                 |
| TCR600       | Torque Comparator (600 ft-lb Max)                                 |
| TTC503       | USB Download Cable for SureTest and TTC systems                   |



TTC25002

## Torque Digital Checker

### QCDC3250 Electronic Torque Digital Checker—1/2 and 3/8" (25–250 ft-lb)

- Easy method to check a 1/2 or 3/8" drive torque wrench
- Highly Accurate: +/- 1% CW and +/- 1% CCW of indicated value
- Large, easy-to-read backlit LCD screen
- Three measurement modes: ft-lb, in-lb, N•m
- Three primary torque checking modes—Track, Peak Hold, First Peak
- Integrated exercise adaptor on mounting plate to “break in” mechanical torque wrenches before testing
- Includes GAF2A 3/8" adaptor with storage pocket for convenience when testing 3/8" drive torque wrenches
- Integrated exercise adaptor on mounting plate (allows user to break-in for accurate results per ASME® B107-300 standard)
- Battery powered by 3 AA alkaline batteries—optional AC adaptor available (DTS8269)
- Adjustable shut-off feature
- CE approved
- Includes Certificate of Calibration

### TCR175 Torque Comparator (175 ft-lb Max)

- Determines if a torque wrench requires calibration to maintain proper application of torque
- 1/2" female square drive input and 175 ft-lb capacity with 5 ft-lb graduations and 230 N•m capacity with 10 N•m increments is a perfect fit for the most popular torque wrenches
- Integrated exercise adaptor makes break-in process in simple, providing the most accurate results (as per B107-300 standard)
- 2% accurate within ±2% of the reading from 20% of full scale to full scale clockwise and counterclockwise
- Able to check a 3/8" drive torque wrench by using an A2A or GAF2A adaptor
- Does not include Certificate of Calibration

### TCR175C Torque Comparator (Certificate of Calibration)

### TCR600 Torque Comparator (600 ft-lb Max)

- Similar to TCR175 except for:
- 3/4" female square drive input and 600 ft-lb capacity with 10 ft-lb graduations and 800 N•m capacity with 20 N•m increments
- Compact design with 1/4" steel mounting plate allows for convenient installation in any direction: horizontally on a bench, vertically on a wall, or on any other sturdy, flat surface
- Use on most 3/4" drive torque wrenches
- Does not include Certificate of Calibration

### TCR600C Torque Comparator (Certificate of Calibration)



QCDC3250



TCR175C



TCR600C



- Do not exceed rated torque
- Periodic recalibration checks are necessary to maintain and assure torque tester accuracy
- Read safety precautions on pages W1 to W4

# PNEUMATIC TORQUE



## Pneumatic Torque Wrenches

### PTM Features:

- Twin motor technology allows the PTM to be both lightweight and fast
- Compact and powerful, allowing excellent access to a variety of threaded fasteners
- The secondary trigger ensures hands are away from pinch points during operation
- Run-down speeds up to 224 RPM (for PTM370)
- A wide variety of reaction fixtures are available, making this an extremely versatile tool
- These are nonimpacting tools with low vibration levels
- Operate at noise levels below 85 dB (under load)
- Gearbox rotates independently from the handle so reaction forces are never transferred back to the operator
- All tools are supplied with a Certificate of Calibration and torque vs. pressure chart
- PTM Series offers a wide range of torque output, from 74–4,500 ft-lb
- Accuracy of ±5%
- Includes case, cranked reaction fixture, tool hanger, secondary handle and male quick connect

| Stock No. | Description                            | Torque Range (ft-lb) | Torque Range (N•m) | Square Drive Size |
|-----------|--|----------------------|--------------------|-------------------|
| PTM370    | Pneumatic Torque Wrench                | 74–370               | 100–500            | 3/4               |
| PTM590    | Pneumatic Torque Wrench                | 118–590              | 160–800            | 3/4               |
| PTM740    | Pneumatic Torque Wrench                | 147–740              | 200–1,000          | 3/4               |
| PTM1000   | Pneumatic Torque Wrench                | 200–1,000            | 270–1,350          | 1                 |
| PTM1475   | Pneumatic Torque Wrench                | 295–1,475            | 400–2,000          | 1                 |
| PTM1990   | Pneumatic Torque Wrench                | 400–1,990            | 540–2700           | 1                 |
| PTM2950   | Pneumatic Torque Wrench                | 590–2,950            | 800–4,000          | 1-1/2             |
| PTM3300   | Pneumatic Torque Wrench                | 660–3,320            | 900–4,500          | 1-1/2             |
| PTM4400   | Pneumatic Torque Wrench                | 885–4,425            | 1200–6,000         | 1-1/2             |
| WTE4G72L9 | 9" Wheel Torque Extension (for PTM740) | —                    | 1,000 (1,350)      | 1                 |



PTQ1WTCUP562



PTQ1WTCUP482



PTQ1WTCUPD30



PTQ1WTCPBWD1



PTQ1WTCPBWD2

## Pneumatic Torque Wrench Wheel Torque Accessories

- Wheel extension and cup combine to create a reaction point when torquing lug nuts on trucks and heavy equipment

| Stock No.     | Description   | Use with Snap-on Sockets   |
|---------------|---------------|--|
| PTQ1WTCUP342  | Standard Cup  | IM322A, IM342A   |
| PTQ1WTCUP362  | Standard Cup  | IM362  |
| PTQ1WTCUP482  | Standard Cup  | IM482, IMM382  |
| PTQ1WTCUP542  | Standard Cup  | IM502, IM522, IM542  |
| PTQ1WTCUP562  | Standard Cup  | IM562, IMM412  |
| PTQ1WTCUPD362 | Deep Well Cup | SIM322, SIM342, SIM362   |
| PTQ1WTCUPD562 | Deep Well Cup | SIM462, SIM482, SIM522, SIM562                                     |
| PTQ1WTCUPD30  | Deep Well Cup | SIMM302  |
| PTQ1WTCUPD35  | Deep Well Cup | SIM382, SIM402, SIM422, SIM442, SIMM302, SIMM322, SIMM332, SIMM352 |
| PTQ1WTCPBWD1  | Deep Well Cup | BW626A, BWD482   |
| PTQ1WTCPBWD2  | Deep Well Cup | BWDM412  |



PTMFRL

## Pneumatic Torque Filter/Regulators

### PTMFRL Filter/Regulator Unit

- Filter and lubricator in one unit
- Large pressure gauge allows the operator to easily select the appropriate pressure
- Adjustable lubricator provides the proper amount of lubrication for PTM Series of tools



THESE TOOLS ARE BASIC, BUT THEIR CONSTRUCTION AND PERFORMANCE ARE ANYTHING BUT. NO MATTER THE LENGTH, THICKNESS, TIPS STYLE OR HANDLE SIZE, EVERY SNAP-ON® SCREWDRIVER IS BLESSED WITH THE ULTIMATE COMBINATION OF COMFORT, POWER AND VERSATILITY.

---

## STILL DRIVEN TO PROVIDE THE INDUSTRY'S BEST DRIVERS.

---

An inner core that maximizes torque. A middle layer that resists impacts and solvents. And an outer layer of textured material that improves grip, comfort and turning power. These are the features that have made our screwdrivers legendary. They're also available in seven tip type profiles, and feature shanks made from special alloy steel for maximum strength and longevity. And our prybars are made from precision-forged, heat-treated steel to also provide ultimate leverage, versatility and durability.

# SCREWDRIVERS

# SOFT GRIP HANDLE COMBINATION SETS



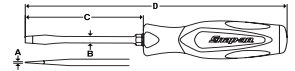
SGDX80BR



SGDX60B0



SGDX60BRFR



## Combination Screwdriver Sets

| Type               | Handle | Stock No    | A    | B    | C       | D        | Set Contains: |           |            |
|--------------------|--------|-------------|------|------|---------|----------|---------------|-----------|------------|
|                    |        |             |      |      |         |          | SGDX80BR*     | SGDX60BR* | SGDX60BRFR |
| Flat Tip Standard  | Hard   | SHD1R †     | .040 | 1/4  | 1-7/8   | 3-3/4    | •             |           |            |
|                    | Soft   | SGD2BR*     | .035 | 7/32 | 2-13/16 | 6-15/16  | •             | •         | •          |
|                    | Soft   | SGD4BR*     | .040 | 1/4  | 3-15/16 | 8-27/32  | •             | •         | •          |
|                    | Soft   | SGD6BR*     | .050 | 5/16 | 5-15/16 | 10-27/32 | •             | •         | •          |
| PHILLIPS® Standard | Hard   | SHDP22IRR*  | #2   | 1/4  | 1-5/8   | 3-1/2    | •             |           |            |
|                    | Soft   | SGDP31IRBR* | #1   | 3/16 | 2-31/32 | 7-1/8    | •             | •         | •          |
|                    | Soft   | SGDP42IRBR* | #2   | 1/4  | 3-31/32 | 8-7/8    | •             | •         | •          |
|                    | Soft   | SGDP63IRBR  | #3   | 5/16 | 5-29/32 | 10-13/16 |               | •         | •          |

† Does not include hex bolster

Sets shown include storage tray; SGDX60BRFR includes foam organizer.

### Colors Available



Red Orange Green  
\* R O G

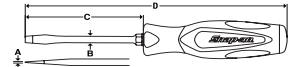
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



SGDXL80BR



SGDX40BR



SGDXXL20BR

## Cabinet-Type/Soft Handle, Chrome

| Type              | Stock No.  | A    | B    | C        | D      | Set Contains: |           |             |
|-------------------|------------|------|------|----------|--------|---------------|-----------|-------------|
|                   |            |      |      |          |        | SGDXL80BR*    | SGDX40BR* | SGDXXL20BR* |
| Flat Tip Cabinet  | SGD146BR*  | .030 | 3/16 | 5-13/16  | 10-1/8 | •             |           |             |
|                   | SGD480BR*  | .032 | 1/4  | 7-15/16  | 12-3/4 | •             |           |             |
|                   | SGD4120BR* | .032 | 1/4  | 11-15/16 | 16-3/4 | •             |           |             |
|                   | SGD4160BR* | .032 | 1/4  | 15-15/16 | 20-3/4 | •             |           |             |
| PHILLIPS® Cabinet | SGDP61BR   | #1   | 3/16 | 6        | 10     | •             |           |             |
|                   | SGDP82BR   | #2   | 1/4  | 8        | 13     | •             |           |             |
|                   | SGDP122BR  | #2   | 1/4  | 12       | 17     | •             |           |             |
|                   | SGDP162BR* | #2   | 1/4  | 16       | 21     | •             |           |             |
| Flat Tip Mini     | SGD304BR*  | .020 | 1/8  | 3        | 5-7/8  |               | •         |             |
|                   | SGD306BR*  | .030 | 3/16 | 3        | 5-7/8  |               | •         |             |
| PHILLIPS® Mini    | SGDP300BR* | #0   | 1/8  | 3        | 6      |               | •         |             |
|                   | SGDP301BR* | #1   | 3/16 | 3        | 6      |               | •         |             |
| Extra-Long        | SGD424BR*  | .046 | 1/4  | 24       | 28-3/4 |               |           | •           |
|                   | SGDP242BR* | #2   | 1/4  | 24       | 28-3/4 |               |           | •           |

Sets include storage tray.

### Colors Available



Red Orange Green  
\* R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

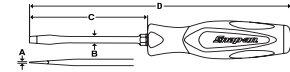
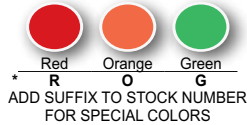
## Standard/Hard Handle, Chrome

|                    | Stock No.  | A    | B    | C       | D        | Set Contains: |          |
|--------------------|------------|------|------|---------|----------|---------------|----------|
|                    |            |      |      |         |          | SHDX80R*      | SHDX60R* |
| Flat Tip Standard  | SHD1R*†    | .040 | 1/4  | 1-7/8   | 3-3/4    | •             |          |
|                    | SHD2R*     | .035 | 7/32 | 2-13/16 | 6-15/16  | •             | •        |
|                    | SHD4R      | .040 | 1/4  | 3-15/16 | 8-27/32  | •             | •        |
|                    | SHD6R      | .050 | 5/16 | 5-15/16 | 10-27/32 | •             | •        |
|                    | SHD8R      | .055 | 3/8  | 7-29/32 | 13-13/32 | •             |          |
| PHILLIPS® Standard | SHDP22IRR  | #2   | 1/4  | 1-5/8   | 3-1/2    | •             |          |
|                    | SHDP31IRR* | #1   | 3/16 | 2-31/32 | 7-1/8    | •             | •        |
|                    | SHDP42IRR* | #2   | 1/4  | 3-31/32 | 8-7/8    | •             | •        |
|                    | SHDP63IRR* | #3   | 5/16 | 5-29/32 | 10-13/16 | •             | •        |

†Does not include hex bolster

Sets include storage tray.

### Colors Available



SHDX80R



SHDX60R

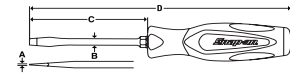
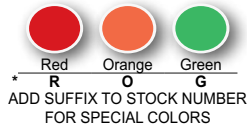
## Standard/Hard Handle

|                                       | Stock No.     | A    | B    | C     | D        | Set Contains: |           |
|---------------------------------------|---------------|------|------|-------|----------|---------------|-----------|
|                                       |               |      |      |       |          | GSHDX80R      | SHDXL80R* |
| Flat Tip Industrial Finish Shank      | GSHD1R††      | .037 | 1/4  | 1-1/2 | 3-3/4    | •             |           |
|                                       | GSHD2R††      | .032 | 7/32 | 2-7/8 | 7        | •             |           |
|                                       | GSHD4R††      | .037 | 1/4  | 4     | 8-7/8    | •             |           |
|                                       | GSHD6R††      | .046 | 5/16 | 6     | 10-27/32 | •             |           |
|                                       | GSHD8R††      | .050 | 3/8  | 8     | 13-13/32 | •             |           |
| PHILLIPS® Tip Industrial Finish Shank | GSHDP22IRR††^ | #2   | 1/4  | 1-1/2 | 3-3/4    | •             |           |
|                                       | GSHDP31R††    | #1   | 3/16 | 3     | 7-1/4    | •             |           |
|                                       | GSHDP42R††    | #2   | 1/4  | 4     | 8-7/8    | •             |           |
| Flat Tip Cabinet                      | SHD146R*      | .030 | 3/16 | 6     | 10-1/8   |               | •         |
|                                       | SHD480R*      | .032 | 1/4  | 8     | 12-3/4   |               | •         |
|                                       | SHD4120R*     | .032 | 1/4  | 12    | 16-3/4   |               | •         |
|                                       | SHD4160R*     | .032 | 1/4  | 16    | 20-3/4   |               | •         |
| PHILLIPS® Tip Cabinet                 | SHDP61R*      | #1   | 3/16 | 6     | 10-1/4   |               | •         |
|                                       | SHDP82R*      | #2   | 1/4  | 8     | 12-7/8   |               | •         |
|                                       | SHDP122R*     | #2   | 1/4  | 12    | 16-3/4   |               | •         |
|                                       | SHDP162R*     | #2   | 1/4  | 16    | 20-3/4   |               | •         |
| Flat Tip Mini                         | SHD304R*      | .018 | 1/8  | 3     | 5-7/8    |               | •         |
|                                       | SHD306R*      | .030 | 3/16 | 3     | 5-7/8    |               | •         |
| PHILLIPS® Tip Mini                    | SHDP300R*     | #0   | 1/8  | 3     | 5-13/16  |               | •         |
|                                       | SHDP301R*     | #1   | 3/16 | 3     | 5-13/16  |               | •         |

^Does not include hex bolster  
†† Industrial Finish

Sets include storage tray.

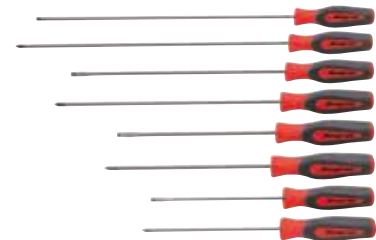
### Colors Available



GSHDX80R



SHDX40R

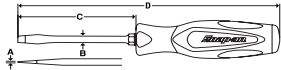


SHDXL80R



• Do not use screwdrivers as prybars, chisels or punches  
• Read safety precautions on pages W1 to W4

## SOFT HANDLE FLAT TIP INSTINCT®



SGD50BR



SGD2BR



SGD480BR

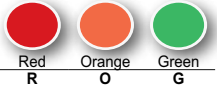


SGD306BR



SGD424BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### — Standard/Soft Handle, Chrome

Set Contains:

SGD50BR

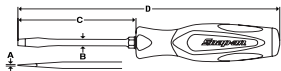
|                     | Stock No. | A    | B    | C        | D        |   |
|---------------------|-----------|------|------|----------|----------|---|
| Flat Tip Standard   | SGD2BR    | .035 | 7/32 | 2-13/16  | 6-15/16  | • |
|                     | SGD4BR    | .040 | 1/4  | 3-15/16  | 8-27/32  | • |
|                     | SGD6BR    | .050 | 5/16 | 5-15/16  | 10-27/32 | • |
|                     | SGD8BR    | .055 | 3/8  | 7-29/32  | 13-13/32 |   |
|                     | SGD10BR   | .055 | 3/8  | 10       | 15-7/16  |   |
| Flat Tip Cabinet    | SGD146BR  | .030 | 3/16 | 5-13/16  | 10-1/8   |   |
|                     | SGD1410BR | .032 | 3/16 | 10       | 14-5/32  |   |
|                     | SGD1416BR | .032 | 3/16 | 16       | 20-5/32  |   |
|                     | SGD480BR  | .032 | 1/4  | 7-15/16  | 12-3/4   |   |
|                     | SGD4100BR | .032 | 1/4  | 9-15/16  | 14-3/4   |   |
|                     | SGD4120BR | .032 | 1/4  | 11-15/16 | 16-3/4   |   |
| Flat Tip Mini       | SGD304BR  | .020 | 1/8  | 3        | 5-7/8    | • |
|                     | SGD306BR  | .030 | 3/16 | 3        | 5-7/8    | • |
| Flat Tip Extra-Long | SGD424BR  | .046 | 1/4  | 24       | 28-3/4   |   |

Set includes storage tray.

### SGD50BR 5 pc Flat Tip Instinct® Soft Grip Screwdriver Set

- Instinct® handle provides maximum turning power and greater comfort
- Six specially designed curves and flutes provide fingertip control and aid in spinning
- Tips are precision cut and vapor blasted for the best possible grip and help prevent chrome plating from peeling
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Replaceable blades are cold forged from special alloy steel and heat treated for optimum strength and durability
- Hexagon bolster prevents blade from being forced into handle and provides wrench-assisted turning

## HARD HANDLE FLAT TIP INSTINCT®



SHD6R



GSHD4R

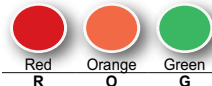


SHD304R



SHD4160R

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### — Standard/Hard Handle, Chrome

|                     | Stock No. | A    | B    | C       | D        |
|---------------------|-----------|------|------|---------|----------|
| Flat Tip Standard   | SHD1R†    | .040 | 1/4  | 1-7/8   | 3-3/4    |
|                     | SHD2R     | .035 | 7/32 | 2-13/16 | 6-15/16  |
|                     | SHD4R     | .040 | 1/4  | 3-15/16 | 8-27/32  |
|                     | SHD6R     | .050 | 5/16 | 5-15/16 | 10-27/32 |
|                     | SHD8R     | .055 | 3/8  | 7-29/32 | 13-13/32 |
|                     | SHD10R    | .055 | 3/8  | 10      | 15-7/16  |
| Flat Tip Industrial | GSHD1R†   | .037 | 1/4  | 1-1/2   | 3-3/4    |
|                     | GSHD2R    | .032 | 7/32 | 2-7/8   | 7        |
|                     | GSHD4R    | .037 | 1/4  | 4       | 8-7/8    |
|                     | GSHD6R    | .046 | 5/16 | 6       | 10-27/32 |
|                     | GSHD8R    | .050 | 3/8  | 8       | 13-13/32 |
| Flat Tip Cabinet    | SHD146R   | .030 | 3/16 | 6       | 10-1/8   |
|                     | SHD480R   | .032 | 1/4  | 8       | 12-3/4   |
|                     | SHD4120R  | .032 | 1/4  | 12      | 16-3/4   |
|                     | SHD4160R  | .032 | 1/4  | 16      | 20-3/4   |
| Flat Tip Mini       | SHD304R   | .018 | 1/8  | 3       | 5-7/8    |
|                     | SHD306R   | .030 | 3/16 | 3       | 5-7/8    |

†Does not include hex bolster



## FLAT TIP/POCKET AND SPARK TEST



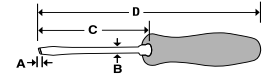
SDD2040

### — Pocket, Chrome

| Stock No. | Type   | Description                             | A    | D     |
|-----------|--------|---|------|-------|
| SDD2040   | Pocket | Flat Tip Pocket Screwdriver             | .025 | 4-3/4 |
| SDD2240   | Pocket | Flat Tip Pocket Screwdriver with Magnet | .025 | 4-3/4 |



SDD214



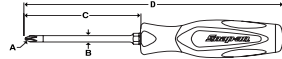
### — Spark Test, Chrome

| Stock No. | Type       | Description                     | A          | D     |
|-----------|------------|---------------------------------|------------|-------|
| SDD214    | Spark Test | Flat Tip Spark Test Screwdriver | .025 x 1/8 | 5-1/8 |

## SOFT HANDLE PHILLIPS® INSTINCT®



SGDP42IRBR



### + Standard/Soft Handle, Chrome

| Stock No.  | A  | B    | C       | D        |
|------------|----|------|---------|----------|
| SGDP31IRBR | #1 | 3/16 | 2-31/32 | 7-1/8    |
| SGDP42IRBR | #2 | 1/4  | 3-31/32 | 8-7/8    |
| SGDP62IRBR | #2 | 1/4  | 6       | 10-7/8   |
| SGDP63IRBR | #3 | 5/16 | 5-29/32 | 10-13/16 |
| SGDP64IRBR | #4 | 3/8  | 6       | 11-1/2   |
| SGDP84BR   | #4 | 3/8  | 8       | 15-5/8   |



SGDP82BR

### + Cabinet-Type/Soft Handle, Chrome

| Stock No. | A  | B    | C     | D      |
|-----------|----|------|-------|--------|
| SGDP101BR | #1 | 3/16 | 10    | 14-1/8 |
| SGDP102BR | #2 | 1/4  | 9-3/8 | 14-1/4 |
| SGDP122BR | #2 | 1/4  | 12    | 17     |
| SGDP162BR | #2 | 1/4  | 16    | 21     |
| SGDP61BR  | #1 | 3/16 | 6     | 10     |
| SGDP82BR  | #2 | 1/4  | 8     | 13     |

### + Mini Tip/Soft Handle, Chrome

| Stock No.  | A  | B    | C       | D        | Set Contains: |
|------------|----|------|---------|----------|---------------|
| SGDP300BR  | #0 | 1/8  | 3       | 6        | •             |
| SGDP301BR  | #1 | 3/16 | 3       | 6        | •             |
| SGDP31IRBR | #1 | 3/16 | 2-31/32 | 7-1/8    | •             |
| SGDP42IRBR | #2 | 1/4  | 3-31/32 | 8-7/8    | •             |
| SGDP63IRBR | #3 | 5/16 | 5-29/32 | 10-13/16 | •             |

SGDP50BR



SGDP50BR

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



SGDP301BR



SGDP300BR



SGDP216BR

### + Mini Tip/Soft Handle, Chrome

| Stock No. | A  | B    | C | D |
|-----------|----|------|---|---|
| SGDP300BR | #0 | 1/8  | 3 | 6 |
| SGDP301BR | #1 | 3/16 | 3 | 6 |

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### + Extra-Long/Soft Handle, Chrome

| Stock No. | A  | B    | C  | D       |
|-----------|----|------|----|---------|
| SGDP116BR | #1 | 3/16 | 16 | 20-5/32 |
| SGDP216BR | #2 | 3/16 | 16 | 20-5/32 |
| SGDP242BR | #2 | 1/4  | 24 | 28-3/4  |

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Do not use screwdrivers as prybars, chisels or punches  
• Read safety precautions on pages W1 to W4

**SOFT HANDLE PHILLIPS® INSTINCT®**



SGDDP50BR

**Diamond Tip**

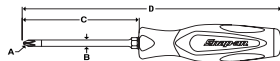
- Diamond particles “bite” into fasteners, which minimizes slipping
- Diamond tips are extremely hard for long lasting performance and minimal wear
- Hex shape blades allow a wrench to be used for higher torque applications
- Tip identifier on the crown helps to quickly identify the needed tool

Set  
Contains:  
SGDDP50BR

| Red         | A  | B    | C     | D        | Blade      |   |
|-------------|----|------|-------|----------|------------|---|
| SGDDP31IRBR | #1 | .197 | 3     | 7-5/32   | SSDDP31RB† | • |
| SGDDP42IRBR | #2 | .236 | 4     | 8-29/32  | SSDDP42RB† | • |
| SGDDP61IRBR | #1 | .197 | 6     | 10-5/32  | SSDDP61RB† | • |
| SGDDP62IRBR | #2 | .236 | 6     | 10-29/32 | SSDDP62RB† | • |
| SGDDP63IRBR | #3 | .315 | 5-3/4 | 10-5/8   | SSDDP63RB† | • |

Set includes storage tray.

**HARD HANDLE PHILLIPS® INSTINCT®**



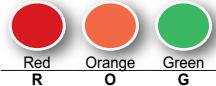
SHDP63IRR

**✦ Standard/Hard Handle, Chrome**

| Stock No.   | A  | B    | C       | D        |
|-------------|----|------|---------|----------|
| SHDP22IRR † | #2 | 1/4  | 1-5/8   | 3-1/2    |
| SHDP31IRR   | #1 | 3/16 | 2-31/32 | 7-1/8    |
| SHDP42IRR   | #2 | 1/4  | 3-31/32 | 8-7/8    |
| SHDP62IRR   | #2 | 1/4  | 6       | 10-13/32 |
| SHDP63IRR   | #3 | 5/16 | 5-29/32 | 10-13/16 |
| SHDP64IRR   | #4 | 3/8  | 6       | 11-1/2   |

†Does not include hex bolster

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**✦ Standard/Hard Handle, Industrial**



GSHDP31R

| Stock No.    | A  | B    | C     | D     |
|--------------|----|------|-------|-------|
| GSHDP22IRR † | #2 | 1/4  | 1-1/2 | 3-3/4 |
| GSHDP31R     | #1 | 3/16 | 3     | 7-1/4 |
| GSHDP42R     | #2 | 1/4  | 4     | 8-7/8 |

†Does not include hex bolster

**✦ Cabinet-Type/Hard Handle, Chrome**



SHDP82R

| Stock No. | A  | B    | C  | D      |
|-----------|----|------|----|--------|
| SHDP61R   | #1 | 3/16 | 6  | 10-1/4 |
| SHDP82R   | #2 | 1/4  | 8  | 12-7/8 |
| SHDP122R  | #2 | 1/4  | 12 | 16-3/4 |
| SHDP162R  | #2 | 1/4  | 16 | 20-3/4 |

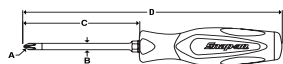
**Colors Available**



ADD SUFFIX TO STOCK NUMBER OR SPECIAL COLORS

## ✦ Mini Tip/Hard Handle, Chrome

| Stock No. | A  | B    | C | D       |
|-----------|----|------|---|---------|
| SHDP300R  | #0 | 1/8  | 3 | 5-13/16 |
| SHDP301R  | #1 | 3/16 | 3 | 5-13/16 |



SHDP300R

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## ✦ Pocket, Chrome

| Stock No. | Description                     | A  | B   | C | D     |
|-----------|---------------------------------|----|-----|---|-------|
| SDDP204B0 | PHILLIPS® #1 Pocket Screwdriver | #1 | 1/8 | 2 | 4-7/8 |



SDDP204B0

## SOFT GRIP (Blue-Point®)

### PHILLIPS®/Soft Grip (Blue-Point®)

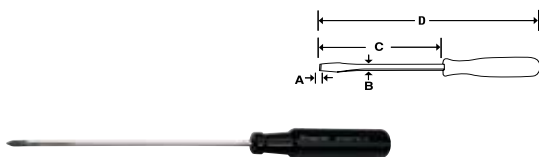
|           | Stock No. | Tip Size | Blade Length, inches | Length, inches | • |
|-----------|-----------|----------|----------------------|----------------|---|
| Flat Tip  | BSGD3     | 1/8      | 3                    | 6-1/2          | • |
|           | BSGD4     | 7/32     | 5                    | 9              | • |
|           | BSGD5     | 1/4      | 6                    | 10-1/4         | • |
|           | BSGD6     | 5/16     | 7                    | 11-1/4         | • |
|           | BSGD7     | 3/8      | 8                    | 12-3/8         | • |
| PHILLIPS® | BSGDP41   | #1       | 4                    | 8              | • |
|           | BSGDP52   | #2       | 5                    | 9-1/4          | • |

Set Contains: BSGDX70



BSGDX70

## ELECTRONIC SERVICE



SSDEP61C

### Electronic Thin Blade/Flat Tip

#### Flat Tip Electronic Thin Blade Screwdriver

- Handles have recessed ends for fingertip pressure

| Stock No. | A           | B    | C  | D       |
|-----------|-------------|------|----|---------|
| SSDE42C   | .018 x 1/8  | 1/8  | 2  | 5-5/16  |
| SSDE43C   | .018 x 1/8  | 1/8  | 3  | 6-5/16  |
| SSDE44C   | .018 x 1/8  | 1/8  | 4  | 7-5/16  |
| SSDE46C   | .018 x 1/8  | 1/8  | 6  | 9-5/16  |
| SSDE48C   | .018 x 1/8  | 1/8  | 8  | 11-5/16 |
| SSDE63C   | .030 x 3/16 | 3/16 | 3  | 6-9/16  |
| SSDE64C   | .028 x 3/16 | 3/16 | 4  | 7-9/16  |
| SSDE66C   | .030 x 3/16 | 3/16 | 6  | 6-9/16  |
| SSDE68C   | .028 x 3/16 | 3/16 | 8  | 11-9/16 |
| SSDE610C  | .030 x 3/16 | 3/16 | 10 | 13-9/16 |
| SSDEP30C  | #0          | 1/8  | 3  | 6-3/8   |
| SSDEP61C  | #1          | 3/16 | 6  | 9-5/8   |

### Electronic Miniature

- Made with electrostatic dissipative (ESD) safe material that protects against the transfer of static charges; important when working around sensitive electronic components that can be damaged by static charges
- ESD mark on each tool
- Blade tip finish is industrial black
- Rotating handle for detail work



SGDE70ESD

### ✦ Electronic Miniature

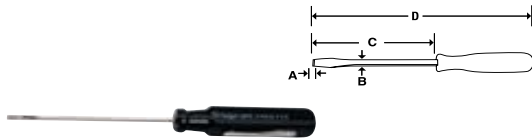
|           | Stock No.   | A     | B    | C | D     | • |
|-----------|-------------|-------|------|---|-------|---|
| Flat Tip  | SGDE215ESD  | 1-1/2 | 1/8  | 2 | 5-1/2 | • |
|           | SGDE220ESD  | 2     | 3/32 | 2 | 5-3/4 | • |
|           | SGDE225ESD  | 2.5   | 3/32 | 2 | 5-3/4 | • |
|           | SGDE230ESD  | 3     | 1/8  | 2 | 5-3/4 | • |
| PHILLIPS® | SGDEP200ESD | #00   | 1/8  | 2 | 5-3/4 | • |
|           | SGDEP20ESD  | #0    | 1/8  | 2 | 5-3/4 | • |
|           | SGDEP21ESD  | #1    | 3/16 | 3 | 6-1/2 | • |

Set includes storage case.



• Do not use screwdrivers as prybars, chisels or punches  
• Read safety precautions on pages W1 to W4

# ELECTRONIC SERVICE



SSDE33C

## Potentiometer Adjuster, Chrome

| Stock No. | A           | B    | C | D      |
|-----------|-------------|------|---|--------|
| SSDE33C   | .015 x 3/32 | 3/32 | 3 | 5-9/16 |



SGDEH70ESD

## Electronic Miniature/Hex

Set Contains:

| Stock No.   | A      | B    | C | D     |
|-------------|--------|------|---|-------|
| SGDEH304ESD | 1/16   | 3/32 | 2 | 5-1/2 |
| SGDEH306ESD | 3/32   | 1/8  | 3 | 6-1/2 |
| SGDEH307ESD | 7/64   | 3/16 | 3 | 6-1/2 |
| SGDEH315ESD | 1.5 mm | 3/32 | 2 | 5-1/2 |
| SGDEH320ESD | 2 mm   | 3/32 | 2 | 5-1/2 |
| SGDEH325ESD | 2.5 mm | 3/32 | 3 | 6-1/2 |
| SGDEH330ESD | 3 mm   | 3/16 | 3 | 6-1/2 |

Set includes storage case.



SGDET70ESD

## Electronic Miniature/TORX®

Set Contains:

| Stock No.   | A   | B    | C | D     |
|-------------|-----|------|---|-------|
| SGDET26ESD  | T6  | 1/8  | 2 | 5-1/2 |
| SGDET27ESD  | T7  | 1/8  | 2 | 5-1/2 |
| SGDET28ESD  | T8  | 1/8  | 2 | 5-1/2 |
| SGDET29ESD  | T9  | 1/8  | 2 | 5-1/2 |
| SGDET210ESD | T10 | 1/8  | 2 | 5-1/2 |
| SGDET215ESD | T15 | 3/16 | 3 | 6-1/2 |
| SGDET220ESD | T20 | 3/16 | 3 | 6-1/2 |

Set includes storage case.



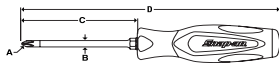
SGDEL40ESD

## Electronic Miniature/Long

Set Contains:

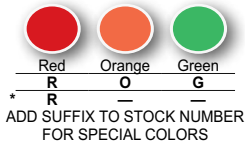
| Stock No.   | A    | B    | C  | D      |
|-------------|------|------|----|--------|
| SGDEL8ESD   | 3 mm | 1/8  | 8  | 11-3/8 |
| SGDELP8ESD  | #0   | 1/8  | 8  | 11-3/8 |
| SGDEL10ESD  | 4 mm | 3/16 | 10 | 13-3/8 |
| SGDELP10ESD | #1   | 3/16 | 10 | 13-3/8 |

# TORX® TIP SOFT HANDLE **INSTINCT®**



SGDTX90BR

### Colors Available



## ★ Standard/Soft Handle, Chrome

- Designed for internal-type TORX® fasteners used in automotive and appliance
- Tips are precision cut and vapor blasted for best possible grip
- Chrome-plated blades for superior corrosion resistance and easy clean-up
- Hex bolsters for wrench-assisted turning
- Instinct® soft grip handles offer unique combination of power, comfort and versatility

| Stock No.  | A   | B    | C | D      |
|------------|-----|------|---|--------|
| SGDTX38BR  | T8  | 3/16 | 3 | 7-1/4  |
| SGDTX310BR | T10 | 3/16 | 3 | 7-1/4  |
| SGDTX315BR | T15 | 3/16 | 3 | 7-1/4  |
| SGDTX320BR | T20 | 3/16 | 3 | 7-1/4  |
| SGDTX425BR | T25 | 1/4  | 4 | 8-7/8  |
| SGDTX427BR | T27 | 1/4  | 4 | 8-7/8  |
| SGDTX430BR | T30 | 1/4  | 4 | 8-7/8  |
| SGDTX640BR | T40 | 5/16 | 6 | 10-7/8 |
| SGDTX645BR | T45 | 5/16 | 6 | 10-7/8 |

Set Contains:

SGDTX90BR  
SGDTX50BR\*

Sets include storage tray.

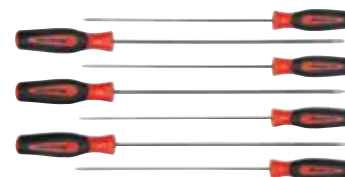
★ **Long/Soft Handle, Chrome**

- TORX® tip offers optimal fastener engagement with minimal cam-out
- Thin, strong alloy blade provides excellent clearance and turning force
- Longer exposed lengths provide access to difficult-to-reach fasteners such as head/tail light assemblies

SGDTXL70BR  
Set Contains:

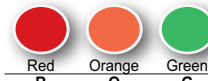
| Stock No.   | A   | B    | C  | D      | Red |
|-------------|-----|------|----|--------|-----|
| SGDTX1008BR | T8  | 3/16 | 10 | 14-1/8 | •   |
| SGDTX1010BR | T10 | 3/16 | 10 | 14-1/8 | •   |
| SGDTX1015BR | T15 | 3/16 | 10 | 14-1/8 | •   |
| SGDTX1020BR | T20 | 3/16 | 10 | 14-1/8 | •   |
| SGDTX1225BR | T25 | 1/4  | 12 | 16-7/8 | •   |
| SGDTX1227BR | T27 | 1/4  | 12 | 16-7/8 | •   |
| SGDTX1230BR | T30 | 1/4  | 12 | 16-7/8 | •   |

Set includes storage tray.



SGDTXL70BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Pozidriv®**

**SGDZ42BR Pozidriv® Instinct® Soft Grip Screwdriver**

- Tips have wedges for a tight fit on Pozidriv® fasteners
- PHILLIPS® tip drivers should not be used on Pozidriv® fasteners as they will ride out of the recess, round tool and screw recess corners



SGDZ42BR

★ **Mini-Tip/Soft Handle, Chrome**

- Designed for internal-type TORX® fasteners used in the automotive and appliance industries

SGTX40BR  
Set Contains:

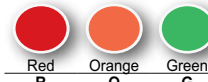
| Stock No. | A   | B    | C | D     | Red |
|-----------|-----|------|---|-------|-----|
| SGDT308BR | T8  | 3/16 | 3 | 5-7/8 | •   |
| SGDT310BR | T10 | 3/16 | 3 | 5-7/8 | •   |
| SGDT315BR | T15 | 3/16 | 3 | 5-7/8 | •   |
| SGDT320BR | T20 | 3/16 | 3 | 5-7/8 | •   |

Set includes storage tray.



SGTX40BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

★ **Tamper-Resistant/Soft Handle, Chrome**

- A hole in the end of each bit tip fits over the center peg in TORX® tamper-resistant fasteners

SGDTRX50BR  
Set Contains:

| Stock No.   | A   | B    | C | D     | Red |
|-------------|-----|------|---|-------|-----|
| SGDTRX315BR | T15 | 3/16 | 3 | 7-1/4 | •   |
| SGDTRX320BR | T20 | 3/16 | 3 | 7-1/4 | •   |
| SGDTRX425BR | T25 | 1/4  | 4 | 8-7/8 | •   |
| SGDTRX427BR | T27 | 1/4  | 4 | 8-7/8 | •   |
| SGDTRX430BR | T30 | 1/4  | 4 | 8-7/8 | •   |

Set includes storage tray.

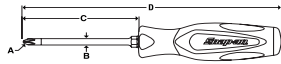


SGDTRX50BR



• Do not use screwdrivers as prybars, chisels or punches  
• Read safety precautions on pages W1 to W4

**TORX® TIP SOFT HANDLE  INSTINCT®**



**SGDTRXL70BR**

**★ Tamper-Resistant/Soft Handle/Long, Chrome**

- A hole in the end of each bit tip fits over the center peg in TORX® tamper-resistant fasteners
- Common uses include door and interior trim panels, headlight assemblies and switch modules

**Set Contains:**  
SGDTRXL70BR

| Stock No.   | A   | B    | C | D      | Red |
|-------------|-----|------|---|--------|-----|
| SGDTRX608BR | T8  | 3/16 | 6 | 10     | •   |
| SGDTRX610BR | T10 | 3/16 | 6 | 10     | •   |
| SGDTRX615BR | T15 | 3/16 | 6 | 10     | •   |
| SGDTRX620BR | T20 | 3/16 | 6 | 10     | •   |
| SGDTRX825BR | T25 | 1/4  | 8 | 12-3/4 | •   |
| SGDTRX827BR | T27 | 1/4  | 8 | 12-3/4 | •   |
| SGDTRX830BR | T30 | 1/4  | 8 | 12-3/4 | •   |

Set includes storage tray.

**★ Tamper-Resistant/Soft Handle/Long Mini-Tip, Chrome**

- A hole in the end of each bit tip fits over the center peg in TORX® tamper-resistant fasteners

**Set Contains:**  
SGTRXL40BR

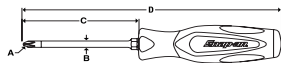


**SGTRXL40BR**

| Stock No. | A   | B    | C | D     | Red |
|-----------|-----|------|---|-------|-----|
| SGDTR608B | T8  | 3/16 | 6 | 8-7/8 | •   |
| SGDTR610B | T10 | 3/16 | 6 | 8-7/8 | •   |
| SGDTR615B | T15 | 3/16 | 6 | 8-7/8 | •   |
| SGDTR620B | T20 | 3/16 | 6 | 8-7/8 | •   |

Set includes storage tray.

**TORX® TIP HARD HANDLE  INSTINCT®**



**SHDTX90R**

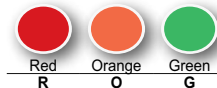
**★ Standard/Hard Handle, Chrome**

**Set Contains:**  
SHDTX90R

| Stock No. | A   | B    | C | D      | Red |
|-----------|-----|------|---|--------|-----|
| SHDTX38R  | T8  | 3/16 | 3 | 7-1/4  | •   |
| SHDTX310R | T10 | 3/16 | 3 | 7-1/4  | •   |
| SHDTX315R | T15 | 3/16 | 3 | 7-1/4  | •   |
| SHDTX320R | T20 | 3/16 | 3 | 7-1/4  | •   |
| SHDTX425R | T25 | 1/4  | 4 | 8-7/8  | •   |
| SHDTX427R | T27 | 1/4  | 4 | 8-7/8  | •   |
| SHDTX430R | T30 | 1/4  | 4 | 8-7/8  | •   |
| SHDTX640R | T40 | 5/16 | 6 | 10-7/8 | •   |
| SHDTX645R | T45 | 5/16 | 6 | 10-7/8 | •   |

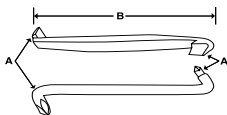
Set includes storage tray.

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**SPECIAL APPLICATION**



**ST50A**

**— + 90° Offset, Chrome**

**Set Contains:**  
ST50A

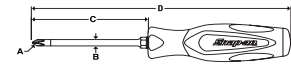
| Stock No. | Product Type | A           | B       | Red |
|-----------|--------------|-------------|---------|-----|
| 120SSDP   | PHILLIPS®    | #1 and #2   | 4-3/4   | •   |
| 340SSDP   | PHILLIPS®    | #3 and #4   | 6       | •   |
| 10SSD     | Flat Tip     | .040 x 1/4  | 4       | •   |
| 20SSD     | Flat Tip     | .050 x 5/16 | 4-11/16 | •   |
| 30SSD     | Flat Tip     | .060 x 3/8  | 5-1/2   | •   |

**Ball Hex Tip/Soft Handle, Metric**

Set Contains:

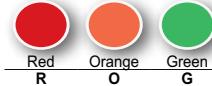
| Stock No.  | A   | B    | C | D        | Red |
|------------|-----|------|---|----------|-----|
| SGABM20BR  | 2   | 1/8  | 3 | 5-13/16  | •   |
| SGABM25BR  | 2.5 | 1/8" | 3 | 5-13/16  | •   |
| SGABM30BR  | 3   | 3/16 | 3 | 7-5/32   | •   |
| SGABM40BR  | 4   | 3/16 | 3 | 7-5/32   | •   |
| SGABM50BR  | 5   | 3/16 | 3 | 7-5/32   | •   |
| SGABM60BR  | 6   | 5/16 | 4 | 8-29/32  | •   |
| SGABM70BR  | 7   | 5/16 | 6 | 10-29/32 | •   |
| SGABM80BR  | 8   | 5/16 | 6 | 10-29/32 | •   |
| SGABM100BR | 10  | 3/8  | 8 | 13-1/2   | •   |

SGABM900BR



SGABM900BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Ball Hex Tip/Soft Handle, SAE**

Set Contains:

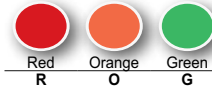
| Stock No. | A    | B    | C | D        | Red |
|-----------|------|------|---|----------|-----|
| SGAB6BR   | 3/32 | 1/8  | 3 | 5-13/16  | •   |
| SGAB7BR   | 7/64 | 1/8  | 3 | 5-13/16  | •   |
| SGAB8BR   | 1/8  | 3/16 | 3 | 7-5/32   | •   |
| SGAB9BR   | 9/64 | 3/16 | 3 | 7-5/32   | •   |
| SGAB10BR  | 5/32 | 3/16 | 3 | 7-5/32   | •   |
| SGAB12BR  | 3/16 | 3/16 | 3 | 7-5/32   | •   |
| SGAB14BR  | 7/32 | 5/16 | 4 | 8-29/32  | •   |
| SGAB16BR  | 1/4  | 5/16 | 4 | 8-29/32  | •   |
| SGAB20BR  | 5/16 | 5/16 | 6 | 10-29/32 | •   |
| SGAB24BR  | 3/8  | 3/8  | 8 | 13-1/2   | •   |

SGAB1000BR



SGAB1000BR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Dzus® Fasteners, Chrome**

- For Dzus®-type fasteners used in aircraft and auto racing applications

| Stock No. | Tip Thickness, inches | Tip Width, inches | Blade Length Exposed, inches | Length, inches |
|-----------|-----------------------|-------------------|------------------------------|----------------|
| S6180     | 3/64                  | 3/64              | 2                            | 6-13/32        |
| S6189     | 1/32                  | 19/64             | 2                            | 5-47/64        |



S6180



S6189

**Reversible Blade Screwdrivers and Sets**

Set Contains:

SDDD101

SDDD41

| Stock No.   | Description                     | SDDD101 | SDDD41 |
|-------------|---------------------------------|---------|--------|
| SDMDP1S4    | PH#1/S4 bit                     | •       |        |
| SDMDP2S4    | PH#2/S4 bit                     | •       |        |
| SDMDT15T20‡ | Reversible TORX® Bit, T15 / T20 | •       |        |
| SDMDT25T30‡ | Reversible TORX® Bit, T25 / T30 | •       |        |
| SDDD-1      | Tube                            | •       | •      |
| SDMD4P1S4   | PH#1/S4 bit                     |         | •      |
| SDMD4P2S4   | PH#2/S4 bit                     |         | •      |

**SDDD101 Reversible Blade Screwdriver Set**

- Includes (4) reversible bits for (8) different tip sizes: 1/4" and 3/16" flat tips, PHILLIPS® #1 and #2 tips, TORX® T15, T20, T25 and T30 tips
- Individual 1/4" and 5/16" nut drivers
- Durable, classic hard handle is textured for a sure grip

**SDDD41 Reversible Blade Screwdriver Set**

- Includes (2) reversible bits for four different tip sizes: 9/32" and 13/64" flat tip, PHILLIPS® #1 and #2 tips
- Durable, classic hard handle is textured for a sure grip



SDDD101



SDDD41



- Do not use screwdrivers as prybars, chisels or punches
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## SPECIAL APPLICATION



CM6551A

### Miniature, Chrome

#### CM6551A 5 pc Miniature Screwdriver Set

- Includes (4) blades in the following flat tip sizes: .055", .070", .080" and .100"
- Includes awl and plastic pouch



S6560

### TORX® Insert Bits

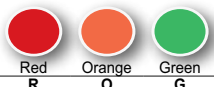
#### S6560 T60 TORX® Bit

- Small diameter shaft can clear ABS tone ring and still engage bolt heads
- Ball-and-spring retention keeps sockets secure
- 4.6" long TORX® T60 with 9/16" hex on other end for use with a socket or wrench
- Can be used with other sockets for optimum positioning
- Rated for use with an impact tool



SDDDM1AR

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Pocket Screwdrivers with Reversible Bit

| Stock No. | Replacement Bit |
|-----------|-----------------|
| SDDDM1AR  | SDM3D24         |

### SDDDM1AR Pocket Screwdriver with Reversible Bit

- Handy pocket clip adds convenience, keep a pocket screwdriver at arms length at all times
- Slim-profile classic handle for easy storage in pocket or glove box
- Built in magnet helps retain reversible bit so that it is always available when you need it
- Strong magnet securely holds the bit in place



SGDQ16KT

### Pop-Up Screwdriver and Diamond Bit Set

#### SGDQ16KT+ Screwdriver Kit

- Easy-to-use spring-loaded shank can adjust to different lengths for clearance, as well as compact storage
- Shank can be fully released to allow for use with cordless drills
- Highly engineered collet incorporates both a magnetic and mechanical locking system to securely hold bits
- Rotating collet sleeve for spinning when quickly setting/removing fasteners
- Diamond particles bite into fasteners, which minimizes cam-out and stripping
- Kit includes: SGDQ6 Pop-Up Screwdriver, SDMD221 and SDMD223 PHILLIPS® Diamond Bits (#1, #2, #3), SDMD213 Flat Tip Diamond Bit, SDMDT10, SDMDT30 TORX® Diamond Bits (T10-T30), and SDMD321, and SDMD323 Power PHILLIPS® Diamond Bits (#1, #2, #3) in a PAKSCO62 Nylon Pouch

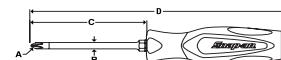
#### SGDQ6+ Pop Up Shank Screwdriver



SDDR40

### Square Tip

- Square Tip Screwdrivers offer excellent fastener engagement
- Tips are precision cut and vapor blasted for optimal grip
- Intended for use on #3–12 Square Tip Fasteners



Set Contains:  
SDDR40

| Stock No. | Color  | Tip | C | D       |   |
|-----------|--------|-----|---|---------|---|
| SDDROB30Y | Yellow | #0  | 3 | 6-21/32 | • |
| SDDROB31G | Green  | #1  | 3 | 6-21/32 | • |
| SDDROB42R | Red    | #2  | 4 | 8-13/32 | • |
| SDDROB43  | Black  | #3  | 4 | 8-13/32 | • |



SSF1



SSFP1



SSFP2

### Low-Profile Screwdrivers

- Screwdrivers provide ability to turn screws in extremely limited-access areas where other products cannot reach
- Special alloy steel screwdriver bits are the shortest bits possible (10 mm) but still allow for full engagement of the screw
- Heat-treated contoured handle for comfort and ease of use
- Flat, low-profile design fits in extremely tight areas
- Used in the aviation, aerospace and automotive industries
- Can be used in assembly, on motorcycles and for small engine repairs
- Tether hole in the handle helps prevent FOD (Foreign Object Damage)

| Stock No. | Description      | Length, inches |
|-----------|------------------|----------------|
| SSFP1     | PHILLIPS® #1 Tip | 4-9/32         |
| SSFP2     | PHILLIPS® #2 Tip | 4-9/32         |
| SSF1      | Flat Tip         | 4-9/32         |

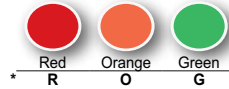


**Marine Plug Screwdrivers**

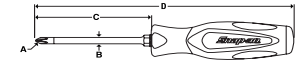
- Intended for use on marine plugs and other large-slotted fasteners requiring high torque
- SGD155 series features a large hex bolster for wrench-assisted turning

| Stock No. | A    | B   | C       | D      |
|-----------|------|-----|---------|--------|
| SGD153BR  | .050 | 3/8 | 2-3/4   | 8-1/4  |
| SGD155CR* | .050 | 1/2 | 2-29/32 | 10-3/8 |

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

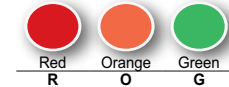


**Push-Pull Spring Tools**

- Designed to securely hold and maneuver small- to medium-sized springs
- Deep V-groove tip and C-groove capture prevents spring from sliding off
- Thicker shank versus picks
- Comfortable, durable acetate handle
- Use to remove light- to medium-duty compression or extension springs, door springs, latch springs, deck tensioner and stabilizer springs on tractors/mowers, brake adjuster springs, throttle return springs and recessed can lights with internal springs; also use to move or position thick-gauge wire and harnesses or to pull cotter pins/latch pins
- Important: These spring tools are non-insulated and should only be used in non-energized applications

| Stock No. | A    | B    | C       | D       |
|-----------|------|------|---------|---------|
| SPRG618R  | 3/32 | 3/16 | 5-29/32 | 9-9/16  |
| SPRG625R  | 7/64 | 1/4  | 5-29/32 | 10-5/16 |

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



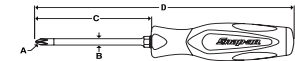
**POZIDRIV® HARD HANDLE **

**✦ Pozidriv® Standard/Hard Handle, Chrome**

- Walls on tips are less tapered than PHILLIPS® tips
- Tips have wedges for a tight fit on Pozidriv® fasteners
- Important: PHILLIPS® tip drivers should not be used on Pozidriv® fasteners (and vice versa), as they will ride out of the recess, round the tool and screw recess corners

Set Contains: SHDZ40R

| Stock No. | A  | B    | C     | D       |   |
|-----------|----|------|-------|---------|---|
| SHDZ22R   | #2 | 1/4  | 1-1/2 | 3-3/4   |   |
| SHDZ31R   | #1 | 3/16 | 3     | 7-1/4   | • |
| SHDZ42R   | #2 | 1/4  | 4     | 8-7/8   | • |
| SHDZ63R   | #3 | 5/16 | 6     | 10-7/8  | • |
| SHDZ84R   | #4 | 3/8  | 8     | 13-7/16 | • |



**RATCHETING SCREWDRIVERS (Blue-Point®)**

**Ratcheting Screwdrivers (Blue-Point®)**

**BSGDMR6 6-Bit Ratcheting Standard Screwdriver (Blue-Point®)**

- 45-tooth ratcheting mechanism ensures precise positioning and movement
- Bits are stored in a bit magazine inside the handle
- Includes (6) 1/4" hex bits: flat tip (4.5 and 5.5), PHILLIPS® (#1 and #2) and TORX® (T15 and T20)
- Bits are a consumable and carry no warranty



- Do not use screwdrivers as prybars, chisels or punches
- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# RATCHETING SCREWDRIVERS/SOFT GRIP HANDLE SYSTEM



Red, Orange or Green—pick your preference with a complete screwdriver from the Soft Grip Ratcheting Screwdriver System. Perfectly matched combinations of magnetic bit holding shanks and handles means a perfect match to the technician's particular requirements.



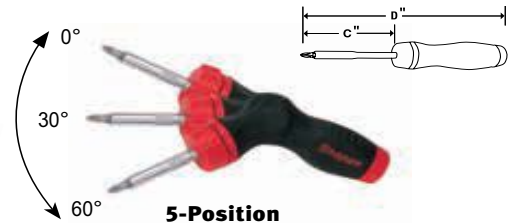
SGDMRCE44



SGDMRC44B



SGDMRC11A



5-Position

## SGD Series Screwdrivers Feature:

- High-quality, interchangeable knurled stainless-steel shanks
- Strong magnetic bit retention
- Smooth ratcheting mechanism (US Patent 7,213,491)
- Soft solvent-resistant handle material provides a comfortable, non-slip surface (US Patent 421,888)
- “Thumbs up” forward/lock/reverse lever for easy directional changes

## All Handles

- Soft, solvent-resistant cover material to provide a positive gripping surface
- “Thumbs up” forward/reverse lever for quick directional changes
- High-quality knurled stainless steel shanks
- Contoured thumb stop at base of handle helps user apply maximum pressure to the fastener
- Smooth ratcheting mechanism
- Use with any SGDMRC series interchangeable shanks
- Patented ergonomic handle shape provides comfort and control
- Comfort crown of handle cap provides low-friction surface for palm while turning

## Five-Position Handle

- Features 0, 30 and 60° locking positions for optimal ergonomics (US Patent 7,481,135)
- Designed for right- or left-hand operation
- Handle stores up to seven insert bits

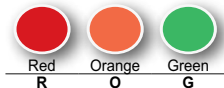
## Stubby Handle

- Compact size for limited clearance applications
- No bit storage in handle

## Standard Handle

- Cap functions as a bit holder when working in tight quarters
- Handle stores up to 10 bits

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Five-Position Handle Ratcheting Screwdrivers

|            | Stock No. | Handle   | Shank      | Flat Tip Bit | PHILLIPS® Bit | C     | D     |
|------------|-----------|----------|------------|--------------|---------------|-------|-------|
| 5-Position | SGDMRCE44 | SGDMRCE4 | SGDMRC1-10 | SDM213B      | SDM222IRB     | 2-5/8 | 8-1/2 |
| Standard   | SGDMRC44B | SGDMRC4  | SGDMRC4-40 | SDM213B      | SDM222IRB     | 3-7/8 | 9-3/4 |
| Stubby     | SGDMRC11A | SGDMRC1A | SGDMRC1-10 | —            | —             | 2     | 4-1/2 |

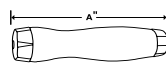
All stubby screwdrivers include SDM222IRB PHILLIPS® Tip Bit.



SGDMRC1A

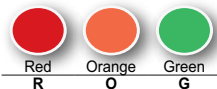


SGDMRC4A



SGDMRCE4

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Soft Grip Handles

| Stock No. | Handle Type | A     |
|-----------|-------------|-------|
| SGDMRC1A  | Stubby      | 2-5/8 |
| SGDMRC4A  | Standard    | 6     |
| SGDMRCE4  | 5-Position  | 5-7/8 |



SGDMRC31RK

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Ratcheting Screwdriver Sets

### SGDMRC31RK Stubby Ratchet Metric Screwdriver Set

- Ideal set for applications where space is at a premium
- Stubby ratcheting screwdriver accepts interchangeable stainless steel shanks with strong magnetic bit retention (2" and 3-3/4" L included)
- Smooth ratchet action with forward/reverse lock mechanism
- Set includes (8) 1/4" sockets (5–13 mm), (6) metric hex bits (2–6 mm), (8) TORX® bits (T9–T40), (2) flat bits, (3) Phillips® ACR® bits and (1) 1/4" Hex-to-1/4" Square Adaptor
- Case included

# RATCHETING SCREWDRIVERS/HARD HANDLE

## Standard Handle

| Stock No.      | Handle Type | Color | C       | D     |
|----------------|-------------|-------|---------|-------|
| <b>SSDMR4B</b> | Standard    | Black | 3-25/32 | 8-3/4 |

Includes SDM211B (3/16") and SDM213B (9/32") Flat Tip bits plus SDM221IRB (#1), SDM222IRB (#2) and SDM223IRB (#3) PHILLIPS® ACR® bits.  
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).



**SSDMR4B**

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Stubby Handle

| Stock No.       | Color | C       | D      | End Cap Replacement |
|-----------------|-------|---------|--------|---------------------|
| <b>SSDMR1A*</b> | Black | 1-15/16 | 4-5/16 | <b>SSDMR4B200</b>   |

Includes SDM222IRB #2 PHILLIPS® ACR® bit.  
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).



**SSDMR1A**

### Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**SSDMR1AR**

## Long Handle

| Stock No.      | Handle Type | Color | C      | D        |
|----------------|-------------|-------|--------|----------|
| <b>SSDMR8A</b> | Long        | Black | 7-7/16 | 12-15/16 |

Includes SDM211B (3/16") and SDM213B (9/32") Flat Tip bits plus SDM221IRB (#1), SDM222IRB (#2) and SDM223IRB (#3) PHILLIPS® ACR® bits.  
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).



**SSDMR8A**

### Colors Available

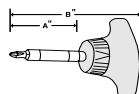


ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## T-Handle

| Stock No.        | Handle           | A     | B       |
|------------------|------------------|-------|---------|
| <b>SSDMRT1†</b>  | T-Handle, Stubby | 2     | 3-15/16 |
| <b>SSDMRT4†</b>  | Standard         | 3-7/8 | 5-27/32 |
| <b>SSDMRT8A*</b> | Long             | 8     | 10      |

Includes SDM222IRB #2 PHILLIPS® ACR® bit.  
To service the drivers above, order RKRSSDMR4AC (Ratcheting Screwdriver Service Kit).



**SSDMRT4R**



**SSDMRT8A**

### Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Interchangeable Shanks

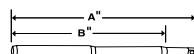
- Use with handles in the Soft Grip Ratcheting Screwdriver System
- Neodymium magnet in shank holds bit securely (US Patent RE36,797)
- 1/4" square drive shanks in standard and flexible styles allow attachment of a wide range of 1/4" drive sockets and accessories

| Stock No.           | Description                      | A     | B     |
|---------------------|----------------------------------|-------|-------|
| <b>SGDMRC1-10</b>   | Magnetic Shank/Bit Holder        | 3-1/4 | 2     |
| <b>SGDMRC4-40</b>   | Magnetic Shank/Bit Holder        | 5     | 3-3/4 |
| <b>SGDMRC4-80</b>   | Magnetic Shank/Bit Holder        | 9     | 7-3/4 |
| <b>SGDMRC4-TM4</b>  | 1/4" Drive Shank                 | 5     | 3-3/4 |
| <b>SGDMRC4-TMF4</b> | Flexible 1/4" Square Drive Shank | 6-1/4 | 5     |
| <b>SGDMRC4-C6*</b>  | Composite Magnetic Bit Holder    | 7-1/4 | 6     |
| <b>SGDMRC-SP</b>    | 1/4" Speeder Shank               | 13    | —     |

\*SGDMRC4-C6 is not UL® Listed. U.S. Patent Number 6,260,445 B1 applies.

### SGDMRC-SP 1/4" Speeder Shank

- Ideal for aviation technicians and other applications where accessibility is limited



**SGDMRC1-10**



**SGDMRC4-40**



**SGDMRC4-80**



**SGDMRC4-TM4**



**SGDMRC4-TMF4**



**SGDMRC4-C6**



**SGDMRC-SP**



• Do not use screwdrivers as prybars, chisels or punches  
• Read safety precautions on pages W1 to W4

# RATCHETING SCREWDRIVER SETS

## Ratcheting Screwdriver Sets

- SGDMRC starter sets include standard handle, medium and long magnetic bit holding shanks plus (2) flat tip bits, (2) PHILLIPS® bits and (1) TORX® bit to meet most basic job requirements



SGDMRC103A

Set Contains:

| Stock No.  | Description               |   |
|------------|---------------------------|---|
| SGDMRC4A   | Ratcheting Handle         | • |
| SGDMRC4-40 | Magnetic Shank/Bit Holder | • |
| SGDMRC4-80 | Magnetic Shank/Bit Holder | • |
| SDM211B    | 3/16" Flat Tip Bit        | • |
| SDM213B    | 9/32" Flat Tip Bit        | • |
| SDM221IRB  | #1 PHILLIPS® ACR® Bit     | • |
| SDM222IRB  | #2 PHILLIPS® ACR® Bit     | • |

Set includes PB146A Storage Case.



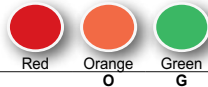
SGDMRC108A

Set Contains:

| Stock No.   | Description               |   |
|-------------|---------------------------|---|
| SGDMRC1A    | Ratcheting Handle         | • |
| SGDMRC4A    | Ratcheting Handle         | • |
| SGDMRC1-10  | Magnetic Shank/Bit Holder | • |
| SGDMRC4-40  | Magnetic Shank/Bit Holder | • |
| SGDMRC4-80  | Magnetic Shank/Bit Holder | • |
| SGDMRC4-TM4 | 1/4" Drive Shank          | • |
| SDM400A     | Master Bit Kit            | • |

Set includes PB146A Storage Case.

### Colors Available



\* Red 0 Orange G Green ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## TORX® Bit Set (Blue-Point®)

Use on BMW® vehicles: under dash and sensors in engine compartment; Cadillac® vehicles: water pumps; Cadillac® CTS, 3.2 L (2003–2004)/Cadillac® Catera 3.0 L (1997–2001): oil drain plug; Ford® vehicles: Escort® (early models): door hinge bolts; GM® vehicles: fender applications; Jeep® vehicles: Cherokee® (1997–1998): door hinge bolts; VW® vehicles (pre-1999): exterior and interior door hinge bolts

### DHW1± 5/16" Hex Drive Reversible Ratcheting Bit Wrench (Blue-Point®)

- Overall length: 10-3/4" (273 mm)
- Low head clearance for access to tight spots
- Internal ring in square drive provides more secure bit retention than magnetic models
- Knurled wheel for fingertip control
- Reverse lever positioned for one-hand operation



DHW1

SHORTORX

Set Contains:

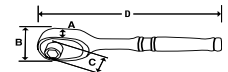
| Stock No. | Description  | Size |   |
|-----------|--|------|---|
| SDMTAS15  | T15  | 5/16 | • |
| SDMTAS20  | T20  | 5/16 | • |
| SDMTAS25  | T25  | 5/16 | • |
| SDMTAS27  | T27  | 5/16 | • |
| SDMTAS30  | TORX® Bit  | 5/16 | • |
| SDMTAS40  | TORX® Bit  | 5/16 | • |
| SDMTAS45  | TORX® Bit  | 5/16 | • |
| DHW1      | 5/16" Hex Drive Reversible Ratcheting Bit Wrench (Blue-Point®) | —    | • |

## Magnetic Ratchet and Bit Set

- Ideal for accessing fasteners in tight areas
- Ratchet features magnetic retention for 1/4 hex bits
- Includes: SDM211B flat tip bit, SDM213B (9/32) flat tip bit, SDM2221IRB (#1) PHILLIPS® ACR® bit, SDM2221RB (#2) PHILLIPS® ACR® bit, SDMT15D (T15) TORX® bit
- Use RKRTM72A Service Kit



TM72SET



| Stock No. |    |    | A    | B     | C     | D      |
|-----------|----|----|------|-------|-------|--------|
| TM72SET   | 72 | 5° | 7/16 | 15/16 | 1-3/4 | 4-7/16 |

# RATCHETING SCREWDRIVER SETS

## Ratcheting Offset

| Stock No. | Description  | Set Contains: |
|-----------|--|---------------|
| BLPBTW4   | 1/4" Drive 4" Mini Ratchet and 1/4" Ratcheting Bit Driver Combination Wrench (Blue-Point®) | •             |
| BLPBTW6   | 1/4" Drive 6" Mini Ratchet and 1/4" Ratcheting Bit Driver Combination Wrench (Blue-Point®) | •             |
| BLPBTW8   | 1/4" Drive 8" Mini Ratchet and 1/4" Ratcheting Bit Driver Combination Wrench (Blue-Point®) | •             |



BLPBTWSET



YA480B



BTWSMPK



BTWOSK

## Ratcheting Offset

### YA480B Ratcheting Right Angle Screwdriver (Blue-Point®)

- Includes (1) flat tip bit, (1) #2 PHILLIPS® bit and (1) #2 Pozidriv® bit

### BTWSMPK± 7 pc Bit Miniature Ratcheting Handle Set (Blue-Point®)

- Includes: (1) BTWSM, (1) BTWOS and (1) BTWROS mini ratcheting handles; (1) SDM213B (9/32") flat tip bit; (1) SDM221IRB (#1); (1) SDM222IRB (#2) PHILLIPS® ACR® bits; (1) SDMT15D (T15) TORX® bit

### BTWOSK± 5 pc Bit Miniature Ratcheting Handle Set (Blue-Point®)

- Includes (1) mini ratcheting handle, (1) flat tip bit (9/32"), (1) PHILLIPS® ACR® bit (#1), (1) PHILLIPS® ACR® bit (#2) and (1) TORX® bit (T15)

### BTWS± Straight Miniature Ratcheting Handle (Blue-Point®)

- Miniature ratcheting handle for use on 1/4" hex bits
- Ideal for working in confined spaces
- 72-tooth ratchet engagement with only 5° movement to engage the next tooth
- Magnetic holder keeps bits in place
- Raised knurled knob for fingertip control
- Reverse lever is easily operated with one hand
- 4-1/2" compact overall length
- Vinyl grip for comfort and control

### BTWOS± 25° Offset Miniature Ratcheting Handle (Blue-Point®)

- 25° offset miniature ratcheting handle for use on 1/4" hex bits
- Ideal for working in confined spaces
- 72-tooth ratchet engagement with only 5° movement to engage the next tooth
- Magnetic holder keeps bits in place
- Raised knurled knob for fingertip control
- Reverse lever is easily operated with one hand
- 4-1/2" compact overall length
- Vinyl grip for comfort and control

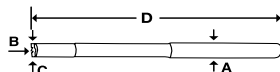
### BTWROS± 25° Reverse Offset Miniature Ratcheting Handle (Blue-Point®)

- 25° Reverse Offset
- 72-tooth ratchet engagement with only 5° movement to engage the next tooth
- 25° offset handles help avoid knuckle injuries
- Magnetic holder keeps bits in place

# SCREW AND NUT STARTERS

## Aluminum Starters

- Spring-loaded steel bits grip screw slot wall to withstand an 8 lb pull
- Bits release automatically when applied torque reaches a certain level



| Stock No. | A    | B           | C               | D     |
|-----------|------|-------------|-----------------|-------|
| SS5A      | 5/16 | Flat Tip    | .032 x 9/32     | 5     |
| SSM3*     | 5/16 | Flat Tip    | .032 x 9/32     | 2-1/2 |
| SSM5A*    | 5/16 | Flat Tip    | .032 x 9/32     | 5-1/4 |
| SSM6A*    | 9/32 | PHILLIPS®   | #3              | 5-1/2 |
| GA260A    | 9/32 | PHILLIPS®   | #2              | 2-5/8 |
| GA261B    | 9/32 | PHILLIPS®   | #3              | 5-5/8 |
| GA199A    | 9/32 | Combination | .032 x 9/32, #2 | 5-7/8 |

\*Aluminum handle with magnet.

### SSR7 Recessed Aluminum Starter (Blue-Point®)

- Round aluminum body with knurled gripping area in center
- Designed to accommodate the most popular sizes of recessed screws: TORX®, Socket Head, PHILLIPS®, etc.
- Opposite end handles #3, #4, #6, #8 and #10 nuts
- Overall length is 6-3/4"



SS5A

SSM5A



SSM6A

GA260A



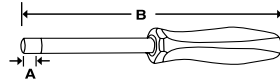
GA199A

SSR7



- Do not use screwdrivers as prybars, chisels or punches
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# NUT DRIVERS



**NDDM900A**



**NDD900B**

## Hard Handle, mm, 6-Point

Set Contains:

**NDDM900A**

| mm | Stock No. | A*   | B   |   |
|----|-----------|------|-----|---|
| 5  | NDDM50A   | 7.5  | 169 | • |
| 6  | NDDM60A   | 7.5  | 169 | • |
| 7  | NDDM70A   | 9.1  | 169 | • |
| 8  | NDDM80A   | 9.9  | 169 | • |
| 9  | NDDM90A   | 9.9  | 188 | • |
| 10 | NDDM100A  | 13.1 | 207 | • |
| 11 | NDDM110A  | 13.1 | 207 | • |
| 12 | NDDM120A  | 13.1 | 221 | • |
| 13 | NDDM130A  | 13.1 | 221 | • |

\*Socket length

Set includes storage tray.

## Hard Handle, inches, 6-Point

- Most popular sizes included in sets
- Tubular, polished shanks with 1" recess
- Sizes marked on side and end of handle for identification
- Handles resist oils and solvents and easily wipe clean

Set Contains:

**NDD900B**

|       | Stock No. | Handle Color | A*    | B       |   |
|-------|-----------|--------------|-------|---------|---|
| 3/16  | NDD106B   | Black        | 19/64 | 6-21/32 | • |
| 7/32  | NDD107BBR | Brown        | 19/64 | 6-21/32 | • |
| 1/4   | NDD108BR  | Red          | 19/64 | 6-21/32 | • |
| 9/32  | NDD109BO  | Orange       | 23/64 | 6-21/32 | • |
| 5/16  | NDD110BY  | Yellow       | 23/64 | 6-21/32 | • |
| 11/32 | NDD111BG  | Green        | 25/64 | 6-21/32 | • |
| 3/8   | NDD112BB  | Blue         | 25/64 | 7-13/32 | • |
| 7/16  | NDD114BBR | Brown        | 33/64 | 8-5/32  | • |
| 1/2   | NDD116BR  | Red          | 33/64 | 8-21/32 | • |
| 9/16  | NDD118BO  | Orange       | 47/64 | 9-1/4   |   |
| 5/8   | NDD120BY  | Yellow       | 47/64 | 9-1/4   |   |

\*Socket length

Set includes storage tray.



**NDSGM600A**

## Ergonomic Soft Grip Handle, mm, 6-Point

- Constructed from high-strength steel and is hardened for durability
- Blade and handle display size markings
- Hole in handle can be used for hanging or tethering the tool
- Ergonomic, soft-grip handles provide comfort and unprecedented turning power

Set Contains:

**NDSGM600A**

| mm    | Stock No. | Handle Color | Overall Length, inches |   |
|-------|-----------|--------------|------------------------|---|
| 7 mm  | NDSGM7A   | Blue         | 8-5/8                  | • |
| 8 mm  | NDSGM8A   | Blue         | 8-5/8                  | • |
| 10 mm | NDSGM10A  | Blue         | 8-5/8                  | • |
| 12 mm | NDSGM12A  | Blue         | 8-5/8                  | • |
| 13 mm | NDSGM13A  | Blue         | 8-5/8                  | • |
| 14 mm | NDSGM14A  | Blue         | 8-5/8                  | • |

Set includes storage tray.



**NDSG600A**

## Ergonomic Soft Grip Handle, inches, 12-Point

Set Contains:

**NDSG600A**

|      | Stock No. | Handle Color | Length |   |
|------|-----------|--------------|--------|---|
| 1/2  | NDSG12A   | Red          | 6-3/8  | • |
| 1/4  | NDSG14A   | Red          | 6-3/8  | • |
| 3/8  | NDSG38A   | Red          | 6-3/8  | • |
| 5/16 | NDSG516A  | Red          | 6-3/8  | • |
| 7/16 | NDSG716A  | Red          | 6-3/8  | • |
| 9/32 | NDSG932A  | Red          | 6-3/8  | • |

Set includes storage tray.

**Master Bit Sets (1/4" hex)**



**SDM400A**

**SDM400A Master SAE Screwdriver Bit Set**

- Includes (33) hex shank bits, (3) adaptors and (1) convenient storage case
- Popular array of adaptors and bits for use with hand or cordless tools
- Bits made in USA

**Includes all bits below:**

| Bit Type                     | Stock No.         | #            |
|------------------------------|-------------------|--------------|
| Flat Tip                     | SDM211B           | .031 x .187" |
|                              | SDM212B           | .035 x .219" |
|                              | SDM213B           | .038 x .250" |
|                              | SDM214C           | .046 x .312" |
| Hex Bit                      | SDM2704D          | 1/16"        |
|                              | SDM2705D          | 5/64"        |
|                              | SDM2706D          | 3/32"        |
|                              | SDM2707D          | 7/64"        |
|                              | SDM2708D          | 1/8"         |
|                              | SDM2709D          | 9/64"        |
|                              | SDM2710D          | 5/32"        |
|                              | SDM2712D          | 3/16"        |
|                              | SDM2714D          | 7/32"        |
|                              | SDM2716D          | 1/4"         |
| PHILLIPS® ACR® Bit           | SDM221IRB         | #1           |
|                              | SDM222IRB         | #2           |
|                              | SDM223IRB         | #3           |
| TORX® Bit                    | SDMT8D            | T8           |
|                              | SDMT9D            | T9           |
|                              | SDMT10D           | T10          |
|                              | SDMT15D           | T15          |
|                              | SDMT20D           | T20          |
|                              | SDMT25D           | T25          |
|                              | SDMT27D           | T27          |
|                              | SDMT30D           | T30          |
|                              | SDMT40D           | T40          |
|                              | Pozidriv® ACR Bit | SDM251IRC    |
| SDM252IRB                    |                   | #2           |
| SDM253IRC                    |                   | #3           |
| Scrulox® Bit                 | BTS0              | #0           |
|                              | BTS1              | #1           |
|                              | BTS2              | #2           |
|                              | BTS3              | #3           |
| 1/4" Hex opening, 1/4" drive | TMBS8A            | —            |
| 1/4" Hex-to-1/4" Square      | GMB3042           | 2            |
| Insert Bit Magnetic Holder   | SDM11A            | —            |
| Storage Case                 | PB90A             | —            |



**SDM410**

**SDM410 Master Metric Screwdriver Bit Set**

- Includes (36) hex shank bits, (3) adaptors and (1) convenient storage case
- Bits made in USA

**Includes all bits below:**

| Bit Type                        | Stock No.                    | #            |    |
|---------------------------------|------------------------------|--------------|----|
| Flat Tip                        | SDM211B                      | .031 x .187" |    |
|                                 | SDM212B                      | .035 x .219" |    |
|                                 | SDM213B                      | .038 x .250" |    |
|                                 | SDM214C                      | .046 x .312" |    |
| PHILLIPS® ACR® Bit              | SDM221IRB                    | #1           |    |
|                                 | SDM222IRB                    | #2           |    |
|                                 | SDM223IRB                    | #3           |    |
| Pozidriv® ACR Bit               | SDM251IRC                    | #1           |    |
|                                 | SDM252IRB                    | #2           |    |
|                                 | SDM253IRC                    | #3           |    |
| PHILLIPS® Limited Clearance Bit | SDM222CZ                     | #2           |    |
| Metric Hex Bit                  | SDMM2702B                    | 2 mm         |    |
|                                 | SDMM2702.5B                  | 2.5 mm       |    |
|                                 | SDMM2703B                    | 3 mm         |    |
|                                 | SDMM2704C                    | 4 mm         |    |
|                                 | SDMM2705C                    | 5 mm         |    |
|                                 | SDMM2706C                    | 6 mm         |    |
|                                 | SDMM2708B                    | 8 mm         |    |
|                                 | SDMM2710B                    | 10 mm        |    |
|                                 | TORX® Bit                    | SDMT8D       | T8 |
|                                 |                              | SDMT9D       | T9 |
| SDMT10D                         |                              | T10          |    |
| SDMT15D                         |                              | T15          |    |
| SDMT20D                         |                              | T20          |    |
| SDMT25D                         |                              | T25          |    |
| SDMT27D                         |                              | T27          |    |
| SDMT30D                         |                              | T30          |    |
| SDMT40D                         |                              | T40          |    |
| TORX® Tamper-Resistant Bit      |                              | SDMTR8       | T8 |
|                                 | SDMTR10                      | T10          |    |
|                                 | SDMTR15                      | T15          |    |
|                                 | SDMTR20                      | T20          |    |
|                                 | SDMTR25                      | T25          |    |
|                                 | SDMTR27                      | T27          |    |
|                                 | SDMTR30                      | T30          |    |
|                                 | SDMTR40                      | T40          |    |
|                                 | 1/4" Hex opening, 1/4" drive | TMBS8A       | —  |
|                                 | 1/4" Hex-to-1/4" Square      | GMB3042      | 2  |
| Insert Bit Magnetic Holder      | SDM11A                       | —            |    |
| Storage Case                    | PB900                        | —            |    |



• Do not use screwdrivers as prybars, chisels or punches  
• Read safety precautions on pages W1 to W4

## BIT SETS



SDM32KT

### Ball Hex Bit Sets (1/4" hex)

#### SDM32KT Ball Hex Set (Blue-Point®)

- 1/4" shank bits for use in difficult access applications where fastener cannot be approached straight on
- 32 pc set

|        | Stock No.    | #      |
|--------|--------------|--------|
| Metric | SDMBMH2702   | 2 mm   |
|        | SDMBMH2702.5 | 2.5 mm |
|        | SDMBMH2703   | 3 mm   |
|        | SDMBMH2704   | 4 mm   |
|        | SDMBMH2705   | 5 mm   |
|        | SDMBMH2706   | 6 mm   |
|        | SDMBMH2707   | 7 mm   |
|        | SDMBMH2708   | 8 mm   |
|        | SDMBMH2709   | 9 mm   |
|        | SDMBMH2710   | 10 mm  |
| SAE    | SDMBH2706    | 3/32"  |
|        | SDMBH2707    | 7/64"  |
|        | SDMBH2708    | 1/8"   |
|        | SDMBH2709    | 9/64"  |
|        | SDMBH2710    | 5/32"  |
|        | SDMBH2712    | 3/16"  |
|        | SDMBH2714    | 7/32"  |
|        | SDMBH2716    | 1/4"   |
|        | SDMBH2720    | 5/16"  |
|        | SDMBH2724    | 3/8"   |

|   | Stock No.  | #     |
|---|------------|-------|
| TORX®                                   | SDMBT10    | T10   |
|   | SDMBT15    | T15   |
|   | SDMBT20    | T20   |
|   | SDMBT25    | T25   |
|   | SDMBT27    | T27   |
|   | SDMBT30    | T30   |
|   | SDMBT40    | T40   |
|   | SDMBT45    | T45   |
|   | SDMBT50    | T50   |
|   | SDMBT55    | T55   |
|   | Bit Holder | SDM13 |
| 1/4" Fem Hex-to-1/4" Fem Sq Dr. Adaptor | TMBS108    | —     |

Sets include storage case.



SDM11KT

#### SDM11KT TORX® Ball Hex Set (Blue-Point®)

- Includes storage case with belt clip



SDMC8RD



SDMC8T

### Ratcheting Screwdriver Bit Sets (1/4" hex)

#### SDMC8D\* 8 pc Diamond Tip Combination Screwdriver Bit Set

- Set includes (1) flat diamond tip bit (1 mm), (3) PHILLIPS® diamond-tip bits (#1, #2, #3) and (4) TORX® diamond-tip bits (T15, T20, T25, T30) in SDMC8 Black Storage Case

#### SDMC8T\*\* 8 pc TORX® Screwdriver Bit Set

- Set includes (8) TORX® bits (T8–T30) in a black storage case (SDMC8)

#### SDMC8† Bit Storage Case

- Case is designed to fit the shank of Snap-on® ratcheting screwdriver allowing the tools to be stored together
- Indexable tray has good bit spacing and pivots up to make bit selection/removal easy
- Case available in Red, Black, Green and Orange

#### Colors Available



|    |    |    |    |   |
|----|----|----|----|---|
| *  | R  | O  | G  | D |
| ** | RT | OT | GT | T |
| †  | R  | O  | G  | — |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

|   | Stock No.  | #     |
|---|------------|-------|
| TORX®                                   | SDMBT10    | T10   |
|   | SDMBT15    | T15   |
|   | SDMBT20    | T20   |
|   | SDMBT25    | T25   |
|   | SDMBT27    | T27   |
|   | SDMBT30    | T30   |
|   | SDMBT40    | T40   |
|   | SDMBT45    | T45   |
|   | SDMBT50    | T50   |
|   | SDMBT55    | T55   |
|   | Bit Holder | SDM13 |
| 1/4" Fem Hex-to-1/4" Fem Sq Dr. Adaptor | TMBS108    | —     |

|                       | Stock No. | #               |
|-----------------------|-----------|-----------------|
| Flat Tip Diamond Bit  | SDMD213†  | 1 mm/<br>5.5 mm |
| PHILLIPS® Diamond Bit | SDMD221†  | #1              |
|                       | SDMD222†  | #2              |
|                       | SDMD223†  | #3              |
| TORX® Diamond Bit     | SDMDT15†  | T15             |
|                       | SDMDT20†  | T20             |
|                       | SDMDT25†  | T25             |
|                       | SDMDT30†  | T30             |
| TORX® Bit             | SDMT8D    | T8              |
|                       | SDMT9D    | T9              |
|                       | SDMT10D   | T10             |
|                       | SDMT15D   | T15             |
|                       | SDMT20D   | T20             |
|                       | SDMT25D   | T25             |
|                       | SDMT27D   | T27             |
|                       | SDVT3020  | T30             |

SDMC8 Storage Case



**Ratcheting Screwdriver Bit Sets  
(1/4" hex)**

**SDMC8P\*\* 8 pc Combination  
Screwdriver Bit Set**

- Set includes (2) flat tip bits (.031" and .038"); (3) PHILLIPS® bits (#1, #2 and #3); (1) limited clearance PHILLIPS® bit #2; (1) Scrulox® bit #2 and (1) 1" adaptor in SDMC8 Black Storage Case

**SDMC8H Screwdriver Bit Set**

- Set includes (8) hex bits 3/32–5/16" in SDMC8 Black Storage Case

**SDMC8MH 8 pc Metric Hex Screwdriver Bit Set**

- Set includes (8) Metric Hex Bits 2–10 mm in SDMC8 Black Storage Case

**SDMC8\* Bit Storage Case**

- Case is designed to fit the shank of Snap-on® ratcheting screwdriver allowing the tools to be stored together
- Indexable tray has good bit spacing and pivots up to make bit selection/removal easy



SDMC8P



SDMC8H



SDMC8MH

| Description                                    | Stock No.      | Size                    |        |
|--|----------------|-------------------------|--------|
| Flat Tip Bit                                   | SDM211B        | .031 x .187"            |        |
|  | SDM213B        | .038 x .250"            |        |
|  |                |                         |        |
| PHILLIPS® ACR®                                 | SDM221RB       | #1                      |        |
|  | SDM222IRB      | #2                      |        |
|  | SDM223IRB      | #3                      |        |
| PHILLIPS® Limited Clearance Bit                | SDM222CZ       | #2                      |        |
| Scrulox® Bit                                   | BTS2           | #2                      |        |
| Hex-to-Square Adaptor, 1/4" Hex to 1/4" Square | GMB3041        | 1/4" Hex-to-1/4" Square |        |
| Hex Bit  | SDM2706D       | 3/32"                   |        |
|  | SDM2708D       | 1/8"                    |        |
|  | SDM2709D       | 9/64"                   |        |
|  | SDM2710D       | 5/32"                   |        |
|  | SDM2712D       | 3/16"                   |        |
|  | SDM2714D       | 7/32"                   |        |
|  | SDM2716D       | 1/4"                    |        |
|  | SDM2720D       | 5/16"                   |        |
|  | Metric Hex Bit | SDMM2702B               | 2 mm   |
|  |                | SDMM2702.5B             | 2.5 mm |
| SDMM2703B                                      |                | 3 mm                    |        |
| SDMM2704C                                      |                | 4 mm                    |        |
| SDMM2705C                                      |                | 5 mm                    |        |
| SDMM2706C                                      |                | 6 mm                    |        |
| SDMM2708B                                      |                | 8 mm                    |        |
| SDMM2710B                                      | 10 mm          |                         |        |

Colors Available

Red  
R

Orange  
O

Green  
G

Black  
B

\* RP OP GP

\*\* RP OP GP

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Power Bit Sets**

**SDMEXT27K 27 pc 1/4" Hex Drive Adaptor and Bit Set  
(Ball-Detent)**

| Description                                    | Stock No. | Size                    |
|--|-----------|-------------------------|
| Flat Tip Bit                                   | SDM211B   | .031 x .187"            |
|  | SDM212B   | .035 x .219"            |
|  | SDM213B   | .038 x .250"            |
| PHILLIPS® ACR®                                 | SDM221RB  | #1                      |
|  | SDM222IRB | #2                      |
|  | SDM223IRB | #3                      |
| PHILLIPS® Power Bit                            | SDM321B   | #1                      |
|  | SDM322B   | #2                      |
|  | SDM323A   | #3                      |
| Magnetic Nutsetter                             | SDMN25    | 1/4" Hex x 1/4"         |
|  | SDMN31    | 1/4" Hex x 5/16"        |
| Scrulox Bit                                    | BTS1      | #1                      |
|  | BTS2      | #2                      |
|  | BTS3      | #3                      |
| TORX® Bit                                      | SDMT10D   | T10                     |
|  | SDMT15D   | T15                     |
|  | SDMT20D   | T20                     |
|  | SDMT25D   | T25                     |
|  | SDMT27D   | T27                     |
|  | SDMT30D   | T30                     |
| Hex-to-Square Adaptor, 1/4" Hex to 1/4" Square | GMB3041   | 1/4" Hex-to-1/4" Square |
|  | GMB3042   | 2                       |
|  | GMB3046   | 6                       |
| Hex-to-Square Adaptor, 1/4" Hex to 3/8" Square | AB3042    | 2                       |
|  | AB3046    | 6                       |
| Insert Bit Magnetic Holder                     | SDM11A    | —                       |
| Quick-Change Coupler, 1/4" Drive               | TMC109A   | —                       |

Sets include storage case



SDMEXT27K



- Do not use chrome or industrial finish hand tools with impact drivers
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**BIT SETS**



**SDMEXT19K**



**SDML19KT**

**Power Bit Sets**

Set Contains:

*SDMEXT19K*

| Description                                    | Stock No. | Size         |   |
|--|-----------|--------------|---|
| Flat Tip Bit                                   | SDM211B   | .031 x .187" | • |
|  | SDM212B   | .035 x .219" | • |
|  | SDM213B   | .038 x .250" | • |
| PHILLIPS® ACR® Bit                             | SDM221IRB | #1           | • |
|  | SDM222IRB | #2           | • |
|  | SDM223IRB | #3           | • |
| PHILLIPS® Power Bit                            | SDM321B   | #1           | • |
|  | SDM322B   | #2           | • |
|  | SDM323A   | #3           | • |
| TORX® Power Bit                                | SDMT315A  | T15          | • |
|  | SDMT320A  | T20          | • |
|  | SDMT325B  | T25          | • |
| Hex-to-Square Adaptor, 1/4" Hex to 1/4" Square | GMB3041   | 1            | • |
|  | GMB3042   | 2            | • |
|  | GMB3046   | 6            | • |
| Hex-to-Square Adaptor, 1/4" Hex to 3/8" Square | AB3042    | 2            | • |
|  | AB3046    | 6            | • |
| Insert Bit Magnetic Holder                     | SDM11A    | —            | • |
| Quick-Change Coupler, 1/4" Drive               | TMC109A   | —            | • |

Set includes storage case.

**SDMEXT19K 19 pc 1/4" Hex Drive Adaptor and Bit Set**

- Complete set includes the most popular sizes and lengths of extensions, adaptors and bits
- 1/4" hex-to-1/4 or 3/8" Square Drives Hex-to-Square Adaptors for use with sockets (2 and 6" long)
- Magnetic bit holder for use with insert bits and quick-change coupler for use with 1/4" hex power bits
- Includes (3) flat tip, (3) PHILLIPS®, (3) PHILLIPS® insert bits and (3) TORX® power bits

**Power Bit Sets**

Set Contains:

*SDML19KT*

| Description                      | Stock No.           | Size         | Length |       |
|----------------------------------|---------------------|--------------|--------|-------|
| Flat Tip Power Bit               | SDM414A             | .034 x .187" | 3      | •     |
|                                  | SDM416A             | .038 x .250" | 3      | •     |
|                                  | SDM614              | .034 x .187" | 6      | •     |
|                                  | SDM616              | .038 x .250" | 6      | •     |
|                                  | PHILLIPS® Power Bit | SDM421B      | #1     | 2-3/4 |
| PHILLIPS® Power Bit              | SDM422B             | #2           | 2-3/4  | •     |
|                                  | SDM423B             | #3           | 2-3/4  | •     |
|                                  | SDM621A             | #1           | 6      | •     |
|                                  | SDM622A             | #2           | 6      | •     |
|                                  | SDM623A             | #3           | 6      | •     |
| TORX® Power Bit                  | SDMT415             | T15          | 2-3/4  | •     |
|                                  | SDMT420             | T20          | 2-3/4  | •     |
|                                  | SDMT425             | T25          | 2-3/4  | •     |
|                                  | SDMT427             | T27          | 2-3/4  | •     |
|                                  | SDMT615             | T15          | 6      | •     |
|                                  | SDMT620             | T20          | 6      | •     |
|                                  | SDMT625             | T25          | 6      | •     |
|                                  | SDMT627             | .250         | 6      | •     |
| Quick-Change Coupler, 1/4" Drive | TMC109A             | —            | —      | •     |

Set includes storage case.

**SDML19KT 19 pc Long Power Bit Set**

- Includes an assortment of popular-sized bits to cover a wide range of applications
- Helps avoid costly damage to work surface by eliminating chuck contact

**CTS561BITXL 14 pc 6" Power Bit Set (Blue-Point®)**

- Comprehensive set includes a stainless steel insert bit adaptor
- Additional length provides greater access and minimizes drill contact with work surface
- Power bits made from tough S2 steel
- T8, T10, T15, T20, T25, T27 and T30
- PHILLIPS® #1, #2 and #3, Square #1 and #2
- SDM611 stainless steel adaptor with magnetic retention
- CTS561BITCS indexable case



**CTS561BITXL**

**CTS561BITSET 23 pc 1/4" Drive Quick-Change Bit Set (Blue-Point®)**

- For Snap-on® cordless screwdrivers, plus other power drivers
- Quick-change hex saves time changing bits
- Manufactured from industrial-grade tool steel
- Includes (22) bits (all 3" long), plus a 1/4" square drive (2" long)
- Includes PHILLIPS® bits #0, #1, #2; flat tip bits 5/32", 3/16", 7/16", 1/4", 9/32"; TORX® bits T10, T15, T20, T25, T27, T30, T40; hex bits 3/32", 7/64, 1/8", 5/32", 3/16", 7/32" and 1/4"
- Includes a storage case



**CTS561BITSET**

**YA52PBSQC 52 pc Power Bit Set (Blue-Point®)**

- Ideal for use with cordless drills and screwdrivers
- Includes (7) six-lobe star (tamper-proof) insert bits, (3) square insert bits, (4) PHILLIPS® insert bits, (4) slotted insert bits, (7) hex insert bits, (2) clutch insert bits, (6) six-lobe star (tamper-proof) power bits, (3) square power bits, (3) PHILLIPS® power bits, (3) slotted power bits, (3) hex power bits, (3) socket adaptors, (1) quick-change chuck, (2) PHILLIPS® double end bits and (1) square bit holder in a storage case



**YA52PBSQC**

## SCREWDRIVER BITS AND ACCESSORIES



SDM611

SDM11A



SSDM10A



TMC109A



TMXKBS6



CFSSB8



FBS8



TMUBS8



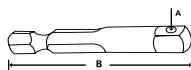
TMBS8A



SDMN31



GMB3046



AB3042

### Screwdriver Bit Holders

#### SDM611 Insert Bit Magnetic Holder (Blue-Point®)

- For quick hex bit changes when used with electric drill, cordless drill or screw gun
- Magnetic bit retention
- 6" long

#### SDM11A Magnetic Bit Retention

- 2-7/8" Long

#### SSDM10A Bits Pocket Box

- Pocket-sized storage system for SDM Series bits
- Includes quick-change bit holder

#### TMC109A Quick Change Coupler

- Use with any 1/4" drive handle
- Spring-release shell retracts to accept 1/4" hex power-type bits
- Ideal for production situations where positive bit retention is required

#### TMXKBS6 1/4" Hex x 1/4" Square 6" Socket

- Used to remove and install various fasteners—allows the ratchet to be used to drive a 1/4" hex screwdriver bit
- 1/4" square drive, 6" extension that accepts different configurations of 1/4" hex bits
- Employs a magnetic end to help hold the bit in place
- Precision-crafted from special alloy steel for strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean

### Screwdriver Bit Sockets

- For use with standard 1/4" hex SDM series screwdriver bits

| Stock No. | Description  |
|-----------|--|
| CFSSB8    | 3/8" Drive Non-Conductive Composite Universal Bit Holder |
| FBS8      | 3/8" Drive Screwdriver Bit Socket                        |
| FBS9*     | 3/8" Drive Screwdriver Bit Socket                        |

\* Use with 5/16" Hex bit

### Magnetic Screwdriver Bit Sockets

- For use with standard 1/4" hex SDM series screwdriver bits

| Stock No. | Description  |
|-----------|--|
| FBSM8A    | 3/8" Drive Magnetic Screwdriver Bit Socket           |
| GTMB8A    | 1/4" Drive Magnetic Screwdriver Bit Socket           |
| TMBS8A    | 1/4" Drive Magnetic Screwdriver Bit Socket           |
| TMUBS8    | 1/4" Drive Magnetic Screwdriver Bit Universal Socket |

### Magnetic Nut Drivers

- Allows ratcheting screwdrivers (with 1/4" hex end) to be used as a nut driver
- Magnet securely holds nut during use

| Stock No. | Size | Hex Size, inches | Length, inches |
|-----------|------|------------------|----------------|
| SDMN25    | 1/4  | 1/4              | 1-3/4          |
| SDMN31    | 5/16 | 1/4              | 1-3/4          |






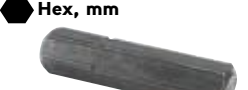
### Hex-to-Square Adaptors

| Stock No. | A           | B |
|-----------|-------------|---|
| GMB3041*  | Ball Detent | 1 |
| GMB3042   | Ball Detent | 2 |
| GMB3046   | Ball Detent | 6 |
| AB3042*   | Ball Detent | 2 |
| AB3044*   | Ball Detent | 4 |
| AB3046*   | Ball Detent | 6 |

\*Insert Bit Style, non-impact

# 1/4" HEX SHANK BITS

- Durable alloy steel for long life
- Specialized heat treat for consistent quality
- Precision milled tip geometry for optimal fastener engagement

|  | Stock No.  | #            |        |
|--|--|--------------|--------|
| <br>Flat Tip    | SDM211B**  | .031 x .187" |        |
|  | SDM212B**  | .035 x .219" |        |
|  | SDM213B**  | .038 x .250" |        |
|  | SDM214C**  | .046 x .312" |        |
|  | SDM215C**  | .055 x .375" |        |
| <br>PHILLIPS®   | SDM221C  | #1           |        |
|  | SDM222ZB   | #2           |        |
|  | SDM222CZ*  | #2           |        |
| <br>Clutch A    | SDM242   | 3/32"        |        |
|  | SDM243   | 1/8"         |        |
|  | SDM244   | 5/32"        |        |
|  | SDM245   | 3/16"        |        |
|  | SDM246   | 1/4"         |        |
| <br>Clutch G    | SDM242G  | 3/32"        |        |
|  | SDM243G  | 1/8"         |        |
|  | SDM244G  | 5/32"        |        |
|  | SDM245G  | 3/16"        |        |
|  | SDM246G  | 1/4"         |        |
| <br>Hex, inches | SDM2704D**   | 1/16"        |        |
|  | SDM2705D**   | 5/64"        |        |
|  | SDM2706D**   | 3/32"        |        |
|  | SDM2707D**   | 7/64"        |        |
|  | SDM2708D**   | 1/8"         |        |
|  | SDM2709D**   | 9/64"        |        |
|  | SDM2710D**   | 5/32"        |        |
|  | SDM2712D**   | 3/16"        |        |
|  | SDM2714D**   | 7/32"        |        |
|  | SDM2716D**   | 1/4"         |        |
|  | SDM2720D   | 5/16"        |        |
|  | SDM2724D   | 3/8"         |        |
|  | <br>Hex, mm | SDMM2702B    | 2 mm   |
|  |  | SDMM2702.5B  | 2.5 mm |
|  |  | SDMM2703B    | 3 mm   |
| SDMM2704C  |  | 4 mm         |        |
| SDMM2705C  |  | 5 mm         |        |
| SDMM2706C  |  | 6 mm         |        |
| SDMM2708B  |  | 8 mm         |        |
| SDMM2710B  |  | 10 mm        |        |



SDM253IRC



SDM222IRB

## Pozidriv® ACR® Installer/Remover






- Anti-cam-out ribs bite into fasteners and help prevent damage to the fastener

| Stock No. | #  |
|-----------|----|
| SDM251IRC | #1 |
| SDM252IRB | #2 |
| SDM252IRC | #2 |
| SDM253IRC | #3 |

## PHILLIPS® ACR®

- Anti-cam-out ribs bite into fasteners and help prevent damage to the fastener

| Stock No. | #  |
|-----------|----|
| SDM221IRB | #1 |
| SDM222IRB | #2 |
| SDM223IRB | #3 |

|  | Stock No. | #   |
|--|-----------|-----|
| <br>Pozidriv®      | SDM251C   | #1  |
|  | SDM252C   | #2  |
|  | SDM253C   | #3  |
| <br>TORX®          | SDMT6A    | T6  |
|  | SDMT7A    | T7  |
|  | SDMT8D**  | T8  |
|  | SDMT9D**  | T9  |
|  | SDMT10D** | T10 |
|  | SDMT15D** | T15 |
|  | SDMT20D** | T20 |
|  | SDMT25D** | T25 |
|  | SDMT27D** | T27 |
|  | SDMT30D** | T30 |
| SDMT40D**  | T40       |     |
| <br>Square         | BTS0      | #0  |
|  | BTS1      | #1  |
|  | BTS2      | #2  |
|  | BTS3      | #3  |
| <br>Tri-Wing       | BTW0A     | #0  |
|  | BTW1A     | #1  |
|  | BTW2A     | #2  |
|  | BTW3A     | #3  |
|  | BTW4A     | #4  |
|  | BTW5A     | #5  |
| <br>Double Square | BTSS2     | #2  |

\*Small profile/narrow tip \*\*Included as part of SDM400A Master Bit Set

- BTS and BTSS Series bits can be used on recessed double square fasteners commonly used on trailer and RV exteriors
- Bit size varies by application



SDMTW9A



SDMTR10

## Wobble Bits

- Unique geometry provides up to 18° of angle "wobble"

| Stock No. | #   |
|-----------|-----|
| SDMTW8A   | T8  |
| SDMTW9A   | T9  |
| SDMTW10A  | T10 |
| SDMTW15A  | T15 |
| SDMTW20A  | T20 |
| SDMTW25A  | T25 |
| SDMTW27A  | T27 |
| SDMTW30A  | T30 |
| SDMTW40A  | T40 |

## Tamper-Resistant TORX®

- Bits SDMTR8–SDMTR40 are 1/4"; bits SDMTR45 and SDMTR50 are 5/16"

| Stock No. | #   | Diameter, inches |
|-----------|-----|------------------|
| SDMTR8    | T8  | 1/4              |
| SDMTR10   | T10 | 1/4              |
| SDMTR15   | T15 | 1/4              |
| SDMTR20   | T20 | 1/4              |
| SDMTR25   | T25 | 1/4              |
| SDMTR27   | T27 | 1/4              |
| SDMTR30   | T30 | 1/4              |
| SDMTR40   | T40 | 1/4              |
| SDMTR45   | T45 | 5/16             |
| SDMTR50   | T50 | 5/16             |



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## 1/4" HEX SHANK BITS



SDMV208

### Valve and Stem

- Durable alloy steel for long life
- Specialized heat treat for consistent quality
- Precision milled tip geometry for optimal fastener engagement

### SDMV208 Tire Valve Bit

- Designed for use with all Snap-on® ratcheting screwdrivers
- Similar to what is covered by the TR107A, TR108, TR117O screwdrivers
- 1/4" Hex insert bit, 1" length

### Mortorq® Bits

- Designed for use with Mortorq® fasteners
- Used on aerospace applications
- Low-profile head design, high-strength torque acceptance and lighter weight
- Bits designed to allow fastener removal at various angles for ease of use
- Bits with hex size of 1/4" to be used with Snap-on® ratcheting screwdrivers
- Exact manufacturing processes ensure precise fastener engagement
- Part numbers stamped on bit

| Bit Type | Stock No. | Size |
|----------|-----------|------|
| Mortorq® | SDMMT00   | #00  |
|          | SDMMT1    | #1   |
|          | SDMMT2    | #2   |
|          | SDMMT3    | #3   |

### Diamond Tip Bits

- Diamond particles “bite” into fasteners, which minimizes slipping
- Diamond particles are extremely hard for long-lasting performance and minimal wear

|           | Stock No. | #             |
|-----------|-----------|---------------|
| PHILLIPS® | SDMD221‡  | #1            |
|           | SDMD222‡  | #2            |
|           | SDMD223‡  | #3            |
| Flat Tip  | SDMD212‡  | .8 mm/5.5 mm  |
|           | SDMD213‡  | 1 mm/5.5 mm   |
|           | SDMD214‡  | 1.2 mm/6.5 mm |
| TORX®     | SDMDT10‡  | T10           |
|           | SDMDT15‡  | T15           |
|           | SDMDT20‡  | T20           |
|           | SDMDT25‡  | T25           |
|           | SDMDT30‡  | T30           |
|           | SDMDT40‡  | T40           |
|           | SDMD321‡  | #1            |
| SDMD322‡  | #2        |               |
| SDMD323‡  | #3        |               |

## INSERT BITS



BLPTMBS1414

### TORX® Insert Bits

|       | Stock No. | #   | Length, inches |
|-------|-----------|-----|----------------|
| TORX® | SDMTA40   | T40 | .312           |
|       | SDMTA45   | T45 | .312           |
|       | SDMTA50   | T50 | .312           |
|       | SDMTA55   | T55 | .312           |

### Specialty Insert Bits

|  | Stock No. | Dimension A, Shank Dia., inches |
|--|-----------|---------------------------------|
|  | SDM3D24   | .312                            |

### SDM3D24 Flat Tip/#2 PHILLIPS® Insert Bit

- Double end bit PHILLIPS® #2 and .05" slotted tip
- For use with SDDDM Series pocket screwdrivers

### Bit Holder and 1/4" Bits (Blue-Point®)

| Stock No.   | Description   | Size  |
|-------------|---|-------|
| BLPTMBS1414 | Bit Holder (Blue-Point®)                                | —     |
| BLPTMBS3814 | Bit Holder (Blue-Point®)                                | —     |
| BLPHB14     | Hex Bit (Blue-Point®)                                   | 1/4"  |
| BLPHB18     | Hex Bit (Blue-Point®)                                   | 1/8"  |
| BLPHB316    | Hex Bit (Blue-Point®)                                   | 3/16" |
| BLPHB532    | Hex Bit (Blue-Point®)                                   | 5/32" |
| BLPHB732    | Hex Bit (Blue-Point®)                                   | 7/32" |
| BLPHB964    | Hex Bit (Blue-Point®)                                   | 9/64" |
| BLPHBM3     | Metric Hex Bit (Blue-Point®)                            | 3 mm  |
| BLPHBM4     | Metric Hex Bit (Blue-Point®)                            | 4 mm  |
| BLPHBM5     | Metric Hex Bit (Blue-Point®)                            | 5 mm  |
| BLPHBM6     | Metric Hex Bit (Blue-Point®)                            | 6 mm  |
| BLPTB10TP   | 1/4" Drive T10 TORX® Tamper-Resistant Bit (Blue-Point®) | T10   |
| BLPTB15TP   | 1/4" Drive T15 TORX® Tamper-Resistant Bit (Blue-Point®) | T15   |
| BLPTB20TP   | 1/4" Drive T20 TORX® Tamper-Resistant Bit (Blue-Point®) | T20   |
| BLPTB25TP   | 1/4" Drive T25 TORX® Tamper-Resistant Bit (Blue-Point®) | T25   |
| BLPTB30TP   | 1/4" Drive T30 TORX® Tamper-Resistant Bit (Blue-Point®) | T30   |
| BLPFB14     | 1/4" Drive SAE 1/4" Flat Tip Bit (Blue-Point®)          | 1/4"  |
| BLPFB316    | 1/4" Drive SAE 3/16" Flat Tip Bit (Blue-Point®)         | 3/16" |
| BLPFB532    | 1/4" Drive SAE 5/32" Flat Tip Bit (Blue-Point®)         | 5/32" |
| BLPFB732    | 1/4" Drive SAE 7/32" Flat Tip Bit (Blue-Point®)         | 7/32" |
| BLPFB932    | 1/4" Drive SAE 9/32" Flat Tip Bit (Blue-Point®)         | 9/32" |
| BLPPB0      | 1/4" Drive #0 PHILLIPS® Tip Bit (Blue-Point®)           | #0    |
| BLPPB1      | 1/4" Drive #1 PHILLIPS® Tip Bit (Blue-Point®)           | #1    |
| BLPPB2      | 1/4" Drive #2 PHILLIPS® Tip Bit (Blue-Point®)           | #2    |
| BLPPB3      | 1/4" Drive #3 PHILLIPS® Tip Bit (Blue-Point®)           | #3    |
| BLPSQB1     | 1/4" Drive #1 Square Tip Bit (Blue-Point®)              | #1    |
| BLPSQB2     | 1/4" Drive #2 Square Tip Bit (Blue-Point®)              | #2    |

**PHILLIPS® (Power)**

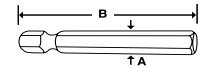
|  | Stock No. | #  |      | A    | B       |
|--|-----------|----|------|------|---------|
|  | SDM220A   | #0 | 1/4  | —    | 1       |
|  | SDM320A   | #0 | 1/4  | .125 | 1-15/16 |
|  | SDM321B   | #1 | 1/4  | .187 | 1-15/16 |
|  | SDM322B   | #2 | 1/4  | .234 | 1-15/16 |
|  | SDM323A   | #3 | 1/4  | .234 | 1-15/16 |
|  | SDM421B   | #1 | 1/4  | .187 | 2-3/4   |
|  | SDM422B   | #2 | 1/4  | .234 | 2-3/4   |
|  | SDM423B   | #3 | 1/4  | .234 | 2-3/4   |
|  | SDM521A   | #1 | 1/4  | .187 | 3-1/2   |
|  | SDM522A   | #2 | 1/4  | .234 | 3-1/2   |
|  | SDM523A   | #3 | 1/4  | .234 | 3-1/2   |
|  | SDM621A   | #1 | 1/4  | .187 | 6       |
|  | SDM622A   | #2 | 1/4  | .234 | 6       |
|  | SDM623A   | #3 | 1/4  | .234 | 6       |
|  | SDMA421   | #1 | 5/16 | .250 | 3       |
|  | SDMA422A  | #2 | 5/16 | .250 | 3       |
|  | SDMA423A  | #3 | 5/16 | .296 | 3       |
|  | SDMB422A  | #2 | 7/16 | .312 | 3       |
|  | SDMB423A  | #3 | 7/16 | .312 | 3       |
|  | SDMB424A  | #4 | 7/16 | .375 | 3       |
|  | SDMB522A  | #2 | 7/16 | .312 | 4-1/2   |
|  | SDMB523A  | #3 | 7/16 | .312 | 4-1/2   |
|  | SDMB524A  | #4 | 7/16 | .375 | 4-1/2   |
|  | SDMB622   | #2 | 7/16 | .312 | 6       |
|  | SDMB623A  | #3 | 7/16 | .312 | 6       |
|  | SDMB624A  | #4 | 7/16 | .312 | 6       |

**Flat Tip**

|  | Stock No. | #            |     | A    | B       |
|--|-----------|--------------|-----|------|---------|
|  | SDM311B   | .026 x .122" | 1/4 | .187 | 1-15/16 |
|  | SDM312B   | .028 x .134" | 1/4 | .187 | 1-15/16 |
|  | SDM313B   | .032 x .154" | 1/4 | .187 | 1-15/16 |
|  | SDM314B   | .034 x .187" | 1/4 | .187 | 1-15/16 |
|  | SDM315A   | .036 x .215" | 1/4 | .234 | 1-15/16 |
|  | SDM316A   | .038 x .250" | 1/4 | .234 | 1-15/16 |
|  | SDM317A   | .042 x .275" | 1/4 | .234 | 1-15/16 |
|  | SDM318A   | .046 x .312" | 1/4 | .234 | 1-15/16 |
|  | SDM319A   | .050 x .360" | 1/4 | .234 | 1-15/16 |
|  | SDM411B   | .026 x .122" | 1/4 | .234 | 3       |
|  | SDM412B   | .028 x .134" | 1/4 | .187 | 3       |
|  | SDM414A   | .034 x .187" | 1/4 | .187 | 3       |
|  | SDM415A   | .036 x .215" | 1/4 | .250 | 3       |
|  | SDM416A   | .038 x .250" | 1/4 | .234 | 3       |
|  | SDM417A   | .042 x .275" | 1/4 | .234 | 3       |
|  | SDM418A   | .046 x .312" | 1/4 | .234 | 3       |
|  | SDM419A   | .050 x .360" | 1/4 | .234 | 3       |
|  | SDM511A   | .026 x .122" | 1/4 | .187 | 3-1/2   |
|  | SDM512A   | .028 x .134" | 1/4 | .187 | 3-1/2   |
|  | SDM513A   | .032 x .154" | 1/4 | .187 | 3-1/2   |
|  | SDM514A   | .034 x .187" | 1/4 | .187 | 3-1/2   |
|  | SDM515A   | .036 x .215" | 1/4 | .234 | 3-1/2   |
|  | SDM516A   | .038 x .250" | 1/4 | .234 | 3-1/2   |
|  | SDM517A   | .042 x .275" | 1/4 | .234 | 3-1/2   |
|  | SDM518A   | .046 x .312" | 1/4 | .234 | 3-1/2   |
|  | SDM519A   | .050 x .360" | 1/4 | .234 | 3-1/2   |
|  | SDM614    | .034 x .187" | 1/4 | .187 | 6       |
|  | SDM616    | .038 x .250" | 1/4 | .234 | 6       |



SDM3611A



**PHILLIPS® ACR®/Installer (Power)**

| Stock No. | #  |     | A    | B       |
|-----------|----|-----|------|---------|
| SDM3611A  | #1 | 1/4 | .187 | 1-15/16 |
| SDM3621A  | #2 | 1/4 | .234 | 1-15/16 |
| SDM3631A  | #3 | 1/4 | .234 | 1-15/16 |



SDM3611RA

**PHILLIPS® ACR®/Removal (Power)**

| Stock No. | #  |     | A    | B       |
|-----------|----|-----|------|---------|
| SDM3611RA | #1 | 1/4 | .187 | 1-15/16 |
| SDM3621RA | #2 | 1/4 | .234 | 1-15/16 |
| SDM3631RA | #3 | 1/4 | .234 | 1-15/16 |

**TORX® (Power)**

|  | Stock No. | #   |     | A    | B       |
|--|-----------|-----|-----|------|---------|
|  | SDMT307A  | T7  | 1/4 | .140 | 1-15/16 |
|  | SDMT308A  | T8  | 1/4 | .140 | 1-15/16 |
|  | SDMT309A  | T9  | 1/4 | .140 | 1-15/16 |
|  | SDMT310A  | T10 | 1/4 | .140 | 1-15/16 |
|  | SDMT315A  | T15 | 1/4 | .140 | 1-15/16 |
|  | SDMT320A  | T20 | 1/4 | .203 | 1-15/16 |
|  | SDMT325B  | T25 | 1/4 | .203 | 1-15/16 |
|  | SDMT327A  | T27 | 1/4 | .203 | 1-15/16 |
|  | SDMT330A  | T30 | 1/4 | .250 | 1-15/16 |
|  | SDMT340A  | T40 | 1/4 | .250 | 1-15/16 |
|  | SDMT407   | T7  | 1/4 | .140 | 2-3/4   |
|  | SDMT408   | T8  | 1/4 | .140 | 2-3/4   |
|  | SDMT409   | T9  | 1/4 | .140 | 2-3/4   |
|  | SDMT410   | T10 | 1/4 | .140 | 2-3/4   |
|  | SDMT415   | T15 | 1/4 | .140 | 2-3/4   |
|  | SDMT420   | T20 | 1/4 | .203 | 2-3/4   |
|  | SDMT425   | T25 | 1/4 | .203 | 2-3/4   |
|  | SDMT427   | T27 | 1/4 | .203 | 2-3/4   |
|  | SDMT430   | T30 | 1/4 | .250 | 2-3/4   |
|  | SDMT440   | T40 | 1/4 | .250 | 2-3/4   |
|  | SDMT507   | T7  | 1/4 | .140 | 3-1/2   |
|  | SDMT508   | T8  | 1/4 | .140 | 3-1/2   |
|  | SDMT510   | T10 | 1/4 | .140 | 3-1/2   |
|  | SDMT515   | T15 | 1/4 | .140 | 3-1/2   |
|  | SDMT520   | T20 | 1/4 | .203 | 3-1/2   |
|  | SDMT525   | T25 | 1/4 | .203 | 3-1/2   |
|  | SDMT527   | T27 | 1/4 | .203 | 3-1/2   |
|  | SDMT530   | T30 | 1/4 | .250 | 3-1/2   |
|  | SDMT540   | T40 | 1/4 | .250 | 3-1/2   |
|  | SDMT607   | T7  | 1/4 | .140 | 6       |
|  | SDMT608   | T8  | 1/4 | .140 | 6       |
|  | SDMT609   | T9  | 1/4 | .140 | 6       |
|  | SDMT610   | T10 | 1/4 | .156 | 6       |
|  | SDMT615   | T15 | 1/4 | .156 | 6       |
|  | SDMT620   | T20 | 1/4 | .187 | 6       |
|  | SDMT625   | T25 | 1/4 | .234 | 6       |
|  | SDMT627   | T27 | 1/4 | .250 | 6       |
|  | SDMT630   | T30 | 1/4 | .250 | 6       |
|  | SDMT640   | T40 | 1/4 | .250 | 6       |



- Do not use chrome or industrial finish hand tools with impact drivers
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

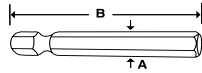
## POWER BITS



SDM351B



SDM451A



### ✦ Pozidriv® (Power)

| Stock No. | #  | 1/4" | A    | B       |
|-----------|----|------|------|---------|
| SDM351B   | #1 | 1/4  | .187 | 1-15/16 |
| SDM352B   | #2 | 1/4  | .234 | 1-15/16 |
| SDM353B   | #3 | 1/4  | .234 | 1-15/16 |
| SDM451A   | #1 | 1/4  | .187 | 2-3/4   |
| SDM452A   | #2 | 1/4  | .234 | 2-3/4   |
| SDM453A   | #3 | 1/4  | .234 | 2-3/4   |
| SDM551A   | #1 | 1/4  | .187 | 3-1/2   |
| SDM552A   | #2 | 1/4  | .234 | 3-1/2   |
| SDM553A   | #3 | 1/4  | .234 | 3-1/2   |
| SDM651A   | #1 | 1/4  | .187 | 6       |
| SDM652A   | #2 | 1/4  | .234 | 6       |
| SDM653A   | #3 | 1/4  | .234 | 6       |



SDMM3702



SDMM37025

### ◆ Hex, mm (Power)

| Stock No. | mm  | A   | B       |
|-----------|-----|-----|---------|
| SDMM3702  | 2   | .09 | 1-15/16 |
| SDMM37025 | 2.5 | .11 | 1-15/16 |
| SDMM3703  | 3   | .13 | 1-15/16 |
| SDMM3704  | 4   | .18 | 1-15/16 |
| SDMM3705  | 5   | .22 | 1-15/16 |
| SDMM3706  | 6   | .27 | 1-15/16 |
| SDMM3707  | 7   | .31 | 1-15/16 |
| SDMM3708  | 8   | .36 | 1-15/16 |
| SDMM3710  | 10  | .45 | 1-15/16 |



SDMTS601

### ■ Square

| Stock No. | #  | 1/4" |
|-----------|----|------|
| SDMTS601  | #1 | 6    |
| SDMTS602  | #2 | 6    |



SDMTR308

### ✦ Tamper-Resistant TORX®

| Stock No. | #   | Length, inches |
|-----------|-----|----------------|
| SDMTR308  | T8  | 1-15/16        |
| SDMTR310  | T10 | 1-15/16        |
| SDMTR315  | T15 | 1-15/16        |
| SDMTR320  | T20 | 1-15/16        |
| SDMTR325  | T25 | 1-15/16        |
| SDMTR327  | T27 | 1-15/16        |
| SDMTR330  | T30 | 1-15/16        |



SDMA4708



SDM3704

### ◆ Hex, inches (Power)

| Stock No. | #    | 1/4" | A    | B       |
|-----------|------|------|------|---------|
| SDMA4708  | 1/8  | 5/16 | .234 | 3       |
| SDMA4710  | 5/32 | 5/16 | .234 | 3       |
| SDMA4712  | 3/16 | 5/16 | .234 | 3       |
| SDMA4714  | 7/32 | 5/16 | .281 | 3       |
| SDMA4716  | 1/4  | 5/16 | .281 | 3       |
| SDMA4720  | 5/16 | 5/16 | .312 | 3       |
| SDMA4724  | 3/8  | 5/16 | .312 | 3       |
| SDM3704   | 1/16 | 1/4  | .115 | 1-15/16 |
| SDM3705   | 5/64 | 1/4  | .234 | 1-15/16 |
| SDM3706   | 3/32 | 1/4  | .234 | 1-15/16 |
| SDM3707   | 7/64 | 1/4  | .234 | 1-15/16 |
| SDM3708   | 1/8  | 1/4  | .234 | 1-15/16 |
| SDM3709   | 9/64 | 1/4  | .234 | 1-15/16 |
| SDM3710   | 5/32 | 1/4  | .234 | 1-15/16 |
| SDM3712   | 3/16 | 1/4  | .234 | 1-15/16 |
| SDM3714   | 7/32 | 1/4  | .250 | 1-15/16 |
| SDM3716   | 1/4  | 1/4  | .250 | 1-15/16 |

## AWLS, HOOKS AND PICKS



SH6ASA

### Awls/Hard Grip

| Stock No. | Blade Length, inches | Overall Length, inches |
|-----------|----------------------|------------------------|
| SH6ASA    | 4-3/4                | 6-5/8                  |



## Awls and Hooks/Instinct® Soft Grip

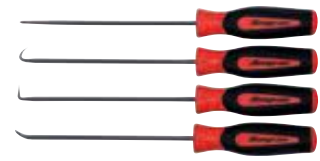
- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric and cleaning crevices

### SGLASA604 and SGLASH1204 sets feature:

- Heavy-duty alloy replaceable steel blades for strength
- Exclusive 45° tip geometry is ideal for pulling wires in tight areas
- Longer blades offer better access in hard-to-reach areas
- Larger handles for a comfortable, secure grip

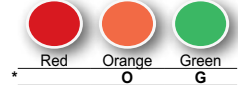
| Stock No.    | Description                               | Blade Diameter, inches | Overall Length, inches | Blade Length, inches |   |   |   |
|--------------|---|------------------------|------------------------|----------------------|---|---|---|
| SG4ASABR     | Instinct® Awl                             | 1/4                    | 8                      | 3-3/4                | • |   |   |
| SG4ASHBR     | Instinct® Hook                            | 1/4                    | 8                      | 3-3/4                | • |   |   |
| SG5ASABR†    | Instinct® Awl                             | 1/4                    | 9-5/8                  | 4-3/4                | • |   |   |
| SG7ASABR     | Instinct® Awl                             | 1/4                    | 10-5/8                 | 5-3/4                | • |   |   |
| SGL6ASABR    | Instinct® Long Heavy-Duty Awl             | 3/16                   | 10-5/32                | 6                    |   | • |   |
| SGL6ASO45B*  | Instinct® Long Heavy-Duty 45° Offset Pick | 3/16                   | 10-5/32                | 6                    |   | • |   |
| SGL6ASH45B*  | Instinct® Long Heavy-Duty 45° Pick        | 3/16                   | 10-5/32                | 6                    |   | • | • |
| SGL6ASH90B*  | Instinct® Long Heavy-Duty 90° Pick        | 3/16                   | 10-5/32                | 6                    |   | • | • |
| SGL12ASH45B* | Instinct® Long Heavy-Duty 45° Pick        | 3/16                   | 16-5/32                | 12                   |   |   | • |
| SGL12ASH90B* | Instinct® Long Heavy-Duty 90° Pick        | 3/16                   | 16-5/32                | 12                   |   |   | • |

Set Contains:  
 SGLASA604BR\*\*  
 SGLASH1204BR\*\*  
 SGASA104BR



SGLASA604BR

### Colors Available



\* R O G  
 \*\* R O G  
 ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Miniature Awls, Hooks and Picks/Soft Grip

- Comfortable, nonslip Instinct® handle
- Strong special steel blades for lasting performance
- High-polish finish
- Blades are replaceable
- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric, and cleaning crevices

| Stock No.  | Description                      | Blade Diameter, inches | Overall Length, inches | Blade Length, inches |   |
|------------|----------------------------------|------------------------|------------------------|----------------------|---|
| SG3ASACR   | Instinct® Mini Awl               | 1/8                    | 6                      | 3-1/8                | • |
| SG3ASH45CR | Instinct® 45° Tip Miniature Pick | 1/8                    | 6                      | 3-1/8                | • |
| SG3ASH90CR | Instinct® 90° Tip Miniature Pick | 1/8                    | 6                      | 3-1/8                | • |
| SG3ASHCR   | Instinct® Miniature Hook         | 1/8                    | 6                      | 3-1/8                | • |

Set Contains:  
 SGASA204CR



SGASA204CR

### Colors Available



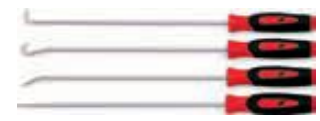
\* R O G  
 \*\* R O G  
 ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Long Small Size Awls, Hooks and Picks/Soft Grip

- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric, and cleaning crevices

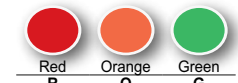
| Stock No.   | Description                           | Blade Diameter, inches | Overall Length, inches | Blade Length, inches |   |
|-------------|---------------------------------------|------------------------|------------------------|----------------------|---|
| SGL3ASACR   | Long Mini Awl                         | 9/64                   | 9-23/32                | 7                    | • |
| SGL3ASH45CR | Instinct® Long 45° Tip Miniature Pick | 9/64                   | 9-23/32                | 7                    | • |
| SGL3ASH90CR | Instinct® Long 90° Tip Miniature Pick | 9/64                   | 9-23/32                | 7                    | • |
| SGL3ASHCR   | Instinct® Long Miniature Hook         | 9/64                   | 9-23/32                | 7                    | • |

Set Contains:  
 SGLASA204CR



SGLASA204CR

### Colors Available



\* R O G  
 \*\* R O G  
 ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Seal Removal Tools/Soft Grip

- Rounded tip with blended radius edge allows easy removal of seals or O-rings while reducing chance of damage to seal or finished surface
- (2) tip configurations and (2) blade lengths handle most seal removal situations
- Industrial black finish blades
- Applications include transmissions, heater and vacuum hoses, oil pump drive shaft seals, injectors and fuel rail O-rings, inner tie rod rack boot and CV boot removal, fork seals and caliper dust boot assemblies on Harley-Davidson® and other motorcycles and steering racks and pumps

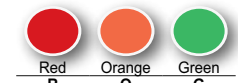
| Stock No. | Tip Style | Overall Length, inches | Blade Length, inches |   |
|-----------|-----------|------------------------|----------------------|---|
| SGSR1AR   | Spoon     | 8                      | 5-1/4                | • |
| SGSR2AR   | Spoon     | 5-11/32                | 2-1/2                | • |
| SGSR3AR   | Contoured | 5-11/32                | 2-1/2                | • |
| SGSR4AR   | Contoured | 8                      | 5-1/4                | • |

Set Contains:  
 SGSR104AR



SGSR104AR

### Colors Available



\* R O G  
 \*\* R O G  
 ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Do not use bits with impact drivers  
 • †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

## STANDARD AND EXTRA LONG AWLS, HOOKS AND PICKS



PSLR6



PSLR4LT

### Picks and Scribes/Extra-Long (Blue-Point®)

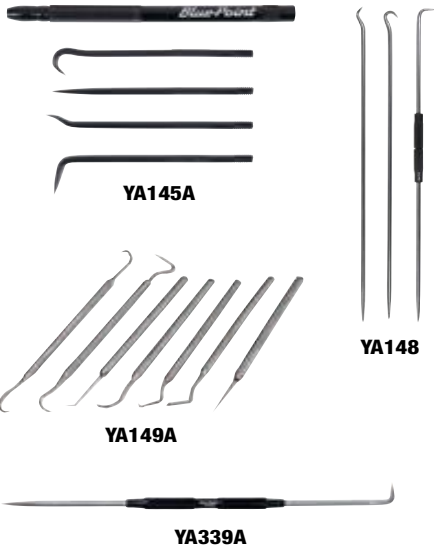
- Use to separate wires, remove small fuses, O-rings, retrieve small parts or mark metal and plastic surfaces
- Shank diameter is 0.02" thicker than standard picks for added durability and extended tool life
- Each pick is 9-3/4" (247.7 mm) long

| Stock No. | Description                                | Set Contains: |       |
|-----------|--|---------------|-------|
|           |  | PSLR4         | PSLR6 |
| PSLR4-1   | Extra-Long Hook Pick (Blue-Point®)         | •             | •     |
| PSLR4-2   | Extra-Long 90° Hook Pick (Blue-Point®)     | •             | •     |
| PSLR4-3   | Extra-Long Straight Pick (Blue-Point®)     | •             | •     |
| PSLR4-4   | Extra-Long Complex Pick (Blue-Point®)      | •             | •     |
| PSLR4-5   | Extra-Long Combination Pick (Blue-Point®)  |               | •     |
| PSLR4-6   | Extra-Long Double Angle Pick (Blue-Point®) |               | •     |

### Picks and Scribes/Extra-Long Lighted (Blue-Point®)

- LED lighted hook and pick set allows easier viewing in dark and hard-to-reach areas
- Made of durable carbon heat-treated steel
- Ergonomic soft grip contoured handle
- Each pick measures 9-3/4" long (247.7 mm)
- Push-button LED switch on end of handle
- Each pick requires (3) LR41 batteries (included); replacement battery RSND384392PK

| Stock No. | Description                                    | Set Contains: |  |
|-----------|--|---------------|--|
|           |  | PSLR4LT       |  |
| PSLR4LT-1 | Extra-Long Lighted Hook Pick (Blue-Point®)     | •             |  |
| PSLR4LT-2 | Extra-Long Lighted 90° Hook Pick (Blue-Point®) | •             |  |
| PSLR4LT-3 | Extra-Long Lighted Straight Pick (Blue-Point®) | •             |  |



### Picks and Scribes (Blue-Point®)

| Stock No. | Description                                | Overall Length, inches (assembled to handle) | Set Contains: |       |        |
|-----------|--|--|---------------|-------|--------|
|           |  |  | YA145A        | YA148 | YA149A |
| YA145-1   | Straight Tip Pick (Blue-Point®)            | 7-7/16                                       | •             |       |        |
| YA145-2   | 90° Tip Pick (Blue-Point®)                 | 7-7/16                                       | •             |       |        |
| YA145-3   | Hook Tip Pick (Blue-Point®)                | 7-7/16                                       | •             |       |        |
| YA145-4   | O-Ring Angle Tip Pick (Blue-Point®)        | 7-7/16                                       | •             |       |        |
| YA145A-5  | Black Anodized Handle (Blue-Point®)        | —  | •             |       |        |
| YA148-1   | Scribe—Straight/90° Tip (Blue-Point®)      | 11-5/8                                       |               | •     |        |
| YA148-2   | Scribe—Straight/Hook (Blue-Point®)         | 11-1/2                                       |               | •     |        |
| YA148-3   | Scribe—Straight/Double Bend (Blue-Point®)  | 11-7/8                                       |               | •     |        |
| YA149-1   | Straight Pointed Pick (Blue-Point®)        | 5-1/2  |               |       | •      |
| YA149-2   | Curved with 90° Pointed Pick (Blue-Point®) | 5-1/4  |               |       | •      |
| YA149-3   | 45° with Flat Tip Pick (Blue-Point®)       | 5-1/2  |               |       | •      |
| YA149-4   | 90° Pointed Pick (Blue-Point®)             | 5-1/2  |               |       | •      |
| YA149-5   | Double Ended Short Pick (Blue-Point®)      | 6-3/16                                       |               |       | •      |
| YA149-6   | Double Ended Long Curve Pick (Blue-Point®) | 6-1/2  |               |       | •      |
| YA149-7   | Half Circle Pointed Pick (Blue-Point®)     | 5-3/8  |               |       | •      |
| YA338A    | Straight/Hook Scribe                       | 8-1/8  |               |       |        |
| YA339A    | Straight/90° Scribe                        | 8-1/8  |               |       |        |

#### YA145A 4 pc Pick/Scribe Set (Blue-Point®)

- Compact set with (4) interchangeable threaded blades
- Black anodized aluminum handle with laser-etched Blue-Point® logo for better visibility
- Includes storage pouch
- High-quality carbon steel blades

#### YA148 3 pc Adjustable Pick/Scribe Set (Blue-Point®)

- Thicker 3/16" dia. blades resist bending
- Longer length for greater reach into tight work areas
- Handle can be adjusted along length of blade
- Includes pouch

#### YA149A 7 pc Pick Set (Blue-Point®)

- Includes (5) 5-1/2" single-ended and (2) 7" double-ended probes made of tempered stainless steel
- Stainless steel picks avoid corrosion
- Includes pouch



PPN300

PPBN300

**Prying/Smoothing Tools**

- Intended for spreading/smoothing epoxy, adhesives and silicone uniformly
- Other uses include cleaning small parts, removing/installing O-rings and gaskets, prying dashboard parts and vents and prying apart electronic key fobs to access the battery for replacement. Can be used to pry apart relays, fuses and wiring connectors
- Strong glass-reinforced nylon offers the rare combination of flexibility and strength
- While the non-marring composite material will not scratch soft metals, painted surfaces or other composite material, do not use this tool on glass, laminates or acrylic material
- Note: Not intended for live electrical use.

| Stock No. | Length, inches | Tip Style        | Set Contains: |         |
|-----------|----------------|------------------|---------------|---------|
|           |                |                  | PPN300        | PPBN300 |
| PPN1030   | 7              | Narrow, Dual Tip | •             |         |
| PPN2040   | 7              | Medium, Dual Tip | •             |         |
| PPN4050   | 7              | Wide, Dual Tip   | •             |         |
| PPBN18    | 6-9/16         | 3/16" Angle Tip  |               | •       |
| PPBN32    | 6-9/16         | 5/16" Angle Tip  |               | •       |
| PPBN48    | 6-9/16         | 1/2" Angle Tip   |               | •       |

Set includes vinyl pouch.



MPBS12A

MPBS24A

MPBS36A

**Striking Prybars/Straight Edge**

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- High-leverage design with smooth radius head provides maximum leverage while lifting and pulling back
- Straight tip design for maximum leverage in tight spaces
- Durable ergonomic handle features a tapered design for comfortable grip and withstands extreme work environments
- Blade extends through the handle and contacts the metal end cap to provide a continuous, solid striking force
- Flared end of handle offers protection from off-center handle strikes

| Stock No. | Square Shank, inches | Tip Width, inches | Length, inches | Set Contains: |
|-----------|----------------------|-------------------|----------------|---------------|
| MPBS12A   | 3/8                  | 5/8               | 12             | •             |
| MPBS24A   | 7/16                 | 13/16             | 24             | •             |
| MPBS36A   | 5/8                  | 1-1/8             | 36-5/8         | •             |



SPBH30R



SPBH48R



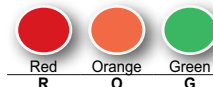
SPBH54R

**Striking Crown Handle Prybars**

- Durable crown handle offers protection from off-center hammer strikes
- Handle is 10-3/8" long for a comfortable, secure grip (long handle ensures that two hands can fit for high-leverage applications)
- Cylindrical design with taper allows user to find a comfortable grip regardless of hand size
- Made from the same durable, easy-to-clean acetate material used on Snap-on® SPBS series prybars
- Handle resists extreme temperatures
- Striking cap features three times the surface area versus competitive prybars (reduces chance of handle damage/off-center strikes for better performance and safety)
- 3/4" square bar manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- High-leverage flared tip (1-1/8") with precision-ground edge
- Blade is permanently stamped with product information and has an industrial finish (protects against corrosion)

| Stock No. | Bar Stock Size, inches | Tip Width, inches | Length with Handle, inches |
|-----------|------------------------|-------------------|----------------------------|
| SPBH30R   | 3/4                    | 1-1/8             | 30                         |
| SPBH48R   | 3/4                    | 1-1/8             | 48                         |
| SPBH54R   | 3/4                    | 1-1/8             | 54                         |

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Read safety precautions on pages W1 to W4

## PRYBARS



SPBS704A

Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Striking Prybars

- Ergonomic shape and contour handle matched to blade length for optimum leverage
- Blade extends through handle and makes contact with end cap to provide solid striking force
- Metal end cap allows hammer striking while reducing chance of damage to handle
- High-leverage design with smooth radius head provides maximum leverage when lifting and pulling back
- Blade manufactured from special alloy steel, precision forged and heat treated for strength and durability
- Industrial finish to protect against corrosion

| Stock No. | Square Shank, inches | Tip Width, inches | Length, inches | Set Contains: |
|-----------|----------------------|-------------------|----------------|---------------|
| SPBS8A*   | 1/4                  | 7/16              | 8              | •             |
| SPBS12A*  | 3/8                  | 5/8               | 12             | •             |
| SPBS18A*  | 7/16                 | 23/32             | 18             | •             |
| SPBS24A*  | 7/16                 | 13/16             | 24             | •             |
| SPBS36A*  | 5/8                  | 1-1/8             | 36-5/8         |               |
| SPBS42A*  | 5/8                  | 1-1/8             | 42-1/4         |               |

SPBS704A\*

Set Contains:



PBF415

### Fiberglass Prybar

#### PBF415 Fiberglass Prybar (Blue-Point®)

- Drop-forged rust-resistant, hardened steel wedge end is chemically bonded to fiberglass handle
- 50,000 strands of fiberglass are sleeved by a polypropylene jacket for comfort and variable hand placement during use
- About one-half the weight of a steel prybar of the same length and less flexible than a steel prybar for greater leverage
- Polypropylene sleeve is resistant to heat and cold for greater comfort in all temperatures

| Stock No. | Description                     | Length, inches |
|-----------|---------------------------------|----------------|
| PBF415    | Fiberglass Prybar (Blue-Point®) | 41-1/2         |

### Demolition Chisels/Striking Crown Handle

- Exclusive crown handle offers protection from off center hammer strikes
- Handle provides a comfortable secure grip in a variety of environments
- Engineered composite handle offers excellent temperature resistance and bar retention
- Exclusive crown handle offers protection from off-center hammer strikes
- Handle provides a comfortable, secure grip in a wide variety of environments
- Engineered high-impact nylon material offers excellent cold and hot weather resistance and bar retention
- Large striker cap provides a large impact surface—important when using large hammers or mauls
- Tough steel alloy is machined and differentially heat treated for optimum performance
- Good balance and length; 18" provides optimal clearance without becoming too long or heavy
- High impact nylon offers much better temperature resistance than acetate
- Offers an alternative to air hammers; no need to drag bulky air hoses. Ideal for quick work regardless of location
- Chisel is roll-stamped with part number
- Chisel has a double edge bevel with 1-1/8" flare tip



SPDC18R

Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

| Stock No. | Hex Shank, inches | Tip Width, inches | Length, inches |
|-----------|-------------------|-------------------|----------------|
| SPDC18R   | 3/4               | 1-1/8 Double Edge | 18             |

**Prybars**

- Snap-on® prybars feature a patented ergonomic shape and contour handle matched to the blade length for optimum leverage

**MPBS1140AO 40° Brake Tool Prybar**

- Strong 3/8" square alloy steel bar with straight tip
- 11" total length with 40° offset ensures access into tight wheel wells
- Durable, ergonomic handle features a tapered design for comfortable grip and withstands extreme work environments
- Ideal for general prybar applications



**MPBS1140AO**

| Stock No.  | Handle Length, inches | Square Shank, inches | Tip Width, inches | Tip Type |
|------------|-----------------------|----------------------|-------------------|----------|
| MPBS1140AO | 5-1/2                 | 3/8                  | 3/8               | Straight |

**Multi-Position Prybars**

- Each prybar features 17 incremental angles of 15° to provide great flexibility
- High-leverage design with smooth radius head provides maximum leverage when lifting
- Manufactured from special alloy steel, precision forged and heat treated for strength and durability
- Industrial finish helps protect against corrosion

Set Contains:  
**PBMP703A**



| Stock No. | Length, inches | Tip Width, inches |   |
|-----------|----------------|-------------------|---|
| PBMP8A    | 8              | 1/2               | • |
| PBMP12A   | 12             | 5/8               | • |
| PBMP16A   | 16             | 5/8               | • |
| PBMP24A   | 24             | 1                 |   |
| PBMP36A   | 36             | 1                 |   |

**Non-Marring Prybars**

- Made from tough reinforced nylon
- Ideal for removing clips, fasteners, molding or gaskets from interior/exterior applications
- Will not damage delicate surfaces unlike metal removal tools
- Lightweight and resistant to most automotive fluids
- Block end allows use with hammer

Set Contains:  
**PBN500**



| Stock No. | Length, inches | Tip Width, inches | Tip Style    |   |
|-----------|----------------|-------------------|--------------|---|
| PBN1      | 6-3/4          | 5/8               | Narrow Wedge | • |
| PBN2      | 6-3/4          | 15/16             | Wide Wedge   | • |
| PBN3      | 6-3/4          | 7/8               | Narrow Fork  | • |
| PBN5      | 6-3/4          | 1-3/16            | Wide Fork    | • |
| PBN7      | 6-3/4          | 1-3/8             | Flat Fork    | • |
| PBN10     | 6-3/4          | 5/8               | 90° L        |   |
| PBN15     | 6-3/4          | 1-1/4             | 90°          |   |

**Prying/Fabrication Tools**

**PBFT10 Metal Pry/Fabrication Tool (Blue-Point®)**

- Slim radius taper end for optimum blend of strength and access
- Unique design fits in tight gaps and can be used in tandem with separate mated parts
- Made from strong 4140 alloy steel
- Includes holes for tethering



| Stock No. | Overall Length, inches | Tip Width, inches | Weight, lb (kg) | Base Width, inches | Length of Radius (working end), inches |
|-----------|------------------------|-------------------|-----------------|--------------------|--|
| PBFT10    | 7                      | 1/2               | .23 (.1)        | 1                  | 1-3/4                                  |



• Read safety precautions on pages W1 to W4

## PRYBARS



PBHG48



PBHC48



NPB124B



PBS704



3260B



7030A



1412A



BLPPB704

### Utility Bars

#### UB222PK Miniature 5-3/8" Utility Prybar Set (10 pk) (Blue-Point®)

- 5-3/8" length
- Pack of 10



UB222PK

### Heavy-Duty Prybars

- Prybars feature a rubber grip that eliminates contact with rust and damaged surfaces and protects the bar from damage during transit
- Grip offers a nonslip surface that provides a secure gripping surface/leverage, when hands are wet, sweaty or oil covered

| Stock No. | Tip Style                                | Weight, lb | Radius Curves, inches | Length, inches | Diameter, Inches |
|-----------|--|------------|-----------------------|----------------|------------------|
| PBHG48    | 1-1/2" Offset Chisel, 2-1/4" Offset Claw | 9.5        | 5-1/8                 | 48             | 1" Hex           |
| PBHC48    | 1-1/8" Straight Chisel, 2" Offset Chisel | 11.25      | —                     | 48             | 1" Hex           |
| PBHC60    | 1-1/8" Straight Chisel, 2" Offset Chisel | 14.25      | —                     | 60             | 1" Hex           |

PBHC1 48" Replaceable Rubber Grip.

### Wrecking Bars

- Slotted claw on "gooseneck" end and a chisel configuration on opposite end

| Stock No. | Stock, inches | Length, inches |
|-----------|---------------|----------------|
| NPB124B   | 3/4           | 24             |

### Prybars

- Snap-on® prybars feature a patented ergonomic shape and contour handle matched to the blade length for optimum leverage

Set Contains: PBS704

| Stock No. | Stock, inches | Length, inches | Set Contains: |
|-----------|---------------|----------------|---------------|
| 1250      | 7/16          | 12             | •             |
| 1650      | 9/16          | 16             | •             |
| 2050      | 11/16         | 20             | •             |
| 650       | 5/16          | 6              | •             |

### Slate Bar

| Stock No. | Stock, inches | Edge, inches | Length, inches |
|-----------|---------------|--------------|----------------|
| 3260B     | 1             | 1/2          | 60             |

### Close Quarters Bars

- Powerful leverage where space is at a premium
- Ideal for aligning molds

| Stock No. | Stock, inches | Tip Width, inches | Length, inches |
|-----------|---------------|-------------------|----------------|
| 7030A     | 3/8           | 7/16              | 9              |
| 7031A     | 1/2           | 9/16              | 16             |
| 7032      | 5/8           | 3/4               | 18             |

### Pinch Bars

- Pinch bars have a tapered point on one end and a chisel-type edge on the other

| Stock No. | Stock, inches | Edge, inches | Length, inches |
|-----------|---------------|--------------|----------------|
| 1412A     | 1/2           | 5/8          | 14             |
| 1658C     | 1/2           | 5/8          | 16             |
| 2420A     | 3/4           | 15/16        | 20             |
| 2430C     | 3/4           | 5/8          | 30             |
| 2438C     | 3/4           | 7/8          | 38             |
| 2842C     | 7/8           | 1            | 42             |

#### BLPPB704 4 pc Pinch Bar Prybar Set (14–20") (Blue-Point®)

- Includes 1412A (14") and 2420A (20") Pinch Bars, 7031A Close-Quarters Bar (16") plus BPPC1878 Flat Chisel (18")

### Die Setter Bars

- Designed for separating, scraping or prying



7035

| Stock No. | Stock, inches | Tip Width, inches | Length, inches |
|-----------|---------------|-------------------|----------------|
| 7035      | 5/8           | 7/16              | 18             |
| 7037      | 3/4           | 9/16              | 30             |



# PLIERS

THE KEY TO MAKING BETTER PLIERS AND CUTTERS IS PRECISE MANUFACTURING AND USING THE BEST POSSIBLE MATERIALS. THAT'S WHY WE USE SPECIAL ALLOY STEEL AND AN EXCLUSIVE COLD-FORGED PROCESS TO ADD STRENGTH AND LONGEVITY TO OUR PLIERS. WE ALSO EMPLOY PROPRIETARY DESIGN TOUCHES LIKE JOINTS THAT ARE POSITIONED CLOSE TO THE CUTTING EDGE, MAKING IT FAR EASIER TO CUT HEAVY WIRE WHILE REDUCING USER FATIGUE.

---

## PLIERS THAT ALWAYS COME THROUGH IN A PINCH.

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Our Talon Grip™ makes the job easier, with diamond serrated jaws for added grip and pulling power. Ramped tips and a longer contoured handle for better accessibility. Plus rounded jaw edges to minimize nicking wires. Our VectorEdge blade technology provides the added advantages of parallel blades, more leverage and precise cutting edge alignment. And the cutting edges stay aligned and sharp year after year, even after thousands of cuts on everything from wires and cable ties to spring steel.

# PLIERS/CUTTERS SETS



102LHCP



PL305ACF



PL306ACF



PL307ACF



PL330ACF



PLR300



PL400B



PL803A



PL500GS

## Pliers and Cutters Sets

| Stock No. | Description   | Set Contains: |           |           |           |           |         |         |        |          |   |
|-----------|---|---------------|-----------|-----------|-----------|-----------|---------|---------|--------|----------|---|
|           |   | 102LHCP       | PL305ACF* | PL306ACF* | PL307ACF* | PL330ACF* | PLR300* | PL400B* | PL803A | PL500GS* |   |
| 415CP     | Long Reach 35° Bent Nose Needle Nose Pliers           | •             |           |           |           |           |         |         |        |          |   |
| 915CP     | Long Reach Needle Nose Pliers                         | •             |           |           |           |           |         |         |        |          |   |
| 44ACF     | 4" Talon Grip™ Combination Slip-Joint Pliers          |               | •         |           |           |           |         |         |        |          |   |
| 95ACF     | 6" Needle Nose Pliers                                 |               | •         |           |           |           |         |         |        |          |   |
| 84CF      | 4" VectorEdge Diagonal Cutters                        |               |           |           |           |           |         |         |        | •        |   |
| 85ACF     | 5" VectorEdge Diagonal Cutters                        |               | •         |           |           |           |         |         |        |          |   |
| 786CF*    | 6" Diagonal Flush-Cut Pliers                          |               |           |           |           |           |         |         |        |          |   |
| 46ACF     | 6" Talon Grip™ Combination Slip-Joint Pliers          |               |           |           | •         |           |         |         |        |          |   |
| 96ACF     | 7" Needle Nose Pliers                                 |               |           |           | •         |           |         |         |        | •        |   |
| 86ACF     | 6" VectorEdge Diagonal Cutter                         |               |           |           | •         |           |         | •       |        | •        | • |
| 47ACF     | 8" Talon Grip™ Combination Slip-Joint Pliers          |               |           |           |           | •         |         |         | •      |          | • |
| 97ACF     | 8" Talon Grip™ Needle Nose Pliers                     |               |           |           |           | •         |         |         | •      |          | • |
| 87ACF     | 7" VectorEdge Diagonal Cutter                         |               |           |           |           | •         |         |         |        | •        |   |
| 49ACF     | 9" Talon Grip™ Combination Slip-Joint Pliers          |               |           |           |           |           | •       |         |        |          |   |
| 911ACF    | 11" Needle Nose Pliers                                |               |           |           |           |           | •       |         |        |          |   |
| 312CF     | 11" VectorEdge Heavy-Duty Diagonal Cutter             |               |           |           |           |           | •       |         |        |          |   |
| 57AHLF    | Lineman's Pliers                                      |               |           |           |           |           |         | •       |        |          | • |
| 91ACF     | Adjustable Joint Interlocking Channel Pliers (9-1/4") |               |           |           |           |           |         |         | •      |          |   |
| PWCS7ACF  | 7" Wire Stripper/Cutter/Crimper                       |               |           |           |           |           |         |         |        |          | • |

See product details on following pages.

Sets include storage tray.

### Colors Available



\* Red O Green

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





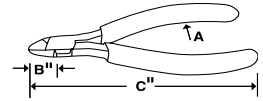
84CF



85ACF



86ACF



86EP



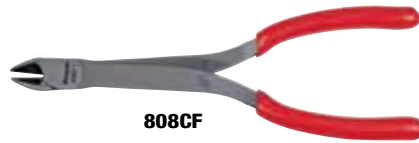
87ACF



786CF



312CF



808CF



388ACF

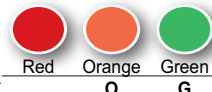
## Diagonal Cutters (Natural)

- Quality forged steel ensures that tools will provide years of service
- Differential heat treatment produces the strength and toughness in desired areas to withstand repeated tough cutting jobs
- Handles are designed for comfort and to deliver the leverage needed to tackle demanding jobs
- DURABLE: Natural steel finish with clear coating; cold-forged special alloy steel; strength and durability, protects against corrosion, provides years of reliable performance
- LEVERAGE: Long contoured handle; joint positioned closer to the cutting edge; comfortable with increased leverage
- COMFORT: Cushioned plastisol handles; comfort and control to reduce fatigue

VectorEdge

| Stock No. | Description                           | Handle Style (A) | Jaw Length, inches (B) | Length, inches (C) |   |
|-----------|---------------------------------------|------------------|------------------------|--------------------|---|
| 84CF *    | 4" Diagonal Cutters                   | Bowed            | 3/8                    | 4-3/4              | • |
| 85ACF *   | 5" Diagonal Cutters                   | Bowed            | 9/16                   | 5                  | • |
| 86ACF *   | 6" Diagonal Cutter                    | Bowed            | 3/4                    | 6-5/16             | • |
| 86EP      | Pistol Grip Diagonal Cutters          | Pistol           | 3/4                    | 6-5/16             |   |
| 87ACF *   | 7" Diagonal Cutter                    | Bowed            | 13/16                  | 7-3/8              | • |
| 786CF *   | 6" Diagonal Flush-Cut Pliers          | Bowed            | 3/4                    | 6-5/18             |   |
| 312CF *   | Heavy-Duty Diagonal Cutter            | Long Handle      | 0.80                   | 11                 | • |
| 808CF *   | 7" Long Mini Diagonal Cutter          | Bowed            | 9/16                   | 6-15/16            | • |
| 388ACF *  | 8-5/16" High-Leverage Diagonal Cutter | Bowed            | 1-1/16                 | 8-5/16             | • |

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



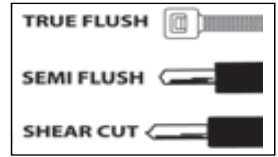
• Plastic-coated handles on these pliers and cutters do not protect against electric shock  
 • Read safety precautions on pages W1 to W4

# CUTTERS

**True Flush:** Blades cut stranded wire ends and zip tie ends flat, allowing protruding ends to be trimmed flush

**Semi-Flush:** Ground blades cut slightly pointed wire ends and can be used where an exact flush cut is not required

**Shear Cut:** Ground blades (on standard cutters) are designed for general cutting with less hand pressure and extended blade life



## Cushion Throat Cutters

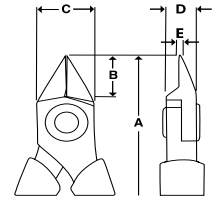
- Urethane insert in jaws captures clipped material, reducing the likelihood of work environment contamination
- Retention of wire clippings enhances worker safety by preventing projectile material from being scattered throughout the worksite
- Handles are designed for comfort and deliver the leverage needed to tackle the most demanding jobs
- Quality forged steel ensures tools will provide years of service
- Fluorescent urethane formula helps reduce the potential of leaving the tool behind—just shine a UV light on the head of the cutter to activate its illuminating effect

| Stock No. | Description                                      | Handle Style | Jaw Length, inches (B) | Overall Length, inches (C) |
|-----------|--|--------------|------------------------|----------------------------|
| 84CFCTA   | Cushion Throat Diagonal Cutter                   | Bowed        | 3/8                    | 4-3/4                      |
| 86ACFCT   | Cushion Throat Diagonal Cutter                   | Bowed        | 3/4                    | 6-5/16                     |
| P87150CT  | Cushion Throat 5" Oval Cutter—True Flush Cut     | Bowed        | 17/32                  | 5-3/16                     |
| 87ACFCT   | 7" VectorEdge Diagonal Cutter                    | Bowed        | 13/16                  | 7-3/8                      |
| 388ACFCT  | 8" High-Leverage Cushion Throat Diagonal Cutters | Bowed        | 1-1/16                 | 8-5/16                     |
| 786CFCT   | 6" Diagonal Flush-Cut Cutter with Cushion Throat | Bowed        | 3/4                    | 6-5/18                     |



## P-Series Cutting Pliers

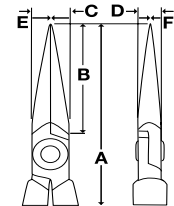
- Diagonal cutting pliers with a tapered head for reaching tight spaces without compromising cutting performance
- Cutting-edge geometry strikes a balance between sturdiness and sharpness, resulting in clean cuts that can last for as long as 200,000 cycles
- Heat-treated frame provides exceptional tool life
- Hot-forged technology aligns grain structure of proprietary alloyed steel to follow the profile of the shanks, giving the pliers extraordinary tenacity and toughness
- Precision grinding in the joint greatly reduces friction, providing smooth operation without lubrication
- Screw joint minimizes friction and maximizes jaw alignment
- Internal torsion spring returns the pliers to the opening position, keeping the tools always ready to work while minimizing hand fatigue
- Staking of the screw threads helps to stop the screw from backing out



Set Contains:  
PLP300A

| Stock No. | Dimension A, mm | Dimension B, mm | Dimension C, mm | Dimension D, mm | Dimension E, mm | Wire Diameter, mm | Cut Type   | Head Style |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------|------------|
| P86145A   | 109             | 10.6            | 12.5            | 13.1            | 13.2            | 0.30–1.25         | Semi-Flush | End        |
| P88145A   | 115             | 11.7            | 12.5            | 6               | 0.8             | 0.30–1.60         | Semi-Flush | Tapered    |
| P88145RA  | 115             | 11.7            | 12.5            | 6               | 0.8             | 0.30–1.25         | Semi-Flush | T&R        |
| P88150RA  | 130             | 13.8            | 15.8            | 8               | 1.1             | 0.40–1.60         | Semi-Flush | T&R        |
| P87150A†  | 130             | 13.8            | 15.8            | 8               | 1.1             | .40–1.60          | True Flush | Oval       |

†Use on plastic and zip ties



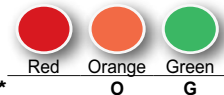
**P-Series Precision Pliers**

- Hot-forged technology aligns the grain structure of proprietary alloyed steel to follow the profile of the shanks, giving the pliers extraordinary tenacity and toughness
- Heat-treated frame provides exceptional tool life
- Precision grinding in the joint greatly reduces friction, providing smooth operation without lubrication
- Screw joint minimizes friction and maximizes jaw alignment
- Internal torsion spring returns the pliers to the opening position, keeping the tools always ready to work while minimizing hand fatigue
- Staking of the screw threads helps to stop the screw from backing out

| Stock No. | Description                    | A, Length, inches (mm) | B, Jaw Flat Length, inches (mm) | C, Head Width, inches (mm) | D, Head Thickness, inches (mm) | E, Tip Width, inches (mm) | Dimension F, Tip Thickness, inches (mm) | Jaw Style | Head Style |
|-----------|--------------------------------|------------------------|---------------------------------|----------------------------|--------------------------------|---------------------------|---|-----------|------------|
| P90050A   | 5" Round Nose Pliers           | 5 (127)                | 1 (26)                          | 31/64 (12.5)               | 19/64 (7.6)                    | 7/64 (2.9)                | 3/64 (1.4)                              | Smooth    | —          |
| P93050A   | 5" Flat Nose Pliers            | 5-5/64 (129)           | 1-3/32 (28)                     | 31/64 (12.5)               | 19/64 (7.6)                    | 5/64 (1.8)                | 5/64 (1.8)                              | Smooth    | —          |
| P91045A*  | 4-1/2" Snipe Nose Pliers       | 4-49/64 (121)          | 25/32 (20)                      | 31/64 (12.5)               | 19/64 (7.6)                    | 5/64 (1.8)                | 5/64 (1.8)                              | Serrated  | Short •    |
| P91055A   | 5-1/2" Snipe Nose Pliers       | 5-21/32 (144)          | 1-45/64 (43)                    | 31/64 (12.5)               | 19/64 (7.6)                    | 5/64 (1.8)                | 5/64 (1.8)                              | Serrated  | Long       |
| P92050A*  | 5" Needle Nose Pliers          | 5-7/64 (130)           | 1-7/32 (31)                     | 31/64 (12.5)               | 19/64 (7.6)                    | 5/64 (1.8)                | 5/64 (1.8)                              | Serrated  | Short      |
| P92055A   | 5-1/2" Needle Nose Pliers      | 5-45/64 (145)          | 1-47/64 (44)                    | 31/64 (12.5)               | 19/64 (7.6)                    | 5/64 (1.8)                | 5/64 (1.8)                              | Serrated  | Long •     |
| P92650A   | 5" 90° Bent Needle Nose Pliers | 4-29/32 (125)          | 1-7/32 (31)                     | 31/64 (12.5)               | 19/64 (7.6)                    | 5/64 (1.8)                | 5/64 (1.8)                              | Serrated  | 90° Bent   |

Sets include storage case.

**Colors Available**

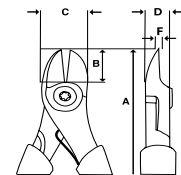


\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**Pliers/Special Application**

| Stock No. | Description               | A     | B          | C             | D           | F          |
|-----------|---------------------------|-------|------------|---------------|-------------|------------|
| EPC160    | Plastic and Cable Cutters | 1/4   | 3/4 (17.7) | 27/32 (21.5)  | 13/32 (9.9) | 1/16 (1.4) |
| HL138ACP* | High-Leverage Combination | 7-7/8 | 1-1/16     | 1-3/16 (30.2) | 1/2 (12.5)  | —          |
| 5CF*      | 5" Ignition Pliers        | 4-3/4 | 1/4        | 7/16 (11.1)   | 1/4 (6.4)   | 5/64 (2.0) |



**EPC160 Plastic and Cable Cutters**

- Manufactured from 1% carbon/chrome ball bearing steel to provide strength without brittleness
- Adjustable screw joint minimizes friction and maximizes cutting edge alignment
- Precision hardened cutting edge provides superior durability
- The unique jaw design makes it ideal for cutting plastic, rubber and vinyl (do not use for cutting metal)

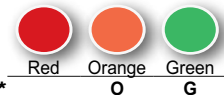
**HL138ACP 7-7/8" Combination Pliers**

- Reduces effort for cutting and gripping by up to 75%
- 1-1/16" jaw opening

**5CF 5" Ignition Pliers**

- Ideal for extremely small work
- Serrated jaws
- Bowed and cushioned plastisol handles are designed for comfort and leverage to reduce fatigue
- 4-3/4" in length

**Colors Available**



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Plastic-coated handles on these pliers and cutters do not protect against electric shock  
 • Read safety precautions on pages W1 to W4

## SPECIAL PURPOSE



497ACF



490CF



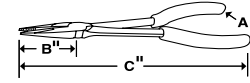
612AEP



912AEP

### Special Purpose Pliers

- Bent Nose—Angled jaws for better access to hard-to-reach areas
- Pistol Grip—Angled handle for access to hard-to-reach areas
- Duck Bill—Specially designed for electronics work



| Stock No. | Description                         | B     | C      |   |
|-----------|-------------------------------------|-------|--------|---|
| 497ACF*   | 7" 90° Angle Jaw Needle Nose Pliers | 1-5/8 | 7-1/4  | • |
| 490CF     | 9-1/2" 90° Bent Needle Nose Pliers  | 1-5/8 | 9-5/8  | • |
| 612AEP    | Pistol Grip Needle Nose Pliers      | 1-3/8 | 9-3/4  |   |
| 912AEP    | Pistol Grip Needle Nose Pliers      | 2-1/4 | 10-5/8 |   |

#### Colors Available



\* Red Orange Green

O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



196ACF



94CF



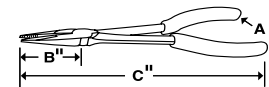
597ACF



496CF

### Needle Nose

- Talon Grip™ diamond-serrated jaws provide precise gripping strength and increased pulling power; jaw tips are perfectly aligned
- Rounded jaw edges minimize nicks to the wire when making loops or bends
- Jaw tips are perfectly aligned and feature machined teeth for precise gripping strength with positive control
- Longer contoured handle with joint location provides higher leverage and increased comfort



Set Contains:

PL-3935CF\*

Talon Grip™

| Stock No. | Description                                       | B       | C       |   |   |
|-----------|---|---------|---------|---|---|
| 196ACF*†  | 8" Long Nose Pliers with Cutter                   | 2-1/4   | 8       |   | • |
| 196ANCF*† | 8" Long Nose Pliers with Cutter and Side Fastener | 2-1/4   | 8       |   | • |
| 597ACF    | 8" Pin Gripping Pliers                            | 3-3/16  | 8-7/8   |   | • |
| 94CF*     | 5" Needle Nose Pliers                             | 1-1/8   | 5-13/32 |   | • |
| 95ACF*    | 6" Needle Nose Pliers                             | 1-13/32 | 6-1/32  |   | • |
| 96ACF*    | 8" Needle Nose Pliers                             | 2-1/8   | 7-29/32 |   | • |
| 97ACF*    | 9" Needle Nose Pliers                             | 3-1/2   | 8-13/16 |   | • |
| 495CF*    | 6" 35° Bent Needle Nose Pliers                    | 1-13/32 | 6-1/32  | • | • |
| 496CF*    | 7" 35° Bent Needle Nose Pliers                    | 2       | 7-13/16 | • | • |
| 9735CF*   | 8" 35° Bent Needle Nose Pliers                    | 3-11/32 | 8-5/8   | • | • |

† Rated to cut .049" dia. music wire

#### Colors Available

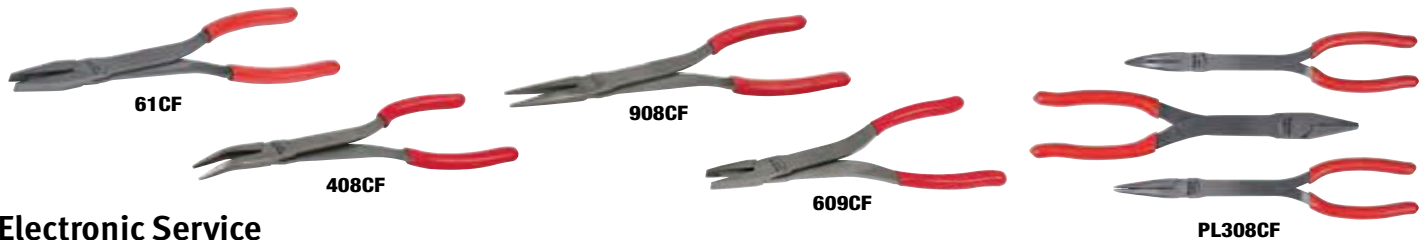


\* Red Orange Green

O G

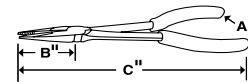
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## NEEDLE NOSE/LONG

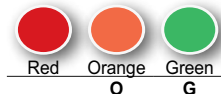


### Electronic Service

- Talon Grip™ diamond serrated jaws provide a better grip, supplying up to 57% increase in pulling power
- Compact needle nose jaws and longer reach provide increased access in tight working conditions
- The 35° bent nose design, coupled with more compact jaws and longer reach, provide increased access in tight and awkward working conditions (408CF)
- Ideal for holding and twisting safety wire in aviation, marine and FOD applications (609CF)
- Cushioned plastic handles are designed for comfort and leverage to reduce fatigue
- Manufactured from special high-alloy steel for durability and strength



#### Colors Available



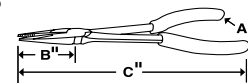
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

| Stock No. | Description                      | B       | C       | Set Contains: |   |
|-----------|----------------------------------|---------|---------|---------------|---|
| 61CF      | 8" Duck Bill Pliers              | 1-29/64 | 8-3/8   |               | • |
| 408CF     | 9" Stork Bent Needle Nose Pliers | 1-5/8   | 8-1/2   | •             | • |
| 908CF     | 9" Stork Needle Nose Pliers      | 1-45/64 | 8-5/8   | •             | • |
| 609CF     | 9" Stork Duck Bill Pliers        | 1-3/8   | 9-21/64 | •             | • |

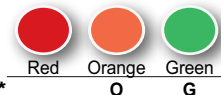


### Long Reach

- Long, slim jaws and flush riveted joints for increased reach into recessed areas
- Ideal for electric and electronic work, holding pins or small components



#### Colors Available

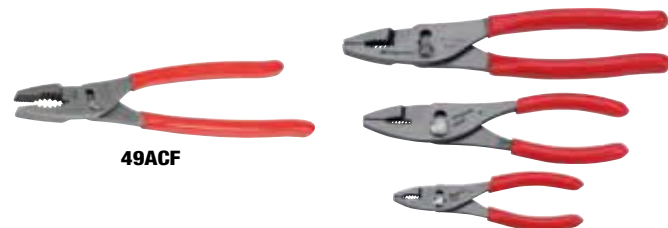


ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

| Stock No. | Description                                | B      | C      | Set Contains: |   |
|-----------|--|--------|--------|---------------|---|
| 415CP     | 15" Long Reach 35° Bent Needle Nose Pliers | 2-7/8  | 14-3/8 |               |   |
| 411CF     | 11" Long Reach 35° Bent Needle Nose Pliers | 3      | 10-7/8 | •             | • |
| 911ACF*   | 11" Needle Nose Pliers                     | 3-3/16 | 11     | •             | • |
| 915CP     | 15" Long Reach Needle Nose Pliers          | 3-3/16 | 14-1/2 |               |   |

### Combination

- Talon Grip™: Diamond-serrated jaws mean better grip and up to a 57% increase in pulling power
- Precise: Smooth, clean cuts with less hand pressure; shear cutter and rounded jaw edges
- Durable: Cold-forged, natural steel finish with clear coating; special alloy steel means strength, durability and protection against corrosion
- Comfort: Vinyl grips provide comfort and control
- Accessibility: Patented three-position joint with adjustable jaw width means more opening options and a wider spread
- Leverage: Long, contoured handle provides comfort and increased leverage



#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

| Stock No. | Description            | Length, inches (A) | Jaw Thickness, inches (B) | Talon Grip | Set Contains: |  |
|-----------|------------------------|--------------------|---------------------------|------------|---------------|--|
| 44ACF     | Combination Slip Joint | 4-1/2              | 15/64                     | •          | •             |  |
| 46ACF†    | Combination Slip Joint | 6-7/16             | 23/64                     | •          | •             |  |
| 47ACF†    | Combination Slip Joint | 8-1/4              | 7/16                      | •          | •             |  |
| 49ACF†    | Combination Slip Joint | 9-1/4              | 1/2                       | •          | •             |  |

† Third position gives a wider jaw spread for pieces that are difficult to grasp



• Plastic-coated handles on these pliers and cutters do not protect against electric shock  
• Read safety precautions on pages W1 to W4

## LINEMAN'S/HEAVY-DUTY



57AHLP



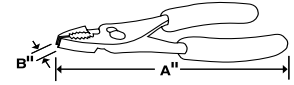
59AHLP



137ACF

### Lineman's/Heavy-Duty

- Machined cutter heads for perfectly matched blades
- Induction-hardened head for extra strength and durability
- Gripper teeth behind the head can be a useful crushing area



| Stock No. | Description                                 | A      | B     |
|-----------|---|--------|-------|
| 57AHLP*   | 7" Lineman's Pliers                         | 7-3/8  | 1/2   |
| 59AHLP    | 9" Lineman's Pliers                         | 9-1/4  | 1/2   |
| 137ACF*   | 8" Heavy-Duty Combination Slip Joint Pliers | 8-3/16 | 27/64 |

#### Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## ADJUSTABLE JOINT



CHN410

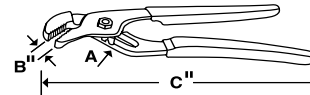


AWP404



### Tongue and Groove

- Special tongue and groove design that assures nonslip jaw action
- Unique fastener system inhibits side-to-side jaw wobble for added strength and smoother operation



Set Contains:  
AWP404

| Stock No. | Description                                       | A | B       | C      |   |
|-----------|---|---|---------|--------|---|
| AWP45     | Adjustable Joint Pliers                           | 3 | 1/2     | 4-3/4  | • |
| AWP65     | Adjustable Joint Pliers                           | 5 | 7/8     | 7      | • |
| AWP120    | Adjustable Joint Pliers                           | 7 | 2-3/16  | 12-3/4 | • |
| AWP160    | Adjustable Joint Tongue and Groove Pliers         | 8 | 3-13/16 | 16-3/4 | • |
| CHN410    | Parrot Jaws Adjustable Joint Pliers (Blue-Point®) | 5 | 1-1/2   | 10-1/8 |   |

Set includes storage tray

### Standard/Adjustable Joint

- Specially hardened jaw teeth provide long life and a solid grip on work objects
- Vinyl covered handles for a secure, comfortable grip



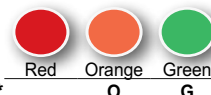
91ACP



CHN480

| Stock No. | Description  | A  | B     | C     |
|-----------|--|----|-------|-------|
| 91ACP*    | Adjustable Joint Interlocking Channel Pliers (9-1/4")      | 5  | 1-3/8 | 9-1/4 |
| CHN480    | Interlocking Channel Adjustable Joint Pliers (Blue-Point®) | 11 | 5-1/2 | 20    |

#### Colors Available



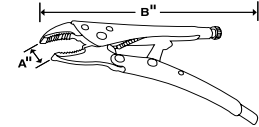
\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

# LOCKING PLIERS

PLIERS



A "V" groove houses round objects, preventing lateral movement.



Set Contains: LP404

## LP Series

- Spring-loaded release lever allows quick "no-pinch" release
- Locking nut secures jaw opening for repeat jobs
- Larger jaw capacity to hold larger objects
- Jaws feature a greater surface area and broader teeth for more secure gripping

| Stock No. | Description                           | Jaw Capacity, inches (A) | Length, inches (B) |   |
|-----------|---------------------------------------|--------------------------|--------------------|---|
| LP5SLIM   | Locking Pliers                        | 1-5/32                   | 5                  |   |
| LP7SLIM   | Locking Pliers                        | 1-5/8                    | 7                  |   |
| LP5WR     | Curved Jaw with Cutter Locking Pliers | 1-5/32                   | 5                  | • |
| LP6LN     | Long Nose Locking Pliers              | 2-1/8                    | 6                  | • |
| LP7WR     | Curved Jaw with Cutter Locking Pliers | 1-5/8                    | 7                  | • |
| LP10WR    | Curved Jaw with Cutter Locking Pliers | 2-7/16                   | 10                 | • |
| LP7R      | Locking Pliers                        | 1-5/8                    | 7                  |   |
| LP10R     | Locking Pliers                        | 2-7/16                   | 10                 |   |
| LP10LN    | Locking Pliers                        | 2-3/4                    | 10                 |   |
| LP10GRV   | Grooved Jaw Locking Pliers            | 1-5/8                    | 10                 |   |

## LP5SLIM Locking Pliers

- Used for removal of socket-style sway bar links
- Thinner jaws fit between the stabilizer bar and stabilizer link to allow a socket to be used for nut removal
- LP7SLIM Applications: 2002-2004 Dodge® Caravans, Chrysler® Town and Country® and any other vehicles with non-greaseable sway bar links

## LP10GRV Grooved Jaw Locking Pliers

- Longitudinal V-groove section provides three points of contact preventing lateral movement while working
- Specially tapered groove means the larger the work piece, the larger the groove section that holds it
- Convex tooth section of the mobile jaw pushes flat work pieces against the large, flat fixed jaw for tighter clamping
- Recessed area of the mobile jaw allows angled objects to be held and clears small obstacles
- Serrated milled teeth provide a positive grip on different shaped objects

## Locking Pliers/Standard Grip (Blue-Point®)

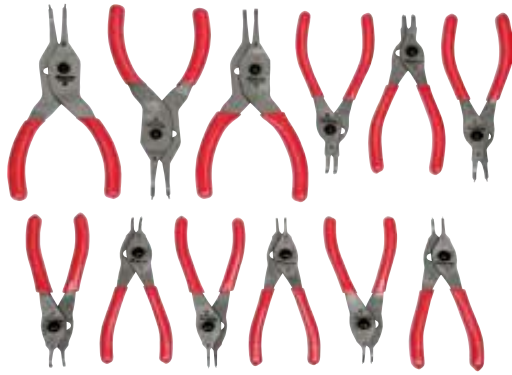
- Made from high grade heat-treated steel alloys, the hardened precision ground jaws "lock" onto work pieces that are difficult to hold
- Adjusting screws ensure fine adjustments for precise gripping
- Soft grip series improves comfort while resisting damage from oil and grease

| Stock No. | Description | Grip Style | Jaw Capacity, inches (A) | Length, inches (B) |   |   |
|-----------|-------------|------------|--------------------------|--------------------|---|---|
| BLP5      | Curved Jaw  | Standard   | 1.125                    | 5                  | • |   |
| BLP7      | Curved Jaw  | Standard   | 1.625                    | 7                  | • |   |
| BLP10     | Curved Jaw  | Standard   | 1.875                    | 10                 | • |   |
| BLP6LN    | Long Nose   | Standard   | 2.25                     | 6                  | • |   |
| BSGLP5    | Curved Jaw  | Soft       | 1.125                    | 5                  | • | • |
| BSGLP7    | Curved Jaw  | Soft       | 1.625                    | 7                  | • | • |
| BSGLP10   | Curved Jaw  | Soft       | 1.875                    | 10                 | • | • |
| BSGLP6LN  | Long Nose   | Soft       | 2.25                     | 6                  | • | • |

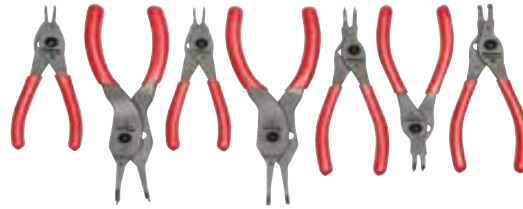


• Plastic-coated handles on these pliers and cutters do not protect against electric shock  
 • Read safety precautions on pages W1 to W4

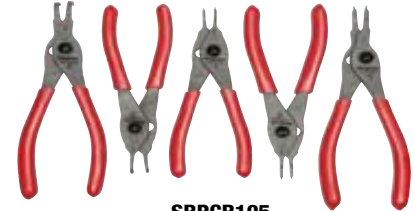
# RETAINING RING



SRPCR112



SRPCR107



SRPCR105

## Snap Ring Pliers

- Convert from internal to external rings with push-button quick-release design; up to 80% faster than the previous SRPC design
- Manufactured from special cold-forged steel with a higher alloy content for a higher degree of durability and strength
- Longer 45° and 90° jaws make it easier to access hard-to-reach retaining rings
- Natural steel finish has a tough, clear coating to help protect against corrosion
- Wide cushion grip provides more comfort and control

| Stock No. | Style       | Dimension A, Length, inches | Dimension B, Ring Size Range, inches | Dimension C, Jaw Angle | Dimension D, Tip Diameter, inches | Set Contains: |          |          |             |
|-----------|-------------|-----------------------------|--------------------------------------|------------------------|-----------------------------------|---------------|----------|----------|-------------|
|           |             |                             |                                      |                        |                                   | SRPCR112†     | SRPCR107 | SRPCR105 | SRPCR105ADD |
| SRPCR3800 | Convertible | 6-7/16                      | 1/8-1                                | 0°                     | .038                              | •             | •        | •        |             |
| SRPCR4700 | Convertible | 6-7/16                      | 3/16-1-3/8                           | 0°                     | .047                              | •             | •        | •        |             |
| SRPCR7000 | Convertible | 7-7/16                      | 7/16-2                               | 0°                     | .070                              | •             | •        | •        |             |
| SRPCR9000 | Convertible | 8-3/4                       | 1-1/2-3-1/2                          | 0°                     | .090                              | •             |          |          | •           |
| SRPCR3845 | Convertible | 6-7/16                      | 1/8-1                                | 45°                    | .038                              | •             |          |          | •           |
| SRPCR4745 | Convertible | 6-7/16                      | 3/16-1-3/8                           | 45°                    | .047                              | •             |          |          | •           |
| SRPCR7045 | Convertible | 7-7/16                      | 7/16-2                               | 45°                    | .070                              | •             | •        |          |             |
| SRPCR9045 | Convertible | 8-3/4                       | 1-1/2-3-1/2                          | 45°                    | .090                              | •             | •        |          |             |
| SRPCR3890 | Convertible | 6-7/16                      | 1/8-1                                | 90°                    | .038                              | •             |          | •        | •           |
| SRPCR4790 | Convertible | 6-1/2                       | 3/16-1-3/8                           | 90°                    | .047                              | •             |          | •        | •           |
| SRPCR7090 | Convertible | 7-1/2                       | 7/16-2                               | 90°                    | .070                              | •             | •        | •        |             |
| SRPCR9090 | Convertible | 8-3/4                       | 1-1/2-3-1/2                          | 90°                    | .090                              | •             | •        |          |             |

ASME®/ANSI® B107.500

Sets shown include storage tray.  
†Set comes in foam and a plastic carrying case.

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



PRH406

## Fixed Tip/Convertible

Unique dial feature eliminates the need to take apart the pliers when changing from internal to external.

| Stock No. | Length, inches | Ring Size Range, inches | Jaw Angle | Tip Diameter, inches | Set Contains: |
|-----------|----------------|-------------------------|-----------|----------------------|---------------|
|           |                |                         |           |                      | PRH406        |
| PRH12     | 5-3/4          | 1/8-1                   | 18°       | .038                 | •             |
| PRH32     | 6              | 5/16-1-3/8              | 18°       | .047                 | •             |
| PRH34     | 7-1/2          | 7/16-2                  | 18°       | .070                 | •             |
| PRH129    | 5-3/4          | 1/8-1                   | 90°       | .038                 | •             |
| PRH329    | 5-7/8          | 5/16-1-3/8              | 90°       | .047                 | •             |
| PRH349    | 7-1/2          | 7/16-2                  | 90°       | .070                 | •             |

ASME®/ANSI® B107.500

Set includes storage tray.



# RETAINING RING (Blue-Point®)

PLIERS



PR36



PRH502A



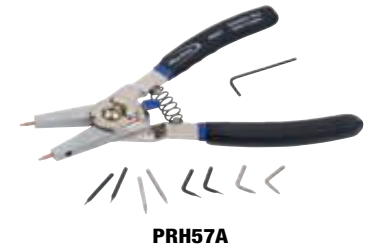
PRH503



PR50A



PR215



PRH57A



PR7A



PR54



PR8A

## Interchangeable Tip

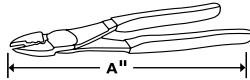
| Internal | External | Length, inches | Ring Size Range, inches                 | Tip Kit Included    | Tip Sizes Included, inches (degree)                                   | Optional Kits  | Optional Tip Sizes                       | Set Contains: |          |         |       |        |
|----------|----------|----------------|---|---------------------|---|----------------|--|---------------|----------|---------|-------|--------|
|          |          |                |   |                     |   |                |  | PR36          | PRH502A† | PRH503† | PR50A | PR215† |
| PR37     | —        | 6-1/4          | 3/8-2                                   | PR5 (For PR36 only) | 2 pair each in PR36 set: .047 (0°), .070 (0°), .047 (45°), .038 (90°) | PR5            | .047" 0°, .070" 0°, .047" 45°, .038" 90° | •             |          |         |       |        |
| —        | PR38     | 6-1/4          | 1/4-2                                   | —                   | None  | PR5            | .047" 0°, .070" 0°, .047" 45°, .038" 90° | •             |          |         |       |        |
| PRH56A‡  | —        | 6-3/8          | Internal 1/4-1;<br>External 1/8-1       | PRC56A-1            | 1 pair each: .023 (0°), .036 (0°), .047 (0°), .036 (90°), .047 (90°)  | —              | —  |               | •        | •       |       |        |
| PRC65A ‡ | —        | 10             | Internal 1-13/64-4;<br>External 1-1/3-4 | PRC65A-1            | 1 pair each: .090, .108, .120 (15° and 90°)                           | —              | —  |               |          | •       |       |        |
| PRH57A‡  | —        | 8              | Internal 3/8-2;<br>External 1/4-2       | PRC57A-1            | 1 pair each: .036 (0°), .047 (0°), .070 (0°), .036 (90°), .047 (90°)  | —              | —  |               | •        | •       |       |        |
| PR51     | —        | 9-1/2          | 2-7/16-4                                | PR502               | .108 (15°), .108 (45°)  | PR501-PR508    | .108", 0°                                |               |          |         | •     |        |
| —        | PR52     | 9-1/2          | 1-1/2-3-11/32                           | PR507               | .120 (45°), .120 (90°)  | PR501-PR508    | .120", 0°                                |               |          |         | •     |        |
| PR7A‡    | —        | 15-11/16       | 3-1/16-6-1/4                            | PR7A-1              | .120 (0°)   | PR7A-2         | .120", 45°                               |               |          |         |       | •      |
| —        | PR8A‡    | 15-11/16       | 3-1/16-6-1/4                            | PR7A-1              | .120 (0°)   | PR7A-2         | .120", 45°                               |               |          |         |       | •      |
| PR54     | —        | 29             | 6-1/2-10                                | PR54-1              | .150 (0°)   | PR54-2         | .150", 45°                               |               |          |         |       |        |
| —        | PR53     | 19             | 6-1/2-10                                | PR53-1              | .170 (0°)   | PR53-2, PR53-3 | .170" (45°), .170" (90°)                 |               |          |         |       |        |

PR36 Set includes PR5 Tip Kit. Individual PR37 and PR38 units do not include tips and require PR5 Tip Kit.  
PRH503-1 Replacement Case for PRH503



- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## WIRE TOOLS



Colors Available



Red Orange Green

O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Crimpers

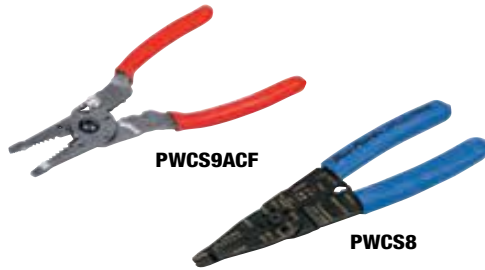
| Stock No. | Description                             | Length, inches (A) | Crimps   |
|-----------|---|--------------------|--|
| 29ACF     | Cold-Forged Wire Terminal Crimping Tool | 9-3/8              | 10, 12, 14, 16, 18, 20, 22 AWG Insulated and Non-Insulated |

#### 29ACF Cold-Forged Wire Terminal Crimping Tool

- Precision-machined joint and cutting edges, a hardened wire cutter with a knife-to-anvil design, never needs sharpening
- Jaws are designed 20% smaller for better access in confined spaces
- Cold-formed heat treated rivet for smooth action and long life
- For insulated and non-insulated terminals and connectors
- Compact crimper doubles terminal pull-off force
- Crimping dies are laser marked for insulated and bare solderless terminals
- Cushion grips for comfort and control
- Crimps 10–22 AWG wire



PWCS7ACF

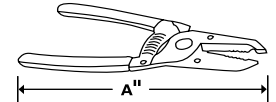


PWCS9ACF

PWCS8



PLWIREKIT



### Wire Strippers/Cutters/Crimpers

| Stock No. | Description  | Dimension A, Length, inches | Strips AWG Sizes  |
|-----------|--|-----------------------------|---|
| PWCS7ACF* | 7" Wire Stripper/Cutter/Crimper                        | 6-3/4                       | 12, 14, 16, 18 20                                       |
| PWCS7ACF* | 7" Wire Stripper/Crimper/Cutter                        | 6-3/4                       | 14–24 AWG   |
| PWCS9ACF* | 9" Wire Stripper/Cutter/Crimper/Bolt Cutter            | 8-3/4                       | AWG20–AWG10 (stranded wire),<br>AWG16–AWG8 (solid wire) |
| PWCS8     | Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®) | 8-1/4                       | 10–22   |

#### PLWIREKIT\* 3 pc Wire Service Pliers Set

- Includes 786CF, 29ACF and PWCS7ACF\*

#### PWCS8 Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)

- Soft grip handles deliver optimal comfort and control during high-strength gripping
- Corrosion-resistant finish
- Laser-hardened cutting edges provide uniform hardness for consistent cutting and edge life

#### PWCS7ACF\* 7" Wire Stripper/Cutter/Crimper

- Unique, smaller wire stripper/crimper that strips 12-, 14-, 16-, 18- and 20-gauge insulated wire
- Crimps insulated and bare wire connectors
- Wire cutter in the jaw and handle
- Ideally suited for work in confined areas, such as under the dash or within electrical service enclosures

#### PWCS9ACF\* 9" Wire Stripper/Cutter/Crimper/Bolt Cutter

- Cold forged from special alloy steel and induction heat treated for superior performance and durability
- Pliers tip for grabbing or pulling wire
- Crimps both insulated and non-insulated terminals
- Includes shears in throat area for general cutting applications
- Cushion grips provide comfort, control and power
- Cuts #6 and #8 soft bolts

#### PWCS7ACF\* 7" Wire Stripper/Crimper/Cutter

- Strong, serrated gripping nose for bending, pulling and shaping of wire or connectors
- Precision-ground stripping holes make removing wire insulation a snap
- Crimps insulated and bare wire connectors
- Wire cutter in two places: in jaws and near the handle
- Compact design for working in confined areas
- Cold-forged steel for better performance/longer life
- Wire crimper placed in front of the pivot point for crimping in tight spaces
- Natural steel finish has a tough, protective clear coating to guard against corrosion
- Cushioned grips provide comfort and control
- For use on 14–24 AWG wire
- Cutting wire and crimping terminals for: speaker wire, wire for navigation and entertainment systems, data wires that connect to computers, body control modules, power windows and door locks, dash gauges and running lights for boats

Colors Available



Red Orange Green

\* O G

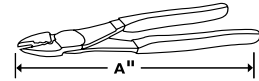
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Crimper (Blue-Point®)

| Stock No. | Description                            | Length, inches (A) | Crimps   |
|-----------|--|--------------------|--|
| PWC47     | Computer/Sensor Terminal Crimping Tool | 8                  | Open barrel and Wether-Pac terminals 14–24 AWG |



PWC47



## Modular Connector

### PWC34 Crimping Tool (Blue-Point®)

- Double-compound action with ratchet control for almost effortless operation
- Used with insulated connectors on 10–22 gauge wire
- Easy, efficient, single-squeeze crimping of modular connectors



PWC34

## Ratcheting Crimpers

### PWC48 Ratcheting Crimper Kit (Blue-Point®)

- Versatile quick-change jaw system allows work on many kinds of terminals
- Exclusive patented quick installation for easy jaw change, no tools required
- Jaws are precision investment casting made of AISI 4140 alloy steel
- Easy adjustment for changing the pressure of the crimp

### PWC48-1 Crimping Jaw Set (Blue-Point®)

- Jaw Set A
- Use on insulated 10–22 connectors

### PWC48-2 Crimping Jaw Set (Blue-Point®)

- Jaw Set B
- Use on non-insulated 8–20 connectors

### PWC48-3 Crimping Jaw Set (Blue-Point®)

- Jaw Set C
- Use on open barrel 10–20 connectors

### PWC48-4 Crimping Jaw Set (Blue-Point®)

- Jaw Set H
- Use on open barrel D-Sub connectors

### PWC48NJ Ratcheting Crimper (Blue-Point®)

- Ratcheting crimper without jaw set



PWC48-4

PWC48NJ



PWC48

## Miscellaneous

### PWC39 Cable Slitter (Blue-Point®)

- Slits and removes insulation on single or multiple conductor cables up to 1.25" OD
- Adjustable blade allows for varying insulation thickness up to .187"
- Lightweight fiberglass-reinforced nylon body
- Extra blade in the handle
- 5-1/4" long



PWC39

### PWC39-1 Replacement Blade (Blue-Point®)

- Replacement blade for PWC39

### PWC52A Connector Pliers (Blue-Point®)

- For gripping round and irregularly shaped objects, such as cannon plugs or plated pipe
- Range is 3/4–2-1/2"
- 9-3/4" long



PWC52A

### PWC52A2L Replaceable Hinge Bolt (Blue-Point®)

- For PWC52A

### PWC52-K Vinyl Jaw Inserts (Blue-Point®)

- For PWC52A (set of two)

### PWC80A Cable Cutter (Blue-Point®)

- For cutting battery cables and other soft metal cables
- Vinyl-covered handles
- 7-1/2" long

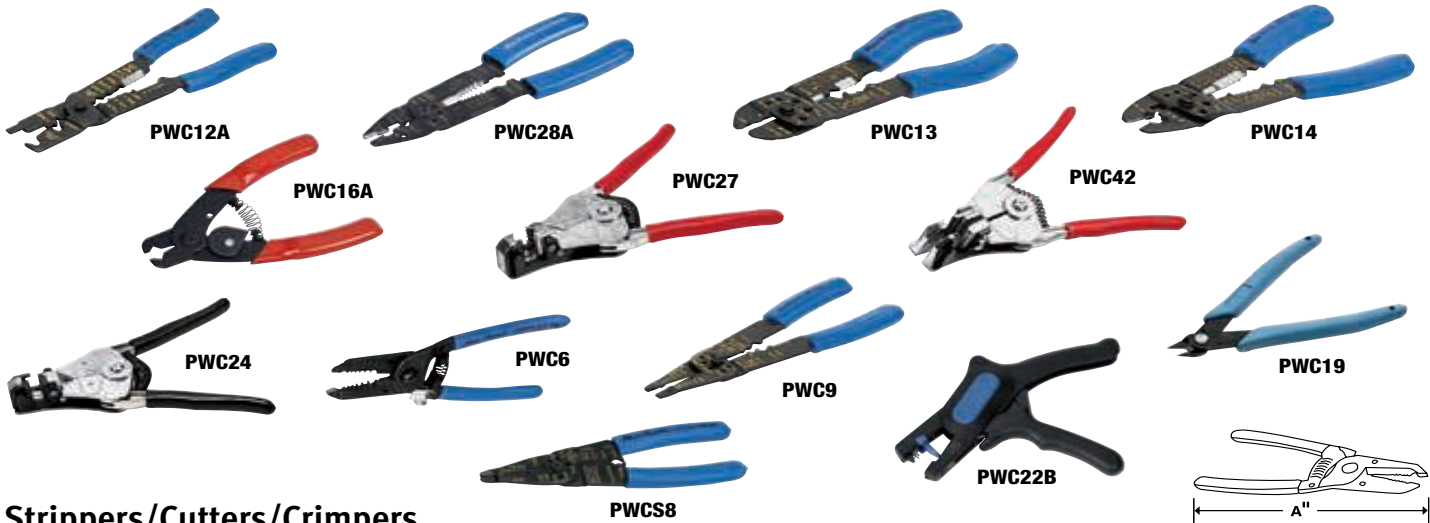


PWC80A



- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

## WIRE TOOLS (Blue-Point®)



### Strippers/Cutters/Crimpers

| Stock No. | Description   | Length, inches (A) | Strips AWG Sizes   | Strips Metric Sizes, mm                                     | Replacement Blades |
|-----------|---|--------------------|--|---|--------------------|
| PWC12A    | Wire Stripper/Cutter/Crimper                              | 9-1/2              | 10, 12, 14, 16, 18   | 10-18 Insulated and Non-Insulated 7-8 mm Ignition Terminals | —                  |
| PWC28A    | Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)    | 8-1/4              | 10, 12, 14, 16, 18, 20, 22 Stranded, 8, 10, 12, 14, 16, 18 Solid | 10-22 Non-Insulated Terminals and Crimp Sleeves             | —                  |
| PWC13     | Wire Stripper/Cutter/Crimper/Bolt Cutter                  | 7-1/2              | 12, 14, 16   | 10-22 Insulated 7-8 mm Ignition Terminals                   | —                  |
| PWC14     | Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)    | 8-3/4              | 10, 12, 14, 16, 18, 20, 22                                       | 10-22 Insulated and Non-Insulated 7-8 mm Ignition Terminals | —                  |
| PWC16A    | Wire Stripper/Cutter (Blue-Point®)                        | 5                  | 10-18  | Adjustable  | —                  |
| PWC27     | Stripmaster® Automatic Wire Stripper (Blue-Point®)        | 6-1/4              | 10, 12, 14, 16, 18, 20, 22                                       | —   | PWC27-7            |
| PWC42     | Stripmaster® Lite Automatic Wire Stripper (Blue-Point®)   | 5-1/2              | 16, 18, 20, 22   | 1.5, 1.0, .5, .42   | PWC42-17           |
| PWC24     | Stripmaster® Custom Automatic Wire Stripper (Blue-Point®) | 6-1/4              | 16, 18, 20, 22, 24, 26   | —   | PWC24-1            |
| PWC6      | Wire Stripper/Cutter (Blue-Point®)                        | 6                  | 10, 12, 14, 16, 18, 20   | 2.6, 2.0, 1.6, 1.3, 1.0, .80                                | —                  |
| PWC8      | Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)    | 8-1/4              | 10-22  | 7-8 mm Ignition Terminals                                   | —                  |
| PWC9      | Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)    | 9-1/2              | 10, 12, 14, 16, 18, 20, 22 (2.6, 2.0, 1.6, 1.3, 1.0, .80 mm)     | 10-22 Insulated and Non-Insulated 7-8 mm Ignition Terminals | —                  |
| PWC19     | Micro Shear Wire Cutter (Blue-Point®)                     | 5-1/8              | Up to 20   | Up to .80   | —                  |
| PWC22B    | Automatic Wire Stripper/Cutter (Blue-Point®)              | 7-1/4              | 12, 14, 16, 18, 20   | .02-6 Stranded and Solid Insulated Wire                     | —                  |

## PLIERS AND CUTTERS (Blue-Point®)



BDGPL800

### Pliers and Cutters/Vinyl Grips (Blue-Point®)

Set Contains:

| Stock No. | Description                 | Jaw Length, inches | Length, inches |   |
|-----------|-----------------------------|--------------------|----------------|---|
| BDGAWP100 | Adjustable Joint Pliers     | 1-3/4              | 10             | • |
| BDG48CP   | Slip Joint Pliers           | 1-27/32            | 8              | • |
| BDG98CP   | Long Needle Nose Pliers     | 3                  | 8              | • |
| BDG9845CP | 45° Bent Needle Nose Pliers | 2-13/16            | 7-3/4          | • |
| BDG57CP   | Lineman's                   | 1-1/4              | 7-1/2          | • |
| BDGEC7    | End Cutter                  | 7/16               | 7              | • |
| BDG86CP   | Diagonal Cutter             | 21/32              | 6-1/2          | • |
| BDG88CP   | Diagonal Cutter             | 15/16              | 8-1/8          | • |



BPL501

### Pliers and Cutters (Blue-Point®)

Set Contains:

| Stock No. | Description             | Jaw Length, inches | Length, inches |   |
|-----------|-------------------------|--------------------|----------------|---|
| B48CP     | Slip Joint Pliers       | 2-3/32             | 8-13/32        | • |
| B58HLP    | Lineman's Pliers        | 1-1/2              | 8-31/32        | • |
| B87CP     | Diagonal Cutters        | 31/32              | 6-19/32        | • |
| B96CP     | Needle Nose Pliers      | 2-1/32             | 6-5/16         | • |
| BAWP100   | Adjustable Joint Pliers | 1-3/8              | 10-5/32        | • |

# PLIERS AND CUTTERS (Blue-Point®)

PLIERS

## Miniature Pliers and Cutters (Blue-Point®)

Set Contains: **BMPL1000**

| Stock No. | Description             | Jaw Length, inches | Length, inches |   |
|-----------|-------------------------|--------------------|----------------|---|
| B45CMP    | Combination Pliers      | 1                  | 4-11/16        | • |
| B65CMP    | Duck Bill Pliers        | 1-5/32             | 4-7/8          | • |
| B75CMP    | Round Nose Pliers       | 1-5/32             | 5              | • |
| B85CMP    | Diagonal Cutter         | 21/32              | 4-11/32        | • |
| B85CTMP   | Thin Diagonal Cutter    | 23/32              | 4-5/8          | • |
| B945CMP   | B945CMP                 | 1                  | 4-11/16        | • |
| B95CLMP   | Long Needle Nose Pliers | 2-1/16             | 5-25/32        | • |
| B95CMP    | Long Nose Pliers        | 1-1/8              | 4-7/8          | • |
| B960CMP   | 60° Bent Nose Pliers    | 15/16              | 4-11/16        | • |
| BMPEC5    | End Cutter              | 5/16               | 4-1/32         | • |

Set includes storage tray.



**BMPL1000**

## Miniature Pliers and Cutters/Vinyl Grips

Set Contains: **BDGMPL845**

| Stock No. | Description                                     | Jaw Length, inches | Length, inches |   |   |
|-----------|---|--------------------|----------------|---|---|
| BDG45CMP  | Miniature Combination Pliers (Blue-Point®)      | 1                  | 4-11/16        | • | • |
| BDG65CMP  | Miniature Duckbill Pliers (Blue-Point®)         | 1-5/32             | 4-7/8          | • |   |
| BDG85CMP  | Miniature Diagonal Cutter (Blue-Point®)         | 21/32              | 4-11/32        | • |   |
| BDG85CTMP | Miniature Thin Diagonal Cutter (Blue-Point®)    | 23/32              | 4-5/8          | • | • |
| BDG945CMP | Miniature 45° Bent Nose Pliers (Blue-Point®)    | 1                  | 4-11/16        | • | • |
| BDG95CLMP | Miniature Long Needle Nose Pliers (Blue-Point®) | 2-1/16             | 5-25/32        | • | • |
| BDG95CMP  | Miniature Long Nose Pliers (Blue-Point®)        | 1-1/8              | 4-7/8          | • |   |
| BDGMPEC5  | Miniature End Cutter (Blue-Point®)              | 5/16               | 4-1/32         | • |   |



**BDGMPL845**



**BDGCPL700**

### BDGMPL845 8 pc Miniature Pliers/Cutters Set (Blue-Point®)

- Includes (8) commonly used mini pliers for precision work in confined spaces
- Laser-hardened cutting edges provide uniform hardness for consistent cutting and edge life
- Nickel-chrome alloy finish resists rust and corrosion
- Laser-hardening process improves nickel-chrome finish by eliminating quenching oil residue from the hardening process
- Pliers feature a leaf-spring design for improved dexterity during precision work
- Cushioned vinyl grips offer comfort during extended use and clean up easily

### BDGCPL700 7 pc Pliers and Cutters Set (Blue-Point®)

- Set includes: BDG48CP 8" Slip Joint Pliers, BDG88CP 8-1/8" Diagonal Cutters and BDG98CP 8" Needle Nose Pliers, plus (3) Miniature Pliers and (1) Cutter to cover a large range of jobs
- Laser-hardened cutting edges provide uniform hardness for consistent cutting and edge life
- Nickel-chrome alloy finish resists rust and corrosion
- BDG98CP Needle Nose Pliers features a fastener-turning jaw and cutter
- Mini Pliers feature a leaf-spring design for improved dexterity during precision work
- Cushioned vinyl grips offer comfort during extended use and clean up easily

## Long Reach Miniature Pliers (Blue-Point®)

Set Contains: **BDGPL400LMP**

| Stock No.  | Description             | Jaw Length, inches | Length, inches |   |
|------------|-------------------------|--------------------|----------------|---|
| BDG86LMP   | Diagonal Cutting Pliers | 3/4                | 5-1/2          | • |
| BDG97LMP   | Needle Nose Pliers      | 2-13/32            | 7              | • |
| BDG9645LMP | 45° Bent Nose Pliers    | 1-7/32             | 6              | • |
| BDG96LMP   | Long Nose Pliers        | 1-5/16             | 6              | • |



**BDGPL400LMP**



- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Read safety precautions on pages W1 to W4

## PLIERS AND CUTTERS (Blue-Point®)



BDGPL300HG

### Extended Reach Hose Grip (Blue-Point®)

Set Contains: **BDGPL300HG**

| Stock No.  | Description             | Jaw Length, inches | Length, inches |   |
|------------|-------------------------|--------------------|----------------|---|
| BDGPL410HG | Small Hose Grip Pliers  | 2-1/4              | 11             | • |
| BDGPL411HG | Medium Hose Grip Pliers | 2-1/4              | 11             | • |
| BDGPL412HG | Large Hose Grip Pliers  | 2                  | 11             | • |



BDGPL300LR

### Long Reach (Blue-Point®)

Set Contains: **BDGPL300LR**

| Stock No.  | Description                 | Jaw Length, inches | Length, inches |   |
|------------|-----------------------------|--------------------|----------------|---|
| BDG311CP   | Diagonal Cutter             | 1-9/16             | 11             | • |
| BDG91145CP | 45° Bent Needle Nose Pliers | 3-3/16             | 11             | • |
| BDG911CP   | Needle Nose Pliers          | 3-9/16             | 11             | • |

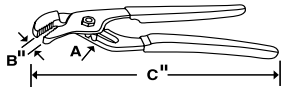


BDGPL200XLR

### Extra-Long Reach (Blue-Point®)

Set Contains: **BDGPL200XLR**

| Stock No.  | Description                 | Jaw Length, inches | Length, inches |   |
|------------|-----------------------------|--------------------|----------------|---|
| BDG91645CP | 45° Bent Needle Nose Pliers | 3-3/16             | 16             | • |
| BDG916CP   | Needle Nose Pliers          | 3-9/16             | 16             | • |



AP10

### Adjustable Joint (Blue-Point®)

| Stock No. | Description      | Max. Jaw Positions (A) | Parallel Opening, inches (B) | Length, inches (C) |
|-----------|------------------|------------------------|------------------------------|--------------------|
| AP7       | Adjustable Joint | 9                      | 1-1/2                        | 7                  |
| AP10      | Adjustable Joint | 11                     | 1-3/4                        | 10                 |
| AP12      | Adjustable Joint | 13                     | 2-1/16                       | 12                 |



BLPBC30

### Heavy-Duty Bolt Cutters (Blue-Point®)

Drop-forged, alloy steel jaws are precision ground to provide a long-lasting cutting edge. Lightweight, tubular steel handles deliver extra leverage for tough jobs. Comfortable heavy-duty grips resist slippage.

| Stock No. | Capacity (Soft Material), inches | Capacity (Hard Material), inches | Length, inches | Weight, lb (kg) | Replacement Jaw Assembly |
|-----------|----------------------------------|----------------------------------|----------------|-----------------|--------------------------|
| BLPBC18   | 3/8                              | 1/4                              | 18             | 3.4 (1.55)      | BLPBC18-1                |
| BLPBC24   | 7/16                             | 5/16                             | 24             | 5.6 (2.55)      | BLPBC24-1                |
| BLPBC30   | 1/2                              | 3/8                              | 30             | 8.6 (3.9)       | BLPBC30-1                |
| BLPBC36   | 9/16                             | 7/16                             | 36             | 14.2 (6.45)     | BLPBC36-1                |

## Screwdrivers (Soft Grip Handle)

- Slim tip design accesses fasteners in tight areas faster and easier
- No conductive path to user
- No insulation to puncture, tear or wear through
- Exceeds ANSI®, ISO® and ASME® strength and performance requirements for standard steel tools
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC®60900
- US Patent #6,655,240 B1



CNSGD<sub>X</sub>60

Set Contains:

CNSGD<sub>X</sub>60

|               | Stock No. | Tip Size | Shank Length, inches | Length, inches |   |
|---------------|-----------|----------|----------------------|----------------|---|
| Flat Tip      | CNSGDF66  | 3/16     | 6                    | 11-1/2         | • |
|               | CNSGDF68  | 1/4      | 6                    | 11-1/2         | • |
|               | CNSGDF69  | 9/32     | 6                    | 11-1/2         | • |
| Phillips® Tip | CNSGDP61  | #1       | 6                    | 11-1/2         | • |
|               | CNSGDP62  | #2       | 6                    | 11-1/2         | • |
|               | CNSGDP63  | #3       | 6                    | 11-1/2         | • |

## Screwdrivers (Screwdriver Handle)

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- U.S. Patent 5,259,277



IHT60K



IHTS6



IHTP62

Set Contains:

IHT60K

|               | Stock No. | Tip Size | Shank Length, inches | Length, inches | Replacement Bit |   |
|---------------|-----------|----------|----------------------|----------------|-----------------|---|
| Flat Tip      | IHTS3     | 3/16     | 3-1/4                | 8-3/16         | IHTS65          | • |
|               | IHTS37    | 7/32     | 3-1/4                | 8-3/16         | IHTS37-5        |   |
|               | IHTS38    | 1/4      | 3-1/4                | 8-3/16         | IHTS685         |   |
|               | IHTS6     | 1/4      | 6                    | 11             | IHTS685         | • |
|               | IHTS610   | 5/16     | 6                    | 11             | IHTS6105        |   |
|               | IHTS9     | 5/16     | 9                    | 14             | IHTS6105        | • |
|               | IHTS912   | 3/8      | 9                    | 14             | IHTS912-5       |   |
| Phillips® Tip | IHTP31    | #1       | 3-1/4                | 8-3/16         | IHTP315         | • |
|               | IHTP62    | #2       | 6                    | 11             | IHTP625         |   |
|               | IHTP63    | #3       | 6                    | 11             | IHTP635         | • |

## Screw Starters and Screwdriver Shanks

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900



CSSC9



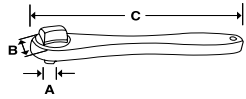
SGDMRC4-C6

| Stock No.  | Handle Type                   | Handle Diameter, inches | Tip Style          | Tip Width Size   | Length, inches |
|------------|-------------------------------|-------------------------|--------------------|------------------|----------------|
| CSSC9      | Composite                     | 9/32                    | Flat Tip/PHILLIPS® | .032 x 9/32", #2 | 9              |
| SGDMRC4-C6 | Composite Magnetic Bit Holder | 3/8                     | —                  | —                | 7-1/4          |



- Plastic-coated handles on these pliers and cutters do not protect against electric shock
- Do not use damaged nonconductive tools
- Read safety precautions on pages W1 to W4

## NON-CONDUCTIVE COMPOSITE TOOLS

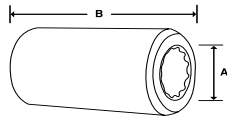


CFS949A

### Ratchets

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900

| Stock No. | Square Drive, inches (A) | Head Width, inches (B) | Length, inches (C) |
|-----------|--------------------------|------------------------|--------------------|
| CFS949A   | 3/8                      | 1-19/32                | 8-3/4              |
| CSS949A   | 1/2                      | 1-19/32                | 8-3/4              |



207CFDSY




IHT208K

### Sockets, mm, 12-Point

Set Contains:

207CFDSY

|  | 12      | Outside Diameter, inches (A) | Length, inches (B) |   |
|---|---------|------------------------------|--------------------|---|
| 1/4   | CFDS8B  | 15/16                        | 1-3/4              |   |
| 5/16  | CFDS10B | 15/16                        | 1-3/4              |   |
| 3/8   | CFDS12B | 1                            | 1-3/4              | • |
| 7/16  | CFDS14B | 1                            | 1-3/4              | • |
| 1/2   | CFDS16B | 1-3/16                       | 2                  | • |
| 9/16  | CFDS18B | 1-3/16                       | 2                  | • |
| 5/8   | CFDS20B | 1-3/16                       | 2                  | • |
| 11/16   | CFDS22B | 1-3/8                        | 2-1/4              | • |
| 3/4   | CFDS24B | 1-3/8                        | 2-1/4              | • |

### IHT208K Non-Conductive Composite Ratchet and Socket Set


- Includes (8) CFDS12B–CFDS24B sockets (3/8–3/4") plus CFS949A ratchet in a C0800 kit bag



CFDSM15B

### Sockets, mm, 12-Point

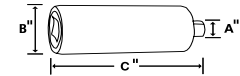
- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® #60900

|  | Stock No. | Outside Diameter, mm (A) | Length, mm (B) |
|---|-----------|--------------------------|----------------|
| 10  | CFDSM10B  | 25.1                     | 44.9           |
| 12  | CFDSM12B  | 29.6                     | 51.2           |
| 13  | CFDSM13B  | 29.6                     | 51.2           |
| 14  | CFDSM14B  | 29.6                     | 51.2           |
| 15  | CFDSM15B  | 29.6                     | 51.2           |
| 16  | CFDSM16B  | 33.5                     | 57.4           |
| 17  | CFDSM17B  | 33.5                     | 57.4           |
| 18  | CFDSM18B  | 33.5                     | 57.4           |
| 19  | CFDSM19B  | 33.5                     | 57.4           |



## Extensions

| Stock No. | Square Drive, inches (A) | Outside Diameter, inches (B) | Length, inches (C) |
|-----------|--------------------------|------------------------------|--------------------|
| CFX3      | 3/8                      | 1                            | 3                  |
| CFX6      | 3/8                      | 2                            | 6                  |
| CFX12     | 3/8                      | 2                            | 12                 |
| CSX5      | 1/2                      | 1-5/16                       | 5-21/32            |
| CSX10     | 1/2                      | 1-5/16                       | 10-21/32           |

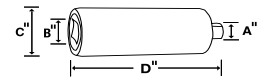


CFX6

## Adaptors

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Only Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900

| Stock No. | A   | B   | C      | D       |
|-----------|-----|-----|--------|---------|
| CA1MF     | 3/8 | 1/2 | 1-5/16 | 3-25/32 |
| CA2A      | 1/2 | 3/8 | 1      | 3-7/8   |



CA1MF

## CFSSB8 3/8" Drive Non-Conductive Composite Universal Bit Holder

- Composite (insulating) universal bit socket for holding 1/4" bits
- 1" O.D.; 1-3/4" long
- No conductive path to user
- Each tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900
- ASTM® standards for insulating hand tools



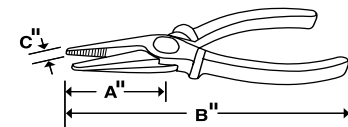
CFSSB8



C59AHL



C97CP



## Pliers

- Non-conductive needle nose pliers feature all composite jaw and handle
- Spring-loaded joint return the pliers to a comfortable working position
- Durable jaw teeth aid in gripping and twisting
- Integral thumb guard for user protection
- Non-conductive lineman's pliers has the same quality as the standard lineman's pliers for performance and durability
- Non-conductive handles are soft grip for comfort and control
- Each tool is individually tested to ensure protection up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900 ASTM® standards for insulating hand tools

| Stock No. | Description        | Jaw Length, inches (A) | Length, inches (B) | Tip Width, inches (C) |
|-----------|--------------------|------------------------|--------------------|-----------------------|
| C59AHL    | Lineman's Pliers   | 1-13/32                | 10                 | 5/8                   |
| C97CP     | Needle Nose Pliers | 2                      | 8-1/2              | 5/32                  |



- Do not use damaged nonconductive tools
- Do not use "cheater bars" on handles
- Do not use with impact drivers
- Read safety precautions on page W1 to W4

## NONCONDUCTIVE COMPOSITE TOOLS



CSN24B

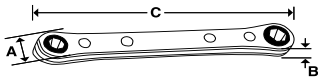
### Breaker Bar

- Features the comfort and control of a Snap-on® screwdriver-style handle
- UL® listed
- Each tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Meets IEC® 60900 and ASTM® 1505 standards for insulating hand tools
- Exceeds ASME®/ANSI® B107.10M strength requirements for standard steel tools

| Stock No. | Description  | Head Width, inches | Length, inches | Head Diameter, inches |
|-----------|--|--------------------|----------------|-----------------------|
| CSN24B    | 1/2" Drive, 24-1/2" Non-Conductive Composite Breaker Bar | 1-1/8              | 24-1/2         | 1                     |




CRB1824



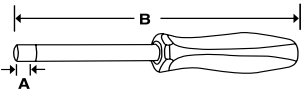
### Ratcheting Box Wrench

- UL® listed
- Individually tested to protect up to 1,000 V AC and 1,500 V DC
- All tools meet UL®, IEC®, ASME® and ASTM® specs

| Stock No. |  | Finish    | Head Diameter, inches (A) | Head Depth, inches (B) | Length, inches (C) |
|-----------|---|-----------|---------------------------|------------------------|--------------------|
| CRB1824   | 9/16-3/4  | Composite | 1-9/16-1-13/16            | 5/8-5/8                | 9-1/16             |



107CNDD




### Nut Drivers

- Snap-on® non-conductive composite nut drivers have the 6-point Flank Drive® wrenching system for greater turning power with less fastener damage
- Nut drivers feature narrow, non-conductive composite shanks for greater access and a full 5" bolt clearance depth
- Screwdriver-style handles provide maximum comfort and control
- Handles are color coded for easy size reference
- Sizes are stamped on the handle crown for better visibility when wearing a tool pouch
- Each tool is individually tested to ensure protection up to 1,000 V AC and 1,500 V DC
- Snap-on® non-conductive tools are UL® listed, assuring compliance to IEC® 60900 ASTM® standards for insulating hand tools
- US Patent #6,427,563

Set Contains:

107CNDD

| Stock No. |  | Bolt Clearance Diameter, inches (A) | Length, inches (B) |   |
|-----------|---|-------------------------------------|--------------------|---|
| CNDD106   | 3/16  | 5/32                                | 7-5/8              | • |
| CNDD107   | 7/32  | 5/32                                | 7-5/8              | • |
| CNDD108   | 1/4   | 5/32                                | 7-5/8              | • |
| CNDD110   | 5/16  | 5/32                                | 7-5/8              | • |
| CNDD112   | 3/8   | 11/32                               | 8-3/8              | • |
| CNDD114   | 7/16  | 11/32                               | 8-17/32            | • |
| CNDD116   | 1/2   | 11/32                               | 9-1/16             | • |

# PUNCHES, CHISELS, HAMMERS

PROVIDING THE ULTIMATE IN FINESSE, POWER AND RELIABILITY, OUR HAMMERS, PUNCHES AND CHISELS ARE MADE FROM SPECIAL ENERGY-ABSORBING MATERIAL FOR DELIVERING POWERFUL BLOWS WITHOUT PUNISHING YOUR HANDS AND ARMS. AND WITH A WIDE SELECTION IN BOTH HARD AND SOFT GRIPS, YOU'LL ALWAYS FIND THE RIGHT TOOL FOR ANY JOB.

## MADE TO HAMMER MEDIOCRITY.

We offer the industry's highest quality and largest range of striking tools. Heat-treated steel and machined heads that direct the striking force to the center of the head provide max strength and performance in our punches and chisels. Our dead blow, ball peen and standard hammers feature a free-flowing shot that improves dead blow action and delivers concentrated blows while reducing rebound. Their composite handles also reduce vibration, prevent slippage and withstand the harshest shop environments.



# PUNCHES AND CHISELS

## Punches and Chisels

The anvil end on heads of Snap-on® punches and chisels are machined to a modified parabolic curve. This design directs the striking force to the center of the tool head to allow slow metal displacement. The parabolic curve controls mushrooming to reduce chipping and splitting. Heads should be redressed to their original shape with hand files as necessary. The tough alloy steel is machined and differentially heat treated for optimum performance. The hardness of the striking head is reduced to help toughness and add qualities that result in a slower mushrooming of the striking surface.

## Soft Grip Punches and Chisels

- Ergonomic soft grip handle provides a powerful grip, improves the thermal sensation in cold work environments and reduces strike vibration
- Semispherical striking area controls mushrooming to help reduce chipping and splitting
- Cutting edges on chisels are hand ground to consistently produce a quality edge
- Black oxide coated



PPCSG710

Set Contains:

| Stock No. | Description   | Length, inches | Point/ Edge, inches |   |
|-----------|---------------|----------------|---------------------|---|
| PCSG812   | Flat Chisel   | 6-1/8          | 3/8                 | • |
| PCSG816   | Flat Chisel   | 6-1/8          | 1/2                 | • |
| PCSG820   | Flat Chisel   | 6-1/8          | 5/8                 | • |
| PPSG103   | Pin Punch     | 6-1/8          | 3/32                | • |
| PPSG105   | Pin Punch     | 6-1/2          | 5/32                | • |
| PPSG106   | Pin Punch     | 6-1/2          | 3/16                | • |
| PPSG203   | Starter Punch | 6-1/8          | 3/32                | • |
| PPSG205   | Starter Punch | 6-1/8          | 5/32                | • |
| PPSG206   | Starter Punch | 6-1/8          | 3/16                | • |
| PPSG4     | Center Punch  | 6-1/8          | 3/16                | • |

- Feature a comfortable yet extremely durable split-proof composite handle that provides a non-slip surface and safety shoulder to prevent contacting the metal blade
- Manufactured from special alloy steel that is differentially heat treated to increase durability
- Forged blade is precision ground and honed for strength and blade edge maintenance
- Designed for use with steel and steel-faced hammers
- Chisels are intended for woodworking applications or scraping applications

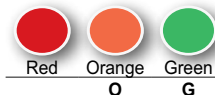


CHSL400R

Set Contains:

| Stock No. | Description     | Tip Width, inches (mm) |   |
|-----------|-----------------|------------------------|---|
| CHSL25    | Striking Chisel | 1/4 (6.35)             | • |
| CHSL50    | Striking Chisel | 1/2 (12.7)             | • |
| CHSL75    | Striking Chisel | 3/4 (19.05)            | • |
| CHSL100   | Striking Chisel | 1 (25.4)               | • |

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



PPC704BK

## Oval Bearing Race Punches

High alloy steel makes these tools ideal for stubborn bearing races.

Set Contains:

| Stock No. | Description                 |   |
|-----------|-----------------------------|---|
| PPC10LB   | 10" Oval Bearing Race Punch | • |
| PPC14LB   | 14" Oval Bearing Race Punch | • |
| PPC20LB   | 20" Oval Bearing Race Punch | • |
| PPC6LB    | 6" Oval Bearing Race Punch  | • |



GA1

## Bushing Cutter

### GA1 Bushing Cutter (Blue-Point®)

- Made of 1/2" octagonal stock with a 7/16 x 1/8" bit
- Curved bit pushes material away from work
- 7-1/4" long



YA879A



YA900

## Automatic Centering Punches

### YA879A Heavy-Duty Automatic Center Punch (Blue-Point®)

- Single-hand operation
- Design eliminates need for striking with hammer
- Adjustable spring tension cap
- Hardened-steel point is replaceable
- 1/2" diameter

### YA900 4-3/4" Automatic Center Punch (Blue-Point®)

- Strikes blow when pressure is applied, no hammer needed
- Cap adjusts force of blow
- 7/16" diameter
- 4-3/4" long

## Gasket Punch Set

### PGH8A ± 11 pc Gasket Punch Set (Blue-Point®)











- Cut holes in gaskets and other soft materials
- Includes 5-3/8" long mandrel and (10) punches (1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8 and 1")
- Includes storage case



PGH8A

# PUNCHES AND CHISELS

PUNCHES/CHISELS/HAMMERS

|  | Stock No. | Hex Size, inches | Point/Edge, inches | Length, inches | Set Contains: |          |          |          |           |          |          |          |         |          |  |  |   |   |   |
|--|-----------|------------------|--------------------|----------------|---------------|----------|----------|----------|-----------|----------|----------|----------|---------|----------|--|--|---|---|---|
|  |           |                  |                    |                | PPC250BK      | PPC210BK | PPC115BK | PPC110BK | PPSD120BK | PPC100AK | PPCD70BK | PPCM60BK | PPC50AK | PPCM60BK |  |  |   |   |   |
| <b>Punch and Chisel Accessories</b><br>   | PPC1A     | N/A              | N/A                | 2-5/8          | •             | •        | •        | •        |           |          |          |          |         |          |  |  |   |   |   |
|  | PPC5A     | N/A              | N/A                | 6-15/16        |               | •        |          |          |           |          |          |          |         |          |  |  |   |   |   |
| <b>Center Punches</b><br>                 | PPC3A     | 5/16             | 1/8                | 5              | •             | •        | •        |          |           |          |          |          |         |          |  |  |   |   |   |
|  | PPC4A     | 7/16             | 3/16               | 6              | •             | •        | •        | •        |           |          |          |          |         |          |  |  |   |   |   |
|  | PPC6B     | 5/8              | 5/16               | 7              |               |          |          |          |           |          |          |          |         |          |  |  |   |   |   |
|  | PPC714B   | 9/16             | 5/32               | 14             |               |          |          |          |           |          |          |          |         |          |  |  |   |   |   |
| <b>Pin Punches</b><br>                    | PPC103A   | 9/32             | 3/32               | 4-7/32         | •             | •        | •        | •        | •         |          |          | •        |         |          |  |  |   |   |   |
|  | PPC104A   | 5/16             | 1/8                | 4-3/4          | •             | •        | •        | •        | •         |          |          | •        |         |          |  |  |   |   |   |
|  | PPC105A   | 3/8              | 5/32               | 5              | •             | •        | •        | •        | •         |          |          | •        |         |          |  |  |   |   |   |
|  | PPC106A   | 3/8              | 3/16               | 5-1/4          | •             | •        | •        | •        | •         |          |          | •        |         |          |  |  |   |   |   |
|  | PPC107A   | 3/8              | 7/32               | 5-1/4          | •             |          |          |          |           |          |          | •        |         |          |  |  |   |   |   |
|  | PPC108A   | 7/16             | 1/4                | 5-3/4          | •             | •        | •        |          |           |          | •        | •        |         |          |  |  |   |   |   |
|  | PPC110A   | 1/2              | 5/16               | 5-1/4          | •             | •        |          |          |           |          | •        | •        |         |          |  |  |   |   |   |
|  | PPC112    | 9/16             | 3/8                | 5-1/4          | •             | •        |          |          |           |          |          |          |         |          |  |  |   |   |   |
| <b>Metric Pin Punches</b><br>             | PPCM103B  | 5/16             | (3)                | 154.2          |               |          |          |          |           |          |          |          |         |          |  |  |   | • |   |
|  | PPCM104B  | 5/16             | (4)                | 154.2          |               |          |          |          |           |          |          |          |         |          |  |  |   |   | • |
|  | PPCM105B  | 3/8              | (5)                | 154.2          |               |          |          |          |           |          |          |          |         |          |  |  |   |   | • |
|  | PPCM106B  | 3/8              | (6)                | 154.2          |               |          |          |          |           |          |          |          |         |          |  |  |   |   | • |
|  | PPCM107B  | 3/8              | (7)                | 154.2          |               |          |          |          |           |          |          |          |         |          |  |  |   |   | • |
|  | PPCM108B  | 7/16             | (8)                | 154.2          |               |          |          |          |           |          |          |          |         |          |  |  |   |   | • |
| <b>Starter Punches</b><br>               | PPC203A   | 5/16             | 3/32               | 5-1/2          | •             | •        | •        | •        | •         |          |          |          |         |          |  |  | • |   |   |
|  | PPC204A   | 3/8              | 1/8                | 5-3/4          | •             | •        | •        | •        | •         |          |          |          |         |          |  |  |   | • |   |
|  | PPC205A   | 3/8              | 5/32               | 6              | •             | •        | •        | •        | •         |          |          |          |         |          |  |  |   | • |   |
|  | PPC206A   | 7/16             | 3/16               | 6-1/4          | •             | •        | •        | •        | •         |          |          |          |         |          |  |  |   | • |   |
|  | PPC208A   | 1/2              | 1/4                | 6-3/4          | •             | •        | •        |          |           |          | •        |          |         |          |  |  |   | • |   |
|  | PPC210A   | 9/16             | 5/16               | 7-1/4          | •             | •        |          |          |           |          | •        |          |         |          |  |  |   | • |   |
| <b>Flat Chisels</b><br>                 | PPC808A   | 1/4              | 1/4                | 5              |               |          |          |          |           |          |          |          |         |          |  |  |   |   |   |
|  | PPC812B   | 5/16             | 3/8                | 5-1/2          | •             | •        | •        | •        |           |          | •        |          |         |          |  |  |   | • |   |
|  | PPC816B   | 7/16             | 1/2                | 6              | •             | •        | •        | •        |           |          | •        |          |         |          |  |  |   | • |   |
|  | PPC820B   | 1/2              | 5/8                | 6-1/2          | •             | •        | •        | •        |           |          | •        |          |         |          |  |  |   | • |   |
|  | PPC824B   | 5/8              | 3/4                | 7-1/4          | •             | •        |          |          |           |          | •        |          |         |          |  |  |   | • |   |
|  | PPC828B   | 11/16            | 7/8                | 8              | •             | •        |          |          |           |          | •        |          |         |          |  |  |   | • |   |
|  | PPC832B   | 7/8              | 1                  | 9              |               |          |          |          |           |          |          |          |         |          |  |  |   |   |   |
| BPPC1878*  | 7/8       | 1                | 18                 |                |               |          |          |          |           |          |          |          |         |          |  |  |   |   |   |
| <b>Long Flat Chisels</b><br>            | PPC820LB  | 1/2              | 5/8                | 16             |               |          |          |          |           |          |          |          |         |          |  |  |   |   |   |
| <b>Half Round Nose Cape Chisels</b><br> | PPC12B    | 3/8              | 5/16               | 6              | •             |          |          |          |           |          |          | •        |         |          |  |  |   |   |   |
| <b>Cape Chisels</b><br>                 | PPC13B    | 5/16             | 1/4                | 5-5/8          |               |          |          |          |           |          |          | •        |         |          |  |  |   |   |   |
|  | PPC14B    | 3/8              | 5/16               | 6              | •             |          |          |          |           |          |          | •        |         |          |  |  |   |   |   |
| <b>Diamond Point Chisels</b><br>        | PPC15B    | 7/16             | 7/32               | 6              |               |          |          |          |           |          |          | •        |         |          |  |  |   |   |   |
|  | PPC19B    | 3/8              | 1/8                | 5-3/4          | •             |          |          |          |           |          |          | •        |         |          |  |  |   |   |   |
| Kit Bag  |           |                  |                    |                | KB2179        | KB2178   | KB2182   | KB2181   | KB2187    | KB2175   | KB2183   | KB2185   | KB2173  | KB2189   |  |  |   |   |   |

\*Blue-Point®



- Use the proper punch or chisel for the job
- Do not use punches or chisels having chipped or mushroomed end; discard or dress to original shape with a hand file
- Use hammer with head about 3/8" larger in diameter than head of punch or chisel
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## PUNCHES AND CHISELS



PPRG80

### PPRG80 8 pc Roll Pin Punch Guide Set

- Companion tool to the PPR708BK Roll Pin Punch Set
- Provides faster, safer pin installation
- Pin guide is a vinyl sleeve uniting pin and punch to achieve perfect alignment during installation
- Ideal for pin installation in tight quarters where two hands cannot reach
- For use with Snap-on® Roll Pin Punches PPR2–PPR8 (1/16–1/4")
- Can also be used with Snap-on® Pin Punches PPC103A–PPC108A (3/32–1/4") and long pin punches PPC104LA–PPC108LA (1/8–1/4")



GA237

### Steel Stamping Sets

- Heat-treated square stamp bodies
- Stored in two-piece wooden containers

| Stock No. | Characters | Number Stamps | Figure Size, inches | Square Body, inches | Length, inches |
|-----------|------------|---------------|---------------------|---------------------|----------------|
| GA237*    | 0–9        | 9             | 3/16                | 5/16                | 2-7/16         |
| GA238†    | A–Z        | 27            | 3/16                | 5/16                | 2-7/16         |
| YA817*    | 0–9        | 9             | 1/8                 | 1/4                 | 2-3/8          |
| YA818†    | A–Z        | 27            | 1/8                 | 1/4                 | 2-3/8          |

\*One stamp serves as both 6 and 9.

†Also includes stamp for period.



DPFT531

### Transfer Punches (Blue-Point®)









Set Contains:

DPFT531

| Stock No.  | Description                         |   |
|------------|-------------------------------------|---|
| DPFT531-6  | 3/32" Transfer Punch (Blue-Point®)  | • |
| DPFT531-7  | 7/64" Transfer Punch (Blue-Point®)  | • |
| DPFT531-8  | 1/8" Transfer Punch (Blue-Point®)   | • |
| DPFT531-9  | 9/64" Transfer Punch (Blue-Point®)  | • |
| DPFT531-10 | 5/32" Transfer Punch (Blue-Point®)  | • |
| DPFT531-11 | 11/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-12 | 3/16" Transfer Punch (Blue-Point®)  | • |
| DPFT531-13 | 13/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-14 | 7/32" Transfer Punch (Blue-Point®)  | • |
| DPFT531-15 | 15/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-16 | 1/4" Transfer Punch (Blue-Point®)   | • |
| DPFT531-17 | 17/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-18 | 9/32" Transfer Punch (Blue-Point®)  | • |
| DPFT531-19 | 19/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-20 | 5/16" Transfer Punch (Blue-Point®)  | • |
| DPFT531-21 | 21/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-22 | 11/32" Transfer Punch (Blue-Point®) | • |
| DPFT531-23 | 23/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-24 | 3/8" Transfer Punch (Blue-Point®)   | • |
| DPFT531-25 | 25/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-26 | 13/32" Transfer Punch (Blue-Point®) | • |
| DPFT531-27 | 27/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-28 | 7/16" Transfer Punch (Blue-Point®)  | • |
| DPFT531-29 | 29/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-30 | 15/32" Transfer Punch (Blue-Point®) | • |
| DPFT531-31 | 31/64" Transfer Punch (Blue-Point®) | • |
| DPFT531-32 | 1/2" Transfer Punch (Blue-Point®)   | • |
| DPFT531-34 | 17/32" Transfer Punch (Blue-Point®) | • |
| DPFT531-48 | 3/4" Transfer Punch (Blue-Point®)   | • |
| DPFT531-56 | 7/8" Transfer Punch (Blue-Point®)   | • |
| DPFT531-64 | 1" Transfer Punch (Blue-Point®)     | • |
| DPFT531-P  | Replacement Pouch (Blue-Point®)     | • |

# PUNCHES AND CHISELS

# PUNCHES/CHISELS/HAMMERS

|  |           |                     |                           |                   | Set<br>Contains: | PPR708BK | PPCL60BK | PPVP70BK | PPLT40AK | LP30A  | PPB30AK | PPBL30AK | PPB20AK |
|--|-----------|---------------------|---------------------------|-------------------|------------------|----------|----------|----------|----------|--------|---------|----------|---------|
|  | Stock No. | Hex Size,<br>inches | Point/<br>Edge,<br>inches | Length,<br>inches |                  |          |          |          |          |        |         |          |         |
| <br>Roll Pin Punches              | PPR2      | —                   | 1/16                      | 3-5/32            | •                |          |          |          |          |        |         |          |         |
|  | PPR2-1/2  | —                   | 5/64                      | 3-1/2             | •                |          |          |          |          |        |         |          |         |
|  | PPR3      | —                   | 3/32                      | 3-29/32           | •                |          |          |          |          |        |         |          |         |
|  | PPR4      | —                   | 1/8                       | 4-1/4             | •                |          |          |          |          |        |         |          |         |
|  | PPR5      | —                   | 5/32                      | 4-5/8             | •                |          |          |          |          |        |         |          |         |
|  | PPR6      | —                   | 3/16                      | 5                 | •                |          |          |          |          |        |         |          |         |
|  | PPR7      | —                   | 7/32                      | 5-3/8             | •                |          |          |          |          |        |         |          |         |
|  | PPR8      | —                   | 1/4                       | 5-3/4             | •                |          |          |          |          |        |         |          |         |
|  | PPR10     | —                   | 5/16                      | 6-1/8             |                  |          |          |          |          |        |         |          |         |
|  | PPR12     | —                   | 3/8                       | 6-1/8             |                  |          |          |          |          |        |         |          |         |
|  | PPR14     | —                   | 7/16                      | 6-1/8             |                  |          |          |          |          |        |         |          |         |
|  | PPR16     | —                   | 1/2                       | 6-1/8             |                  |          |          |          |          |        |         |          |         |
| <br>Long Pin Punches              | PPC104LA  | 5/16                | 1/8                       | 5-5/16            |                  | •        |          |          |          |        |         |          |         |
|  | PPC105LA  | 3/8                 | 5/32                      | 6-1/2             |                  | •        |          |          |          |        |         |          |         |
|  | PPC106LA  | 3/8                 | 3/16                      | 7-1/16            |                  | •        |          |          |          |        |         |          |         |
|  | PPC107LB  | 3/8                 | 7/32                      | 7-5/8             |                  | •        |          |          |          |        |         |          |         |
|  | PPC108LA  | 7/16                | 1/4                       | 8-3/16            |                  | •        |          |          |          |        |         |          |         |
|  | PPC110LA  | 1/2                 | 5/16                      | 8-3/4             |                  | •        |          |          |          |        |         |          |         |
| <br>Midget Punches and<br>Chisels | PPC402A   | 9/32                | 1/16                      | 3                 |                  |          |          | •        |          |        |         |          |         |
|  | PPC403A   | 9/32                | 1/8                       | 3-1/4             |                  |          |          | •        |          |        |         |          |         |
|  | PPC404A   | 9/32                | 3/32                      | 3-5/8             |                  |          |          | •        |          |        |         |          |         |
|  | PPC405A   | 9/32                | 1/16                      | 3-3/4             |                  |          |          | •        |          |        |         |          |         |
|  | PPC406B   | 9/32                | 3/16                      | 3-7/8             |                  |          |          | •        |          |        |         |          |         |
|  | PPC407B   | 9/32                | 5/32                      | 4                 |                  |          |          | •        |          |        |         |          |         |
|  | PPC408B   | —                   | 5/16                      | 4-1/8             |                  |          |          | •        |          |        |         |          |         |
| <br>Drift Pin Punches           | PPC905B   | 3/8                 | 5/32                      | 8                 |                  |          |          | •        |          |        |         |          |         |
|  | PPC908B   | 7/16                | 1/4                       | 8-1/2             |                  |          |          | •        |          |        |         |          |         |
|  | PPC910B   | 1/2                 | 5/16                      | 9                 |                  |          |          | •        |          |        |         |          |         |
|  | PPC912B   | 9/16                | 3/8                       | 9-1/2             |                  |          |          | •        |          |        |         |          |         |
|  | 1210B     | 5/8                 | 5/16                      | 12                |                  |          |          |          | •        |        |         |          |         |
|  | 1512B     | 3/4                 | 3/8                       | 15                |                  |          |          |          | •        |        |         |          |         |
|  | 1816B     | 7/8                 | 1/2                       | 18                |                  |          |          |          | •        |        |         |          |         |
| <br>Bronze Pin<br>Punches       | PPB408A   | —                   | 1/4                       | 4                 |                  |          |          |          |          |        | •       |          |         |
|  | PPB612A   | —                   | 3/8                       | 6                 |                  |          |          |          |          |        | •       |          |         |
| <br>Bronze Drift<br>Punches     | PPB816A   | —                   | 1/2                       | 8                 |                  |          |          |          |          |        | •       |          |         |
|  | PPB826A   | —                   | 13/16                     | 8                 |                  |          |          |          |          |        |         | •        |         |
|  | PPB1226A  | —                   | 13/16                     | 12                |                  |          |          |          |          |        |         | •        |         |
| <br>Bronze Tapered<br>Punches   | PPB1001A  | 5/8                 | 3/8                       | 8                 |                  |          |          |          |          |        |         |          |         |
|  | PPB1012A  | —                   | 3/8                       | 10                |                  |          |          |          |          |        |         | •        | •       |
|  | PPB1414A  | —                   | 7/16                      | 14                |                  |          |          |          |          |        |         |          | •       |
| <br>Bronze Round<br>Punch       | PPB1002A  | —                   | 3/4                       | 10                |                  |          |          |          |          |        |         |          |         |
| Kit Bag  |           |                     |                           |                   |                  | KB2186   | KB2184   | KB2188   | KB2174   | KB2177 | KB2171  | KB2172   | KB2170  |



- Use the proper punch or chisel for the job
- Do not use punches or chisels having chipped or mushroomed end; discard or dress to original shape with a hand file
- Use hammer with head about 3/8" larger in diameter than head of punch or chisel
- Read safety precautions on pages W1 to W4

## PUNCHES AND CHISELS

### Spring Punches

#### 4 pc Heavy-Duty Spring Punch Set

- Deliver accurate blows to the toughest materials
- No hammer required, reducing risk of injury
- Knurled shank provides outstanding grip for precision and control of punch even when using gloves
- Made from quality hardened-carbon steel for use in a variety of mechanical and metal working applications
- Each blow delivers up to 5,000 PSI of impact force
- Optional SPP1813 Spring Punch Prop available



SPHDSET4

Set Contains:

| Stock No. | Description                            |   |
|-----------|--|---|
| SPHDCC716 | 7/16" Heavy-Duty Spring Cold Chisel    | • |
| SPHDCP716 | 7/16" Heavy-Duty Spring Center Punch   | • |
| SPHDPP14  | 1/4" Heavy-Duty Spring Pin Punch       | • |
| SPHDTP716 | 7/16" Heavy-Duty Spring Transfer Punch | • |

SPHDSET4

## DEAD BLOW HAMMERS

### Standard

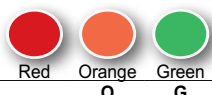
- Dead Blow Hammers feature a free-flowing shot design that improves dead blow action while reducing rebound
- Compact head has larger striking area and heavier caps to improve delivered force
- Soft grip handle with ribbed, textured, elastomer grip prevents hand slippage
- Multi-position hand grip allows user to position hand closer to hammer end for improved control
- Handle flare helps prevent hammer from slipping out of hand

- Composite handle shank improves balance while defusing shock and dampening vibration
- Tough, long-lasting thermoplastic material is non-sparking and resistant to most shop chemicals
- Applications: brake rotors, brake drum removal, ball joints (tie rod removal), tires, seal installation, loosen oil pans and covers, OE rims, axle insertion, piston installation and crank shaft end play



HBFE32

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

| Stock No. | Weight, oz | Head Length, inches | Face Dia., inches | Length, inches |   |
|-----------|------------|---------------------|-------------------|----------------|---|
| HBFE16    | 16         | 3-1/4               | 1-9/16            | 12             |   |
| HBFE24    | 24         | 3-3/4               | 1-3/4             | 12-3/4         | • |
| HBFE32    | 32         | 4-1/4               | 2                 | 13-1/2         | • |
| HBFE48    | 48         | 4-3/4               | 2-1/4             | 15             | • |
| HBFE56    | 56         | 5-7/16              | 2-3/4             | 15-3/4         |   |

Set Contains:

HBFE103

### Compact Slimline

- Microcellular soft grip handle provides a comfortable, secure grip and dampens the vibration to the user's hand
- Smaller face for more concentrated blows
- Longer head profile for extended reach in tight work applications
- Multi-position hand grip allows user to position hand closer to hammer end for improved control

- Composite handle shank improves balance while defusing shock and dampening vibration
- Handle flare helps prevent hammer from slipping out of hand
- Applications include main bearing caps, dust caps, small objects, custom bikes and tighter applications that standard dead blow hammers will not fit



HBSE20

| Stock No. | Weight, oz | Face Dia., inches | Head Length, inches | Length, inches |
|-----------|------------|-------------------|---------------------|----------------|
| HBSE10    | 10         | 1-1/4             | 3-5/8               | 10-5/8         |
| HBSE20    | 20         | 1-3/8             | 4-1/4               | 11-1/8         |
| HBSE30    | 30         | 1-1/2             | 5-5/16              | 12-3/8         |



## Dead Blow Ball Peen

- Dead Blow Hammers feature free flow shot design that improves dead blow action while reducing rebound
- Internal steel canister with steel shot
- Precision-machined steel head provides a larger striking surface for optimal delivered force
- Microcellular soft grip handle provides a comfortable, secure grip and dampens vibration to the user's hand
- Multi-position hand grip allows user to position hand closer to hammer end for improved control
- Handle flare helps prevent hammer from slipping out of hand
- Composite handle shank improves balance while defusing shock and dampening vibration

| Stock No. | Weight, oz | Head Length, inches | Face Dia., inches | Length, inches |
|-----------|------------|---------------------|-------------------|----------------|
| HBB08     | 8          | 4                   | 1                 | 11-5/8         |
| HBB016*   | 16         | 4-3/8               | 1-1/4             | 12-1/4         |
| HBB024*   | 24         | 4-3/4               | 1-3/8             | 12-3/4         |
| HBB032*   | 32         | 5-3/4               | 1-3/4             | 13-5/8         |
| HBB040*   | 40         | 5-3/4               | 1-3/4             | 15-1/8         |



HBB024

Colors Available



\* Red O Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Dual-Face Drilling

- Different diameter striking faces can be matched to various cold chisels and punches
- Free-floating steel head canister design improved dead blow action and reduces rebound
- Nonslip handle design with ribbed thumb rest allows the user to chose up in tighter work areas
- Composite handle shank improves hammer balance while dampening vibration
- Chemical-resistant molded urethane cover

| Stock No. | Weight | Head Length, inches | Face Dia., inches | Length, inches |
|-----------|--------|---------------------|-------------------|----------------|
| HSS032    | 32     | 5-11/64             | 1-3/8-1-7/8       | 11-9/16        |



HSS032

Colors Available



\* Red O Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Sledge (Blue-Point®)

| Stock No. | Weight     | Head Length, inches | Face Dia., inches | Length, inches |
|-----------|------------|---------------------|-------------------|----------------|
| BC07B     | 5          | 7                   | 2-3/4             | 20             |
| BC110B    | 8          | 7                   | 2-3/4             | 30             |
| BC114B    | 11 lb 8 oz | 8                   | 3-1/4             | 36             |



BC110B

## HBBT Series Bronze

- Bronze-tipped nonmarring hammer ideally suited for work on bushings, gears and transmissions

| Stock No. | Weight, oz | Head Length, inches | Head Dia., inches | Length, inches |
|-----------|------------|---------------------|-------------------|----------------|
| HBBT16    | 16         | 3-3/4               | 1-3/8             | 12             |
| HBBT24    | 24         | 4-1/4               | 1-3/8             | 12             |
| HBBT32    | 32         | 4-1/2               | 1-1/2             | 12-3/4         |



HBBT32



- Do not use urethane hammers near liquid oxygen
- Do not strike another hammer or hardened object
- Do not use chipped, mushroomed or cracked hammer
- Strike squarely, avoid glancing blows
- Read safety precautions on pages W1 to W4

## SOFT FACE HAMMERS



HLE24

### Piston

- One-piece urethane construction
- Full-length canister increases head strength
- Made of material that will not damage the piston
- Shot-filled head drastically reduces rebound

| Stock No. | Weight, oz | Head Length, inches | Face Dia., inches | Length, inches |
|-----------|------------|---------------------|-------------------|----------------|
| HLE24     | 24         | 7-3/4               | 5-1/2             | 12-3/4         |



HBPT24

### HBPT Series Plastic

- Plastic-tipped hammers used where metal-to-metal scratching or marring needs to be eliminated

| Stock No. | Head Length, inches | Weight, oz | Length, inches | Soft Tip Stock No. (Black) | Hard Tip Stock No. (Gray) |
|-----------|---------------------|------------|----------------|----------------------------|---------------------------|
| HBPT16    | 3-3/4               | 16         | 12             | HPTS16                     | HPTH16                    |
| HBPT24    | 4-3/4               | 24         | 12-3/4         | HPTS24A                    | HPTH24A                   |



BF620C



BF623

### Mallets

#### BF620C Rubber Head 11" Mallet (Blue-Point®)

- Solid-rubber head is 3-3/4" long, 2-1/4" dia
- 11" hardwood handle

#### BF623 Soft Blow 12-1/2" Mallet (Blue-Point®)

- Designed to reduce marring and denting
- For use in assembly applications and on all types of surfaces, including metal, glass, plastic and wood
- Special polymer head resists dynamic fatigue, creep and compression set, even at extreme temperatures
- Conforms to irregular surfaces
- Dissipates hand-jarring shock
- Resists most chemicals
- Wood handle

| Stock No. | Description                            | Face Dimensions, inches | Length, inches |
|-----------|--|-------------------------|----------------|
| BF620C    | Rubber Head 11" Mallet (Blue-Point®)   | 2-1/4 dia.              | 3-3/4          |
| BF623     | Soft Blow 12-1/2" Mallet (Blue-Point®) | 1-7/8 x 2-1/8           | 12-1/2         |



HSPD16



BH232A

### Combination

- Combination steel and soft face dead blow
- One-piece urethane construction
- Replaceable tips

| Stock No.  | Head Length, inches                 | Weight, oz | Tip Diameter, inches | Length, inches | Soft Tip Stock No. | Hard Tip Stock No. |
|------------|-------------------------------------|------------|----------------------|----------------|--------------------|--------------------|
| HSPD16     | 4-3/8                               | 16         | 1-1/4                | 12-1/8         | HPTS16 (Black)     | —                  |
| BH232A * ‡ | —                                   | 32         | 1-5/8                | 13             | BH232-2            | BH232-3            |
| BH232-4 *  | Optional Nylon Tip (also available) |            |                      |                |                    |                    |
| BH232-5 *  | Optional brass tip (also available) |            |                      |                |                    |                    |

\*Blue-Point®



HBR15

### Brass (Fiberglass Handle)

- Non-sparking/non-marring surface for many applications
- Brass head absorbs blow and reduces rebound
- Flat surface for even distribution of blow
- Comfortable, nonslip handle grip

| Stock No. | Weight, lb | Length, inches |
|-----------|------------|----------------|
| HBR15 ‡   | 1-1/2      | 12             |
| HBR25     | 2-1/2      | 12             |
| HBR4 ‡    | 4          | 12             |
| HBR6 ‡    | 12         | 6              |

## SOFT FACE HAMMERS

### Interchangeable Head (Blue-Point®)

- Shot-loaded, dead blow hammer adds more striking force by eliminating rebound and dampening vibration shock
- 1-1/2" striking face diameter on each hammer head
- Six interchangeable heads meet a number of various applications, including non-marring and non-sparking applications with selected head surfaces (brass)
- Comfortable, nonslip handle grip
- Set includes 10" fiberglass handle and storage case
- Optional 1" head extender (HSPI6KT9)

| Stock No. | Description (Chart) | Weight, oz | Set Contains: |
|-----------|---------------------|------------|---------------|
| HSPI6KT1  | Hammer Handle       | 22         | •             |
| HSPI6KT2  | Soft Face           | 1.5        | •             |
| HSPI6KT3  | Medium Face         | 1.4        | •             |
| HSPI6KT4  | Medium Hard Face    | 1.3        | •             |
| HSPI6KT5  | Hard Face           | 1.3        | •             |
| HSPI6KT6  | Steel Face          | 2.2        | •             |
| HSPI6KT7‡ | Brass Face          | 2.2        | •             |

Includes storage case, HSPI6KT8



HSPI6KT



### Claw Hammers

#### HCLSB16 16 oz Claw Hammer

- Drop-forged carbon steel head
- Exclusive handle grip with different diameter hand zones for optimal comfort
- Handle has ridges and a flared end to prevent hand from slipping during use
- Snap-on® logo forged in handle; Snap-on® red enamel color
- Smooth striking face
- Anti-shock plug reduces vibration and hand fatigue

| Stock No. | Handle Length, inches (mm) | Weight, oz (grams) | Hammer Head Diameter, inches (mm) |
|-----------|----------------------------|--------------------|-----------------------------------|
| HCLSB16   | 13 (330)                   | 16 (454)           | 1 (25.4)                          |



HCLSB16

### Non-Marring Hammers

#### BFNM1 1 lb Non-Marring Mallet (Blue-Point®)

- The head of the mallet is non-marring on finished surfaces due to soft durometer material
- Durable, resin-rich "pull-truded" fiberglass handle
- Handle is UV and chemical resistant
- Less rebound than traditional rubber head mallets helps reduce operator fatigue
- Nonslip, cushion-grip handle



BFNM1

## BALL PEEN HAMMERS



BP16B

### Ball Peen (Hickory Handle)

Set Contains: BP1004S

| Stock No. | Weight, oz | Handle Length, inches | Replacement Handle |
|-----------|------------|-----------------------|--------------------|
| BP4B      | 4          | 10-1/2                | BPH4C              |
| BP8B      | 8          | 12-1/2                | BPH8C              |
| BP12B     | 12         | 13-1/2                | BPH12C             |
| BP16B     | 16         | 14-1/2                | BPH16C             |
| BP20B     | 20         | 15                    | BPH20C             |
| BP24B     | 24         | 16                    | BPH20C             |
| BP32B     | 32         | 16                    | BPH40C             |
| BP40B     | 40         | 16-1/4                | BPH40C             |
| BP48B     | 48         | 16-1/4                | BPH40C             |

ASME®/ANSI® B107.400



BPN16B

### Ball Peen (Fiberglass Handle)

| Stock No. | Weight, oz | Handle Length, inches | Replacement Handle | Previous Model Handle |
|-----------|------------|-----------------------|--------------------|-----------------------|
| BPN8B     | 8          | 11                    | BPNH8B             | BPN8-1                |
| BPN12B    | 12         | 12                    | BPNH12B            | BPN12-1               |
| BPN16B    | 16         | 13                    | BPNH12B            | BPN16-1               |
| BPN24B    | 24         | 14                    | BPNH24B            | BPN24-1               |
| BPN32B    | 32         | 16                    | BPNH24B            | BPN24-1               |

ASME®/ANSI® B107.400



- Do not use urethane hammers near liquid oxygen
- Do not strike another hammer or hardened object
- Do not use chipped, mushroomed or cracked hammer
- Strike squarely, avoid glancing blows
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## HEAVY DUTY HAMMERS (Blue-Point®)



HCB2SG



HCS2SG



BC4SG



BD4SG



HD4SG

### Dual Face Dead Blow (Fiberglass Handle)

- 100% cast polyurethane face is designed to withstand the most severe striking applications
- Non-sparking/non-marring brass face for multiple applications
- Nonferrous shot-loaded cavity delivers more power and less rebound than any hammer of its kind
- Abrasion-, chemical- and impact-resistant
- Comfortable nonslip handle grip

| Stock No. | Weight, lb (kg) | Face Dia., inches (mm) | Handle Length, inches (mm) | Length, inches (mm) |
|-----------|-----------------|------------------------|----------------------------|---------------------|
| HCB2SG    | 2 (.91)         | 2 (50.8)               | 10-5/8 (270)               | 13-3/4 (349)        |
| HCS2SG    | 2 (.91)         | 2 (50.8)               | 10-5/8 (270)               | 13-3/4 (349)        |

Meets or exceeds all ANSI® specifications

### Heavy-Duty (Fiberglass Handle)

- Handle is resistant to dry rot, warp and splintering
- Fiberglass handle dampens vibration and provides extra strength and safety
- Handle is epoxy welded to hammer head and will withstand 8,000 lb of separation force
- Comfortable nonslip handle grip
- Materials will resist most shop chemicals

| Stock No. | Description   | Weight, lb | Striking Face Dia., inches | Handle Length, inches | Overall Length, inches | Replacement Handle |
|-----------|---------------|------------|----------------------------|-----------------------|------------------------|--------------------|
| BC4SG*    | Cross Peen    | 4          | 1-1/2                      | 12                    | 14                     | BD4SG-1            |
| BD4SG*    | Engineer      | 4          | 1-1/2                      | 12                    | 14                     | BD4SG-1            |
| HD4SG     | Hand Drilling | 4          | 1-1/2                      | 8-3/4                 | 10-3/4                 | HD4SG-1            |

\*Blue-Point®



BH122D



BH133B



BH141A

### Heavy-Duty (Hickory Handle)

| Stock No. | Description   | Weight, oz | Head Length, inches | Overall Length, inches | Replacement Handle |
|-----------|---------------|------------|---------------------|------------------------|--------------------|
| BH122D    | Engineer      | 40         | 4-1/2               | 15                     | BPH40C             |
| BH123D    | Engineer      | 48         | 4-3/4               | 15                     | BPH40C             |
| BH133B    | Hand Drilling | 48         | 4-1/2               | 10                     | BPH133             |
| BH141A    | Cross Peen    | 32         | 4-1/2               | 15                     | BPH20C             |
| BH142A    | Cross Peen    | 40         | 5                   | 15                     | BPH40C             |
| BH143A    | Cross Peen    | 48         | 5-1/2               | 15                     | BPH40C             |



BD10ESG

### Sledge (Fiberglass Handle) (Blue-Point®)

| Stock No. | Weight, lb (kg) | Face Dia., inches (mm) | Handle Length, inches (mm) | Overall Length, inches (mm) | Replacement Handle |
|-----------|-----------------|------------------------|----------------------------|-----------------------------|--------------------|
| BD6ESG    | 6 (2.7)         | 1-5/8 (41.1)           | 16 (406.4)                 | 18 (457.2)                  | BD6ESG-1           |
| BD10ESG   | 10 (4.5)        | 2 (50.8)               | 29 (736)                   | 32 (812.8)                  | BD8ESG-1           |

### Soft Steel (Fiberglass Handle)


- Head is crafted with a maximum 30Rc hardness
- Designed to wear down and change shape with use; prevents damage or shearing when striking hard metal objects
- Ergonomic nonslip handle features a solid fiberglass core for strength
- Handle is resistant to weather and most shop chemicals
- Ideal for striking hardened pins, spikes, cutting tools and metal components
- Note: This hammer cannot be used as a non-sparking tool



BDS2SG

| Stock No. | Weight, lb (kg) | Head Diameter, inches | Handle Length, inches |
|-----------|-----------------|-----------------------|-----------------------|
| BDS2SG    | 2.2 (1)         | 1-7/16                | 13-1/2                |
| BDS4SG    | 4.2 (1.9)       | 1-7/16                | 13-1/2                |

# GENERAL HAND TOOLS



AS A TOOL COMPANY, YOU DON'T MAKE IT A CENTURY WITHOUT EXPANDING TO MEET THE NEEDS OF TECHNICIANS. WE'RE CONSTANTLY ADDING TO OUR EXTENSIVE RANGE OF TOOLS SO THAT YOU CAN CONTINUE ADDING TO YOUR OWN CAPABILITIES.

**WE DON'T JUST  
ADD TOOLS.  
WE ADD  
IMPROVEMENTS.**

In addition to pioneering many of the hand tools in this catalog, we've continued to refine every one of them. Today, our engineering and breadth of line still lead the industry. From files, scrapers, spark plug sockets and pullers to special service and heavy-duty tools, we make the right tool, in the right size and with the right features, for accomplishing any task.

## HACKSAWS



HSG325



HSG319



HS5A



HS151

### Hacksaws

#### HSG325 Soft Grip Professional Hacksaw

- Ergonomic front grip for increased comfort and control
- Thermoplastic comfort grip handle
- Spring-loaded tensioning mechanism for quick blade changes
- Dual blade positioning, for normal flush cutting or 55° angle
- High blade tension for straighter, more accurate and faster cuts
- Includes (1) blade

#### HSG319 Bi-Mold Soft Grip Handle Hacksaw

- Solid steel frame overmolded with soft grip for comfortable use
- Designed for 12" (300 mm) blades
- Blade tensioner discreetly blends with handle
- Positions for normal flush cutting or 55° angle
- Includes (1) blade

#### HS5A Miniature Hacksaw

- Designed for 10" (250 mm) blades
- 8-1/4" frame fits in limited-access areas
- Easy to handle
- Includes a 10" blade

#### HS151 Junior Frame Hacksaw

- Designed for 6" blades
- 9-1/2" long
- HSB632 blade included

#### HSB632 5-Pack 6" Replacement Blades

- 1/4" wide, 32 teeth per inch, 6" length

### Hacksaw Blades

- Shatter resistant bimetal for a long life and fast, efficient cutting
- Available in packages of 10 only

| Stock No. | Length, inches | Teeth Per Inch (TPI) |
|-----------|----------------|----------------------|
| HSBM1018B | 10             | 18                   |
| HSBM1024B | 10             | 24                   |
| HSBM1032B | 10             | 32                   |
| HSBM1214B | 12             | 14                   |
| HSBM1218B | 12             | 18                   |
| HSBM1224B | 12             | 24                   |
| HSBM1232B | 12             | 32                   |



HSKIT

### Quick Cutter Handsaws

#### HSKIT Handsaw Kit

- Ergonomic handle design reduces pressure points and stops hand from sliding
- Handle angle and the position of the handle to the blade teeth reduce sawing forces and increase efficiency
- High-quality aluminum body ensures rigidity and retaining/protecting locking mechanism
- Locking system helps reduce play between the handle and blade when assembled
- Easy access to the lever through handle opening
- Long lever for easy lock and release



HS50

### Quick Cutter Handsaws

- Features contoured screwdriver type handle for a secure grip
- Saw holder keeps a tight hold on any of the 3 included blades
- Turn the knurled knob and easily switch blades
- All components neatly packaged in CO417 kit bag

#### HS50 Quick Cutter Hand Saw

- Includes: HS14X1, HS18X1, HS24X1 and storage pouch

## LANDSCAPE TOOLS



PRN75SFS

### Pruning Tools

#### PRN75SFS Folding Pruning Saw

- General-purpose folding saw for cutting wood or plastics
- Two-component plastic handles for a firm grip
- Blade is specially coated for low-friction and rust protection
- Blade locks in both open and closed position

**Scissors**

**YA114 3" Stainless Scissors (Blue-Point®)**

- High-quality stainless steel
- Compact: 3" long



**Scissors**

**SHEARS1BK Snap-on® Exclusive Black Handle Shears**

- Cuts leather, cloth, plastic, rubber, cardboard, gasket material, rope and many other materials
- Bottle opener and nut cracker also incorporated into the design
- Stainless steel construction
- Easy to take apart for cleaning and is dishwasher safe

**SHEARS1RD Snap-on® Exclusive Red Handle Shears**

**SHEARS1-SH Snap-on® Leather Sheath**

- Made of high quality leather with Snap-on® logo embossed on the front
- Designed specifically for the Snap-on® exclusive SHEARS1RD and SHEARSBK
- Made in the USA



SHEARS1BK



SHEARS1RD



SHEARS1-SH

**CUTTING: KNIVES**

**SEK45 Series Specialty Knives**

- Titanium coated 440 stainless steel blade
- Ambidextrous thumbnail window on blade spine
- Composite handle with lanyard eyelet provides easy attachment to any keychain ring
- Ideal for everyday pocket carry
- 4.57" long in open position, 2.83" closed, 1.75" blade
- Weighs less than 1 oz

**SEK45BLK Compact Folding Lockback Knife**

**SEK45R Compact Folding Lockback Knife**



SEK45BLK



SEK45R

**Liner Lock Knives**

**KER1600SO Lockback Snap-on® Logo Chive Plain Blade Knife**

- Bead blasted stainless steel handle with Snap-on® logo
- Removable pocket clip
- 1-15/16" stainless steel straight-edge blade
- 1.9 oz

**KER1620RDSO Lockback Scallion Straight-Edge Blade Knife**

- Durable 6061-T6 anodized red aluminum handle with Snap-on® logo
- Stainless steel liners
- Safety tip lock
- Removable pocket clip
- 2-1/4" stainless steel straight-edge blade
- 2.3 oz

**KER1660CBSO Lockback Leek Composite Straight-Edge Blade Knife**

- 3" stainless steel straight-edge blade

**KER1660CKTSO Lockback Leek Straight-Edge Blade Knife**

- SpeedSafe® technology provides assisted opening
- 3" stainless steel straight-edge blade

**KER1600PNKSO Lockback Snap-on® Logo Chive Plain Blade Knife**

- Anodized pink handle with Snap-on® logo
- Removable pocket clip
- Bead-blasted stainless steel straight-edge blade
- Weighs 1.9 oz



KER1600SO



KER1620RDSO



KER1660CBSO



KER1660CKTSO



KER1600PNKSO



- Keep away from children
- Read safety precautions on pages W1 to W4

**CUTTING: KNIVES**



SEKC69FGSK



SEKC75FPSK



SEKC79FCKK



SEKC79FCSK



SEKC65XNKK



SEKC86XNKK

**SEKC Series**

**SEKC69FGSK Carbon Fiber Pocket Knife**

- Folding knife design is exclusive to Snap-on®
- Designed by world-renowned knife craftsman, Ken Onion
- One-layer carbon fiber is laminated to G10 for a super-strong handle and unique look
- Frame lock secures the blade in the open position and also allows for easy one-hand closing
- AUS 8 Japanese stainless steel for increased edge retention

**SEKC75FPSK Field Strip Snap-on® Knife**

- Snap-on® exclusive knife features “Field Strip” technology, in which the entire knife can be taken apart for cleaning and quick maintenance without any tools
- Bayonet lug-style flipper sets off the smooth open action of the stainless steel, drop-point blade
- Designed by world-renowned knife craftsman, Ken Onion

**SEKC79FCKK Carbon Fiber Ripple Black Ox Knife**

- Liner lock mechanism
- Flipper opening style
- Triple-point blade serration
- 8Cr13MoV stainless steel blade, HRC 58-60, G10 handle with carbon fiber overlay (4.375”)

**SEKC79FCSK Carbon Fiber Ripple Satin Knife**

- Liner lock mechanism
- Flipper opening style
- Razor-edge blade serration
- 8Cr13MoV stainless steel blade, HRC 58-60, G10 handle with carbon fiber overlay (4.375”)

**SEKC65XNKK Hunting/Skinning Knife**

- Exclusive Snap-on® design fixed blade hunting knife
- Designed by well known hunting and fishing guide, Russ Kommer
- Blade made of SK5 high carbon steel for excellent edge retention
- Powder coated blade for rust prevention
- Textured handle for positive grip in wet conditions
- Includes custom nylon sheath with belt attachment

**SEKC86XNKK Hunting Knife**



SEK80MNNK



SEK80MNSK

**SEK80 Series Knives**

**SEK80MNNK Relay Knife Black Blade**

- Exclusive Ken Onion® design
- Drop-point blade with combination edge
- Black corrosion resistant coating
- Rugged tire tread grip
- IKBS with flipper deployment
- Liner lock safety feature

**SEK80MNSK Relay Knife Satin Blade**

- Exclusive Ken Onion® design
- Drop-point blade style
- Satin-finish blade
- Rugged tire tread grip
- IKBS with flipper deployment
- Liner lock safety feature



S082BLK



S082BLU



S082CAMO



S082RD

**S082 Series Knives**

**S082BLK Snap-on® Knife**

- SpeedSafe® Assisted Opening with liner lock mechanism
- Modified Wharncliff blade shape made of N690 stonewashed steel
- Anodized aluminum handle with Trac-Tec inserts

**S082BLU Snap-on® Knife**

**S082CAMO Snap-on® Knife**

**S082RD Snap-on® Knife**



**S088 Series Specialty Knives**

- Equipped with a big, slight drop-point blade that offers both excellent slicing and piercing capabilities
- High-performance stainless steel blade offers excellent corrosion resistance and enhanced looks
- Lightweight machined 6061-T6 anodized aluminum handles, with Trac-Tec inserts, ensure extremely solid grip
- Equipped with SpeedSafe® Assisted Opening technology
- A short push on the index point overcomes the resistance built into the torsion bar in the mechanism

- SpeedSafe® knife technology takes over and the blade moves out of the handle quickly and easily
- Inset liner lock mechanism – an inset steel plate functions like a locking liner, in one side of the handle
- Upon blade deployment, the steel plate moves behind the blade securely locking it open without all the weight and bulk of full liners
- Includes reversible deep carry pocket clip so the knife can sit all the way down in the pocket

**S088BLK Dash Knife**  
**S0880 Dash Knife**  
**S088R Dash Knife**



**Multi-Tools**

**SMT97R Snap-on® Multi-Tool**

- **One-hand operation allow professionals to quickly address problems at hand**
- Snap-on® exclusive red Cerakote-finished handles for superior wear resistance
- Enhanced heavy-duty locking mechanism
- Proudly made in the USA by Gerber®, the industry leader in multi-tools
- Rotating carbide wire cutters and strippers can be rotated as the edge wears, and replaced when a fresh set is needed
- Replaceable Remgrit® blade is designed to be able to cut through extremely hard materials
- Extra-large partially serrated blade is ideal for cutting open packages and other items around the shop
- Tools are all black-oxide coated, providing superior corrosion resistance
- Complete listing of tools includes: pliers, carbide wire cutter, scissors, bottle opener, ruler stamped-in-handle, PHILLIPS®/flat head drivers, fine/coarse files, bottle opener, etc.
- Snap-on® logo is engraved into the handle and comes with a Snap-on® branded sheath (SEKG94-SH)



**Specialty Knives**

**SEK71FACB Lifeline Folding Knife**

- Russ Kommer folding liner lock design
- N690 Austrian stainless steel blade
- Assisted-opener kicker
- Ambidextrous stainless steel thumbstud
- Rubberized red anodized aircraft-grade alloy handle scales
- Reversible stainless steel pocket clip

**SEK71FACR Lifeline Folding Knife**



**SEK71MMKK Rave XL Knife**

- Exclusive Ken Onion design knife with Snap-on® branding on the blade
- Folding everyday carry pocket knife
- Nylon handle has textured thermoplastic rubber inserts for a positive grip
- Knife measures 6-7/8" open, 4-1/8" closed, and weighs 6.2 oz
- Blade length is 2-3/4"

**SEK71MMKR Rave XL Knife**

**SEK71MMKRK Rave XL Knife**



**SEK60MMKK Rave Black with Black Insert Knife**

- Rugged, textured grips
- High-quality blade steel
- Integrated flipper for fast opening
- Knife measures 5-15/16" open, 3-43/64" closed, and weighs 3.7 oz

**SEK60MMKR Rave Red with Black Insert Knife**

**SEK60MMKRK Rave Black with Red Insert Knife**



• Keep away from children  
 • Read safety precautions on pages W1 to W4

## CUTTING: KNIVES



SEK74MAKR



S084BLK



S084GRY



S084OL



S084R

## Specialty Knives

**SEK74MAKR Exclusive Ken Onion Designed Wrinkle Knives**

- Japanese AUS 8 high-carbon steel provides superior cutting performance and incredible edge retention
- Modified hollow-ground drop-point blade reduces resistance when cutting while the versatile blade shape is ideal for cutting, skinning and scraping
- Ambidextrous flipper and IKBS bearing system ensure smooth, fast opening without springs

## S084 Series Specialty Knives

**S084BLK HYPE Knife**

- SpeedSafe® Assisted-Opening enables smooth, easy one-hand opening
- Trac-Tec grip-in-handle is ideal for working in wet situations
- Deep carry clip allows knife to ride low in the pocket, making it less likely to fall out and keeps a low profile of visibility
- Clip can be changed for left-hand pocket carry

**S084GRY HYPE Knife****S084OL HYPE Knife****S084R HYPE Knife**

YA405A

## Hobby Knives

**YA405A Hobby Knife (Blue-Point®)**

- 5-1/2" long aluminum handle with bottom knurl and knurled brass nose cap
- Includes the following blades: YA405-1, YA405-2, YA405-3, YA405-4

**YA405-1 23° Angle Blade (Blue-Point®)**

- Use with YA405A hobby knife

**YA405-2 50° Angle Blade (Blue-Point®)**

- Use with YA405A hobby knife

**YA405-3 Curved Edge Blade (Blue-Point®)**

- Use with YA405A hobby knife

**YA405-4 Straight Chisel Edge Blade (Blue-Point®)**

- Use with YA405A hobby knife



KER1620FLSO



KER1620NBSO



KER1620OLSO



KER1660SO



KER1660ORSO



KER1660SWBKS

## Liner Lock Knives

**KER1620FLSO Lockback Scallion Frame with Snap-on® Logo**

- Blade is made with 420HC steel with a bead-blasted finish
- Handle is made with 410 steel with a bead-blasted finish
- Knife opens with a flipper
- Frame lock with tip lock
- Single-position pocket clip

**KER1620NBSO Lockback Scallion Navy Blue with Snap-on® Logo**

- Blade is made of 420HC steel with a bead-blasted finish
- Handle is made of 6061-T6 anodized aluminum
- Knife opens with a flipper
- Liner lock with tip lock
- Single-position pocket clip

**KER1620OLSO Lockback Scallion Olive with Snap-on® Logo****KER1660SO Lockback Leek Knife with Snap-on® Logo**

- Blade is made of Sandvik® 14C28N steel with a bead-blasted finish
- Handle is made of 410 steel with a bead-blasted finish
- Knife opens with a flipper
- Frame lock with tip lock
- Reversible pocket clip

**KER1660ORSO Lockback Kershaw® Orange Leek with Snap-on® Logo**

- Blade is made of Sandvik® 14C28N steel with a bead-blasted finish
- Handle is made of 6061-T6 anodized aluminum
- Knife opens with a flipper
- Liner lock with tip lock
- Reversible pocket clip

**KER1660RDSO Leek with Ratchet Clip****KER1660SWBKS Lockback Kershaw® Stonewash Leek with Snap-on® Logo**

**Liner Lock Knives**

**KER1670BLK Lockback Blur Straight-Edge Blade Knife**

- Anodized black aluminum handle
- SpeedSafe® assisted opening technology
- 3-3/8" straight-edge blade
- 4.2 oz



KER1670BLK

**KER1670BLKST Lockback Blur Partially Serrated Blade Knife**

**KER1670BLKSO Lockback Blur Knife Black with SO Logo**

- Blade is made of Sandvik® 14C28N steel with a DLC coating
- Handle is made of 6061-T6 anodized aluminum with Trac-Tec inserts
- Opens with thumb stud
- Inset liner lock
- Reversible pocket clip



KER1670BLKST



KER1670BLKSO

**KER1670RDBTS Lockback Blur Red/Black Serrated with Snap-on® Logo**

**KER1670TBLKT Lockback Blur Black Tanto Serrated with Snap-on® Logo**

**KER1870RDSO Knockout Knife with Snap-on® Logo**

- Blade is made of Sandvik® 14C28N steel with a stonewashed finish
- Handle is made of 6061-T6 anodized aluminum
- Opens with a flipper or thumb stud
- Sub-frame lock
- 4-position lock deep-carry pocket clip



KER1670RDBTS



KER1670TBLKT



KER1870RDSO

**KER1620 Lockback Scallion Black Handle Knife**

- Opens with a flipper
- Liner lock feature
- Single-position pocket clip



KER1620

**KER1776RDSO Link Snap-on® Stonewashed Aluminum Knife**

- Snap-on® branded, exclusive color
- 420HC steel drop-point blade with a stonewashed finish
- SpeedSafe® assisted opening system with liner lock
- Reversible pocket clip (left/right)
- Machined aluminum handle



KER1776RDSO

**KER1812RDSO Dividend Snap-on® Stonewashed Aluminum Knife**

- Snap-on® branded, exclusive color
- 420HC steel drop-point blade with a stonewashed finish
- SpeedSafe® assisted opening system with liner lock
- 4-position pocket clip (left/right, tip-up/down)
- Anodized aluminum handle



KER1812RDSO

CUTTING: UTILITY KNIVES

**S086 Series Specialty Knives**

**S086BLK Gasket Knife, Black**

- SpeedSafe® assisted opening enables smooth, easy one-hand opening
- Blade is made of black DLC-coated N690 steel
- Handle is made of T6061-T6 anodized aluminum
- Trac-Tec grip in the handle is ideal for working in wet situations
- Right- and left-handed carry
- Lanyard hole at end of the handle
- Available in six colors Red, Black, Blue, Bronze, Olive, Tan
- Knife length (closed): 4"; blade length: 2-5/8"



S086BLK

**S086BLU Gasket Knife, Blue**

**S086BRNZ Gasket Knife, Bronze**

**S086OL Gasket Knife, Olive**

**S086RD Gasket Knife, Red**

**S086TAN Gasket Knife, Tan**



S086BLU



S086BRNZ



S086OL



S086RD



S086TAN



- Keep away from children
- Read safety precautions on pages W1 to W4

## CUTTING: UTILITY KNIVES



UTK100



UTK100SB



UKBU50PK



UKBU10



LBUK1

### Specialty Knives

#### UTK100 Retractable Utility Knife

- **Retractable blade**
- Quick-release spring-loaded handle provides fast, sure blade changes
- Integrated hinge handle means no handle parts to lose and no tools required to change blades
- Rubber grip for comfort and control
- Three blade positions: open, half closed and closed
- Blade storage for up to five blades in the handle
- Lightweight anodized aluminum body for durability—thin design for comfort

#### UTK100SB Auto Retractable Utility Knife

- Auto retracting
- Quick-release spring-loaded handle provides fast, sure blade changes
- Rubber grip for comfort and control
- Includes one safety point two-notch blade

#### UKBU10 Double-Point Utility Knife Blades (10 pk)

- Two-notch double-point blades
- Use with UTK100, UTK100SB, UTK150, LBUK1 and LBUK2 utility knives

#### UKBU50PK Double-Point Blades (50 pk)

- Two-notch double-point blades
- Dispenser ejects one blade at a time
- Blade guard in the ejector
- Use with UTK100, UTK100SB, UTK150, LBUK1 and LBUK2 utility knives

#### YA1800A Single-Edge Razor Blades (100 pk) (Blue-Point®)

- 100 blades in a plastic dispenser
- Blades have aluminum backs that can be shaped for special applications

#### LBUK1 Lockback Utility Knife (Blue-Point®)

- Folding lockback blade, hardwood handle with belt clip and thumb stud for one-hand opening
- Includes utility knife and leather pouch plus (10) replacement blades
- Uses UKBU10 (10 pk) or UKBU50PK (50 pk) replacement blades



KER2535



SCKS1

### Sharpening Kits

#### KER2535 Blade Sharpener (Blue-Point®)

- Impregnated with 600 grit diamond coating bonded with nickel plating to a lightweight tube
- Excellent sharpener for the repair of extremely dull blades
- Length is 8-1/2" (20.3 cm)
- Sheath length is 5-1/2" (12.7 cm)

#### SCKS1 Carbide Knife Sharpener

- Two tungsten carbide sharpening elements secured to high-strength 6061 T6 aircraft aluminum S-shaped frame
- Fixed angle of sharpening elements creates fast, easy, optimal sharpening in just five strokes for most blades (except serrated)
- Replaceable sharpening elements
- Slip-resistant rubber base pads reduce the chance of the sharpener from slipping while sharpening a blade
- Light and compact—can carry in your pocket
- Attached ring allows it to be tethered from hooks, hangers, or key ring
- Lightweight 1.7 oz (0.05 kg)
- Compact, 2.2" L x 1.8" W x 0.25" D (55.9 x 45.7 x 6.4 mm)



UTK150

### Specialty Knives

#### UTK150 Auto-Loading Utility Knife

- Exposed blade is easily removed or reversed with the push of a button
- New blade is auto loaded from five-blade magazine
- Cushioned handle provides comfort and control
- Three blade positions: 1" and 1/4" exposures, and closed
- Uses standard two-notch replacement blades



YA580A



YA581A

### Multipurpose Cutters

#### YA580A Multipurpose Cutter (Blue-Point®)

- Auto-locking, fully retractable blade
- Black metal body with a blue cap and pocket clip
- Includes (1) premium steel 13-point snap blade
- Length is 5-3/8"
- Uses YA580A-1 replacement blades

#### YA580A-1 Multipurpose Cutter Replacement Blades (5 pk) (Blue-Point®)

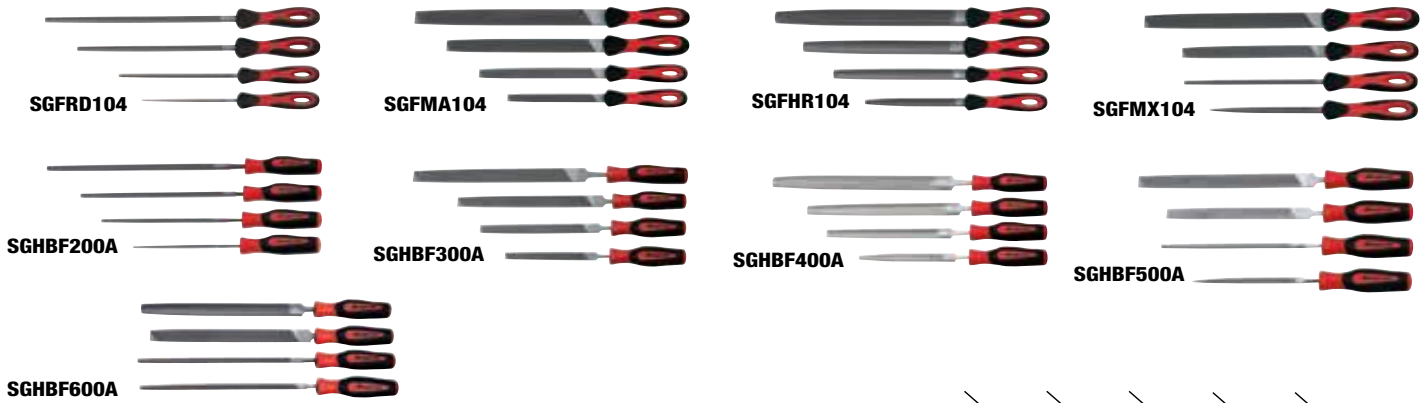
- Individual break-off replacement blades for the YA580A and YA584A multipurpose cutters

#### YA581A-1 Multipurpose Cutter Replacement Blades (10 pk) (Blue-Point®)

- Replacement blades for YA581A

#### YA581A Multipurpose Cutter (Blue-Point®)

- Includes (3) blades with eight snap-off points
- Minimum blade wobble
- Fully retractable



**Bastard Cut Individual Files**

Additional mill file sizes are also available.

|                   | Stock No. | Uses Handle | Diameter, inches | Overall Length, inches | Pattern    | Teeth Per Inch (TPI) | Set Contains: |          |          |          |            |            |            |            |            |   |  |  |
|-------------------|-----------|-------------|------------------|------------------------|------------|----------------------|---------------|----------|----------|----------|------------|------------|------------|------------|------------|---|--|--|
|                   |           |             |                  |                        |            |                      | SGFRD104      | SGFMA104 | SGFHR104 | SGFMX104 | SGHBF200A* | SGHBF300A* | SGHBF400A* | SGHBF500A* | SGHBF600A* |   |  |  |
| Round File        | 6R        | SGHF614BR   | 7/32             | 6                      | Double Cut | 33                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 8R        | SGHF614BR   | 9/32             | 8                      |            | 25                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 10R       | SGHF615BR   | 3/8              | 10                     |            | 23                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 12R       | SGHF616BR   | 1/2              | 12                     |            | 20                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | SGF6R     | —           | —                | 6                      |            | 33                   | •             |          |          |          |            |            |            |            |            |   |  |  |
|                   | SGF8R     | —           | —                | 8                      |            | 25                   | •             |          |          |          | •          |            |            |            |            |   |  |  |
|                   | SGF10R    | —           | —                | 10                     |            | 23                   | •             |          |          |          |            |            |            |            |            |   |  |  |
|                   | SGF12R    | —           | —                | 12                     |            | 20                   | •             |          |          |          |            |            |            |            |            |   |  |  |
| Mill File         | 6MA       | SGHF614BR   | —                | 6                      | Single Cut | 51                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 8MA       | SGHF615BR   | —                | 8                      |            | 46                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 10MA      | SGHF616BR   | —                | 10                     |            | 41                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 12MA      | SGHF617BR   | —                | 12                     |            | 36                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 14MA      | —           | —                | 14                     |            | 30                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | SGF6MA    | —           | —                | 6                      |            | 51                   |               | •        |          |          | •          |            |            |            |            |   |  |  |
|                   | SGF8MA    | —           | —                | 8                      |            | 46                   |               |          | •        |          | •          |            |            |            |            |   |  |  |
|                   | SGF10MA   | —           | —                | 10                     |            | 41                   |               |          | •        |          |            |            |            |            |            |   |  |  |
| Half-Round File   | 6HR       | SGHF614BR   | —                | 6                      | Double Cut | 33                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 8HR       | SGHF615BR   | —                | 8                      |            | 25                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 10HR      | SGHF616BR   | —                | 10                     |            | 23                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 12HR      | SGHF617BR   | —                | 12                     |            | 20                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | SGF6HR    | —           | —                | 6                      |            | 33                   |               |          |          | •        |            |            |            |            |            |   |  |  |
|                   | SGF8HR    | —           | —                | 8                      |            | 25                   |               |          |          | •        |            |            |            |            |            |   |  |  |
|                   | SGF10HR   | —           | —                | 10                     |            | 23                   |               |          |          | •        |            |            |            |            |            |   |  |  |
|                   | SGF12HR   | —           | —                | 12                     |            | 20                   |               |          |          | •        |            |            |            |            |            |   |  |  |
| Three Square File | 6T        | SGHF614BR   | —                | 6                      | Double Cut | 33                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | SGF6T     | —           | —                | 6                      |            | 33                   |               |          |          |          | •          |            |            |            |            |   |  |  |
|                   | 10T       | SGHF616BR   | —                | 10                     |            | 23                   |               |          |          |          |            |            |            |            |            |   |  |  |
| Four Square File  | 6SQA      | SGHF614BR   | —                | 6                      | Double Cut | 33                   |               |          |          |          |            |            |            |            |            |   |  |  |
|                   | 10SQA     | SGHF615BR   | —                | 10                     |            | 23                   |               |          |          |          |            |            |            |            |            |   |  |  |
| Instinct® Handles | SGHF614BR | —           | —                | —                      | —          | —                    |               |          |          |          |            | 2          | 1          | 2          | 2          |   |  |  |
|                   | SGHF615BR | —           | —                | —                      | —          | —                    |               |          |          |          |            | 1          | 1          | 1          | 1          | 2 |  |  |
|                   | SGHF616BR | —           | —                | —                      | —          | —                    |               |          |          |          |            | 1          | 1          | 1          | 1          | 2 |  |  |
|                   | SGHF617BR | —           | —                | —                      | —          | —                    |               |          |          |          |            |            | 1          |            |            |   |  |  |
| Kit Bag           |           |             |                  |                        |            | PAKKB069             |               |          |          |          | C0413B     |            |            |            |            |   |  |  |

File Types and Uses:  
 Round—Filing, deburring holes, concave surfaces  
 Mill—Deburring, filing flat surfaces, sharp corners (Note: Edges and flats of file have single cut ridges)  
 Half Round—Deburring, filing concave and flat surfaces, large holes  
 Three Square—Deburring, filing angles  
 Four Square—Filing grooves, rectangular and right angle corners, mortises  
 SGF Molded Handles can't be replaced  
 SGH Instinct Handles can be replaced

**Colors Available**

\* Red Orange Green  
 \* O G  
 ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



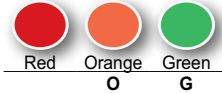
• Keep away from children  
 • Read safety precautions on pages W1 to W4

**FILES**



**SGFMN106**

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Miniature Files/Ergonomic Handle**

**6 pc Soft Grip Handle Miniature File Set**

- Ergonomic, two component non-slip grip prevents the hand from slipping onto the file blade
- Soft, textured surface for excellent grip
- Symmetrical handles allow use on both sides with the same level of comfort
- Files have a hole for hanging
- Includes (6) files in a vinyl storage pouch

Set Contains:

**SGFMN106**

| Stock No.     | Description            |   |
|---------------|------------------------|---|
| <b>SGF4HR</b> | Half-Round             | • |
| <b>SGF4MA</b> | Hand                   | • |
| <b>SGF4R</b>  | Round                  | • |
| <b>SGF4SQ</b> | Square                 | • |
| <b>SGF4T</b>  | Triangular, Slim Taper | • |
| <b>SGF4W</b>  | Warding                | • |



**HF611A**



**5NKB**



**5NSQB**

- |                         |                         |
|-------------------------|-------------------------|
| <b>5NRB</b> ● Round     | <b>5NTSC</b> ▲ 3-Square |
| <b>5NHRB</b> ◐ Half Rd. | <b>5NEB</b> ▬ Equaling  |
| <b>5NFB</b> ▬ Flat      | <b>5NBB</b> ▲ Barrette  |
| <b>5NCB</b> ◐ Crossing  | <b>5NJB</b> ◐ Joint     |
| <b>5NKB</b> ▲ Knife     | <b>5NSB</b> ◆ Slitting  |
| <b>5NSQB</b> ■ Square   | <b>5NMB</b> ◐ Marking   |



**HBFN120B**

**HBFN120B**

**Swiss Pattern Needle Files**

Set Contains:

| Stock No.     | Description                            |   |
|---------------|--|---|
| <b>5NBB</b>   | Barrette Swiss Pattern Needle File     | • |
| <b>5NCB</b>   | Crossing Swiss Pattern Needle File     | • |
| <b>5NEB</b>   | Equaling Swiss Pattern Needle File     | • |
| <b>5NFB</b>   | Flat Swiss Pattern Needle File         | • |
| <b>5NHRB</b>  | Half Round Swiss Pattern Needle File   | • |
| <b>5NJB</b>   | Joint Swiss Pattern Needle File        | • |
| <b>5NKB</b>   | Knife Swiss Pattern Needle File        | • |
| <b>5NMB</b>   | Marking Swiss Pattern Needle File      | • |
| <b>5NRB</b>   | Round Swiss Pattern Needle File        | • |
| <b>5NSB</b>   | Slitting Swiss Pattern Needle File     | • |
| <b>5NSQB</b>  | Square Swiss Pattern Needle File       | • |
| <b>5NTSC</b>  | Three Square Swiss Pattern Needle File | • |
| <b>HF611A</b> | Plastic File Handle                    | • |

**HBFN120B Swiss Pattern Mini File Set**

- Wide array of file patterns and shapes to cover most fine applications
- Comfortable handle with collet allows full interchangeability
- 5-1/2" long
- Supplied with a vinyl pouch

**HF611A Plastic File Handle**

- Plastic screwdriver collet-style handle for holding individual files in the HBFN120B Set



6T

### Three Square Files

#### 6T 6" Three Square File

- 6" long, 5-1/2" cut length

#### 10T 10" Three Square File

- 10" long, 9-1/2" cut length



6CR

### Chain Saw Files

#### 6CR 6" Single Cut Chain Saw File

- 6" long, 5/32–9/64" dia
- Uses HF611A file handle

#### 8CR 8" Single Cut Chain Saw File

- 8" long, 7/32–5/32" dia



10FMK

### Multi-Cut Flat File

#### 10FMK Multi-Cut Flat File

- 10" long
- Useful for all flat filing; high removal rate with smooth finish on most materials

## ACCESSORIES

### Soft Grip Handles

- For all bastard cut files that use replacement soft grip handle
- Feature twist-on threads for securely holding files

| Stock No. | For Files                                 | Thread Size |
|-----------|---|-------------|
| SGHF614BR | 4MA, 6CR, 6R, 6T, 6MA, 6HR, 8CR, 8R, 6SQA | 1/4-28      |
| SGHF615BR | 8T, 8MA, 8HR, 10R, 10SQA                  | 5/16-24     |
| SGHF616BR | 10T, 10MA, 10HR, 12R                      | 3/8-24      |
| SGHF617BR | 12MA, 12HR                                | 3/8-24      |



SGHF616BR

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### Plastic Adjustable Jaw Handle

#### GA98A Plastic Adjustable Jaw File Handle (Blue-Point®)

- Provides a large, comfortable grip for all bastard cut files
- Adjustable jaws grip the file so it cannot turn
- Used on files 4–16" long
- 4-1/2" long, 1" dia., 3/8" maximum opening



GA98A

### Wooden Twist-On Handles

- Wooden twist-on handles with case hardened, threaded-steel inserts
- Use on all bastard cut files on this page



GA616



YA337A

| Stock No. | For Files    |
|-----------|--------------|
| GA613     | 4MA, 8CR, 6R |
| GA614     | 6 Series     |
| GA615     | 8 Series     |
| GA616     | 10 Series    |
| GA617     | 12 Series    |
| GA618     | 14 Series    |

### File Brushes

#### YA337A File Cleaner Brush (Blue-Point®)

- Bristle area of 3-1/2 x 1-1/2" with .013" (33 gauge) wire
- Wooden handle
- 7-1/2" long

### Large Surface Scrapers

#### PKN90 Non-Marring Large Scraper

- Glass-reinforced nylon offers a great blend of flexibility and strength
- Non-marring composite material will not scratch soft metals, paint or composites
- Large handle for an easy grip
- Ideal for use on cylinder blocks or other large gasket mating surfaces
- Removes corrosion on flat metals (aluminum, steel, etc.) with suitable etch cleaners and rust removal solutions, primer preparation and cleaning
- Can be used with suitable chemicals, paint coatings, gel coats, etc.
- Ideal for lacquer/paint stripping and final smoothing on wood surfaces

#### PKNG90 Glass/Acrylic Large Scraper

- Designed for use on glass and acrylic surfaces
- Large handle for an easy grip
- Orange color visually identifies the difference from black nylon glass-filled products
- Works well when removing dirt/debris, windshield decals, adhesive mounts for mirrors, dealer stickers, tree sap, algae from fiberglass boats and window tinting



PKN90



PKNG90



- Keep away from children
- Read safety precautions on pages W1 to W4

## SCRAPERS AND PUTTY KNIVES



### Striking Scrapers

- Striking cap is designed for hammering
- Heavy-duty blade extends through the handle and meets the cap to equally distribute the striking force
- Thick, polished, high-carbon steel for durability
- Ergonomic soft grip handle for a secure grip when striking
- Can be used as a chisel or scraper

| Stock No. | Description  | Blade Width, inches | Set Contains: |         |
|-----------|--------------|---------------------|---------------|---------|
|           |              |                     | PKNC301       | PKNC300 |
| PKNC150   | Single Bevel | 1-1/2               |               | •       |
| PKNC125C2 | Dual Bevel   | 1-1/4               |               | •       |
| PKNC200   | Single Bevel | 2                   |               | •       |
| PKNC050   | Single Bevel | 1/2                 | •             |         |
| PKNC075C2 | Dual Bevel   | 3/4                 | •             |         |
| PKNC075   | Single Bevel | 3/4                 | •             |         |

### PKNC125C2 Dual Bevel Striking Scraper

- Dual bevel design for two distinct blade lengths
- Striking cap is designed for hammering
- Heavy-duty blade extends through the handle and meets the cap to equally distribute the striking force
- Thick, polished, high-carbon steel for durability
- Ergonomic soft grip handle for a secure grip when striking
- Can be used as a chisel or scraper



### Non-Marring Scrapers

- Tips are matched for most popular applications, including badge/emblem/decals removal, gasket and molding removal, adhesive removal, and dirt and debris removal or cleaning
- Glass-reinforced nylon provides strength
- Lightweight and resistant to most automotive fluids
- Useable with hammers (block end/tap into position)
- Avoid scratching or gouging of soft materials

| Stock No. | Blade Style                    | Blade Width, inches | Set Contains: |        |         |
|-----------|--------------------------------|---------------------|---------------|--------|---------|
|           |                                |                     | PKN500        | PSN500 | PPK300+ |
| PKN1      | Straight Blade                 | 7/8                 | •             |        |         |
| PKN2      | Straight Blade                 | 1-1/4               | •             |        |         |
| PKN3      | Curved Blade                   | 1-1/8               | •             |        |         |
| PKN4      | Angle Blade                    | 3/4                 | •             |        |         |
| PKN5      | Curved Blade                   | 5/8                 | •             |        |         |
| PKN7      | Curve Tube                     | 5/8                 |               | •      |         |
| PKN8      | 45° Non-Marring Cutter/Scraper | —                   |               |        |         |
| PKN9      | 3 mm Narrow Scraper            | —                   |               |        |         |
| PKN10     | Large Bill Nose Scraper        | 1                   |               |        |         |
| PKN12     | Large Diamond-Head Scraper     | 1-1/4               |               |        |         |
| PKN13     | Tube Scraper                   | 1-3/8               |               |        |         |
| PBN7      | Flat Fork                      | 1-3/8               |               |        |         |
| PBN10     | 90° L                          | 5/8                 |               | •      |         |
| PBN11     | Narrow Wedge                   | 5/8                 |               | •      |         |
| PBN12     | Curve Cup                      | 5/8                 |               | •      |         |
| PBN14     | Narrow Point                   | 5/8                 |               | •      |         |
| PBN15     | 90° Pry Tool                   | 1-1/4               |               |        |         |
| PPK15     | Pick                           | —                   |               |        | •       |
| PPK20     | Small Hook                     | —                   |               |        | •       |
| PPK25     | Large Hook                     | —                   |               |        | •       |
| Kit Bag   | —                              | —                   |               | C0100  | C0100   |

\*Includes storage pouch

### Rigid Carbon Scrapers

- 1/4" square shanks are flared to form scraping edge
- Classic screwdriver-type handle

| Stock No. | Length, inches | Blade Width, inches | Set Contains: |  |
|-----------|----------------|---------------------|---------------|--|
|           |                |                     | CSA300A*      |  |
| CSA12C    | 12-7/8         | 1                   | •             |  |
| CSA14C    | 14-1/8         | 1-1/2               | •             |  |
| CSA8C     | 7-5/8          | 7/8                 | •             |  |

### Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





# SCRAPERS AND PUTTY KNIVES



USS103



PPK300

PSN500

PPN300

PBN10

PBN11

## Knife Blade Scrapers (Blue-Point®)

- Remove gaskets, sealers and other caked-on materials
- Blade edge is designed to work effectively in both push and pull directions
- Stainless steel blades for durability
- Polished blades clean up easily
- Comfortable composite handles feature a contour thumb stop for maximum control and a wide hilt for control

| Stock No. | Blade Style | Blade Length, inches | Length, inches | Set Contains: |
|-----------|-------------|----------------------|----------------|---------------|
| US710     | Spoon       | 3-3/8                | 8              | •             |
| US711     | Chisel Tip  | 2-1/2                | 7-1/8          | •             |
| US712     | Oyster      | 2-1/8                | 6-3/4          | •             |

USS103

## Non-Marring Tools

| Stock No. | Description                              | Set Contains: | PPK300 | PSN500* | PPN300 |
|-----------|--|---------------|--------|---------|--------|
| PBN10     | 90° L                                    |               |        | •       |        |
| PBN11     | Narrow Wedge                             |               |        | •       |        |
| PBN12     | Curve Cup                                |               |        | •       |        |
| PBN14     | Narrow Point                             |               |        | •       |        |
| PBN15     | 90° Pry Tool                             |               |        |         |        |
| PKN7      | Curve Tube                               |               |        | •       |        |
| PKN9      | 3 mm Narrow Scraper                      |               |        |         |        |
| PKN10     | Large Bill Nose Scraper                  |               |        |         |        |
| PKN12     | Large Diamond-Head Scraper               |               |        |         |        |
| PKN13     | Tube Scraper                             |               |        |         |        |
| PPK15     | Pick                                     |               | •      |         |        |
| PPK20     | Small Hook                               |               | •      |         |        |
| PPK25     | Large Hook                               |               | •      |         |        |
| PPN1030   | 7" Dual Tip Narrow Prying/Smoothing Tool |               |        |         | •      |
| PPN2040   | 7" Medium Dual Tip Prying/Smoothing Tool |               |        |         | •      |
| PPN4050   | 7" Wide Dual Tip Prying/Smoothing Tool   |               |        |         | •      |

\*Includes storage pouch

## Putty Knives/Scrapers (Blue-Point®)

- Full-length steel blades for strength and durability
- Soft molded rubber handles provide a sure grip and are resistant to most solvents

| Stock No. | Blade Length, inches | Blade Width, inches | Blade Style  | Edge         | Set Contains: |
|-----------|----------------------|---------------------|--------------|--------------|---------------|
| PK50A     | 3-1/2                | 2                   | Flexible     | Straight     | •             |
| PK52A     | 3-19/32              | 1-1/4               | Flexible     | Straight     | •             |
| PK53A     | 3-19/32              | 1-1/4               | Stiff Chisel | Single Bevel | •             |

Set Contains:

PK500A



PK500A

## Brass Putty Knives/Scrapers (Blue-Point®)

- Spring-tempered solid-brass blades are non-marring, non-sparking, nonmagnetic and noncorrosive
- Soft molded rubber handles provide a sure grip and are resistant to most solvents
- Flared neck design helps protect against hand slipping during use
- Stiff blade style

| Stock No. | Handle Length, inches | Blade Length, inches | Blade Width, inches | Blade Style | Edge         | Set Contains: |
|-----------|-----------------------|----------------------|---------------------|-------------|--------------|---------------|
| PKB50A‡   | 4-7/8                 | 3-1/2                | 2                   | Stiff       | Straight     | •             |
| PKB52A‡   | 4-7/8                 | 3-19/32              | 1-1/4               | Stiff       | Straight     | •             |
| PKB53A‡   | 4-7/8                 | 3-19/32              | 1-1/4               | Stiff       | Single Bevel | •             |

Set Contains:

PKB500A‡



PKB500A

## Walnut Handle Scrapers (Blue-Point®)

- Quality crafted for hard scraping applications
- Walnut wood handle for comfort
- Full-length heavy-duty blades for strength
- Large steel cap for striking capability
- Remove gaskets, sealants and body weld breakaway

| Stock No. | Blade Length, inches | Blade Width, inches | Blade Style | Edge   | Length, inches | Set Contains: |
|-----------|----------------------|---------------------|-------------|--------|----------------|---------------|
| PKWLR53A  | 5-1/2                | 1-1/4               | Straight    | Chisel | 9-1/2          | •             |
| PKWSS53A  | 2-3/4                | 1-1/4               | Straight    | Chisel | 6-3/4          | •             |
| PKWBS53A  | 3-3/8                | 1-1/4               | Angled      | Chisel | 7-1/8          | •             |

Set Contains:

PKWHD53A



PKWHD53A



‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## SCRAPERS AND PUTTY KNIVES



PK23A

### Maple Handle Putty Knife (Blue-Point®)

- Mirror-finish hardened-steel blade extends through the hardwood handle, solidly riveted for durability
- Maple handle has a metal bolster where the handle meets the blade

| Stock No. | Handle Length, inches | Blade Width, inches | Blade Style  | Edge         |
|-----------|-----------------------|---------------------|--------------|--------------|
| PK23A     | 3-7/8                 | 1-1/4               | Heavy Chisel | Single Bevel |



CS1

### Scrapers

#### CS1 Flexible Wire Carbon Scraper (Blue-Point®)

- (10) blades made of oil-tempered spring steel
- Sliding ferrule is used to adjust to the required flexibility



PK70

#### PK70 Multipurpose Scraper (Blue-Point®)

- Used for gasket removal, deburring, car body work and rust removal
- Durable tungsten-carbide blades
- Ergonomic handle reduces fatigue
- Thumb grip allows precision scraping



MS400A

#### PK70DROP Replacement Drop Blade (Blue-Point®)

#### PK70PEAR Replacement Pear Blade (Blue-Point®)

#### PK70ROUND Replacement Round Blade (Blue-Point®)

#### PK70TRI Replacement Triangular Blade (Blue-Point®)



MS800

#### MS400A 4" Compact Scraper (Blue-Point®)

- Removes stickers, molding paint and decals
- Used with standard, single-edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage



MS1300

#### MS800 8" Standard Scraper (Blue-Point®)

- Removes stickers, molding paint and decals
- Use with standard, single edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage



MS3000

#### MS1300 13" Long Scraper (Blue-Point®)

- Removes stickers, molding paint and decals
- Use with standard, single edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage



PKRS1

#### MS3000 Scraper Set (Blue-Point®)

- Includes MS400, MS800, MS1300 and MSRPACK5 in a storage case

#### PKRS1 Ergonomic Grip Razor Scraper (Blue-Point®)

- Three blade positions: closed, open and loading
- Rubberized contour grip provides comfort and a sure gripping surface
- Uses YA1800 Replacement Blades

## EXHAUST, CUTTERS, EXPANDERS AND SPECIAL TOOLS (Blue-Point®)



VGP18210

### Cutters

#### VGP18210 Chain Pipe Cutter (Blue-Point®)

- Quickly and easily cuts exhaust pipes with 13 alloy cutting wheels in the chain
- Cuts stainless steel, copper and PVC piping from 15–75 mm (19/32–2-15/16") in diameter, up to 2.6 mm (3/32") wall thickness
- Locking mechanism helps avoid lateral movement and misaligned cutting
- Large butterfly screw allows application of greater force to the cutting wheels with each series of cut



TC90A

#### TC90A Tailpipe Cutter (Blue-Point®)

- Handles cutting from 3/4–3-1/2" dia
- 16-link cutter chain is 12" long
- Threaded shaft with cross piece provides elasticity to help prevent the chain wheels from breaking
- Ideal for cutting the strut assembly to enable servicing of the strut cartridge

#### TC90A1 Chain Assembly (Blue-Point®)

- Includes one wheel and one roll pin

# EXHAUST, CUTTERS, EXPANDERS AND SPECIAL TOOLS (Blue-Point®)

## Exhaust Tools

### YA1300 Manifold Jack (set of 2) (Blue-Point®)

- Used to expand the manifold to its original shape and bolt hole alignment
- Used with a 3/4" open end wrench

### YA3202 † Exhaust Hanger Removal Pliers (Blue-Point®)

- Removes hanger brackets from rubber mounting straps by placing jaw behind rubber grommet ring and forcing pin of pliers on the end of the steel hanger
- When handles are squeezed, the forcing pin pushes the ring off the hanger
- 14" long



## Expanders

### PH800 Tailpipe Expander with Collets (Blue-Point®)

- Simple and convenient set for tailpipe expansion jobs
- Using an impact wrench the pipe stretcher is a convenient, inexpensive alternative to a hydraulic pipe expander
- Can be used right on the vehicle
- Includes PH300 and (5) aluminum collets
- Expands from 1-5/8-4-1/4"
- Includes molded storage case

### PH300 Tailpipe/Exhaust Stretcher (Blue-Point®)

- Stretches all types of exhaust pipe, including stainless steel, from 1-5/8-2-7/16"
- Used with an impact wrench



## TUBING, CUTTERS, FLARING AND BENDING



TC123C



TC123CRH



TC15A



TC25A



TC28C

## Cutters

### TC123C Tubing Cutter (Blue-Point®)

- Handles tubing from 1/8-5/8" O.D.
- Can be used where clearance around tubing is less than 1-3/8"
- 1-1/2" long when closed and 2" long when open; feed knob is 7/8" in diameter

### TC123C1 Cutting Wheel

- Extra cutter wheel for TC123C Tubing Cutter

### TC123CRH Ratcheting Tube Cutter Handle (Blue-Point®)

- Handle for TC123C Tubing Cutter

### TC15A Ratcheting Tube Cutter

- Ratchet action allows cutting all the way around the tubing by simply pumping the handle

- Handles 1/8-3/8" O.D. copper, plastic and PVC tubing
- Ideal for fuel, vacuum and air conditioning applications
- 3-7/8" long

### TC15-7C Cutting Wheel

- Standard replacement cutting wheel for TC15A Ratcheting Tubing Cutter

### TC15-HSS Small Cutting Wheel

- High-speed steel cutting wheel

### TC25A Ratcheting Tubing Cutter (Blue-Point®)

- Designed for automotive, plumbing, air conditioning, marine, chemical laboratories, refineries and hydraulic industries
- Cuts steel, copper, brass, aluminum, plastic and PVC sizes 5/16-1-1/8" dia

- Ratcheting tubing cutter with unique spring-loaded action mechanism allows one or two tightening adjustments to complete the cut in very hard-to-reach places
- High-impact fiberglass handle is strong and lightweight

### TC28C Tubing Cutter (Blue-Point®)

- Cuts soft metal tubing ranging from 1/8-1" in diameter
- Handles 1/8-1-1/8" O.D. capacity
- Micrometer-type adjustment
- Retractable locking reamer blade
- Cutter wheel is easily replaceable

### TC28C1 Cutting Wheel

- Extra cutter wheel for TC28C tubing cutter

## Universal Hydraulic Flaring Tool Set

### TF600-2 Flaring Adaptor (5/16") (Blue-Point®)

- 5/16" flaring adaptor for push connect flares

### TF600-3 Flaring Die Set (5/16") (Blue-Point®)

- 5/16" flaring die set for push connect flares

### TF600-4 Flaring Adaptor (3/8") (Blue-Point®)

- 3/8" flaring adaptor for push connect flares

### TF600-6 Flaring Adaptor (1/4") (Blue-Point®)

- 1/4" flaring adaptor for push connect flares

### TF600-7 Flaring Die Set (1/4") (Blue-Point®)

- 1/4" flaring die set for push connect flares

### TF7001 GM® Fuel Adaptor (5/16") (Blue-Point®)

- 5/16" GM® Fuel Line Adaptor

### TF7002 GM® Fuel Die Set (5/16") (Blue-Point®)

- 5/16" GM® Fuel Line Die Set

### TF7003 GM Fuel Adaptor (3/8") (Blue-Point®)

- 3/8" GM® Fuel Line Adaptor

### TF7004 GM Fuel Die Set (3/8") (Blue-Point®)

- 3/8" GM® Fuel Line Die Set



- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## TUBING, CUTTERS, FLARING AND BENDING



TBS100



TBS200A



TBS300

### Bending Tools

#### TBS100 Tubing Bender (Blue-Point®)

- Bends tubing up to 1/4" O.D.
- Bends copper, brass, Bundy weld, non-coated brake lines and more
- Comfort grip handle
- 7" long

#### TBS200A Multipurpose Tubing Bender (Blue-Point®)

- Makes left, right or offset bends up to a 90° angle
- Degrees shown on tool for accurate bends
- Handles 3/16, 1/4, 5/16 and 3/8" (4, 6 and 8 mm) O.D. aluminum, copper and stainless steel tubing
- Aluminum unit is 8-1/4" long when opened

#### TBS300 Tubing Bender (Blue-Point®)

- Easily bend 1/4, 5/16 and 3/8" O.D. soft copper or aluminum tubing up to 180°
- Degrees, in 15° increments, shown on tool for accurate bends
- Pull lever to easily disengage the tool after bending
- Cushioned handles provide comfort and control, even with greasy hands
- Offset handles provide hand clearance when making 180° bends
- Lightweight die-cast aluminum construction
- 10-1/2" long

## TUBING: FLARING AND BENDING



TF528D



TF5A



TFM5A



TF275A



TFM428



TFL500



TFL800



TFLM800

### Flaring Tool Sets (Blue-Point®)

#### TF528D Tube Cutting and Double Flaring Set (Blue-Point®)

- Includes a tubing cutter, double flaring set with a flaring bar, rod handle, yoke and (5) adaptors (3/16, 1/4, 5/16, 3/8 and 1/2")
- Includes a storage case

#### TF5A † Double Flaring Tool Set (Blue-Point®)

- Makes double or single flares on soft steel, brass or aluminum tubing from 3/16–1/2" O.D.
- Makes a smooth fitting, crack-free 45° flare
- Set includes (5) adaptors, a yoke assembly, bar assembly and handle
- Storage case included

#### TFM5A † Metric Double Flaring Tool Set (Blue-Point®)

- Same design as TF5A except for tubing with a O.D. from 4.75–10 mm
- Set includes a yoke, bar assembly, handle and (5) adaptors (4.75, 5, 6, 8 and 10 mm)

#### TF275A Flaring and Swaging Set (Blue-Point®)

- 45° flare or swage soft copper, brass or aluminum tubing
- Die blocks handle 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4" O.D. tubing
- Swages 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4" O.D. tubing
- Includes TF275PB Storage Case

#### TFM428 Metric Bubble Flaring Set (Blue-Point®)

- For automotive brake systems
- Designed for crack-free bubble flares on soft wall tubing up to a .028" wall thickness
- Adaptors included for 4.75, 6, 8 and 10 mm flares
- Includes TFM428PB storage case

#### TFL20MK † Master Inline Flaring Kit (Blue-Point®)

- Unique design locks the adaptors, cone, and tube in a perfect line to help make perfect factory flares every time

- Clamp and set screws put pressure directly over the tube, greatly reducing the chance of the tube slipping from the clamp; increases the overall life of the clamp by not wearing down the teeth inside from repeated slipping
- Slender low-profile design allows the user to make flares on the vehicle in tight spaces
- Flares can be achieved along the frame rails or areas in the engine compartment, saving the user time from having to remove components or complete lines to make repairs
- Kit includes the constant tension tubing cutter

#### TFL500 † Flaring Kit (Blue-Point®)

- Used with a ratchet to make consistent flares faster and easier
- Makes double flares on 3/16" and 4.75 mm tubing
- Low-profile design allows for use on or off the car
- Inline design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin-walled steel and copper tubing

#### TFL800 † Flaring Kit (Blue-Point®)

- Used with a ratchet to make consistent flares faster and easier
- Makes double flares on 3/16" and 4.75 mm tubing
- Low-profile design allows for use on or off the car
- Inline design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin-walled steel and copper tubing

#### TFLM800 † Flaring Kit (Blue-Point®)

- Used with a ratchet to make consistent flares faster and easier
- Makes double flares on 4.75, 5, and 6 mm tubing
- Low-profile design allows for use on the car or off
- Inline design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin-walled steel and copper tubing



## Boot Pliers

### YA824C Spark Plug Boot Pliers (Blue-Point®)

- 45° offset jaws
- Vinyl-coated jaws and handles assure gripping ability
- Used only on automotive type ignition systems
- 9-1/2" long

### YA824ASTR Boot Pliers (Blue-Point®)

- Straight jaw version of YA824C
- 9-3/4" long

### SBP5 Boot Pliers (Blue-Point®)

- Five positions for easy access to restricted spark plugs
- Internal spring keeps pliers in the open position
- Vinyl-coated jaws and handles
- Black industrial finish
- 10" long

### SBP3 Boot Pliers (Blue-Point®)

- Vinyl-coated offset jaw tips will pull most US and import spark plug boots, including the back plugs on late-model Porsche® and Mercedes-Benz® vehicles
- Vinyl-covered handles are cushioned for comfort

### YA8230 Valve Stem Seal Pliers (Blue-Point®)

- Removes valve stem seals from overhead camshaft engines, including four valve-per-cylinder engines that have restricted access to the valve stem seal
- Gripping serrations in the pliers tip easily grab both OEM and aftermarket seals with ease
- Easy-grip handles

## Porcelain Extractors

### FSPPRK Porcelain Extractor Set

- Used in combination with the FSPK Spark Plug Extractor set on Ford® vehicles to remove any porcelain left behind from the process of extracting the plug
- Tool does not push the porcelain through the sleeve, preventing engine damage
- Four cylinders can be worked on at one time to save time and money
- Set includes porcelain repair kit for use on Ford® vehicles, pins (10 pk), special Loctite® 680 adhesive (5 mL) to remove broken porcelain, clean out wire and blow-molded storage case
- Applications (engines covered): 4.6 L V8 2005–2008 (Ford® Mustang®, Explorer®, Mercury® Mountaineer®); 5.4 L V8 2004–2008 (Ford® F-150, F-250 Super-Duty, F-350 Super-Duty, E-450 Super-Duty, Expedition, Lincoln® Navigator®, Mark LT); 6.8 L V-10 2005–2008 (Ford® F-250 Super-Duty, F-350 Super-Duty, F-450 Super-Duty, F-550 Super-Duty, E-450 Super-Duty, E-450 Econoline®)

### FSPPRK1 ‡ Porcelain Repair Kit for Ford® Vehicles

- Includes washer, center screw, guide, hex nut and end nut

### FSPPRK2 Pins (10 pk)

- (10 pk)

### FSPPRK3 Loctite® 680

- 5 mil

### FSPPRK4 ‡ Clean Out Wire

- Cleans hole

### FSPPRKPB Storage Case (Blue-Point®)

## Spark Plug Extractors

### FSPK ‡ Spark Plug Extractors

- Removes broken spark plugs from the cylinder head on Ford® Triton 5.4 L three-valve engines, 4.6 L engines and 6.8 L engines without removing the head

| Stock No. | Description            | Set Contains: |
|-----------|------------------------|---------------|
| FSPK1 ‡   | Barrel                 | •             |
| FSPK2 ‡   | Threaded Shaft         | •             |
| FSPK3     | Nut                    | •             |
| FSPK4     | Thrust Washer          | •             |
| FSPK5 ‡   | Vinyl Cap              | •             |
| T910M     | M9-1 Metric Thread Tap |               |

Optional Tap Holder TDL8-10



## Spark Plug Tools

### SPRTLM203 ‡ 3 pc 3/8" Drive Metric Spark Plug Rethread Kit

- 8" length eliminates the need for extensions, allowing for a more positive feel while reducing the chance of cross-threading
- Eliminates the possibility of dropping the tool into the cylinder head
- Services all major vehicle platforms using 12, 14, and 16 mm spark plugs
- Taps feature a 5/8" hex head and a 3/8" square drive

### SPRTLM12 ‡ 3/8" Drive 12 mm Metric Spark Plug Rethreader

### SPRTLM14 ‡ 3/8" Drive 14 mm Metric Spark Plug Rethreader

### SPRTLM16 ‡ 3/8" Drive 16 mm Metric Spark Plug Rethreader



• ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## SPARK PLUG SERVICE TOOLS



### Spark Plug Tools

#### YA832A Spark Plug Firing Indicator (Blue-Point®)

- Test spark plugs, coils and distributors on breaker point and electronic ignition systems
- Blunt nose tip prevents lead puncturing
- High-intensity bulb and viewing window for greater flash concentration
- 4-3/4" long

#### YA840 In-Line Spark Tester (Blue-Point®)

- Quickly diagnoses ignition systems
- Works on all ignition systems including the distributorless type
- Status of indicator light shows if a problem exists in the ignition system or fuel system

#### HB5PK Spark Plug File Set

- Fine, single-cut tungsten file for smoothing or cleaning spark plug and other contact points
- Includes (2) HB5 spark plug files

#### FRT10 † Spark Plug Insert Installer Set (Blue-Point®)

- Repairs damaged heads from blown spark plugs with an alloy steel insert in as little as 15-45 minutes
- Services modular cylinder heads on 4.6 L, 5.4 L and 6.8 L Ford® vehicles
- Set includes tap, core drill, guide, storage case, instructional DVD and spark plug insert

#### FRT12 † Three-Valve Insert Kit for Ford® Vehicles (Blue-Point®)

- Repairs cylinders without removing the head
- Custom guide, tap and drill for quick and simple repair of damaged threads
- Unique insert installer makes the job quick and easy
- Works on three-valve 5.4 L and 6.8 L engines built before 10/9/2007
- Also works on three-valve 4.6 L engines built before 11/30/2007 found on many 2004-2008 Ford®, Lincoln® and Mercury® vehicles
- Set includes tap, core drill, guide, insert installer, insert and storage case

#### YA6845 Spark Plug Boot Remover

- For use on ripped or stuck spark plug boots
- Easily saves time, especially when the spark plug is in a recessed or confined area where vision is limited
- Made from high-quality heat-treated steel
- High-tech black finish

#### S9714MKDMAG 3/8" Drive 12-Point Metric 14 mm Flank Drive®

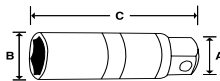
##### Magnetic Spark Plug Socket

- Spark plug extends through the socket for access in tight quarters
- Magnetic retention offers smooth release and will not wear out
- Side through-hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15-25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life
- Knurled surface for finger tightening and removal

## FLANK DRIVE® SPARK PLUG SOCKETS



S9721A



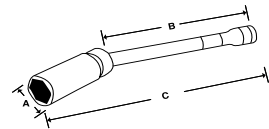
### 3/8" Drive Double Swivel Universal

- Used for rear spark plug removal or installation on transverse V6 engines

| #   | 6      | C       | Rubber Insert |
|-----|--------|---------|---------------|
| 5/8 | S9721A | 4-13/16 | S9706KARI     |



FSXK320A



### 3/8" Drive Flexible Extensions

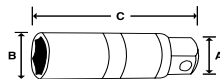
| #   | 6        | B       | C       | Rubber Insert |
|-----|----------|---------|---------|---------------|
| 5/8 | FSXK320A | 2-15/32 | 5-11/32 | S9706KARI     |



S9706KFUA



S9706KFUAMAG



### Universal

| #      | 6            | A   | B     | C       | Rubber Insert |
|--------|--------------|-----|-------|---------|---------------|
| 13/16" | S9704KFUA    | 3/8 | 13/16 | 3-9/16  | S9705A2       |
| 5/8"   | S9706KFUA    | 3/8 | 5/8   | 3-23/32 | S9706KARI     |
| 14 mm  | S9714MKFUA   | 3/8 | 25/32 | 3-1/8   | S9714MK-2     |
| 9/16"  | S9716KFUA    | 3/8 | 3/4   | 2-15/16 | S9714MK-2     |
| 5/8    | S9706KFUAMAG | 3/8 | 27/32 | 3-3/4   | —             |



S9710KC

### Ball Joint Swivel

| #     | 6       | C       | Rubber Insert |
|-------|---------|---------|---------------|
| 13/16 | S9709KB | 3-25/32 | S9705A2       |
| 5/8   | S9710KC | 3-25/32 | S9706KARI     |



S9706KMAG

### Magnetic

| #     | 6          | B      | C       |
|-------|------------|--------|---------|
| 9/16  | S9716KLMAG | 25/32  | 5-7/8   |
| 5/8   | S9706KMAG  | 27/32  | 2-27/32 |
| 13/16 | S9704KMAG  | 1-1/16 | 2-11/16 |
| 14    | S9714MKMAG | 19.55  | 56.38   |

# FLANK DRIVE® SPARK PLUG SOCKETS



S9716KR



S9706KRFUA



S9704KR



S9714MKR

## Retention

- Patented tapered hex design securely retains spark plug in socket without rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the plug in the center to avoid damage to the porcelain (US Patent #6,626,067)
- Spark plug is easily disengaged by applying gentle side pressure
- Spark plug extends through the socket for access in tight quarters
- Side through hole for secure extension retention for coil on plug applications
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats which deliver 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold-formed for extended tool life
- Knurled surface for finger tightening/removal
- External hex on standard models for restricted-access applications

| #      | 6          | A     | B       | C       |
|--------|------------|-------|---------|---------|
| 9/16"  | S9716KR    | 5/8   | 25/32   | 2-3/8   |
| 5/8"   | S9706KRFUA | N/A   | 27/32   | 3-3/4   |
| 5/8"   | S9706KRA   | 11/16 | 27/32   | 2-7/8   |
| 13/16" | S9704KR    | 7/8   | 1-1/16  | 2-27/32 |
| 14 mm  | S9714MKR   | 16 mm | 19.6 mm | 60.3 mm |

ANSI® B107.34M

### S9704KR 3/8" Drive 6-Point SAE 13/16" Flank Drive® Standard Retention Spark Plug Socket

- Applications include the removal and installation of 13/16" spark plugs

### S9706KRA 3/8" Drive 6-Point SAE 5/8" Flank Drive® Standard Retention Spark Plug Socket

- Applications include 4.7 L engines used on Jeep® Commander and Grand Cherokee®, RAM®, Durango® and Dakota® plus Chrysler® Aspen® vehicles, plus general applications on autos, light trucks, motorcycles and power equipment

### S9706KRFUA 3/8" Drive 6-Point SAE 5/8" Flank Drive® Universal Retention Spark Plug Socket

- Applications include 4.7 L engines used on Jeep® Commander and Grand Cherokee®, RAM®, Durango® and Dakota® plus Chrysler® Aspen® vehicles, plus general applications on autos, light trucks, motorcycles and power equipment

### S9714MKR 3/8" Drive 6-Point Metric 14 mm Flank Drive® Retention Spark Plug Socket

- Applications include 14 mm spark plugs used in Nissan® 1.8 L Versa® and 2.0 L Sentra®, Mercedes® and BMW® vehicles

## Special Application

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- 5/8" offset spark plug socket for limited-access situations
- Side through-hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life

### S9723 3/8" Drive 12-Point SAE 5/8" Flank Drive® Offset Spark Plug Socket

- Knurled surface for finger tightening and removal

### S9704RHS 3/8" Drive 6-Point SAE 13/16" Flank Drive® Low-Profile Spark Plug Socket

- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis
- Knurled surface for finger tightening and removal

### S9724RHS 3/8" Drive 6-Point SAE 5/8" Flank Drive® Low-Profile Spark Plug Socket

- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis



S9723



S9704RHS



S9724RHS

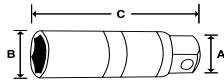
### OGS1528 1/2" Drive 6-Point SAE 7/8" Spark Plug Socket

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- Retaining ring holds the spark plug in the socket to aid in removal and installation
- Used for removing and installing spark plugs on large Waukesha® Engine Generators



- Do not use chrome or industrial finish hand tools with impact drivers
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# FLANK DRIVE® SPARK PLUG SOCKETS



S9706KA



S6106KA



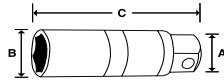
S9711KA



S9714MKL



S9714MK



S9714MKDFUA



S9720KA

## Standard, inches

|       |         | A   | B     | C       | Rubber Insert |
|-------|---------|-----|-------|---------|---------------|
| 9/16  | S9716KA | 5/8 | 23/32 | 2-1/8   | S9714MK-2     |
| 3/4   | S9718KA | 3/8 | 31/32 | 2-13/32 | S9705A2       |
| 13/16 | S9704KA | 3/8 | 7/8   | 2-3/4   | S9705A2       |
| 7/8   | S6106KA | 3/8 | 7/8   | 3-13/64 | S6106-2R      |

ASME®/ANSI® B107.34M  
Designed for aircraft applications

## Standard, mm

|    |          |           | A      | B    | C     | Rubber Insert |
|----|----------|-----------|--------|------|-------|---------------|
| 18 | S9711KA  | —         | 11/16" | 24.3 | 66.9  | S9706KARI     |
| 14 | —        | S9714MK   | 16.0   | 19.6 | 149.2 | S9714MK-2     |
| 14 | —        | S9714MKDL | 16.0   | 19.6 | 149.2 | S9714MK-2     |
| 14 | S9714MKL | —         | 16.0   | 19.6 | 149.2 | S9714MK-2     |

ASME®/ANSI® B107.34M

## Universal

|    |             | A   | B     | C            | Style    |
|----|-------------|-----|-------|--------------|----------|
| 14 | S9714MKDFUA | 3/8 | 25/32 | 3-1/8 (79.5) | 12-Point |

### S9714MKDFUA 3/8" Drive 12-Point Metric 14 mm Spark Plug Socket

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- Side through hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life
- Knurled surface for finger tightening and removal

## Extra-Deep

|       |         | C       | Rubber Insert |
|-------|---------|---------|---------------|
| 13/16 | S9719KA | 5-7/8   | S9719-2A      |
| 5/8   | S9720KA | 5-31/32 | S9706KARI     |
| 9/16  | S9716KL | 5-7/8   | S9714MK-2     |

## SPARK PLUG SOCKETS (Blue-Point®)



BLPSPS3858



BLPSPS381316

### Spark Plug, Inches, Chrome (Blue-Point®)

|       |              | Length, inches |
|-------|--------------|----------------|
| 5/8   | BLPSPS3858   | 2-9/16         |
| 13/16 | BLPSPS381316 | 2-1/4          |



# THREAD RESTORING: RETHREADING TAPS AND DIES

## Rethreading Tap and Die Set Components

| Type   | Size, inches (mm)  | Stock No.          | Set Contains: |       |       |         |  |
|--|--|--------------------|---------------|-------|-------|---------|--|
|  |  |                    | RTD48†        | TRC3† | TRF3† | RTD15M† |  |
| <br>NC Rethreading Taps       | 1/4–20 (6.3–508)   | TRT2520A‡          | •             | •     |       |         |  |
|  | 5/16–18 (8–457.2)  | TRT3118A‡          | •             | •     |       |         |  |
|  | 3/8–16 (9.5–406.4)   | TRT3716A‡          | •             | •     |       |         |  |
|  | 7/16–14 (11–355.6)   | TRT4314A‡          | •             | •     |       |         |  |
|  | 1/2–13 (12.7–330.2)  | TRT5013A‡          | •             | •     |       |         |  |
|  | 9/16–12 (14–304.8)   | TRT5612A‡          | •             | •     |       |         |  |
| <br>NF Rethreading Taps       | 1/4–28 (6.3–711.2)   | TRT2528A‡          | •             |       | •     |         |  |
|  | 5/16–24 (8–609.6)  | TRT3124A‡          | •             |       | •     |         |  |
|  | 3/8–24 (9.5–609.6)   | TRT3724A‡          | •             |       | •     |         |  |
|  | 7/16–20 (11–508)   | TRT4320A‡          | •             |       | •     |         |  |
|  | 1/2–20 (12.7–508)  | TRT5020A‡          | •             |       | •     |         |  |
|  | 9/16–18 (14–457.2)   | TRT5618A‡          | •             |       | •     |         |  |
| <br>Metric Rethreading Taps   | (M6 x 1)   | TRT51‡             | •             |       |       | •       |  |
|  | (M8 x 1.25)  | TRT53‡             | •             |       |       | •       |  |
|  | (M10 x 1.5)  | TRT54‡             | •             |       |       | •       |  |
|  | (M10 x 1.25)   | TRM1025-2‡         | •             |       |       | •       |  |
|  | (M12 x 1.75)   | TRT55‡             | •             |       |       | •       |  |
|  | (M12 x 1.5)  | TRT56‡             | •             |       |       | •       |  |
|  | (M12 x 1.25)   | TRT57‡             | •             |       |       | •       |  |
|  | (M10 x 1.00)   | TRT101‡            | •             |       |       |         |  |
|  | (M11 x 1.50)   | TRT11150‡          | •             |       |       |         |  |
|  | (M14 x 1.50)   | TRT14150‡          | •             |       |       |         |  |
| <br>NC Rethreading Dies      | 1/4–20 (6.3–508)   | TR2520A‡           | •             | •     |       |         |  |
|  | 5/16–18 (8–457.2)  | TR3118A‡           | •             | •     |       |         |  |
|  | 3/8–16 (9.5–406.4)   | TR3716A‡           | •             | •     |       |         |  |
|  | 7/16–14 (11–355.6)   | TR4314A‡           | •             | •     |       |         |  |
|  | 1/2–13 (12.7–330.2)  | TR5013A‡           | •             | •     |       |         |  |
|  | 9/16–12 (14–304.8)   | TR5612A‡           | •             | •     |       |         |  |
|  | 5/8–11 (15.8–279.4)  | TR6211A‡           | •             | •     |       |         |  |
|  | 3/4–10 (19–254)  | TR7510A‡           | •             | •     |       |         |  |
|  | 7/8–9 (22–228.6)   | TR8759A‡           | •             | •     |       |         |  |
|  | 1-8  | TR10008A‡          | •             | •     |       |         |  |
|  | 1-1/8–7 (28.5–177.8)   | TR11257A‡          | •             | •     |       |         |  |
|  | 1-1/4–7 (31.7–177.8)   | TR12507A‡          | •             | •     |       |         |  |
|  | <br>NF Rethreading Dies | 1/4–28 (6.3–711.2) | TR2528B‡      | •     |       | •       |  |
|  |  | 5/16–24 (8–609.6)  | TR3124B‡      | •     |       | •       |  |
|  |  | 3/8–24 (9.5–609.6) | TR3724B‡      | •     |       | •       |  |
| 7/16–20 (11–508)   |  | TR4320B‡           | •             |       | •     |         |  |
| 1/2–20 (12.7–508)  |  | TR5020B‡           | •             |       | •     |         |  |
| 9/16–18 (14–457.2)   |  | TR5618B‡           | •             |       | •     |         |  |
| 5/8–18 (15.8–457.2)  |  | TR6218B‡           | •             |       | •     |         |  |
| 3/4–16 (19–406.4)  |  | TR7516A‡           | •             |       | •     |         |  |
| 7/8–14 (22–355.6)  |  | TR8714A‡           | •             |       | •     |         |  |
| 1-14   |  | TR10014A‡          | •             |       | •     |         |  |
| 1-1/8–12 (28.5–304.8)  |  | TR11212A‡          | •             |       | •     |         |  |
| 1-1/4–12 (31.7–304.8)  |  | TR12512A‡          | •             |       | •     |         |  |
| <br>Metric Rethreading Dies | (M6 x 1)   | TDM51B‡            | •             |       |       | •       |  |
|  | (M8 x 1.25)  | TDM53B‡            | •             |       |       | •       |  |
|  | (M10 x 1.25)   | TRM1025-1‡         | •             |       |       | •       |  |
|  | (M10 x 1.5)  | TDM54B‡            | •             |       |       | •       |  |
|  | (M12 x 1.75)   | TDM55B‡            | •             |       |       | •       |  |
|  | (M12 x 1.5)  | TDM56B‡            | •             |       |       | •       |  |
|  | (M12 x 1.25)   | TDM57B‡            | •             |       |       | •       |  |
|  | (M10 x 1.00)   | TR101‡             | •             |       |       |         |  |
| (M11 x 1.50)   | TR11150‡   | •                  |               |       |       |         |  |
| (M14 x 1.50)   | TR14150‡   | •                  |               |       |       |         |  |

**WSK12-1‡ M14 x 2.00 Stud Installer (Blue-Point®)**  
**WSK12-PB‡ Plastic Box (Blue-Point®)**  
**WSK755-2‡ M14 x 1.50 Socket (Blue-Point®)**  
**WSK755-3‡ 1/2" -20 Socket (Blue-Point®)**

**WSK755-5‡ Washer (Blue-Point®)**  
**WSK755-6‡ Spacer (Blue-Point®)**  
**WSK938-3‡ M12 x 1.25 Socket (Blue-Point®)**  
**WSK938-4‡ M12 x 1.50 Socket (Blue-Point®)**



- Rethreading tools are for renewing existing threads, do not use for cutting new threads on hardened steel
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4



RTD48

### RTD48‡ 48 pc Master Rethreading Tap and Die Set

- Includes taps and dies, plus thread restorer files
- Repair or renew damaged threads using a socket or wrench (not for hardened threads or cutting the threads)
- Includes a rugged storage case



TRC3

### TRC3 18 pc Coarse US Rethreading Tap Set (Blue-Point®)

- Includes (6) NC taps and (12) NC dies
- Silver finish



TRF3

### TRF3 18 pc Fine US Rethreading Tap Set (Blue-Point®)

- Includes (6) NF taps and (12) NF dies
- Black finish



RTD15M

### RTD15M‡ 14 pc Metric Tap and Die Set (Blue-Point®)

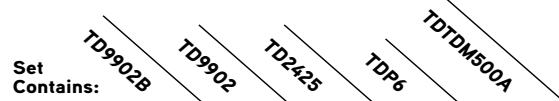
- Includes (7) metric dies and (7) metric taps
- Gold finish

# THREADING: TAP AND DIE SETS

## SAE/Metric Combination Set

### TDTDM117A 117 pc Master Tap and Die Set

- Includes all components of the TDTDM500A SAE/Metric set plus 41 pc 118° high-speed steel drill bit set in SAE, metric, wire gauge and letter sizes, and (5) spiral screw extractors
- Each drill bit matches to corresponding tap size for correct fit
- Set offers a complete assortment of high-carbon steel taps and dies in SAE and metric sizes
- Tap/drill charts and tool diagrams included
- Set packaged in a storage case



| National Fine Threads (adjustable dies)       | Thread Size | Tap Stock No. | Die Stock No.       | Die Type                       | Set Contains: |        |        |        |               |
|---|-------------|---------------|---------------------|--------------------------------|---------------|--------|--------|--------|---------------|
|   |             |               |                     |                                | US Set        | US Set | US Set | US Set | US/Metric Set |
|   | 1/4"-28 NF  | T105          | D015                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 5/16"-24 NF | T106          | D016                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 3/8"-24 NF  | T107          | D017                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 7/16"-20 NF | T108          | D018                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 1/2"-20 NF  | T109          | D019                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 1/2"-20 NF  | —             | DR019               | 1-1/2" Round Adjustable        | •             |        |        |        |               |
|   | 9/16"-18 NF | T125          | DR035               | 1-1/2" Round Adjustable        | •             | •      |        |        |               |
|   | 5/8"-18 NF  | T126          | DR036               | 1-1/2" Round Adjustable        | •             | •      |        |        |               |
|   | 3/4"-16 NF  | T127          | DR037               | 1-1/2" Round Adjustable        | •             | •      |        |        |               |
|   | 7/8"-14 NF  | T128          | DR042               | 2" Round Adjustable            | •             | •      |        |        |               |
|   | 1"-14 NF    | T129          | DR043               | 2" Round Adjustable            | •             | •      |        |        |               |
| National Fine Threads (non-adjustable dies)   | 1/4"-28 NF  | T105          | GA541-1428          | 1" Single Hex Non-Adjustable   |               |        |        |        |               |
|   | 5/16"-24 NF | T106          | —                   | —                              |               |        |        |        |               |
|   | 3/8"-24 NF  | T107          | GA541-3824          | 1" Single Hex Non-Adjustable   |               |        |        |        |               |
|   | 7/16"-20 NF | T108          | —                   | —                              |               |        |        |        |               |
|   | 1/2"-20 NF  | T109          | —                   | —                              |               |        |        |        |               |
| National Coarse Threads (adjustable dies)     | 1/4"-20 NC  | T100          | D010                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 5/16"-18 NC | T101          | D011                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 3/8"-16 NC  | T102          | D012                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 7/16"-14 NC | T103          | D013                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 1/2"-13 NC  | T104          | D014                | 1" Double Hex Adjustable       |               | •      | •      |        | •             |
|   | 1/2"-1 NC   | —             | DR014               | 1-1/2" Round Adjustable        |               | •      |        |        |               |
|   | 9/16"-12 NC | T120          | DR030               | 1-1/2" Round Adjustable        | •             | •      |        |        |               |
|   | 5/8"-11     | T121          | DR031               | 1-1/2" Round Adjustable        | •             | •      |        |        |               |
|   | 3/4"-10 NC  | T122          | DR032               | 1-1/2" Round Adjustable        | •             | •      |        |        |               |
|   | 7/8"-9 NC   | T123          | DR040               | 2" Round Adjustable            | •             | •      |        |        |               |
| 1"-8 NC                                       | T124        | DR041         | 2" Round Adjustable | •                              | •             |        |        |        |               |
| National Coarse Threads (non-adjustable dies) | 1/4"-20 NC  | T100          | GA541-1420          | 1" Single Hex Non-Adjustable   |               |        |        |        |               |
|   | 5/16"-18 NC | T101          | GA541-51618         | 1" Single Hex Non-Adjustable   |               |        |        |        |               |
|   | 3/8"-16 NC  | T102          | GA541-3816          | 1" Single Hex Non-Adjustable   |               |        |        |        |               |
|   | 7/16"-14 NC | T103          | GA541-71614         | 1" Single Hex Non-Adjustable   |               |        |        |        |               |
|   | 1/2"-13 NC  | T104          | GA541-1213          | 1" Single Hex Non-Adjustable   |               |        |        |        |               |
| Machine Screw Threads (adjustable dies)       | 4-40        | T111A         | D021A               | 5/8" Double Hex Adjustable     |               | •      | •      |        | •             |
|   | 6-32        | T112          | D022                | 5/8" Double Hex Adjustable     |               | •      | •      |        | •             |
|   | 8-32        | T113          | D023                | 5/8" Double Hex Adjustable     |               | •      | •      |        | •             |
|   | 10-24       | T114          | D024                | 5/8" Double Hex Adjustable     |               | •      | •      |        | •             |
|   | 10-32       | T115          | D025                | 5/8" Double Hex Adjustable     |               | •      | •      |        | •             |
|   | 12-24       | T116          | D026                | 5/8" Double Hex Adjustable     |               | •      | •      |        | •             |
| Machine Screw Threads (non-adjustable dies)   | 4-40        | T111A         | —                   | —                              |               |        |        |        |               |
|   | 6-32        | T112          | GA541-632           | 5/8" Single Hex Non-Adjustable |               |        |        |        |               |
|   | 8-32        | T113          | —                   | —                              |               |        |        |        |               |
|   | 10-24       | T114          | GA541-1024          | 5/8" Single Hex Non-Adjustable |               |        |        |        |               |
|   | 10-32       | T115          | GA541-1032          | 5/8" Single Hex Non-Adjustable |               |        |        |        |               |
|   | 12-24       | T116          | GA541-1224          | 5/8" Single Hex Non-Adjustable |               |        |        |        |               |
| Pipe Threads (adjustable dies)                | 1/8"-27 NPT | T110          | —                   | —                              |               |        | •      | •      | •             |
|   | 1/8"-27 NPT | —             | D020                | 1" Double Hex Non-Adjustable   |               | •      | •      |        | •             |
|   | 1/4"-18 NPT | T130          | —                   | —                              | •             | •      |        |        | •             |
|   | 1/4"-18 NPT | —             | DR033               | 1-1/2" Round Adjustable        | •             | •      |        |        |               |
|   | 3/8"-18 NPT | T131          | —                   | —                              |               |        |        | •      |               |
|   | 1/2"-14 NPT | T132          | —                   | —                              |               |        |        | •      |               |
|   | 3/4"-14 NPT | T133          | —                   | —                              |               |        |        | •      |               |
| 1"-11-1/2" NPT                                | T134        | —             | —                   |                                |               |        | •      |        |               |
| Pipe Threads (non-adjustable dies)            | 1/8"-27 NPT | T110          | GA541-1827          | 1" Double Hex Non-Adjustable   |               |        |        |        |               |

**TDP6-1 Wood Box (for TDP6) (Blue-Point®)**  
**TDTDM500AMT Plastic Box (for TDTDM500A)**

[Snapon.com](http://Snapon.com) 1.877.762.7664

## Master Spindle Rethreading Set

Set Contains: **RD20** ‡

| Stock No. | Rethreading Die Size |   |
|-----------|----------------------|---|
| RD7-1 ‡   | M24 x 1.5            | • |
| RD7-2 ‡   | M24 x 2              | • |
| RD7-3 ‡   | M22 x 1              | • |
| RD7-4 ‡   | M22 x 1.5            | • |
| RD7-5 ‡   | M20 x 1.5            | • |
| RD7-6 ‡   | 3/4"-20              | • |
| RD7-7 ‡   | 13/16"-20            | • |
| RD7-9 ‡   | M20 x 1.25           | • |
| RD7-10 ‡  | 3/4"-16 NF           | • |
| RD7-11 ‡  | 7/8"-14 NF           | • |
| RD7-12 ‡  | 1"-14 NS             | • |
| RD7-13 ‡  | 11/16"-24 NF         | • |
| RD7-14 ‡  | M25-1.5              | • |
| RD7-15 ‡  | M27-2                | • |
| RD7-16 ‡  | 27/32"-20 NF         | • |
| RD7-17 ‡  | M16-1                | • |
| RD7-18 ‡  | M16-1.5              | • |
| RD7-19 ‡  | M18-1.5              | • |
| RD7-20 ‡  | M19-1.5              | • |
| RD7-21 ‡  | M20-1                | • |
| RD7-22 ‡  | Storage Case         |   |



**RD20**

### RD20 ‡ 20 pc Master Spindle Rethreading Set

- Repair and renew damaged threads on stub axles and spindles for most vehicles
- Dies are manufactured from high-tempered steel for strength and durability
- Each die size is embossed in the case directly below each die for easy identification and selection
- 6-point hex used with socket or wrench
- Application chart included
- Includes storage case

## Spindle Rethreading Set

### RD8 ‡ 8 pc Spindle Rethreading Set

- For most imported or US front wheel drive vehicles

Set Contains: **RD8** ‡

| Stock No. | Rethreading Die Size |   |
|-----------|----------------------|---|
| RD7-1 ‡   | M24 x 1.5            | • |
| RD7-2 ‡   | M24 x 2              | • |
| RD7-3 ‡   | M22 x 1              | • |
| RD7-4 ‡   | M22 x 1.5            | • |
| RD7-5 ‡   | M20 x 1.5            | • |
| RD7-6 ‡   | 3/4"-20              | • |
| RD7-7 ‡   | 13/16"-20            | • |
| RD7-9 ‡   | M20 x 1.25           | • |



**RD8**

## Light Truck Spindle Rethreading Set

### RD8LT ‡ 8 pc Light Truck Spindle Rethreading Set (Blue-Point®)

- For use on 4WD front and rear axle housings, and medium- to heavy-duty 2WD trucks (rear axle)
- Restore axle housing and bearing/hub retention threads

Set Contains: **RD8LT** ‡

| Stock No. | Rethreading Die Size |   |
|-----------|----------------------|---|
| RD7-23 ‡  | 2"-16                | • |
| RD7-25 ‡  | 1-5/8"-16            | • |
| RD7-27 ‡  | Left Hand, 2"-16     | • |
| RD7-28 ‡  | 2-1/8"-16            | • |
| RD7-29 ‡  | 2-1/4"-16            | • |



**RD8LT**



- Rethreading tools are for renewing existing threads, do not use for cutting new threads on hardened steel
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

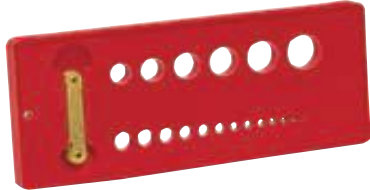
## THREAD RESTORING: FILES AND THREAD CHASERS



T14125

### Metric Spark Plug Hole Taps

| Stock No. | Size       |
|-----------|------------|
| T10100    | M10 x 1.00 |
| T12125    | M12 x 1.25 |
| T14125    | M14 x 1.25 |
| T18150    | M18 x 1.50 |
| T2818     | 7/8"-18 NF |



TDM101

### Thread Gauge

#### TDM101 Metric Bolt and Thread Gauge

- Bolt diameter range of 2.3–24 mm (with inch/decimal equivalents)
- Thread gauge sizes: .35–3 mm



TD1040

### Tap and Die Accessories

#### TD1040 SAE Thread Pitch Gauge

- Measures US or sharp V threads
- Includes 18 plated blades for the following thread sizes: 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40 and 44 threads per inch



TFTFM932A

### Thread Restoring Files

#### TFTFM932A 3 pc Thread Restoration File Set (Blue-Point®)

- Includes (3) commonly needed files
- Files feature a black industrial finish and comfortable vinyl handles
- Files service a range of 9–32 threads per inch and 0.75–3 mm pitches
- Includes a TFTFM932-1 Vinyl Kit Bag for storage

#### TF1124B ‡ Thread Restorer File (Blue-Point®)

- 11, 12, 13, 14, 16, 18, 20 and 24 threads per inch

#### TF1127B ‡ Thread Restorer File (Blue-Point®)

- 9, 10, 12, 16, 20, 27, 28 and 32 threads per inch

#### TFM7530B ‡ Thread Restorer File (Blue-Point®)

- For any diameter right- or left-hand threads
- Removable vinyl handle
- Eight pitches: .75, 1, 1.25, 1.5, 1.75, 2, 2.5 and 3 mm



TF1124B

# THREADING: TAP AND DIE SETS



TD9902B



TD2425



TDTDM500A



TDM99117



TDM99117B



TDM117A

Set Contains:

TD9902B TD9902 TD2425 TDTDM500A TDM99117 TDM99117B TDM117A

|                       | Thread Size                | Tap Stock No.    | Die Stock No.                                      | Die Type                   | SAE Set | SAE Set | SAE Set | SAE/Metric Set | Metric Set | Metric Set | SAE/Metric Set |
|-----------------------|----------------------------|------------------|--|----------------------------|---------|---------|---------|----------------|------------|------------|----------------|
| <b>Metric Threads</b> | M3 x .50                   | <b>T305M</b>     | <b>D305M</b>                                       | 5/8" Double Hex Adjustable |         |         |         | •              | •          |            | •              |
|                       | M3 x .60                   | <b>T306M</b>     | <b>D306M</b>                                       | 5/8" Double Hex Adjustable |         |         |         |                |            |            |                |
|                       | M4 x .70                   | <b>T407M</b>     | <b>D407MA</b>                                      | 5/8" Double Hex Adjustable |         |         |         | •              | •          |            | •              |
|                       | M4 x .75                   | <b>T4075M</b>    | <b>D4075M</b>                                      | 5/8" Double Hex Adjustable |         |         |         | •              | •          |            | •              |
|                       | M5 x .80                   | <b>T508M</b>     | <b>D508MA</b>                                      | 5/8" Double Hex Adjustable |         |         |         | •              | •          |            | •              |
|                       | M5 x .90                   | <b>T509M</b>     | <b>D509M</b>                                       | 5/8" Double Hex Adjustable |         |         |         | •              | •          |            | •              |
|                       | M6 x 1.00                  | <b>T610M</b>     | <b>D610MA</b>                                      | 5/8" Double Hex Adjustable |         |         |         | •              | •          |            | •              |
|                       | M7 x 1.00                  | <b>T710M</b>     | <b>D710M</b>                                       | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M8 x 1.00                  | <b>T810M</b>     | <b>D810M</b>                                       | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M8 x 1.25                  | <b>T812M</b>     | <b>D812M</b>                                       | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M9 x 1.00                  | <b>T910M</b>     | <b>D910M</b>                                       | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M9 x 1.25                  | <b>T912M</b>     | <b>D912M</b>                                       | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M10 x 1.25                 | <b>T1012M</b>    | <b>D1012M</b>                                      | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M10 x 1.5                  | <b>T1015M</b>    | <b>D1015M</b>                                      | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M11 x 1.5                  | <b>T1115M</b>    | <b>D1115M</b>                                      | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M12 x 1.5                  | <b>T1215M</b>    | <b>D1215M</b>                                      | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M12 x 1.75                 | <b>T1217M</b>    | <b>D1217M</b>                                      | 1" Double Hex Adjustable   |         |         |         | •              | •          |            | •              |
|                       | M14 x 1.25                 | <b>T1412M</b>    | <b>DR1412M</b>                                     | 1-1/2" Round Adjustable    |         |         |         | •              | •          |            | •              |
|                       | M14 x 1.5                  | <b>T1415M</b>    | <b>DR1415M</b>                                     | 1-1/2" Round Adjustable    |         |         |         | •              | •          |            | •              |
|                       | M14 x 2.0                  | <b>T1420M</b>    | <b>DR1420M</b>                                     | 1-1/2" Round Adjustable    |         |         |         | •              | •          |            | •              |
|                       | M16 x 1.5                  | <b>T1615M</b>    | <b>DR1615M</b>                                     | 1-1/2" Round Adjustable    |         |         |         | •              | •          |            | •              |
|                       | M16 x 2.0                  | <b>T1620M</b>    | <b>DR1620M</b>                                     | 1-1/2" Round Adjustable    |         |         |         | •              | •          |            | •              |
|                       | M18 x 1.5                  | <b>T1815M</b>    | <b>DR1815M</b>                                     | 1-1/2" Round Adjustable    |         |         |         | •              | •          |            | •              |
|                       | M18 x 2.5                  | <b>T1825M</b>    | <b>DR1825M</b>                                     | 1-1/2" Round Adjustable    |         |         |         | •              | •          |            | •              |
|                       | M20 x 2.5                  | <b>T2025M</b>    | <b>DR2025M</b>                                     | 2" Round Adjustable        |         |         |         | •              | •          |            | •              |
|                       | M22 x 1.5                  | <b>T2215M</b>    | <b>DR2215M</b>                                     | 2" Round Adjustable        |         |         |         | •              | •          |            | •              |
|                       | M24 x 2.0                  | <b>T2420M</b>    | <b>DR2420M</b>                                     | 2" Round Adjustable        |         |         |         | •              | •          |            | •              |
|                       | M24 x 3.0                  | <b>T2430M</b>    | <b>DR2430M</b>                                     | 2" Round Adjustable        |         |         |         | •              | •          |            | •              |
| 1/8"-28 BSP           | <b>T110M</b>               | <b>D020M</b>     | 1" Double Hex Non-Adjustable                       |                            |         |         | •       | •              |            | •          |                |
| <b>Accessories</b>    | <b>Thread Size</b>         | <b>Stock No.</b> | <b>Die Type</b>                                    |                            |         |         |         |                |            |            |                |
|                       | TD3A Die Stock             | <b>TD3A</b>      | For 5/8" Double Hex Dies                           |                            | •       | •       | •       | •              | •          |            | •              |
|                       | TD10A Die Stock            | <b>TD10A</b>     | Self-Centering for 1" Double Hex Dies              |                            | •       | •       | •       | •              | •          |            | •              |
|                       | TD35 Die Stock             | <b>TD35</b>      | Self-Centering for 1-1/2" Dia. Round Dies          |                            | •       | •       |         |                | •          | •          |                |
|                       | TD40 Die Stock             | <b>TD40</b>      | Self-Centering for 2" Dia. Round Dies              |                            | •       | •       |         |                | •          | •          |                |
|                       | TD4 Tap Wrench             | <b>TD4</b>       | 4 Jaw, for 0-1/4" Taps                             |                            | •       | •       | •       | •              | •          |            | •              |
|                       | TF50 Tap Wrench            | <b>TD50</b>      | 4 Jaw for 1/4-1/2" (M7 x 1.00-M12 x 1.75) Taps     |                            | •       | •       | •       | •              | •          |            | •              |
|                       | TD88A Tap Wrench           | <b>TD88A</b>     | Clamp Type, for 0-1/2" (M3 x 0.50-M12 x 1.75) Taps |                            | •       | •       | •       | •              | •          |            | •              |
|                       | TD98A Tap Wrench           | <b>TD98A</b>     | Clamp Type for 0-1" (M7 x 1.00-M24 x 3.0) Taps     |                            | •       | •       |         |                | •          | •          |                |
|                       | SAE Thread, Pitch Gauge    | <b>TD1040</b>    | SAE  |                            | •       | •       |         | •              |            |            | •              |
|                       | Metric Thread, Pitch Gauge | <b>TDM100</b>    | Metric   |                            |         |         |         | •              | •          |            | •              |
|                       | TDS1 Screwdriver           | <b>TDS1</b>      | For Adjusting Dies                                 |                            | •       | •       | •       | •              | •          |            | •              |



- Rethreading tools are for renewing existing threads, do not use for cutting new threads on hardened steel
- Read safety precautions on pages W1 to W4

## THREADING: TAPS AND DIE SETS



T1412M



T18150



TDM100



ATSL



TMA34

### TMA34 34 pc Metric Tap Set

- 34 pc set features popular metric taps from 3–18 mm sizes
- Precision ground flutes ensure accurate threading
- High-carbon steel ensures less breakage
- Tap adaptors turn any 3/8" socket drive into a tap driver

### Metric Tap Set

| Stock No. | Thread Size | Stock No. | Thread Size | Stock No. | Thread Size                           |
|-----------|-------------|-----------|-------------|-----------|---------------------------------------|
| T305M     | M3 x .50    | T912M     | M9 x 1.25   | T1610M    | M16 x 1.00                            |
| T306M     | M3 x .60    | T1010M    | M10 x 1.00  | T1615M    | M16 x 1.50                            |
| T4075M    | M4 x .75    | T1012M    | M10 x 1.25  | T1620M    | M16 x 2.00                            |
| T407M     | M4 x .70    | T1015M    | M10 x 1.50  | T18150    | M18 x 1.50                            |
| T508M     | M5 x .80    | T1115M    | M11 x 1.50  | T1815M    | M18 x 1.50                            |
| T509M     | M5 x .90    | T1212M    | M12 x 1.25  | T1825M    | M18 x 2.50                            |
| T610M     | M6 x 1.00   | T1215M    | M12 x 1.50  | TDM100    | —                                     |
| T6310M    | M6.33 x 1   | T1217M    | M12 x 1.75  | ATSS      | Adj. Tap Socket, 3–6 mm (3/8" Drive)  |
| T710M     | M7 x 1.00   | T14125    | M14 x 1.25  | ATSL      | Adj. Tap Socket, 6–12 mm (3/8" Drive) |
| T810M     | M8 x 1.00   | T1412M    | M14 x 1.25  |           |                                       |
| T812M     | M8 x 1.25   | T1415M    | M14 x 1.50  |           |                                       |
| T910M     | M9 x 1.00   | T1420M    | M14 x 2.00  |           |                                       |



GAM541

### GAM541 41 pc Metric Tap and Die Set (Blue-Point®)

- 41 pc set features 1" single hex non-adjustable dies from 3–12 mm, a 1/8"-28 BSP die, plus taps in the same sizes
- Also includes a die stock, (2) T-handle tap wrenches, a thread pitch gauge, a drill/tap chart, screwdriver and storage case



GA541

### GA541 41 pc SAE Tap and Die Set (Blue-Point®)

- 41 pc set features taps and dies from #4 to 1/2" in both NF and NC threads, a pipe thread tap and die, plus (2) die stocks and (3) tap wrenches, a screw pitch gauge, screwdriver and a storage case

### SAE Left-Hand Tap and Die Sets

| Stock No. | Description   | Thread Size     |
|-----------|---------------|-----------------|
| DLH010    | Left Hand Die | 1/4-20 NC       |
| DLH011    | Left Hand Die | 5/16-18 NC      |
| DLH012    | Left Hand Die | 3/8-16 NC       |
| DLH013    | Left Hand Die | 7/16-14 NC      |
| DLH014    | Left Hand Die | 1/2-13 NC       |
| DLH015    | Left Hand Die | 1/4-28 NF       |
| DLH016    | Left Hand Die | 5/16-24 NF      |
| DLH017    | Left Hand Die | 3/8-24 NF       |
| DLH018    | Left Hand Die | 7/16-20 NF      |
| DLH019    | Left Hand Die | 1/2-20 NF       |
| DLH021    | Left Hand Die | 4-40 NC         |
| DLH022    | Left Hand Die | 6-32 NC         |
| DLH023    | Left Hand Die | 8-32 NC         |
| DLH024    | Left Hand Die | 10-24 NC        |
| DLH025    | Left Hand Die | 10-32 NF        |
| DLH026    | Left Hand Die | 12-24 NC        |
| TLH100    | Left Hand Tap | 1/4-20 NC Plug  |
| TLH101    | Left Hand Tap | 5/16-18 NC Plug |
| TLH102    | Left Hand Tap | 3/8-16 NC Plug  |
| TLH103    | Left Hand Tap | 7/16-14 NC Plug |

| Stock No. | Description                 | Thread Size     |
|-----------|-----------------------------|-----------------|
| TLH104    | Left Hand Tap               | 1/2-13 NC Plug  |
| TLH105    | Left Hand Tap               | 1/4-28 NF Plug  |
| TLH106    | Left Hand Tap               | 5/16-24 NF Plug |
| TLH107    | Left Hand Tap               | 3/8-24 NF Plug  |
| TLH108    | Left Hand Tap               | 7/16-20 NF Plug |
| TLH109    | Left Hand Tap               | 1/2-20 NF Plug  |
| TLH111    | Left Hand Tap               | 4-40 NC Plug    |
| TLH112    | Left Hand Tap               | 6-32 NC Plug    |
| TLH113    | Left Hand Tap               | 8-32 NC Plug    |
| TLH114    | Left Hand Tap               | 10-24 NC Plug   |
| TLH115    | Left Hand Tap               | 10-32 NF Plug   |
| TLH116    | Left Hand Tap               | 12-24 NC Plug   |
| TDALTSB   | T-Bar for Adj. Tap Socket   | —               |
| TDALDS1   | Die-Stock 1 Double Hex Dies | —               |
| TDALDSS   | Die Spacer                  | —               |
| TDALTS1   | Adjustable Tap Socket       | 0–1/4"          |
| TDALTS2   | Adjustable Tap Socket       | 1/4–1/2"        |
| TD1040    | SAE Thread, Pitch Gauge     | —               |
| TDM1040   | Metric Thread Pitch Gauge   | Metric          |

### TDLH139 Left-Hand Thread Tap and Die Set

- Built exclusively for left-hand applications
- Set comprises the most popular SAE left-hand taps and dies: #4–1/2" sizes
- High-quality handle with (2) adjustable tap sockets (0–1/4" and 1/4–1/2") provides secure, precise hold during tapping applications



TDLH139

## Tap and Die Drive Tool System

### TDM100 Metric Thread Pitch Gauge

### TDRSET 7 pc Tap and Die Drive Tool Set

- Set includes (1) die stock, (2) adjustable tap sockets, (1) die spacer, (1) T-bar handle, (1) SAE thread pitch gauge and (1) metric thread pitch gauge

### TDALDS1 1" Double Hex Die Stock

- Features a twist die lock, so no set screws are needed
- Simply twist to insert or remove the die
- Ergonomic handles for comfort and control when threading
- Fits 1" double hex dies

### TDALTS2 1/4-1/2" Adjustable Tap Socket

- For 1/4" and 1/2" (M7 x 1.00 and M12 x 1.75) taps
- Versatile base can be driven with die stock, 3/8" ratchet or T-bar handle

### TDALTSB T-Bar Handle (For TDALTS)

- For TDALTS1 and TDALTS2 Adjustable Tap Sockets

### TD1040 SAE Thread Pitch Gauge

- Measures US or sharp V threads
- Includes 18 plated blades for the following thread sizes: 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40 and 44 threads per inch



TDM100



TDRSET



TD1040



TAMA141

## SAE/Metric Tap Set

### TAMA141 SAE/Metric Plug Tap Set

- Built for those who frequently tap and need a comprehensive set of taps
- Wide array of taps in most popular SAE and metric sizes
- High-quality handle with two adjustable tap sockets (0-1/4" and 1/4-1/2") provides secure, precise hold during tapping applications

| Stock No. | Description                    | Thread Size | Set Contains: |
|-----------|--------------------------------|-------------|---------------|
| T100      | 1" Double Hex Adjustable Tap   | 1/4"-20 NC  | •             |
| T101      | 1" Double Hex Adjustable Tap   | 5/16"-18 NC | •             |
| T1012M    | Metric Double Hex Tap          | M10 x 1.25  | •             |
| T1015M    | Metric Double Hex Tap          | M10 x 1.50  | •             |
| T102      | 1" Double Hex Adjustable Tap   | 3/8"-16 NC  | •             |
| T103      | 1" Double Hex Adjustable Tap   | 7/16"-14 NC | •             |
| T104      | 1" Double Hex Adjustable Tap   | 1/2"-13 NC  | •             |
| T105      | National Fine Thread Tap       | 1/4"-28 NF  | •             |
| T106      | National Fine Thread Tap       | 5/16"-24 NF | •             |
| T107      | National Fine Thread Tap       | 3/8"-24 NF  | •             |
| T108      | National Fine Thread Tap       | 7/16"-20 NF | •             |
| T109      | National Fine Thread Tap       | 1/2"-20 NF  | •             |
| T110      | Pipe Thread Tap                | 1/8"-27 NPT | •             |
| T110M     | Metric Double Hex Tap          | 1/8"-28 BSP | •             |
| T1115M    | Metric Double Hex Tap          | M11 x 1.50  | •             |
| T111A     | 5/8" Double Hex Adjustable Tap | 4-40        | •             |
| T112      | 5/8" Double Hex Adjustable Tap | 6-32        | •             |
| T113      | 5/8" Double Hex Adjustable Tap | 8-32        | •             |
| T114      | 5/8" Double Hex Adjustable Tap | 10-24       | •             |
| T115      | 5/8" Double Hex Adjustable Tap | 10-32       | •             |
| T116      | 5/8" Double Hex Adjustable Tap | 12-24       | •             |

| Stock No. | Description                 | Thread Size | Set Contains: |
|-----------|-----------------------------|-------------|---------------|
| T1212M    | Right-Hand Plug Tap         | M12 x 1.25  | •             |
| T1217M    | Metric Double Hex Tap       | M12 x 1.75  | •             |
| T305M     | Metric Double Hex Tap       | M3 x .50    | •             |
| T4075M    | Metric Double Hex Tap       | M4 x .75    | •             |
| T407M     | Metric Double Hex Tap       | M4 x .70    | •             |
| T508M     | Metric Double Hex Tap       | M5 x .80    | •             |
| T509M     | Metric Double Hex Tap       | M5 x .90    | •             |
| T610M     | Metric Double Hex Tap       | M6 x 1.00   | •             |
| T710M     | Metric Double Hex Tap       | M7 x 1.00   | •             |
| T810M     | Metric Double Hex Tap       | M8 x 1.00   | •             |
| T812M     | Metric Double Hex Tap       | M8 x 1.25   | •             |
| T910M     | Metric Tap                  | M9 x 1.00   | •             |
| T912M     | Metric Double Hex Tap       | M9 x 1.25   | •             |
| TDM100    | Metric Thread Pitch Gauge   | —           | •             |
| TD1040    | SAE Thread, Pitch Gauge     | —           | •             |
| TDALDS1   | Die-Stock 1 Double Hex Dies | —           | •             |
| TDALDSS   | Die Spacer                  | —           | •             |
| TDALTS1   | Adjustable Tap Socket       | 0-1/4"      | •             |
| TDALTS2   | Adjustable Tap Socket       | 1/4-1/2"    | •             |
| TDALTSB   | T-Bar for Adj. Tap Socket   | —           | •             |



• Read safety precautions on pages W1 to W4

## TAP SOCKETS AND DIE SETS



TDL8

### TDL8 8 pc Tap Socket Set (Blue-Point®)

- Rubber O-rings hold taps securely in place
- For use with ratchets and handles
- Black industrial finish

### 1/4–3/8" Drive Tap Sockets

Set Contains: **TDL8**

| Stock No. | Square Drive, inches | Fits SAE Size Taps     | Fits Metric Size Taps                       | Shank Dia., inches | Square Size, inches |   |
|-----------|----------------------|------------------------|---|--------------------|---------------------|---|
| TDL8-1    | 1/4                  | #1, #2, #3, #4, #5, #6 | M1.6, M1.8, M2, M2.2, M2.5, M3, M3.15, M3.5 | .141               | .110                | • |
| TDL8-2    | 1/4                  | #8                     | M4  | .168               | .131                | • |
| TDL8-3    | 1/4                  | #10                    | M4.5, M5                                    | .194               | .152                | • |
| TDL8-4    | 1/4                  | 1/4"                   | M6, M6.3                                    | .255               | .191                | • |
| TDL8-5    | 3/8                  | 5/16", 7/16"           | M7, M8                                      | .323               | .242                | • |
| TDL8-6    | 3/8                  | 3/8"                   | M10   | .381               | .286                | • |
| TDL8-7    | 3/8                  | 1/2"                   | M12, M12.5                                  | .367               | .275                | • |
| TDL8-8    | 3/8                  | 1/8" NPT               | —   | .437               | .328                | • |

## THREADING: TAP SOCKETS AND DIE SETS

### Ratcheting Tap Wrenches (Blue-Point®)

#### YA577A T-Handle Ratcheting Tap Wrench (Blue-Point®)

- For taps up to 1/4"
- Ratchet clockwise or counterclockwise
- 3-3/8" long body, 3-15/16" handle



YA577A

#### YA578A 1/4–1/2" Ratcheting Tap Wrench (Blue-Point®)

- For 1/4–1/2" taps
- Ratchet clockwise or counterclockwise
- 4-3/8" long body, 4-3/4" handle



TD1040

### Thread Pitch Gauges

#### TD1040 SAE Thread Pitch Gauge

- Measures US or sharp V threads
- Includes 18 plated blades for the following thread sizes: 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40 and 44 threads per inch



ATSL

ATSS

### 1/2" Drive Tap Sockets

Set Contains: **TDL3**

| Stock No. | Square Drive, inches | Fits SAE Size Taps | Fits Metric Size Taps | Shank Dia., inches | Square Size, inches |   |
|-----------|----------------------|--------------------|-----------------------|--------------------|---------------------|---|
| TDL31     | 1/2                  | 5/8                | 16 mm                 | .480               | .360                | • |
| TDL32     | 1/2                  | 11/16              | 18 mm                 | .542               | .406                | • |
| TDL33     | 1/2                  | 3/4                | —                     | .590               | .442                | • |



TDL3

### TDL3 3 pc 1/2" Drive Tap Socket Set (Blue-Point®)

- Includes (3) tap sockets
- Used in restricted areas where a T-handle will not easily fit
- Manufactured to M.C.T.I. standards
- Black industrial finish

### Adjustable Tap Sockets

#### ATSL 3/8" Drive 3–6 mm Adjustable Tap Socket

- Fits common taps from 1/4–1/2" (6–12 mm)

#### ATSS 3/8" Drive 6–12 mm Adjustable Tap Socket

- Fits common taps from #6-1/4" (3–6 mm)

#### ATSET 2 pc Adjustable Tap Socket Set

- Includes ATSS and ATSL

## PLUG TAPS AND DIES



T1010M

### Plug Taps

| Tap | Stock No. | Thread Size | Thread Pitch |
|-----|-----------|-------------|--------------|
|     | T111      | 4-36        | Right-Hand   |
|     | T6310M    | M6.33 x 1   | Right-Hand   |
|     | T1010M    | M10 x 1.00  | Right-Hand   |
|     | T1112M    | M11 x 1.25  | Right-Hand   |
|     | T1212M    | M12 x 1.25  | Right-Hand   |
|     | T1412M    | M14 x 1.25  | Right-Hand   |
|     | T1415M    | M14 x 1.50  | Right-Hand   |
|     | T1420M    | M14 x 2.00  | Right-Hand   |



D1825M

### Plug Dies

| Die | Stock No. | Die Type                   | Thread Size | Thread Pitch |
|-----|-----------|----------------------------|-------------|--------------|
|     | D021A     | 5/8" Double Hex Adjustable | 4-40        | Right-Hand   |
|     | D1212M    | 1" Double Hex              | M12 x 1.25  | Right-Hand   |
|     | D1615M    | 1-1/4" Hex                 | M16 x 1.50  | Right-Hand   |
|     | D1615ML   | 1-1/4" Hex                 | M16 x 1.50  | Left Hand    |
|     | D1810M    | 1-7/16" Hex                | M18 x 1.00  | Right-Hand   |
|     | D1815M    | 1-7/16" Hex                | M18 x 1.50  | Right-Hand   |
|     | D1815ML   | 1-7/16" Hex                | M18 x 1.50  | Left Hand    |
|     | D1825M    | 1-7/16" Hex                | M18 x 2.50  | Right-Hand   |
|     | DR2015M   | 2" Round                   | M20 x 1.50  | Right-Hand   |
|     | D2025M    | 1-7/16" Hex                | M20 x 2.50  | Right-Hand   |
|     | D2215M    | 1-5/8" Hex                 | M22 x 1.50  | Right-Hand   |
|     | D2415M    | 1-13/16" Hex               | M24 x 1.50  | Right-Hand   |
|     | D3015M    | 2" Hex                     | M30 x 1.50  | Right-Hand   |

### 3/8" Drive Die Socket

#### DDS1 3/8" Drive Die Driver Socket

- Fits 1" double hex-style dies
- Deep clearance for use on longer studs
- Retention ring in the socket prevents the die from falling out during positioning
- 3/8" square drive allows use in hard-to-reach places where a T-handle will not work



DDS1



# EXTRACTORS: EXTRACTOR SETS

## EXDMS48 † 48 pc Master Extractor Set

- Quickly and easily extract the toughest screws from 3/32–15/16" screw sizes (including metric sizes)
- Includes (16) left-hand mechanic's-length cobalt drill bits, (13) multispline screw extractors (1/8–1/2"), (6) spiral flute screw extractors plus, (13) hex head fastener extractors (1/4–3/4")
- Hex head extractors feature left-hand spiral flutes for maximum gripping power
- External hex and square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations
- 48 pc in a storage case



EXDMS48



EXD35

## EXD35 † 35 pc Master Extractor Set

- Quickly and easily extract tough screws from 3/32–15/16" (including metric sizes)
- Includes (16) left-hand mechanic's-length cobalt drill bits, (13) multispline screw extractors and (6) spiral flute screw extractors in storage case

| Set Contains:           | EXDMS48†     | EXD35† | EXD10† | EXDL10† | E1025† | E1020† |
|-------------------------|--------------|--------|--------|---------|--------|--------|
|                         | Stock No.    |        |        |         |        |        |
| Right-Hand Drill Bits   | CSE405B †    |        |        |         |        | •      |
|                         | DBCFS5/64 †  |        |        | •       |        |        |
|                         | DBCFS7/64 †  |        |        | •       |        |        |
|                         | DBCFS5/32 †  |        |        | •       |        |        |
|                         | DBCFS1/4 †   |        |        | •       |        |        |
|                         | DBCFS19/64 † |        |        | •       |        |        |
|                         | DBF1/2C †    |        |        |         |        | •      |
|                         | DBF1/8C †    |        |        |         |        | • •    |
|                         | DBF3/16C †   |        |        |         |        | • •    |
|                         | DBF1/4C †    |        |        |         |        | • •    |
|                         | DBF5/16C †   |        |        |         |        | • •    |
|                         | DBF11/32C †  |        |        |         |        | • •    |
|                         | DBF7/16C †   |        |        |         |        | •      |
| Left-Hand Drill Bits    | DBCL5/64 †   | •      | •      |         | •      |        |
|                         | DBCL5/64B †  |        |        |         |        |        |
|                         | DBCL7/64 †   | •      | •      |         | •      |        |
|                         | DBCL7/64B †  |        |        |         |        |        |
|                         | DBCL5/32 †   | •      | •      |         | •      |        |
|                         | DBCL5/32B †  |        |        |         |        |        |
|                         | DBCL7/32 †   |        |        |         |        |        |
|                         | DBCL3/16A †  | •      | •      |         |        |        |
|                         | DBCL1/8 †    |        |        |         |        |        |
|                         | DBCL1/4 †    | •      | •      |         | •      |        |
|                         | DBCL1/4B †   |        |        |         |        |        |
|                         | DBCL9/32 †   | •      | •      |         |        |        |
|                         | DBCL9/32A †  |        |        |         |        |        |
|                         | DBCL19/64 †  | •      | •      |         | •      |        |
| DBCL19/64B †            |              |        |        |         |        |        |
| DBCL3/8A †              | •            | •      |        |         |        |        |
| DBCL15/32A †            | •            | •      |        |         |        |        |
| DBCL1/2 †               | •            | •      |        |         |        |        |
| Solid-Type Drill Guides | E921 †       |        |        |         | •      | •      |
|                         | E1021 †      |        |        |         | •      | •      |
|                         | E1121 †      |        |        |         | •      | •      |
|                         | E1221 †      |        |        |         | •      | •      |
|                         | E1321 †      |        |        |         | •      | •      |
|                         | E1421 †      |        |        |         | •      | •      |
|                         | E1521 †      |        |        |         | •      | •      |
|                         | E1621 †      |        |        |         | •      | •      |
|                         | E1721 †      |        |        |         | •      | •      |
| E1821 †                 |              |        |        | •       | •      |        |

| Set Contains:                 | EXDMS48†  | EXD35† | EXD10† | EXDL10† | E1025† | E1020† |
|-------------------------------|-----------|--------|--------|---------|--------|--------|
|                               | Stock No. |        |        |         |        |        |
| Straight Screw Extractors     | E1 †      |        |        |         |        | • •    |
|                               | E2 †      |        |        |         |        | • •    |
|                               | E3 †      |        |        |         |        | • •    |
|                               | E4 †      |        |        |         |        | • •    |
|                               | E5 †      |        |        |         |        | • •    |
|                               | E6 †      |        |        |         |        | •      |
|                               | E7 †      |        |        |         |        | •      |
|                               | E8 †      |        |        |         |        | •      |
| Pipe Plug Extractors          | E80 †     |        |        |         |        | •      |
|                               | E81 †     |        |        |         |        | •      |
|                               | E82 †     |        |        |         |        | •      |
|                               | E83 †     |        |        |         |        | •      |
|                               | E84 †     |        |        |         |        | •      |
| Spiral Flute Screw Extractors | E85 †     |        |        |         |        | •      |
|                               | EX1 †     | •      | •      | •       | •      |        |
|                               | EX2 †     | •      | •      | •       | •      |        |
|                               | EX3 †     | •      | •      | •       | •      |        |
|                               | EX4 †     | •      | •      | •       | •      |        |
|                               | EX5 †     | •      | •      | •       | •      |        |
| Multispline Screw Extractors  | EX6 †     | •      | •      |         |        |        |
|                               | REX104A † | •      | •      |         |        |        |
|                               | REX105A † | •      | •      |         |        |        |
|                               | REX106A † | •      | •      |         |        |        |
|                               | REX107A † | •      | •      |         |        |        |
|                               | REX108A † | •      | •      |         |        |        |
|                               | REX109A † | •      | •      |         |        |        |
|                               | REX110A † | •      | •      |         |        |        |
|                               | REX111A † | •      | •      |         |        |        |
|                               | REX112A † | •      | •      |         |        |        |
|                               | REX113A † | •      | •      |         |        |        |
| Hex Head Fastener Extractors  | REX114A † | •      | •      |         |        |        |
|                               | REX115A † | •      | •      |         |        |        |
|                               | REX116A † | •      | •      |         |        |        |
|                               | BEX081 †  | •      |        |         |        |        |
|                               | BEX101 †  | •      |        |         |        |        |
|                               | BEX121 †  | •      |        |         |        |        |
|                               | BEXM101 † | •      |        |         |        |        |
|                               | BEX141 †  | •      |        |         |        |        |
|                               | BEXM121 † | •      |        |         |        |        |
|                               | BEX161 †  | •      |        |         |        |        |
| BEXM131 †                     | •         |        |        |         |        |        |
| BEX181 †                      | •         |        |        |         |        |        |
| BEX201 †                      | •         |        |        |         |        |        |
| BEX221 †                      | •         |        |        |         |        |        |
| BEXM171 †                     | •         |        |        |         |        |        |
| BEX241 †                      | •         |        |        |         |        |        |



• †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## EXTRACTORS: EXTRACTOR TOOLS



EXD10



EXDL10



E1025



E1020



REX25B



REX10B



REX15B

### Combination Extractor Sets

#### EXD10 10 pc Right-Hand Extractor Set

- Includes (5) right-hand, mechanic's-length cobalt drill bits (19/64, 1/4, 5/32, 5/64 and 7/64") and (5) spiral flute screw extractors (EX1, EX2, EX3, EX4, EX5) in a metal index

#### EXDL10 10 pc Left-Hand Extractor Set

- Includes (5) left-hand, mechanic's-length cobalt drill bits (19/64, 1/4, 5/32, 5/64 and 7/64") and (5) spiral flute screw extractors (EX1, EX2, EX3, EX4, EX5) in a metal index

#### E1025 39 pc Extractor Set (Blue-Point®)

- Extract broken screws from 1/4–1" dia. and standard pipe sizes 1/8–1"
- Includes (8) right-hand drill bits, (10) solid-type drill guides, (1) sleeve spacer, (2) sleeve-type drill guides, (4) sleeve bushings, (8) straight screw extractors and (6) pipe plug extractors
- Includes a storage case

#### E1020 19 pc Extractor Set (Blue-Point®)

- Extract broken screws from 1/4–1/2" diameter
- Includes (5) right-hand drill bits (1/8, 3/16, 1/4, 5/16 and 11/32"), (9) solid-type drill guides (9/32–9/16" diameter) and (5) straight screw extractors plus hex collars (#1–5)
- Includes a storage case

### Multispline Extractors

- Shoulder prevents the extractor from entering too deeply and expanding the screw

#### REX25B 25 pc Multispline Extractor Set

- Includes (25) multispline extractors REX104A–REX128A (1/8–7/8")
- Includes a REX25BMT storage case

#### REX10B 10 pc Multispline Extractor Set

- Includes REX104A–REX113A (1/8–13/32") (10 pc) in a REX10BMT storage case

#### REX15B 15 pc Multispline Extractor Set

- Includes (15) multispline extractors 1/8–9/16" in a REX15BMT storage case

| Stock No. | Drill Size, inches | Bolt Size, inches | Pipe Size, inches | Hex Size, inches | Mark |
|-----------|--------------------|-------------------|-------------------|------------------|------|
| REX104A   | 1/8                | 1/4               | —                 | 1/2              | A    |
| REX105A   | 5/32               | 5/16              | —                 | 1/2              | B    |
| REX106A   | 3/16               | 3/8               | —                 | 1/2              | C    |
| REX107A   | 7/32               | 7/16              | —                 | 1/2              | D    |
| REX108A   | 1/4                | 1/2               | 1/8               | 1/2              | E    |
| REX109A   | 9/16               | 9/32              | —                 | 1/2              | F    |
| REX110A   | 5/16               | 5/8               | —                 | 1/2              | G    |
| REX111A   | 11/32              | 11/16             | 1/4               | 1/2              | H    |
| REX112A   | 3/8                | 3/4               | —                 | 1/2              | I    |
| REX113A   | 13/32              | 13/16             | —                 | 1/2              | J    |
| REX114A   | 7/16               | 7/8               | —                 | 5/8              | K    |
| REX115A   | 15/32              | 15/16             | 3/8               | 5/8              | L    |
| REX116A   | 1/2                | 1                 | —                 | 5/8              | M    |
| REX117A   | 17/32              | 1-1/16            | —                 | 5/8              | N    |
| REX118A   | 9/16               | 1-1/8             | —                 | 3/4              | O    |
| REX119A   | 19/32              | 1-3/16            | —                 | 3/4              | P    |
| REX120A   | 5/8                | 1-1/4             | 1/2               | 3/4              | Q    |
| REX121A   | 21/32              | 1-5/16            | —                 | 7/8              | R    |
| REX122A   | 11/16              | 1-3/8             | —                 | 7/8              | S    |
| REX123A   | 23/32              | 1-7/16            | —                 | 7/8              | T    |
| REX124A   | 3/4                | 1-1/2             | —                 | 7/8              | U    |
| REX125A   | 25/32              | 1-9/16            | 3/4               | 1                | V    |
| REX126A   | 13/16              | 1-5/8             | —                 | 1                | W    |
| REX127A   | 27/32              | 1-11/16           | —                 | 1                | X    |
| REX128A   | 7/8                | 1-3/4             | —                 | 1                | Y    |

Sets include REX15BMT plastic storage case.

## Hex Head Fastener Extractors

- Used on most popular hex head fasteners from 1/4–1" (8–24 mm)
- Sockets feature left-hand spiral flutes for maximum gripping power
- Manufactured from high-carbon steel for maximum strength
- External hex and square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations



BEX13A



BEX5B

Set Contains:

BEX13A

BEX5B

| Stock No. | Square Drive, inches | Size, inches (mm) | External Hex, inches (mm) | Outside Dia., inches (mm) | Length, inches (mm) |   |   |
|-----------|----------------------|-------------------|---------------------------|---------------------------|---------------------|---|---|
| BEX081    | 3/8                  | 1/4 (6)           | 5/8 (15.9)                | 3/8 (9.5)                 | 1-1/16 (27.0)       | • |   |
| BEX101    | 3/8                  | 5/16 (8)          | 5/8 (15.9)                | 7/16 (11.1)               | 1-1/16 (27.0)       | • |   |
| BEX121    | 3/8                  | 3/8 (10)          | 5/8 (15.9)                | 9/16 (14.3)               | 1-1/16 (27.0)       | • |   |
| BEXM101   | 3/8                  | N/A (10)          | 3/4 (19.1)                | 5/8 (15.5)                | 1-1/16 (27.0)       | • |   |
| BEX141    | 3/8                  | 7/16 (11)         | 3/4 (19.1)                | 5/8 (15.9)                | 1-1/16 (27.0)       | • |   |
| BEXM121   | 3/8                  | N/A (12)          | 3/4 (19.1)                | 23/32 (17.5)              | 1-1/16 (27.0)       | • |   |
| BEX161    | 3/8                  | 1/2 (12)          | 3/4 (19.1)                | 23/32 (17.9)              | 1-1/16 (27.0)       | • |   |
| BEXM131   | 3/8                  | N/A (13)          | 3/4 (19.1)                | 23/32 (18.5)              | 1-1/16 (27.0)       | • |   |
| BEX181    | 3/8                  | 9/16 (14)         | 7/8 (22.2)                | 25/32 (19.4)              | 1-1/16 (27.0)       | • |   |
| BEX201    | 3/8                  | 5/8 (16)          | 7/8 (22.2)                | 7/8 (21.8)                | 1-1/16 (27.0)       | • |   |
| BEXM171   | 3/8                  | N/A (17)          | 1 (25.4)                  | 29/32 (23.0)              | 1-1/16 (27.0)       | • |   |
| BEX221    | 3/8                  | 11/16 (17.4)      | 1 (25.4)                  | 15/16 (24.2)              | 1-1/16 (27.0)       | • |   |
| BEX241    | 3/8                  | 3/4 (19)          | 1-1/16 (27)               | 1-1/32 (26.2)             | 1-1/16 (27.0)       | • |   |
| BEXW241   | 1/2                  | 3/4 (19)          | 1-1/4 (31.8)              | 1-1/8 (28.6)              | 1-3/4 (44.5)        |   | • |
| BEXW261   | 1/2                  | 13/16 (21)        | 1-3/8 (34.9)              | 1-3/16 (30.2)             | 1-3/4 (44.5)        |   | • |
| BEXW281   | 1/2                  | 7/8 (22)          | 1-7/16 (36.5)             | 1-1/4 (31.8)              | 1-3/4 (44.5)        |   | • |
| BEXW301   | 1/2                  | 15/16 (24)        | 1-7/16 (36.5)             | 1-5/16 (33.3)             | 1-3/4 (44.5)        |   | • |
| BEXW321   | 1/2                  | 1 (25.4)          | 1-7/16 (36.5)             | 1-3/8 (34.9)              | 1-3/4 (44.5)        |   | • |

## External Drive Hex Head Slim Twist Sockets

### 110STSZA 10 pc External Drive Twist Socket Set (Blue-Point®)

- Quickly and easily remove damaged or rounded nuts and bolts, socket head cap screws in close quarters, and nuts threaded on long studs
- Ideal for aircraft and exhaust systems applications
- Includes (10) external hex drive slim twist sockets for the following hex head fasteners: SAE 3/8, 7/16, 5/8 and 3/4" and Metric 9–17 and 19 mm
- Sockets are stored on a MSR1 Magnetic Socket Holder



110STSZA

Set Contains:

110STSZA

| Stock No.  | Nut/Bolt Size, inches (mm) | Socket Number | External Hex, inches | Socket Thickness, inches (mm) | Finish           |   |
|------------|----------------------------|---------------|----------------------|-------------------------------|------------------|---|
| 110STSZA1  | 3/8 (9)                    | #1            | 5/8                  | 0.38 (9.5)                    | Industrial Black | • |
| 110STSZA2  | (10)                       | #2            | 5/8                  | 0.38 (9.5)                    | Industrial Black | • |
| 110STSZA3  | 7/16 (11)                  | #3            | 11/16                | 0.38 (9.5)                    | Industrial Black | • |
| 110STSZA4  | (12)                       | #4            | 3/4                  | 0.38 (9.5)                    | Industrial Black | • |
| 110STSZA5  | (13)                       | #5            | 3/4                  | 0.50 (12.7)                   | Industrial Black | • |
| 110STSZA6  | (14)                       | #6            | 13/16                | 0.50 (12.7)                   | Industrial Black | • |
| 110STSZA7  | (15)                       | #7            | 7/8                  | 0.50 (12.7)                   | Industrial Black | • |
| 110STSZA8  | 5/8 (16)                   | #8            | 15/16                | 0.62 (15.9)                   | Industrial Black | • |
| 110STSZA9  | (17)                       | #9            | 1                    | 0.62 (15.9)                   | Industrial Black | • |
| 110STSZA10 | 3/4 (19)                   | #10           | 1-1/16               | 0.62 (15.9)                   | Industrial Black | • |



**WARNING**



• Read safety precautions on pages W1 to W4

## EXTRACTORS: EXTRACTOR TOOLS



BEXD9

### BEXD Deep Well Extractors

- External hex and 3/8" square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations
- Deep well design fits over exposed studs and reaches recessed fasteners
- Reverse spiral flutes bite into stubborn fasteners, both fractional and metric, with maximum gripping power
- Reduced profile head enables use in confined spaces

| Stock No. | Size  | Length, inches | Set Contains: |
|-----------|-------|----------------|---------------|
| BEXD081   | 1/4"  | 2-7/16         | •             |
| BEXD101   | 5/16" | 2-7/16         | •             |
| BEXD121   | 3/8   | 2-7/16         | •             |
| BEXD141   | 7/16" | 2-7/16         | •             |
| BEXD161   | 1/2"  | 2-7/16         | •             |
| BEXD181   | 9/16" | 2-7/16         | •             |
| BEXD201   | 5/8"  | 2-7/16         | •             |
| BEXD241   | 3/4"  | 2-7/16         | •             |
| BEXDM131  | 13 mm | 2-7/16         | •             |

Set Contains: **BEXD9**

Set include storage case.



SR40K

### Tapered Bit Extractors

- Tapered ends have left hand threads to bite deep into drilled studs
- Square shafts for use with wrench

| Stock No. | Description                 | Set Contains: |
|-----------|-----------------------------|---------------|
| SR10A     | 9/64" Tapered Bit Extractor | •             |
| SR14      | 7/32" Tapered Bit Extractor | •             |
| SR20      | 5/16" Tapered Bit Extractor | •             |
| SR4A      | 1/8" Tapered Bit Extractor  | •             |
| C0407     | Kit Bag                     | •             |

Set Contains: **SR40K**



BET7

### Power Fastener Extractors (Blue-Point®)

- Extract hex head, socket head, round head and other fasteners
- 1/4" universal hex shank is ideal for use with cordless, air or electric drills, impact wrenches, nut runners and hand tools
- Power groove for use with quick change adaptors
- Reverse spiral flutes hold on to fastener heads
- High-carbon steel shank is larger than most fastener shanks and resists torsional shear

| Stock No. | Size, inches (mm) | Set Contains: |
|-----------|-------------------|---------------|
| BET76     | 3/16 (5)          | •             |
| BET78     | 1/4 (6)           | •             |
| BET710    | 5/16 (8)          | •             |
| BET712    | 3/8 (10)          | •             |
| BETM710   | 25/64 (10)        | •             |
| BET714    | 7/16 (11)         | •             |
| BET716    | 1/2 (12)          | •             |

Set Contains: **BET7**

Set includes storage case.

## Solid-Type Drill Guides

- Used for centering drills at a depth not exceeding 1"

| Stock No. | Outside Dia., inches | For Drill Size, inches | Length, inches |
|-----------|----------------------|------------------------|----------------|
| E921      | 9/32                 | 1/8                    | 1-3/16         |
| E1021     | 5/16                 | 1/8                    | 1-3/16         |
| E1121     | 11/32                | 1/8                    | 1-3/16         |
| E1221     | 3/8                  | 1/8                    | 1-3/16         |
| E1321     | 13/32                | 3/16                   | 1-3/16         |
| E1421     | 7/16                 | 3/16                   | 1-3/16         |
| E1521     | 15/32                | 3/16                   | 1-3/16         |
| E1621     | 1/2                  | 3/16                   | 1-3/16         |
| E1721     | 17/32                | 1/4                    | 1-3/16         |
| E1821     | 9/16                 | 1/4                    | 1-3/16         |



E921

## EXTRACTORS: STUD REMOVERS



CSE405B

### Right-Hand Fractional Drill Bits

- Use right-hand drill bits to make a hole in the broken screw before the extractor is inserted

| Stock No.  | Size, inches | Flute Length, inches | Overall Length, inches |
|------------|--------------|----------------------|------------------------|
| CSE405B‡   | 5/8          | 3                    | 6                      |
| DBF1/2C‡   | 1/2          | 2-1/4                | 4-3/4                  |
| DBF1/4C‡   | 1/4          | 2-1/2                | 4                      |
| DBF1/8C‡   | 1/8          | 1-3/8                | 3                      |
| DBF11/32C‡ | 11/32        | 2-3/4                | 4-1/2                  |
| DBF3/16C‡  | 3/16         | 2                    | 3-1/2                  |
| DBF5/16C‡  | 5/16         | 2-5/8                | 4-1/2                  |
| DBF7/16C‡  | 7/16         | 1-7/8                | 4-1/4                  |



EX1

### Spiral Flute Screw Extractors

- Designed to remove broken studs, bolts, socket screws and fittings
- Aggressive left-hand spiral design for extra gripping power

| Stock No. | Use Drill Size, inches | Removes Bolts and Screws               |
|-----------|------------------------|--|
| EX1       | 5/64                   | 3/32–5/32", 2.5–4 mm, #3–#6            |
| EX2       | 7/64                   | 5/32–7/32", 4–6 mm, #6–#12             |
| EX3       | 5/32                   | 7/32–9/32", 6–8 mm, #12                |
| EX4       | 1/4                    | 9/32–3/8", 1/8" NPT, 1/8" BSP, 8–10 mm |
| EX5       | 19/64                  | 3/8–5/8", 1/4" NPT, 1/4" BSP, 10–16 mm |
| EX6       | 13/32                  | 5/8–7/8", 3/8" NPT, 3/8" BSP, 16–22 mm |



E80

### Pipe Plug Extractors

| Stock No. | For Screw Dia. or Std. Pipe, inches | Drill Size, inches | Length, inches |
|-----------|-------------------------------------|--------------------|----------------|
| E80       | 1/8                                 | 17/64              | 2-1/4          |
| E81       | 1/4                                 | 3/8                | 2-1/2          |
| E82       | 3/8                                 | 1/2                | 2-3/4          |
| E83       | 5/8                                 | 5/8                | 3              |
| E84       | 3/4                                 | 13/16              | 3-1/4          |
| E85       | 1                                   | 1-1/16             | 3-1/2          |



E1



E6

### Straight Screw Extractors

|                              | Stock No. | For Screw Dia. or Std. Pipe, inches | Drill Size, inches | Length, inches |
|------------------------------|-----------|-------------------------------------|--------------------|----------------|
| Straight Screw, Hex Nut Type | E1        | 1/4                                 | 1/8                | 2-5/16         |
|                              | E2        | 5/16                                | 3/16               | 2-3/4          |
|                              | E4        | 7/16                                | 5/16               | 3-5/16         |
|                              | E5        | 1/2                                 | 11/32              | 3-3/4          |
|                              | E6        | 1/2                                 | 7/16               | 4-1/8          |
|                              | E7        | 3/4                                 | 1/2                | 4-1/2          |
|                              | E8        | 1                                   | 1/2                | 4-5/8          |



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## EXTRACTORS: STUD REMOVERS



YA2019



YA2020



YA789



A50A



A36A



LA55A



LA54

### Cam- and Wedge-Type Stud Removers

#### A50A Stud Remover

- 7/16–1/2" capacity
- V-shaped rack grips the stud
- Grip releases when pressure is relieved
- Uses a 1/2" drive handle

#### A50-4B Optional Rack

- 5/16–3/8" capacity

#### A36A Stud Remover

- 1/2–3/4" capacity
- Knurled wheel grips the stud
- Driving shank extends through both sides of the housing for bearing surface on each side of the wheel
- Uses a 1/2" drive handle

#### A80A Stud Remover

- 1/4–1/2" capacity
- Jaws grip when pressure is applied
- Built-in ratchet action
- Needs only 1-1/4" clearance
- Use with 1/2" drive handle or 1" wrench

#### LA55A Stud Remover

- 9/16–1" capacity
- Grip is released by turning the tool in reverse direction
- Works on wedge principle
- Use with a 3/4" drive handle
- Includes two wedge sizes: LA55A2 and LA55A3

#### LA54 Stud Remover

- 1/4–5/8" capacity
- Smaller version of LA55A
- Requires a 1/2" drive handle
- Includes two wedge sizes: LA54-2A and LA54-3A

#### LA54-2A Wedge

#### LA54-3A Wedge

#### LA55A2 Wedge

#### LA55A3 Wedge

### Extractor Set

Set Contains: YA769

| Stock No. | Drilling Speed, RPM | Extractor Size SAE |   |
|-----------|---------------------|--------------------|---|
| YA769-1   | 700–800             | 1/4                | • |
| YA769-2   | 650–750             | 5/16               | • |
| YA769-3   | 600–700             | 3/8                | • |
| YA769-4   | 475–575             | 1/2                | • |

Set includes storage case.

#### YA769 Extractor Set (Blue-Point®)

- Extract broken screws from 1/4–1/2" dia
- Drill/extract with one tool
- Left-hand drill bit
- For use in 3/8" drive reversible drill

Set Contains: YA2019

| Stock No. | Description                      | Extractor Size Bolt Size |   |
|-----------|----------------------------------|--------------------------|---|
| YA2019-1  | Fastener Extractor (Blue-Point®) | #6, #8                   | • |
| YA2019-2  | Fastener Extractor (Blue-Point®) | #8, #10                  | • |
| YA2019-3  | Fastener Extractor (Blue-Point®) | #10, #12                 | • |

Set includes storage case.

#### YA2019 Screw Remover Set (Blue-Point®)

- Use to remove damaged PHILLIPS®, TORX®, Pozidriv®, slotted, internal hex, Tri-Wing®, Frearson and most tamper-resistant screws and fasteners
- Tool bites into the damaged fastener in the reverse direction, allowing the user to easily remove damaged screws
- Used with a variable-speed reversing drill or 1/4" hex bit screwdriver

#### YA2020 Screw Extractor Set (Blue-Point®)

- Easily extracts #6–#14 damaged screws from wood, metal or plastic
- Remove hex, TORX®, PHILLIPS®, slotted or square head screws
- Use with 1/4" quick disconnect or 1/4" hex hand or power tool
- Works with a variety of screw materials

Set Contains: YA789

| Stock No. | Extractor Size Bolt Size | Extractor Size SAE | Extractor Size Metric |   |
|-----------|--------------------------|--------------------|-----------------------|---|
| YA789-1   | —                        | #5, #6             | M3                    | • |
| YA789-2   | —                        | #8                 | M4                    | • |
| YA789-3   | #10, #12                 | —                  | M5                    | • |
| YA789-4   | —                        | 1/4"               | M6                    | • |

Set includes storage case.

#### YA789 Power Extractor Set (Blue-Point®)

- Easy to use—place the extractor end of the tool into the drill chuck, set for reverse and the hole can be drilled
- Insert the drill side into the chuck, exposing the extractor end and finish the job to remove the broken screw

# EXTRACTORS: STUD REMOVERS



CG5151



CG5152



CG505



CG500-17

## Stud Removers

- Tapered collets thread onto the stud, even if only a few threads are exposed
- Tightening the housing bolt draws the collet into the housing and clamps the collet onto the stud
- Tools reduce the chance of damage to stud threads
- Avoid bottoming or shouldering the studs, shearing or damaging the stud or workpiece

## Stud Remover Set Components

| Stock No. | Housing Stock No. | Collet Size | Set Contains: |        |       |
|-----------|-------------------|-------------|---------------|--------|-------|
|           |                   |             | CG5151        | CG5152 | CG505 |
| CG500-4   | CG500-2           | 1/4"-28     | •             | •      |       |
| CG500-5   | CG500-2           | 5/16"-18    | •             | •      |       |
| CG500-6   | CG500-2           | 5/16"-24    | •             | •      |       |
| CG500-7   | CG500-2           | 3/8"-16     | •             | •      |       |
| CG500-9   | CG500-2           | 7/16"-14    | •             | •      |       |
| CG500-11  | CG500-2           | 1/2"-13     | •             | •      |       |
| CG500-13  | CG500-2           | 9/16"-12    | •             | •      |       |
| CG500-15  | CG500-2           | 5/8"-11     | •             | •      |       |
| CG500-17  | CG500-2           | #10-24      | •             |        |       |
| CG500-18  | CG500-2           | #10-32      | •             |        |       |
| CG500H1   | CG500-2           | 3/8" Hex    | •             |        |       |
| CG500H2   | CG500-2           | 7/16" Hex   | •             |        |       |
| CG500H4   | CG500-2           | 9/16" Hex   |               |        |       |
| CG505-3   | CG505-1           | 7/8"-9      |               |        | •     |
| CG505-4   | CG505-1           | 1"-8        |               |        | •     |
| CG505-5   | CG505-1           | 3/4"-16     |               |        |       |
| CG505-6   | CG505-1           | 7/8"-14     |               |        |       |
| CG505-7   | CG505-1           | 1"-14       |               |        |       |
| CG505-8   | CG505-1           | 11/16"-16   |               |        |       |
| CG505H2   | CG505-1           | 11/16" Hex  |               |        |       |
| CG505H3   | CG505-1           | 3/4" Hex    |               |        |       |
| CG505H4   | CG505-1           | 13/16" Hex  |               |        |       |
| CG505H5   | CG505-1           | 7/8" Hex    |               |        |       |
| CG508-2   | CG508             | 1-1/8"-12   |               |        |       |
| CG508-4   | CG508             | 1-1/4"-12   |               |        |       |
| CG508-5   | CG508             | 1-3/8"-6    |               |        |       |
| CG508-6   | CG508             | 1-3/8"-12   |               |        |       |
| CG508-9   | CG508             | 1-1/8"-8    |               |        |       |
| CG508-11  | CG508             | 1-3/8"-8    |               |        |       |
| CG508-12  | CG508             | 1-1/2"-8    |               |        |       |
| CG500-30  | CG500-2           | M6-1.00     | •             |        |       |
| CG500-33  | CG500-2           | M7-1.00     | •             |        |       |
| CG500-36  | CG500-2           | M8-1.00     | •             |        |       |
| CG500-39  | CG500-2           | M9-1.00     | •             |        |       |
| CG500-40  | CG500-2           | M9-1.25     | •             |        |       |
| CG500-42  | CG500-2           | M10-1.25    | •             |        |       |
| CG500-48  | CG500-2           | M12-1.25    | •             |        |       |
| CG500-49  | CG500-2           | M12-1.50    | •             |        |       |
| CG500-54  | CG500-2           | M14-1.50    | •             |        |       |
| CG500-55  | CG500-2           | M14-2.00    | •             |        |       |
| CG500-60  | CG500-2           | M16-1.50    | •             |        |       |
| CG500-61  | CG500-2           | M16-2.00    |               |        |       |
| CG500-2   | CG500-2           | Housing     |               |        | •     |
| CG505-1   | CG500-2           | Housing     |               |        | •     |



• Read safety precautions on pages W1 to W4

## EXTRACTORS: STUD REMOVERS



MSK16

### Stud Removers

Set Contains: *MSK16*

| Stock No. | Description                               |   |
|-----------|---|---|
| MSK-0820N | Install Tool 1/4" x 20 TPI (Blue-Point®)  | • |
| MSK-0820R | Remove Tool 1/4" x 20 TPI (Blue-Point®)   | • |
| MSK-0828N | Install Tool 1/4" x 28 TPI (Blue-Point®)  | • |
| MSK-0828R | Remove Tool 1/4" x 28 TPI (Blue-Point®)   | • |
| MSK-1613N | Install Tool 1/2" x 13 TPI (Blue-Point®)  | • |
| MSK-1613R | Remove Tool 1/2" x 13 TPI (Blue-Point®)   | • |
| MSK-1620N | Install Tool 1/2" x 20 TPI (Blue-Point®)  | • |
| MSK-1620R | Remove Tool 1/2" x 20 TPI (Blue-Point®)   | • |
| MSK-1812N | Install Tool 9/16" x 12 TPI (Blue-Point®) | • |
| MSK-1812R | Remove Tool 9/16" x 12 TPI (Blue-Point®)  | • |
| MSK-1818N | Install Tool 9/16" x 18 TPI (Blue-Point®) | • |
| MSK-1818R | Remove Tool 9/16" x 18 TPI (Blue-Point®)  | • |
| MSK-2011N | Install Tool 5/8" x 11 TPI (Blue-Point®)  | • |
| MSK-2011R | Remove Tool 5/8" x 11 TPI (Blue-Point®)   | • |
| MSK-2018N | Install Tool 5/8" x 18 TPI (Blue-Point®)  | • |
| MSK-2018R | Remove Tool 5/8" x 18 TPI (Blue-Point®)   | • |



MSKMA10

### Stud Removers

Set Contains: *MSKMA10*

| Stock No.   | Description             |   |
|-------------|-------------------------|---|
| MSK-M12125N | M12 x 1.25 Install Tool | • |
| MSK-M12125R | M12 x 1.25 Remove Tool  | • |
| MSK-M14125N | M14 x 1.25 Install Tool | • |
| MSK-M14125R | M14 x 1.25 Remove Tool  | • |
| MSK-M1415N  | M14 x 1.5 Install Tool  | • |
| MSK-M1415R  | M14 x 1.5 Remove Tool   | • |
| MSK-M1620N  | M16 x 2.0 Install Tool  | • |
| MSK-M1620R  | M16 x 2.0 Remove Tool   | • |
| MSK-M1825N  | M18 x 2.5 Install Tool  | • |
| MSK-M1825R  | M18 x 2.5 Remove Tool   | • |



MSK10

### Stud Removers

Set Contains: *MSK10*

| Stock No. | Description    |   |
|-----------|----------------|---|
| MSK-1018N | Stud Installer | • |
| MSK-1018R | Stud Remover   | • |
| MSK-1024N | Stud Installer | • |
| MSK-1024R | Stud Remover   | • |
| MSK-1216N | Stud Installer | • |
| MSK-1216R | Stud Remover   | • |
| MSK-1224N | Stud Installer | • |
| MSK-1224R | Stud Remover   | • |
| MSK-1414N | Stud Installer | • |
| MSK-1414R | Stud Remover   | • |
| MSK-PB    | Storage Case   | • |



MSKM10

### Stud Removers

Set Contains: *MSKM10*

| Stock No.   | Description    |   |
|-------------|----------------|---|
| MSK-M610N   | Stud Installer | • |
| MSK-M610R   | Stud Remover   | • |
| MSK-M8125N  | Stud Installer | • |
| MSK-M8125R  | Stud Remover   | • |
| MSK-M10125N | Stud Installer | • |
| MSK-M10125R | Stud Remover   | • |
| MSK-M1015N  | Stud Installer | • |
| MSK-M1015R  | Stud Remover   | • |
| MSK-M1215N  | Stud Installer | • |
| MSK-M1215R  | Stud Remover   | • |
| MSKM-PB     | Storage Case   | • |



# EXTRACTORS: DOWEL PIN PULLERS



## Dowel Pin Puller Sets Components

| Stock No. | Collet Size                         | Set Contains: | CG503 | CGM503 | CG503S | CG513 |
|-----------|-------------------------------------|---------------|-------|--------|--------|-------|
|           |                                     |               |       |        |        |       |
| CG503-1   | Housing (1-3/8")                    |               | •     | •      | •      |       |
| CG503-2   | 1/4"                                |               | •     |        |        |       |
| CG503-3   | 5/16"                               |               | •     |        |        |       |
| CG503-4   | 3/8"                                |               | •     |        |        |       |
| CG503-5   | 7/16"                               |               | •     |        |        |       |
| CG503-6   | 1/2"                                |               | •     |        |        |       |
| CG503-7   | 9/16"                               |               | •     |        |        |       |
| CG503-8   | 5/8"                                |               | •     |        |        |       |
| CG10F     | Cross Bar                           |               | •     | •      | •      |       |
| CG250-8A  | Slide Screw, 5/8"-18 UNF x 18-9/16" |               | •     | •      | •      |       |
| CG250-9   | Slide Hammer, 2 lb                  |               | •     | •      | •      |       |
| CG503S1   | 3/8" Square                         |               |       |        |        |       |
| CG503-9   | 6 mm                                |               |       | •      |        |       |
| CG503-10  | 8 mm                                |               |       | •      |        |       |
| CG503-11  | 10 mm                               |               |       | •      |        |       |
| CG503-12  | 12 mm                               |               |       | •      |        |       |
| CG503-13  | 14 mm                               |               |       | •      |        |       |
| CG503-14  | 16 mm                               |               |       | •      |        |       |
| CG325-6   | Nut                                 |               |       | •      | •      |       |
| CG513-1   | Housing (2-1/8")                    |               |       |        |        |       |
| CG513-2   | Slide Screw                         |               |       |        |        | •     |
| CG513-3   | Nut                                 |               |       |        |        | •     |
| CG513-4   | 3/4"                                |               |       |        |        | •     |
| CG513-5   | 7/8"                                |               |       |        |        | •     |
| CG513-6   | 1"                                  |               |       |        |        | •     |
| CG45670   | Slide Hammer, 10 lb                 |               |       |        |        | •     |
| CG513S1   | 1/2" Square                         |               |       |        |        |       |
| CG513S2   | 5/8" Square                         |               |       |        |        |       |

## Heavy-Duty Housing with Collet

- Collets are threaded to order; specify stud thread size when ordering (example: CG510 1-3/4"-10 collet)
- Avoid bottoming or shouldering the studs to eliminate shearing or damaging the stud or workpiece

## CG510 Heavy-Duty Housing with Collet

- For larger stud sizes 1-5/8-2"

## CG511 Heavy-Duty Housing with Collet

- For larger stud sizes 2-2-1/2"

## CG512 Heavy-Duty Housing with Collet

- For larger stud sizes 2-1/2-3"



CG500-23

CG500-2

## Serrated Collets

- Serrated gripping portions are used to remove unthreaded studs that cannot be removed with standard collets due to lack of gripping surface
- Avoid bottoming or shouldering studs to avoid shearing or damaging stud or workpiece

| Stock No. | Collet Size  |
|-----------|--------------|
| CG500-20  | 1/4" Collet  |
| CG500-21  | 5/16" Collet |
| CG500-22  | 3/8" Collet  |
| CG500-23  | 7/16" Collet |
| CG500-24  | 1/2" Collet  |
| CG500-2   | Housing      |



CG500P

CG505P

## Pipe Nipple Remover Set Components

| Stock No. | Collet Size | Housing Stock No. | Set Contains: |        |
|-----------|-------------|-------------------|---------------|--------|
|           |             |                   | CG500P        | CG505P |
| CG500P1   | 1/8" NPT    | CG500-2           | •             |        |
| CG500P2   | 1/4" NPT    | CG500-2           | •             |        |
| CG500P3   | 3/8" NPT    | CG500-2           | •             |        |
| CG505P1   | 1/2" NPT    | CG505-1           |               | •      |
| CG505P2   | 3/4" NPT    | CG505-1           |               | •      |
| CG508P1   | 1" NPT      | CG508-2           |               |        |
| CG508P2   | 1-1/4" NPT  | CG508-2           |               |        |
| CG508-2   | 1-1/8"-12   | CG508             |               |        |
| CG508     | Housing     | CG500-2           |               |        |
| CG500-2   | Housing     | CG500-2           | •             |        |
| CG505-1   | Housing     | CG500-2           |               | •      |

Note: Avoid bottoming or shouldering the studs to eliminate shearing or damaging the stud or workpiece.

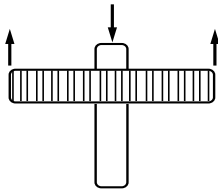


• Read safety precautions on pages W1 to W4

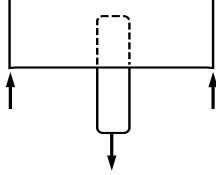
# PULLERS

## What type of puller do I want to use? What combination will work best?

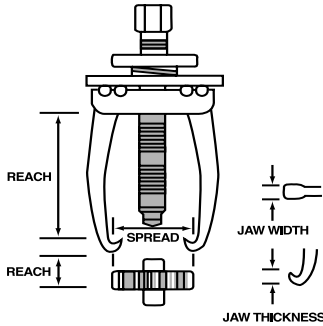
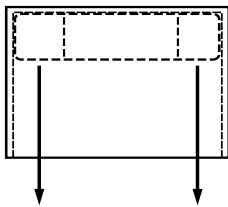
Removing a Gear, Bearing, Pulley, or Other Component from a Shaft



Pulling a Shaft Out of a Housing or Bore



Removing a Bearing or Bushing from a Blind Hole



### Tools to Use

**Jaw-Type Puller:** Two- or three-jaw style, with three jaw being the best choice. Manual or hydraulic with outside jaw positions.

**Push-Pull Puller:** Use male or female adaptors to thread into tapped holes on the components.

**Slide Hammer Puller:** Used on light-duty applications. For use with attachments.

**Bar-Type Puller with Bearing Separator:** Bar type with side rods threaded into the bearing separator provides a “knife edge” to get behind the component or when there is not a good gripping edge.

### Tools to Use

**Push-Pull Puller:** Use male or female adaptors.

**Bar-Type Puller with Bearing Separator:** Used when the housing lacks sufficient surface for puller side rods to bear against.

**Slide Hammer Puller:** Used on light-duty applications. For use with attachments.

**Slide Hammer Puller:** Use with male or female adaptors. See this section for a full listing of compatible adaptors.

### Tools to Use

**Jaw-Type Puller:** For inside jaw positions (inside pulls), a manual or hydraulic jaw-type puller can be used with pressure screw or slide hammer variations.

**Expanded Collet Puller:** The inside diameter should range between 1/4 and 7". Pulling can be done with bridge, bar-type yokes or slide hammers.

**Bearing Adaptors with Slide Hammer Puller:** CJ127A, CJ128A and CJ137 bearing adaptors with a CJ97-3A slide hammer should be used in this application.

**Bar-Type Puller with Bearing Separator:** Bar type with side rods threaded into the bearing separator provides a “knife edge” to get behind the components or when there is not a good gripping edge.

### Determine the “Reach” and “Spread” Needed

The puller’s reach must equal or exceed the same distance on the part. The puller’s spread is the width of the part.

#### Estimate the Puller Tonnage

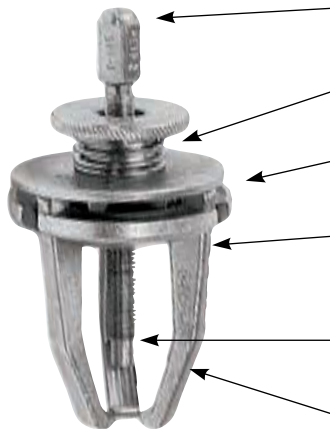
Generally, if you already have the correct “reach” and “spread”, you will usually have the proper tonnage. If in doubt, use the next larger size.

### General Rules for Choosing Pullers

**Manual Pullers:** Pressure screw should be at least half the diameter of the shaft on the pulling/pushing job.

**Hydraulic Pullers:** Maximum tonnage capacity (tons) should be 8 to 10 times the diameter (in inches) of the shaft to be pulled or pushed.

### Snap-on® Puller Features



**Anvil Head:** Curved at the top and features a hex design. The curved head provides a striking surface to handle those tough pulling jobs while the hex allows the pressure screw to be easily turned with a standard hex wrench or a socket.

**Spring-Loaded Locking Mechanism:** Snap-on® pullers feature a unique spring tension locking mechanism that allows the puller jaws to easily lock onto the work surface for both “outside” and “inside” pulling applications.

**Two-Position Yoke:** Allows jaws to be easily reversed to accommodate inside or outside pulling situations. Interchangeable yokes accommodate two and three jaw setups. Yokes are heat treated for additional strength and safety.

**One-Piece Jaw Construction:** Provides a stronger, safer jaw. Most competitive puller jaws have holes drilled through them to allow for a bracket attachment. This hole significantly weakens the competitor’s puller jaws.

**Forged Jaws:** Resist breakage, prolong tool life and provide additional strength.

**Replaceable Points:** Center pulling power to prevent cocking. Provide less friction and minimum drag for easier turning of the pressure screw during the pulling process. If damage occurs, simply replace the point and not the entire pressure screw.

**Curved Jaws:** Provide positive grip on the work surface.

# PULLERS: BAR-TYPE INTERCHANGEABLE

## Bar-Type Interchangeable Pullers

Interchangeable bartype pullers provide high-quality pulling equipment with the versatility needed to handle a wide variety of pulling functions. Standardized pressure screw threading, jaw retention and design mean that new components can be added to an existing puller to change its reach or spread in order to handle new or different applications. These Snap-on® bar-type pullers also feature:

- Replaceable pressure screw points help to keep the puller safely centered
- Multiposition yokes help keep the jaws properly aligned with the item being pulled
- Adjustable clamp bolts allow the jaws to be snugged up against the job for a safer, more convenient pull
- Spring ball pin retention securely holds the jaws while allowing for quick jaw changes



CJ83C

### CJ83C Pulley and Gear Puller

- Ideal for servicing crankshaft pulleys, gears and timing gears on a wide range of gasoline and diesel engines, including Cummins® accessory drives and water pumps
- Includes (2) 3/8"-16 x 3", 5/16"-18 x 2-1/2" and M10-1.5 x 65 mm bolts
- Nominal capacity is 3-1/2 ton



CJ82B

### CJ82B Pitman Arm Puller

- Handles many pitman arm applications and a wide variety of general pulling jobs
- Nominal capacity is 6 ton



CJ80A

### CJ80A A/C Pulley Puller

- Excellent for the removal of alternator, generator, power steering and crankshaft pulleys, harmonic balancers and fiber timing gears
- Includes an extra pair of jaws for versatility
- Nominal capacity is 7-1/2 ton



CJ85A

### CJ85A Truck Differential Side Bearing Puller

- Similar in appearance to CJ81D but bigger for handling truck applications
- Four centering plates are included
- Nominal capacity is 7-1/2 ton



CJ81D

### CJ81D Differential Side Bearing Puller

- Narrow jaws slip into housing grooves in the back of the bearing and let the jaws seat and pull along with the inner race
- Jaws are locked onto the bearing by a clamp bolt
- Four centering plates are included
- Nominal capacity is 6 ton

## CJ Series Major Components (see chart on next page)

| Specifications              | CJ80A                | CJ81D          | CJ82B          | CJ83C          | CJ85A          |
|-----------------------------|----------------------|----------------|----------------|----------------|----------------|
| Nominal Capacity, tons      | 7.5                  | 6              | 6              | 3.5            | 7.5            |
| Maximum Reach, inches       | D3: 1-5/8, D5: 1-3/8 | 1-5/8          | 2-1/4          | Variable       | 1-3/4          |
| Maximum Spread, inches      | 5                    | 3-3/8          | 3-3/8          | 5              | 5-1/2          |
| Pressure Screw Size, inches | 3/4-16 x 3-1/2       | 3/4-16 x 4-1/4 | 3/4-16 x 4-1/4 | 3/4-16 x 3-1/2 | 3/4-16 x 4-1/4 |
| Optional Jaws               | D1, D2, D4           | D1, D2, D4, D5 | D1, D2, D4, D5 | —              | D1, D2, D3, D5 |
| Optional Points             | C2                   | C2             | C2             | C2             | C2             |
| Optional Pressure Screws    | B1, B2               | B1, B3         | B1, B3         | B1, B2         | B1, B3         |
| A Yoke                      | A3                   | A4             | A4             | A4             | A3             |
| B, Pressure Screw           | B3                   | B2             | B2             | B3             | B2             |
| C Point                     | C1                   | C1             | C1             | C1             | C1             |
| D Jaws (2)                  | D3, D5               | D3             | D3             | —              | D4             |
| E Clamp Bolt                | E3                   | E4             | E4             | —              | E3             |
| F Washers (2)               | F1                   | F1             | F1             | F2, F3         | F1             |
| G Clamp Nuts (2)            | G1                   | G1             | G1             | —              | G1             |
| H Jaw Pins (2)              | H1                   | H1             | H1             | —              | H1             |
| J Adaptors                  | —                    | J1             | —              | —              | J2             |
| K Studs (2)                 | —                    | —              | —              | K1, K2, K3     | —              |



- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

# PULLERS: BAR-TYPE INTERCHANGEABLE



## CJ Interchangeable Pullers— Major Components

| A                     | Component           | Key No.  | Stock No. | Specific Dimensions    |                       | Set Contains: |       |       |       |       |
|-----------------------|---------------------|----------|-----------|------------------------|-----------------------|---------------|-------|-------|-------|-------|
|                       |                     |          |           | Usable Range, inches   | Pin Holes per Side    | CJ83C         | CJ82B | CJ81D | CJ85A | CJ80A |
|                       | Yoke                | A1       | CJ100-1   | 10-1/2-16              | 4                     |               |       |       |       |       |
|                       | Yoke                | A2       | CJ118-1   | 6-10-1/2               | 3                     |               |       |       |       |       |
|                       | Yoke                | A3       | CJ85-1    | 3-6-1/2                | 3                     |               |       |       | •     | •     |
|                       | Yoke                | A4       | CJ86-1    | 1-3/4-4-1/2            | 2                     | •             | •     | •     |       |       |
|                       | Pressure Screw      | B1       | CJ105-3   | 3/4-16 x 10-1/2        | 7/8                   |               |       |       |       |       |
|                       | Pressure Screw      | B2       | CJ83-2    | 3/4-16 x 6-11/16       | 7/8                   |               |       | •     | •     | •     |
|                       | Pressure Screw      | B3       | CJ83-3    | 3/4-16 x 5-1/8         | 7/8                   | •             |       |       |       | •     |
|                       |                     |          |           |                        |                       |               |       |       |       |       |
|                       |                     |          |           | Head Dia., inches      | Point Type            |               |       |       |       |       |
|                       | Point               | C1       | CJ66-15-3 | 5/8                    | 90° Outward           | •             | •     | •     | •     | •     |
|                       | Point               | C2       | CJ84-16   | 7/8                    | 90° Outward           |               |       |       |       |       |
|                       |                     |          |           | Maximum Reach, inches  |                       |               |       |       |       |       |
|                       | Jaws (2 needed)     | D1       | CJ116-1   | 8-1/4                  | —                     |               |       |       |       |       |
|                       | Jaws (2 needed)     | D2       | CJ282-1   | 4-3/8                  | —                     |               |       |       |       |       |
|                       | Jaws (2 needed)     | D3       | CJ81-2A   | 1-3/8                  | —                     |               |       | •     | •     | •     |
|                       | Jaws (2 needed)     | D4       | CJ85-2    | 1-3/4                  | —                     |               |       |       |       | •     |
|                       | Jaws (2 needed)     | D5       | CJ87-1    | 1-3/8                  | —                     |               |       |       |       | •     |
|                       |                     |          |           | Maximum Length, inches |                       |               |       |       |       |       |
|                       | Clamp Bolts         | E1       | CJ100A2   | 18                     | —                     |               |       |       |       |       |
|                       | Clamp Bolts         | E2       | CJ118-2A  | 11-1/2                 | —                     |               |       |       |       |       |
|                       | Clamp Bolts         | E3       | CJ85-3A   | 7-1/2                  | —                     |               |       |       |       | •     |
|                       | Clamp Bolts         | E4       | CJ86-4A   | 5                      | —                     |               |       | •     | •     |       |
|                       |                     |          |           | Inside Dia., inches    | Outside Dia., inches  |               |       |       |       |       |
|                       | Washer (2 needed)   | F1       | CJ85-4    | 15/32                  | 7/8                   |               |       | •     | •     | •     |
|                       | Washer (1 needed)   | F2       | ME5A54    | 11/32                  | 3/4                   | •             |       |       |       |       |
|                       | Washer (1 needed)   | F3       | ME5A55    | 9/32                   | 3/4                   | •             |       |       |       |       |
|                       |                     |          |           | Thread Size            |                       |               |       |       |       |       |
| Clamp Nuts (2 Needed) | G1                  | ME4A33   | 7/16 x 20 | —                      |                       |               | •     | •     | •     |       |
|                       |                     |          |           | Diameter, inches       | Length, inches        |               |       |       |       |       |
| Jaw Pins (2 needed)   | H1                  | CJ105-11 | 5/16      | 1-15/32                |                       |               | •     | •     | •     |       |
|                       |                     |          |           | Outside Dia., inches   | Step Diameter, inches |               |       |       |       |       |
|                       | Adaptors (Set of 4) | J1       | CJ81B1A   | 1-1/2                  | 1-1/8                 |               |       |       | •     |       |
|                       |                     |          | CJ81B2A   | 1-5/8                  | 1-1/4                 |               |       |       | •     |       |
|                       |                     |          | CJ81D1A   | 1-3/4                  | 1-1/8                 |               |       |       | •     |       |
|                       |                     |          | CJ81D2A   | 1-11/32                | 15/16                 |               |       |       | •     |       |
|                       | Adaptors (Set of 4) | J2       | CJ85-5    | 2                      | 1-1/2                 |               |       |       |       | •     |
|                       |                     |          | CJ85-6    | 2-1/8                  | 1-21/32               |               |       |       |       | •     |
|                       |                     |          | CJ85-7    | 2-1/2                  | 1-27/32               |               |       |       |       | •     |
| CJ85-8                |                     |          | 3-1/16    | 2-3/8                  |                       |               |       |       | •     |       |
|                       |                     |          |           | Thread x Length        |                       |               |       |       |       |       |
|                       | Studs (2 needed)    | K1       | ME3A44    | 3/4-16 x 3             | —                     |               |       | •     |       |       |
|                       | Studs (2 needed)    | K2       | ME3A45    | 5/16-18 x 2-1/2        | —                     |               |       | •     |       |       |
|                       | Studs (2 needed)    | K3       | ME3A75    | M10-1.5 x 65 mm        | —                     |               |       | •     |       |       |

Letters in chart refer to Key No. in chart below (A3, B1, C1, etc.)

## PULLERS: BAR-TYPE INTERCHANGEABLE

These puller sets are designed to provide the tools you need as your work grows. Start with one or more sets geared to specific tasks and build toward the ultimate set: the CJ2000A with display board and cabinet. No duplication in set contents or jaws. Yokes are interchangeable for added versatility.

### Master Interchangeable Puller Sets

#### CJ2000A Master Interchangeable Puller Set

- Includes all components for the CJ2001, CJ2002, CJ2003A, CJ2004 and CJ2005 puller sets

#### CJ2000S Master Interchangeable Puller Set

- Same as the CJ2000A, plus the VE200A tool control board

#### CJ2000SB Master Interchangeable Puller Set

- CJ2000A on the VE200A tool control board and KRA276D locking wall storage cabinet

#### CJ2001P Bolt Grip Puller Set

- Services steering wheels, flywheels, pulleys and gears with tapped holes
- Includes a four-position two- and three-way yoke, three different pressure screw tips and an assortment of SAE and metric bolts
- Approximate spread to bolt is 1-1/4"-3-13/16"
- Includes a PB54B storage case

#### ME3A10ASFM 5/16"-24 x 3" Bolt

#### ME3A15ASFM Hex Cap Screw 3/8"-24 x 1-1/2"

#### ME3A40SFM Hex Cap Screw M8-1.25 x 45 mm

#### ME3A41SFM Hex Cap Screw M8-1.25 x 90 mm

#### ME3A42SFM Hex Cap Screw M8-.25 x 65 mm

#### ME3A43SFM Hex Cap Screw 5/16"-1-18 x 6"

#### ME3A44SFM Hex Cap Screw 3/8"-16 x 3"

#### ME3A60SFM Hex Cap Screw M10-1-1/2 x 35 mm

#### ME3A6ASFM 3/8"-16 x 2" Bolt

#### ME3A7ASFM 3/8"-16 x 4-1/2" Bolt

#### ME3A8ASFM Hex Cap Screw 1/4"-28 x 2-1/2"

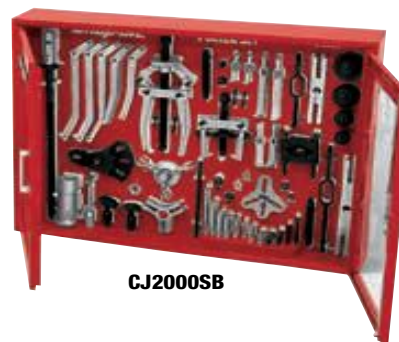
#### ME3A9ASFM Hex Cap Screw 5/16"-18 x 3"

#### ME5A54SFM Washer 5/16"

#### ME5A55SFM Flat Washer .265 x .750 x .093

#### ME5A79SFM Flat Washer 8 mm

#### ME5A85SFM Flat Washer 10 mm



CJ2000SB



CJ2001P

### Gear Puller Set

#### CJ2002 Gear Puller Set

- Use on pitman arms, timing gears, carrier side bearings and more
- Combine to create 10 different pullers
- Capacity from 6-10 ton depending on the yoke and jaws used

#### CJ84-16 Centering Point

#### CJ83-2 Pressure Screw

#### CJ85-1 Yoke

#### CJ86-4A Clamp Bolt

#### CJ85-3A Clamp Bolt

#### CJ86-1 Yoke

#### CJ85-4 Washer

#### CJ105-11 Long Jaw Pin

#### CJ87-1 3" Jaw

#### CJ282-1 6" Jaw

#### CJ66-15-3 Centering Point

#### CJ81-2A Jaw

#### CJ83-3 Pressure Screw



CJ2002

### Rear Axle Puller Set

#### CJ2003A Rear Axle Puller Set

- Slide hammer power pulls many flange-type rear axles, as well as axle bearings
- Set contains CJ123-1 Axle Yoke, ME4A8 Lock Nut (3/4"), CJ127A Bearing Adaptor, CJ66-19 Bearing Hook and CJ128A Bearing Adaptor

#### CJ105-4B Slide Screw

#### CJ137 Bearing Adaptor

#### CJ97-3A 3-3/4 lb

#### Slide Hammer

#### CJ123-1 Axle Yoke

#### ME4A8 Lock Nut (3/4")

#### CJ127A Bearing Adaptor

#### CJ66-19 Bearing Hook

#### CJ128A Bearing Adaptor



CJ2003A

### Interchangeable Puller Set

#### CJ2004 Puller Set, Interchangeable

- Use on bearings, bearing races, gears, bushing retainers, etc.
- Builds any of 12 different pullers
- Two- and three-jaw capability with three sets of jaws
- All jaws reverse for inside and outside pulls
- Pulling capacity: 4-1/2 ton (short jaws), 6-1/2 ton (medium jaws) 8 ton (large jaws)

#### CJ105-10 Short Jaw to Control Pin

#### CJ105-6 Medium Jaw

#### CJ105-11 Long Jaw Pin

#### CJ105-7 Large Jaw

#### CJ105-12 Cross Bar

#### CJ66-15-3 Centering Point

#### CJ86-1 Yoke

#### CJ123-2 Axle Yoke, 4"

#### Base Circle, 3/4"-16 UNF

#### CJ105A8 Three-Way Jaw Control

#### CJ105-3 Pressure Screw

#### CJ105A9 Two-Way Jaw Control

#### CJ105-1 Yoke

#### CJ105-5 Small Jaw



CJ2004



**WARNING**



- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

## PULLERS: BAR-TYPE INTERCHANGEABLE



CJ2005

### Accessory Set

#### CJ2005 Master Interchangeable Puller Set

- Includes all components for the CJ2001, CJ2002, CJ2003A, CJ2004 and CJ2005 puller sets on a VE200A tool control board

- CJ81B1A Adaptor
- CJ85-5 Adaptor
- CJ85-6 Adaptor
- CJ81B2A Adaptor
- CJ85-7 Adaptor
- CJ81D1A Adaptor

- CJ85-8 Adaptor
- CJ81D2A Adaptor
- CJ118-1 Yoke, 6-10-1/2"
- CJ85-2 Jaw
- CJ118-2A Clamp Bolt

### CJ Bearing Adaptors

| Stock No. | Swivel Head Width, inches | Swivel Head Length, inches | Overall Length, inches |
|-----------|---------------------------|----------------------------|------------------------|
| CJ127A    | 1.2                       | 2.03                       | 3.02                   |
| CJ128A    | 1.2                       | 2.31                       | 3.15                   |
| CJ137     | 1.2                       | 2.9                        | 3.24                   |

### Pressure Screws



CJ83-9

#### CJ83-9 Pressure Screw

- Optional pressure screw for bar-style interchangeable pullers
- Applications include heavy-duty truck transmissions like Eaton® transmissions found on Kenworth® heavy-duty trucks
- Can also be used with the CJ2000A, CJ2000S, CJ2000SB, CJ2002 and CJ2004 puller sets
- Thread: 3/4"-16
- Length: 8-3/4"

## PULLERS: SPECIAL PURPOSE

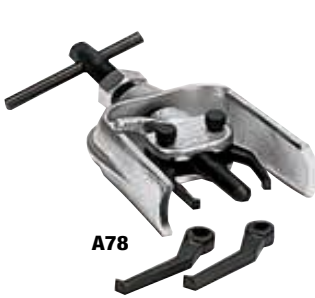


CJ93B

### Small Slide Hammer Puller Set

#### CJ93B Puller Set with Small Slide Hammer

- Removes bushings, seals, sleeves, bearings, bearing races, bronze and oilite bushings and pressed-in studs
- Includes two sets of jaws, grease retainer adaptor, bearing hook, body dent puller, stud-pulling head and 2 lb slide hammer
- Thread size: 3/8-16"



A78



SP2031A

### Small/Pilot/Ball Bearing Pullers

#### A78 Small Bearing Puller

- For bearings and bushings typically found in small electric motors
- Includes a large jaw set for bronze and oilite bushings, small jaw set for smaller bearings and bushings
- Up to 3 tons of pulling power
- Working range is 1/2-2"

#### SP2031A † Pilot Bearing Puller (Blue-Point®)

- Attaches to slide hammer shafts with 3/4"-16 or 5/8"-18 threads
- Pressure screw adaptor is made of stress-resistant steel
- Industrial finish



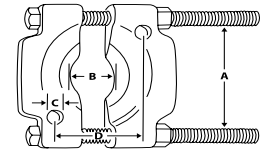
CJ950



CJ952

### Bearing Separators

For separating and pulling double bearings and close-fitting gears. Use with tapped hole, two-jaw pullers or floor presses.



| Stock No. | A       | B Maximum Spread | B Minimum Spread | C        | D       |
|-----------|---------|------------------|------------------|----------|---------|
| CJ949     | 1-11/16 | 1-1/8            | 1/4              | 5/16"-18 | 2-5/8   |
| CJ950     | 2-3/8   | 2-3/8            | 3/8              | 3/8"-16  | 3-3/4   |
| CJ951     | 4-3/8   | 4-1/2            | 5/8              | 5/8"-18  | 7-1/4   |
| CJ952     | 5-7/8   | 6-1/8            | 1-1/2            | 5/8"-18  | 9-5/16  |
| CJ953     | 8-3/8   | 8-3/4            | 1-1/4            | 7/8"-14  | 14-7/16 |

**Steering Wheel Pullers**

**CJ134 Tilt Steering Pivot Pin Puller**

- Allows efficient removal of the two pivot pins on all tilt steering columns used on Chrysler®, Ford® and GM® vehicles

**CJ145 Steering Wheel Puller for GM® Vehicles**

- Use on new GM® steering wheels with air bags, including tilting and telescoping styles
- Handle attachment facilitates puller setup and can be removed when working in confined areas
- Applications: Buick® (1997 and later Park Avenue/Regal®), Cadillac® (1997 and later Catera), Chevrolet®/GMC®(1997 and later Corvette®/Malibu®, 1998 C and K series trucks, 1998 full size vans, 1998 Astro/Safari® vans), Oldsmobile®(1997 and later Cutlass) and Pontiac® (1988 1993 LeMans, 1997 and later Grand Prix®/Trans Sport van)

**CJ131P Steering Wheel Puller and Lock Plate Depressor Set**

- Includes a selection of bolts and a handle in a storage case for servicing GM®, Ford®, Chrysler® and AMC® vehicles
- Adaptors are included for servicing lock plates on all GM® and AMC® vehicles with tilt wheel
- Detachable handle helps hold the puller when turning force is applied to the pressure screw
- Industrial finish



CJ134



CJ145



CJ131P

**Power Steering and Alternator Pullers/Single Pullers**

**CJ3PSA 3 pc Power Steering and Alternator Pulley Removal/Installation Set**

- Includes CJ113B, CJ117C, and CJ124A pullers
- This is a larger version of CJ117C
- Designed for Chrysler®, Ford® and earlier GM® vehicles

**CJ122 2 pc Power Steering Pulley Installer Set**

- Includes installer and pulley installer shaft
- Thread size of 5/8"-18UNF-2A (puller end) and 3/8" 16UNC-2A (shaft end)

**CJ138 Installer, Pulley, M8 x 1.25**

- 8 mm pulley installer features a black industrial finish and a thrust bearing for easier installation
- Applications: power steering pulley on Ford® 4.6 LV8 (1991 and later), Ford® 2.5 LV6 (1995 and later) and the installation of water pump drive pulleys on GM® 4.6 L (1992 and later Oldsmobile® Aurora)

**CJ113B Pulley Installer, Power Steering/Alternator (for domestic vehicles)**

- Designed for US vehicles
- 1" pulley driver hex, 7/16" pressure screw hex, thread size of 5/8"-18UNF-2A (puller end) and 3/8" 16UNC-2A (shaft end)
- 4-5/8" long

**CJ147A Power Steering Gear Lower Pinion Bearing Puller**

- Required tool to comply with GM® recall bulletins #02049 and #03062 regarding power steering gear lower pinion bearing separation
- To correct the problem, inspect the condition of the lower pinion bearing and replace the lower pinion bearing—in a few cases, replacement of the rack and pinion steering gear assembly may be necessary—instructions included with tool
- Applications include Buick®: Regal® 1996–1998; Chevrolet®: Cavalier 1996–1998, Lumina 1997–1998, Lumina APV 1996, Malibu® 1997–1998, Monte Carlo® 1997–1998, Venture 1997–1998; Oldsmobile®: Cutlass 1997–1998, Cutlass Supreme 1996–1998, Silhouette 1996–1998, Intrigue 1998; Pontiac®: Grand Prix® 1996–1998, Sunfire® 1996–1998, Trans Sport 1996–1998



CJ3PSA



CJ124A



CJ122



CJ138



CJ113B



CJ147A



- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**PULLERS: AUTOMOTIVE**

CJ132A

**Power Steering and Alternator Pullers/Master Set****CJ132A ‡ 14 pc Puller and Power Steering Pump/Alternator Pulley Installation/Removal Set (Blue-Point®)**

- GM® Quad 4, 3.1 L GM® and 4.6 L Ford® applications
- Removes/installs press-on, belt-driven accessory pulleys
- Removal housing for grooved hub diameters of 1-1/8, 1-5/16 and 1-3/8"
- Includes components for a 3/8"-16 threaded shaft
- Housing holding bar prevents the main housing from spinning during use with an impact wrench
- Quad 4 installation nut simplifies usage with 4-cylinder GM® vehicles
- Includes instructions and a carrying case

**CJ132-1 Pulley Tool (Blue-Point®)****CJ132-2 ‡ Sleeve (Blue-Point®)****CJ132-3 Installation Nut (Blue-Point®)****CJ132-4 ‡ Quad 4 Removal Pin (Blue-Point®)****CJ132-5 ‡ Quad 4 Installer (Blue-Point®)****CJ132-6 ‡ 3.1L Installer for GM® Vehicles (Blue-Point®)****CJ132-7 ‡ 3/8"-16 Installer (Blue-Point®)****CJ132-8 ‡ 4.6 L Installer for Ford® Vehicles****CJ1329 ‡ Universal Removal Pin (Blue-Point®)****CJ13210 ‡ Housing Holding Bar (Blue-Point®)****CJ13211 Quad 4 Installation Nut (Blue-Point®)****CJ13212 Threaded Shaft (Blue-Point®)****CJ13213 Removal Housing (Blue-Point®)****CJ13214 Bearing (Blue-Point®)****CJ13215 Washer (Blue-Point®)****CJ132AIS Instruction Sheet (Blue-Point®)**

CJ146



YA6490A

**Harmonic Damper Pulley Pullers****CJ146 Crankshaft Harmonic Balancer Kit**

- Remove the crankshaft harmonic balancer on 1990 and later 3.3 L and 3.8 L GM® engines
- Shoulder bolt adaptors provide the correct installation depth, preventing damage to the crank sensor and interrupter rings
- Includes (3) CJ146-1 adaptors, (1) CJ146-2 extension and vinyl storage pouch
- Requires Snap-on® CJ98-1 yoke and CJ83-3 pressure screw for use (not included)

**YA6490A Harmonic Damper Pulley Puller (Blue-Point®)**

- New spring-loaded legs allow for leg position retention
- Provides greater ease and control when installing the puller in confined areas
- Removes harmonic damper pulleys found on many Chrysler® and GM® engines
- Used on autos, pickups, SUVs and vans

**YA13350 Harmonic Dampener Pulley Puller (Blue-Point®)**

- Use on 3.6L Camaro® engines
- Unique design accesses the pulley on internal pulley ledges

**YA13450 Harmonic Dampener Pulley Puller (Blue-Point®)**

- Use on 3.5 L and 5.7 L Dodge® engines
- Unique design accesses pulley on internal pulley ledges



YA6491A

**Harmonic Balancer****YA6491A Harmonic Damper Pulley Puller Update Kit (Blue-Point®)**

- Updates earlier YA9740 pullers to the same applications as the new YA6490A
- Kit updates other pulley pullers that are similar to the YA9740 series of pullers
- Add YA6491 Update Kit to the existing YA9740 series pullers to add these new applications: GM® 4.2 L Straight 6-cylinder; Chevy® Trailblazer®, Colorado®; GMC® Envoy®, Canyon® (2004-later); Oldsmobile® Bravada® (2003-later); Buick® Rainier (2004-later) 3.5 L Straight 5-cylinder; Hummer® H3® (2006-later) 2.8 L Straight 4-cylinder

**YA9740A-6 Short Push Rod (Blue-Point®)**

- Short push rod for older model YA9740 pullers
- Use on crankshafts that are not drilled to full depth



**Pitman Arm Pullers**

**CJ89 Pitman Arm Puller**

**CJ115 Pitman Arm Puller**

- Similar in design to CJ119B except it is designed for compact and intermediate size cars

**CJ119B Pitman Arm Puller (Domestic Cars/Light Trucks)**

- Designed for most US cars and light trucks
- Pressure screw size: 3/4"-16 x 6-7/8"
- Industrial finish

**YA6880 Low-Profile Pitman Arm Puller**

- Fits in the confined space on most GM® (1988–2000 C and K Series chassis) trucks and SUVs; also fits 2001–present trucks and SUVs with steering gear box/pitman arms
- Forged chromoly steel for strength and durability
- Design allows the technician save time removing the arm off of the steering gear box without altering the boxes position

**PAR1188 Heavy-Duty Pitman Arm Puller**

- Removal of large pitman arms onto 1 ton pickup trucks
- Applications include Ford® F-250/350 (2000–later), Dodge® 2500/3500 (2011–later), Chevrolet®/GMC® 2500/3500 (2011–later)

**PAR1490 Super Duty Pitman Arm Popper**

- Fits short sector shaft and long sector shafts with a bolt or nut attachment
- Forged from alloy steel
- Heat treated for rigidity and durability
- Fine pitch thread for reduced effort
- Ball bearing tip to protect the sector shaft



**GENERAL PURPOSE INTERCHANGEABLE**

**Light-Duty Pullers**

Builds pullers.

| Stock No. | Puller Type | Maximum Reach, inches (mm) | Outside Spread, inches | Inside Spread, inches |
|-----------|-------------|----------------------------|------------------------|-----------------------|
| CG240     | 2-Jaw       | 2-1/2 (64)                 | 0-3                    | 7/8-3-1/4             |
| CG240H    | 2-Jaw       | 2-1/2 (63)                 | 0-3                    | 7/8-3-1/4             |
| CG240HL   | 2-Jaw       | 3-1/2 (88)                 | 0-4                    | 1-3-3/4               |
| CG240L    | 2-Jaw       | 3-1/2 (89)                 | 0-4                    | 1-3-3/4               |
| CG243     | 3-Jaw       | 2-1/2 (64)                 | 0-3                    | 7/8-3-1/4             |
| CG243H    | 3-Jaw       | 2-1/2 (64)                 | 0-3                    | 7/8-3-1/4             |
| CG243HL   | 3-Jaw       | 3-1/2 (89)                 | 0-4                    | 1-3-3/4               |
| CG243L    | 3-Jaw       | 3-1/2 (89)                 | 0-4                    | 1-3-3/4               |

**CG2400B Manual Light-Duty Interchangeable General Purpose Puller Set**

- This versatile set provides two- or three-jaw pulling with pressure screw or slide hammer options
- Interchange parts to build any of the four puller combinations
- Up to 2-1/2 ton of pulling power
- 3" dia. capacity for outside pulls



**Medium-Duty**

Builds pullers. Medium-duty pullers deliver up to 7-1/2 ton of pulling power, 4-1/2" dia. capacity for outside pulls and from 3/4-8" dia. capacity for inside pulls. CG6223 Hydraulic Conversion

Set converts CG250 and CG253 manual pullers to hydraulic power. The manual components of the indicated medium duty pullers are included in the heavy-duty (CG2500/CG2510 Series) sets.

| Stock No. | Puller Type            | Maximum Reach, inches | Outside Spread, inches | Inside Spread, inches |
|-----------|------------------------|-----------------------|------------------------|-----------------------|
| CG250     | Two-Jaw                | 3                     | 0-4-1/2                | 1-1/2-3-1/2           |
| CG250A    | Two-Jaw, Pulling Plate | 3                     | 0-4-1/2                | 1-1/2-3-1/2           |
| CG250H    | Two-Jaw                | 3                     | 0-4-1/2                | 1-1/2-3-1/2           |
| CG250HL   | Long Jaw, Two-Jaw      | 6                     | 0-8-1/2                | 3/4-8                 |
| CG253     | Three-Jaw              | 3                     | 0-4-1/2                | 1-1/2-3-1/2           |
| CG253H    | Three-Jaw              | 3                     | 0-4-1/2                | 1-1/2-3-1/2           |
| CG253L    | Three-Jaw              | 6                     | 0-8-1/2                | 3/4-8                 |



- Screen puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- † These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**PULLERS: GENERAL PURPOSE INTERCHANGEABLE**



**CG2510BSHY**



**CG2500BSB**

**Heavy-Duty**

Builds Pullers:

| Stock No. | Puller Type         | Maximum Reach, inches | Outside Spread, inches | Inside Spread, inches |
|-----------|---------------------|-----------------------|------------------------|-----------------------|
| CG654HY   | Hydraulic, 2-Jaw    | 3                     | 0-4-1/2                | 1-1/2-3-1/2           |
| CG655HY   | Hydraulic, 3-Jaw    | 3                     | 0-4-1/2                | 1-1/2-3-1/2           |
| CGJ270    | 2-Jaw               | 5-1/2                 | 0-8-1/2                | 2-1/2-7               |
| CG270HA   | 2-Jaw               | 5-1/2                 | 0-8-1/2                | 2-1/2-7               |
| CG270SA   | Special Grip, 2-Jaw | 5-1/2                 | 0-8-1/2                | 2-1/2-7               |
| CG273     | 3-Jaw               | 5-1/2                 | 0-8-1/2                | 2-1/2-7               |
| CG273HA   | 3-Jaw               | 5-1/2                 | 0-8-1/2                | 2-1/2-7               |
| CG280A    | Long Jaw, 2-Jaw     | 8                     | 0-10                   | 3-8                   |
| CG283A    | Long Jaw, 3-Jaw     | 8                     | 0-10                   | 3-8                   |
| CG274HY   | Hydraulic, 2-Jaw    | 8-3/4                 | 10                     | 3-8                   |
| CG275HY   | Hydraulic, 3-Jaw    | 8-3/4                 | 0-10                   | 3-8                   |

**The CG2510 and CG2500 Series delivers:**

- Up to 12-1/2 tons of pulling power
- 10" diameter capacity for outside pulls
- From 3/4-8" diameter capacity for inside pulls

**CG2510BSBHY Heavy-Duty Manual/Hydraulic Interchangeable Puller Set**

- Features 40 interchangeable components, including the CG1224 10-ton hydraulic power kit
- All components are displayed on a VE213 tool control board, which is mounted inside a KRA276D wall cabinet

**VE213 Tool Control Board**

- Panel for the CG2500BSBHY Manual/Hydraulic Puller Set

**CG2510BSHY Heavy-Duty Interchangeable Manual/Hydraulic Puller Set**

- Same as the CG2510BSBHY set mounted on a VE213 tool control board
- Does not include the wall cabinet

**CG2510BHY Heavy-Duty Interchangeable Manual/Hydraulic Puller Set**

- Same as CG2510BSBHY set, without the tool control board or the wall cabinet

**CG2500BSB Heavy-Duty Interchangeable Manual Puller Set**

- Same as the CG2510BSBHY set less the 10 ton hydraulic power kit components
- Tool control board for this set is VE113B
- Wall cabinet is KRA276D

**VE113B Tool Control Board**

- Panel A is designed to hold the components for the CG2500BS interchangeable puller set (6, 7-1/2, 10 and 12-1/2 ton capacity)
- Also used as the tool control board for the CG2500BSB manual puller set

**CG2500B Heavy-Duty Manual Interchangeable Puller Set**

- Same as the CG2500BSB set, without the tool control board or the wall cabinet

**CG2500BS Heavy-Duty Manual Interchangeable Puller Set**

- Same as the CG2500BSB set mounted on a VE113B tool control board, without the wall cabinet

# PULLERS: 2-JAW PRESSURE SCREW

## 2-Ton Capacity (1.8 t), 2-Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG240A    | 2-1/2 (64)                 | 7/8-3-1/4 (22-83)                  | 3 (76)                              | 3/8-16 x 5-1/16             | 3/16 (5)                   | 3/8 (10)               |
| CG240LA   | 3-1/2 (89)                 | 7/8-3-3/4 (25-95)                  | 4 (102)                             | 3/8-16 x 6-1/16             | 3/16 (5)                   | 3/8 (10)               |



CG240A

## 6-Ton Capacity (5.4 t), 2-Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CGJ250    | 3 (76)                     | 1-1/2-3-1/2 (38-89)                | 4-1/2 (114)                         | 5/8-18 x 6-7/8              | 1/4 (6)                    | 3/4 (19)               |
| CG250AA*  | 3 (76)                     | 1-1/2-3-1/2 (38-89)                | 4-1/2 (114)                         | 5/8-18 x 6-7/8              | 1/4 (6)                    | 3/4 (19)               |



CGJ250



CG270AA

## 10-Ton Capacity (9.1 t), 2-Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches       | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|-----------------------------------|----------------------------|------------------------|
| CGJ270    | 5-1/2 (140)                | 2-1/2-7-1/2 (64-178)               | 8-1/2 (216)                         | 3/4-16 x 9-13/16                  | 1/4 (6)                    | 15/16 (24)             |
| CG270AA*  | 5-1/2 (140)                | 2-1/2-7-1/2 (64-178)               | 8-1/2 (216)                         | 3/4-16 x 9-13/16                  | 1/4 (6)                    | 15/16 (24)             |
| CG272A**  | 5-1/2 (140), 8-3/4 (222)   | 2-1/2-7-1/2 (64-178), 3-8 (76-203) | 8-1/2 (216), 10 (254)               | 3/4-16 x 9-13/16, 3/4-16 x 12-1/8 | 1/4 (6)                    | 15/16 (24)             |
| CG270SA   | 5-1/2 (140)                | 2-1/2-7-1/2 (64-178)               | 8-1/2 (216)                         | 3/4-16 x 9-13/16                  | 1/4 (6)                    | 15/16 (24)             |
| CG280A    | 8-3/4 (222)                | 3-8 (76-203)                       | 10 (254)                            | 3/4-16 x 12-1/8                   | 1/4 (6)                    | 15/16 (24)             |
| CG284A*** | 15 (381)                   | 4-3/4-11-1/2 (121-292)             | 13-3/4 (349)                        | 3/4-16 x 18-15/16                 | 3/8 (10)                   | 1 (25)                 |



CG280A

\*Includes CG1 pulling plate. \*\*Two jaw lengths. \*\*\*Includes pressure screw extension.

# 3-JAW PRESSURE SCREW

## 2-1/2-Ton Capacity (2.3 t), 3-Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG243A    | 2-1/2 (64)                 | 7/8-3-1/4 (22-83)                  | 3 (76)                              | 3/8-16 x 5-1/16             | 3/16 (5)                   | 3/8 (10)               |
| CG243LA   | 3-1/2 (89)                 | 7/8-3-3/4 (22-95)                  | 4 (102)                             | 3/8-16 x 6-1/16             | 3/16 (5)                   | 3/8 (10)               |



CG243A

## 6-Ton Capacity (5.4 t), 3-Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG253LA   | 6 (152)                    | 3/4-8 (19-203)                     | 5/8-18 x 6-7/8                      | 5/8-18 x 6-7/8              | 5/16 (8)                   | 3/8 (10)               |



CG253LA

## 7-1/2-Ton Capacity (6.8 t), 3-Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG253A    | 3 (76)                     | 1-1/2-3-1/2 (38-89)                | 4-1/2 (114)                         | 5/8-18 x 6-7/8              | 1/4 (6)                    | 3/4 (19)               |



CG285A

## 12-1/2-Ton Capacity (11.3 t), 3-Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CGJ273    | 5-1/2 (140)                | 2-1/2-7-1/2 (64-178)               | 8-1/2 (216)                         | 3/4-16 x 9-13/16            | 1/4 (6)                    | 15/16 (24)             |
| CG273AA   | 5-1/2 (140)                | 2-1/2-7-1/2 (64-178)               | 8-1/2 (216)                         | 3/4-16 x 9-13/16            | 1/4 (6)                    | 15/16 (24)             |
| CG283A    | 8 (203)                    | 3-8 (76-203)                       | 10 (254)                            | 3/4-16 x 12-1/8             | 1/4 (6)                    | 15/16 (24)             |
| CG285A    | 15 (381)                   | 4-3/4-11-1/2 (121-292)             | 13-3/4 (349)                        | 3/4-16 x 18-15/16           | 3/8 (10)                   | 1 (25)                 |



- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

## PULLERS: 2-JAW SLIDE HAMMER



CG240H

### 2-Ton Capacity (1.8 t) – 1-1/16 lb Hammer

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Slide Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|--------------------------|----------------------------|------------------------|
| CG240HA   | 2-1/2 (63)                 | 7/8–3-1/4 (22–82)                  | 3 (76)                              | 3/8–16 x 12-5/8          | 3/16 (5)                   | 3/8 (10)               |
| CG240HLA  | 3-1/2 (88)                 | 7/8–3-3/4 (25–95)                  | 4 (102)                             | 3/8–16 x 12-5/8          | 3/16 (5)                   | 3/8 (10)               |



CG250HL

### 6-Ton Capacity (5.4 t) – 2-1/8 lb Hammer

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Slide Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|--------------------------|----------------------------|------------------------|
| CG250CA*  | 3 (76)                     | 1-1/2–3-1/2 (38–89)                | 4-1/2 (114)                         | 5/8–18 x 18-1/16         | 1/4 (6)                    | 3/4 (19)               |
| CG250HA   | 3 (76)                     | 1-1/2–3-1/2 (38–89)                | 4-1/2 (114)                         | 5/8–18 x 18-1/16         | 1/4 (6)                    | 3/4 (19)               |
| CG250HLA  | 6 (152)                    | 3/4–8 (19–203)                     | —                                   | 5/8–18 x 18-9/16         | 7/32 (5)                   | 5/16 (8)               |

\*Includes CG250H puller, CG1 pulling plate and pressure screw



CG270C

### 10-Ton Capacity (9.1 t) – 3-1/2 lb Hammer

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Slide Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|--------------------------|----------------------------|------------------------|
| CG270CA** | 5-1/2 (140)                | 2-1/2–7-1/2 (64–178)               | 8-1/2 (216)                         | 3/4–16 x 23-3/8          | 1/4 (6)                    | 15/16 (24)             |
| CG270HA   | 5-1/2 (140)                | 2-1/2–7-1/2 (64–178)               | 8-1/2 (216)                         | 3/4–16 x 23-3/8          | 1/4 (6)                    | 15/16 (24)             |

\*\*Includes CG1 pulling plate and pressure screw

## PULLERS: 3-JAW SLIDE HAMMER



CG243H

### 2-1/2-Ton Capacity (2.3 t) – 1-1/16 lb Hammer

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Slide Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|--------------------------|----------------------------|------------------------|
| CG243HA   | 2-1/2 (64)                 | 7/8–3-1/4 (22–83)                  | 3 (76)                              | 3/8–16 x 12-5/8          | 3/16 (5)                   | 3/8 (10)               |
| CG243HLA  | 3-1/2 (89)                 | 7/8–3-3/4 (25–95)                  | 4 (102)                             | 3/8–16 x 12-5/8          | 3/16 (5)                   | 3/16 (5)               |



CG253H

### 7-1/2-Ton Capacity (6.8 t) – 2-1/8 lb Hammer

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Slide Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|--------------------------|----------------------------|------------------------|
| CG253HA   | 3 (76)                     | 1-1/2–3-1/2 (38–89)                | 4-1/2 (114)                         | 5/8–18 x 18-1/16         | 1/4 (6)                    | 3/4 (19)               |



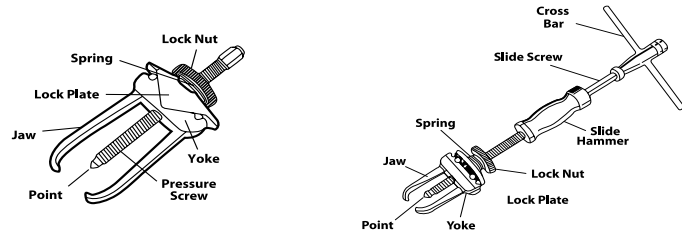
CG273C

### 12-1/2-Ton Capacity (11.3 t) – 3-1/2 lb Hammer

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Slide Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|------------------------------------|-------------------------------------|--------------------------|----------------------------|------------------------|
| CG273CA*  | 5-1/2 (140)                | 2-1/2–7-1/2 (64–178)               | 8-1/2 (216)                         | 3/4–16 x 23-3/8          | 1/4 (6)                    | 15/16 (24)             |
| CG273HA   | 5-1/2 (140)                | 2-1/2–7-1/2 (64–178)               | 8-1/2 (216)                         | 3/4–16 x 23-3/8          | 1/4 (6)                    | 15/16 (24)             |

\*Includes CG273H puller, CG1 pulling plate and pressure screw

# PULLERS: REFERENCE CHARTS



## 2-1/2-ton Capacity (2.3 t) – 1-1/16 lb Hammer

| Stock No. | 2-Jaw Yoke CG240-2 | 3-Jaw Yoke CG243-2 | Std. Pres. Screw CG240-1 | Long Pres. Screw CG240-11 | Slide Screw CG240-8 | Slide Hammer CG240-9 | 2-Jaw Lock Plate CG240-5 | 3-Jaw Lock Plate CG243-5 | Spring CG240-6 | Adjusting Nut CG240-7 | Standard Jaw CG240-3 | Long Jaw CG240-10 |
|-----------|--------------------|--------------------|--------------------------|---------------------------|---------------------|----------------------|--------------------------|--------------------------|----------------|-----------------------|----------------------|-------------------|
| CG240A    | 1                  | —                  | 1                        | —                         | —                   | —                    | 1                        | —                        | 1              | 1                     | 2                    | —                 |
| CG240LA   | 1                  | —                  | —                        | 1                         | —                   | —                    | 1                        | —                        | 1              | 1                     | —                    | 2                 |
| CG240HA   | 1                  | —                  | —                        | —                         | 1                   | 1                    | 1                        | —                        | 1              | 1                     | 2                    | —                 |
| CG240HLA  | 1                  | —                  | —                        | —                         | 1                   | 1                    | —                        | —                        | 1              | 1                     | —                    | 2                 |
| CG243A    | —                  | 1                  | 1                        | —                         | —                   | —                    | 1                        | 1                        | 1              | 1                     | 3                    | —                 |
| CG243LA   | —                  | 1                  | —                        | 1                         | —                   | —                    | —                        | 1                        | 1              | 1                     | —                    | 3                 |
| CG243HA   | —                  | 1                  | —                        | —                         | 1                   | 1                    | —                        | 1                        | 1              | 1                     | 3                    | —                 |
| CG243HLA  | —                  | 1                  | —                        | —                         | 1                   | 1                    | —                        | 1                        | 1              | 1                     | —                    | 3                 |

## 6-ton Capacity (5.4 t) – 2-1/8 lb Hammer

| Stock No. | 2-Jaw Yoke CG250-2 | 3-Jaw Yoke CG253-2 | Pressure* Screw CG250-1A | Slide* Screw CG250-8A | Slide Hammer CG250-9 | Cross Bar CG10F | Lock Plate CG250-5 | Spring CG250-6 | Adjusting Nut CG250-7 | Standard Jaw CG250-3 | Long Jaw CG250-10 | Pulling Plate CG1 |
|-----------|--------------------|--------------------|--------------------------|-----------------------|----------------------|-----------------|--------------------|----------------|-----------------------|----------------------|-------------------|-------------------|
| CGJ250    | 1                  | —                  | 1                        | —                     | —                    | —               | 1                  | 1              | 1                     | 2                    | —                 | —                 |
| CG250AA   | 1                  | —                  | 1                        | —                     | —                    | —               | 1                  | 1              | 1                     | 2                    | —                 | 1                 |
| CG250CA   | 1                  | —                  | 1                        | 1                     | 1                    | 1               | 1                  | 1              | 1                     | 2                    | —                 | 1                 |
| CG250HA   | 1                  | —                  | —                        | 1                     | 1                    | 1               | 1                  | 1              | 1                     | 2                    | —                 | —                 |
| CG250HLA  | 1                  | —                  | —                        | 1                     | 1                    | 1               | 1                  | 1              | 1                     | —                    | 2                 | —                 |
| CG253A    | —                  | 1                  | 1                        | —                     | —                    | —               | 1                  | 1              | 1                     | 3                    | —                 | —                 |
| CG253HA   | —                  | 1                  | —                        | 1                     | 1                    | 1               | 1                  | 1              | 1                     | 3                    | —                 | —                 |
| CG253LA   | —                  | 1                  | 1                        | —                     | —                    | —               | 1                  | 1              | 1                     | —                    | 3                 | —                 |
| CG2500C** | 1                  | 1                  | 1                        | 1                     | 1                    | 1               | 2                  | 2              | 2                     | 3                    | 3                 | —                 |

\*\*CG2500C continued in next chart

### CG2500C Heavy-Duty Manual Interchangeable Puller Set

- Same as the CG2500CSB set, without the tool control board or the wall cabinet

### Heavy-Duty

| Stock No. | 2-Jaw Yoke CG270-2 | 3-Jaw Yoke CG273-2 | Std. Pres.* Screw CG270-1A | Long Pres.* Screw CG270-11A | Manual Adaptor CG270-13 | Slide* Screw CG270-8A | Slide Hammer CG66-2 | 2-Jaw Lock Plate CG270-5 | 3-Jaw Lock Plate CG273-5 | Spring CG270-6 | Lock Nut CG270-7 | Standard Jaw CG270-3 | Long Jaw CG270-10 | Special Jaw CG270-3S | Extra Long Jaw CG270-12 |
|-----------|--------------------|--------------------|----------------------------|-----------------------------|-------------------------|-----------------------|---------------------|--------------------------|--------------------------|----------------|------------------|----------------------|-------------------|----------------------|-------------------------|
| CGJ270    | 1                  | —                  | 1                          | —                           | —                       | —                     | —                   | —                        | —                        | 1              | 1                | 2                    | —                 | —                    | —                       |
| CG270AA   | 1                  | —                  | 1                          | —                           | —                       | —                     | —                   | —                        | —                        | 1              | 1                | 2                    | —                 | —                    | —                       |
| CG270CA   | 1                  | —                  | 1                          | —                           | —                       | 1                     | 1                   | —                        | —                        | 1              | 1                | 2                    | —                 | —                    | —                       |
| CG270HA   | 1                  | —                  | —                          | —                           | —                       | 1                     | 1                   | —                        | —                        | 1              | 1                | 2                    | —                 | —                    | —                       |
| CG270SA   | 1                  | —                  | 1                          | —                           | —                       | —                     | —                   | 1                        | —                        | 1              | 1                | —                    | —                 | 2                    | —                       |
| CG272A    | 1                  | —                  | —                          | 1                           | —                       | —                     | —                   | 1                        | —                        | 1              | 1                | —                    | 2                 | —                    | —                       |
| CG273AA   | —                  | 1                  | 1                          | —                           | —                       | —                     | —                   | —                        | 1                        | 1              | 1                | 3                    | —                 | —                    | —                       |
| CG273CA   | —                  | 1                  | 1                          | —                           | —                       | 1                     | 1                   | —                        | —                        | 1              | 1                | 3                    | —                 | —                    | —                       |
| CG273HA   | —                  | 1                  | —                          | —                           | —                       | 1                     | 1                   | —                        | 1                        | 1              | 1                | 3                    | —                 | —                    | —                       |
| CG280A    | 1                  | —                  | —                          | 1                           | —                       | —                     | —                   | —                        | —                        | 1              | 1                | —                    | 2                 | —                    | —                       |
| CG283A    | —                  | 1                  | —                          | 1                           | —                       | —                     | —                   | —                        | 1                        | 1              | 1                | —                    | 3                 | —                    | —                       |
| CG284A    | 1                  | —                  | —                          | 1                           | 1                       | —                     | —                   | —                        | —                        | 1              | 1                | —                    | —                 | —                    | 2                       |
| CG285A    | —                  | —                  | —                          | 1                           | 1                       | —                     | —                   | —                        | 1                        | 1              | 1                | —                    | —                 | —                    | 3                       |
| CG2500C   | —                  | —                  | —                          | —                           | —                       | —                     | —                   | —                        | —                        | —              | —                | —                    | —                 | —                    | —                       |

## 20-ton Capacity (18.1 t), 2-Jaw

| Stock No. | Description                          | 2-Jaw Yoke CG300-2 | Lock Nut CG300-7 | Lock Plate CG300-5 | Long Jaw CG305-9 | Pressure Screw CG300-1 | Pressure Screw CG305-8 | Spring CG300-6 | Standard Jaw CG300-3 |
|-----------|--------------------------------------|--------------------|------------------|--------------------|------------------|------------------------|------------------------|----------------|----------------------|
| CG300     | 20-Ton Two Jaw Pressure Screw Puller | 1                  | 1                | 1                  | —                | 1                      | —                      | 1              | 2                    |
| CG305     | 20-Ton Two Jaw Pressure Screw Puller | 1                  | 1                | 1                  | 2                | —                      | 1                      | 1              | —                    |



- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

**PULLERS: INDUSTRIAL****CG1038KA****Industrial Puller Sets****CG1038KA Industrial Puller Set**

- Includes more than 35 basic pullers that will assemble into more than 165 puller combinations
- Standard pullers in this set have a range from 2–20-ton
- The hydraulic power components provide up to 20-tons of easy pulling power
- Optional 10 and 50-ton hydraulic accessories are available
- Components are mounted on (4) 24 x 32 x 3/4" tool control panels (labeled A, B, C and D) with white silhouettes
- The panels are mounted on KRA213E A-frame

**CG1050KA Expanded Industrial Puller Set**

- Includes the CG1038KA industrial puller set and the CG1224 power kit for converting 10-ton manual pullers to hydraulic power; CG300-1, CG305-8 and CG350-1 pressure screws; CG343-1 4" plug; CG350-2 manual yoke for converting the 20-ton hydraulic pullers to manual power and CG555 basic hydraulic set for building a 50-ton hydraulic bar type puller
- Includes CG420-5C pressure gauge, CG420-6 gauge mounting adaptor, ten CG250-20 small centering adaptors and ten CG270-20 large centering adaptors

**KRA213E A-Frame**

- Mobile unit features 23,220 in<sup>3</sup>, 1,260 in<sup>2</sup> of storage for convenient access and orderly storage
- Measures 26-1/2 x 52-3/8 x 32-3/8"

**Tool Control Boards****VE113B Tool Control Board**

- Panel A is designed to hold the components for the CG2500CS interchangeable puller set (6, 7-1/2, 10 and 12-1/2 ton capacity)
- Also used as the tool control board for the CG2500CSB manual puller set

**CGJ250 6-Ton Two Jaw Pressure Screw Puller****CG250HA 6-Ton Two Jaw Slide Hammer Puller****CG250HLA 6-Ton Two Jaw Slide Hammer Puller****CG253A 7-1/2-Ton Three Jaw Pressure Screw Puller****CG253HA Three Jaw Medium Duty Puller****CGJ270 10-Ton Two Jaw Pressure Screw Puller****CG270HA 10-Ton Two Jaw Slide Hammer Puller****CG270SA 10-Ton Two Jaw Pressure Screw Puller****CGJ273 12-1/2-Ton Three Jaw Pressure Screw Puller****CG273HA 12-1/2-Ton Three Jaw Slide Hammer Puller****CG280A 10-Ton Two Jaw Pressure Screw Puller****CG283A 12-1/2-Ton Three Jaw Pressure Screw Puller****VE138-3B Tool Control Board**

- Panel B is designed to hold the CG2400B light duty puller set, CJ840C tapped hole puller set, CJ949 bearing separator and CJ9500 bearing separator set components

**CG240A 2-Ton Two Jaw Pressure Screw Puller****CG240HA 2-Ton Two Jaw Slide Hammer Puller****CG243A 2-1/2-Ton Three Jaw Pressure Screw Puller****CG243HA 2-1/2-Ton Three Jaw Slide Hammer Puller****CJ93B Puller Set with Small Slide Hammer****CJ840C Complete Bar-Type Manual Tapped Hole Puller Set****CJ949 1-1/8" Bearing Separator****CJ950 2-3/8" Bearing Separator****CJ951 4-1/2" Bearing Separator****CJ952 6-1/8" Bearing Separator****VE138-2B Tool Control Board**

- Panel C is designed to hold the CG450HYA 20 ton hydraulic bar type puller components and the components of CG2545AB blind hole bearing puller set

**CG45 7 pc Blind Hole Bearing Puller Set****CG450 Bar-Type Manual Puller Set****CG450HYA Bar-Type Hydraulic/Manual Puller Set****VE138-1B Tool Control Board**

- Panel D is designed to hold components of the CG400 20 ton jaw type puller, three CG305-9 long jaws, CG455 and CG455A threaded adaptor sets, plus CG455-18 and CG455-19 pressure screw adaptors
- The adaptors are for use with the bar-type pullers on tool control panel C

**CG400 Manual Combination Two and Three Jaw Puller****CG400HYA 20-Ton Hydraulic Puller****CG405 Manual Combination Two and Three Jaw Puller****CG405HYA 20-Ton Hydraulic Puller**

## PULLERS: HYDRAULIC POWER UNITS

### Pump and Ram Set Components

Features of two-stage hydraulic pumps:

- Two stage design will advance 20–50 ton rams in the low pressure stage in less than 1/3 the strokes required on other models
- CG520 Ram extends in 60–70 strokes
- CG420 Ram extends in 17–19 strokes
- When high pressure is required, the low-pressure stage automatically kicks out to leave the high-pressure stage to do the work



| Capacity, tons | Stock No. | Stroke, inches | Collapsed Height, inches | Extended Height, inches | Effective Area (piston) | Oil Capacity (in <sup>3</sup> ) | Pressure Screw Size, inches |
|----------------|-----------|----------------|--------------------------|-------------------------|-------------------------|---------------------------------|-----------------------------|
| 6              | CG650     | 1-1/2          | 4-11/16                  | 6-3/16                  | 1.473                   | 2.210                           | 5/8–11 x 13-1/4             |
| 10             | CG120     | 1              | 4-3/4                    | 5-3/4                   | 2.440                   | 2.440                           | 3/4–10 x 16-1/4             |
| 20             | CG420-1A  | 2              | 6                        | 8                       | 4.418                   | 8.836                           | 1-1/8–8 x 20-1/2            |
| 35             | CG720     | 2-1/2          | 7                        | 9-1/2                   | 7.903                   | 19.758                          | 1-3/8–8 x 25                |
| 50             | CG520     | 3              | 8-1/8                    | 11-1/8                  | 11.066                  | 33.198                          | 1-5/8–5-1/2 x 30            |

#### CG222 4-Ton Hydraulic Pump and Ram Set Includes:

- CG4-2A Single Stage Pump
- CG120-3-1 Hydraulic Hose
- CG120-4 Coupler Set
- CG220 4 Ton Hydraulic Ram
- CG220-13 Pressure Screw
- CG4-2A Single Stage Pump

#### CG122 10-Ton Hydraulic Pump and Ram Set Includes:

- CG120 Ram, Hydraulic, 10-Ton
- CG4-2A Single Stage Pump
- CG120-13 Pressure Screw
- CG120-3-1 Hydraulic Hose
- CG120-4 Coupler Set



#### CG652 6-Ton Hydraulic Pump and Ram Set Includes:

- CG120-3-1 Hydraulic Hose
- CG120-4 Coupler Set
- CG250-20 Replacement for CG250 Series Point
- CG4-2A Single Stage Pump
- CG650 6-Ton Ram

#### CG420A 20-Ton Hydraulic Pump and Ram Set Includes:

- CG420-1A 20-Ton Ram
- CG420-2A Single Stage Hydraulic Pump
- CG420-1-14 Centering Adaptor
- CG420-3-1 Hose
- CG420-4 Coupler Set
- CG420A2S Hydraulic Pump and Ram Set



## HYDRAULIC ACCESSORIES

#### CG6223 Hydraulic Conversion Power Kit

- 6 ton
- Converts the CG250, CG253 manual pullers and CG1500 puller set to hydraulic power
- Includes 6 ton pump and ram set, two jaw yoke, hand wheel adaptor and three jaw yoke

#### CG652 6-Ton Hydraulic Pump and Ram Set

- CG250-15 6-Ton Yoke
- CG250-16 Hand Wheel Adaptor
- CG253-15 6-Ton Yoke

#### CG1224 10-Ton Hydraulic Conversion Kit

- Converts the CG270, CG273, CG280, and CG283 manual pullers (on tool control panel A) and CG1700/CG2500B puller sets to hydraulic power

#### CG122 10-Ton Hydraulic Pump and Ram Set

- CG270-15 10-Ton Yoke
- CG270-16 Hand Wheel Adaptor
- CG273-15 10-Ton Yoke

#### CG558 50 Ton Hydraulic Push-Pull Puller Accessory Set

- Includes additional side rods and end blocks, plus work screw, side rod, and bull nose adaptors to increase the versatility of the CG555 basic hydraulic set



#### CG420-5C Pressure Gauge

- Can be used with 6-, 10-, 20-, 35- and 50-ton hydraulic equipment
- Use for CG4-2A, CG420-2A and CG420A-2S hydraulic pumps
- Indicates hydraulic pressure in ton of pressure as well as PSI
- Adaptor CG420-6 is required to attach gauge to pumps

#### CG420-6 Gauge Mounting Adaptor

- Mounts CG420-5C Pressure Gauge to 6, 10, 20, 35 and 50 ton hydraulic systems



- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

## PULLERS: 2- AND 3-JAW HYDRAULIC



CG654HY



CG655HY



CG274HY



CG275HY



CG400HY



CG343



CG405HY



CG425HY

CG560HY

### Heavy-Duty

| Stock No.                    | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|------------------------------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG654HY†<br>Hydraulic, 2-Jaw | 3 (76)                     | 1-1/2-3-1/2 (38-89)                | 4-1/2 (114)                         | 5/8-11 x 13-3/4             | 1/4 (6)                    | 3/4 (19)               |
| CG655HY*<br>Hydraulic, 3-Jaw | 3 (76)                     | 1-1/2-3-1/2 (38-89)                | 4-1/2 (114)                         | 5/8-11 x 13-3/4             | 1/4 (6)                    | 3/4 (19)               |

†Includes hydraulic ram and pump set.

\*To convert to manual power, use pressure screw, adjusting nut and yoke from either CG250 or CG253 Pullers.

### 10-Ton Capacity (9.1 t)

| Stock No.         | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) inside | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-------------------|----------------------------|------------------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG274HY†<br>2 Jaw | 8-3/4 (222)                | 3-8 (76-203)                       | 3-8 (76-203),<br>10-1/2 (266)       | 3/4-10 x 16-1/4             | 1/4 (6)                    | 15/16 (24)             |
| CG275HY†<br>3 Jaw | 8-3/4 (222)                | 3-8 (76-203)                       | 10 (254)                            | 3/4-10 x 16-1/4             | 1/4 (6)                    | 15/16 (24)             |
| CG276HY†<br>2 Jaw | 15 (381)                   | 4-3/4-11-1/2 (121-292)             | 13-3/4 (349)                        | 3/4-10 x 23-3/8             | 3/8 (9)                    | 1 (25)                 |
| CG277HY*<br>3 Jaw | 15 (381)                   | 4-3/4-11-1/2 (121-292)             | 13-3/4 (349)                        | 3/4-10 x 23-3/8             | 3/8 (9)                    | 1 (25)                 |

†Includes hydraulic ram and pump set.

\*To convert to manual power, use pressure screw, adjusting nut and yoke from either CG270 or CG273 Pullers.

### 20-Ton Capacity (18.1 t) Combination 2 and 3 Jaw

| Stock No. | Maximum Reach, inches (mm)   | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|--|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG400HYA* | 9-1/2 (241)  | 13 (330)                            | 1-1/8-8 x 20-1/2            | 7/16 (11)                  | 1-1/4 (32)             |
| CG400     | CG400HYA less hydraulic ram and pump   |                                     |                             |                            |                        |
| CG343     | Manual version of CG400HYA. Includes CG343-1 4" Plug and CG300-1 1-14 Pressure Screw in place of ram and pump                              |                                     |                             |                            |                        |
| CG405HYA* | 14 (355)   | 15 (381)                            | 1-1/8-8 x 20-1/2            | 9/16 (14)                  | 1-1/4 (32)             |
| CG405     | CG405HYA less hydraulic ram and pump   |                                     |                             |                            |                        |
| CG348     | Manual version of CG405HYA. Includes CG343-1 4" Plug and CG305-8 1-14 Pressure Screw in place of ram and pump                              |                                     |                             |                            |                        |
| CG425HYA* | 19 (482)   | 20 (508)                            | 1-1/8-8 x 20-1/2            | 1-1/8 (29)                 | 1-1/2 (38)             |
| CG425     | CG425HYA less hydraulic ram and pump   |                                     |                             |                            |                        |
| CG325     | Manual version of CG425HYA. Includes 1-3/8"-8 x 20-11/16" pressure screw in place of pump, ram, washer adaptor, ram adaptor and cap screws |                                     |                             |                            |                        |

\*Included with hydraulic ram.

### 50-Ton Capacity (45.36 t) Combination 2 and 3 Jaw

| Stock No. | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) outside | Pressure Screw Size, inches | Jaw Thickness, inches (mm) | Jaw Width, inches (mm) |
|-----------|----------------------------|-------------------------------------|-----------------------------|----------------------------|------------------------|
| CG560HY*  | 28 (711)                   | 44 (1,118)                          | 1-5/8-5-1/2 x 30            | 1-7/16 (36)                | 2 (51)                 |

\*Included with hydraulic ram

## PULLERS: BAR-TYPE MANUAL TAPPED HOLE SETS



CJ840C

### 6-Ton Capacity (5.41 t), Tapped Hole

| Stock No.           | Maximum Reach, inches (mm)   | Maximum Spread, inches (mm) | Pressure Screw | Side Rods (2) | Side Rod Adaptors (2)  |
|---------------------|--|-----------------------------|----------------|---------------|--|
| CJ840C              | 33 (838)   | 2-5/8-11-5/8 (67-295)       | 1-14 x 30      | 5/8-18        | 1/2-20, 1/2-13, 3/4-16, 3/4-10   |
| Complete Puller Set | Side rods in set are provided two each in 5" (CJ84-5), 10" (CJ84A2) and 20" (CJ84-3) lengths |                             |                |               | 3/8"-24, 3/8"-16, 5/16"-24, 5/16"-18, 7/16"-20, 5/8"-18, 5/8"-11, 7/16"-14 |
| CJ84C               | 33 (838)   |                             | 1-14 x 33      | 5/8-18        |  |
| Basic Puller Set    |  | 2-5/8-11-5/8                |                |               | 1/2"-20, 1/2"-13, 5/8"-18, 5/8"-11, 3/4"-16, 3/4"-10                       |



## BAR-TYPE MANUAL PUSH-PULL SETS

### 6-Ton Capacity (5.4 t), Push-Pull

| Stock No.                     | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) | Pressure Screw Size, inches | Pressure Screw Adaptor | Side Rods               | Side Rod Adaptors     |
|-------------------------------|----------------------------|-----------------------------|-----------------------------|------------------------|-------------------------|-----------------------|
| <b>CG706</b><br>Push/Pull Set | 14-1/8 (358)               | 2-5/8-7-1/2<br>(67-191)     | 5/8-18 x 10                 | —                      | 7/16-14 x 8<br>(4 each) | 7/16-14f x<br>5/8-18m |



CG706

### 10-Ton Capacity (9.1 t), Push-Pull

| Stock No.                     | Maximum Reach, inches (mm) | Maximum Spread, inches (mm) | Pressure Screw Size, inches | Pressure Screw Adaptor       | Side Rods                          |
|-------------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------------|
| <b>CG710</b><br>Push/Pull Set | 17-5/8 (448)               | 3-9/16-9-3/8<br>(90-238)    | 3/4-16 x 12                 | CG710-3 3/4-16f<br>x 5/8-18m | (2) 5/8-18 x 8,<br>(2) 5/8-18 x 12 |



CG710

## BAR-TYPE HYDRAULIC/MANUAL SETS

### 6-Ton Capacity (5.4 t), Hydraulic

| Stock No.                        | Maximum Reach, inches (mm)                | Maximum Spread, inches (mm) | Pressure Screw Size, inches | Pressure Screw Adaptor | Side Rods   | Side Rod Adaptors     |
|----------------------------------|---|-----------------------------|-----------------------------|------------------------|-------------|-----------------------|
| <b>CG656HY*</b><br>Hydraulic Set | 14-1/8 (358)                              | 2-5/8-7-1/2<br>(67-191)     | 5/8-11 x 13-3/4             | 5/8-11f x<br>5/8-18m   | 7/16-14 x 8 | 7/16-14f x<br>5/8-18m |
| <b>CG656</b>                     | CG656HY Set less the hydraulic components |                             |                             |                        |             |                       |

\*Included with hydraulic ram



CG656HY

### 10-Ton Capacity (9.1 t), Hydraulic

| Stock No.                       | Maximum Reach, inches (mm)                | Maximum Spread, inches (mm) | Pressure Screw Size, inches | Pressure Screw Adaptor                      | Side Rods                   | Side Rod Adaptors |
|---------------------------------|---|-----------------------------|-----------------------------|---|-----------------------------|-------------------|
| <b>CG150HY</b><br>Hydraulic Set | 17-5/8 (448)                              | 3-9/16-9-3/8<br>(90-238)    | 3/4-10 x 16-1/4             | 3/4-10f x 5/8-<br>18m, 3/4-10f x<br>3/4-16m | 5/8-18 x 8, 5/8-<br>18 x 12 | —                 |
| <b>CG150</b>                    | CG150HY Set less the hydraulic components |                             |                             |   |                             |                   |



CG150HY

### 20-Ton Capacity (18.1 t), Hydraulic

| Stock No.                        | Maximum Reach, inches (mm)                | Maximum Spread, inches (mm) | Pressure Screw Size, inches | Pressure Screw Adaptor | Side Rods, inches           | Side Ride Adaptors, inches              |
|----------------------------------|---|-----------------------------|-----------------------------|------------------------|-----------------------------|---|
| <b>CG450HYA</b><br>Hydraulic Set | 24 (610)                                  | 6-15 (152-381)              | 1-1/8-8 x 20-1/2            | —                      | 7/8-14 x 20,<br>7/8-14 x 10 | 7/8-14f x 7/8-14m,<br>7/8-14f x 5/8-18m |
| <b>CG450</b>                     | CG450HY Set less the hydraulic components |                             |                             |                        |                             |   |
| <b>CG350</b>                     | Manually operated version of the CG450    |                             |                             |                        |                             |   |

\*Included with hydraulic ram



CG450HYA

### 35-Ton Capacity (31.7 t), Hydraulic

| Stock No.      | Maximum Reach, inches (mm)                | Maximum Spread, inches (mm) | Pressure Screw Size, inches | Pressure Screw Adaptor | Side Rods               | Side Rod Adaptors                     |
|----------------|---|-----------------------------|-----------------------------|------------------------|-------------------------|---------------------------------------|
| <b>CG750HY</b> | 26 (660)                                  | 8-1/2-17<br>(216-432)       | 1-3/8-8 x 25                | 1-3/8-8f x<br>7/8-14m  | 1-14 x 20,<br>1-14 x 10 | 1-14f x 7/8-14m,<br>7/8-14f x 3/4-16m |
| <b>CG750</b>   | CG750HY Set less the hydraulic components |                             |                             |                        |                         |                                       |



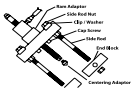
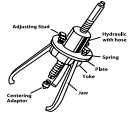
CG750HY



- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

# PULLERS: REFERENCE CHARTS

## Heavy-Duty



| Stock No. | Hydraulic Unit | Ram Adaptor | Hydraulic Adaptor | Yoke     | Pressure Screw | 4" Dia. Plug | Plate   | Spring      | Adj. Stud   | Jaws                      | Side Arms/Side Plate | Arm Bolts Arm Nuts | Washers/Cap Screws |
|-----------|----------------|-------------|-------------------|----------|----------------|--------------|---------|-------------|-------------|---------------------------|----------------------|--------------------|--------------------|
| CG654HY   | CG652          | CG250-16    | —                 | CG250-15 | —              | —            | CG250-5 | CG250-6     | —           | CG250-3 (2)               | —                    | —                  | —                  |
| CG655HY   | CG652          | CG250-16    | —                 | CG253-15 | —              | —            | CG250-5 | CG250-6     | —           | CG250-3 (3)               | —                    | —                  | —                  |
| CG274HY   | CG122          | CG270-16    | —                 | CG270-15 | —              | —            | CG270-5 | CG270-6     | —           | CG270-3 (2)               | —                    | —                  | —                  |
| CG275HY   | CG122          | CG270-16    | —                 | CG273-15 | —              | —            | CG273-5 | CG270-6     | —           | CG270-10 (3), CG270-3 (3) | —                    | —                  | —                  |
| CG276HY   | CG122          | CG270-16    | CG270-14          | CG270-15 | —              | —            | CG270-5 | CG270-6 (4) | —           | CG270-12 (2)              | —                    | —                  | —                  |
| CG277HY   | CG122          | CG270-16    | CG270-14          | CG273-15 | —              | —            | CG273-5 | CG270-6 (4) | —           | CG270-12 (3)              | —                    | —                  | —                  |
| CG400HYA  | CG420A         | —           | —                 | CG400-2  | —              | —            | CG400-5 | CG400-6 (4) | CG400-7 (4) | CG300-3 (3)               | —                    | —                  | —                  |
| CG343     | —              | —           | —                 | CG400-2  | CG300-1        | —            | CG400-5 | CG400-7 (4) | CG300-3 (3) | —                         | —                    | —                  | —                  |
| CG405HYA  | CG420A         | —           | —                 | CG400-2  | —              | —            | CG400-5 | CG400-6 (4) | CG400-7 (4) | CG305-9 (3)               | —                    | —                  | —                  |
| CG348     | —              | —           | —                 | CG400-2  | CG305-8        | —            | CG400-5 | CG400-7 (4) | CG305-9 (3) | —                         | —                    | —                  | —                  |
| CG425HYA  | CG420A         | CG425-9     | —                 | CG325-2  | —              | —            | —       | —           | —           | CG325-3 (3)               | CG325-4 (3)          | CG325-5 (3)        | CG425-7            |
| CG325     | —              | —           | —                 | CG325-2  | CG325-1        | —            | —       | —           | —           | CG325-3 (3)               | CG325-4 (3)          | CG325-5 (3)        | —                  |
| CG560HY   | CG420-2A       | —           | —                 | CG560-2  | —              | —            | —       | —           | —           | CG560-3 (3)               | CG560-4 (6)          | CG560-5 (9)        | —                  |

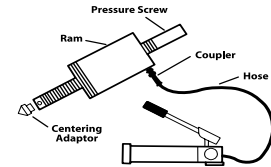
\*Included with hydraulic ram (see chart below).

## 6-ton Capacity (5.41 t), Tapped Hole

| Set Stock No. | Hyd. Unit Ram Adapt. | Yoke             | Pressure Screw | Centering Adaptor | Pressure Screw Adaptor           | Thrust Nut Thrust Washer | Side Rods (2)                         | Side Rod Hex Nuts (6) | Clip/Washer | Side Rod Conn. Nuts (2) | End Blocks (2) | Side Rod Adaptors (2) | Cap Screw (2 ea)             |
|---------------|----------------------|------------------|----------------|-------------------|----------------------------------|--------------------------|---------------------------------------|-----------------------|-------------|-------------------------|----------------|-----------------------|------------------------------|
| CJ84C         | —                    | CJ84-1B          | CJ84-4         | CJ84-16           | —                                | —                        | 5/8-18 x 10                           | —                     | MESA16 (2)  | —                       | —              | —                     | —                            |
| CG706         | —                    | CG656-2          | CG706-1        | C250-20           | —                                | CG325-6, CG706-2         | CG656-3 (4) (8")                      | CG656-7               | CG656-8 (4) | CG656-6                 | CG656-6        | CG656-12              | —                            |
| CG710         | —                    | CG150-2          | CG710-1        | CG270-20          | CG710-3                          | CG45-2, CG710-2          | CG150-3 (12"), CG150-4 (8")           | —                     | —           | —                       | CG150-6        | —                     | —                            |
| CG656HY       | CG654, CG656-9       | CG656-2          | —              | —                 | CG656-13                         | —                        | CG656-3 (8")                          | CG656-7               | CG656-8 (2) | CG656-5                 | CG656-6        | CG656-12              | CG656-11, CG656-10           |
| CG656         | —                    | CG656-2          | —              | —                 | CG656-13                         | —                        | CG656-3 (8")                          | CG656-7               | CG656-8 (2) | CG656-5                 | CG656-6        | CG656-12              | CG656-11, CG656-10           |
| CG150HY       | CG122, CG150-9       | CG150-2          | —              | *                 | CG150-12 (5/8"), CG150-13 (3/4") | —                        | CG150-3 (12"), CG150-4 (8")           | —                     | —           | CG150-6                 | —              | CG150-11, CG150-10    | —                            |
| CG150         | —                    | CG150-2          | —              | —                 | CG150-12 (5/8"), CG150-13 (3/4") | —                        | CG150-3 (12"), CG150-4 (8")           | —                     | —           | CG150-6                 | —              | CG150-11, CG150-10    | —                            |
| CG450HYA      | —                    | CG450-10         | CG425-9        | —                 | —                                | —                        | CG350-3 (18"), CG350-4 (9")           | CG350-7               | CG350-8 (2) | CG350-5                 | CG350-6        | CG350-9               | CG450-11, CG450-12           |
| CG450         | —                    | CG450-10         | CG425-9        | —                 | —                                | —                        | CG350-3 (18"), CG350-4 (9")           | CG350-7               | CG350-8 (2) | CG350-5                 | CG350-6        | CG350-9               | CG450-11, CG450-12           |
| CG350         | —                    | CG350-2          | CG425-9        | —                 | —                                | —                        | CG350-3 (18"), CG350-4 (9")           | CG350-7               | CG350-8 (2) | CG350-5                 | CG350-6        | CG350-9               | CG450-11, CG450-12           |
| CG750HY       | See Hyd. Unit Chart  | CG750-2          | —              | —                 | CG750-11 (7/8"), CG750-13 (7/8") | —                        | CG750-3 (20"), CG750-4 (10")          | CG750-7               | CG750-8 (2) | CG750-5                 | CG750-6        | CG750-9, CG750-10     | CG750-11, CG750-12           |
| CG750         | CG720-9              | CG750-2, CG550-2 | —              | —                 | CG750-14 (1-1/8")                | —                        | CG750-3 (20"), CG550-3, CG750-4 (10") | CG750-7, CG550-7      | CG750-8 (2) | CG350-5                 | CG750-6        | CG750-9, CG750-10     | CG750-11, CG550-10, CG750-12 |

\*Included with hydraulic ram (see chart below).

# PULLERS: REFERENCE CHARTS



## Pump and Ram Sets

| Stock No. | Capacity, tons | Ram      | Included with Ram Pressure Screw | Included with Ram Centering Adaptor | Hose      | Coupler | Pump     | Optional Pressure Gauge | Items* Gauge Adaptor |
|-----------|----------------|----------|----------------------------------|-------------------------------------|-----------|---------|----------|-------------------------|----------------------|
| CG222     | 4              | CG220    | CG220-13                         | —                                   | CG120-3-1 | CG120-4 | CG4-2A   | —                       | —                    |
| CG652     | 6              | CG650    | CG650-13                         | CG250-20                            | CG120-3-1 | CG120-4 | CG4-2A   | CG420-6                 | CG420-5C             |
| CG122     | 10             | CG120    | CG120-13                         | CG270-20                            | CG120-3-1 | CG120-4 | CG4-2A   | CG420-6                 | CG420-5C             |
| CG420A    | 20             | CG420-1A | CG420-1-13A                      | CG420-1-14                          | CG420-3-1 | CG420-4 | CG420-2A | CG420-5C                | CG420-6              |

\*Standard with CG559 Bar-Style Puller Set.

# PULLERS: BAR-TYPE ADAPTORS

## Male Adaptors

| Stock No. | Female Thread | Male Thread |
|-----------|---------------|-------------|
| CG656-12  | 7/16"-14      | 5/8"-18     |
| CG656-13  | 5/8"-11       | 5/8"-18     |
| CJ84-6    | 5/8"-18       | 5/16"-24    |
| CJ84-15   | 5/8"-18       | 5/16"-18    |
| CJ84-7    | 5/8"-18       | 3/8"-24     |
| CJ84-10   | 5/8"-18       | 3/8"-16     |
| CJ84-8    | 5/8"-18       | 7/16"-20    |
| CJ84-18   | 5/8"-18       | 7/16"-14    |
| CJ84-9    | 5/8"-18       | 1/2"-20     |
| CJ84-11   | 5/8"-18       | 1/2"-13     |
| CJ84-17   | 5/8"-18       | 5/8"-18     |
| CJ84-12   | 5/8"-18       | 5/8"-11     |
| CJ84-13   | 5/8"-18       | 3/4"-16     |
| CJ84-14   | 5/8"-18       | 3/4"-10     |
| CG710-3   | 3/4"-16       | 5/8"-18     |
| CG150-12  | 3/4"-10       | 5/8"-18     |
| CG150-13  | 3/4"-10       | 3/4"-16     |
| CG46-7*   | 3/4"-10       | 1"-14       |
| CG46-8**  | 3/4"-16       | 1"-14       |
| CG750-9   | 1"-14         | 3/4"-16     |
| CG750-10  | 1"-14         | 7/8"-14     |
| CG455-18  | 1-1/8"-8      | 5/8"-18     |
| CG455-19  | 1-1/8"-8      | 7/8"-14     |
| CG47-420  | 1-1/8"-8      | 1-1/4"-12   |
| CG550-9   | 1-3/8"-6      | 1-3/4"-12   |
| CG455-1   | 7/8"-14       | 5/8"-18     |
| CG455-2   | 7/8"-14       | 5/8"-11     |
| CG455-3   | 7/8"-14       | 3/4"-16     |
| CG455-4   | 7/8"-14       | 7/8"-10     |
| CG455-5   | 7/8"-14       | 7/8"-9      |
| CG455-6   | 7/8"-14       | 1"-14       |
| CG455-7   | 7/8"-14       | 1"-8        |
| CG455-8   | 7/8"-14       | 1-1/8"-12   |

\*For attaching CG46 Series pullers to CG105HY Hydraulic Bar-Style Puller.

\*\*For attaching CG46 Series pullers to CG710 Push/Pull Set.

### CG455 16 pc Male Adaptor Set

- Includes 16 pc (2) each of the male adaptors CG455-1–CG455-8



CG455



CG455A

## Female Adaptors

| Stock No. | Female Thread         |
|-----------|-----------------------|
| CG455-9   | 7/8"-14 and 5/8"-18   |
| CG455-10  | 7/8"-14 and 3/4"-16   |
| CG455-11  | 7/8"-14 and 1"-14     |
| CG455-12  | 7/8"-14 and 1-1/8"-8  |
| CG455-13  | 7/8"-14 and 1-1/8"-12 |
| CG455-14  | 7/8"-14 and 1-1/4"-8  |
| CG455-15  | 7/8"-14 and 1-1/4"-12 |
| CG455-17  | 7/8"-14 and 1-1/2"-12 |
| CG455-16  | 7/8"-14 and 1-1/2"-8  |

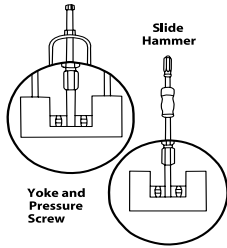
### CG455A 18 pc Female Adaptor Set

- 18 pc (2) each of the female adaptors



- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

# PULLERS: BLIND HOLE BEARING



CG40CB

| Stock No. | Description          | Internal Thread Size | External Thread Size |
|-----------|----------------------|----------------------|----------------------|
| CG40-1    | Pressure Screw       | —                    | —                    |
| CG40-2    | 15/16" Nut           | —                    | —                    |
| CG40-3    | 3 1/4" Spread Yoke   | —                    | —                    |
| CG41-11   | Expanding Rod        | 5/8-18               | 3/8-24               |
| CG41-14   | 1/4-5/16" Collet     | —                    | —                    |
| CG41-12   | 5/16-3/8" Collet     | —                    | —                    |
| CG41-13   | 3/8-7/16" Collet     | —                    | —                    |
| CG40-4    | 1/2-20 Expanding Rod | 5/8-18               | 1/2-20               |
| CG40-9    | 7/16-1/2" Collet     | —                    | —                    |
| CG40-15   | 1/2"-5/8" Collet     | —                    | —                    |
| CG40A6    | 5/8-3/4" Collet      | —                    | —                    |
| CG40-7    | 3/4-7/8" Collet      | —                    | —                    |
| CG40-8    | 7/8-1" Collet        | —                    | —                    |
| CG40A10   | 1-1-1/8" Collet      | —                    | —                    |

### CG40CB 14 pc Blind Hole Bearing Puller Set

- 14 pc collets, yoke, pressure screw and expanding rods
- Range 1/4-1-1/8"
- Includes a storage box

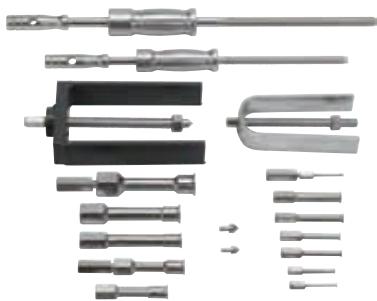


CG45

| Stock No. | Description                                     | Internal Thread Size | External Thread Size |
|-----------|---|----------------------|----------------------|
| CG270-1A  | Pressure Screw                                  | —                    | —                    |
| CG45-2    | 1-1/8" Wrench Size Thrust Nut                   | —                    | —                    |
| CG45-3    | 5-3/4" spread Yoke                              | —                    | —                    |
| CG45-4    | Expanding Rod                                   | 3/4-16               | 5/8-18               |
| CG45-15   | 1-1-1/4" Collet                                 | —                    | —                    |
| CG45-6    | 1-1/4-1-1/2"                                    | —                    | —                    |
| CG45-7    | 1-1/2-1-3/4" (Uses CG45-4 Expanding Rod) Collet | —                    | —                    |

### CG45 7 pc Blind Hole Bearing Puller Set

- Includes 7 pc (1-1-3/4") collets, yoke, slide screw and slide hammer



CG2545AB

| Stock No. | Description                                     | Internal Thread Size | External Thread Size |
|-----------|---|----------------------|----------------------|
| CG250-8A  | 5/8"-18 UNF x 18 9/16" Slide Screw              | —                    | —                    |
| CG250-9   | 2 lb Slide Hammer                               | —                    | —                    |
| CG40-1    | Pressure Screw                                  | —                    | —                    |
| CG40-2    | 15/16" Nut                                      | —                    | —                    |
| CG40-3    | 3 1/4" Spread Yoke                              | —                    | —                    |
| CG41-11   | Expanding Rod                                   | 5/8-18               | 3/8-24               |
| CG41-14   | 1/4-5/16" Collet                                | —                    | —                    |
| CG41-12   | 5/16-3/8" Collet                                | —                    | —                    |
| CG41-13   | 3/8-7/16" Collet                                | —                    | —                    |
| CG40-4    | 1/2-20 Expanding Rod                            | 5/8-18               | 1/2-20               |
| CG40-9    | 7/16-1/2" Collet                                | —                    | —                    |
| CG40-15   | 1/2"-5/8" Collet                                | —                    | —                    |
| CG40A6    | 5/8-3/4" Collet                                 | —                    | —                    |
| CG40-7    | 3/4-7/8" Collet                                 | —                    | —                    |
| CG40-8    | 7/8-1" Collet                                   | —                    | —                    |
| CG40A10   | 1-1-1/8" Collet                                 | —                    | —                    |
| CG270-1A  | Pressure Screw                                  | —                    | —                    |
| CG45-2    | 1-1/8" Wrench Size Thrust Nut                   | —                    | —                    |
| CG45-3    | 5-3/4" Spread Yoke                              | —                    | —                    |
| CG45-4    | Expanding Rod                                   | 3/4-16               | 5/8-18               |
| CG45-15   | 1-1-1/4" Collet                                 | —                    | —                    |
| CG45-6    | 1-1/4-1-1/2"                                    | —                    | —                    |
| CG45-7    | 1-1/2-1-3/4" (Uses CG45-4 Expanding Rod) Collet | —                    | —                    |

### CG2545AB 25 pc Blind Hole Bearing Puller Set

- Includes 25 pc collets, yokes, slide screw and slide hammer

## PULLERS: BLIND HOLE BEARING



CG46

| Stock No. | Description                                 | Internal Thread Size | External Thread Size |
|-----------|---|----------------------|----------------------|
| CG46-1    | 1"-14 x 18" Slide Screw                     | —                    | —                    |
| CG46-2    | 6 lb Slide Hammer                           | —                    | —                    |
| CG46-3    | Expanding Rod                               | 1-14                 | 1-1/8-12             |
| CG46-4    | 1-5/8-2" (uses CG46-4 Expanding Rod) Collet | —                    | —                    |
| CG46-5    | 2-2-1/2" (uses CG46-4 Expanding Rod) Collet | —                    | —                    |
| CG46-6    | 2-1/2-3" (uses CG46-4 Expanding Rod) Collet | —                    | —                    |

### CG46 6 pc Blind Hole Bearing Puller Set

- Includes (3) collets, slide screw, slide hammer and expanding rod
- For large size blind hole bearings, Torrington® needle bearings, heavy-duty bearings on live center lathes, conveyor belts and rollers



CG47

| Stock No. | Description  | Internal Thread Size | External Thread Size |
|-----------|--|----------------------|----------------------|
| CG4567N   | 11/4"-12 x 24" Slide Screw                         | —                    | —                    |
| CG4567O   | 10 lb Slide Hammer                                 | —                    | —                    |
| CG47-201  | Expanding Rod                                      | 1-1/4-12             | 1-1/8-12             |
| CG47-202  | Master Collet                                      | —                    | —                    |
| CG47-203  | 3-3-1/2" (uses CG47-201 Expanding Rod) Collet Pad  | —                    | —                    |
| CG47-204  | 3-1/2-4" (uses CG47-201 Expanding Rod) Collet Pad  | —                    | —                    |
| CG47-205  | 4-4-1/2" (uses CG47-201 Expanding Rod) Collet Pad  | —                    | —                    |
| CG47-206  | 3-1/2-5" (uses CG47-201 Expanding Rod) Collet Pad  | —                    | —                    |
| CG47-207  | 5- 5-1/2" (uses CG47-201 Expanding Rod) Collet Pad | —                    | —                    |
| CG47-208  | 5-1/2-6" (uses CG47-201 Expanding Rod) Collet Pad  | —                    | —                    |
| CG47-209  | 6-6-1/2" (uses CG47-201 Expanding Rod) Collet Pad  | —                    | —                    |
| CG47-210  | 6-1/2-7" (uses CG47-201 Expanding Rod) Collet Pad  | —                    | —                    |
| CG47-211  | 3/4" Screw   | —                    | —                    |
| CG47-212  | 1-3/4" Screw                                       | —                    | —                    |

### CG47 13 pc Blind Hole Bearing Puller Set

- Includes 13 pc master collet, pads, slide screw and slide hammer
- Pulling size is altered by changing pads

## Accessories

### CG40-11 43/64-53/64" Collet

- For needle bearings on Leece-Neville® alternators
- Used with the CG40-4 Expanding Rod

### CG40-12 15-18 mm Collet

- For pilot bearings on late-model Ford® transmissions
- Used with the CG40-4 Expanding Rod

### CG40-4-1 4" Collet Extension

- For CG40 Series collets

### CG46-8 Male Adaptor

- Female thread 3/4"-16
- Male thread 1"-14
- For attaching CG46 Series pullers to the CG710 Push-Pull Set

### CG46-7 Male Adaptor

- Female thread 3/4"-10
- Male thread 1"-14
- For attaching the CG46 Series pullers to the CG105HY hydraulic bar style puller

### CG47-420 Male Adaptor

- Female thread 1-1/8"-8
- Male thread 1-1/4"-12
- For attaching the CG47 Series pullers to the CG450HYA Hydraulic Bar-Style Puller

### CJ105-4B Slide Screw

- Included with the CJ2003A Rear Axle Puller Set
- 3/4"-16 x 22-1/2"

### CJ97-3A 3-3/4 lb Slide Hammer

- Included with the CJ2003A Rear Axle Puller Set



- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- Read safety precautions on pages W1 to W4

## DIESEL: DIESEL SERVICE SETS



CUMDS12V



CUMDS24V

### Cummins® B and C Series

| Stock No. | Description  | Applications |               |           |      | Set Contents |          |
|-----------|--|--------------|---------------|-----------|------|--------------|----------|
|           |  | 12 Valve     | 24 Valve      |           |      | CUMDS12V     | CUMDS24V |
|           |  | Pre-1994     | 1994-1998-1/2 | 1999-2002 | 2003 | 12 Valve     | 24 Valve |
| FB300A‡   | Bent Blade Feeler Gauge (Blue-Point®)                                  | •            | •             | •         | •    | •            |          |
| EEP500‡   | Diesel Compression Gauge   | •            | •             | •         | •    | •            |          |
| MB5D      | Bronze Injector Brush (Blue-Point®)                                    | •            | •             | •         | •    | •            |          |
| MB6BTA    | 9" Injector Brush (Blue-Point®)  | •            | •             | •         | •    | •            |          |
| YA9565A   | Engine Turning Tool (Blue-Point®)                                      | •            | •             | •         | •    | •            |          |
| CJ140-1   | Slide Hammer Injector Puller   | •            | •             | •         | •    | •            |          |
| CJ142     | M14 Diesel Injector Puller Adaptor                                     | •            |               |           | •    |              |          |
| FRHM17    | 3/8" Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Crowfoot Wrench | •            |               |           | •    |              |          |
| FRXM17    | 3/8" Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Socket          | •            |               |           | •    |              |          |
| M3584     | Compression Adaptor  | •            |               |           | •    |              |          |
| SP144     | Injection Pump Wrench (Blue-Point®)                                    | •            |               |           | •    |              |          |
| TSM24     | 1/2" Drive 6-Point Metric 24 mm Flank Drive® Deep Socket               | •            |               |           | •    |              |          |
| FRHM19    | 3/8" Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Crowfoot Wrench |              | •             | •         |      | •            |          |
| FRXM19    | 3/8" Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Socket          |              | •             | •         |      | •            |          |
| EEPV313C‡ | Diesel Compression Gauge Adaptor                                       |              | •             | •         |      | •            |          |
| CJ143     | 8 mm Diesel Injector Puller  |              | •             | •         |      | •            |          |
| CJ144     | 15 mm Diesel Injector Puller   |              | •             | •         |      | •            |          |
| SP504     | Gear Puller (Blue-Point®)  |              | •             | •         |      | •            |          |
| CJ148     | Fuel Line Plug   |              | •             | •         |      | •            |          |
| CJ149     | Fuel Tube Remover  |              | •             | •         |      | •            |          |
| TB40      | Tote Bag   |              |               |           | •    | •            |          |

### Optional Tools

#### CUMDS12V 14 pc 12 Valve Diesel Set for Cummins® B and C Series Engines

- Includes 3/8" drive 6-point metric 17 mm flare nut socket and flare nut crowfoot wrench, 1/2" drive 6-point metric 24 mm deep socket, feeler gauge, diesel compression adaptor, bronze injector brush, stainless steel injector brush, injection pump wrench, 10 mm idle lock nut wrench, 12 mm diesel injector puller adaptor, M14 x 1.5 diesel injector puller adaptor, slide hammer injector puller, engine turning tool and 0-800 PSI diesel compression gauge
- Includes a tote bag

### Steering Wheel Pullers

#### CJ145 Steering Wheel Puller for GM® Vehicles

- Use on new GM® steering wheels with air bags, including tilting and telescoping styles
- Handle attachment facilitates puller setup and can be removed when working in confined areas
- Applications: Buick® (1997 and later Park Avenue/Regal®), Cadillac® (1997 and later Catera), Chevrolet®/GMC® (1997 and later Corvette®/Malibu®, 1998 C and K series trucks, 1998 full size vans, 1998 Astro/Safari® vans), Oldsmobile® (1997 and later Cutlass) and Pontiac® (1988 1993 LeMans, 1997 and later Grand Prix®/Trans Sport van)

### Diesel Timing Gauge Set

#### SP504 Gear Puller (Blue-Point®)

- Used to remove the injection pump gear
- Bolt thread is M8 x 1.25
- Bolt length is 44 mm

#### CUMDS24V 14 pc 24 Valve Diesel Set for Cummins® B and C Series Engines

- Services Cummins® B and C Series 12- and 24-valve engines 1994 and later
- Additional uses include Dodge® heavy-duty pickups and all applications with ISB and ISC diesel engines
- Includes 3/8" drive 6-point metric 19 mm flare nut socket, 3/8" drive 6-point metric 19 mm flare nut crowfoot wrench, feeler gauge, bronze injector brush, stainless steel injector brush, gear puller, 8 mm diesel injector puller, 15 mm diesel injector puller, slide hammer injector puller, engine turning tool, diesel compression gauge adaptor, fuel line plug, fuel tube remover and 0-800 PSI diesel compression gauge
- Includes a tote bag

#### TWM14A 1/2" Drive 6-Point Metric 14 mm Flank Drive® Shallow Socket

### Cummins® B and C Series

#### FRXM19 3/8" Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Socket

### Optional Tools for Cummins® B and C Series Engine Sockets

#### FRXM21 3/8" Drive 6-Point Metric 21 mm Flank Drive® Flare Nut Socket

- Manufactured from special steel with a higher alloy content
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

## Diesel Timing Gauge Set

### SP500 † Diesel Timing Gauge Set (Blue-Point®)

- Used to update existing 2017DSP diesel service sets to handle 1994–1998 Cummins® B engines used in Dodge® Ram® 250/350 pickup trucks and some Ford® trucks

### SP503 † Spline Socket (Blue-Point®)

- Used to remove and replace the delivery valve on most Bosch® fuel injection pumps

### SP504 Gear Puller (Blue-Point®)

- Used to remove the injection pump gear
- Bolt thread is M8 x 1.25
- Bolt length is 44 mm

### SP5001 † Dial Indicator (Blue-Point®)

- Features rack and pinion construction
- Refer to the pump manufacturer's service manual when using this gauge
- Gauge diameter is 2-1/4"
- Range is 30 mm
- Gauge is marked in .01 mm increments

### SP5002 † Gauge Holder (Blue-Point®)

- Used in the fuel injection pump in place of the #1 delivery valve to locate the base circle of the injection pump cam
- Male thread is M22 x 1.5



## DIESEL: SERVICE TOOLS FOR CUMMINS® ENGINES

## Pulley Installers and Pullers

### M1324 Pulley Installer

- For installing the accessory drive pulley on the shaft
- Includes 7/8"-14 NC threaded adaptor, washer type bearing and installer housing

### CJ83C Pulley and Gear Puller

- Ideal for servicing crankshaft pulleys, gears and timing gears on a wide range of gasoline and diesel engines, including Cummins® accessory drives and water pumps
- Includes (2) 3/8"-16 x 3", 5/16"-18 x 2-1/2" and M10-1.5 x 65 mm bolts
- Nominal capacity is 3-1/2 ton

### CJ86-1 Yoke

- Included with the CJ2002 Gear Puller Set
- 1-3/4-4-1/2"

### CJ83-3 Pressure Screw

- 3/4-16 x 5-1/8"

### CJ66-15-3 Centering Point

- 5/8" head, 90° outward point

### ME5A54 Washer

### ME5A55 Washer

### ME3A45 Stud

### ME3A44 Bolt

### ME3A75 Stud



## Torque Adaptor Set

### M1302A5 Screwdriver

- 1/2 x .062" screwdriver

### M1302B18 12-Point Deep Socket

- 9/16" deep, 12-point socket

### M1302B24 12-Point Deep Socket

- 3/4" deep, 12-point socket

### ST669 6 pc Torque Adaptor Set

- Used to loosen and adjust lock nuts to manufacturing specifications

### ST669-1 Handle Assembly

- Included in the ST669 Torque Adaptor Set

### TM82 1/4" Drive 1/4" Flat

### Tip Short Bit Socket

- Manufactured from high-grade alloy steel



## Compression Adaptors/Injector Style

### M3540C † Compression Adaptor

- For Cummins® 855 in<sup>3</sup> NH, and 903 V8 and L10 diesel engines

### M3585C Compression Adaptor

- For Case®/Cummins® Series C 8.3 L engines

### M3584C † Compression Adaptor

- For Case®/Cummins® Series B 2.9 L, 3.9 L and 5.9 L diesel engines



## Injector Brushes

### MB5D Bronze Injector Brush (Blue-Point®)

- Bronze non-abrasive brush cleans carbon from injector tips

### MB6BTA 9" Injector Brush (Blue-Point®)

- Stainless steel wire brush cleans the injector cavity in the cylinder head
- 9" long



- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size puller for the job
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**DIESEL: SERVICE TOOLS FOR CUMMINS® ENGINES**



CJ148

CJ149



YA6615

**Fuel Line Tools**

**CJ148 Fuel Line Plug**

- For plugging fuel lines

**CJ149 Fuel Tube Remover**

- For fuel inlet tubes on late-model vehicles

**YA6615 24 mm Flare Nut Wrench for Cummins® (Blue-Point®)**

- Used on Dodge® trucks with 5.9 L engines (2003 and later) and 6.7 L engines (2007 and later)
- Easily slides into the confined area of the cylinder head
- Wrench is required to hold the 24 mm flare nut while the 19 mm fuel line coupler is loosened
- Helps prevent costly damage to the fuel lines



M1328A

M1321

M1329

**Air Compressor Fuel Pump Wrenches**

**M1328A Air Compressor/Fuel Pump Wrench**

- Includes a 5/8", 12-point box wrench on one end for servicing fuel pumps and a specially designed 11/16" open end for access to air compressor bolts

**M1321 Air Compressor/Fuel Pump Wrench**

- Similar to M1328A but has a 12-point box wrench on both ends
- Accommodates air compressor and fuel pump flange bolts on NH Series Inline 6-cylinder engines

**M1329 Fuel Pump Wrench**

- Includes a 7/16", 12-point box end for servicing fuel pump bolts on NH Series engines equipped with Cummins® air compressors
- 6-5/8" long



M1322

**Valve Adjusting Wrenches**

**M1322 Valve Adjusting Wrench**

- 3/4", 12-point box wrench to tighten lock nuts on rocker arms
- Designed to clear the aftercooler
- 14-3/4" long

**M1319 Valve Adjusting Wrench**

- 7/8", 12-point box wrench to tighten lock nuts on rocker arms
- Designed to clear the aftercooler
- 12" long

**Injector Pullers**

**CJ125A Injector Puller**

- Slide hammer puller services D, top stop and small V8 injectors
- 10-1/2" long

**CJ140 5 pc Diesel Injector Puller Set**

- Used on fuel injectors in Cummins® B and C Series 3.9 L, 5.9 L and 8.3 L engines used in Dodge® pickups, Case® tractors and off-road equipment
- Will service all 1994-1998-1/2 standard injectors, as well as fuel inlet tubes

**CJ140-1 Slide Hammer Injector Puller**

- Used to pull injectors from heads on 1998-1/2-2002 Dodge® and Cummins® engines
- 8 x 1.25 mm thread
- Use the CJ144 Puller to pull the fuel inlet tube prior to removing the injector

**CJ141 Diesel Injector Puller Adaptor**

- Used on Cummins® diesel injectors prior to 1994

**CJ142 M14 Diesel Injector Puller Adaptor**

- Used on Cummins® diesel injectors from 1994-1998-1/2

**CJ143 8 mm Diesel Injector Puller**

- Used on 1998-1/2 Cummins® diesel injectors in tight-access areas

**CJ144 15 mm Diesel Injector Puller**

- Used on 1998-1/2-2002 Cummins® diesel fuel inlet tubes



CJ125A

CJ140

CJ141



**Injector Pump Idle Lock Nut Wrenches**

**SP144 Injection Pump Wrench (Blue-Point®)**

- 13 mm, 12-point box wrench is used to service the injection pump mounting bolts found on 5.9 L Cummins® engines



SP144

**Engine Turning Tools**

**YA9565A Engine Turning Tool (Blue-Point®)**

- Used to rotate the engine for making valve and injection pump adjustments on Cummins® and Case® 3.9 L, 5.9 L and 8.3 L B and C Series engines

**Injector Height Gauges**

- Used to set injectors during installation and at set service intervals
- Knurled handle screws into the gauge at a 90° angle for work in close quarters

**SP7882 6 pc Diesel Injector Height Gauge Set**

- Five-in-one gauge set covers all applications for Detroit Diesel® 50 and 60 Series engines
- Includes (5) injector height gauges and (1) handle
- Includes a storage pouch

**SP7882-1 Diesel Injector Height Gauge Handle**

**SP7882-782 Injector Height Gauge (Blue-Point®)**

**SP7882-788 Injector Height Gauge (Blue-Point®)**

**SP7882-803 Injector Height Gauge (Blue-Point®)**

**SP7882-810 Injector Height Gauge (Blue-Point®)**

**SP7882-821 Injector Height Gauge (Blue-Point®)**



SP7882



SP7882-1



SP7882-782



SP7882-788



SP7882-803



SP7882-810



SP7882-821

**Diesel Fuel System Tools**

**FPWD14 Duramax® Fuel Pressure Sensor Wrench**

- Saves hours of time by eliminating the need to remove the EGR cooler system and fuel rail—simply unbolt air conditioning compressor to remove the front EGR valve
- 2 pc design reduces the time required to service the fuel pressure release valve
- Tool slips onto the release valve from back to front allowing the handle to slide into the crescent end of the socket, making loosening the fuel pressure release valve easier



FPWD14

**Ford® Fuel Filter Wrench**

**FFW2A 24/36 mm Fuel Filter Socket (Blue-Point®)**

- Double-sided 3/8" drive socket includes both a 24 mm 6-point socket and a 36 mm slotted socket
- Made of machined aluminum and anodized for surface protection



FFW2A

**Hand Sockets**

**HXD22 1/2" Drive External Hex 22 mm Socket**

- Essential for removing motorcycle front wheels
- Use torque wrench for axle torque specs
- Use breaker bar to remove difficult fasteners



HXD22

**Hand Sockets**

**HXD24 1/2" Drive External Hex 24 mm Socket**

- Essential for removing motorcycle front wheels
- Use torque wrench for axle torque specs
- Use breaker bar to remove difficult fasteners
- Applications: Suzuki® motorcycles (1300GSXR and 1000GSXR); Hayabusa® motorcycles (various models)



HXD24



- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use the proper type and size puller for the job
- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages W1 to W4

## DIESEL TOOLS



ORG1315

### Oil Rail Gauge

#### ORG1315 Oil Rail Gauge

- Correctly determine dimension and select correct back-up ring when installing high-pressure oil manifolds
- Used to install high-pressure oil manifolds on International® DT466 and MaxxForce® engines from 2004–2013
- All three sizes in one tool
- No stacking of feeler gauges
- Heat treated 4130 for durability and accuracy
- Red vinyl-dipped handle for increased visibility
- Large ring end for easy handling



FDT1116

### Fuel Line Disconnect Tools

- This set includes a total of four fuel line disconnect tools: –two tools—a straight and a 90° angle—for the 11.8 mm fuel lines and; –two tools—a straight and a 90° angle—for the 16 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools—the straight tools allow access into tight areas
- All four tool handles are highly visible orange for easy identification

#### FDT11 Angled Fuel Disconnect Tool

- 90° angle for 11.8 mm fuel lines
- Handle is highly visible orange for easy identification

#### FDT11STR Straight Fuel Disconnect Tool

- For 11.8 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools the straight tools allow access into tight areas
- Handle is highly visible orange for easy identification

#### FDT16 Angled Fuel Disconnect Tool

- 90° angle for 16 mm fuel lines
- Handle is highly visible orange for easy identification

#### FDT16STR Straight Fuel Disconnect Tool

- For 16 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools the straight tools allow access into tight areas
- Handle is highly visible orange for easy identification

#### FDT1116 Fuel Line Disconnect Tool Set

- Includes (4) fuel line disconnect tools—a straight and a 90° angle for the 11.8 mm fuel lines and a straight and a 90° angle for the 16 mm fuel lines
- OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools—the straight tools allow access into tight areas
- All four tool handles are highly visible orange for easy identification
- Set includes FDT11, FDT11STR, FDT16 and FDT16STR



FCT706



M3530



M3531

### Governor Gap Wrenches

#### M3530 Governor Gap Adjusting Wrench

- 3/8" open ends, 4" long
- Special thin design with 30° and 60° angle heads

#### M3531 Governor Gap Lock Nut Wrench

- 7/16" open ends and is 4-1/4" long
- Special thin design with 30° and 60° angle heads



B4400A



WSW3

### Starter Bolt and Fuel Filter Wrenches

#### WSW3 Duramax® Fuel Filter Water Sensor Wrench

- Glass-filled nylon tool with four sizes: 40, 41, 42 and 46 mm
- All-in-one tool that works on all four OEM and aftermarket sizes available in the marketplace today
- Applications: 6.6L Duramax® Diesel engines including 2001–current Chevy® Silverado® and GMC® Sierra® 2500 and 3500 vehicles

#### B4400A Starter Bolt Wrench

- Manufactured from special alloy steel and heat treated for optimum strength
- Specially contoured for tight-access areas
- Used for John Deere® starter bolts

### Fan Clutch Wrench

#### FCT706 Fan Clutch Wrench (Blue-Point®)

- Used for heavy-duty truck engines
- Hole pattern on the tool aligns with fasteners on the fan hub
- Use with open end to remove a fan clutch
- 24-1/2" length for maximum leverage

**Feeler Gauges**

**FB325A ‡ SAE and Metric Feeler Gauge Set (Blue-Point®)**

- Includes blade sizes .0015 and .002–.025"
- Use for adjusting governor gap
- Double stamped with SAE and metric sizes

**FB308D ‡ Step Feeler Gauge Set and Holder (Blue-Point®)**

- Used for adjusting valves
- Includes 12 step blades in sizes .008"/.010"–.028"/.030"

**FB328A ‡ Step Feeler Gauge Set and Holder (Blue-Point®)**

- For adjusting valves
- Includes two step blades: .011"/.013" and .013"/.015"
- For valve adjustment on GM® 8.2L engines
- Double stamped with SAE and metric size



FB325A



FB308D



FB328A

**Push Rod Wrenches**

**M3517B Push Rod Lock Nut Wrench**

- 1/2" open end, 102° offset handle

**M3518 Push Rod Adjusting Wrench**

- 5/16" open end, 102° offset handle



M3517B



M3518



M3525A



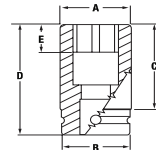
M3503B



S6200



FLS1219



**Special Application Sockets**

**M3525A 1/2" Drive Spanner Socket**

- 1/2" drive, 3-7/32" long
- Includes 1-1/8" internal hex for use on "Fuel Squeezer" Series engines

**M3503B 3/8" Drive Fuel Line Nut Socket**

- 1/2" wrench opening
- 3/8" drive, 6-point
- Shaped for access to fuel line nuts
- 3-1/4" long
- Additional applications include the head temperature sensor on Buell® Motorcycles

**S6200 1/2" Drive 12-Point Metric 12 mm Engine Bearing Cap Bolt Impact Socket**

- Use to service engine cam bearing cap bolts on both older and newer generation Detroit Diesel® engines
- Newer generation Detroit Diesel® engines use longer cam bolts than earlier generation engines
- The S6200 is specially designed to work on both engine generations
- 4-3/8" long

**FLS1219 1/2" Drive Fuel Line Socket**

- Designed to easily torque fuel injector lines correctly, reducing or eliminating the possibility of a fuel leak or damaging the line, fuel rail or fittings
- Easily applies the 30 ft-lb factory-required torque
- No torque adaptors with complicated calculations required
- Use on Cummins® ISB engines 1998 to present
- 1/2" drive, 19 mm

**FLS1222 1/2" Drive Fuel Line Socket**

- Designed to easily torque fuel injector lines correctly, reducing or eliminating the possibility of a fuel leak or damaging the line, fuel rail or fittings
- Easily applies 80 ft-lb factory-required torque
- No torque adaptors with complicated calculations required
- Use on Cummins® ISX engines 2007 to present
- 1/2" drive, 22 mm

**TLEPL50 1/4" Drive TORX® Plus® 5EPL Socket**

- Manufactured from special steel with higher alloy content
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## DIESEL TOOLS



SCFM2538

### Crowfoot Wrench

#### SCFM2538 3/8" Drive Cummins® Wastegate Solenoid

##### Crowfoot Wrench

- Manufactured from steel with a higher alloy content
- Heat treated for optimum strength and durability
- Crowfoot design helps to not damage the solenoid while providing access to it during removal or installation
- Crowfoot design and square drive allow for proper torquing of the solenoid during installation



S6201

### Specialty Service Tools

#### S6201 M20 x 1.5 Rethreader Tap

- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

## DIESEL: FORD®/NAVISTAR®



SRD6

### Belt Tensioning Tools

#### SRD6 Belt Tensioner Release Tool

- 6" long adaptor with 1/2" male square
- Female triple square drive allows more flexibility to work around obstacles by coming in at different angles with a 1/2" breaker bar
- Similar to the Snap-on® 6" torque adaptors but with a male square
- If using with a torque wrench, refer to the Snap-on® SS306G Torque Chart for the formula to obtain the correct applied torque

#### Heavy-Duty Applications:

- For serpentine belt tensioners with a 1/2" square drive opening found on Series 60 Detroit Diesel® and Caterpillar® engines
- Other applications include buses and delivery vans where the doghouse or engine shrouding can get in the way and make the work area very tight

#### Automotive Applications:

- 1/2" serpentine belt tensioners on Dodge®/Chrysler® (2.0 L and 3.0 L engines) Ford®, Lincoln® and Mercury® (2.3 L, 3.0 L, 4.2 L and 4.6 L engines) GM® (2.5 L, 4.7 L, 5.0 L and 5.7 L engines) vehicles



YA9340

#### YA9340 † Serpentine Belt Wrench (Blue-Point®)

- Used to release any serpentine belt tensioner with a 1/2" square drive opening
- Ratcheting action allows better positioning of the tool, creating a greater swing angle than a solid-type serpentine belt wrench
- Reversible ratchet head is only 1" thick so it will fit between the tensioner face and fan blades on S Series 60 Detroit Diesel® and some Caterpillar® engines
- Also ideal for working on buses and delivery vans where the doghouse or engine shrouding restrict access
- Compact overall length keeps handle from coming in contact with radiator hoses, charged air cooler pipes, hydraulic lines or frame rails
- Vinyl grip for comfort
- 13" overall length

### Ford® ICP Sensor Socket

#### S6196KR 3/8" Square Drive 6-Point ICP Sensor Socket for Ford® Vehicles

- Easily removes and installs the ICP Sensor on 2002 and 2003 Ford® 6.0 L diesel truck engines
- Spring retention securely holds the sensor during use
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- 6-point configuration and Flank Drive® wrenching system
- Nickel-chrome finish resists against rust and corrosion
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power



S6196KR



FGPT

### Glow Plug Tool

#### FGPT Glow Plug Harness Tool

- Prevents damage to the harness and connector rail
- Removes and installs glow plug connectors
- Orange color for easy identification in dark engine compartments

**Ford® Fuel Filter Wrench**

**FFW2A 24/36 mm Fuel Filter Socket (Blue-Point®)**

- Double-sided 3/8" drive socket includes both a 24 mm 6-point socket and a 36 mm slotted socket
- Made of machined aluminum and anodized for surface protection



**Diesel Exhaust Fluid (DEF) Tools**

**DEFT300 3 pc Diesel Exhaust Fluid (DEF) Tube Release Forks Set**

- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips
- Includes DEFT322, DEFT325 and DEFT334



**DEFT322 Small DEF Fork**

- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips

**DEFT325 Medium DEF Fork**

- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips



**DEFT334 Large DEF Fork**

- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips

**Diesel Pulse Adaptor**

**MT257B Diesel Pulse Adaptor (Blue-Point®)**

- Tests injector timing or engine RPM on diesel engines equipped with 1/4" or 6 mm external steel fuel injector lines
- Enables use with inductive pick-up timing light to test engine timing
- Not for use on diesels with common rail fuel systems



**Injector Brushes**

**MB5D Bronze Injector Brush (Blue-Point®)**

- Bronze non-abrasive brush cleans carbon from injector tips

**MB73A Injector Brush (Blue-Point®)**

- Combination 5/16" and 13/16" dia. stainless steel wire brush cleans the injector bore and injector tip hole in the cylinder head



**Pulley Puller**

**SP448 Pulley Puller (Blue-Point®)**

- For removing the air pump pulley
- Fits over the pulley flange



**Injector Hold-Down Fastener Tools**

**S6340E 3/8" Drive TORX® T40 Injector Hold-Down Fasteners Bit Socket**

- Manufactured from a special alloy steel and heat treated for optimum strength
- Snap-on® bits are designed with precise fit and tight tolerance to prevent slippage and disengagement
- Perfect length of 3-1/8" is ideal for removing and reassembling Ford® Power Stroke® 6.0 L diesel injectors
- A regular length T40 bit socket is too short and a long T40 bit socket is too long when used with a ratchet or torque wrench and will not fit the application



**S6340E2 T40 TORX® Driver Bit**



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**DIESEL: FORD®/NAVISTAR®**

PSWT10K



S6210



TAP1225



YA1140-1



YA1140-21



YA1140

**Ford® Diesel Turbo Tools****PSWT10K Power Stroke® Diesel Turbo Wrench for Ford**

- 10 mm wrench is ideal for accessing the turbo mounting bolts located between the firewall and the turbo with the exhaust intake in the way
- Designed for use on 2003–later Ford® F-250, F-350, E-250 and E-350 vehicles with 6 L Power Stroke® diesel engines
- Additional applications on Navistar® VT365 engines and some International® 4000 Series of medium-duty trucks
- Wrench has a 0° offset 6-point head
- Designed to remove excessively tight fasteners off the intake when removing turbocharger where a conventional 15° offset wrench will not work
- 5-1/2" long

**S6210 Diesel Turbo Inlet Pipe Socket for Ford® Vehicles**

- Socket designed like the S6210

**S6210A Diesel Turbo Inlet Pipe Socket for Ford® Vehicles**

- Socket designed like the S6210

**TAP1225 Turbo Vane Actuator Puller**

- Specially designed for Ford® 6.4 L turbo diesel to save the technician time
- Compact size fits on or off the truck
- Self-aligning for easy install
- Removes the actuator link rod from the arm on the turbo of 2008–2010 Ford® 6.4 L Power Stroke® diesel engines

**Fuel Injector Sockets**

- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter

**YA1140-1 Long Diesel Injector Crowfoot Socket (Blue-Point®)**

- Ford® 6.7 L Power Stroke® Diesel
- Inline design of the YA1140-1 allows accurate torquing of the injector and clears the plastic housing and fuel return line
- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter

**YA1140-21 Offset Diesel Injector Crowfoot Socket (Blue-Point®)**

- Ford® 6.7 L Power Stroke® Diesel
- Design of the YA1140-21 allows it to rotate under the fuel line while the depth stop keeps it at the specified height to clear the plastic housing
- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter

**YA1140 Diesel Injector Crowfoot Socket Set (Blue-Point®)**

- Includes 2 pc YA1140-1 and YA1140-21
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter



**SWR3**



**S3624**



**A129**



**OFSKIT**



**OFS2432**

**Sensor and Filter Sockets**

**SWR3 Water Sensor Socket**

- Easily removes and replaces a water sensor without damage when changing the fuel filter on 2001–present GM® 6.6 L DuraMax® diesel engines in Chevy®/GMC® pickups and in Chevy®/GMC® medium-duty trucks
- Manufactured from high-strength chemical-resistant glass-filled nylon
- NOTE: Due to possible sensor distortion from previous incorrect removal/installation methods, the sensor may slip in the SWR3 during removal; used to reinstall the sensor when proper hand tightening is used
- 3/8" square drive

**S3624 3/8" Square Drive Metric 24/36 mm Filter Flip Socket**

- One tool will remove/install all three filter caps on Ford® 6.0 L Power Stroke® diesel-powered vehicles such as Super-Duty® Series pickups, Econoline® vans and Excursions
- Used for removal and installation of the oil filter cap, primary and secondary fuel filter caps
- Not for impact use
- Requires optional 3/8" drive extension (FX1 or FXWP1 1-1/2" long)

**24 mm applications:**

- Buick® vehicles: VVT-V6 Rendezvous Ultra, LaCrosse® CSX
- Cadillac® vehicles: VVT-V6 CTS, STS, SRX
- Saturn® vehicles: L-3000 V6

**35/36 mm applications:**

- Audi®/Volkswagen®: VR6 engine
- BMW®: 6-, 8- and 12-cylinder engines
- Mercedes-Benz®: diesel engines
- Mini-Cooper®
- Volvo®: 40 and 50 Series, XC90 with 3.2L 6-cylinder engine
- Nickel-chrome finish

**A129 Diesel Fuel Filter Socket**

- Use for removing and installing fuel filter housings
- 1-1/8" wrench size
- 3/8" drive

**OFSKIT 4 pc Oil/Fuel Filter Socket Set**

- Includes A127 and A106 Oil Filter Sockets, S3624 Filter Flip Socket and A129 Cummins® Diesel Fuel Filter Socket in a storage tray

**Applications:**

- A127 removes and installs 27 mm (1-1/16) oil filters on 2003 and later Mercedes-Benz® 1.8 L 4-cylinder engines
- Aftermarket oil filters with one nut at the top of the canister
- A129 Cummins® Diesel Fuel Filter Socket is used for removing and installing fuel filter housings found on 2002–later Dodge® Ram® trucks with the 24-valve Cummins® diesel engine
- A106 Low Profile Oil Filter Socket
- GM® Ecotec®, 2.0, 2.2 and 2.4 L four-cylinder engines
- Saturn®: L-series (2001), Ion and Vue (2002–later)
- GM®: Cavalier, Sunfire®, Grand AM, Sonoma, S10, Alero (2002–later)
- Malibu®: 2002–2006
- Pontiac®: G6 and Solstice® (2006)
- Chevrolet®: HHR, Cobalt®, Cobalt® SS (2006)
- Saab®: Some general applications
- S3624 Filter Flip Socket removes and installs all three filter caps on Ford® 6.0L Power Stroke® diesel-powered vehicles such as Super-Duty® Series pickups, Econoline® vans and Excursions
- Used for removal and installation of the oil filter cap plus primary and secondary fuel filter caps

**Additional 24 mm applications:**

- Buick®: VVT-V6 Rendezvous Ultra, LaCrosse® CSX
- Cadillac®: VVT-V6 CTS, STS, SRX
- Saturn®: L-3000 V6

**Additional 35/36 mm applications:**

- Audi®/Volkswagen®: VR6 engine
- BMW®: 6, 8 and 12 cylinder engines
- Mercedes-Benz®: diesel engines
- Mini-Cooper®
- Volvo®: 40 and 50 series, XC90 with 3.2L 6-cylinder engine

**OFS2432 24/32 mm Oil Filter Housing Flip Socket**

- Used for Audi®, Volkswagen®, Porsche®, Chrysler®, Dodge®, Jeep®, RAM®, Lamborghini® and Mercedes-Benz® vehicles
- Removal and installation of the oil filter housing on 2.0L I4 diesel engine, 3.0L V6, 3.6L V6, 4.0L V8 turbo, 4.2L V8, 5.2L V8, 5.5L V8 turbo and 6.3L V9 engines
- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability



• Do not use chrome or industrial finish hand tools with impact drivers  
 • Read safety precautions on pages W1 to W4

**DIESEL: AUTOMOTIVE DIESEL**

ICP1610



IPK1220



IPK1400



IPK1170



IPK1330



IPK1630



IPK1640

**Injector Pullers****ICP1610 Duramax® LB7 Injector Cup Puller**

- Designed to remove and help avoid damage to injector cup sleeves
- A must-have tool when re-sealing the sleeves, allowing the technician to work more efficiently
- Heat-treated alloy steel for long life

**IPK1170 Injector Puller Kit**

- Used for GM® LB7 Duramax® engines
- Pulls injector straight
- Pulls far enough to completely remove a stuck injector
- Saves time by reducing the likelihood of loosening the sleeves (up to 1/2 hour per sleeve)
- Removes sleeve from the injector without damage

**IPK1220 Injector Puller Kit**

- Removes diesel injectors on VW® and Audi® vehicles from 2000–present
- Correct tools all in one kit—no searching for shop tools
- Kit contains (3) adaptors with 2 lb slide weight on a 10" slide shaft
- Kit includes the newest style adaptor to keep this kit current for the next ten-plus years

**IPK1330 Injector Puller Kit**

- Used to remove diesel injectors from GM® vehicles produced from 2004–2010 with an LLY, LBZ or LMM Duramax® engine
- Pulls injector straight out without rocking
- Pulls far enough to completely remove a stuck injector
- Saves time and reduces the likelihood of damaging the injector or head

**IPK1400 Injector Puller Kit**

- Removes fuel injectors from GM® vehicles produced from 2009–current with SIDI engines
- Works on many other makes and models of motor vehicles
- Designed to pull the injector straight out reducing the possibility of damaging the injector or head
- Pulls injector straight out without rocking
- Sturdy enough so it won't slip off
- Saves time and reduces the likelihood of damaging the head or injector

**IPK1630 6.7 L Ford® Power Stroke Injector Puller**

- Factory tools rock the injector, binding it to the head and possibly damaging injector; the IPK1630 pulls the injector straight out without rocking and damaging the injector or head
- Unique cantilever I-beam design allows easy assembly on the motor and provides a solid platform for pulling the most stubborn injectors
- Lifts about 3/4" to completely remove a stuck injector
- Saves time by reducing the likelihood of damaging the head or injector
- Made from heat-treated alloy steel for rigidity and durability

**IPK1640 GM® LML Duramax® Injector Puller**

- A factory tool will rock the injector, binding it into the head and may damage the injector. The IPK1640 will pull the injector straight out without rocking, reducing the possibility of damaging the injector or head
- Custom I-beam bridge design allows easy access to hard to reach injectors and a solid pulling bridge to pull out the most stubborn injectors
- Lifts about 3/4" to completely remove a stuck injector
- Saves time by reducing the likelihood of damaging the head or injector
- Made from heat-treated alloy steel for rigidity and durability



**Diesel Injector Puller**

**IPK1760 Sprinter® Van Diesel Injector Puller Kit**

- Removes stuck injectors in minutes instead of hours
- Will not damage the valve cover
- Injector can most likely be reused as a core
- Includes tools to remove the top of the injector, clean the injector seat and a thread chaser for the clamp hole



**IPK1760**

**Ford® Diesel Turbo Tools**

**TVA1650 Turbo Vane Actuator Installer for Ford® Vehicles**

- Simply rotate the arm up, slip the self-centering installer over the arm, and with two wrenches the stud is pushed into the arm in a matter of seconds
- Compact size of tool allows it to be used either on or off the truck
- Single-purpose design saves time and allows the user to work more efficiently while reducing the potential to damage parts during installation
- Fine thread actuator reduces the torque required to loosen the press fit



**TVA1650**

**Injector Pullers**

**IPK1720 Cummins® 5.9 L and 6.7 L Injector Puller**

- For use on Dodge® Cummins® 5.9–6.7 L diesel engines equipped with the high-pressure common rail fuel system
- Designed to slip the puller cup in the groove on the injector and lever it out against the head of the mid-cover center bolts after the wires and retaining bolts have been removed
- Height adjustable for 5.9 L and 6.7 L HPCR engines
- No need to bolt the tool down, moves quickly from injector to injector pulling them straight out, saving time and reducing the likelihood of damaging the head or injector



**IPK1720**

**Metric Injector Sockets**

**S6128 Metric Injector Socket**

- 6-point, 30 mm, 2-1/16" bolt clearance
- 7/16" opening depth, 2-11/16" long
- 7/8" external hex on the drive end



**S6128**

**S6104B Metric Injector Socket**

- For VW® and Mercedes® diesel engines
- 12-point, 27 mm
- Clearance bored to fit over the fuel injector
- 1/2" drive; 3-1/4" long



**S6104B**

**Flywheel Lock (Blue-Point®)**

**YA6925 Flywheel Lock for GM® Duramax® 6.6 Liter Engines (Blue-Point®)**

- For 2001–later Duramax® 6.6 L diesel truck engines
- Saves time by not removing the starter motor
- Holds the engine in place for high-torque requirements
- Handle is visible to remind the technician that the engine is locked



**YA6925**

**Turbo Vane Socket**

**TVS1240 Turbo Vane Socket (Blue-Point®)**

- Split socket is made from alloy steel and designed with additional strength
- Correct geometry to reduce the possibility of damaging the sensor
- Fits the confined location between the cold and hot sides of the turbo



**TVS1240**



• Do not use chrome or industrial finish hand tools with impact drivers  
• Read safety precautions on pages W1 to W4

## HEAVY-DUTY TRUCK SERVICE TOOLS



S6160



S6194



S6190A



S6260



SHR20



S6100



S6197



S6199

## Hand Sockets

**S6160 1/2" Drive 12-Point Metric 12 mm Extra-Long****Head Bolt Socket**

- Use on 1986–later Nissan® engines with 12 mm head bolts
- 8" length reaches past the cam and rocker assembly to service head bolts
- Thin-profile socket and shank will reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford®/Mercury® cars such as Mustang®, Crown Victoria®, Lincoln®, Ford® Explorer®, Ranger® and F-150/F-250 trucks

**S6260 1/2" Drive 12-Point SAE 1/2" Heavy-Duty Spicer® Drive Impact Socket**

- For removal of heavy-duty Spicer® drive shaft bolts that have 1/2" fasteners found on Kenworth® and Peterbilt® trucks, and many other heavy-duty applications
- 8" long

**S6194 1/2" Drive 12-Point Metric 12 mm Head Bolt Socket**

- Used on Toyota® and Nissan® cars and trucks, and Honda® cars with 12 mm head bolts
- 4-1/8" length reaches past the cam and rocker assembly to service the head bolts
- Thin-profile socket and shank reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford® Explorer®, Ranger® and F-150/F-250 trucks

**S6190A IPR Sensor Socket for Ford® Vehicles**

- Used on 1994–later Ford® 6.0 L diesel trucks and International® CT365, 530E and 466F
- Similar to Rotunda® part number 303-1112

**SHR20 Oil Galley Drain Plug Socket**

- For the removal and installation of the oil galley drain plug on Caterpillar® 6 cylinder engines
- Galley plugs may leak and need to be removed so a new O-ring can be installed
- Low-profile design helps get into tight applications
- Special alloy steel provides corrosion resistance
- 1/2" drive, 5/8" Hex socket, 6-point, 1-1/4" long

**S6100 3/8" Drive 3-Lobe Hand Wheel Socket**

- Designed to aid in the removal of rusted and corroded hand wheels without breaking them
- Manufactured from special steel with a higher alloy content
- Precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

## Impact Sockets

**S6197 1/2" Drive 12-Point SAE 1/2" Heavy-Duty Driveline****Impact Socket**

- Used on Kenworth® and Peterbilt® heavy-duty drivelines with 1/2" fasteners and many other heavy-duty 1/2" applications
- Socket will clear the weld yoke, when removing the cap screws holding the wing bushings to the end yoke
- 4-1/8" long

**S6199 3/4" Drive U-Bolt Impact Socket**

- Used on semi trucks using 5/8" dia. U-bolts for springs and other suspension components
- Up to 2" longer than a standard deep socket to easily accommodate the excess thread length—saves time compared to cutting off excess thread to use a standard deep socket
- 1-1/8" wrench size, six-point, 3/4" drive, 5" long

## Impact Sockets

### DW402C 3/4" Drive 6-Point SAE 1-1/4" Dayton Lug Nut

#### Impact Socket

- For use with socket retainers

### S6216 3/4" Drive 12-Point Metric 16 mm Detroit Diesel®

#### Engines Head Bolt Impact Socket

- For head bolts on Detroit Diesel® 50 and 60 Series engines
- Tight clearances between some head bolts and the cylinder head casting require a thin walled socket—these engines are found in truck, bus, motor home, marine and heavy-equipment
- Increased socket height allows for clearance between the drive tool (ratchet, breaker bar or torque wrench) and installed valve train components, allowing technicians access to head bolts from either side of the engine
- 4" long

### S6217 3/4" Drive Head Bolt Impact Socket

- For head bolts on heavy-duty trucks and buses with MBE900 Mercedes-Benz® engine
- Used on certain Detroit Diesel® head bolts with the MBE900 Mercedes-Benz® engine where clearance requires a thin-walled socket
- Socket height helps when using a torque wrench due to the length of the torque wrench handle for clearance
- 3/4" drive, 12-point, 17 mm, 4-3/4" long

### S6218 1/2" Drive Metric 18 mm Double Hex Socket

- Used in conjunction with a 1/2" drive impact gun to remove driveshaft bolts on Kenworth® semi-trucks
- 1/2" drive, 12-point, 18 mm, 6" long socket
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

### S6230 1/2" Drive 6-Point SAE 15/16" Impact Socket

- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Forged from tough alloy steel to increase safety and are heat-treated to a lower hardness to add impact resistance and ductility
- Designed for Autocar® and CCC-style dump trucks and garbage trucks that use the 30/36 spring brake chamber made by MGM® Brakes
- When doing an emergency repair on the road or changing the diaphragm, the chamber needs to be caged before towing or disassembly
- Currently technicians are using a 15/16" wrench—this is time consuming and can be dangerous when servicing a broken down vehicle in traffic
- Length is designed to accommodate the very long threaded spring brake release stud assembly (release tool) in the brake chamber
- Standard deep 15/16" impact sockets are not long enough to fully engage the threads of the spring brake release stud assembly (release tool) in the spring brake chamber

### SIML302 3/4" Drive 6-Point SAE 15/16" Flank Drive®

#### Extra-Deep Impact Socket

- Flank Drive® wrenching configuration
- Special alloy steel combines strength and durability

### SIMML343 Extra-Long Metric Impact Socket

- Used for removing and installing the lug nuts on Case® and International® combines



S6217



DW402C



S6216



S6230



SIML302

## HEAVY-DUTY TRUCK SERVICE TOOLS



IM382CD



IMFDL242



IMSLE242A



IPRD20



S6116



S6126



S6213



S6220



S6221

## Impact Sockets

**IM382CD 3/4" Drive 6-Point Metric 30 mm Flank Drive®****Shallow Impact Socket**

- Applications include Assault Breacher Vehicle; Utility Truck (Tamen: D00347K); Abrams M-1 Tank; Bridge Launcher Carrier; M1A2 Heavy Assault Bridge (hab)/Wolverine, 5420-01-430-4227; Armored Vehicle Launch Bridge (M60A1 and M48A5); Combat Tank, Ft, 120 mm gun (M1A1)
- 3/4" drive, 30 mm

**IMFDL242 3/4" Drive 12-Point SAE 3/4" Flank Drive® Deep Thin Wall****Impact Socket**

- Designed to remove the head bolts on Caterpillar® C12, C15, C16 and 3406E where the front two and back two head bolts are positioned under the valve covers
- Applications on certain Caterpillar® head bolts require a thin walled socket of a certain length
- Additional applications include Detroit Diesel® main bearing cap bolts and 19 mm head bolts on Mercedes-Benz® MBE904/MBE906 EGR engines (2007–later)
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards

**IMSLE242A 3/4" Drive E24 Inverted TORX® Impact Socket**

- Applications include removal and installation of head bolts on MaxxForce® 11 and 13 engines found on D15 International® (2010–current)
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability

**IPRD20 1/2" Drive 12-Point SAE 5/8" Low Profile Swivel Impact Socket**

- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards
- 30° uninterrupted swivel action for greater accessibility in tight quarters, allowing for easier and faster removal of stubborn fasteners
- Used on starter bolts on Cummins®, Caterpillar®, Detroit Diesel® and International® engines where housing is in the way when backing out the fastener using a standard-length impact socket

**S6116 1/2" Drive 6-Point Metric 16 mm Impact Socket**

- Socket is 4" long for easier access to head bolts
- Manufactured from special steel with a high higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

**S6126 1/2" Drive Double Hex 3/4" Driveline Socket**

- Socket is 6" long to easily reach driveshaft bolts
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

**S6213 1/2" Drive 12-Point Metric 13 mm U-Joint Strap Bolt Impact Socket**

- Used for removal of 13 mm U-joint strap bolts found on Volvo®, Mack® and other heavy-duty applications
- 8" long

**S6220 C15 Impact Socket for Caterpillar® Engines**

- Used on Caterpillar® C15 engine rocker stud bolts where the length and broach depth of the socket are critical for the application
- 1/2" drive, 6-point, 11/16", 3-1/4" long

**S6221 Fuel Injector Adaptor Impact Socket**

- Used for the removal and installation of the fuel injector adaptor from the high-pressure rail and for servicing the O-rings on Navistar® DT466/570, HT570 (DT9 and 10) engines
- Similar to the Navistar® OEM tool part number ZTSE4725
- 1/2" drive, 1-1/16" hex

## Impact Sockets

### SIMM182 3/4" Drive 6-Point Metric 18 mm Flank Drive® Deep Impact Socket

- Used for removal and installation of the head bolts on VT365 International® engines found in many delivery vehicles

### SIMML180 1/2" Drive 6-Point Metric 18 mm Flank Drive® Extra-Deep Impact Socket

#### Impact Socket

- Applications include the removal and installation of the fuel tank hold down strap on International® 4400 chassis
- The fuel tank must be removed to replace the fuel sending unit
- 5" long to reach through the frame to access the fastener without the need of an extension

### S6224 1/2" Drive 6-Point SAE 3/4" 30/30 Air Brake Chamber Impact Socket

#### Impact Socket

- Extra-long design allows for quick and safe removal of long-threaded brake release stud assemblies
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength

### S6314 Extra-Long Impact Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Flank Drive® grips fastener on the flanks/flats, increasing torque by 15-20%, prevents the fastener from rounding and increases the life of the socket
- 3-1/4" overall length

### S6412 Drive Train Bolt Socket

- Removes drive train bolts on Ford® vehicles, Hino® 268 Box trucks, International® 4200 VT365 box trucks and 2007 Freightliner® M2 trucks

### S6413 1/2" Drive 12-Point 13 mm Heavy-Duty Driveline Socket

- Designed to service heavy-duty diesel truck drivelines
- Heat treated to a low hardness range compared to chrome sockets, so that under heavy, continuous use will withstand the impact blows and wear rather than break
- 1/2" drive, 12-point, 13 mm, 4-1/8" long

### S6624 3/4" Drive 12-Point 24 mm Main Cap Bolt Socket

- For the removal and installation of the main cap bolts on 2007–later Detroit Diesel® DD13 and 15 engines
- Overall length (5-3/4") and square drive (3/4") of this socket are critical due to the torque rating for this application
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Flank Drive® wrenching system grips fastener on the flanks/flats, increasing torque by 15–20%, prevents fastener from rounding and increases the life of the socket

### SIM462TW 3/4" Drive 6-Point 1-7/16" SAE Deep Thin-Wall Impact Socket

#### Impact Socket

- Designed to remove the lug nuts from Caterpillar® Model 793 mining trucks
- Thin-wall design accommodates easy removal of the 72 lug nuts spaced only 6 mm apart on each wheel
- Flank Drive® wrenching system grips the fastener on the flanks/flats, delivering 15–20% more turning power

## Special Application Sockets

### IPSTML8 1/4" Drive 6-Point 8 mm Metric Deep-Flex Impact Socket

- Removes and installs glow plugs
- Designed with a retention O-ring that holds the glow plug in the socket while being installed or removed
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability



SIMM182



SIMML180



S6224



S6314



S6412



S6413



S6624



SIM462TW



IPSTML8



• Read safety precautions on pages W1 to W4

## HEAVY-DUTY TRUCK SERVICE TOOLS



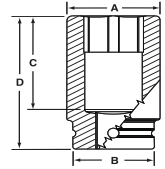
204FIHC



FIHC140





FIHCM8



### Hose Clamp Sockets

Set Contains: 204FIHC

| Drive Size, inches | Stock No. |   | A       | B       | C       | D       |   |
|--------------------|-----------|---|---------|---------|---------|---------|---|
| 3/8                | FIHC140   | 7/16  | 21/32"  | 11/16"  | 2-1/4"  | 2-3/4"  | • |
| 3/8                | FIHC160   | 1/2"  | 3/4"    | 3/4"    | 2-1/4"  | 2-3/4"  | • |
| 3/8                | FIHCM8    | 8 mm  | 12.9 mm | 17.2 mm | 57.1 mm | 69.8 mm | • |
| 3/8                | FIHCM10   | 10 mm   | 15.9 mm | 17.2 mm | 57.1 mm | 69.8 mm | • |

Set shown includes storage tray.

### Torque Adaptor

#### SRD35 Diesel Head Bolt Torque Adaptor



SRD35

- Eliminates the need to remove the truck/van cab from the chassis to access the rear head bolts, saving the technician time and preventing damage to the rear heat shield
- When coupled with an SM18, 18 mm socket, can access all of the head bolts, eliminating the need to change tools or remove the adaptor during the job
- Use of 3/4" drive ratchet/torque wrench transmits the high-torque necessary to loosen and tighten head bolts, with less strain on the technician
- Eliminates the need to remove the evaporator housing, saving two hours of time and the additional cost of refrigerant added during air conditioning recharging
- 3/4" square drive, 3-1/2" center-to-center length, 4-7/8" overall length

#### SRDM624 Torque Adaptor



SRDM624

- Services the rear brake caliper mounting bracket assembly on 2007 Ford® F-450/F-550 trucks
- Tool fits between the bracket bolt and frame to allow the use of a torque wrench to properly torque the bracket bolts
- 1/2" square drive, 12-point, 24 mm, 6" center-to-center length, 7-7/32" long

### Slack Adjusters

#### BSA916 ‡ Slack Adjuster Wrench



BSA916

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Bendix® automatic slack adjusters
- Used to turn the manual adjuster hex
- Extra-deep 9/16" hex allows reach to recessed adjusters
- 14-1/2" overall length helps to overcome the anti-reverse mechanism
- Turn over to reverse
- Includes a protective vinyl boot

#### HSA716 ‡ Slack Adjuster Wrench



HSA716

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Haldex® automatic slack adjusters
- Used to turn the manual adjuster hex
- Extra-deep 7/16" hex allows reach to recessed adjusters
- 14-5/8" overall length helps to overcome the anti-reverse mechanism
- Turn over to reverse
- Protective vinyl boot helps to keep contaminants out of the ratchet mechanism for extended tool life

## Valve Adjusters

### S6205 Valve Adjuster Socket

- See-through window in the 14 mm socket allows the technician to see the position of the 5 mm hex blade
- Faster valve adjustment time
- Sized for low clearance
- Made from heat-treated steel
- Soft grip handle
- Applications include 2002-later Mercedes-Benz® 900 series diesel engines and 2002-later trucks and buses

### S6206 Valve Adjuster Socket

- See-through window in the 17 mm socket allows the technician to see the position of the 6 mm hex blade
- Faster valve adjustment time
- Sized for low clearance
- Made from heat-treated steel
- Soft grip handle
- Applications include 2002-later Mercedes-Benz® 4000 series diesel engines and 2002-later trucks and buses

### VAT930 Diesel Valve Adjustment Tool 15 mm/7 mm

- Two-in-one tool features a window in the socket allowing the technician to see the position of the nut driver holding the adjustment screw as the jam nut is tightened

- Unique handle pivots from one side to the other so the window is always visible
- Made from heat-treated 4140 steel, the tool is strong enough to handle the high breaking torque required after long service intervals
- Multi-functional design frees up one hand for feeler gauge operation

### VAT940 Diesel Valve Adjustment Tool 15 mm/Flat

- Two-in-one tool features a window in the socket allowing the technician to see the position of the screwdriver blade holding the adjustment screw as it is tightened
- Unique handle pivots from one side to the other so the window is always visible
- Made from heat-treated 4140 steel, the tool is strong enough to handle the high breaking torque required after long service intervals
- Multi-functional tool design frees up one hand for feeler gauge operation

### YA8880-3 Wire Handle with Grip

- Handle with slip cover—clips into the tool and pivots from one side to the other so the socket “window” is always visible



## MOTORCYCLE SERVICE TOOLS

## Special Application

### S9704RHS 3/8" Drive 6-Point SAE

### 13/16" Flank Drive® Low-Profile Spark Plug Socket

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally align spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis
- Side through hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold-formed for extended tool life
- Knurled surface for finger tightening and removal

### S9724RHS 3/8" Drive 6-Point SAE

### 5/8" Flank Drive® Low-Profile Spark Plug Socket

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life



S9704RHS



S9724RHS



- Do not use “cheater bars” on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

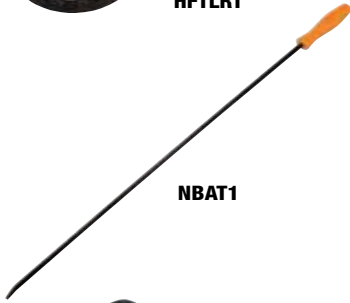
# MOTORCYCLE SERVICE TOOLS



HD6529



HFTLRT



NBAT1



KAC1224TCA



EEPV503



YA173B



MT125A



SGSR104AR

## Adjusting Tools

### HD6529 ‡ Ratcheting Hex Wrench (Blue-Point®)

- Reversible ratchet lever is conveniently located for one-hand operation
- 3/16" hex bit is easily replaced if damaged
- Low-profile design for extra clearance between the frame and engine
- Comfortable rubber grip will not scratch chrome
- 9-3/4" overall length for additional reach
- 1/4" hex drive, 3/16" hex bit for Harley-Davidson® Evolution® motor rocker box cover bolts

### HFTLRT Fuel Tank Lock Ring Tool Harley-Davidson®

- Allows access to the fuel filter and fuel pump as the lock ring is connected to the pump
- Made of durable ABS plastic (competitive products are metal and can scratch the painted surface of the motorcycle)

### NBAT1 ‡ Neck Bearing Adjustment Tool

- For neck bearing adjustment on Harley-Davidson® motorcycles
- Easily maneuvers between the triple clamp and frame
- Fits into the star adjustment nut, allowing technician to adjust the neck bearing play
- Tapered end allows easy access to the neck bearing adjusting star
- Screwdriver-style handle offers a comfortable grip
- 18-1/2" overall length
- Neck bearing adjustment is usually checked at the following service intervals: 1,000, 5,000, 15,000 and 25,000 miles or annually

## Fuel Tank Cover

### KAC1224TCA Motorcycle Gas Tank Cover

- Fits Harley-Davidson® Dyna®, Softail® and Touring models
- Fits various models of Yamaha®, Victory®, Triumph® and Kawasaki® motorcycles, plus many more
- Non-marring cover uses a non-abrasive inner liner that will not slide off

## Motorcycle Service Equipment

### EEPV503 ‡ Motorcycle Compression Gauge Set

- Tests motorcycles and recreational vehicles with hard-to-access spark plug ports
- Gauge assembly includes a 2-3/4" dia. gauge and 18" flexible hose with a quick coupler
- Includes EEPV5G10L, EEPV5G12L and EEPV5G14L
- Technical Support: 1-855-779-8880

## General Service Tools

### CPT110A 3/8" Drive 6-Point Metric 17 mm VW® Transmission Drain Plug Socket

- For use on VW® transmission drain plugs
- Additional applications include removing the front wheels on Triumph® Daytona® and America® motorcycles

### YA173B ‡ Clip-On-Style Angled Air Chuck (Blue-Point®)

- 1/4"-18 female NPT
- Spring-loaded, trigger-operated valve stem clip
- Maximum operating pressure is 200 PSI
- For use with air lines only—do not use on inflators

### MT125A Self-Powered Timing Light (Blue-Point®)

- Self-powered timing light features a single 6' inductive pick-up
- Quick attachment to spark plug wires on motorcycles, marine motors, snowmobiles, jet skis, small engines and other equipment that do not have easy access to a battery power source
- Can be used for automotive applications
- On/Off switch is located within thumb's reach
- Maximum 2,000 RPM

### SGSR104AR \* 4 pc Soft Grip Seal Removal Tool Set Red

- For use on transmissions, heater and vacuum hoses, oil pump drive shaft seals, injectors and fuel rail O-rings, inner tie-rod rack boot and CV boot removal, fork seals, and caliper dust boot assemblies on Harley-Davidson® and other motorcycles, and steering racks and pumps
- SGSR1AR—SGSR4AR (4 pc) in a storage tray

Colors Available



\* R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



## Service Set

### CYCLESET 33 pc Motorcycle Tool Set

- Services most US-manufactured motorcycles from battery service, cable and clutch adjustments, to gas tank and seat removal—covers roadside maintenance and emergency repairs
- Includes (1) gap gauge, (1) 3/8" drive 6-point SAE 13/16" shallow spark plug socket, (1) 1/4" internal drive x 3/8" external drive adaptor, (1) 1/4" drive 4" knurled extension, (6) 1/4" drive 6-point SAE shallow sockets (9/16, 1/4, 5/16, 3/8, 7/16 and 1/2"), (1) 1/4" drive sliding T-handle, (1) 12-point metric 10 mm short combination wrench, (2) 1/4" hex flat tip power bits, (1) 1/4" hex PHILLIPS® #2 power bit, (5) 1/4" hex TORX® power bits (T15, T20, T25, T27 and T30), (2) 5/16" TORX® insert bits (T40 and T45), (5) 1/4" hex SAE power bits (1/8, 5/32, 3/16, 7/32 and 1/4"), (2) 5/16" hex SAE power bits (5/16 and 3/8"), (1) 1/4" drive magnetic bit socket, (1) 3/8" drive 6-point SAE 5/8" standard retention spark plug socket, (1) 8" adjustable wrench and (1) 1/4" drive standard ratchet
- Includes a kit bag



CYCLESET

## AVIATION: SAFETY WIRING



### Wire Twisters

Cushion throat wire twisters feature a polyurethane filler that is bonded into the tool's cutter head to help prevent flying wire bits. A special undercut design helps maintain cutting edges and increases tool durability. Ideal for assembly line applications.



GA311C



PR311



WTR1A



WTS6



WTG10A

### Wire Twister/Cutters

| Stock No. | Description   | Overall Length, inches | Wire Capacity, inches | Wire Retainer |
|-----------|---|------------------------|-----------------------|---------------|
| GA311C    | Wide range of applications  | 10-1/2                 | .060                  | No            |
| PR311     | Similar to GA311C, but not spring loaded. Right-hand only with manual return. | 10-1/2                 | .060                  | No            |
| WT11B     | Small size for use in tight quarters  | 8-1/2                  | .041                  | No            |
| WTR1A     | Reversible Wire Twister/Cutters   | 8-3/4                  | .041                  | No            |
| WTRW6A    | Reversible Wire Twister/Cutters   | 8-3/4                  | .041                  | Yes           |
| WTS6      | Reversible Wire Twister   | 8-3/4                  | .041                  | Yes           |
| WTG8A     | Reversible Wire Twister   | 8                      | .015-.031             | Yes           |
| WTG10A    | Reversible Wire Twister   | 10-1/2                 | .031-.039             | Yes           |
| WTRW9     | Reversible Cushion Throat Wire Twister/Cutter                                 | 11                     | .02-.06               | Yes           |

### Safety Wire

| Stock No.  | Wire Size, inches | Approximate Wire Length, ft. | Container     |
|------------|-------------------|------------------------------|---------------|
| WT105-2004 | .020              | 230                          | 1/4 lb Spool  |
| WT105-3204 | .032              | 90                           | 1/4 lb Spool  |
| WT105-4204 | .041              | 55                           | 1/4 lb Spool  |
| WT105-2016 | .020              | 937                          | 1 lb Canister |
| WT105-2516 | .025              | 599                          | 1 lb Canister |
| WT105-3216 | .032              | 366                          | 1 lb Canister |
| WT105-4116 | .041              | 223                          | 1 lb Canister |
| WT105-5116 | .051              | 144                          | 1 lb Canister |



WT105-2016



WT105-2004



- Read and follow all safety messages and instructions
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AVIATION: SPECIALTY SERVICE TOOLS



AFPW38



AVPW716

### Aircraft Vacuum/Fuel Pump Wrenches

#### AFPW38 Aircraft Fuel Pump Wrench

- Small crowfoot for removal and installation of the fuel primer/injector line on Continental® and Lycoming® engines
- Can be used with a 1/4" drive extension and will easily fit into tight areas

#### AVPW716 Aircraft Vacuum Pump Wrench

- Removes and replaces vacuum pump flange nuts on aviation and experimental aircraft
- Use with any 1/4" drive extension
- Easily fits into tight areas between the pump and nearby accessories
- Cut-down head design adds greater flexibility than a wrench with a bent shank
- Applications include: Cessna®: Skyhawk®, Skylane®, Stationair Piper®: Cub, Warrior®, Archer®, Seminole, Aztec, Navaho, Chieftain Mooney®: M20 series, M200 series, Ovation, Acclaim Beechcraft®: Bonanza®, Duchess, Baron® Cirrus: SR20 and SR22 aircraft



AOC01



AOFW2

### Aircraft Oil Filter Wrenches

#### AOC01 FOD Oil Can Opener

- Testing by Saybolt® laboratory proves this can opener eliminates a cause of FOD, eliminating costly downtime and repairs
- Using a screwdriver to open an oil can may leave metal debris in the oil, causing FOD to turbines
- Can opener is made of reinforced high-quality plastic designed to open a quart can of oil
- Durable, ergonomic, non-slip design is pocket size and can be attached to a key ring

#### AOFW2 † Aviation Oil Filter Wrench

- Oil filter wrench can be used for the installation and removal of oil filters on all standard general aviation aircraft with 1" hex oil filters
- Compact size allows for reach in restricted areas
- 3/8" drive torque wrench
- Refer to the Snap-on® SS306G Torque Chart for formula to obtain the correct applied torque



IMTSX29

#### Fan Bolt Impact Socket

#### IMTSX29 External Mortorq® Impact Socket

- Used on fan bolts found on Rolls Royce® engines used on Airbus® A380 jets



LGSW125



LH100



755121-1



FTA35

#### Torque Adaptor

#### FTA35 3/8" Drive Female/Male Torque Adaptor

- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability
- 3.5" center-to-center

#### TTA35 1/4" Drive Female/Male Torque Adaptor

#### STA35 1/2" Drive Female/Male Torque Adaptor

### Aircraft Landing Gear Tools

#### LGSW125 Landing Gear Socket Wrench

- Used to remove and replace the landing gear harness through-bolt on Embraer® 190 aircraft
- 1-1/4" deep well socket with 1/4" slit cut allows the speed cable to pass through
- 3/8" square drive allows the torque wrench to torque the nut to 80 in-lb
- Flex-head and overall length is 11-1/2"

#### LH100 \* Ratchet Spline Boxsocket Assembly

- Extended-reach 1/2" drive ratchet with a pinned spline socket on one end and a box end spline wrench on the other

#### 755121-1\* Deep Throw Speeder with 1/2" Drive Ratchet Adaptor

- 1/2" driver deep throw speeder with pinned universal and ratchet adaptor

\*LH100 and 755121 are required to be on board a C-130 aircraft before it can leave the ground

## Torque Adaptors, mm (1/4" Drive)

### TRDHM6 1/4" Drive 12-Point Metric 6 mm Torque Adaptor

- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1" center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks

### TRDHM7 1/4" Drive 12-Point Metric 7 mm Torque Adaptor

- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1" center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks

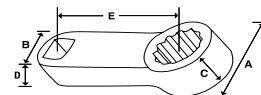
### TRDHM8 1/4" Drive 12-Point Metric 8 mm Torque Adaptor

- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1" center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks

| mm | Stock No. | A   | B    | C   | D   | E    |
|----|-----------|-----|------|-----|-----|------|
| 6  | TRDHM6    | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |
| 7  | TRDHM7    | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |
| 8  | TRDHM8    | 9.5 | 11.9 | 6.6 | 6.6 | 25.4 |

• For applications involving AS350/355 Airbus® helicopters (formerly Eurocopter) known as A-star and Twin-Star helicopters in North America

• Used attached to a torque wrench on a hard-to-reach fastener



TRDHM6



AHCS1

## Hose Clamp Socket

### AHCS1 Aircraft Hose Clamp Socket

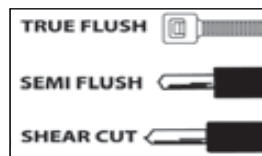
- Use on hose clamps found on Lycoming®, TCM (Continental®) and other engines found on Cessna®, Piper® and Beechcraft® aircraft
- Slotted socket is for removing and installing the three different size thumb knobs found on aircraft hose clamps

- Competitive sockets only work on one size and have a rubber O-ring that can cause an FOD issue
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- 1/4" square drive

**True Flush:** Blades cut stranded wire ends and zip tie ends flat, allowing protruding ends to be trimmed flush

**Semi-Flush:** Ground blades cut slightly pointed wire ends and can be used where an exact flush cut is not required

**Shear Cut:** Ground blades (on standard cutters) are designed for general cutting with less hand pressure and extended blade life



## Cushion Throat Cutters

- Urethane insert in jaws captures clipped material, reducing the likelihood of work environment contamination
- Retention of wire clippings enhances worker safety by preventing projectile material from being scattered throughout the worksite
- Handles are designed for comfort and deliver the leverage needed to tackle the most demanding jobs
- Quality forged steel ensures tools will provide years of service
- Fluorescent urethane formula helps reduce the potential of leaving the tool behind—just shine a UV light on the head of the cutter to activate its illuminating effect

| Stock No. | Description                                      | Dimension A, Handle Type | Dimension B, Jaw Length, inches | Dimension C, Overall Length, inches |
|-----------|--|--------------------------|---------------------------------|-------------------------------------|
| 84CFCTA   | Cushion Throat Diagonal Cutter                   | Bowed                    | 3/8                             | 4-3/4                               |
| 86ACFCT   | Cushion Throat Diagonal Cutter                   | Bowed                    | 3/4                             | 6-5/16                              |
| P8715OCT  | Cushion Throat 5" Oval Cutter—True Flush Cut     | Bowed                    | 17/32                           | 5-3/16                              |
| 786CFCT   | 6" Diagonal Flush-Cut Cutter with Cushion Throat | Bowed                    | 3/4                             | 6-5/18                              |
| 87ACFCT   | 7" VectorEdge Diagonal Cutter                    | Bowed                    | 13/16                           | 7-3/8                               |
| 388ACFCT  | 8" High-Leverage Cushion Throat Diagonal Cutters | Bowed                    | 1-1/16                          | 8-5/16                              |



84CFCTA



86ACFCT



P8715OCT



786CFCT



87ACFCT

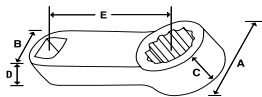


388ACFCT



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
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- Read safety precautions on pages W1 to W4

## AVIATION: SPECIALTY SERVICE TOOLS



### Spline, Low-Profile, inches

- Precision crafted from special alloy steel and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Unique spline wrenching configuration can be used on ordinary 6- and 12-point fasteners
- Ideal for use with torque wrenches
- Will save time and avoid clearance issues when working on propeller assemblies
- Works on a wide variety of Lycoming® and Continental® engines used in Piper®, Cessna® and Mooney® aircraft




FRESL14



FRESL20



FRESL30

|  | Stock No.      | A             | B            | C            | D            | E        |
|---|----------------|---------------|--------------|--------------|--------------|----------|
| 7/16  | <b>FRESL14</b> | 3/4 (19.05)   | 3/4 (19.05)  | 3/16 (4.76)  | 7/16 (11.11) | 2 (50.8) |
| 1/2   | <b>FRESL16</b> | 25/32 (19.84) | 3/4 (19.05)  | 3/16 (4.76)  | 7/16 (11.11) | 2 (50.8) |
| 9/16  | <b>FRESL18</b> | 13/16 (20.64) | 3/4 (19.05)  | 3/16 (4.76)  | 7/16 (11.11) | 2 (50.8) |
| 5/8   | <b>FRESL20</b> | 29/32 (22.8)  | 47/64 (18.8) | 3/16 (4.7)   | 7/16 (10.9)  | 2 (50.8) |
| 11/16   | <b>FRESL22</b> | 1 (25.1)      | 47/64 (18.8) | 3/16 (4.7)   | 7/16 (10.9)  | 2 (50.8) |
| 3/4   | <b>FRESL24</b> | 1-5/64 (50.2) | 3/4 (19.05)  | 7/16 (11.11) | 3/16 (4.76)  | 2 (50.8) |
| 7/8   | <b>FRESL28</b> | 1-1/4 (31.75) | 3/4 (19.05)  | 7/16 (11.11) | 3/16 (4.76)  | 2 (50.8) |
| 15/16   | <b>FRESL30</b> | 1-5/16 (33.9) | 47/64 (18.8) | 3/16 (4.7)   | 7/16 (10.9)  | 2 (50.8) |



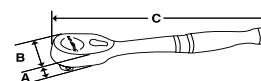
FCY72



TFY72



TY72



### HI-LOK® Fastener Ratchets

| Stock No.    | Square Drive, inches | Gear Teeth | Swing Arc | A    | B     | C     | Repair Kit      | Flex-Joint Repair Kit |
|--------------|----------------------|------------|-----------|------|-------|-------|-----------------|-----------------------|
| <b>FCY72</b> | 3/8                  | 72         | 5         | 7/16 | 15/16 | 4-5/8 | <b>RKRFCY72</b> | —                     |
| <b>TFY72</b> | 1/4                  | 72         | 5         | 7/16 | 15/16 | 6-1/4 | <b>RKRTY72</b>  | <b>RKRT841JT</b>      |
| <b>TY72</b>  | 1/4                  | 72         | 5         | 7/16 | 15/16 | 4-5/8 | <b>RKRTY72</b>  | —                     |

## OIL AND GAS SERVICE TOOLS

### Generator Engine Sockets

#### OG2824 Generator Engine Socket

- Socket is used in the oil and gas industries to adjust valves on large generator engines
- Removes cover bolts and adjusts valves on Waukesha® VHP® Series engines
- Sockets are used with a XO2830 7/8–15/16" standard-length deep 60° offset wrench
- The offset on the wrench protects the user's hand during valve adjustment



- Retaining Ring holds the socket onto the 7/8" part of the XO2830 wrench, as the sockets have a 7/8" male hex
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Flank Drive® wrenching system grips fastener on the flanks/flat, prevents fastener from rounding



OG2824



OG2828

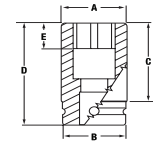
|  |  | External Hex, inches |
|--|---|----------------------|
| 3/4  | <b>OG2824</b>   | 7/8                  |
| 7/8  | <b>OG2828</b>   | 7/8                  |


## Shallow, Single Square Impact Sockets, inches

• This “end effector” socket is used in the manufacturing of subsea and surface wellhead equipment in the oil and gas industries



IM748BC1.5



|  | Stock No.    | Square Drive, inches | A       | B     | C     | D     | E      |
|---|--------------|----------------------|---------|-------|-------|-------|--------|
| 1   | IM632BC1.5   | 3/4                  | 2-1/8   | 1-3/4 | —     | 2-1/4 | 3/4    |
| 1-1/2   | IM748BC1.5   | 1                    | 2-7/8   | 2-3/8 | 1-5/8 | 3-1/2 | 7/8    |
| 1.66  | IM753.1BC1.5 | 1                    | 1-15/16 | 2-3/8 | —     | 3-1/2 | 1-1/16 |
| 1   | IM732BC1.5   | 1                    | 2-1/8   | 2-1/8 | —     | 2-3/4 | 3/4    |



APW10VLV



ATSK3621



GADW8VLV



GADW10VLV

## Specialty Service Tools

### APW10VLV Valve Persuader Wrench

- Refinery wrench used in oil and gas downstream facilities
- Great universal multi-tool for numerous daily applications, including 4 and 6” quick turns to open and close the valves

### ATSK3621 Hex-to-Square Adaptor

- Used with the B2192 Impact Pentagon Socket to remove and tighten special bolts used by electrical utilities on pad-mounted and sub-surface underground facilities
- 7/16” hex, 1/2” square adaptor
- 3” long

### GADW8VLV 8-1/2” Adjustable Valve Persuader Wrench

- Two tools combined into one convenient operator’s tool that can be used wherever valves are adjusted for flow and pressure
- 8-1/2” overall length supplies leverage while being compact enough to be easily carried
- Big-mouth adjustable wrench has large, 1-1/2” capacity
- 3/4” valve wheel wrench opening
- Precision hardened and anti-corrosion treat
- Easy-to-read size measurement scale: SAE on one side, metric on the other

### GADW10VLV 10” Adjustable Valve Persuader Wrench

- Two tools combined into one convenient operator’s tool that can be used wherever valves are adjusted for flow and pressure
- 10” overall length supplies leverage while compact size allows for easy carrying
- Big-mouth adjustable wrench has large, 1-3/4” capacity
- 3/4” valve wheel wrench opening
- Precision hardened and anti-corrosion treated
- Easy-to-read size measurement scale; SAE on one side, metric on the other

# RAILROAD SERVICE TOOLS



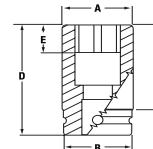
5703747UPA




IM728NT



IM736NT



## Lag Screw Sockets, inches

|  | Stock No.  | A       | B     | C      | D     | E     |
|---|------------|---------|-------|--------|-------|-------|
| 1-1/8 x 7/8   | 5703747UPA | 1-7/8   | 2-1/8 | 1-3/4  | 3-1/2 | 7/8   |
| 1   | IM728NT    | 1-3/4   | 2-1/8 | 31/32  | 2-1/8 | 13/16 |
| 1-1/8   | IM736NT    | 1-13/16 | 2-1/4 | 1-3/32 | 2-1/4 | 3/4   |

### 5703747UPA Rectangular Head Lag Socket

- For use on special rectangular head lag screws
- Rectangular head timber screw spikes are used to secure the rail anchor or rail clip
- The screw spikes are used by all railroads to varying degrees, but mainly the North American freight railroads (BNSF, NS, CSX, UPRR, KCS, CP Rail and CN Rail)
- The opening is 1-1/8 x 7/8” with a 1” square drive and can be used on an impact wrench

### IM728NT Lag Screw Socket

- 1” drive, 1” square

### IM736NT Lag Screw Socket

- 1” drive, 1-1/8” square



- Do not use “cheater bars” on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read and follow all instructions
- Read safety precautions on pages W1 to W4

# RAILROAD SERVICE TOOLS




N8842



N8741

## Track Bolt and Frog Bolt Sockets, inches

|  $\frac{11}{16}$ | Stock No. | Square Drive, inches |
|---|-----------|----------------------|
| 1-11/16   | N8834     | 1                    |
| 1-13/16   | N8835     | 1                    |
| 1-5/8   | N8842     | 1                    |
| 1-7/16  | SIM746NT  | 1                    |
| 2-3/16  | N8741     | 1                    |


### N8741 Frog Bolt Socket

- 1" drive socket is used primarily for Frog bolt applications

## Side Bearing Cage Socket



N8913

|  # | Stock No. | A      | B     | C   | D     | E   |
|---|-----------|--------|-------|-----|-------|-----|
| E20   | N8913     | 1-5/32 | 1-5/8 | 3/4 | 1-3/4 | 1/2 |


### N8913 3/4" Drive E20 TORX® Side Bearing Cage Socket

- 3/4" drive E20 TORX® socket services the break-off portion of the side bearing cage bolt
- Used for installation of shear type E20 bolt during alignment of suspensions on Hendrickson® trailers



SIMD TSA402

## Railroad Torque Socket

|  $\frac{11}{16}$ | Stock No.   | A | B       | C     | D      | E     |
|---|-------------|---|---------|-------|--------|-------|
| 3/4"  | SIMD TSA402 | 2 | 1-21/32 | 3-1/2 | 5-7/16 | 13/16 |

### SIMD TSA402 Railroad Torque Socket

- Allows operators to use angle torque to obtain proper torque on AH traction motor gearcase bolts when applying to new gearcases or replacing broken gearcase bolts

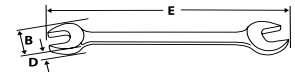



GVO2628TH.20



M4431B

## Railroad Wrenches



|  $\frac{11}{16}$ | Stock No.    | B               | D    | E  |
|---|--------------|-----------------|------|----|
| 13/16-7/8"  | GVO2628TH.20 | 1-11/16-1-13/16 | 7/32 | 10 |

### GVO2628TH.20 Open-End 1-11/16-1-13/16" Railroad Wrench

- Used on railroad auxiliary generator coupler nuts (EMD locomotives)

### M4431B Car Yard Inspector Wrench

- Tightens air brake external nuts and cover screws
- Incorporates (4) 12-point sockets (3/4", 7/8", 15/16" and 1") plus a 9/16" open wrench all in one tool
- Box end portion of the wrench is 10-3/8" long
- Open end portion of the wrench is 6-1/4" long

# SET BUILDING

AS YOUR CAREER GROWS, SO WILL YOUR TOOL ARSENAL. AND VICE VERSA. REGARDLESS OF WHERE YOU'RE CURRENTLY AT, WE HAVE A SET-BUILDING TOOL PACKAGE THAT CAN HELP YOU REACH THE NEXT LEVEL. STARTING WITH OUR APPRENTICE SET, EACH SUCCESSIVE TOOL SET IS DESIGNED TO BUILD ON THE LAST.

## SETS TO ASSURE THAT YOU'RE ALWAYS SET.

Starting out with a complete Snap-on® tool set shows that you've set your sights on a long-term career. Our Apprentice Set includes everything you'll need for the maintenance basics: a balanced mix of 1/4", 3/8" and 1/2" square drive tools, wrenches, screwdrivers, pliers, punches and chisels. The second tool set includes more than 100 additional tools to tackle more advanced applications. So as your collection grows, your skillset will grow, too.

**US APPRENTICE SET**



9100GSBO

**US Apprentice Set**

| Stock No.   | Description   | Page |
|-------------|---|------|
| 114ATMP     | 14 pc 1/4" Drive 6-point SAE Shallow General Service Socket Set | 154  |
| 206EAU      | 6 pc 3/8" Drive Adaptor/Extension Set                           | 173  |
| 211FSY      | 11 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Socket Set    | 177  |
| 211SFSY     | 11 pc 3/8" Drive 6-Point SAE Flank Drive® Deep Socket Set       | 180  |
| 317MSPC     | 17 pc 1/2" Drive 6-Point SAE General Service Socket Set         | 247  |
| 91ACP       | Adjustable Joint Interlocking Channel Pliers (9-1/4")           | 390  |
| AW1015DHK   | 15 pc SAE L-Shaped Hex Wrench Set                               | 319  |
| BP16B       | 16 oz Ball Peen Hickory Handle Hammer (Blue-Point®)             | 417  |
| CSA8C       | Rigid Carbon Scraper  | 430  |
| ENC09602004 | Veratti® M50  | —    |
| F80         | 3/8" Drive Dual 80° Technology Standard Handle Ratchet          | 166  |

| Stock No.  | Description  | Page |
|------------|--|------|
| GA295      | 2-1/4" Round Mirror with 14" Shaft (Blue-Point®)               | 804  |
| HBPT16     | 16 oz Plastic Tip Hammer                                       | 416  |
| HSG319     | Bi-Mold Soft Grip Handle Hacksaw                               | 420  |
| MAGST2D016 | 2D Cell LED Maglite Flashlight                                 | —    |
| OEX709B    | 9 pc 12-Point SAE Flank Drive® Standard Combination Wrench Set | 290  |
| PL307ACF   | 3 pc Pliers Set  | 390  |
| PPC710BK   | 11 pc Punch and Chisel Set                                     | 411  |
| PRH57A ‡   | Convertible Retaining Ring Pliers (Blue-Point®)                | 399  |
| PT5C       | Telescopic Magnetic Pick-Up Tool (Blue-Point®)                 | 803  |
| PWC6       | Wire Stripper/Cutter (Blue-Point®)                             | 402  |
| SHDX800    | 8 pc Instinct® Hard Grip Combination Screwdriver Set           | 357  |
| TPMA12     | 12' Tape Rule  | 802  |
| HS50       | Quick Cutter Hand Saw  | 420  |

- 9100GSBO Complete Apprentice Set**
- Includes 9100GSO and the KRA2055FPBO Top Chest
- 9100GSO Apprentice Set**
- US Apprentice Set tools only
  - Does not include a top chest

- 9100GSM Metric Plus Apprentice Set**
- 9100GS Set plus, AWM110DK Metric Hex Wrench Set (11 pc), 212FMY Metric 12-Point Socket Set (12 pc) and OEXM710B metric 12-Point Combination Wrench Set (10 pc)
  - Does not include a top chest





KRA4059FPBO

US Set 2

| Stock No. | Description   | Page |
|-----------|---|------|
| 1650      | 16" Prybar  | 487  |
| 110STMY   | 10 pc 1/4" Drive 6-Point SAE Flank Drive® Deep Socket Set                 | 137  |
| 112TMMY   | 12 pc 1/4" Drive 6-Point Metric Flank Drive® Shallow Socket Set           | 135  |
| 2004BSKA  | 4 pc Battery Service Kit  | 722  |
| 212EFTXY  | 12 pc Combination Drive TORX® Bit Standard Socket Set                     | 143  |
| 212FSMY   | 12 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Socket Set           | 177  |
| 212SFSMY  | 12 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Socket Set              | 178  |
| 97ACF     | 9" Needle Nose Pliers   | 390  |
| AC5C      | Hand Scratch Brush (Blue-Point®)  | 670  |
| AWM110DHK | 11 pc Metric L-Shaped Hex Wrench Set                                      | 319  |
| EECT4H    | Circuit Tester  | 615  |
| FADH12B   | 12" Flank Drive® Plus Adjustable Wrench                                   | 322  |
| FB303B ‡  | Wire Gap for Electronic Ignition Systems Gauge                            | 799  |
| FB316B ‡  | Short Blade, Ignition Gauge Set, Double Stamped with SAE and Metric Sizes | 797  |
| FB325A ‡  | Double Stamped with SAE and Metric Sizes                                  | 798  |
| FB361A    | Gapper Gauge (Blue-Point®)  | 799  |

| Stock No.  | Description   | Page |
|------------|---|------|
| FLF80A     | Long Handle Flex Head Ratchet   | 166  |
| FXK11      | 3/8" Drive 11" Knurled Friction Ball Extension                                | 171  |
| GSAF1F     | 1/2" Drive Square Drive Adaptor   | 173  |
| LP10WR     | Curved Jaw with Cutter Locking Pliers   | 397  |
| OEX30B     | 15/16" 12-Point SAE Flank Drive® Standard Combination Wrench                  | 290  |
| OEX32B     | 1" 12-Point SAE Flank Drive® Standard Combination Wrench                      | 290  |
| OEXM710B   | 10 pc 12-Point Metric Flank Drive® Standard Combination Wrench Set            | 289  |
| PK53A      | Single Bevel Putty Knife/Scraper (Blue-Point®)                                | 431  |
| RXFS605B   | 5 pc 6-Point Double End SAE Flank Drive® Flare Nut Wrench Set                 | 304  |
| S9704KA    | 3/8" Drive 6-Point SAE 13/16" Flank Drive® Shallow Spark Plug Socket          | 438  |
| S9706KRA   | 3/8" Drive 6-Point SAE 5/8" Flank Drive® Standard Retention Spark Plug Socket | 437  |
| SGA173BR ‡ | Soft Grip Radiator Hose Pick  | 749  |
| SGASA204CR | 4 pc Instinct® Soft Grip Miniature Pick Set                                   | 383  |
| SGDMRC44B  | Ratcheting Soft Grip Standard Screwdriver                                     | 368  |
| SGT4BR     | 1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver                 | 807  |
| TMXK60     | 1/4" Drive 6" Knurled Extension   | 131  |

**KRA4059FPBO 26" Nine-Drawer Top Chest**

- Lock 'N Roll® system prevents the drawers from drifting open during unit movement
- Drawer pulls are 50% deeper than other brands for better leverage
- Rolled drawer edges for strength and safety
- Teardrop-shaped drawer hems provide safe edges and keep drawers from sagging
- High-security tubular interchangeable locks
- Tough nine-step pre-painting process
- Four Colors: Red (PBO), Gloss Black (PC), Royal Blue (PCM), Electric Orange (PJK)

**9000GS2 Add-On Group 2**

- More than 100 pc
- Does not include a tool storage unit

**9200AGSO US Set 2**

- Includes 9100GSO and 9000GS2
- Does not include tool storage

**9200GSB Complete US Set 2**

- Includes 9100GSO, 9000GS2, plus the KRA4059FPBO top chest



‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

**US SET 3**



**KRA4059FPBO**



**KRA4008FPBO**



**9000GS30**

**US Set 3**

| Stock No. | Description   | Page |
|-----------|---|------|
| 112STMMY  | 12 pc 1/4" Drive 6-Point Metric Flank Drive® Deep Socket Set                    | 136  |
| 207EFAMY  | 7 pc 3/8" Drive Metric Hex Bit Socket Set                                       | 190  |
| 208EFAY   | 8 pc 3/8" Drive SAE Standard Hex Bit Socket Set                                 | 191  |
| 310IMMYA  | 10 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set          | 236  |
| 310SIMMYA | 10 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set             | 238  |
| 311IMYA   | 11 pc 1/2" Drive 6-Point SAE Flank Drive® Shallow Impact Socket Set             | 237  |
| 313TWMYA  | 13 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Socket Set                 | 226  |
| AC58E     | Wire Brush (Blue-Point®)  | 865  |
| GA3000B   | Headphone-Style Ear Protectors (Blue-Point®)                                    | 852  |
| IP80D     | 1/2" Drive Swivel Ball Lock Button Impact Universal Joint                       | 235  |
| JT13B     | Blow Gun (Blue-Point®)  | 594  |
| PT850     | 1/2" Drive Air Impact Wrench  | 546  |
| OEXM6B    | 6 mm 12-Point Metric Flank Drive® Short Combination Wrench                      | 292  |
| OEXM7B    | 7 mm 12-Point Metric Flank Drive® Short Combination Wrench                      | 292  |
| OEXM8B    | 8 mm 12-Point Metric Flank Drive® Short Combination Wrench                      | 292  |
| OEXM9B    | 9 mm 12-Point Metric Flank Drive® Short Combination Wrench                      | 292  |
| QD3R250A  | 1/2" Drive SAE Adjustable Click-Type Fixed Ratchet Torque Wrench (50–250 ft-lb) | 330  |
| RXFMS606B | 6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set                | 304  |
| S8        | 1/2" Drive 2-11/16" Friction Ball Universal Joint                               | 225  |
| SL80A     | 1/2" Drive Dual 80® Technology Long Handle Ratchet                              | 220  |
| SPBS24AO  | 24" Striking Prybar   | 386  |
| SXK3      | 1/2" Drive 3-1/2" Extension   | 224  |
| TF72      | 1/4" Drive Dual 80® Technology Standard Handle Flex-Head Ratchet                | 127  |
| TMXK140   | 1/4" Drive 14" Knurled Extension  | 131  |

**9000GS30 Add-On Group 3**

- More than 100 pc
- Does not include tool storage

**9300GSB0 Complete US Set 3**

- Includes 9200AGS and 9200GS3, plus the KRA4008FPBO Roll Cab and KRA4059FPBO Top Chest

**9300GSO US Set 3**

- Includes 9200AGS and 9000GS3
- Does not include tool storage



KRL756CPBO



KRL751PB0



9000GS40

US Set 4

| Stock No. | Description  | Page |
|-----------|--|------|
| 1250      | 12" Prybar   | 388  |
| 206AFSA   | 6 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Universal Socket Set      | 181  |
| 206FSUMA  | 6 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Flex Socket Set        | 181  |
| 207SFRH   | 7 pc 3/8" Drive 6-Point SAE Flank Drive® Flare Nut Crowfoot Wrench Set     | 308  |
| 210FRHMA  | 10 pc 3/8" Drive 6-Point Metric Flank Drive® Flare Nut Crowfoot Wrench Set | 307  |
| 313TSYA   | 13 pc 1/2" Drive 6-Point SAE Flank Drive® Deep Socket Set                  | 228  |
| 388ACF    | 8" High-Leverage Diagonal Cutter   | 391  |
| 61CF      | 8" Duck Bill Pliers  | 395  |
| AWP160    | Adjustable Joint Tongue and Groove Pliers                                  | 396  |
| BP24B     | 24 oz Ball Peen Hickory Hammer (Blue-Point®)                               | 417  |
| CJ2001P   | Bolt Grip Puller Set   | 459  |
| CSA12CO   | 12-7/8" Rigid Carbon Scraper   | 430  |
| E1020     | 19 pc Extractor Set (Blue-Point®)  | 447  |
| FADH8B    | 8" Flank Drive® Plus Adjustable Wrench                                     | 322  |
| FL80      | 3/8" Drive Dual 80° Technology Long Handle Ratchet                         | 166  |
| FX24A     | 3/8" Drive 24" Friction Ball Extension                                     | 171  |
| FXK4      | 3/8" Drive 4" Knurled Friction Ball Extension                              | 171  |
| FXK8      | 3/8" Drive 8" Knurled Friction Ball Extension                              | 171  |
| HBBD32    | 32 oz Ball Peen Soft Grip Dead Blow Hammer                                 | 415  |
| HBFE32    | 32 oz Dead Blow Soft Grip Handle Hammer                                    | 414  |
| JCW62R‡   | Standard Creeper   | 789  |
| LP7WR     | Curved Jaw with Cutter Locking Pliers                                      | 397  |
| OEX080B   | 1/4" 12-Point SAE Flank Drive® Short Combination Wrench                    | 293  |
| OEX10B    | 5/16" 12-Point SAE Flank Drive® Standard Combination Wrench                | 290  |
| OEX34B    | 1-1/16" 12-Point SAE Flank Drive® Standard Combination Wrench              | 290  |
| OEX36B    | 1-1/8" 12-Point SAE Flank Drive® Standard Combination Wrench               | 290  |
| OEX40B    | 1-1/4" 12-Point SAE Flank Drive® Standard Combination Wrench               | 290  |

| Stock No. | Description   | Page |
|-----------|---|------|
| OEXM200B  | 20 mm 12-Point Metric Flank Drive® Standard Combination Wrench  | 290  |
| OEXM210B  | 21 mm 12-Point Metric Flank Drive® Standard Combination Wrench  | 290  |
| OEXM220B  | 22 mm 12-Point Metric Flank Drive® Standard Combination Wrench  | 290  |
| OEXS709B  | 9 pc 6-Point SAE Flank Drive® Short Combination Wrench Set      | 293  |
| OEXSM710B | 10 pc 12-Point Metric Flank Drive® Short Combination Wrench Set | 292  |
| PPB1012A  | Bronze Tapered Punch  | 413  |
| PPC104A   | Pin Punch   | 411  |
| PPC108A   | 5-3/4" Pin Punch  | 411  |
| PPC204A   | 5-3/4" Starter Punch  | 411  |
| PPC208A   | 6-3/4" Starter Punch  | 411  |
| PPC3A     | Center Punch  | 411  |
| PPC5A     | 6-15/16" Punch/Chisel Holder                                    | 411  |
| SGCP1BR   | Soft Grip Cotter Pin Puller                                     | 694  |
| SGHBF500A | 4 pc Mixed File Set   | 427  |
| SHDX40R   | 4 pc Instinct® Combination Hard Grip Mini-Tip Screwdriver Set   | 357  |
| SN24C     | 1/2" Drive 24" Standard Handle Breaker Bar                      | 222  |
| SPBS18AO  | 18" Striking Prybar   | 386  |
| SRPCR105  | 5 pc Snap Ring Pliers Set                                       | 398  |
| SSM5A     | Flat Tip Screw Aluminum Starter (Blue-Point®)                   | 371  |
| SX2       | 1/2" Drive 2" Extension   | 224  |
| TA3       | 1/4" Drive Square Drive Adaptor                                 | 132  |
| TD2425    | 41 pc SAE Tap and Die Set                                       | 440  |
| TDM117A   | 41 pc Metric Tap and Die Set                                    | 440  |
| TF528D    | Tube Cutting and Double Flaring Set (Blue-Point®)               | 434  |
| TM61A     | 1/4" Drive 6" Flexible Extension                                | 132  |
| TMX1      | 1/4" Drive 1-1/4" Extension                                     | 151  |
| TMXK110   | 1/4" Drive 11" Knurled Extension                                | 151  |
| UTK100    | Retractable Utility Knife                                       | 426  |

9000GS40 Add-on Group 4

- More than 250 pc
- Does not include tool storage

9400GSB0 Complete US Set 4

- Includes 9300GSO, 9000GS40 plus KRL756CPBO Roll Cab and KRL751PB0 Top Chest

9400GSO US Set 4

- Includes 9300GSO and 9000GS40
- Does not include tool storage



‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

**US SET 5**



9000GS50



KRL756CPBO



KRL751PBO

**9000GS50 Add-On Group 5**

- More than 150 pc
- Does not include tool storage

**9500GSBO Complete US Set 5**

- Includes 9400GSO and 9000GS50, plus the KRL756CPBO Roll Cab and KRL751PBO Top Chest

**9500GSO US Set 5**

- Includes 9400GSO and 9000GS50
- Does not include tool storage

US Set 5

| Stock No.  | Description  | Page |
|------------|--|------|
| 650        | 6" Prybar  | 452  |
| 196ACF     | 8" Talon Grip™ Long Nose Pliers with Cutter                            | 394  |
| 212IMFYA   | 12 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Impact Socket Set    | 196  |
| 212SIMFYA  | 12 pc 3/8" Drive 6-Point SAE Flank Drive® Deep Impact Socket Set       | 198  |
| 214IMFMYA  | 14 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set | 196  |
| 214SIMFMYA | 14 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set    | 198  |
| 313TSMYA   | 13 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Socket Set           | 227  |
| 497ACF     | 7" 90° Angle Jaw Needle Nose Pliers                                    | 394  |
| AWP120     | Adjustable Joint Pliers  | 396  |
| BP8B       | 8 oz Ball Peen Hammer Hickory Handle (Blue-Point®)                     | 417  |
| CJ2002     | Gear Puller Set  | 459  |
| F12LB      | 3/8" Drive 11-9/16" Long Handle Breaker Bar                            | 170  |
| FADH10B    | 10" Flank Drive® Plus Adjustable Wrench                                | 322  |
| FBF80A     | Standard Bent Handle Flex Head Ratchet                                 | 166  |
| FK80       | Stubby Handle Ratchet  | 166  |
| HBBT24     | 24 oz Bronze Tip Hammer  | 415  |
| IMM200     | 1/2" Drive 6-Point Metric 20 mm Flank Drive® Shallow Impact Socket     | 236  |
| IMM210     | 1/2" Drive 6-Point Metric 21 mm Flank Drive® Shallow Impact Socket     | 236  |
| IMM220     | 1/2" Drive 6-Point Metric 22 mm Flank Drive® Shallow Impact Socket     | 236  |
| IMM230     | 1/2" Drive 6-Point Metric 23 mm Flank Drive® Shallow Impact Socket     | 236  |
| IMM230     | 1/2" Drive 6-Point Metric 24 mm Flank Drive® Shallow Impact Socket     | 236  |
| IPF800B    | 3/8" Drive Friction Ball Swivel Ball Impact Universal Joint            | 195  |
| KB217B     | Kit Bag  | 411  |
| MG325      | 3/8" Drive Air Impact Wrench   | 546  |
| OEX8B      | 1/4" 12-Point SAE Flank Drive® Standard Combination Wrench             | 290  |
| OEX11B     | 11/32" 12-Point SAE Flank Drive® Standard Combination Wrench           | 290  |
| OEX38B     | 12-Point SAE 1-3/16" Flank Drive® Standard Combination Wrench          | 290  |
| OEX42B     | 12-Point SAE 1-5/16" Flank Drive® Standard Combination Wrench          | 290  |
| OEX260B    | 13/16" 12-Point SAE Flank Drive® Short Combination Wrench              | 293  |
| OEX280B    | 7/8" 12-Point SAE Flank Drive® Short Combination Wrench                | 293  |
| OEX300B    | 15/16" 12-Point SAE Flank Drive® Short Combination Wrench              | 293  |
| OEX320B    | 1" 12-Point SAE Flank Drive® Short Combination Wrench                  | 293  |
| OEXM90B    | 9 mm 12-Point Metric Flank Drive® Standard Combination Wrench          | 289  |
| OEXM230B   | 23 mm 12-Point Metric Flank Drive® Standard Combination Wrench         | 289  |
| OEXM240B   | 24 mm 12-Point Metric Flank Drive® Standard Combination Wrench         | 289  |
| OXI10B     | 5/16" 12-Point SAE Flank Drive® Midget Combination Wrench              | 294  |
| OXI12B     | 3/8" 12-Point SAE Flank Drive® Midget Combination Wrench               | 294  |

| Stock No.  | Description   | Page |
|------------|---|------|
| OXI8B      | 1/4" 12-Point SAE Flank Drive® Midget Combination Wrench                        | 294  |
| OXIM7B     | 7 mm 12-Point Metric Flank Drive® Midget Combination Wrench                     | 293  |
| OXIM8B     | 8 mm 12-Point Metric Flank Drive® Midget Combination Wrench                     | 293  |
| OXIM9B     | 9 mm 12-Point Metric Flank Drive® Midget Combination Wrench                     | 293  |
| OXI706B    | 6 pc 12-Point SAE Flank Drive® Midget Combination Wrench Set                    | 294  |
| OXIM710B   | 10 pc 12-Point Metric Flank Drive® Midget Combination Wrench Set                | 293  |
| PPC110A    | 5-1/4" Pin Punch  | 411  |
| PPC210A    | 7-1/4" Starter Punch  | 411  |
| PPC824B    | 7-1/4" Flat Chisel  | 411  |
| PPC828B    | 8" Flat Chisel  | 411  |
| PT28E      | Pick-Up Tool (Blue-Point®)  | 803  |
| PTR72      | 3/8" Drive Super-Duty Air Ratchet   | 556  |
| PWC14      | Wire Stripper/Cutter/Crimper/Bolt Cutter  | 402  |
| QD2R100A   | 3/8" Drive SAE Adjustable Click-Type Fixed Ratchet Torque Wrench (20–100 ft-lb) | 330  |
| RTD48 ‡    | 48 pc Master Rethreading Tap and Die Set  | 439  |
| S9704KFUA  | 3/8" Drive 6-Point SAE 13/16" Flank Drive® Universal Spark Plug Socket          | 436  |
| S9706KRFUA | 3/8" Drive 6-Point SAE 5/8" Flank Drive® Universal Retention Spark Plug Socket  | 437  |
| SDM400A    | Master SAE Screwdriver Bit Set  | 370  |
| SF80A      | 1/2" Drive Dual 80° Technology Standard Handle Flex-Head Ratchet                | 220  |
| SHDP162R   | PHILLIPS® #2 Instinct® Hard Grip Cabinet Screwdriver                            | 360  |
| SHDP62IRR  | PHILLIPS® #2 Instinct® Hard Grip Standard Screwdriver                           | 360  |
| SHDP63IRR  | PHILLIPS® #3 Instinct® Hard Grip Standard Screwdriver                           | 360  |
| SIMM200    | 1/2" Drive 6-Point Metric 20 mm Flank Drive® Deep Impact Socket                 | 238  |
| SIMM210    | 1/2" Drive 6-Point Metric 21 mm Flank Drive® Deep Impact Socket                 | 238  |
| SIMM220    | 1/2" Drive 6-Point Metric 22 mm Flank Drive® Deep Impact Socket                 | 238  |
| SIMM230    | 1/2" Drive 6-Point Metric 23 mm Flank Drive® Deep Impact Socket                 | 238  |
| SIMM240    | 1/2" Drive 6-Point Metric 24 mm Flank Drive® Deep Impact Socket                 | 238  |
| SPBS12AO   | 12" Striking Prybar   | 386  |
| SSDE42C    | Flat Tip Electronic Thin Blade Screwdriver                                      | 361  |
| SSDE43C    | Flat Tip Electronic Thin Blade Screwdriver                                      | 361  |
| SSDE44C    | Flat Tip Electronic Thin Blade Screwdriver                                      | 361  |
| SSDE46C    | Flat Tip Electronic Thin Blade Screwdriver                                      | 361  |
| SSDE48C    | Flat Tip Electronic Thin Blade Screwdriver                                      | 361  |
| SSDMR1AO   | 4-5/16" Ratcheting Magnetic Stubby Screwdriver                                  | 369  |
| TC123C     | Tubing Cutter (Blue-Point®)   | 433  |
| VS807B     | 7 pc SAE Four-Way Angle Head Open-End Wrench Set                                | 302  |
| XB605A     | 5 pc 12-Point SAE Flank Drive® Standard 10° Offset Box Wrench Set               | 296  |
| XBM605A    | 5 pc 12-Point Metric Flank Drive® Standard 10° Offset Box Wrench Set            | 295  |



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

**US SET 6**



**900GS60**



**KRL791APB0**



**KRL722BPB0**

**9000GS60 Add-On Group 6**

- More than 250 pc
- Does not include tool storage

**9600GSB0 Complete US Set 6**

- Includes 9500GSO and 900GS60, plus tool storage

**9600GSO US Set 6**

- Includes 9500GSO and 900GS60
- Does not include tool storage

US Set 6

| Stock No. | Description   | Page |
|-----------|---|------|
| 2050      | 20" Prybar  | 388  |
| 106ATMXWP | 6 pc 1/4" Drive Wobble Plus Extension Set   | 132  |
| 106TMUSA  | 6 pc 1/4" Drive 6-Point SAE Flank Drive® Shallow Universal Socket Set             | 139  |
| 10SSD     | Flat Tip 90° Offset Screwdriver (Blue-Point®)                                     | 364  |
| 110ETMAY  | 10 pc 1/4" Drive SAE Hex Driver Bit Socket Set                                    | 146  |
| 120SSDP   | PHILLIPS® 90° Offset Screwdriver (Blue-Point®)                                    | 364  |
| 205IPF    | 5 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Impact Swivel Socket Set         | 199  |
| 206AFXWP  | 6 pc 3/8" Drive Wobble Plus Extension Set   | 172  |
| 20SSD     | Flat Tip 90° Offset Screwdriver (Blue-Point®)                                     | 364  |
| 307IPLY   | 7 pc 1/2" Drive 6-Point SAE Flank Drive® Shallow Impact Swivel Socket Set         | 241  |
| A265A     | Socket Rail and Socket Clips  | 108  |
| A271BB    | Socket Clip   | —    |
| AWP45     | Adjustable Joint Pliers   | 396  |
| AWP65     | Adjustable Joint Pliers   | 396  |
| BP12B     | 12 oz Ball Peen Hammer Hickory Handle (Blue-Point®)                               | 417  |
| CHN480    | Interlocking Channel Adjustable Joint Pliers (Blue-Point®)                        | 396  |
| CJ2003A   | Rear Axle Puller Set  | 459  |
| CJ2004    | Puller Set, Interchangeable   | 459  |
| CJ2005    | Master Interchangeable Puller Set   | 460  |
| CM6551A   | 5 pc Miniature Screwdriver Set  | 366  |
| DBTR129 ‡ | 29 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set | 578  |
| FADH6B    | 6" Flank Drive® Plus Adjustable Wrench  | 322  |
| FS12B     | 3/8" Drive 6-Point SAE 3/8" Flank Drive® Shallow Universal Socket                 | 181  |
| FSUM11A   | 3/8" Drive 6-Point Metric 11 mm Flank Drive® Shallow Universal Socket             | 209  |
| FSUM16A   | 3/8" Drive 6-Point Metric 16 mm Flank Drive® Shallow Universal Socket             | 181  |
| FSUM18A   | 3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Universal Socket             | 181  |
| FSUM19A   | 3/8" Drive 6-Point Metric 19 mm Flank Drive® Shallow Universal Socket             | 181  |
| FX18      | 3/8" Drive 18" Friction Ball Extension  | 171  |
| FX36      | 3/8" Drive 36" Friction Ball Extension  | 171  |
| HBFE48    | 48 oz Dead Blow Soft Grip Hammer  | 414  |
| IMTM8A    | 1/4" Drive 6-Point SAE 1/4" Flank Drive® Shallow Impact Socket                    | 148  |
| IMTM10A   | 1/4" Drive 6-Point SAE 5/16" Flank Drive® Shallow Impact Socket                   | 148  |
| IMTM12A   | 1/4" Drive 6-Point SAE 3/8" Flank Drive® Shallow Impact Socket                    | 148  |
| IMTM14A   | 1/4" Drive 6-Point SAE 7/16" Flank Drive® Shallow Impact Socket                   | 148  |
| IMTM16A   | 1/4" Drive 6-Point SAE 1/2" Flank Drive® Shallow Impact Socket                    | 148  |
| IMTM18A   | 1/4" Drive 6-Point SAE 9/16" Flank Drive® Shallow Impact Socket                   | 148  |
| IMTMM5    | 1/4" Drive 6-Point Metric 5 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM5.5  | 1/4" Drive 6-Point Metric 5.5 mm Flank Drive® Shallow Impact Socket               | 148  |
| IMTMM6    | 1/4" Drive 6-Point Metric 6 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM7    | 1/4" Drive 6-Point Metric 7 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM8    | 1/4" Drive 6-Point Metric 8 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM9    | 1/4" Drive 6-Point Metric 9 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM10   | 1/4" Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket                | 148  |
| IMTMM11   | 1/4" Drive 6-Point Metric 11 mm Flank Drive® Shallow Impact Socket                | 148  |
| IMTMM12   | 1/4" Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket                | 148  |

| Stock No. | Description  | Page |
|-----------|--|------|
| IMTMM13   | 1/4" Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket     | 148  |
| IMTMM14   | 1/4" Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket     | 148  |
| IMTMM15   | 1/4" Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket     | 148  |
| LP6LN     | Long Nose Locking Pliers   | 397  |
| NDD900B   | 9 pc SAE Nut Driver Set (3/16–1/2")                                    | 372  |
| OEX44B    | 1-3/8" 12-Point SAE Flank Drive® Standard Combination Wrench           | 290  |
| OEX46B    | 1-7/16" 12-Point SAE Flank Drive® Standard Combination Wrench          | 290  |
| OEX48B    | 1-1/2" 12-Point SAE Flank Drive® Standard Combination Wrench           | 290  |
| P87150    | P-Series Cutting Pliers  | 392  |
| P91355A   | 5-1/2" 45° Bent Needle Nose Pliers                                     | —    |
| P92055A   | 5-1/2" Needle Nose Pliers  | 393  |
| PDR3000A  | 3/8" Capacity Reversible Drill   | 558  |
| PPR708BK  | 8 pc Roll Pin Punch Set  | 413  |
| R810C     | SAE 1/4–5/16" 12-Point SAE Standard 0° Offset Ratcheting Box Wrench    | 283  |
| RB604C    | 4 pc 12-Point SAE Standard 0° Offset Ratcheting Box Wrench Set         | 283  |
| RXS605B   | 5 pc 6-Point SAE Open-End/Flare Nut Wrench Set                         | 304  |
| SGFMN106  | 6 pc Soft Grip Handle Miniature File Set                               | 428  |
| SHDTX315R | TORX® T15 Instinct® Hard Grip Standard Screwdriver                     | 364  |
| SHDTX320R | TORX® T20 Instinct® Hard Grip Standard Screwdriver                     | 364  |
| SSDMR8A0  | 12-15/16" Ratcheting Magnetic Long Screwdriver                         | 369  |
| SX15      | 1/2" Drive 15" Extension   | 224  |
| TD9902B   | 25 pc SAE Tap and Die Set  | 440  |
| TS381     | 1/2" Drive 6-Point SAE 1-3/16" Flank Drive® Deep Socket                | 228  |
| TS401     | 1/2" Drive 6-Point SAE 1-1/4" Flank Drive® Deep Socket                 | 228  |
| TS421     | 1/2" Drive 6-Point SAE 1-5/16" Flank Drive® Deep Socket                | 228  |
| TW381     | 1/2" Drive 6-Point SAE 1-3/16" Flank Drive® Shallow Socket             | 226  |
| TW401     | 1/2" Drive 6-Point SAE 1-1/4" Flank Drive® Shallow Socket              | 226  |
| TW421     | 1/2" Drive 6-Point SAE 1-5/16" Flank Drive® Shallow Socket             | 226  |
| TW441     | 1/2" Drive 6-Point SAE 1-3/8" Flank Drive® Shallow Socket              | 226  |
| TW461     | 1/2" Drive 6-Point SAE 1-7/16" Flank Drive® Shallow Socket             | 226  |
| TW481     | 1/2" Drive 6-Point SAE 1-1/2" Flank Drive® Shallow Socket              | 226  |
| TWM25     | 1/2" Drive 6-Point Metric 25 mm Flank Drive® Shallow Socket            | 226  |
| TWM26     | 1/2" Drive 6-Point Metric 26 mm Flank Drive® Shallow Socket            | 226  |
| TWM27     | 1/2" Drive 6-Point Metric 27 mm Flank Drive® Shallow Socket            | 226  |
| TWM30     | 1/2" Drive 6-Point Metric 30 mm Flank Drive® Shallow Socket            | 226  |
| TWM32     | 1/2" Drive 6-Point Metric 32 mm Flank Drive® Shallow Socket            | 226  |
| VE200A    | Tool Control Board (Blue-Point®)                                       | 295  |
| VS26B     | 13/16" SAE Four-Way Angle Head Open-End Wrench                         | 302  |
| VS28B     | 7/8" SAE Four-Way Angle Head Open-End Wrench                           | 302  |
| VS30B     | 15/16" SAE Four-Way Angle Head Open-End Wrench                         | 302  |
| VS32B     | 1" SAE Four-Way Angle Head Open-End Wrench                             | 302  |
| XO605     | 5 pc 12-Point SAE Flank Drive® Standard 60° Deep Offset Box Wrench Set | 297  |



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 • Read safety precautions on pages W1 to W4

## METRIC SETS A



KRA4059FPBO



9100AGMO

### Metric Sets A

| Stock No.   | Description   | Page |
|-------------|---|------|
| 1650        | 16" Prybar  | 388  |
| 112STMMY    | 12 pc 1/4" Drive 6-Point Metric Flank Drive® Deep Socket Set    | 136  |
| 117TMM      | 17 pc 1/4" Drive 6-Point Metric Starter Socket Set              | 152  |
| 2004BSKA    | 4 pc Battery Service Kit  | 722  |
| 206EAU      | 6 pc 3/8" Drive Adaptor/Extension Set                           | 173  |
| 212EFTXY    | 12 pc Combination Drive TORX® Bit Standard Socket Set           | 143  |
| 212FSMY     | 12 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Socket Set | 177  |
| 212SFSMY    | 12 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Socket Set    | 178  |
| 317AMMPC    | 17 pc 1/2" Drive 6-Point Metric General Service Socket Set      | 247  |
| 91ACP       | Adjustable Joint Interlocking Channel Pliers (9-1/4")           | 396  |
| 97ACF       | 9" Needle Nose Pliers   | 390  |
| AC5C        | Hand Scratch Brush (Blue-Point®)                                | 865  |
| AWM110DHK   | 11 pc Metric L-Shaped Hex Wrench Set                            | 319  |
| BP16B       | 16 oz Ball Peen Hickory Handle Hammer (Blue-Point®)             | 417  |
| CSA8C       | Rigid Carbon Scraper  | 430  |
| EECT4H      | Circuit Tester  | 615  |
| ENC09602004 | Veratti® M50  | —    |
| F80         | 3/8" Drive Dual 80° Technology Standard Handle Ratchet          | 166  |
| FADH12B     | 12" Flank Drive® Plus Adjustable Wrench                         | 322  |
| FB316B ‡    | Feeler Gauge Set (Blue-Point®)                                  | 797  |
| FB360C ‡    | Gap for Electronic Ignition Systems Gauge (Blue-Point®)         | 799  |
| FB361A      | Gapper Gauge (Blue-Point®)                                      | 799  |
| FBM320 ‡    | Feeler Gauge (Blue-Point®)                                      | 798  |
| FLF80A      | 3/8" Drive Dual 80° Technology Long Handle Flex-Head Ratchet    | 166  |

#### 9100AGMO Metric Basic Set A

- Tools only
- Includes a basic selection of ratchets, sockets, wrenches, screwdrivers, pliers and accessories
- Does not include tool storage

| Stock No.  | Description   | Page |
|------------|---|------|
| FXK11      | 3/8" Drive 11" Knurled Friction Ball Extension                                | 171  |
| GA295      | 2-1/4" Round Mirror with 14" Shaft (Blue-Point®)                              | 804  |
| GSAF1F     | 1/2" Drive Square Drive Adaptor   | 173  |
| HBPT16     | 16 oz Plastic Tip Hammer  | 416  |
| HSG319     | Bi-Mold Soft Grip Handle Hacksaw  | 420  |
| LP10WR     | Curved Jaw with Cutter Locking Pliers   | 397  |
| MAGST2D016 | 2D Cell LED Maglite Flashlight  | —    |
| OEXM710B   | 10 pc 12-Point Metric Flank Drive® Standard Combination Wrench Set            | 289  |
| PK53A      | Single Bevel Putty Knife/Scraper (Blue-Point®)                                | 431  |
| PL307ACF   | 3 pc Pliers Set   | 390  |
| PPC710BK   | 11 pc Punch and Chisel Set  | 411  |
| PRH57A ‡   | Convertible Retaining Ring Pliers (Blue-Point®)                               | 399  |
| PT5C       | Telescopic Magnetic Pick-Up Tool (Blue-Point®)                                | 803  |
| PWC6       | Wire Stripper/Cutter (Blue-Point®)  | 402  |
| RXFMS606B  | 6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set              | 304  |
| S9704KA    | 3/8" Drive 6-Point SAE 13/16" Flank Drive® Shallow Spark Plug Socket          | 438  |
| S9706KRA   | 3/8" Drive 6-Point SAE 5/8" Flank Drive® Standard Retention Spark Plug Socket | 437  |
| SGA173BR ‡ | Soft Grip Radiator Hose Pick  | 749  |
| SGASA204CO | 4 pc Instinct® Soft Grip Miniature Pick Set                                   | 383  |
| SGT4BR     | 1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver                 | 807  |
| SHDX800    | 8 pc Instinct® Hard Grip Combination Screwdriver Set                          | 357  |
| SSDMR4BO   | 8-3/4" Ratcheting Standard Screwdriver  | 369  |
| TMXK60     | 1/4" Drive 6" Knurled Extension   | 131  |
| TPMA25EM   | 25' Tape Rule   | 802  |

#### 9100GMB0 Complete Metric Set A

- More than 150 pc
- Includes 9100AGMO, plus KRA4059FPBO Top Chest





**KRA4008FPBO**



**KRA4059FPBO**



**9000GM20**

**Metric Sets B**

| Stock No. | Description  | Page |
|-----------|--|------|
| 1250      | 12" Prybar   | 388  |
| 206FSUMA  | 6 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Flex Socket Set        | 181  |
| 207EFAMY  | 7 pc 3/8" Drive Metric Hex Bit Socket Set                                  | 190  |
| 210FRHMA  | 10 pc 3/8" Drive 6-Point Metric Flank Drive® Flare Nut Crowfoot Wrench Set | 307  |
| 310IMMYA  | 10 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set     | 236  |
| 310SIMMYA | 10 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set        | 238  |
| 313TSMYA  | 13 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Socket Set               | 227  |
| 388ACF    | 8" High-Leverage Diagonal Cutter   | 391  |
| 61CF      | 8" Duck Bill Pliers  | 395  |
| AC58E     | Wire Brush (Blue-Point®)   | 865  |
| AWP160    | Adjustable Joint Tongue and Groove Pliers                                  | 396  |
| BP24B     | 24 oz Ball Peen Hickory Hammer (Blue-Point®)                               | 417  |
| CJ2001P   | Bolt Grip Puller Set   | 459  |
| CSA12CO   | 12-7/16" Rigid Carbon Scraper  | 430  |
| E1020     | 19 pc Extractor Set (Blue-Point®)  | 447  |
| FADH8B    | 8" Flank Drive® Plus Adjustable Wrench                                     | 322  |
| FL80      | 3/8" Drive Dual 80® Technology Long Handle Ratchet                         | 166  |
| FX24A     | 3/8" Drive 24" Friction Ball Extension                                     | 171  |
| FXK4      | 3/8" Drive 4" Knurled Friction Ball Extension                              | 171  |
| FXK8      | 3/8" Drive 8" Knurled Friction Ball Extension                              | 171  |
| GA3000B   | Headphone-Style Ear Protectors (Blue-Point®)                               | 852  |
| HBFE32    | 32 oz Dead Blow Soft Grip Handle Hammer                                    | 414  |
| IP80D     | 1/2" Drive Swivel Ball Lock Button Impact Universal Joint                  | 235  |
| JT13B     | Blow Gun (Blue-Point®)   | 594  |
| LP7WR     | Curved Jaw with Cutter Locking Pliers                                      | 397  |
| PT850     | 1/2" Drive Air Impact Wrench   | 546  |
| OEXM6B    | 6 mm 12-Point Metric Flank Drive® Short Combination Wrench                 | 292  |
| OEXM7B    | 7 mm 12-Point Metric Flank Drive® Short Combination Wrench                 | 292  |

**9000GM20 Add-On Group B**

- More than 200 pc
- Does not include tool storage

**9200GMBO Complete Metric Set B**

- Includes 9100AGMO and 9000GM20, plus KRA4059FPBO Top Chest and KRA4008FPBO Roll Cab

**9200GMO Metric Set B**

- More than 400 pc
- Does not include tool storage

| Stock No. | Description   | Page |
|-----------|---|------|
| OEXM8B    | 8 mm 12-Point Metric Flank Drive® Short Combination Wrench                      | 292  |
| OEXM9B    | 9 mm 12-Point Metric Flank Drive® Short Combination Wrench                      | 292  |
| OEXM200B  | 20 mm 12-Point Metric Flank Drive® Standard Combination Wrench                  | 289  |
| OEXM210B  | 21 mm 12-Point Metric Flank Drive® Standard Combination Wrench                  | 289  |
| OEXM220B  | 22 mm 12-Point Metric Flank Drive® Standard Combination Wrench                  | 289  |
| OEXSM710B | 10 pc 12-Point Metric Flank Drive® Short Combination Wrench Set                 | 292  |
| PPC3A     | Center Punch  | 411  |
| PPC104A   | Pin Punch   | 411  |
| PPC108A   | 5-3/4" Pin Punch  | 411  |
| PPC204A   | 5-3/4" Starter Punch  | 411  |
| PPC208A   | 6-3/4" Starter Punch  | 411  |
| QD3RM30A  | 1/2" Drive Metric Adjustable Click-Type Fixed Ratchet Torque Wrench (6–30 kg•m) | 331  |
| S8        | 1/2" Drive 2-11/16" Friction Ball Universal Joint                               | 225  |
| SGCP1BR   | Soft Grip Cotter Pin Puller   | 694  |
| SGHBF500A | 4 pc Mixed File Set   | 427  |
| SL80A     | 1/2" Drive Dual 80® Technology Long Handle Ratchet                              | 220  |
| SN24C     | 1/2" Drive 24" Standard Handle Breaker Bar                                      | 222  |
| SPBS24AO  | 24" Striking Prybar   | 386  |
| SRPCR105  | 5 pc Snap Ring Pliers Set   | 398  |
| SXK3      | 1/2" Drive 3-1/2" Extension   | 224  |
| TA3       | 1/4" Drive Square Drive Adaptor   | 132  |
| TC28C     | Tubing Cutter (Blue-Point®)   | 433  |
| TDM117A   | 41 pc Metric Tap and Die Set  | 443  |
| TF72      | 1/4" Drive Dual 80® Technology Standard Handle Flex-Head Ratchet                | 127  |
| TFM428    | Metric Bubble Flaring Set (Blue-Point®)   | 434  |
| TMX1      | 1/4" Drive 1-1/4" Extension   | 131  |
| TMXK140   | 1/4" Drive 14" Knurled Extension  | 131  |
| UTK100    | Retractable Utility Knife   | 426  |



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 • Read safety precautions on pages W1 to W4

**METRIC SETS C**



**9000GM30**



**KRL756CPBO**



**KRL751PBO**

**9000GM30 Complete Metric Set C**

- More than 200 pc
- Tools only
- Does not include tool storage

**9300GMB0 Complete Metric Set C**

- Includes 9200GMO and 9000GM30, plus KRL751PBO Top Chest and KRL756APBO Roll Cab

**9300GMO Metric Set C**

- More than 600 pc
- Includes all tools in 9200GMO and 9000GM30
- Does not include tool storage

**Metric Sets C**

| Stock No.  | Description   | Page |
|------------|---|------|
| 650        | 6" Prybar   | 388  |
| 106ATMXWP  | 6 pc 1/4" Drive Wobble Plus Extension Set                                 | 132  |
| 196ACF     | 8" Talon Grip™ Long Nose Pliers with Cutter                               | 394  |
| 206AFXWP   | 6 pc 3/8" Drive Wobble Plus Extension Set                                 | 172  |
| 214IMFMYA  | 14 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set    | 196  |
| 214SIMFMYA | 14 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set       | 198  |
| 497ACF     | 7" 90° Angle Jaw Needle Nose Pliers                                       | 394  |
| AWP120     | Adjustable Joint Pliers   | 396  |
| BP8B       | 8 oz Ball Peen Hammer Hickory Handle (Blue-Point®)                        | 417  |
| CJ2002     | Gear Puller Set   | 459  |
| F12LB      | 3/8" Drive 11-9/16" Long Handle Breaker Bar                               | 170  |
| FADH10B    | 10" Flank Drive® Plus Adjustable Wrench                                   | 322  |
| FBF80A     | Standard Bent Handle Flex Head Ratchet                                    | 166  |
| FK80       | Stubby Handle Ratchet   | 166  |
| HBBD32     | 32 oz Ball Peen Soft Grip Dead Blow Hammer                                | 415  |
| HBBT24     | 24 oz Bronze Tip Hammer   | 415  |
| IMM200     | 1/2" Drive 6-Point Metric 20 mm Flank Drive® Shallow Impact Socket        | 236  |
| IMM210     | 1/2" Drive 6-Point Metric 21 mm Flank Drive® Shallow Impact Socket        | 236  |
| IMM220     | 1/2" Drive 6-Point Metric 22 mm Flank Drive® Shallow Impact Socket        | 236  |
| IMM230     | 1/2" Drive 6-Point Metric 23 mm Flank Drive® Shallow Impact Socket        | 236  |
| IMM240     | 1/2" Drive 6-Point Metric 24 mm Flank Drive® Shallow Impact Socket        | 236  |
| IPF800B    | 3/8" Drive Impact Swivel Universal Joint                                  | 195  |
| IPFM9C     | 3/8" Drive 6-Point Metric 9 mm Flank Drive® Shallow Swivel Impact Socket  | 199  |
| IPFM10C    | 3/8" Drive 6-Point Metric 10 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM12C    | 3/8" Drive 6-Point Metric 12 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM13C    | 3/8" Drive 6-Point Metric 13 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM14C    | 3/8" Drive 6-Point Metric 14 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM15C    | 3/8" Drive 6-Point Metric 15 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM16C    | 3/8" Drive 6-Point Metric 16 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM17C    | 3/8" Drive 6-Point Metric 17 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM18C    | 3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| IPFM19C    | 3/8" Drive 6-Point Metric 19 mm Flank Drive® Shallow Swivel Impact Socket | 199  |
| JCW62R‡    | Standard Creeper  | 789  |
| KB2178     | Kit Bag   | 411  |
| MG325      | 3/8" Drive Air Impact Wrench  | 554  |
| OEXM90B    | 9 mm 12-Point Metric Flank Drive® Standard Combination Wrench             | 289  |
| OEXM230B   | 23 mm 12-Point Metric Flank Drive® Standard Combination Wrench            | 289  |
| OEXM240B   | 24 mm 12-Point Metric Flank Drive® Standard Combination Wrench            | 289  |
| OEXM270B   | 27 mm 12-Point Metric Flank Drive® Standard Combination Wrench            | 289  |
| OEXM300B   | 30 mm 12-Point Metric Flank Drive® Standard Combination Wrench            | 289  |
| OXIM710B   | 10 pc 12-Point Metric Flank Drive® Midget Combination Wrench Set          | 293  |
| OXIM7B     | 7 mm 12-Point Metric Flank Drive® Midget Combination Wrench               | 293  |

| Stock No.  | Description   | Page |
|------------|---|------|
| OXIM8B     | 8 mm 12-Point Metric Flank Drive® Midget Combination Wrench                           | 293  |
| OXIM9B     | 9 mm 12-Point Metric Flank Drive® Midget Combination Wrench                           | 293  |
| PPB1012A   | Bronze Tapered Punch  | 413  |
| PPC110A    | 5-1/4" Pin Punch  | 411  |
| PPC112     | 5-1/4" Pin Punch  | 411  |
| PPC210A    | 7-1/4" Starter Punch  | 411  |
| PPC5A      | 6-15/16" Punch/Chisel Holder  | 411  |
| PPC824B    | 7-1/4" Flat Chisel  | 411  |
| PPC828B    | 8" Flat Chisel  | 411  |
| PT28E      | Pick-Up Tool (Blue-Point®)  | 803  |
| PTR72      | 3/8" Drive Super-Duty Air Ratchet   | 556  |
| PWC14      | Wire Stripper/Cutter/Crimper/Bolt Cutter  | 402  |
| QD2RM1000A | 3/8" Drive Metric Adjustable Click-Type Fixed Ratchet Torque Wrench (200–1,000 kg•cm) | 331  |
| RTD48‡     | 48 pc Master Rethreading Tap and Die Set  | 439  |
| S9704KFUA  | 3/8" Drive 6-Point SAE 13/16" Flank Drive® Universal Spark Plug Socket                | 436  |
| S9706KRFUA | 3/8" Drive 6-Point SAE 5/8" Flank Drive® Universal Retention Spark Plug Socket        | 437  |
| SDM400A    | Master SAE Screwdriver Bit Set  | 373  |
| SF80A      | Standard Handle Flex Head Ratchet   | 220  |
| SGD304BR   | Flat Tip Instinct® Soft Grip Mini-Tip Screwdriver                                     | 356  |
| SHDP162R   | PHILLIPS® #2 Instinct® Hard Grip Cabinet Screwdriver                                  | 357  |
| SHDP62IRR  | PHILLIPS® #2 Instinct® Hard Grip Standard Screwdriver                                 | 360  |
| SHDP63IRR  | PHILLIPS® #3 Instinct® Hard Grip Standard Screwdriver                                 | 360  |
| SIMM200    | 1/2" Drive 6-Point Metric 20 mm Flank Drive® Deep Impact Socket                       | 238  |
| SIMM210    | 1/2" Drive 6-Point Metric 21 mm Flank Drive® Deep Impact Socket                       | 238  |
| SIMM220    | 1/2" Drive 6-Point Metric 22 mm Flank Drive® Deep Impact Socket                       | 238  |
| SIMM230    | 1/2" Drive 6-Point Metric 23 mm Flank Drive® Deep Impact Socket                       | 238  |
| SIMM240    | 1/2" Drive 6-Point Metric 24 mm Flank Drive® Deep Impact Socket                       | 238  |
| SPBS12AO   | 12" Striking Prybar   | 386  |
| SSDE42C    | Flat Tip Electronic Thin Blade Screwdriver  | 361  |
| SSDE44C    | Flat Tip Electronic Thin Blade Screwdriver  | 361  |
| SSDE66C    | Flat Tip Electronic Thin Blade Screwdriver  | 361  |
| SSDE68C    | Flat Tip Electronic Thin Blade Screwdriver  | 361  |
| SSDMR1AO   | 4-5/16" Ratcheting Magnetic Stubby Screwdriver  | 369  |
| SX2        | 1/2" Drive 2" Extension   | 240  |
| TC123C     | Tubing Cutter (Blue-Point®)   | 433  |
| TM61A      | 1/4" Drive 6" Flexible Extension  | 132  |
| TMXK110    | 1/4" Drive 11" Knurled Extension  | 131  |
| TWM25      | 1/2" Drive 6-Point Metric 25 mm Flank Drive® Shallow Socket                           | 226  |
| TWM26      | 1/2" Drive 6-Point Metric 26 mm Flank Drive® Shallow Socket                           | 226  |
| TWM27      | 1/2" Drive 6-Point Metric 27 mm Flank Drive® Shallow Socket                           | 226  |
| TWM30      | 1/2" Drive 6-Point Metric 30 mm Flank Drive® Shallow Socket                           | 226  |
| VSM807B    | 7 pc Metric Four-Way Angle Head Open-End Wrench Set                                   | 302  |
| XBM605A    | 5 pc 12-Point Metric Flank Drive® Standard 10° Offset Box Wrench Set                  | 295  |
| XOM605     | 5 pc 12-Point Metric Flank Drive® Standard 60° Deep Offset Box Wrench Set             | 297  |



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

**METRIC SETS D**



**9000GM40**



**KRL756CPBO**



**KRL751PBO**

**9000GM40 Add-On Group D**  
 • More than 175 pc  
 • Does not include tool storage

**9400GMBO Complete Metric Set D**  
 • Includes 9300GMO and 9000GM40, plus KRL751PBO Top Chest, KRL756CPBO Roll Cab and KRA276D Wall cCabinet

**9400GMO Metric Set D**  
 • More than 800 pc  
 • Includes all tools in 9300GMO and 9000GM40  
 • Does not include tool storage

**Metric Sets D**

| Stock No. | Description   | Page |
|-----------|---|------|
| 2050      | 20" Prybar  | 388  |
| 106ETMAMY | 6 pc 1/4" Drive Metric Standard Hex Bit Socket Set                                | 145  |
| 10SSD     | Flat Tip 90° Offset Screwdriver (Blue-Point®)                                     | 364  |
| 111TMUSMA | 11 pc 1/4" Drive 6-Point Metric Flank Drive® Shallow Universal Socket Set         | 139  |
| 120SSDP   | PHILLIPS® 90° Offset Screwdriver (Blue-Point®)                                    | 364  |
| 20SSD     | Flat Tip 90° Offset Screwdriver (Blue-Point®)                                     | 364  |
| 307IPLMY  | 7 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Impact Swivel Socket Set      | 241  |
| AWP65     | Adjustable Joint Pliers   | 396  |
| BP12B     | 12 oz Ball Peen Hammer Hickory Handle (Blue-Point®)                               | 417  |
| CHN480    | Interlocking Channel Adjustable Joint Pliers (Blue-Point®)                        | 396  |
| CJ2003A   | Rear Axle Puller Set  | 459  |
| CJ2004    | Puller Set, Interchangeable   | 459  |
| CJ2005    | Master Interchangeable Puller Set   | 460  |
| CM6551A   | 5 pc Miniature Screwdriver Set  | 366  |
| DBTR129 ‡ | 29 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set | 578  |
| FADH6B    | 6" Flank Drive® Plus Adjustable Wrench  | 322  |
| FSM61     | 3/8" Drive 6-Point Metric 6 mm Flank Drive® Shallow Socket                        | 177  |
| FSM71     | 3/8" Drive 6-Point Metric 7 mm Flank Drive® Shallow Socket                        | 177  |
| FSUM11A   | 3/8" Drive 6-Point Metric 11 mm Flank Drive® Shallow Universal Socket             | 209  |
| FSUM16A   | 3/8" Drive 6-Point Metric 16 mm Flank Drive® Shallow Universal Socket             | 181  |
| FSUM18A   | 3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Universal Socket             | 181  |
| FSUM19A   | 3/8" Drive 6-Point Metric 19 mm Flank Drive® Shallow Universal Socket             | 181  |
| FX18      | 3/8" Drive 18" Friction Ball Extension  | 171  |
| FX36      | 3/8" Drive 36" Friction Ball Extension  | 171  |
| HBFE48    | 48 oz Dead Blow Soft Grip Hammer  | 414  |
| IMTMM5    | 1/4" Drive 6-Point Metric 5 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM5.5  | 1/4" Drive 6-Point Metric 5.5 mm Flank Drive® Shallow Impact Socket               | 148  |
| IMTMM6    | 1/4" Drive 6-Point Metric 6 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM7    | 1/4" Drive 6-Point Metric 7 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM8    | 1/4" Drive 6-Point Metric 8 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM9    | 1/4" Drive 6-Point Metric 9 mm Flank Drive® Shallow Impact Socket                 | 148  |
| IMTMM10   | 1/4" Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket                | 148  |
| IMTMM11   | 1/4" Drive 6-Point Metric 11 mm Flank Drive® Shallow Impact Socket                | 148  |
| IMTMM12   | 1/4" Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket                | 148  |
| IMTMM13   | 1/4" Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket                | 148  |
| IMTMM14   | 1/4" Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket                | 148  |
| IMTMM15   | 1/4" Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket                | 148  |
| LP5WR     | Curved Jaw with Cutter Locking Pliers   | 397  |
| LP6LN     | Long Nose Locking Pliers  | 397  |

| Stock No.  | Description   | Page |
|------------|---|------|
| NDDM900A   | 9 pc Metric Hard Grip Nut Driver Set (5–13 mm)                    | 372  |
| OEXM250B   | 25 mm 12-Point Metric Flank Drive® Standard Combination Wrench    | 289  |
| OEXM260B   | 26 mm 12-Point Metric Flank Drive® Standard Combination Wrench    | 289  |
| OEXM290B   | 29 mm 12-Point Metric Flank Drive® Standard Combination Wrench    | 289  |
| OEXM320B   | 32 mm 12-Point Metric Flank Drive® Standard Combination Wrench    | 289  |
| P87150A    | P-Series Cutting Pliers   | 392  |
| P91355A    | 5-1/2" 45° Bent Needle Nose Pliers                                | —    |
| PDR3000A   | 3/8" Capacity Reversible Drill                                    | 558  |
| PPR708BK   | 8 pc Roll Pin Punch Set   | 413  |
| RBM1011C   | 10–11 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench | 283  |
| RBM1213C   | 12–13 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench | 283  |
| RBM1415C   | 14–15 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench | 283  |
| RBM1719C   | 17–19 mm 12-Point Metric Standard 0° Offset Ratcheting Box Wrench | 283  |
| RXSM605B   | 5 pc 6-Point Metric Open-End/Flare Nut Wrench Set                 | 303  |
| SFSM6      | 3/8" Drive 6-Point Metric 6 mm Flank Drive® Deep Socket           | 178  |
| SFSM7      | 3/8" Drive 6-Point Metric 7 mm Flank Drive® Deep Socket           | 178  |
| SGFMN106   | 6 pc Soft Grip Handle Miniature File Set                          | 428  |
| SHDXTX315R | TORX® T15 Instinct® Hard Grip Standard Screwdriver                | 364  |
| SHDXTX320R | TORX® T20 Instinct® Hard Grip Standard Screwdriver                | 364  |
| SPBS8A0    | 8" Striking Prybar  | 386  |
| SSDMR8A0   | 12-15/16" Ratcheting Magnetic Long Screwdriver                    | 369  |
| STMM4.5    | 1/4" Drive 6-Point Metric 4.5 mm Deep Socket                      | 136  |
| SX15       | 1/2" Drive 15" Extension  | 224  |
| TDM99117B  | 25 pc Metric Tap and Die Set                                      | 443  |
| TMM4.5     | 1/4" Drive 6-Point Metric 4.5 mm Flank Drive® Shallow Socket      | 135  |
| TSM26      | 1/2" Drive 6-Point Metric 26 mm Flank Drive® Deep Socket          | 227  |
| TSM27      | 1/2" Drive 6-Point Metric 27 mm Flank Drive® Deep Socket          | 227  |
| TSM30      | 1/2" Drive 6-Point Metric 30 mm Flank Drive® Deep Socket          | 227  |
| TSM32      | 1/2" Drive 6-Point Metric 32 mm Flank Drive® Deep Socket          | 227  |
| TWM10A     | 1/2" Drive 6-Point Metric 10 mm Flank Drive® Shallow Socket       | 226  |
| TWM11A     | 1/2" Drive 6-Point Metric 11 mm Flank Drive® Shallow Socket       | 226  |
| TWM28      | 1/2" Drive 6-Point Metric 28 mm Flank Drive® Shallow Socket       | 226  |
| TWM29      | 1/2" Drive 6-Point Metric 29 mm Flank Drive® Shallow Socket       | 226  |
| TWM31      | 1/2" Drive 6-Point Metric 31 mm Flank Drive® Shallow Socket       | 226  |
| TWM32      | 1/2" Drive 6-Point Metric 32 mm Flank Drive® Shallow Socket       | 226  |
| VE200A     | Tool Control Board (Blue-Point®)                                  | 295  |



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

## SB1CORE, SB2COREX SETS



### SB1CORE Set Building Core Set

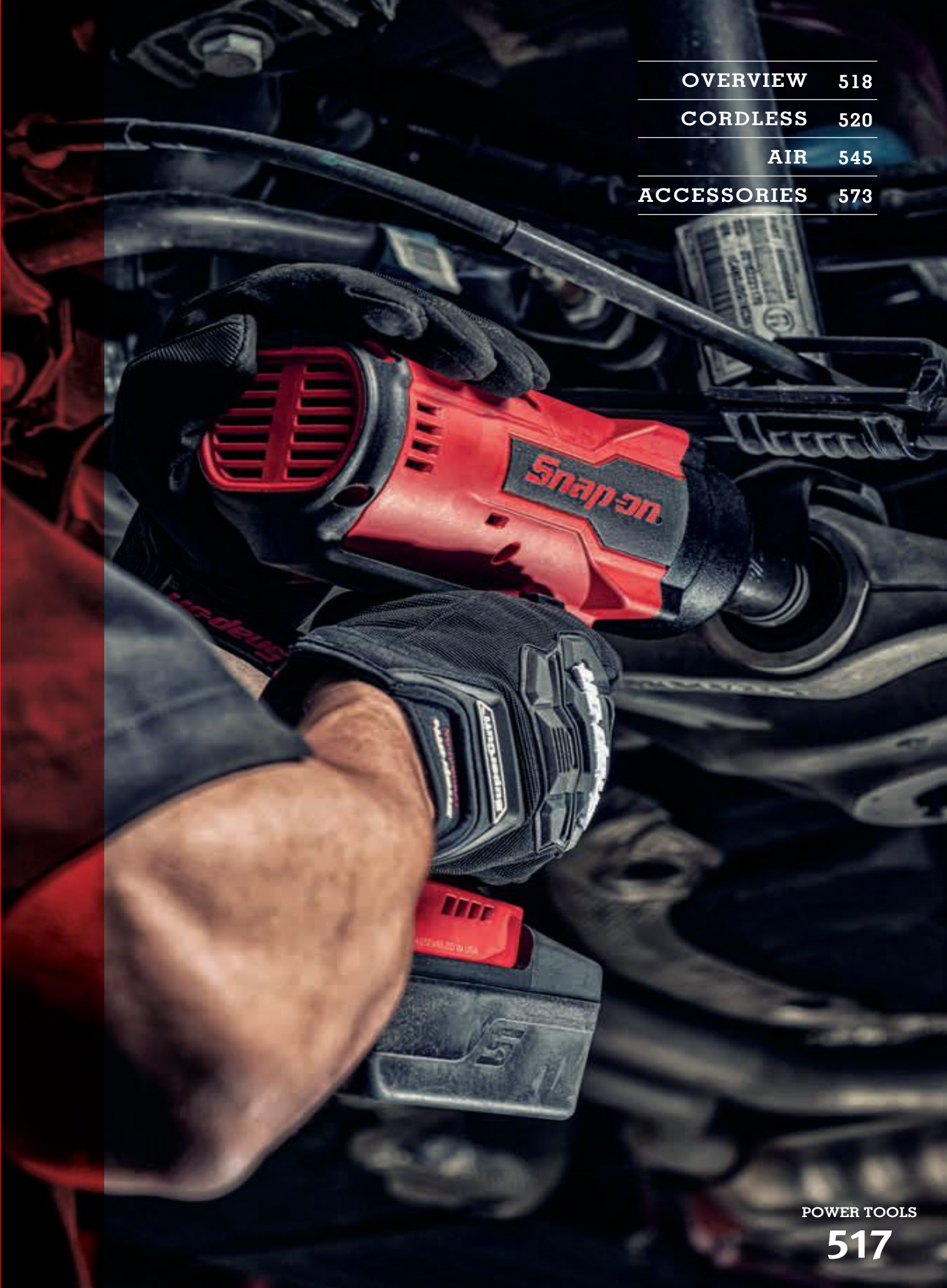
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| 106BTMX    | 6 pc 1/4" Drive Knurled Extension Set  | 131  |
| 124STTMM   | 24 pc 1/4" Drive 6-Point Metric Flank Drive® Shallow/Deep Socket Set                 | 137  |
| 206AFX     | 6 pc 3/8" Drive Knurled Extension Set  | 171  |
| 209EFTXBY  | 9 pc Combination Drive TORX® Bit Heavy-Duty Removal Socket Set                       | 144  |
| 210EFTAMY  | 10 pc Combination Drive Metric Standard Hex Bit Socket Set                           | 190  |
| 224SFFSM   | 24 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow/Deep Combination Socket Set     | 179  |
| AWP120     | Adjustable Joint Pliers  | 396  |
| CSA8CR     | 7-5/8" Rigid Carbon Scraper  | 430  |
| EECT4H     | Circuit Tester   | 615  |
| F80        | 3/8" Drive Dual 80° Technology Standard Handle Ratchet                               | 166  |
| FLF80A     | 3/8" Drive Dual 80° Technology Long Handle Flex-Head Ratchet                         | 166  |
| FU80B      | 3/8" Drive 1-11/16" Friction Ball Universal Joint                                    | 173  |
| GLASS30R   | Safety Glasses   | 854  |
| HBBD24     | 24 oz Ball Peen Dead Blow Soft Grip Handle Hammer                                    | 415  |
| OEXM710B   | 10 pc 12-Point Metric Flank Drive® Standard Combination Wrench Set                   | 289  |
| PHT5       | Telescopic Magnetic Pickup Tool (Blue-Point®)  | —    |
| PL400B     | 4 pc Pliers/Cutters Set  | 390  |
| PWCS7ACF   | 7" Wire Stripper/Cutter/Crimper  | 400  |
| S9706KA    | 3/8" Drive 6-Point SAE 5/8" Flank Drive® Shallow Spark Plug Socket                   | 438  |
| S9714MK    | 3/8" Drive 12-Point Metric 14 mm Flank Drive® Standard Spark Plug Socket             | 438  |
| SGA173BR†  | Soft Grip Radiator Hose Pick   | 749  |
| SGASA204CR | 4 pc Instinct® Soft Grip Miniature Pick Set  | 383  |
| SGDX60BR   | 6 pc Combination Instinct® Soft Grip Screwdriver Set                                 | 356  |
| SOXRMM710  | 10 pc 12-Point Metric Flank Drive® Plus Reversible Ratcheting Combination Wrench Set | 274  |
| SPBS704A   | 4 pc Striking Prybar Set   | 386  |
| T72        | 1/4" Drive Dual 80° Technology Standard Handle Ratchet                               | 127  |
| TF72       | 1/4" Drive Dual 80° Technology Standard Handle Flex-Head Ratchet                     | 127  |
| TMU8B      | 1/4" Drive 1-1/8" Friction Ball Universal Joint                                      | 132  |
| TPMA12     | 12' Tape Rule  | 802  |
| UIM225     | Telescoping Inspection Mirror (Blue-Point®)  | —    |
| UTK150     | Auto-Loading Utility Knife   | 426  |
| YA160A     | Ear Protectors (Blue-Point®)   | 852  |

### SB2COREX Set Building Core Plus Set

| Stock No. | Description  | Page |
|-----------|--|------|
| 1206GS    | 6 pc Combination Drive Square Drive Adaptor Set                  | 132  |
| 208EPIT   | 8 pc 3/8" Drive Impact Driver Set                                | 195  |
| 305ASX    | 5 pc 1/2" Drive Extension Set                                    | 224  |
| 310TWMYA  | 10 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Socket Set  | 226  |
| 312CF     | 11" VectorEdge Heavy-Duty Diagonal Cutter                        | 391  |
| 313TSMYA  | 13 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Socket Set     | 227  |
| 388ACF    | 8" High-Leverage Diagonal Cutter                                 | 391  |
| 911ACF    | 11" Needle Nose Pliers   | 395  |
| 97ACF     | 9" Needle Nose Pliers  | 394  |
| HBBD32    | 32 oz Ball Peen Soft Grip Dead Blow Hammer                       | 415  |
| HBFE24    | Dead Blow 24 oz Soft Grip Hammer                                 | 414  |
| OEXM210B  | 21 mm 12-Point Metric Flank Drive® Standard Combination Wrench   | 289  |
| OEXM220B  | 22 mm 12-Point Metric Flank Drive® Standard Combination Wrench   | 289  |
| OEXM240B  | 24 mm 12-Point Metric Flank Drive® Standard Combination Wrench   | 289  |
| PPC710BK  | 11 pc Punch and Chisel Set                                       | 411  |
| RXFMS606B | 6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set | 304  |
| S80A      | 1/2" Drive Dual 80° Technology Standard Handle Ratchet           | 220  |
| SGHBF500A | 4 pc Mixed File Set  | 427  |
| SLF80A    | 1/2" Drive Dual 80° Technology Long Handle Flex-Head Ratchet     | 220  |
| SRPC107   | 7 pc Retaining Ring Pliers Set                                   | —    |
| TQFR250E  | 1/2" Drive TQ Series Flex-Head Torque Wrench (40–250 ft-lb)      | 332  |

# POWER TOOLS

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# POWER TOOLS THAT OFFER THE INDUSTRY'S MOST POWERFUL ADVANTAGES.

Whether powered by compressed air or lithium batteries, our power tools provide the perfect combination of power, comfort and control. Each is engineered to provide the right torque for the application at hand – not too much and not too little. And they're not only built to last, their multifunctional controls and ergonomic design provide easy, comfortable operation for hours on end.



**POWERFUL TORQUE** Snap-on® power tools provide maximum power-to-weight ratios, giving you the strength to bust fasteners while maintaining overall balanced control.



**CORDLESS, NOT GUTLESS** From our 18 V MonsterLithium to 14.4 V MicroLithium, our cordless batteries deliver the most power and run time in their class.



**COMPACT DESIGN** We've eliminated unnecessary bulk to help you work in restrictive areas and access tight spots that only hand tools once reached.



**BALANCE** A strategically-placed handle provides better overall balance, which in turn delivers greater control and productivity.



**ERGONOMICS** No matter what size, every Snap-on® power tool is engineered for comfort, so you can perform just as long as it will.



**DURABILITY** Drop testing and other stringent quality controls mean you can also take comfort in knowing these rugged tools are built to last.





Snap-on

Snap-on

Snap-on

SuperCuff™

Snap-on

# CORDLESS

SNAP-ON® CORDLESS TOOLS COMBINE SIGNIFICANT POWER WITH UNTETHERED FREEDOM. WHETHER THE APPLICATION CALLS FOR LOW, MEDIUM OR HIGH TORQUE, THESE WORKHORSES PROVIDE THE CONTROL AND COMFORT TO GET THE JOB DONE. AND THE HIGHER-GRADE MATERIALS USED INSIDE AND OUT ASSURE YOU OF THE ULTIMATE DURABILITY AND LONGEVITY.

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## POWERFUL BATTERIES MAKE POWERFUL TOOLS.

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Our 18 V MonsterLithium batteries provide longer run time and greater endurance, thanks to their high-grade lithium cells. They also provide a built-in fuel gauge and a micro-controller that protects the motor from overheating. Our 14.4 V MicroLithium batteries charge in just 70 minutes, greatly reducing downtime.



## Cordless Impacts

| Specifications                                 | CT8850K2              | CT8810BK2             | CT8815BK2             | CT761AK2            | CT725AK2            |
|--|-----------------------|-----------------------|-----------------------|---------------------|---------------------|
| Battery Type                                   | MonsterLithium 5.0 Ah | MonsterLithium 5.0 Ah | MonsterLithium 5.0 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah |
| Battery Voltage                                | 18                    | 18                    | 18                    | 14.4                | 14.4                |
| Square Drive, inches (mm)                      | 1/2 (13)              | 3/8 (10)              | 1/2 (13)              | 1/4" Quick Change   | 1/4 (6)             |
| Torque Output, ft-lb (N•m)                     | 600 (813)             | 230 (311.8)           | 230 (311.8)           | 120 (163)           | 70 (95)             |
| Blows Per Minute, BPM                          | 2,280                 | 3,480                 | 3,480                 | 3,000               | 3,000               |
| Free Speed, RPM                                | 1,900                 | 2,400                 | 2,400                 | 2,500               | 2,500               |
| Height with Battery, inches (mm)               | 10.2 (259)            | 9.5 (241)             | 9.5 (241)             | 7.7 (195)           | 7.7 (195)           |
| Length, inches (mm)                            | 9.6 (244)             | 6.5 (165)             | 6.5 (165)             | 6.3 (160)           | 6.3 (160)           |
| Weight with Battery Pack, lb (kg)              | 7.3 (3)               | 4.5 (2.4)             | 4.5 (2.4)             | 2.5 (1.1)           | 2 (0.9)             |
| Charge Time (minutes)                          | 75                    | 75                    | 75                    | 70                  | 70                  |
| Warranty (battery)                             | 2 Years               | 2 Years               | 2 Years/1,000 Cycles  | 1 Year              | 1 Year              |
| Warranty (tool and charger)                    | 2 Years               | 2 Years               | 2 Years               | 1 Year              | 1 Year              |
| Pinned Anvil Version                           | CT8850P               | CT8810BP              | —                     | —                   | —                   |
| Quick-Change Chuck Version (hex size of chuck) | CT8850QCK2 (7/16")    | CT8810BQCK2 (1/4")    | —                     | CT761AQCK2 (1/4")   | CT725AQCK2 (1/4")   |
| Tool Body Only                                 | CT8850DB              | CT8810BDB             | CT8815BDB             | CT761ADB            | CT725ADB            |

CE

## Brushless Impacts

| Specifications                                 | CT9075K2              | CT9100K2              |
|--|-----------------------|-----------------------|
| Battery Type                                   | MonsterLithium 5.0 Ah | MonsterLithium 5.0 Ah |
| Battery Voltage                                | 18                    | 18                    |
| Square Drive, inches (mm)                      | 1/2 (13)              | 3/4 (19)              |
| Torque Output, in-lb (N•m)                     | 900 (1,220)           | 1,000 (1,355)         |
| Blows Per Minute, BPM                          | 2,100                 | 2,100                 |
| Free Speed, RPM                                | 1,500                 | 1,500                 |
| Height with Battery, inches (mm)               | 9.5 (241)             | 9.5 (241)             |
| Length, inches (mm)                            | 9.6 (244)             | 10.3 (265)            |
| Weight with Battery, lb (kg)                   | 8.7 (3.95)            | 8.9 (4.04)            |
| Charge Time (minutes)                          | 75                    | 75                    |
| Warranty (battery)                             | 2 Years               | 2 Years/1,000 Cycles  |
| Warranty (Tool and Charger)                    | 2 Years               | 2 Years               |
| Pinned Anvil Version                           | —                     | —                     |
| Quick-Change Chuck Version (hex size of chuck) | —                     | —                     |
| Tool Only                                      | CT9075DB              | CT9100DB              |

## Drills/Drivers

| Specifications               | CDR8850HK2            | CDR8815K2             | CDR861K2            | CDRR761K2           | CDRS761K2           |
|------------------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|
| Battery Type                 | MonsterLithium 5.0 Ah | MonsterLithium 5.0 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah |
| Battery Voltage              | 18                    | 18                    | 14.4                | 14.4                | 14.4                |
| Chuck Cap., inches (mm)      | 1/2 (13)              | 1/2 (13)              | 3/8 (10)            | 3/8 (10)            | 3/8 (9.5)           |
| Torque Output, in-lb (N•m)   | 450 (50.9)            | 500 (57)              | 200 (22.6)          | 150 (16.9)          | 65 (7.3)            |
| Clutch Settings              | 22                    | 22                    | 9                   | 9                   | 9                   |
| Gear Box Type                | 2-Speed               | 2-Speed               | 2-Speed             | 2-Speed             | 2-Speed             |
| RPM (low)                    | 0–500                 | 0–520                 | 0–450               | 0–450               | 0–450               |
| RPM (high)                   | 0–1,800               | 0–1,780               | 0–1,550             | 0–1,550             | 0–1,550             |
| Length, inches (mm)          | 10.0 (39.4)           | 8.8 (22.4)            | 7.7 (195.6)         | 13.3 (337.8)        | 13.3 (337.8)        |
| Weight with Battery, lb (kg) | 5.2 (2.3)             | 4.75 (22.4)           | 2.4 (1.1)           | 3.1 (1.4)           | 2.6 (1.2)           |
| Charge Time (minutes)        | 75                    | 75                    | 70                  | 70                  | 70                  |
| Warranty (battery)           | 2 Years               | 2 Years               | 1 Year              | 1 Year              | 1 Year              |
| Warranty (tool and charger)  | 2 Years               | 2 Years               | 1 Year              | 1 Year              | 1 Year              |
| Tool Only                    | CDR8850HDB            | CDR8815DB             | CDR861DB            | CDRR761DB           | CDRS761DB           |

CE

## 18 V Grease Gun

| Specifications                       | CGG8850K2                                      |
|--------------------------------------|--|
| Battery Type                         | MonsterLithium 5.0 Ah                          |
| Battery Voltage                      | 18   |
| Charge Time, minutes                 | 75   |
| Hose Length, inches (mm)             | 36 (914)                                       |
| Pressure Rating, PSI                 | 2,500 High Speed/7,500 Low Speed               |
| Maximum Tube Capacity                | 14-1/2 oz (411 g) Cartridge/16 oz (454 g) Bulk |
| Handle Material                      | Glass-Reinforced Nylon                         |
| Coupler Design                       | 3-Jaw  |
| Height with Grease Tube, inches (mm) | 19 (483)                                       |
| Weight with Battery Pack, lb (kg)    | 7.9 (3.6)                                      |
| Warranty (battery)                   | 2 Years  |
| Warranty (tool)                      | 2 Years  |
| Tool Only                            | CGG8850DB                                      |

K2 = US J2 = Japan U2 = Europe Z2 = Australia

## Reciprocating Saws

| Specifications                    | CTRS8850K1            | CTRS761AK2          |
|-----------------------------------|-----------------------|---------------------|
| Battery Type                      | MonsterLithium 5.0 Ah | MicroLithium 2.5 Ah |
| Battery Voltage                   | 18                    | 14.4                |
| Stroke Length, inches (mm)        | 1 (25.4)              | 0.50 (12.7)         |
| Strokes Per Minute                | 2,400                 | 3,100               |
| Length, inches (mm)               | 18 (457)              | 12 (304)            |
| Height with Battery, inches (mm)  | 8.25 (210)            | —                   |
| Weight with Battery Pack, lb (kg) | 7.7 (3.4)             | 3.2 (1.5)           |
| Variable Speed Switch             | —                     | Yes                 |
| Charge Time (minutes)             | 75                    | 70                  |
| Warranty (battery)                | 2 Years               | 1 Year              |
| Warranty (tool and charger)       | 2 Years               | 1 Year              |
| Battery (qty)                     | CTB8187 (1)           | CTB8174 (2)         |
| Battery Charger                   | CTC131                | CTC772A             |
| Tool Only                         | CTRS8850DB            | CTRS761ADB          |

CE

One battery/no charger; CTRS8850W1 / CTRS8850WB



• Read and follow safety messages for each type of Cordless Tool on the following pages and the safety precautions on pages W1 to W4

# CORDLESS: QUICK REFERENCE CHART

## Screwdrivers

| Specifications               | CTS825K2            | CTS761AK2           | CTSR761K2           | CTSS761K2           |
|------------------------------|---------------------|---------------------|---------------------|---------------------|
| Style                        | Pistol              | Pistol              | Inline              | Inline              |
| Battery Type                 | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah |
| Battery Voltage              | 14.4                | 14.4                | 14.4                | 14.4                |
| Trigger Style                | Pistol              | Toggle              | Paddle              | Paddle              |
| Charge Time, minutes         | 70                  | 70                  | 70                  | 70                  |
| Chuck Cap., inches (mm)      | 1/4 (6)             | 1/4 (6)             | 1/4 (6)             | 1/4 (6)             |
| Square Drive, inches (mm)    | 1/4 (6) Hex         | 1/4 (6) Hex         | 1/4 (6) Hex         | 1/4 (6) Hex         |
| Torque Output, in-lb (N•m)   | 200 (22.6)          | 150 (17)            | 150 (16.9)          | 65 (7.3)            |
| Clutch Settings              | 9                   | 9                   | 9                   | 9                   |
| Gear Box Type                | 2-Speed             | 2-Speed             | 2-Speed             | Single Speed        |
| Free Speed, RPM              | 450                 | 400/1,400           | 0–1,550             | 0–1,350             |
| RPM (low)                    | 0–450               | 0–400               | 0–450               | —                   |
| RPM (high)                   | 1,400               | 1,400               | 1,400               | —                   |
| Length, inches (mm)          | 6.2 (157)           | 5.8 (147.3)         | 13.3 (337.8)        | 13.3 (337.8)        |
| Width, inches (mm)           | 1.9 (48)            | 1.9 (48)            | 4 (101.6)           | 2 (50.8)            |
| Height, inches (mm)          | 7.8 (198)           | 7.8 (198.1)         | 2 (50.8)            | 4 (101.6)           |
| Weight with Battery, lb (kg) | 2.2 (1.0)           | 2 (0.9)             | 3.2 (1.5)           | 3.1 (1.4)           |
| Warranty (battery)           | 1 Year              | 1 Year              | 1 Year              | 1 Year              |
| Warranty (tool and charger)  | 1 Year              | 1 Year              | 1 Year              | 1 Year              |
| Battery (qty)                | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         |
| Battery Charger              | CTC772A             | CTC772A             | CTC772A             | CTC772A             |
| Tool Only                    | CTS825DB            | CTS761ADB           | CTSR761DB           | CTSS761DB           |

CE

## 18 V Grinders/Cut-Off Tools

| Specifications                   | CTGR8850K2            | CTGR8855K2            |
|----------------------------------|-----------------------|-----------------------|
| Battery Type                     | MonsterLithium 5.0 Ah | MonsterLithium 5.0 Ah |
| Battery Voltage                  | 18                    | 18                    |
| Wheels, inches                   | 4.5 (114) or 5 (127)  | 4.5 (114) or 5 (127)  |
| Arbor Size, inches (mm)          | 7/8 (22)              | 7/8 (22)              |
| Free Speed, RPM                  | 8,000                 | 8,000                 |
| Charge Time (minutes)            | 75                    | 75                    |
| Switch Type                      | Slide Switch          | Safety Switch         |
| Length with battery, inches (mm) | 16.5 (419)            | 16.5 (419)            |
| Weight with Battery, lb (kg)     | 5.7 (2.4)             | 5.5 (2.5)             |
| Warranty (tool and charger)      | 2 Years               | 2 Years               |
| Warranty (battery)               | 2 Years               | 2 Years               |
| Tool Only                        | CTGR8850DB            | CTGR8855DB            |

## 14.4 V Brushless Polish/Prep Tools

| Specifications               | CTPP861K2           |
|------------------------------|---------------------|
| Battery Type                 | MicroLithium 2.5 Ah |
| Battery Voltage              | 14.4                |
| Spindle Thread, inches       | 5/16"–24 UNF        |
| Disc Pad, inches (mm)        |                     |
| Free Speed, RPM, Low (High)  | 0–3,500 (0–15,000)  |
| Charge Time (minutes)        | 70                  |
| Weight with Battery, lb (kg) | 7.8 (198.1)         |
| Length, inches (mm)          | 5.75 (146)          |
| Height, inches (mm)          | 7.8 (198.1)         |
| Width, inches (mm)           | —                   |
| Warranty (Battery)           | 1 Year              |
| Warranty (Tool and Charger)  | 1 Year              |
| Tool Only                    | CTPP861DB           |

## Ratchets

| Specifications                   | Square Drive        |                     |                     |                     |                     | Hex Drive           |                     |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                                  | CTR767K2            | CTR762K2            | CTR761CK2           | CTR717K2            | CTR714AK2           | CTRQ717K2           | CTRQ714K2           |
| Battery Type                     | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah |
| Battery Voltage                  | 14.4                | 14.4                | 14.4                | 14.4                | 14.4                | 14.4                | 14.4                |
| Charge Time, minutes             | 70                  | 70                  | 70                  | 70                  | 70                  | 70                  | 70                  |
| Square Drive, inches (mm)        | 3/8 (10)            | 3/8 (10)            | 3/8 (10)            | 1/4 (6)             | 1/4 (6)             | 1/4 (6) Hex         | 1/4 (6) Hex         |
| Torque Output, ft-lb (N•m)       | 40 (54)             | 70 (95)             | 40 (54)             | 35 (47)             | 35 (47)             | 35 (47)             | 35 (47)             |
| Manual Torque, ft-lb (N•m)       | 158 (214)           | 158 (214)           | 158 (214)           | 46 (62)             | 46 (62)             | 46 (62)             | 46 (62)             |
| Free Speed, RPM                  | 275                 | 175                 | 275                 | 350                 | 350                 | 350                 | 350                 |
| Height with Battery, inches (mm) | 15.75 (400)         | 12.8 (324)          | 12.2 (310)          | 13.7 (348)          | 10.75 (273)         | 13.7 (348)          | 10.75 (273)         |
| Weight with Battery, lb (kg)     | 3.1 (1.4)           | 2.8 (1.3)           | 2.5 (1.1)           | 2.4 (1.1)           | 2 (.91)             | 2.4 (1.1)           | 2 (.91)             |
| Warranty (battery)               | 1 Year              | 1 Year              | 1 Year              | 1 Year              | 1 Year              | 1 Year              | 1 Year              |
| Warranty (tool and charger)      | 1 Year              | 1 Year              | 1 Year              | 1 Year              | 1 Year              | 1 Year              | 1 Year              |
| Battery (qty)                    | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         |
| Battery Charger                  | CTC772A             | CTC772A             | CTC772A             | CTC772A             | CTC772A             | CTC772A             | CTC772A             |
| Tool Only                        | CTR767DB            | CTR762DB            | CTR761CDB           | CTR717DB            | CTR714ADB           | CTRQ717DB           | CTRQ714DB           |

# CORDLESS: 18-VOLT BRUSHLESS IMPACT WRENCHES



CT9100K2



CT9075K2

## Brushless Impacts

| Specifications                   | CT9100K2              |
|----------------------------------|-----------------------|
| Battery Type                     | MonsterLithium 5.0 Ah |
| Battery Voltage                  | 18                    |
| Charge Time, minutes             | 75                    |
| Square Drive, inches (mm)        | 3/4 (19)              |
| Torque Output, ft-lb (N•m)       | 1,000 (1,355)         |
| Blows Per Minute, BPM            | 2,100                 |
| Free Speed, RPM                  | 1,500                 |
| Height with Battery, inches (mm) | 9.5 (241)             |
| Length, inches (mm)              | 10.3 (265)            |
| Weight with Battery, lb (kg)     | 8.9 (4.04)            |
| Warranty (battery)               | 2 Years/1,000 Cycles  |
| Warranty (tool and charger)      | 2 Years               |
| Battery (qty)                    | CTB185 (2)            |
| Battery Charger                  | CTC131                |
| Optional Protective Boot         | —                     |
| Tool Body Only                   | CT9100DB              |

### CT9100K2 18 V 3/4" Drive MonsterLithium Brushless Cordless Impact Wrench Kit

- 1,000 ft-lb of torque output easily breaks stubborn fasteners loose
- Digital microprocessor-controlled switch; maximizes performance, run time and durability
- Three torque settings in forward and three in reverse help the tool adapt to various applications
- Built-in brake stops the anvil and prevents the tool from throwing fasteners and sockets
- Super-bright LED illuminates the work area
- USB built into the charger
- Includes (2) MonsterLithium batteries and a charger

| Specifications                   | CT9075K2              |
|----------------------------------|-----------------------|
| Battery Type                     | MonsterLithium 5.0 Ah |
| Battery Voltage                  | 18                    |
| Charge Time, minutes             | 75                    |
| Square Drive, inches (mm)        | 1/2 (13)              |
| Torque Output, ft-lb (N•m)       | 900 (1,220)           |
| Blows Per Minute, BPM            | 2,100                 |
| Free Speed, RPM                  | 1,500                 |
| Height with Battery, inches (mm) | 9.5 (241)             |
| Length, inches (mm)              | 9.6 (244)             |
| Weight with Battery, lb (kg)     | 8.7 (3.95)            |
| Warranty (battery)               | 2 Years               |
| Warranty (tool and charger)      | 2 Years               |
| Battery (qty)                    | CTB185 (2)            |
| Battery Charger                  | CTC131                |
| Optional Protective Boot         | CT9075BOOT            |
| Tool Body Only                   | CT9075DB              |

### CT9075K2 18 V 1/2" Drive MonsterLithium Brushless Cordless Impact Wrench Kit

- 900 ft-lb of torque output easily breaks stubborn fasteners loose
- Digital microprocessor-controlled switch; maximizes performance, run time and durability
- Three torque settings each in forward and reverse help the tool adapt to various applications
- Built-in brake stops the anvil and prevents the tool from throwing fasteners and sockets
- Super-bright LED illuminates the work area
- Includes 5 Ah battery for longevity
- Includes dual 14.4/18 V lithium charger to save space
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| 1 Battery, 1 Charger:   | K1  | GK1   | HVK1   |
| Tool Only:              | DB  | GDB   | HVDB   |
| Boot:                   |     | GBOOT | HVBOOT |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS |



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

## CORDLESS: 18-VOLT IMPACT WRENCHES



CT8810BK2



CT8815BK2

### CT8810 Series 18 V 3/8" Drive Impact Wrenches

| Specifications                                 | CT8810BK2             |
|--|-----------------------|
| Battery Type                                   | MonsterLithium 5.0 Ah |
| Battery Voltage                                | 18                    |
| Charge Time, minutes                           | 75                    |
| Square Drive, inches (mm)                      | 3/8 (10)              |
| Anvil Type                                     | Friction Ring         |
| Torque Output, ft-lb (N•m)                     | 230 (311.8)           |
| Blows Per Minute, BPM                          | 3,480                 |
| Free Speed, RPM                                | 2,400                 |
| Sound Power Level, dB(A)                       | 108                   |
| Sound Pressure Level, dB(A)                    | 97                    |
| Vibration Level                                | 5.3 m/s <sup>2</sup>  |
| Length, inches (mm)                            | 6.5 (165)             |
| Height with Battery, inches (mm)               | 9.5 (241)             |
| Weight with Battery Pack, lb (kg)              | 4.5 (2.4)             |
| Warranty (battery)                             | 2 Years               |
| Warranty (tool and charger)                    | 2 Years               |
| Battery (qty)                                  | CTB8187 (2)           |
| Battery Charger                                | CTC131                |
| Pinned Anvil Version                           | CT8810BP              |
| Quick-Change Chuck Version (hex size of chuck) | CT8810BQCK2 (1/4")    |
| Tool Body Only                                 | CT8810BDB             |
| Optional Protective Boot                       | CT8810BOOT            |

CE – DE, ES, GB, FR, IT, NL, UL, CUL

#### CT8810BK2 18 V 3/8" Drive MonsterLithium Impact Wrench Kit

- Provides an incredibly powerful 230 ft-lb of torque at a lightweight 4.25 lb
- High-capacity 90 watt-hour, 18 V MonsterLithium battery for a long run time
- Cold-formed alloy steel anvil for maximum durability
- Digital fuel gauge and micro-controller in the lithium battery monitors temperature and amperage to prevent motor overheating
- A portable powerhouse that can withstand the toughest conditions, whether inside or outside of the shop
- Kit includes (2) batteries and (1) charger

#### Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| 1 Battery, 1 Charger:   | K1  | GK1   | HVK1   |
| Tool Only:              | DB  | GDB   | HVDB   |
| Boot:                   |     | GBOOT | HVBOOT |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### CT8815 Series 18 V 1/2" Drive Impact Wrenches

| Specifications                    | CT8815BK2             |
|-----------------------------------|-----------------------|
| Battery Type                      | MonsterLithium 5.0 Ah |
| Battery Voltage                   | 18                    |
| Charge Time, minutes              | 75                    |
| Square Drive, inches (mm)         | 1/2 (13)              |
| Anvil Type                        | Friction Ring         |
| Torque Output, ft-lb (N•m)        | 230 (311.8)           |
| Blows Per Minute, BPM             | 3,480                 |
| Free Speed, RPM                   | 2,400                 |
| Sound Power Level, dB(A)          | 108                   |
| Sound Pressure Level, dB(A)       | 97                    |
| Vibration Level                   | 5.3 m/s <sup>2</sup>  |
| Length, inches (mm)               | 6.5 (165)             |
| Height with Battery, inches (mm)  | 9.5 (241)             |
| Weight with Battery Pack, lb (kg) | 4.5 (2.4)             |
| Warranty (tool and charger)       | 2 Years               |
| Warranty (battery)                | 2 Years/1,000 Cycles  |
| Battery (qty)                     | CTB8185BK (2)         |
| Battery Charger                   | CTC131                |
| Tool Body Only                    | CT8815BDB             |
| Optional Protective Boot          | CT8810BOOT            |

CE – DE, ES, GB, FR, IT, NL, UL, CUL

#### CT8815BK2 18 V 1/2" Drive MonsterLithium Cordless Impact Wrench Kit

- Provides 230 ft-lb at a light weight of 4-1/2 lb
- High-capacity 90 watt-hour, 18 V MonsterLithium battery for a long run time
- CT8815B can remove 525 bolts tightened at 200 ft-lb on one battery charge
- Cold-formed, alloy steel anvil for maximum durability
- Digital fuel gauge and micro-controller in the lithium battery monitors temperature and amperage to prevent motor overheating
- Ergonomic overmolded cushion grip for continuous use with less fatigue
- Kit includes tool, (2) batteries and (1) charger

# CORDLESS: 18-VOLT IMPACT WRENCHES



CT8850K2

## Cordless Impacts

| Specifications                                 | CT8850K2              |
|--|-----------------------|
| Battery Type                                   | MonsterLithium 5.0 Ah |
| Battery Voltage                                | 18                    |
| Charge Time, minutes                           | 75                    |
| Square Drive, inches (mm)                      | 1/2 (13)              |
| Anvil Type                                     | Friction Ring         |
| Torque Output, ft-lb (N•m)                     | 600 (813)             |
| Blows Per Minute, BPM                          | 2,280                 |
| Free Speed, RPM                                | 1,900                 |
| Length, inches (mm)                            | 9.6 (244)             |
| Height with Battery, inches (mm)               | 10.2 (259)            |
| Weight with Battery, lb (kg)                   | 7.3 (3)               |
| Warranty (battery)                             | 2 Years               |
| Warranty (tool and charger)                    | 2 Years               |
| Battery (qty)                                  | CTB8187 (2)           |
| Battery Charger                                | CTC131                |
| Pinned Anvil Version                           | CT8850P               |
| Quick-Change Chuck Version (hex size of chuck) | CT8850QCK2 (7/16")    |
| Tool Body Only                                 | CT8850DB              |
| Optional Protective Boot                       | CT8850BOOT            |

### CT8850K2 18 V 1/2" Drive MonsterLithium Cordless Impact Wrench Kit

- 600 ft-lb of torque output breaks stubborn fasteners loose easily
- Digital microprocessor-controlled switch; maximizes performance, run time and durability
- Built-in brake stops the anvil and prevents the tool from throwing fasteners and sockets
- Super-bright 1 W LED illuminates the work area
- USB built into the charger
- 7.3 lb with battery
- Includes (2) MonsterLithium batteries and a charger

#### Colors Available



|                         | Red  | Green | Hi-Viz |
|-------------------------|------|-------|--------|
| 2 Batteries, 1 Charger: | K2   | GK2   | HVK2   |
| 1 Battery, 1 Charger:   | K1   | GK1   | HVK1   |
| Tool Only:              | DB   | GDB   | HVDB   |
| Boot:                   | BOOT |       |        |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Read safety precautions on pages W1 to W4

**CORDLESS: 18-VOLT DRILLS**



**CDR8850HK2**



**CDR8815K2**

**Drills/Drivers**

| Specifications               | CDR8850HK2            | CDR8815K2             |
|------------------------------|-----------------------|-----------------------|
| Battery Type                 | MonsterLithium 5.0 Ah | MonsterLithium 5.0 Ah |
| Battery Voltage              | 18                    | 18                    |
| Charge Time, minutes         | 75                    | 75                    |
| Chuck Cap., inches (mm)      | 1/2 (13)              | 1/2 (13)              |
| Spindle Thread, inches       | 1/2"-20 UNF           | 1/2"-20 UNF           |
| Torque Output, ft-lb (N•m)   | 450 (50.9)            | 500 (57)              |
| Maximum Stall Torque, in-lb  | 500                   | 500                   |
| RPM (high)                   | 0-1,800               | 0-1,780               |
| RPM (low)                    | 0-500                 | 0-520                 |
| Clutch Settings              | 22                    | 22                    |
| Gear Box Type                | 2-Speed               | 2-Speed               |
| Length, inches (cm)          | 10.0 (39.4)           | 8.8 (22.4)            |
| Height, inches (mm)          | 9.5 (241)             | 9.5 (241)             |
| Weight with Battery, lb (kg) | 5.2 (2.3)             | 4.75 (22.4)           |
| Warranty (battery)           | 2 Years               | 2 Years               |
| Warranty (tool and charger)  | 2 Years               | 2 Years               |
| Battery (qty)                | <b>CTB8187 (2)</b>    | <b>CTB8187 (2)</b>    |
| Battery Charger              | <b>CTC131</b>         | <b>CTC131</b>         |
| Tool Only                    | <b>CDR8850HDB</b>     | <b>CDR8815DB</b>      |

☐ - DE, ES, GB, FR, IT, NL, UL, CUL

**CDR8850HK2 18 V 1/2" MonsterLithium Cordless Hammer Drill Kit**

- 1/2" single-sleeve steel chuck with carbide jaws
- Heavy-duty gearing is designed for metal drilling
- Overmolded ergonomic cushion grip absorbs vibration and reduces user fatigue
- Variable-speed switch maximizes performance and control
- 22-position clutch with 2-speed gearbox provides torque control for the correct application
- Super-bright 1 W LED illuminates the work area
- Stainless steel motor screen keeps debris out of the motor to extend the life
- Temperature protection and shut down protects the tool from excessive heat damage
- LED fault signal provides a visual warning that tool is going to shut down
- Soft-start trigger ensures a smooth start-up of tool
- Includes drill, (2) CTB8187 MonsterLithium battery packs and a CTC131 charger
- UL® and cUL listed

**Colors Available**



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| 1 Battery, 1 Charger:   | K1  | GK1   | HVK1   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**CDR8815K2 18 V 1/2" Drive**

**MonsterLithium Compact Cordless Drill Kit**

- Heat-treated alloy gears provide strength and durability for longer tool life
- Digital variable-speed switch allows the user to accurately control torque
- Glass-filled nylon housing is durable and able to withstand high impact
- Ergonomic overmolded cushion grip allows for better tool control with less stress and strain
- 22-position clutch—dial in the desired torque for the application and get the job done quickly
- 1/2" keyless chuck and spindle lock; change bits with one hand
- Oversized cushion trigger and comfort cushion handle
- Side handle for added support
- Includes drill, (2) CTB8187 MonsterLithium battery packs and a CTC131 charger
- UL® and cUL listed

**Colors Available**



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





**CGG8850K1**



**CTRS8850K1**

**18 V Grease Guns**

| Specifications                       | CGG8850K1  |
|--------------------------------------|--|
| Battery Type                         | MonsterLithium 5.0 Ah                              |
| Battery Voltage                      | 18   |
| Charge Time, minutes                 | 75   |
| Pressure Rating, PSI                 | 2,500 High Speed/7,500 Low Speed                   |
| Pressure Rating, BAR                 | 172 High Speed/517 Low Speed                       |
| Capacity, Tubes Per Charge           | Up to 27 (free flow)/Up to 17 (@1,000 PSI)         |
| Maximum Tube Capacity                | 14-1/2 oz (411 g) Cartridge/<br>16 oz (454 g) Bulk |
| Handle Material                      | Glass-Reinforced Nylon                             |
| Coupler Design                       | 3-Jaw  |
| Hose Length, inches (mm)             | 36 (914)   |
| Hose Type                            | High Pressure with<br>Protective Spring Guards     |
| Bulk Filler Valve                    | Yes  |
| Air Purge Valve                      | Yes  |
| Height with Grease Tube, inches (mm) | 19 (483)   |
| Weight with Battery Pack, lb (kg)    | 7.9 (3.6)  |
| Weight without Battery Pack, lb (kg) | 6.4 (2.9)  |
| Warranty (battery)                   | 2 Years  |
| Warranty (tool)                      | 2 Years  |
| Battery (qty)                        | <b>CTB8187 (1)</b>                                 |
| Battery Charger                      | <b>CTC131</b>                                      |
| Tool Only                            | <b>CGG8850DB</b>                                   |

**CGG8850K1 18 V Cordless Grease Gun Kit (One Battery/Charger)**

- Two-speed, high-torque 18 V DC motor delivers outstanding flow and pressure
- 36" high-pressure hose with spring guard and coupler
- Accessible check valve and combination air bleeder/filler valve
- Dual motor protection includes self-resetting thermocoupler
- Machined and hardened piston with plated steel barrel and premium grease follower
- Ergonomically designed to reduce fatigue and increase productivity
- 18 V high-amperage lithium ion battery provides outstanding run time
- Works well in cold environments

**Colors Available**



|                         |           |            |             |
|-------------------------|-----------|------------|-------------|
| 2 Batteries, 1 Charger: | <b>K1</b> | <b>GK1</b> | <b>HVK1</b> |
| Tool Only:              | <b>DB</b> | <b>GDB</b> | <b>HVDB</b> |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Reciprocating Saw**

| Specifications                    | CTRS8850K1            |
|-----------------------------------|-----------------------|
| Battery Type                      | MonsterLithium 5.0 Ah |
| Battery Voltage                   | 18                    |
| Charge Time, minutes              | 75                    |
| Stroke Length, inches (mm)        | 1 (25.4)              |
| Strokes Per Minute                | 2,400                 |
| Height with Battery, inches (mm)  | 8.25 (210)            |
| Length, inches (mm)               | 18 (457)              |
| Weight with Battery Pack, lb (kg) | 7.7 (3.4)             |
| Warranty (tool and charger)       | 2 Years               |
| Warranty (battery)                | 2 Years               |
| Battery (qty)                     | <b>CTB8187 (1)</b>    |
| Battery Charger                   | <b>CTC131</b>         |
| Tool Only                         | <b>CTRS8850DB</b>     |

**CTRS8850K1 18 V Cordless Reciprocating Saw Kit (One Battery/Charger)**

- 75 A rated heavy-duty variable-speed trigger provides long life and is contoured to reduce user fatigue
- Heavy-duty 14-gauge internal wiring withstands high current loads during heavy sawing
- Spring-loaded blade retention system requires no tools and ejects broken blades easily
- Nonslip cushion grip nose reduces vibration and provides positive tool control
- Heavy-duty armature and balanced motor design provide smooth operation
- Turbine-style cooling system reduces heat buildup, extending tool life
- Sealed nose mechanism prevents dirt and sawing debris from damaging internal components
- Kit includes tool, charger and (1) battery



• Read safety precautions on pages W1 to W4

**CORDLESS: 18-VOLT PLATFORMS**



**CTGR8850K1**



**CTGR8855DB**

**18 V Grinders/Cut-Off Tools**

| Specifications                    | CTGR8850K1            | CTGR8855K1            |
|-----------------------------------|-----------------------|-----------------------|
| Battery Type                      | MonsterLithium 5.0 Ah | MonsterLithium 5.0 Ah |
| Battery Voltage                   | 18                    | 18                    |
| Charge Time, minutes              | 75                    | 75                    |
| Wheel Size, inches (mm)           | 4.5 (114) or 5 (127)  | 4.5 (114) or 5 (127)  |
| Arbor Size, inches (mm)           | 7/8 (22)              | 7/8 (22)              |
| Free Speed, RPM                   | 8,000                 | 8,000                 |
| Length w/battery, inches (mm)     | 16.5 (419)            | 16.5 (419)            |
| Weight with Battery, lb (kg)      | 5.7 (2.4)             | 5.5 (2.5)             |
| Switch Type                       | Slide Switch          | Safety Switch         |
| Warranty (tool and charger)       | 2 Years               | 2 Years               |
| Warranty (battery)                | 2 Years               | 2 Years               |
| Replacement Grinding Wheel (size) | PT450-WH (4.5")       | PT450-WH (4.5")       |
| Replacement Cut-Off Wheel         | CTGR-CW50             | CTGR-CW50             |
| Battery (qty)                     | CTB8187 (1)           | CTB8187 (1)           |
| Battery Charger                   | CTC131 (1)            | CTC131 (1)            |
| Tool Only                         | CTGR8850DB            | CTGR8855DB            |

**CTGR8850K1 18 V MonsterLithium Cordless Angle Grinder/Cut-Off Tool Kit (One Battery/Charger)**

- 8,000 RPM; handles most grinding jobs with ease
- Ultra-slim head allows the user to access areas other grinders cannot
- Battery rotates 270° and will not get in the way
- Takes 4-1/2 or 5" wheels—more options to get the job done fast
- Anti-vibration handle—allows the user to work longer and more comfortably
- Replaceable motor screen—keeps debris out of the motor so the tool lasts longer
- Seven-position safety guard—lets the user tackle most jobs with less effort
- Tool-less guard removal—simply pull one guard off and slide the other one on
- Includes tool, (1) battery and a charger

**CTGR8855K1 18 V MonsterLithium Cordless Angle Grinder/Cut-Off Tool Kit with Safety Switch (One Battery/Charger)**

- Flat head design for easy access
- 8,000 RPM
- Use with 4-1/2 and 5" wheels
- Seven-position safety guard
- Electronic safety clutch
- Motor screen helps keep debris out of motor
- Battery rotates 270°
- Anti-vibration handle
- High stall torque
- OSHA-compliant switch
- Kit includes tool, (1) battery and a charger



CT761AK2

## 14.4 V MicroLithium Impact Wrenches

| Specifications                                 | CT761AK2            |
|--|---------------------|
| Battery Type                                   | MicroLithium 2.5 Ah |
| Battery Voltage                                | 14.4                |
| Charge Time, minutes                           | 70                  |
| Square Drive, inches                           | 1/4" Quick Change   |
| Anvil Type                                     | Friction Ring       |
| Torque Output, ft-lb (N•m)                     | 120 (163)           |
| Blows Per Minute, BPM                          | 3,000               |
| Free Speed, RPM                                | 2,500               |
| Height with Battery, inches (mm)               | 7.7 (195)           |
| Weight with Battery, lb (kg)                   | 2.5 (1.1)           |
| Warranty (battery)                             | 1 Year              |
| Warranty (tool and charger)                    | 1 Year              |
| Battery (qty)                                  | CTB8174 (2)         |
| Charger  | CTC772A             |
| Tool Only                                      | CT761ADB            |
| Quick-Change Chuck Version (hex size of chuck) | CT761AQCK2 (1/4")   |

### CT761AK2 14.4 V 3/8" Drive MicroLithium Cordless Impact Wrench Kit

- 120 ft-lb torque output
- 2,500 RPM free speed
- 70-minute charge time
- Digital variable-speed toggle-style trigger for precise control
- Tri-beam headlights illuminate work area
- Built-in brake prevents the tool from throwing sockets and fasteners
- Overcurrent and thermal protection for the motor
- Under-voltage protection will not overdraw the battery
- Built-in gauge indicates the battery charge state
- Screened motor keeps debris from entering critical components
- Cushion grip handle provides positive tool control with less fatigue
- Over- and under-temperature protection keeps the tool operating at peak efficiency
- Glass-filled nylon housing for durability
- Includes tool, (2) batteries and a charger

#### Colors Available



|  | Red  | Green | Hi-Viz |
|--|------|-------|--------|
| 2 Batteries, 1 Charger:                    | K2   | GK2   | HVK2   |
| Tool Only:                                 | DB   | GDB   | HVDB   |
| Quick Change Kit (2 Batteries, 1 Charger): | QCK2 |       |        |
| Quick Change Tool Only:                    | QCDB |       |        |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Use only impact sockets and accessories with impact wrenches
- Do not use grinders or cut-off tools without the guard
- Read safety precautions on pages W1 to W4

**CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS**



**CT725AK2**



**CTRS761AK2**

**14.4 V MicroLithium Impact Wrenches**

| Specifications                   | CT725AK2            |
|----------------------------------|---------------------|
| Battery Type                     | MicroLithium 2.5 Ah |
| Battery Voltage, V               | 14.4                |
| Charge Time, minutes             | 70                  |
| Square Drive, inches             | 1/4 (6)             |
| Torque Output, ft-lb (N•m)       | 70 (95)             |
| Free Speed, RPM                  | 2,500               |
| Blows Per Minute, BPM            | 3,000               |
| Length, inches (mm)              | 6.3 (160)           |
| Height with Battery, inches (mm) | 7.7 (195)           |
| Weight with Battery, lb (kg)     | 2 (0.9)             |
| Warranty (battery)               | 1 Year              |
| Warranty (tool and charger)      | 1 Year              |
| Battery (qty)                    | CTB8174 (2)         |
| Charger                          | CTC772A             |
| Tool Only                        | CT725ADB            |

\*UL® and CUL listed  
CE

**CT725AK2 14.4 V 1/4" Drive MicroLithium Cordless Impact Wrench Kit**

- 70 ft-lb torque output
- Digital variable-speed toggle-style trigger
- Built-in brake prevents the anvil from spinning
- 70-minute charge time
- Twin-beam LED lights
- Built-in gauge indicates the battery charge state
- Includes tool, (2) batteries and a charger

**Colors Available**



|                         | Red  | Green | Hi-Viz |
|-------------------------|------|-------|--------|
| Kit:                    | DB   | G     | HV     |
| Tool Only:              | DB   | GDB   | HVDB   |
| Quick Change Kit        | QC   |       |        |
| Quick Change Tool Only: | QCDB |       |        |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**14.4 V MicroLithium Saws**

| Specifications                             | CTRS761AK2          |
|--|---------------------|
| Battery Type                               | MicroLithium 2.5 Ah |
| Battery Voltage                            | 14.4                |
| Charge Time, minutes                       | 70                  |
| Length, inches (mm)                        | 12 (304)            |
| Weight with Battery Pack (Li-Ion), lb (kg) | 3.2 (1.5)           |
| Variable Speed Switch                      | Yes                 |
| Stroke Length, inches (mm)                 | 0.50 (12.7)         |
| Strokes Per Minute                         | 3,100               |
| Warranty (tool and charger)                | 1 Year              |
| Warranty (battery)                         | 1 Year              |
| Battery (qty)                              | CTB8174 (2)         |
| Battery Charger                            | CTC772A             |
| Tool Only                                  | CTRS761ADB          |

**CTRS761AK2 14.4 V MicroLithium Cordless Reciprocating Saw Kit**

- 3,100 strokes per minute
- Variable-speed switch
- Dual-chuck mechanism (Quick Chuck)
- Depth guide can be adjusted without the use of tools
- Small and lightweight, making it great for working in confined areas
- Integrated LED work light
- Battery gauge LED
- Built-in gauge indicates the battery charge state
- Footplate can be adjusted to six different positions
- Quick one-handed blade release
- Housing screen keeps debris out of the motor
- Lock-off switch is located above the trigger
- Includes tool, (2) batteries and a charger

**Colors Available**



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| CTRS761A                | K2  | GK2   | HVK2   |
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

# CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS



CTS825K2



CTS761AK2

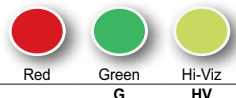
## CTS825 Series 14.4 V 1/4" Hex MicroLithium Cordless Screwdriver

| Specifications               | CTS825K2            |
|------------------------------|---------------------|
| Battery Type                 | MicroLithium 2.5 Ah |
| Battery Voltage              | 14.4                |
| Charge Time, minutes         | 70                  |
| Square Drive, inches (mm)    | 1/4 (6) Hex         |
| Torque Output, in-lb (N•m)   | 200 (22.6)          |
| Free Speed, RPM              | 450/1,500           |
| Clutch Settings              | 9                   |
| Length, inches (mm)          | 6.2 (157)           |
| Height, inches (mm)          | 7.8 (198)           |
| Width, inches (mm)           | 1.9 (48)            |
| Weight with Battery, lb (kg) | 2.2 (1.0)           |
| Warranty (battery)           | 1 Year              |
| Warranty (tool and charger)  | 1 Year              |
| Battery (qty)                | CTB8174 (2)         |
| Battery Charger              | CTC772A             |
| Tool Only                    | CTS825DB            |

### CTS825K2 14.4 V 1/4" Hex MicroLithium Cordless Screwdriver Kit

- 200 in-lb of torque output
- Twin-beam headlights illuminate the work area
- Built-in brake prevents the tool from throwing sockets and fasteners
- Nine-position clutch allows the user to dial in the proper torque
- Glass-filled nylon housing for durability
- Cushion grip handle provides positive tool control with less fatigue
- Under voltage protection will not overdraw the battery
- Quick 70-minute battery charge for less downtime
- Overcurrent protection protects the electronics
- Built-in gauge displays the battery charge state
- Screened motor keeps debris from entering critical components
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         |     |       |        |
|-------------------------|-----|-------|--------|
|                         | Red | Green | Hi-Viz |
|                         |     | G     | HV     |
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## CTS761 Series 14.4 V MicroLithium Screwdrivers

| Specifications               | CTS761AK2           |
|------------------------------|---------------------|
| Battery Type                 | MicroLithium 2.5 Ah |
| Battery Voltage              | 14.4                |
| Charge Time, minutes         | 70                  |
| Chuck Cap., inches (mm)      | 1/4 (6)             |
| Square Drive, inches (mm)    | 1/4 (6) Hex         |
| Torque Output, in-lb (N•m)   | 150 (17)            |
| Clutch Settings              | 9                   |
| Free Speed, RPM              | 400/1,400           |
| Height, inches (mm)          | 7.8 (198.1)         |
| Weight with Battery, lb (kg) | 2 (0.9)             |
| Warranty (battery)           | 1 Year              |
| Warranty (tool and charger)  | 1 Year              |
| Battery (qty)                | CTB8174 (2)         |
| Battery Charger              | CTC772A             |
| Tool Only                    | CTS761ADB           |

\*UL® and cUL listed

CE

### CTS761AK2 14.4 V 1/4" Hex Drive MicroLithium Cordless Screwdriver Kit

- 150 in-lb of torque output
- Two-speed gearbox—400/1,400 RPM
- 300 in-lb manual spindle lock
- Nine-position clutch allows the user to dial in the proper torque
- Glass-filled nylon housing for durability
- Digital variable-speed toggle-style trigger for precise control
- Twin-beam headlights illuminate the work area
- Built-in brake prevents the tool from throwing sockets and fasteners
- 70-minute charge time
- Overcurrent protection protects the electronics; under-voltage protection will not overdraw the battery
- Built-in gauge displays the battery charge state
- Screened motor keeps debris from entering critical components
- Cushion grip handle provides positive tool control with less fatigue
- Super bright LED headlight
- UL® and cUL listed
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         |     |       |        |
|-------------------------|-----|-------|--------|
|                         | Red | Green | Hi-Viz |
|                         |     | G     | HV     |
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

# CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS



CTSR761K2



CTSS761K2

## CTSR761 Series Cordless Screwdrivers

| Specifications              | CTSR761K2           |
|-----------------------------|---------------------|
| Battery Type                | MicroLithium 2.5 Ah |
| Battery Voltage             | 14.4                |
| Charge Time, minutes        | 70                  |
| Torque Output, in-lb (N•m)  | 150 (16.9)          |
| Clutch Settings             | 9                   |
| Free Speed, RPM             | 0–1,550             |
| Length, inches (mm)         | 13.3 (337.8)        |
| Height, inches (mm)         | 4 (101.6)           |
| Width, inches (mm)          | 2 (50.8)            |
| Warranty (battery)          | 1 Year              |
| Warranty (tool and charger) | 1 Year              |
| Battery (qty)               | CTB8174 (2)         |
| Battery Charger             | CTC772A             |
| Tool Only                   | CTSR761DB           |

\*UL® and cUL listed  
C €

### CTSR761K2 14.4 V 1/4" MicroLithium Cordless Right Angle Screwdriver Kit

- Features an oversized paddle trigger and easy-access Forward/Reverse button
- 150 in-lb of torque
- 450–1,550 RPM free speed
- Ergonomic cushion grip
- Two-speed gearbox
- Variable-speed extended trigger
- Nine-position clutch
- Built-in LED light
- Rapid 70-minute charge time
- Ideal for metals, plastic, aluminum, fiberglass, exhaust, hanger work, ATVs and mud flaps
- Used for dash work, stripped fasteners and removing/installing panels
- Handles most standard-style screwdriver bits, as well as power bits
- One-handed bit insertion
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | —     | —      |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## CTSS761 Series Cordless Screwdrivers

| Specifications               | CTSS761K2           |
|------------------------------|---------------------|
| Battery Type                 | MicroLithium 2.5 Ah |
| Battery Voltage              | 14.4                |
| Charge Time, minutes         | 70                  |
| Torque Output, in-lb (N•m)   | 65 (7.3)            |
| Clutch Settings              | 9                   |
| Free Speed, RPM              | 0–1,350             |
| Length, inches (mm)          | 13.3 (337.8)        |
| Height, inches (mm)          | 4 (101.6)           |
| Width, inches (mm)           | 2 (50.8)            |
| Chuck Cap., inches (mm)      | 1/4 (6)             |
| Weight with Battery, lb (kg) | 3.1 (1.4)           |
| Warranty (battery)           | 1 Year              |
| Warranty (tool and charger)  | 1 Year              |
| Battery (qty)                | CTB8174 (2)         |
| Battery Charger              | CTC772A             |
| Tool Only                    | CTSS761DB           |

\*UL® and cUL listed  
C €

### CTSS761K2 14.4 V MicroLithium Cordless Inline Screwdriver Kit

- 65 in-lb of torque output to get the job done
- 1,350 RPM
- Variable-speed trigger allows the user to regulate the proper RPM
- Nine-position clutch to dial in the proper torque
- Built-in LED light to illuminate the work area
- Includes (2) 14.4 V lithium batteries
- Rapid 70-minute charge time keeps the job moving
- Handles most standard-style screwdriver bits, as well as power bits
- One-handed bit insertion
- Ergonomic cushion grip handle keeps you working comfortably all day
- Easy-access Forward/Reverse button
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

# CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS



CTR761CK2



CTR714AK2



CTR762K2

## 14.4 V MicroLithium Cordless Ratchets

| Specifications                   | CTR761CK2           | CTR714AK2           | CTR762K2            |
|----------------------------------|---------------------|---------------------|---------------------|
| Battery Type                     | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah |
| Battery Voltage                  | 14.4                | 14.4                | 14.4                |
| Charge Time, minutes             | 70                  | 70                  | 70                  |
| Square Drive, inches (mm)        | 3/8 (10)            | 1/4 (6)             | 3/8 (10)            |
| Torque Output, ft-lb (N•m)       | 40 (54)             | 35 (47)             | 70 (95)             |
| Manual Torque, ft-lb (N•m)       | 158 (214)           | 46 (62)             | 158 (214)           |
| Free Speed, RPM                  | 275                 | 350                 | 175                 |
| Height with Battery, inches (mm) | 12.2 (310)          | 10.75 (273)         | 12.8 (324)          |
| Weight with Battery, lb (kg)     | 2.5 (1.1)           | 2 (.91)             | 2.8 (1.3)           |
| Warranty (battery)               | 1 Year              | 1 Year              | 1 Year              |
| Warranty (tool and charger)      | 1 Year              | 1 Year              | 1 Year              |
| Battery (qty)                    | CTB8174 (2)         | CTB8174 (2)         | CTB8174 (2)         |
| Battery Charger                  | CTC772A             | CTC772A             | CTC772A             |
| Tool Only                        | CTR761CDB           | CTR714ADB           | CTR762DB            |

CE – DE, ES, FR, IT, GB, NL, JP

### CTR761CK2 14.4 V 3/8" Drive MicroLithium Cordless Ratchet Kit

- 40 ft-lb of torque output to remove stubborn fasteners
- Easily withstands 158 ft-lb of manual torque
- 275 RPM for fast removal and installation of fasteners
- Digital variable-speed trigger for precise control
- Built-in brake prevents the tool from throwing sockets and fasteners
- Utilizes a hardened wear bushing to increase brake life
- Dual-pawl ratchet mechanism for added strength
- Over- and under-temperature protection keeps the tool operating at peak efficiency
- Utilizes a Snap-on® 14.4 V 2.5 Ah MicroLithium battery that can be recharged in 70 minutes
- Battery fuel gauge LED is cleverly integrated into the handle
- Cushion grip handle provides positive tool control with less fatigue
- Tapered ratchet head provides access into tight spaces
- Includes tool, (2) batteries and a charger

### CTR714AK2 14.4 V 1/4" Drive MicroLithium Cordless Ratchet Kit

- Powerful 35 ft-lb of torque output; perfect tool for applications with fasteners 12 mm or smaller
- High speed (350 RPM free speed) for quick fastener removal and installation
- Dedicated 1/4" ratchet platform with compact design for greater accessibility
- Variable-speed trigger for precise control
- Built-in LED headlight to illuminate the work area
- Includes tool, (2) batteries and a charger

### CTR762K2 14.4 V 3/8" Drive MicroLithium Cordless Ratchet Kit

- 70 ft-lb of torque output to get the job done
- Digital variable-speed trigger for precise tool control
- Built-in brake stops the tool from throwing sockets and fasteners
- Integrated LED light helps illuminate the work area
- Cushion grip handle provides positive tool control
- Large Forward/Reverse knob for easy change of direction
- LED fuel gauge helps identify the battery's state of charge
- 2.5 Ah batteries for extra-long run time between charges
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| *1 Battery, 1 Charger:  | K1  | GK1   | HVK1   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Do not use in an explosive or flammable atmosphere  
• Read safety precautions on pages W1 to W4

**CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS**



**14.4 V Long-Reach Ratchets**

| Specifications                   | CTR767K2**          | CTR717K2            |
|----------------------------------|---------------------|---------------------|
| Battery Type                     | MicroLithium 2.5 Ah | MicroLithium 2.5 Ah |
| Battery Voltage                  | 14.4                | 14.4                |
| Charge Time, minutes             | 70                  | 70                  |
| Square Drive, inches (mm)        | 3/8 (10)            | 1/4 (6)             |
| Torque Output, ft-lb (N•m)       | 40 (54)             | 35 (47)             |
| Manual Torque, ft-lb (N•m)       | 158 (214)           | 46 (62)             |
| Free Speed, RPM                  | 275                 | 350                 |
| Height with Battery, inches (mm) | 15.75 (400)         | 13.7 (348)          |
| Weight with Battery, lb (kg)     | 3.1 (1.4)           | 2.4 (1.1)           |
| Warranty (battery)               | 1 Year              | 1 Year              |
| Warranty (tool and charger)      | 1 Year              | 1 Year              |
| Battery (qty)                    | CTB8174 (2)         | CTB8174 (2)         |
| Battery Charger                  | CTC772A             | CTC772A             |
| Tool Only                        | CTR767DB            | CTR717DB            |

\*\* C – DE, ES, FR, IT, GB, NL, JP

**CTR717K2 14.4 V 1/4" Drive MicroLithium Cordless Long Reach Ratchet Kit**

- Powerful 35 ft-lb of torque output—the perfect tool for applications with fasteners sized 12 mm or smaller
- High speed (350 RPM free speed) for quick fastener removal and installation
- Dedicated 1/4" drive ratchet platform with compact design for greater accessibility
- Variable-speed trigger for precise control
- Built-in LED headlight illuminates the work area
- Includes tool, (2) batteries and a charger

Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| *1 Battery, 1 Charger:  | K1  | GK1   | HVK1   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**CTR767K2 14.4 V 3/8" Drive MicroLithium Cordless Long Reach Ratchet Kit**

- 6"-long extended neck for great accessibility
- 40 ft-lb of torque output
- 275 RPM free speed
- Variable-speed trigger for greater control
- Ratchet mechanism, ratchet head, and neck are strong enough to handle 158-plus ft-lb of manual torque
- Includes tool, (2) batteries and a charger

Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | GDB   | HVDB   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





**CTRQ714K2**



**CTRQ717K2**

**CTRQ714 Series 14.4 V Hex Drive Ratchets**

| Specifications                   | CTRQ714K2           |
|----------------------------------|---------------------|
| Battery Type                     | MicroLithium 2.5 Ah |
| Battery Voltage                  | 14.4                |
| Charge Time, minutes             | 70                  |
| Square Drive, inches (mm)        | 1/4 (6) Hex         |
| Torque Output, ft-lb (N•m)       | 35 (47)             |
| Manual Torque, ft-lb (N•m)       | 46 (62)             |
| Free Speed, RPM                  | 350                 |
| Height with Battery, inches (mm) | 10.75 (273)         |
| Weight with Battery, lb (kg)     | 2 (.91)             |
| Warranty (battery)               | 1 Year              |
| Warranty (tool and charger)      | 1 Year              |
| Battery (qty)                    | CTB8174 (2)         |
| Battery Charger                  | CTC772A             |
| Tool Only                        | CTRQ714DB           |

CE – DE, ES, FR, IT, GB, NL, JP

**CTRQ714K2 14.4 V Hex Drive MicroLithium Cordless Ratchet Kit**

- Tapered head design for accessibility
- Powerful motor for increased torque and speed
- Battery “fuel gauge” indicator light
- 2.5 Ah battery for a long run time
- Overmolded grip for control and comfort
- Variable-speed trigger for control
- LED headlight for visibility
- Hex drive can receive multiple size bits
- Low profile means greater accessibility
- Includes tool, (2) batteries and a charger

**CTRQ717 Series 14.4 V Hex Drive Long Neck Ratchets**

| Specifications                   | CTRQ717K2           |
|----------------------------------|---------------------|
| Battery Type                     | MicroLithium 2.5 Ah |
| Battery Voltage                  | 14.4                |
| Charge Time, minutes             | 70                  |
| Torque Output, ft-lb (N•m)       | 35 (47)             |
| Manual Torque, ft-lb (N•m)       | 46 (62)             |
| Free Speed, RPM                  | 350                 |
| Height with Battery, inches (mm) | 13.7 (348)          |
| Weight with Battery, lb (kg)     | 2.4 (1.1)           |
| Warranty (battery)               | 1 Year              |
| Warranty (tool and charger)      | 1 Year              |
| Battery (qty)                    | CTB8174 (2)         |
| Battery Charger                  | CTC772A             |
| Tool Only                        | CTRQ717DB           |

CE – DE, ES, FR, IT, GB, NL, JP

**CTRQ717K2 14.4 V 1/4" Hex Drive Long Neck Cordless Ratchet Kit**

- Long neck reach of 13-3/4"; great for access applications
- 35 ft-lb of torque output to get the job done
- 46 ft-lb of manual torque load allows the user to manually break a fastener free
- 350 RPM free speed spins the fasteners off quickly
- 1/4" hex drive will handle a wide variety of bits
- Built-in gauge indicates the battery's charge state
- Variable-speed trigger allows for slow start-up
- LED headlight to illuminate the work area
- Low-profile tapered head for great accessibility
- Overmolded cushion grip for superior tool control
- 2.5 Ah 14.4 V battery provides a long run time
- Includes tool, (2) batteries and a charger

**Colors Available**



Red Green Hi-Viz

|                         |    |     |      |
|-------------------------|----|-----|------|
| 2 Batteries, 1 Charger: | K2 | GK2 | HVK2 |
| Tool Only:              | DB | GDB | HVDB |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Read safety precautions on pages W1 to W4

**CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS**



**CDR861K2**

**CDR861 Series 14.4 V 3/8" Capacity Brushless Drills**

| Specifications                 | CDR861K2            |
|--------------------------------|---------------------|
| Battery Type                   | MicroLithium 2.5 Ah |
| Battery Voltage                | 14.4                |
| Charge Time, minutes           | 70                  |
| Chuck Capacity inches (mm)     | 3/8 (10)            |
| Clutch Settings                | 9                   |
| Torque Output in-lb (N•m)      | 200 (22.6)          |
| Free Speed, RPM, Low (High)    | 0-450 (0-1,550)     |
| Height inches (mm)             | 7.8 (198)           |
| Length, inches (mm)            | 7.7 (195.6)         |
| Width, inches (mm)             | 1.9 (48.5)          |
| Weight with Battery, lb (kg)   | 2.4 (1.1)           |
| Operating Temperature, °F (°C) | -4-120 (-20-60)     |
| Sound Pressure Level, dB(A)    | 73.7                |
| Warranty (battery)             | 1 Year              |
| Warranty (tool and charger)    | 1 Year              |
| Battery (qty)                  | <b>CTB8174 (2)</b>  |
| Battery Charger                | <b>CTC772A</b>      |
| Tool Only                      | <b>CDR861DB</b>     |

**CDR861K2 14.4 V 3/8" MicroLithium Brushless Drill Kit**

- 200 in-lb of torque output handles a wide variety of applications
- Two-speed gearbox (450/1,550) for low- and high-speed drilling
- Variable-speed trigger is featherable, allowing the user to dial in the proper RPM for the particular application
- Nine-position clutch allows for optional torque settings based on the job
- Lightweight and easy to maneuver

- 3/8" keyless single-sleeve steel chuck makes changing bits easy
- Cushion grip nonslip comfort handle provides positive tool control, allowing less user fatigue
- Great for tight access areas like under-dash, firewalls, etc.
- Built-in fuel gauge displays battery state of charge
- Includes drill, (2) batteries (2.5 Ah) and a charger

Colors Available



2 Batteries, 1 Charger: **K2** **GK2** **HVK2**  
 ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

# CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS



**CDRS761K2**

## CDR761 Series 14.4 V 3/8" Capacity Drills

| Specifications                    | CDRS761K2           |
|-----------------------------------|---------------------|
| Battery Type                      | MicroLithium 2.5 Ah |
| Battery Voltage                   | 14.4                |
| Charge Time, minutes              | 70                  |
| Chuck Capacity, inches (mm)       | 3/8 (9.5)           |
| Clutch Settings                   | 9                   |
| Torque Output, in-lb (N•m)        | 65 (7.3)            |
| Free Speed, RPM                   | 0–1,350             |
| Sound Pressure Level, dB(A)       | 80.4                |
| Vibration Level, m/s <sup>2</sup> | 1.3                 |
| Length, inches (mm)               | 13.3 (337.8)        |
| Height, inches (mm)               | 3.3 (83.8)          |
| Width, inches (mm)                | 2 (50.8)            |
| Weight with Battery, lb (kg)      | 2.6 (1.2)           |
| Warranty (battery)                | 1 Year              |
| Warranty (tool and charger)       | 1 Year              |
| Battery (qty)                     | CTB8174 (2)         |
| Charger                           | CTC772A             |
| Tool Only                         | CDRS761DB           |

### CDRS761K2 14.4 V MicroLithium Cordless Inline Drill Kit

- 65 in-lb of torque output to get the job done
- 0–1,350 RPM free speed
- Variable-speed extended trigger lets the user regulate the proper RPM
- Nine-position clutch lets the user dial in the proper torque
- Includes (2) 14.4 V MicroLithium batteries for less downtime
- Rapid 70-minute charge time keeps the job moving
- Ergonomic cushion grip handle keeps the user working comfortably all day
- Easy-access Forward/Reverse button
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         |    |     |      |
|-------------------------|----|-----|------|
| 2 Batteries, 1 Charger: | K2 | GK2 | HVK2 |
| Tool Only:              | DB | GDB | HVDB |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**CDRR761K2**

## CDRR761 Series 14.4 V MicroLithium 3/8" Capacity Right-Angle Drills

| Specifications               | CDRR761K2           |
|------------------------------|---------------------|
| Battery Type                 | MicroLithium 2.5 Ah |
| Battery Voltage              | 14.4                |
| Charge Time, minutes         | 70                  |
| Chuck Cap., inches (mm)      | 3/8 (10)            |
| Torque Output, in-lb (N•m)   | 150 (16.9)          |
| Free Speed (RPM), Low (High) | 0–450 (0–1,550)     |
| Clutch Settings              | 9                   |
| Sound Power Level, dB(A)     | 85.3                |
| Sound Pressure Level, dB(A)  | 73.7                |
| Length, inches (mm)          | 13.3 (337.8)        |
| Height, inches (mm)          | 7.8 (198.1)         |
| Width, inches (mm)           | 1.9 (48.5)          |
| Weight with Battery, lb (kg) | 3.1 (1.4)           |
| Warranty (battery)           | 1 Year              |
| Warranty (tool and charger)  | 1 Year              |
| Battery (Quantity)           | CTB8174 (2)         |
| Battery Charger              | CTC772A             |
| Tool Only                    | CDRR761DB           |

### CDRR761K2 14.4 V 3/8" MicroLithium Cordless Right Angle Screw Gun/Drill Kit

- 150 in-lb of torque handles a wide variety of applications
- Two-speed drill (450/1,550 RPM)—low speed for higher torque applications/high speed for steel drilling
- Variable-speed switch—good featherability at low speed for driving screws and control
- Nine-position clutch delivers 8–50 in-lb of torque
- Lightweight drill—with battery only 3.2 lb
- 3/8" keyless drill chuck—single-sleeve durable steel chuck makes changing bits easy
- Cushion grip handle—non-slip comfort for the operator, positive tool control allows the operator to work longer with less fatigue
- Small size to get in tight spots—under dash, firewall, etc.
- One-year full warranty and serviced by Snap-on® Service Centers
- Built-in gauge displays the battery charge state
- Integrated LED light
- Includes tool, (2) batteries and a charger

#### Colors Available



|                         |    |     |      |
|-------------------------|----|-----|------|
| 2 Batteries, 1 Charger: | K2 | GK2 | HVK2 |
| Tool Only:              | DB | GDB | HVDB |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Read safety precautions on pages W1 to W4

**CORDLESS: 14.4-VOLT MICROLITHIUM PLATFORMS**



CTPP861K2

**14.4 V MicroLithium Brushless Polish/Prep Tools**

| Specifications               | CTPP861K2           |
|------------------------------|---------------------|
| Battery Type                 | MicroLithium 2.5 Ah |
| Battery Voltage              | 14.4                |
| Charge Time, minutes         | 70                  |
| Spindle Thread, inches       | 5/16"-24 UNF        |
| Free Speed, RPM, Low (High)  | 0-3,500 (0-15,000)  |
| Height, inches (mm)          | 7.8 (198.1)         |
| Length, inches (mm)          | 5.75 (146)          |
| Weight with Battery, lb (kg) | 7.8 (198.1)         |
| Warranty (battery)           | 1 Year              |
| Warranty (tool and charger)  | 1 Year              |
| Battery (qty)                | CTB8174 (2)         |
| Battery Charger              | CTC772A             |
| Tool Only                    | CTPP861DB           |

**CTPP861K2 14.4 V MicroLithium Brushless Cordless Polish/Prep Tool Kit**

- Two-speed gearbox—3,500/15,000 RPM
- Digital variable-speed trigger for precise tool control
- Push-button spindle lock for easy of use with accessories
- 5/16"-24 UNF threads
- Cushion grip handle provides positive tool control
- Built-in gauge indicates the battery charge state
- 2.5 Ah batteries for extra-long run time between charges
- Includes various sanding accessories

Colors Available



|                         | Red | Green | Hi-Viz |
|-------------------------|-----|-------|--------|
| 2 Batteries, 1 Charger: | K2  | GK2   | HVK2   |
| Tool Only:              | DB  | —     | —      |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Ultraviolet Flashlight**

**CTLUV761 14.4 V MicroLithium UV Cordless Work Light**

- Detect leaks with this 14.4 V MicroLithium cordless UV Work Light
- Compatible with standard leak detection dyes
- Inspection range of 8' or more
- More than 10 hours of run-time
- Tempered-glass lens
- Resists automotive fluids
- Low battery indicator (10 minutes)
- Works great with ACTR53625 universal dye
- Includes fluorescence-enhancing glasses



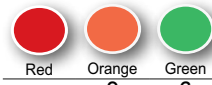
CTLUV761

**Power Tool**

**CTLAR761 14.4 V MicroLithium 500 Lumen Cordless Angular Light**

- Variable brightness switch (0–100%) gives the ability to select the right amount of light for every situation
- Intelligent lighting control provides a visual warning when the light has less than 5% power remaining
- Built-in hook, (2) magnets and a tether point provide maximum flexibility when attaching the light to a work site
- 4-hour run time at 100% brightness; 8-hour run time at 40%
- IP65 rated for water and dust resistance, allowing for exposure in even the toughest environments
- Battery “fuel gauge” provides the ability to instantly know how much power is remaining
- Ergonomic grip and pivoting light bar provide comfort and light where it is needed most
- Works with CTB8172BK and CTB8174 batteries
- Battery and charger are not included

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



CTLAR761



CTLED9050



CTLZ761

Batteries not included



CTLU761



CTLUH761



CTLED861

**Flashlights**

**CTLED9050 18 V Rechargeable MonsterLithium Cordless Work Light**

- High output light; 800 lumens
- Dual reflector system to easily change from flood to beam
- 120° rotating head
- 50,000 hour bulb life
- 11 hour run time
- Tempered glass lens resists cracking and yellowing
- Resists most automotive fluids
- Low battery indicator light indicates when battery needs charging
- Hi/Low switch allows user to reduce light output 50%

**CTLZ761 14.4 V MicroLithium Work Light with Laser**

- 200 lm output
- Low battery indicator (10 minutes)
- 4-hour run time
- Laser pointer
- Resists automotive fluids
- Impact-modified nylon housing
- Tempered-glass lens
- Works with CTB6172, CTB7172, CTB8172, CTB8172BK and CTB8174 batteries
- Battery and charger are not included

**CTLU761 14.4 V MicroLithium 60 LED Cordless Utility Light**

- Ultra-bright 540 lm
- 4-hour run time
- High-impact plastic light tube and housing
- Red LED for 10-minute low battery warning indicator
- Use with 14.4 V MicroLithium rechargeable battery (not included)
- 60 LED bulbs
- Includes a hook with a pad for hanging
- Works with CTB6172, CTB7172, CTB8172, CTB8172BK and CTB8174 batteries
- Battery and charger are not included

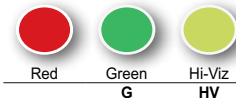
**CTLUH761 14.4 V MicroLithium 90 LED Cordless Underhood Light**

- Ultra-bright 800 lm light output
- 3-hour run time, ideal for underhood, undercarriage and over-dash applications
- Expandable 81" clamp to position light at the work area
- High-impact plastic light tube and housing
- 10-minute low battery indicator
- Includes a hook with a peg for hanging
- Works with CTB6172, CTB7172, CTB8172, CTB8172BK and CTB8174 batteries
- Battery and charger are not included

**CTLED861 14.4 V MicroLithium Cordless Work Light**

- 500 lm output
- 120° rotating head
- 13-hour run time with 10-minute low battery indicator
- Tempered-glass lens
- Easily adjusts from spot to flood
- Aluminum head
- Resists automotive fluids
- Impact-modified glass-filled nylon housing
- High-quality LED bulb
- Works with CTB6172, CTB7172, CTB8172, CTB8172BK and CTB8174 batteries
- Battery and charger are not included

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Read safety precautions on pages W1 to W4

## CORDLESS: FLOODLIGHTS

### Floodlights

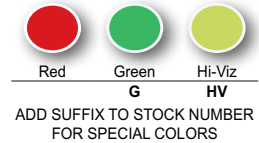


CTL8850

#### CTL8850 18 V MonsterLithium LED Cordless Floodlight

- Super-bright four-LED light—750 lm
- Compact design for versatile use
- Light rotates 120° and swivels 180° to direct light to the work area
- Tempered-glass lens
- Dual brightness settings (750 and 375 lm)
- 8-hour minimum run time (high setting)
- Resists automotive fluids
- Battery and charger are not included

#### Colors Available



CTLFD8850A

#### CTLFD8850A 18 V 3,500 Lumen Cordless Floodlight

- 50-hour run time at minimum brightness; 2-hour run time at maximum brightness
- Operates on a standard 18 V CTB8185 Snap-on® cordless tool battery (not included; sold separately)
- USB-out port allows the user to charge other electronic devices while working
- Robust housing—built with an aluminum heat sink—is able to withstand demanding environments
- Large, well-defined handles for maximum portability
- Lighting element pivots up to 100° from the resting point for ease of use
- Magnetic feet are available as accessory items



CTLFD761

#### CTLFD761 14.4 V MicroLithium Cordless Floodlight

- 15-hour run time at minimum brightness; 3-hours at maximum brightness
- Works with Snap-on® CTB8174 Battery Pack (not included; sold separately)
- Unique hinged design allows for up to 120° of adjustment
- Variable brightness switch with memory function
- Strong magnet on the bottom
- IP54 resistant to water and dust infiltration

## CORDLESS: POWER TOOLS



CTFAN9050

### Cordless Fans

#### CTFAN9050 18 V MonsterLithium Heavy-Duty Fan

- Dual power source features an 18 V battery and a 110 V AC charging port
- 18 V DC three-speed BLDC motor
- Battery lasts 13 hours on the low setting, six hours on medium and four hours on high
- Air speed is 1,500 RPM on the low setting, 2,500 RPM on medium, and 3,000 RPM on high
- Indexable fan housing with (3) 6-1/2" blades
- Propeller-style blades allow for maximum air flow
- (2) integrated 2.1 A USB ports
- Rugged, overmolded frame
- Oversized handle for easy carrying
- Large easy-to-read control panel
- Fan uses a standard extension cord; no special cords are required (cord not included)



CTG861K1

### Cordless Inflator

#### CTINF9050 18 V

##### MonsterLithium Inflator

- Features a heavy-duty 30 mm, high-volume piston compressor motor
- Maximum flow of 35 L/min
- Standard auto tire (195/65R15) 0–40 PSI in less than four minutes
- Thermal shut-off protection circuit
- Auto shut-off and pressure reset
- Backlit LCD display
- 44" field-replaceable hose
- Dual rear-mounted 200 lm LED lights
- Rugged overmolded frame
- Target PSI preset feature
- Two integrated 2.1 Ah USB ports
- Assorted nozzle inflators included



CTINF9050

### CTG861 Series Color Display Infrared Thermometers

#### CTG861K1 14.4 V MicroLithium Color Display Cordless Temperature Gun

- Safe non-contact and contact temp options
- Temperature range: -58–1,832 °F (-50–1,000 °C)
- Records min, max and live readings
- Saturn circle sighting laser pointer
- Adjustable emissivity from 0.3–1.0
- Response time 500 mSec
- Alarm On/Off and Hi/Low
- 35-hour continuous run time
- High-contrast large color LCD display with backlight
- Kit includes tool, charger and (1) battery

**Cordless Speakers**

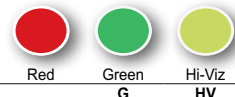
**CTBTS9050 18 V MonsterLithium Bluetooth® Speaker**

- Powered with Snap-on® 18 V batteries or 110 V AC power cord
- Approximately 18-hour run time on fully charged 18 V battery under typical-use conditions
- Two (2) 2.1 A USB ports
- Auxiliary jack for non-Bluetooth® devices
- Integrated headphone jack
- Rugged structural roll cage-designed frame
- Easy Bluetooth® pairing up to 100'
- Large convenient carry handle with textured soft grip
- Easy-to-operate controls
- Incoming call feature pauses audio when call is accepted
- Power-saving mode automatically puts unit in standby after five minutes of inactivity, saving battery charge



**CTBTS9050**

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**POWER MANAGEMENT**



**CT18850**  
(battery sold separately)



**CTMS8850**  
(battery sold separately)



**CTC131**



**CTC123**

**Memory Savers/Power Inverters**

**CTMS8850 18 V Cordless Memory Saver**

- Provides temporary power to a vehicle to keep all presets (radio, seats, etc.) intact while the vehicle is being serviced
- Features a flexible swiveling head and protective external fuse for maximum flexibility and hassle-free use
- 4-hour run time at 12 V, 1 A; 1-hour run time at 12 V, 4 A (max output)
- 5 V, 1 A USB output
- Protective external fuse

**CT18850 18 V Power Inverter**

- 175 W cordless inverter
- 120 V AC power
- 5 V 1 A USB output
- Overload, short circuit and battery voltage protector
- Flexible rotating head
- Protective external fuse and cooling fan
- Provides 110 V AC power anywhere

**Snap-on® Battery Chargers**

**CTC131 14.4 and 18 V Dual Bay Charger**

- Dual bay: Charges 14.4 V MicroLithium and 18 V MonsterLithium batteries consecutively
- Integrated USB port: Charges phones and small electronic devices
- LED fuel gauge indicator: Indicates the state of the battery charge
- Low profile: Great for tool storage
- Wall mountable: Easy to hang for out-of-the-way use
- Heavy-duty cord with daisy chain plug: Allows other electronics to remain plugged in
- Two year warranty
- FCC, CE, BC, Square D marked
- Batteries sold separately

**CTC123 14.4-18 V Multi-Bay Charger**

- Simultaneously charges three batteries
- 1 A USB charger
- Low profile
- Fuel gauge indicator
- 500 W output
- 2 year warranty
- Charges 18 V MonsterLithium and 14.4 V MicroLithium batteries

**USB Power Units**

**CTUSB761 14.4 V MicroLithium USB Power Unit**

- Connects to battery for 5 V, 1 A output, up to two hours
- LED power indicator
- USB protective sliding cover
- Easy On/Off switch
- Use with CTB8172 and CTB8174 batteries
- Charges cell phones and other small electronic devices

**CTUSB8850 Four-Port USB Device Charger**

- Adaptor for 18 V MonsterLithium Ion battery pack
- Four-Port USB charging device
- (4) 5 V Outputs: 2 A, 1 A, .5 A, .5 A
- LED indicator for state of charge
- Ratcheting mountable USB head
- Eight-hour run time at 5 V/2 A with CTB185 battery
- Handy On/Off switch



**CTUSB761**



**CTUSB8850**



• Read safety precautions on pages W1 to W4

## CORDLESS: CHARGERS AND BATTERIES



CTB185



CTB5172



CTB8172BK



CTB8174



CTB8185BK



CTB8187



CTB4147

### Snap-on® Battery Packs

| Stock No. | Type        | Voltage | Style    | Charge Time (minutes) | Use with  |
|-----------|-------------|---------|----------|-----------------------|---|
| CTB185    | Lithium Ion | 18      | Slide-On | 90                    | Generic to All 18 V MonsterLithium Product  |
| CTB5172   | Ni-Cad      | 7.2     | Stick    | 55                    | CTS561, CTS561CL, CT561, CTLED566   |
| CTB8172BK | Lithium Ion | 14.4    | Tower    | 55                    | Generic to All 14.4 V MicroLithium Product  |
| CTB8174   | Lithium Ion | 14.4    | Tower    | 70                    | Generic to All 14.4 V MicroLithium Product  |
| CTB8185BK | Lithium Ion | 18      | Slide-On | 55                    | Generic to All 18 V MonsterLithium Product  |
| CTB8187   | Lithium Ion | 18      | Slide-On | 90                    | Generic to All 18 V MonsterLithium Product  |
| CTB4147   | Ni-Cad      | 14.4    | Slide-On | 40                    | CDR4450, CT4110, CT4450, Lights   |
| CTB4187A  | Ni-Cad      | 18      | Slide-On | 40                    | CDR4850, CDR4850A, CDR6850, CGG4850, CT4850, CT4850HO, CT6850, CTRS4850, CTRS6850, Lights |

#### CTB185 18 V 5 Ah Lithium Battery with Side Latch

- 18 V 5 Ah Lithium Ion Battery with a two side button latch mechanism

#### CTB8172BK 14.4 V MicroLithium Battery

- Small, compact lithium battery with twice the run time of the 7.2 V lithium battery
- 2.0 Ah and weighs only 12 oz; fits 14.4 V 761 Series and most 7.2 V 661 Series tools
- Fast 55-minute charge time
- 14.4 V 2.0 Ah high-capacity MicroLithium Battery (29 Wh)
- No memory effect, no self-discharge
- Glass-filled nylon housing for durability

#### CTB8174 14.4 V MicroLithium Battery

- 2.5 Ah and weighs just 12 oz; fits 14.4 V and most 7.2 V 661 Series tools
- Fast 70-minute charge time
- 14.4 V 2.5 Ah high-capacity MicroLithium Battery (36 Wh)
- No memory effect or self-discharge
- Glass-filled nylon housing for durability
- Operates on CTC772, CTC131 and CTC123 chargers

#### CTB8185BK 18 V MonsterLithium Slide-On Battery

- 18 V 4.0 Ah high-capacity lithium battery
- Fast 60-minute charge time
- No self-discharge
- Four-LED fuel gauge indicates battery and charger condition
- Operates on current CTC720 and CTC728 chargers
- No memory effect
- Glass-filled nylon housing for durability

#### CTB8187 18 V MonsterLithium Slide-On Battery

- 18 V 5.0 Ah high-capacity lithium battery (90 Wh)
- Fast 90-minute charge time
- No self-discharge
- Four-LED fuel gauge indicates battery and charger condition
- Operates on current CTC720, CTC123, CTC131 chargers
- No memory effect
- Glass-filled nylon housing for durability

#### CTB4147 14.4 V Ni-Cad Battery

- 14.4 V DC slide-on battery pack for Snap-on® CT4850 Series impact wrenches and CDR4850 Series drills

#### CTB4187A 18 V Slide-On Ni-Cad Battery Pack

- 18 V DC slide-on battery pack for Snap-on® CT4850 Series impact wrenches and CDR4850 Series drills



# CORDLESS: CHARGERS AND BATTERIES



CTC123



CTC620



CTC720



CTC728



CTC772A



CTC131



CTBA418

## Snap-on® Battery Chargers

| Stock No. | Type                                    | Applications   |
|-----------|---|--|
| CTC123    | 14.4 and 18 V Multi-Bay Lithium Charger | CTB7172, CTB8172, CTB8174, CTB7185, CTB8185, CTB8187 |
| CTC596    | 9.6 V Ni-Cad Charger                    | CTB517, CTB5196                                      |
| CTC620    | Dual-Chemistry Charger                  | CTB4145, CTB4147, CTB4185, CTB4187, CTB618, CTB6187  |
| CTC720    | 18 V Lithium Charger                    | CTB7185, CTB8185 and CTB8187                         |
| CTC728    | 12 V DC Lithium Mobile Charger          | CTB7185, CTB8185 and CTB8187                         |
| CTC772A   | 7.2 V/14.4 V Lithium Charger            | CTB6172, CTB7172, CTB8172 and CTB8174                |
| CTC131    | 14.4 and 18 V Dual Bay Charger          | CTB7172, CTB8172, CTB8174, CTB7185, CTB8185, CTB8187 |

Batteries not included

### CTBA418 Slide-On Battery Adaptor

- Adapts the CTB4185 Slide-On Battery to a post-style battery for use in older models of Snap-on® cordless power tools



• Read safety precautions on pages W1 to W4

## CORDLESS: SCREWDRIVER ACCESSORIES



CTEXTSET



CTS561BITSET



CTS561HOLSTR



CTS561CHUCK

### CTS561 Series Screwdriver Accessories

#### CTEXTSET 4 pc Quick-Change Extensions Set

- Includes CTEXT6 and CTEXT12 quick change extensions plus a T15 TORX® bit (1/4" shank) and a PHILLIPS® bit (power groove hex shank)
- Ideal companion to the CTS series screwdrivers where extended reach is needed

#### CTS561BITSET 23 pc 1/4" Drive Quick-Change Bit Set (Blue-Point®)

- For Snap-on® cordless screwdrivers, plus other power drivers
- Quick-change hex saves time changing bits
- Manufactured from industrial-grade tool steel
- Includes (22) bits (all 3" long), plus a 1/4" square drive (2" long)
- Includes PHILLIPS® bits #0, #1, #2; flat tip bits 5/32", 3/16", 7/16", 1/4", 9/32"; TORX® bits T10, T15, T20, T25, T27, T30, T40; hex bits 3/32", 7/64, 1/8", 5/32", 3/16", 7/32" and 1/4"
- Includes a storage case

#### CTS561HOLSTR Holster Bit Set

- Includes PHILLIPS® bits #0, #1, #2; flat tip bits 3/16, 7/32, 1/4"; and TORX® bits T15, T25
- Attaches to a belt to keep the bits close for ready use

#### CTS561CHUCK 1/4" Quick-Change Keyless Drill Chuck

- 1/4" hex shank for fast changeover
- Compact size improves access and visibility of the drilling surface
- 1/4" chuck capacity provides convenience for small jobs
- 1/32–1/4" drill capacity
- Used for light duty, small holes in metal and wood

#### CTEXT12 12" Quick-Change Extension

- For rotary power tools
- Ideal companion to the CTS561 and CTS561CL Series screwdrivers where extended reach is needed
- Accepts all worldwide industrial standards for hex shanks
- Hardened extension directly transfers rotary power without a loss of torque
- Hex design eliminates slippage and optimizes power
- Hex lock mechanism is better than magnet styles and holds the accessories unit until released
- Maximum RPM: 2,500
- Torque rate: 167 in-lb

#### CTEXT6 6" Quick-Change Extension

- For rotary power tools
- Ideal companion to the CTS561 and CTS561CL Series screwdrivers where extended reach is needed
- Accepts all worldwide industrial standards for hex shanks
- Hardened extension directly transfers rotary power without a loss of torque
- Hex design eliminates slippage and optimizes power
- Hex lock mechanism is better than magnet styles and holds the accessories unit until released
- Maximum RPM: 2,500
- Torque rate: 167 in-lb

## ELECTRIC: POLISHER/ENGRAVER



ETB1580B



GA236C

### Polisher

#### ETB1580B 7" Variable-Speed Polisher (Blue-Point®)

- Six-position speed setting allows the user to dial in the desired speed
- Soft-start trigger for increased control
- Push-button spindle lock for quick and easy pad changes
- Polishes and details autos, trucks and boats

### Engravers

#### GA236C Engraver (Blue-Point®)

- Marks all materials
- Includes 3 mm tungsten carbide tip
- Nine-position stroke adjustment to control engraving depth
- Soft-coated housing provides better comfort and handling
- None-position stroke adjustment to control the engraving depth
- Super-smooth action is ideal for precision engraving


#### GA236C1 Tungsten Carbide Tip (Blue-Point®)

- 3 mm tungsten carbide tip

#### GA236-32 Diamond Tip

- Optional heavy-duty tip

# AIR TOOLS



WORLD CLASS POWER, COMFORT AND ACCESSIBILITY. THAT'S WHAT MAKES OUR AIR TOOLS THE GO-TO SOLUTION FOR PROFESSIONALS. IN ADDITION TO PROVIDING OPTIMUM BALANCE AND CONTROL, THEIR COMPACT DESIGN LETS YOU REACH TIGHT SPOTS OTHER AIR TOOLS CAN'T. AND SPORTING THE SNAP-ON® NAMEPLATE, THEY'RE AS RUGGED AND DEPENDABLE AS YOU WOULD EXPECT.

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**YOU CAN FEEL  
THE ADDED  
PRODUCTIVITY  
IN THE AIR.**

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From compact air ratchets that deliver speed and efficiency to heavy-duty impact wrenches that are built tough for large vehicles and equipment, our air tools get the job done. Even in tight spaces, thanks to features like extended reach, angle access and a compact design.

# AIR: QUICK REFERENCE CHART

## Impact Wrenches

| Stock No. | Drive Size, inches (mm) | Maximum Torque, ft-lb (N•m) | Free Speed, RPM      | Blows Per Minute, BPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|-------------------------|-----------------------------|----------------------|-----------------------|---|-----------------------------------|----------------------------|---------------------|-----------------|
| PT1800A   | 1 (25)                  | 1,800 (2,440)               | 6,500                | 800                   | 6.7   | 12.4                              | 103                        | 15                  | 16.1 (7.3)      |
| PT1800AL  | 1 (25)                  | 1,800 (2,440)               | 6,500                | 800                   | 6.7   | 12.4                              | 103                        | 19                  | 17 (7.7)        |
| PT2500    | 1 (25)                  | 2,500 (3,390)               | 4,600                | 800                   | 6.9   | 12.4                              | 103                        | 17-1/8 (433)        | 30.36 (13.76)   |
| PT2500L   | 1 (25)                  | 2,500 (3,390)               | 4,600                | 800                   | 6.9   | 12.4                              | 103                        | 24-3/8 (615)        | 30.36 (13.76)   |
| AT1300B   | 1 (25)                  | 2,000 (2,712)               | 5,000                | —                     | 10.8 (—) [305.82]                               | 12.01                             | 108.9                      | 13.59 (345)         | 23.18 (10.50)   |
| AT1300BL† | 1 (25)                  | 2,000 (2,712)               | 5,000                | —                     | 10.8 (—) [305.82]                               | 10.66                             | 108.9                      | 19.53 (496)         | 26.90 (12.20)   |
| MG1250†   | 3/4 (19)                | 1,250 (1,694)               | 6,200                | 1,050                 | 6.4 (46) [181]                                  | 10.38                             | 99.8                       | 8 (203)             | 8.1 (3.6)       |
| MG1250L†  | 3/4 (19)                | 1,250 (1,694)               | 6,200                | 1,050                 | 6.4 (46) [181]                                  | 10.38                             | 99.8                       | 10.5 (266)          | 8.6 (3.99)      |
| MG1250XL† | 3/4 (19)                | 1,250 (1,694)               | 6,200                | 1,050                 | 6.4 (46) [181]                                  | 10.38                             | 99.8                       | 14.5 (368)          | 9.5 (4.1)       |
| MG1250P†  | 3/4 (19)                | 1,250 (1,694)               | 6,200                | 1,050                 | 6.4 (46) [181]                                  | 10.38                             | 99.8                       | 8 (203)             | 8.1 (3.6)       |
| AT670†    | 3/4 (19)                | 1,050 (1,423)               | 6,700 (F), 6,900 (R) | 1,050                 | 5.6 (40) [159]                                  | 2.44                              | 99                         | 8.5 (215)           | 7.5 (3.44)      |
| MG725A    | 1/2 (13)                | 810 (1,098)                 | 9,800                | 1,270                 | 5.2 (37) [147]                                  | 5.1                               | 102.5                      | 7.7 (194)           | 4.8 (2.2)       |
| PT850     | 1/2 (13)                | 1,190 (1,613)               | 9,200                | 1,270                 | 4.1   | 8.2                               | 98.1                       | 7.2 (18.3)          | 4.2 (1.9)       |
| PT850L    | 1/2                     | 810 (1,098)                 | 9,200                | 1,270                 | 4.1   | 8.2                               | 98.1                       | 7.2 (18.3)          | 4.2 (1.9)       |
| PT850P    | 1/2                     | —                           | 9,200                | 1,270                 | 4.1   | 8.2                               | 98.1                       | 7.2 (18.3)          | 4.2 (1.9)       |
| MG3255†   | 1/2 (13)                | 325 (440)                   | 10,700               | 1,400                 | 4 (28) [113]                                    | 4.5                               | 99.1                       | 6.1 (155)           | 2.8 (1.3)       |
| MG3255L†  | 1/2 (13)                | 325 (440)                   | 10,700               | 1,400                 | 4 (28) [113]                                    | 4.5                               | 99.1                       | 7.6 (193)           | 2.9 (1.3)       |
| MG3255P†  | 1/2 (13)                | 325 (440)                   | 10,700               | 1,400                 | 4 (28) [113]                                    | 4.5                               | 99.1                       | 6.1 (162)           | 2.8 (1.3)       |
| MG3255LP† | 1/2 (13)                | 325 (440)                   | 10,700               | 1,400                 | 4 (28) [113]                                    | 99.1                              | 4.5                        | 7.6 (193)           | 2.9 (1.3)       |
| AT5500†   | 1/2 (13)                | 550 (745)                   | 7,400                | 1,200                 | 4.2 (30) [118.9]                                | 4.0                               | 94                         | 7.9 (20)            | 6.4 (2.9)       |
| AT5500T   | 1/2 (13)                | 550 (745)                   | 9,000                | 1,200                 | 4.2 (30) [119]                                  | 4.0                               | 94                         | 5.9 (150)           | 5.0 (2.29)      |
| AT570†    | 1/2 (13)                | 570 (773)                   | 6,900 (F), 7,000 (R) | 1,050                 | 5.0 (36) [142] (F), 5.3 (38) [150] (R)          | 6.08                              | 95                         | 7.24 (184)          | 4.08 (1.87)     |
| AT2550    | 1/2 (13)                | 300 (406)                   | 10,000               | 1,500                 | 4.3 (—) [121.76]                                | —                                 | 102                        | 4.29 (109)          | 2.96 (1.34)     |
| AT1050    | 1/2 (13)                | 190 (257)                   | 4,150                | 1,950                 | 3.7 (—) [104.77]                                | 8.2                               | 94.4                       | 13.15 (334)         | 3.47 (1.574)    |
| MG325†    | 3/8 (10)                | 325 (440)                   | 10,700               | 1,400                 | 4 (28) [113]                                    | 4.5                               | 99.1                       | 6.1 (155)           | 2.8 (1.3)       |
| MG325P†   | 3/8 (10)                | 325 (440)                   | 10,700               | 1,400                 | 4 (28) [113]                                    | 4.5                               | 99.1                       | 6.1 (155)           | 2.8 (1.3)       |
| AT370†    | 3/8 (10)                | 320 (434)                   | 9,000 (F), 9,500 (R) | 1,050                 | 4.4 (326) [125] (F), 4.7 (34) [133] (R)         | 3.25                              | 92                         | 6.3 (160)           | 2.62 (1.19)     |
| AT380A†   | 3/8 (10)                | 175 (230)                   | 8,700                | 1,680                 | 3.9 (28) [111]                                  | 3.5                               | 94                         | 6.5 (165)           | 3.0 (1.36)      |
| AT1038    | 3/8 (10)                | 190 (257)                   | 4,150                | 1,950                 | 3.7 (—) [104.77]                                | 8.2                               | 94.4                       | 13.15 (334)         | 3.47 (1.574)    |
| AT2538    | 3/8 (10)                | 275 (373)                   | 9,000                | 1,500                 | 4.3 (—)   | 8.6                               | 100                        | 4.29 (109)          | 2.96 (1.34)     |
| AT351†    | 3/8 (10)                | 175 (237)                   | 9,700                | 1,200                 | 2.5 (18) [71]                                   | 3.09                              | 96.6                       | 7.6 (194)           | 2.5 (1.2)       |
| AT235MCA† | 1/4 (6)                 | 25 (34)                     | 13,000               | 2,900                 | 1.67 (12) [47]                                  | <2.5                              | 95.1                       | 6.2 (158)           | 1.4 (.64)       |

† C E

## Air Ratchets

| Stock No. | Drive Size, inches (mm) | Maximum Torque, ft-lb (N•m) | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|-------------------------|-----------------------------|-----------------|---|-----------------------------------|----------------------------|---------------------|-----------------|
| AT705B†   | 1/2 (13)                | 5–50 (6–68)                 | 150             | 3.0 (22) [85]                                   | 8.7                               | 89                         | 10.7 (273)          | 2.5 (1.14)      |
| FAR2505†  | 3/8 (10)                | 0–35 (0–47)                 | 225             | 1.7 (11) [48]                                   | 2.5                               | 84                         | 7.8 (198)           | 1.4 (.6)        |
| PTR72     | 3/8 (10)                | 70 (95)                     | 275             | 4.5 (32) [127]                                  | 5.2                               | 92.9                       | 12.1 (308)          | 2.9 (1.3)       |
| PTR2505   | 3/8 (10)                | 0–35 (0–47)                 | 225             | 1.7 (11) [48]                                   | 2.5                               | 84                         | 7.8 (197)           | 1.4 (.6)        |
| AT700F†   | 3/8 (10)                | 45 (61)                     | 165             | 3.0 (22) [85]                                   | 8.7                               | 89                         | 10.1 (257)          | 2.5 (1.14)      |
| FAR2500†  | 1/4 (6)                 | 0–35 (0–47)                 | 225             | 1.7 (11) [48]                                   | 2.5                               | 84                         | 7.8 (197)           | 1.4 (.6)        |
| AT200D†   | 1/4 (6)                 | 25 (34)                     | 230             | 1.4 (10) [40]                                   | 3.3                               | 85                         | 8.7 (222)           | 1.1 (.50)       |
| AT204A†   | 1/4 (6)                 | 30 (40.6)                   | 350             | 3.5 (25) [99]                                   | 3.6                               | 94                         | 5.12 (130)          | 1.05 (.48)      |
| PTR2500   | 1/4 (6)                 | 0–35 (0–47)                 | 225             | 1.7 (11) [48]                                   | 2.5                               | 84                         | 7.8 (197)           | 1.4 (.6)        |

† C E

## Drills

| Stock No. | Chuck Size, inches (mm) | Rated Power, HP (kW) | Torque Range, in-lb (N•m) | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Pressure Level, dB(A) | Length, inches (mm) | Weight, lb (kg) |
|-----------|-------------------------|----------------------|---------------------------|-----------------|---|-----------------------------------|-----------------------------|---------------------|-----------------|
| AT184†    | 5/16 (8)                | 0.32 (.65)           | —                         | 0–1,000/0–1,800 | 8.4 (60) [238]                                  | <1.0                              | 84                          | 7.9 (201)           | 3.1 (1.4)       |
| PDR5000A† | 1/2 (13)                | 0.45 (.33)           | 0–300 (0–34)              | 450             | 3.8 (27) [108]                                  | 0.9                               | 82.6                        | 8.7 (222)           | 3 (1.3)         |
| PDR5001   | 1/2 (13)                | .45 (.33)            | 0–300 (0–340)             | 450             | 3.8 (27) [108]                                  | .9                                | 80                          | 8.7 (222)           | 3 (1.3)         |
| PDR3000A† | 3/8 (10)                | 0.45 (.33)           | 0–50 (0–6.0)              | 2,500           | 3.5 (25) [99]                                   | 3.0                               | 79.7                        | 7 (178)             | 2.2 (1)         |
| PDR3001   | 3/8" (10)               | .45 (.33)            | 0–50 (0–6.0)              | 2,500           | 3.8 (27) [100]                                  | 3.5                               | 95.2                        | 7 (178)             | 2.2 (1)         |
| AT3000†   | 3/8 (10)                | 0.45 (.33)           | 0–40 (0–4.5)              | 1,675           | 3.5 (25) [95]                                   | <2.5                              | 82                          | 7.6 (194)           | 3.2 (1.4)       |
| AT811†    | 3/8 (10)                | 0.45 (.33)           | 0–55 (0–6)                | 1,320           | 3.4 (24) [95]                                   | <.8                               | 110                         | 8.2 (208)           | 2.2 (1)         |
| AT801MCA† | 1/4 (6)                 | 0.25 (.19)           | 0–18 (0–2.0)              | 1,800           | 1.9 (13.6) [53.8]                               | <2.5                              | 96.4                        | 7.2 (183)           | 1.5 (0.68)      |

† C E

## Grinders (Blue-Point®)

| Stock No. | Disc Size, Dia., inches (mm) | Rated Power, HP (kW) | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|------------------------------|----------------------|-----------------|---|-----------------------------------|----------------------------|---------------------|-----------------|
| AT415B* † | 4-1/2 (102)                  | 0.86 (.64)           | 12,000          | 3.2 (23) [91]                                   | 5.1                               | 87                         | 10 (254)            | 4.2 (1.9)       |

Blue-Point®  
† C €

## Heavy-Duty Air Hammers (Blue-Point®)

| Stock No. | Bore Diameter, inches (mm) | Blows Per Minute, BPM | Piston Stroke, inches (mm) | Shank Opening, inches (mm) | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Pressure Level, dB(A) | Length, inches (mm) | Weight, lb (kg) |
|-----------|----------------------------|-----------------------|----------------------------|----------------------------|---|-----------------------------------|-----------------------------|---------------------|-----------------|
| PH3050BR  | 3/4 (19)                   | 2,500                 | 3 (76)                     | 0.401 (10.1)               | 2.1 (14) [59]                                   | 2.8                               | 91.4                        | 9.0 (228)           | 5.9 (2.7)       |
| AT2050 †  | 3/4 (19)                   | 3,400                 | 2.75 (70)                  | 0.401 (10.1)               | 2.5 (18) [71]                                   | 8.6                               | 99                          | 7.4 (187)           | 4.6 (2.1)       |

† C €

## Die Grinders

| Stock No.  | Collet Size, inches | Rated Power, HP (kW) | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|------------|---------------------|----------------------|-----------------|---|-----------------------------------|----------------------------|---------------------|-----------------|
| PTGR100 ‡  | 1/4                 | 0.3 (.2)             | 25,000          | 1.7 (11) [48]                                   | 3.2                               | 83.3                       | 6.1 (155)           | 1 (0.4)         |
| PTGR110 ‡  | 1/4                 | 0.3 (.2)             | 25,000          | 1.7 (11) [48]                                   | 6.3                               | 85.9                       | 5.75 (146)          | 1.2 (0.5)       |
| PTGR200    | 1/4                 | .5 (.3)              | 23,000          | 3.2 (23)  | 2                                 | 85.1                       | 6.9 (175)           | 1.2 (.5)        |
| PTGR205    | 1/4                 | .5 (.3)              | 23,000          | 3.2 (23)  | 3                                 | 85.9                       | 10.9 (276)          | 2.1 (.95)       |
| PTGR210    | 1/4                 | .5 (.3)              | 23,000          | 3.2 (23)  | 5.2                               | 86                         | 64 (162)            | 1.4 (.63)       |
| AT115 †    | 1/4                 | 0.45 (.33)           | 22,000          | 4 (29) [113]                                    | <2.5                              | 95                         | 6.5 (165)           | 1.3 (.61)       |
| AT105 †    | 1/4                 | 0.45 (.33)           | 22,000          | 4 (29) [113]                                    | <2.5                              | 102                        | 6.5 (165)           | 1.3 (.61)       |
| AT109 †    | 1/4                 | 0.2 (.15)            | 20,000          | 2.1 (15) [59]                                   | 2.5                               | 93                         | 5.5 (140)           | 1.1 (.50)       |
| AT118 †    | 1/4                 | 0.2 (.15)            | 20,000          | 4.0 (29) [113]                                  | 2.5                               | 93                         | 5.5 (140)           | 1.1 (.50)       |
| AT119 †    | 1/4                 | 0.2 (.15)            | 20,000          | 3 (15) [59]                                     | <6.92                             | 100                        | 1.1 (50)            | 6.81 (173)      |
| AT116 †    | 1/4                 | 0.2 (.15)            | 20,000          | 3 (15) [59]                                     | 3                                 | 100                        | 6.5 (165)           | 1.1 (50)        |
| AT120L †   | 1/4 (6.35)          | 0.22 (.164)          | 23,000          | 3 (22) [85]                                     | 1.83                              | 77                         | 11.02 (280)         | 1.45 (.66)      |
| AT120LRA † | 1/4 (6.35)          | 0.45 (.335)          | 18,000          | 3.3 (24) [93.4]                                 | 1.83                              | 79                         | 11.25 (285)         | 1.63 (.74)      |
| AT1070A †  | 1/8                 | —                    | 75,000          | 1 (7) [28]                                      | 2.0                               | 72                         | 5.3 (135)           | .55 (0.25)      |
| AT1070RA † | 1/8                 | —                    | 75,000          | 1 (7) [28]                                      | 2.0                               | 72                         | 5.9 (150)           | .46 (0.21)      |

\*See page 562 for AT109DGK Die Grinder Kit specifications.

† C €

## Orbital and Geared Sanders

| Stock No.  | Pad/Disc Size, Dia., inches (mm) | Style                 | Rated Power, HP (kW) | Free Speed, RPM | Spindle Thread, inches | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|------------|----------------------------------|-----------------------|----------------------|-----------------|------------------------|---|-----------------------------------|----------------------------|---------------------|-----------------|
| PSO4525    | 5 (127)                          | Orbital               | .25 (.19)            | 12,000          | 1/4"-20                | 2 (14)  | 2.3                               | 75.3                       | 5 (127)             | 1.7 (.77)       |
| PSO4625    | 6 (152)                          | Orbital               | .25 (.19)            | 12,000          | 1/4"-20                | 2 (14)  | 2.3                               | 75.3                       | 6 (152)             | 2.2 (1)         |
| PSOF4625 † | 6 (152)                          | Orbital Finishing     | .25 (.19)            | 12,000          | 1/4"-20                | 2 (14)  | 2.1                               | 74.9                       | 6 (152)             | 2.4 (1.1)       |
| PSOF4325 † | 3                                | Orbital Finishing     | .25 (.19)            | 12,000          | 1/4"-20                | 2 (14)  | 2.1                               | 74.9                       | 3 (76)              | 1.44 (.65)      |
| AT408 †    | 8 (203)                          | Geared (NV)           | 0.5 (.37)            | 850             | 5/16"-24               | 5 (36) [142]                                    | 3.7                               | 87                         | 11 (281)            | 4.8 (2.18)      |
| AT411A †   | 6 (152)                          | Dual Action           | 0.5 (.37)            | 10,000          | 5/16"-18 UNC           | 5 (36) [142]                                    | 3.7                               | 79                         | 8 (203)             | 4.7 (2.14)      |
| AT425R †   | 5 (127)                          | Reversible Hi-Speed   | 0.45 (.33)           | 13,000          | 7/16"-20 UNC           | 4.3 (31) [122]                                  | <0.8                              | 93                         | 5.3 (135)           | 2.8 (1.28)      |
| AT406C †   | 6 (152)                          | Orbital               | .25 (.19)            | 12,000          | 5/16"-24               | 2.5 (18) [71]                                   | 2.8                               | 85                         | 8.6 (21.9)          | 1.5 (0.7)       |
| AT475A †   | 2-3/4 x 17-1/2                   | Inline                | —                    | 1,800           | —                      | 2.3 (17) [65]                                   | 14.9                              | 87                         | 16 (406)            | 6.8 (3.09)      |
| AT401MCA † | 3 (76)                           | Micro Surface Prep    | 0.25 (.19)           | 15,000          | 1/4"-20                | 2.1 (15) [59]                                   | <2.5                              | 84                         | 4.7 (119)           | 0.97 (0.44)     |
| AT402MCA † | 3 (76)                           | Micro Sander          | 0.25 (.19)           | 15,000          | 5/16"-24 UNF           | 2.1 (15) [59]                                   | <2.5                              | 84                         | 5.2 (133)           | 1.1 (.50)       |
| AT403MCA † | 3 (76.2)                         | Micro Polisher        | 0.25 (.19)           | 6,000           | 5/16"-24 UNF           | 2.2 (16) [62]                                   | <2.5                              | 86                         | 5.6 (143)           | 1.3 (0.60)      |
| AT450DP †  | 7 (177)                          | Vertical Polisher     | 0.7                  | 2,500           | 5/8-11                 | 3.6   | 9                                 | —                          | 16 (406)            | 4.95 (2.25)     |
| PTGR280 ‡  | —                                | Material Removal Tool | 0.45 (.33)           | 3,500           | —                      | 4 (28) [113]                                    | 2.8                               | 85                         | 12 (304)            | 2.4 (1.09)      |
| PSG4645    | 6 (152)                          | Geared (NV)           | 0.42 (.33)           | 1,000           | 3/8                    | 3 (21.7) [85]                                   | 5.9                               | 80                         | 11 (281)            | 3.7 (1.70)      |
| PSG4645V   | 6 (152)                          | Geared (V)            | 0.42 (.33)           | 1,000           | 3/8                    | 3 (21.7) [85]                                   | 5.9                               | 80                         | 11 (281)            | 3.7 (1.70)      |
| PSG4845    | 8 (203)                          | Geared (NV)           | 0.42 (.33)           | 1,000           | 3/8                    | 3 (21.7) [85]                                   | 5.9                               | 80                         | 11 (281)            | 4 (1.82)        |
| PSG4845V   | 8 (203)                          | Geared (V)            | 0.42 (.33)           | 1,000           | 3/8                    | 3 (21.7) [85]                                   | 5.9                               | 80                         | 11 (281)            | 4 (1.82)        |
| PSDF4600   | 6 (152)                          | Dual-Function         | —                    | 1200            | —                      | 3 (22) [85]                                     | 4.7                               | —                          | 11 (281)            | 3.7 (1.70)      |
| PSDF4600V  | 6 (152)                          | Dual-Function         | —                    | 1200            | —                      | 3 (22) [85]                                     | 4.7                               | —                          | 11 (281)            | 3.7 (1.70)      |

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- † These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read and follow safety messages for each type of Air Tool on the following pages and the safety precautions on pages W1 to W4

## AIR: QUICK REFERENCE

### Cut-Off Tools

| Stock No. | Wheel Size, inches (mm) | Rated Power, HP (kW) | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|-------------------------|----------------------|-----------------|---|-----------------------------------|----------------------------|---------------------|-----------------|
| PTC430    | 3 (76)                  | 1.0 (.75)            | 25,000          | 4.17 (23) [90]                                  | 6.92                              | 87                         | 7.5 (190)           | 1.9 (.86)       |
| PTC490    | 4 (102)                 | 1.0 (0.75)           | 12,000          | 4.17 (23) [90]                                  | 3.41                              | 87.8                       | 9.3 (236)           | 3 (1.3)         |
| AT154RA*  | 4 (102)                 | 0.7 (0.5)            | 13,000          | 3.1 (22) [87]                                   | 3.07                              | 85                         | 14.3 (365)          | 3.3 (1.5)       |
| AT157R*   | 3 (76)                  | 0.45 (.33)           | 20,000          | 3.5 (25) [99]                                   | <3.8                              | 100                        | 7.3 (185)           | 1.9 (.86)       |
| AT153     | 3 (76)                  | 0.5 (0.37)           | 17,000          | 3.5 (24) [99.1]                                 | <2.86                             | 85                         | 7.3 (185)           | 3.3 (1.5)       |

\*Blue-Point®  
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### Reciprocating Saws

| Stock No. | Free Speed, SPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|-----------------|---|-----------------------------------|----------------------------|---------------------|-----------------|
| PTRS1000  | 10,000          | 1.0 (8.5) [—]                                   | 2.99                              | 87.1                       | 7.9 (203)           | 1.4 (0.67)      |
| AT192A    | 11,000          | 1.0 (7) [28]                                    | 10.1                              | 94.0                       | 9.3 (235)           | 1.75 (0.80)     |
| AT194A    | 8,250           | 0.7 (5) [20]                                    | <6.6                              | 87                         | 6.7 (175)           | 1 (0.45)        |

CE

## AIR: 1" DRIVE IMPACT WRENCHES



PT1800A



PT2500



8" Long Anvil (L)

### 1" Drive Heavy-Duty Impact Wrenches

| Specifications                     | PT1800A                    | PT1800AL                   | PT2500                     | PT2500L                    |
|------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Drive Size, inches (mm)            | 1 (25)                     | 1 (25)                     | 1 (25)                     | 1 (25)                     |
| Maximum Torque, ft-lb (N•m)        | 1,800 (2,440)              | 1,800 (2,440)              | 2,500 (3,390)              | 2,500 (3,390)              |
| Free Speed, RPM                    | 6,500                      | 6,500                      | 4,600                      | 4,600                      |
| Blows Per Minute                   | 800                        | 800                        | 800                        | 800                        |
| Extended Anvil Length, inches (mm) | —                          | 6 (152)                    | —                          | 8 (203)                    |
| Anvil Type                         | Friction Ring w/ Thru Hole | Friction Ring w/ Thru Hole | Friction Ring w/ Thru Hole | Friction Ring w/ Thru Hole |
| Air Consumption, CFM               | 6.7                        | 6.7                        | 6.9                        | 6.9                        |
| Air Inlet Thread Size              | 1/2" NPT                   | 1/2" NPT                   | 1/2" NPT                   | 1/2" NPT                   |
| Recommended Hose Size, inches (mm) | 1/2 (13)                   | 1/2 (13)                   | 1/2 (13)                   | 1/2 (13)                   |
| Vibration Level, m/s <sup>2</sup>  | 12.4                       | 12.4                       | 12.4                       | 12.4                       |
| Sound Level Pressure, dB(A)        | 103                        | 103                        | 103                        | 103                        |
| Length, inches (mm)                | 15                         | 19                         | 17-1/8 (433)               | 24-3/8 (615)               |
| Weight, lb (kg)                    | 16.1 (7.3)                 | 17 (7.7)                   | 30.36 (13.76)              | 30.36 (13.76)              |

Wrench suffix: L = Long anvil. Standard anvil for applications where frequent socket change is required. Long anvil for tight applications that require extra reach.

#### PT1800A 1" Heavy-Duty Impact Wrench

- Lightweight design (16 lb)
- Powerful 1,800 ft-lb of torque output
- Three-speed forward and full-power reverse
- Padded ergonomic side handle for comfortable use
- Rubber nose bumper for tool durability and work piece protection
- Side-directed (reversible) exhaust for cleaner work
- Hard-hitting and durable twin hammer impact mechanism

#### PT1800AL 1" Heavy-Duty Long Anvil Impact Wrench

#### PT2500 1" Heavy-Duty Impact Wrench

- Twin hammer for durability
- Powerful 2,500 ft-lb of torque output
- 3-speed forward and full power reverse
- Padded ergonomic side handle for comfortable use
- Aluminum housing

#### PT2500L 1" Heavy-Duty 8" Long Anvil Impact Wrench

## AIR: 3/4" DRIVE IMPACT WRENCHES (Blue-Point®)

### 1" Drive Heavy-Duty (Blue-Point®)

EU/CE—DE, ES, FR, IT, NL, UK (all models)

#### 1" Drive Impact Wrench (Blue-Point®)

- Durable and powerful pin-less clutch mechanism
- Ergonomic housing design with a steel protector ring
- High-performance motor maximizes output torque
- Side-mounted handle for better operator control
- Optional internal/external trigger set
- Three forward and three reverse speeds
- One year warranty

| Specifications                                  | AT1300B                   | AT1300BL                  |
|---|---------------------------|---------------------------|
| Drive Size, inches (mm)                         | 1 (25)                    | 1 (25)                    |
| Maximum Torque, ft-lb (N•m)                     | 2,000 (2,712)             | 2,000 (2,712)             |
| Free Speed, RPM                                 | 5,000                     | 5,000                     |
| Anvil Type                                      | Friction Ring w/Thru Hole | Friction Ring w/Thru Hole |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 10.8 (—) [305.82]         | 10.8 (—) [305.82]         |
| Air Inlet Thread Size                           | 1/2" - 14 NPT             | 1/2" - 14 NPT             |
| Recommended Hose Size, inches (mm)              | 1/2 (13)                  | 1/2 (13)                  |
| Vibration Level, m/s <sup>2</sup>               | 12.01                     | 10.66                     |
| Sound Level dB(A) Pressure                      | 108.9                     | 108.9                     |
| Length, inches (mm)                             | 13.59 (345)               | 19.53 (496)               |
| Weight, lb (kg)                                 | 23.18 (10.50)             | 26.90 (12.20)             |

Impact wrench suffix: L = Long anvil. Standard anvil for applications where frequent socket change is required. Long anvil for tight applications that require extra reach.

CE

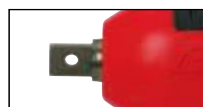


AT1300B



AT1300BL

## AIR: 3/4" DRIVE IMPACT WRENCHES



Thru-Hole Anvil (P)



3" Long Anvil (L)



6" Extra-Long Anvil (XL)



MG1250

### 3/4" Drive Super-Duty

EU/CE—DE, ES, FR, IT, NL, UK (all models)

| Specifications                                  | MG1250         |
|---|----------------|
| Drive Size, inches (mm)                         | 3/4 (19)       |
| Maximum Torque, ft-lb (N•m)                     | 1,250 (1,694)  |
| Free Speed, RPM                                 | 6,200          |
| Blows Per Minute, BPM                           | 1,050          |
| Anvil Type                                      | Friction Ring  |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 6.4 (46) [181] |
| Air Inlet Thread Size                           | 3/8"-18 NPT    |
| Recommended Hose Size, inches (mm)              | 3/8 (10)       |
| Vibration Level, m/s <sup>2</sup>               | 10.38          |
| Sound Level dB(A) Pressure                      | 99.8           |
| Length, inches (mm)                             | 8 (203)        |
| Weight, lb (kg)                                 | 8.1 (3.6)      |
| Vinyl Boot                                      | MG1200BOOT     |

Impact wrench suffix: L = Long anvil. Standard anvil for applications where frequent socket change is required. Long anvil for tight applications that require extra reach.

CE

#### 3/4" Drive Heavy-Duty Air Impact Wrench

- 1,250 ft-lb of torque
- Six-vane rotor for faster motor start-up
- Twin-hammer impact mechanism and sealed-in oil bath lubrication provide durability and a longer tool life
- Lightweight one-piece housing cuts tool weight to a mere 8.1 lb for superior control and less user fatigue
- Anvil stop feature prevents the anvil from throwing sockets and fasteners after releasing the trigger
- One-handed reverse button for easy operation
- Two year warranty

#### MG1250L 3/4" Drive Heavy-Duty Long Anvil

#### Magnesium Air Impact Wrench

#### MG1250XL 3/4" Drive Heavy-Duty Extra-Long Anvil

#### Magnesium Air Impact Wrench

#### MG1250P 3/4" Drive Heavy-Duty Pinned Anvil

#### Magnesium Air Impact Wrench

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

## AIR: 3/4" DRIVE IMPACT WRENCHES (Blue-Point®)



AT670



6" Long Anvil (L)

### 3/4" Drive Heavy-Duty (Blue-Point®)

| Specifications                                  | AT670                |
|---|----------------------|
| Drive Size, inches (mm)                         | 3/4 (19)             |
| Maximum Torque, ft-lb (N•m)                     | 1,050 (1,423)        |
| Free Speed, RPM                                 | 6,700 (F), 6,900 (R) |
| Blows Per Minute, BPM                           | 1,050                |
| Anvil Type                                      | Friction Ring        |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 5.6 (40) [159]       |
| Air Inlet Thread Size                           | 3/8"-18 NPT          |
| Recommended Hose Size, inches (mm)              | 3/8 (10) ID min.     |
| Vibration Level, m/s <sup>2</sup>               | 2.44                 |
| Sound Level dB(A) Pressure                      | 99                   |
| Length, inches (mm)                             | 8.5 (215)            |
| Weight, lb (kg)                                 | 7.5 (3.44)           |

Impact wrench suffix: L = Long anvil. Standard anvil for applications where frequent socket change is required. Long anvil for tight applications that require extra reach.

CE

#### AT670 3/4" Drive Impact Wrench (Blue-Point®)

- Lightweight composite housing with an aluminum nose
- Three-position thumb-operated forward/reverse lever
- Exhaust is released through the bottom of the handle, away from the work area
- Twin-hammer mechanism

## AIR: 1/2" DRIVE IMPACT WRENCHES



MG725A

#### Colors Available



Red Green Hi-Viz  
G HV

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### 1/2" Drive Heavy-Duty Impact Wrench

Snap-on's most powerful impact wrenches

EU/CE—DE, ES, FR, IT, NL, UK (all models)

| Specifications                                  | MG725A         |
|---|----------------|
| Drive Size, inches (mm)                         | 1/2 (13)       |
| Maximum Torque, ft-lb (N•m)                     | 810 (1,098)    |
| Free Speed, RPM                                 | 9,800          |
| Blows Per Minute, BPM                           | 1,270          |
| Anvil Type                                      | Friction Ring  |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 5.2 (37) [147] |
| Air Inlet Thread Size                           | 1/4"-18 NPT    |
| Recommended Hose Size, inches (mm)              | 3/8 (10)       |
| Vibration Level, m/s <sup>2</sup>               | 5.1            |
| Sound Level dB(A) Pressure                      | 102.5          |
| Length, inches (mm)                             | 7.7 (194)      |
| Weight, lb (kg)                                 | 4.8 (2.2)      |
| Vinyl Boot                                      | MG725BOOT      |

#### MG725A 1/2" Drive Heavy-Duty Air Impact Wrench

- 810 ft-lb of working torque
- Faster motor start-up and greater performance with more torque
- Balanced design for superior control with less fatigue
- Patented cushion grip reduces vibration
- Patented tip valve trigger provides greater tool control
- Anvil stops with release of the trigger to prevent throwing of fasteners
- Cushion-grip trigger button delivers improved comfort and control
- Easy turn regulator for convenient speed control
- Weighs 4.8 lb (2.2 kg)
- Two-year warranty



# AIR: 1/2" DRIVE IMPACT WRENCHES

## 1/2" Drive Heavy-Duty Impact Wrench

Snap-on's most powerful impact wrenches  
EU/CE—DE, ES, FR, IT, NL, UK (all models)

| Specifications                       | PT850         |
|--------------------------------------|---------------|
| Drive Size, inches (mm)              | 1/2 (13)      |
| Maximum Torque, ft-lb (N•m)          | 1,190 (1,613) |
| RPM Free Speed                       | 9,200         |
| Blows Per Minute                     | 1,270         |
| Air Consumption Working, CFM         | 4.1           |
| Anvil Type                           | Friction Ring |
| Air Inlet Thread Size                | 1/4"-18 NPT   |
| Air Supply Hose Size, inches (mm) ID | 3/8 (9.5)     |
| Sound Power Level (A), dB            | 109.7         |
| Vibration Level, m/s <sup>2</sup>    | 8.2           |
| Length, inches (mm)                  | 7.2 (18.3)    |
| Weight, lb (kg)                      | 4.2 (1.9)     |

Impact wrench suffix: L = Long anvil. Standard anvil for applications where frequent socket change is required. Long anvil for tight applications that require extra reach.

### PT850 1/2" Drive Air Impact Wrench

- 1,190 ft-lb of bolt breakaway torque
- 1,270 BPM
- 9,200 RPM free speed
- Cushion grip handle
- Slow anvil start-up
- Balanced ergonomic design
- One-handed forward/reverse bar
- Large dial-type regulator knob



PT850

#### Colors Available



|              | Red | Green | Hi-Viz |
|--------------|-----|-------|--------|
|              | G   | HV    |        |
| Pinned Anvil | P   | PG    | PHV    |
| Long Anvil   | L   | LG    | LHV    |
| Hard Handle  | H   | HG    | HHV    |

ADD SUFFIX TO STOCK NUMBER  
FOR SPECIAL COLORS

- Forged aircraft-grade 7050 aluminum nose
- Forged anvil, frame and hammers for a long tool life
- 810 ft-lb of torque

### PT850L 1/2" Drive Air Impact (Long Anvil)

### PT850P 1/2" Drive Air Impact (Pinned Anvil)

### PT850H 1/2" Drive Air Impact with Hard Handle

## 1/2" Drive Impact Wrenches

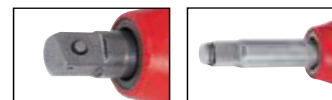
| Specifications                                  | MG3255        |
|---|---------------|
| Drive Size, inches (mm)                         | 1/2 (13)      |
| Maximum Torque, ft-lb (N•m)                     | 325 (440)     |
| Free Speed, RPM                                 | 10,700        |
| Blows Per Minute, BPM                           | 1,400         |
| Anvil Type                                      | Friction Ring |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4 (28) [113]  |
| Air Inlet Thread Size                           | 1/4"-18 NPT   |
| Recommended Hose Size, inches (mm)              | 3/8 (10)      |
| Vibration Level, m/s <sup>2</sup>               | 4.5           |
| Sound Pressure Level, dB(A)                     | 99.1          |
| Length, inches (mm)                             | 6.1 (155)     |
| Weight, lb (kg)                                 | 2.8 (1.3)     |
| Vinyl Boot                                      | MG3255BOOT    |
| Warranty  | 2 Year        |

### MG3255 1/2" Drive Air Impact Wrench

- Compact size; great for working in restricted access areas
- Same features as MG325, except for a 1/2" drive anvil
- Gets the job done faster with less user fatigue
- Balanced and lightweight; 1 pc machined magnesium housing
- 425 ft-lb of bolt breakaway torque
- High torque to remove stubborn fasteners
- 10,700 RPM
- Superior control
- Faster bolt removal
- Anvil stop feature



MG3255



Pinned Anvil (P)

Long Anvil (L)



Long Pinned Anvil (LP)

- Slim-style nose
- Patented field-replaceable cushion grip
- Continuous oil bath lubrication
- 8-vane rotor and twin hammer impact mechanism
- Protective boot and muffler kit included
- One-handed forward/reverse lever and cushion grip
- 325 ft-lb of torque output to remove stubborn fasteners
- Weighs 2.8 lb

### MG3255L 1/2" Drive Long Anvil Air Impact Wrench

### MG3255LP 1/2" Drive Long Pinned Anvil Air Impact Wrench

### MG3255P 1/2" Drive Pinned Anvil Air Impact Wrench



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

**AIR: 1/2" DRIVE IMPACT WRENCHES (Blue-Point®)**



**AT570**



**AT5500**



**AT5500T**

**1/2" Drive Impact Wrench (Blue-Point®)**

EU/CE – DE, ES, FR, IT, NL, UK (all models)

| Specifications                                  | AT5500 †         | AT570 †                                | AT5500T        |
|---|------------------|--|----------------|
| Drive Size, inches (mm)                         | 1/2 (13)         | 1/2 (13)                               | 1/2 (13)       |
| Maximum Torque, ft-lb (N•m)                     | 550 (745)        | 570 (773)                              | 550 (745)      |
| Free Speed, RPM                                 | 7,400            | 6,900 (F), 7,000 (R)                   | 9,000          |
| Blows Per Minute, BPM                           | 1,200            | 1,050                                  | 1,200          |
| Anvil Type                                      | Friction Ring    | Friction Ring                          | Friction Ring  |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4.2 (30) [118.9] | 5.0 (36) [142] (F), 5.3 (38) [150] (R) | 4.2 (30) [119] |
| Air Inlet Thread Size                           | 1/4"-18 NPT      | 1/4"-18 NPT                            | 1/4"-18 NPT    |
| Recommended Hose Size, inches (mm)              | 3/8 (10)         | 3/8 (10)                               | 3/8 (10)       |
| Vibration Level, m/s <sup>2</sup>               | 4.0              | 95                                     | 4.0            |
| Sound Level dB(A) Pressure                      | 94               | 6.08                                   | 94             |
| Length, inches (mm)                             | 7.9 (20)         | 7.24 (184)                             | 5.9 (150)      |
| Weight, lb (kg)                                 | 6.4 (2.9)        | 4.08 (1.87)                            | 5.0 (2.29)     |
| Vinyl Boot                                      | AT5500BOOT       | AT570BOOT                              | AT5500TBOOT    |

CE

**AT5500 1/2" Drive Impact Wrench (Blue-Point®)**

- 550 ft-lb of torque, 7,400 RPM, 1,200 BPM
- Built-in five-position adjustable air regulator plus a variable-speed trigger for maximum user control
- Twin-hammer impact mechanism is designed to hit hard yet offer tool longevity
- Ball-bearing-mounted motor creates a smooth running operation for longer tool life
- 1 pc aluminum housing provides a durable tool
- Tapered nose increases accessibility to confined areas
- Inlet filter screens out dirt and grit; easy-to-remove filter for cleaning
- One year limited warranty

**AT570 1/2" Drive Impact Wrench (Blue-Point®)**

- Used on automotive and truck fasteners
- Shot-peen anvils for improved durability
- Reverse-bias motor provides additional torque
- Three-position regulator to control power
- One-handed forward/reverse lever for user convenience
- Composite housing with an aluminum nose combine to deliver a durable, lightweight and balanced unit
- Twin-hammer impact mechanism delivers hard-hitting blows to quickly remove stubborn fasteners

**AT5500T 1/2" Drive Tight-Access Impact Wrench (Blue-Point®)**

- 550 ft-lb of torque, 9,000 RPM, 1,200 BPM
- Compact and lightweight for reduced user fatigue
- Twin-hammer impact mechanism hits harder and delivers increased tool longevity
- Polished aluminum housing is durable and easy to clean
- Ball-bearing-mounted motor for smooth running operation
- Removable brass inlet filter protects the tool from grit and debris
- Large forward/reverse lever for one-handed operation

## AIR: 1/2" DRIVE IMPACT WRENCHES (Blue-Point®)

### 1/2" Drive Impact Wrench (Blue-Point®)

EU/CE – DE, ES, FR, IT, NL, UK (all models)

| Specifications                      | AT2550           |
|-------------------------------------|------------------|
| Air Consumption, CFM (SCFM) [l/min] | 4.3 (—) [121.76] |
| Square Drive, inches (mm)           | 1/2 (13)         |
| Max Torque, ft-lb (N•m)             | 300 (406)        |
| Free Speed, RPM                     | 10,000           |
| Blows Per Minute, BPM               | 1,500            |
| Recommended Air Pressure, PSI (Bar) | 90 (6.2)         |
| Sound Level dB(A) Pressure          | 102              |
| Length, inches (mm)                 | 4.29 (109)       |
| Weight, lb (kg)                     | 2.96 (1.34)      |

#### AT2550 1/2" Drive Compact Impact Wrench (Blue-Point®)

- 300 ft-lb of torque
- Jumbo hammer mechanism
- Thumb-operated forward/reverse lever
- Three forward speeds and one reverse speed
- Exhaust is released through the bottom of the handle, away from the work area
- One year limited warranty



AT2550

### 1/2" Drive Impact Wrench (Blue-Point®)

EU/CE – DE, ES, FR, IT, NL, UK (all models)

| Specifications                      | AT1050           |
|-------------------------------------|------------------|
| Square Drive, inches (mm)           | 1/2 (13)         |
| Max Torque, ft-lb (N•m)             | 190 (257)        |
| Free Speed, RPM                     | 4,150            |
| Blows Per Minute, BPM               | 1,950            |
| Air Consumption, CFM (SCFM) [l/min] | 3.7 (—) [104.77] |
| Recommended Air Pressure, PSI (Bar) | 90 (6.2)         |
| Length, inches (mm)                 | 13.15 (334)      |
| Weight, lb (kg)                     | 3.47 (1.574)     |

#### AT1050 1/2" Drive Right-Angle Impact Wrench (Blue-Point®)

- Low-profile, right-angle head for access to tight spaces
- Hard-hitting jumbo hammer mechanism
- Multiple speed settings—two forward and one reverse
- Forward/Reverse lockout mechanism
- Variable-speed trigger
- Gear oil lubrication for reduced component wear and longer tool life
- One year limited warranty



AT1050



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

## AIR: 3/8" DRIVE IMPACT WRENCHES



MG325

### 3/8" Drive Super-Duty Impact Wrench

#### MG325 Series Features:

- Compact Size: Great for working in restricted access areas
- Balanced Lightweight Housing: 2.8 lb unit provides superior control with less user fatigue
- Efficient: 425 ft-lb bolt breakaway torque to remove stubborn fasteners fast
- Productive: 10,700 RPM for faster bolt removal
- One-piece machined magnesium housing
- Anvil stop feature
- Slim-style nose
- Cushion grip trigger
- Patented field replaceable cushion grip
- Continuous oil bath lubrication
- Eight-vane rotor
- Twin-hammer impact mechanism
- Protective boot included
- Muffler kit included
- One-handed forward/reverse lever
- 2 year warranty: Durability and strength to keep you working longer
- EU/CE-DE, ES, FR, IT, GB, NL
- UL® and cUL Listed

| Specifications                                  | MG325         |
|---|---------------|
| Drive Size, inches (mm)                         | 3/8 (10)      |
| Maximum Torque, ft-lb (N•m)                     | 325 (440)     |
| Free Speed, RPM                                 | 10,700        |
| Blows Per Minute, BPM                           | 1,400         |
| Anvil Type                                      | Friction Ring |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4 (28) [113]  |
| Air Inlet Thread Size                           | 1/4"-18 NPT   |
| Recommended Hose Size, inches (mm)              | 3/8 (10)      |
| Vibration Level, m/s <sup>2</sup>               | 4.5           |
| Sound Pressure Level, dB(A)                     | 99.1          |
| Length, inches (mm)                             | 6.1 (155)     |
| Weight, lb (kg)                                 | 2.8 (1.3)     |
| Warranty  | 2 Year        |
| Vinyl Boot                                      | MG325BOOT     |

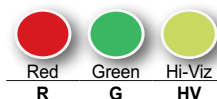
Impact wrench suffix: P = Pinned anvil, L = Long anvil, LP= Long pinned anvil. Standard anvil for applications where frequent socket change is required. Pinned anvil for high torque applications where socket security is a priority. Long anvil for tight applications that require extra reach.

CE

#### MG325 3/8" Drive Air Impact Wrench

- 325 ft-lb of maximum torque; 10,700 RPM free speed; 1,400 BPM
- Twin-hammer impact mechanism delivers hard-hitting blows with fewer moving parts, quickly removing stubborn fasteners
- Continuous oil bath lubrication prolongs the life of the tool by reducing premature component wear
- Eight-vane motor delivers maximum speed and torque
- Lightweight, balanced design distributes weight evenly to reduce user fatigue
- One-handed forward/reverse lever for user convenience
- Patented field-replaceable cushion grip handle absorbs vibration and insulates the user's hand in cold temperatures
- Comfort cushion trigger button allows the user to work comfortably with less finger stress
- Anvil stop feature means anvil will stop when the trigger is released to avoid throwing fasteners
- Protective boot and muffler kit are included
- Weighs 2.8 lb (1.3 kg)

#### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## AIR: 3/8" DRIVE IMPACT WRENCHES (Blue-Point®)



AT370



AT380A



AT2538



AT1038



AT351



AT235MCA

### 3/8" Drive Heavy-Duty (Blue-Point®)

| Specifications                                  | AT370                                   | AT380A†        | AT2538†     | AT1038†          | AT351            | AT235MCA         |
|---|---|----------------|-------------|------------------|------------------|------------------|
| Drive Size, inches (mm)                         | 3/8 (10)                                | 3/8 (10)       | 3/8 (10)    | 3/8 (10)         | 3/8 (10)         | 1/4 (6)          |
| Max Torque, ft-lb (N•m)                         | 320 (434)                               | 175 (230)      | 275 (373)   | 190 (257)        | 175 (237)        | 25 (34)          |
| Free Speed, RPM                                 | 9,000 (F), 9,500 (R)                    | 8,700          | 9,000       | 4,150            | 9,700            | 13,000           |
| Blows Per Minute, BPM                           | 1,050                                   | 1,680          | 1,500       | 1,950            | 1,200            | 2,900            |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4.4 (326) [125] (F), 4.7 (34) [133] (R) | 3.9 (28) [111] | 4.3 (—)     | 3.7 (—) [104.77] | 2.5 (18) [71]    | 1.67 (12) [47]   |
| Air Inlet Thread Size                           | 1/4"-18 NPT                             | 1/4"-18 NPT    | 1/4"-18 NPT | 1/4"-18 NPT      | 1/4"-18 NPT      | 1/4"-18 NPT      |
| Recommended Hose Size, inches (mm)              | 3/8 (10)                                | 3/8 (10)       | 90 (6.2)    | 90 (6.2)         | 3/8 (10) ID min. | 3/8 (10) ID min. |
| Vibration Level, m/s <sup>2</sup>               | 3.25                                    | 3.5            | 8.6         | 8.2              | 96.6             | <2.5             |
| Sound Level dB(A) Pressure                      | 92                                      | 94             | 100         | 94.4             | 3.09             | 95.1             |
| Length, inches (mm)                             | 6.3 (160)                               | 6.5 (165)      | 4.29 (109)  | 13.15 (334)      | 7.6 (194)        | 6.2 (158)        |
| Weight, lb (kg)                                 | 2.62 (1.19)                             | 3.0 (1.36)     | 2.96 (1.34) | 3.47 (1.574)     | 2.5 (1.2)        | 1.4 (.64)        |
| Vinyl Boot                                      | AT370BOOT                               | AT380ABOOT     | —           | —                | —                | —                |

† CE

#### AT370 3/8" Drive Impact Wrench

- Used on automotive and truck fasteners
- Shot-peen anvils for improved durability
- Reverse-bias motor provides additional breakaway torque
- Three-position regulator to control power
- One-handed forward/reverse lever for convenient use
- Composite housing with an aluminum nose combine to deliver a durable, lightweight and balanced unit
- Twin-hammer impact mechanism delivers hard-hitting blows to quickly remove stubborn fasteners

#### AT380A 3/8" Drive Impact Wrench (Blue-Point®)

- Built-in, five-position adjustable air regulator plus a variable-speed trigger for maximum user control
- Aluminum housing provides a lightweight yet durable tool
- Tapered nose increases accessibility to confined areas
- Ball-bearing-mounted motor creates a smooth-running operation for less user fatigue
- Brass inlet filter screens out dirt and grit; easy-to-remove filter for cleaning
- Twin-hammer impact mechanism is designed to hit hard yet offer tool longevity
- One year limited warranty

#### AT2538 3/8" Drive Compact Impact Wrench (Blue-Point®)

- 275 ft-lb of torque
- Jumbo hammer mechanism
- Thumb-operated forward/reverse lever
- Three forward speeds and one reverse
- Exhaust is released through the bottom of the handle, away from the work area
- One year warranty

#### AT1038 3/8" Drive Right-Angle Impact Wrench (Blue-Point®)

- Low-profile right-angle head for access to tight spaces
- Hard-hitting jumbo hammer mechanism
- Multiple speed settings—two forward and one reverse
- Forward/reverse lockout mechanism
- Variable-speed trigger
- Gear oil lubrication for reduced component wear and longer tool life
- One year limited warranty

#### AT351 3/8" Drive Impact Wrench (Blue-Point®)

- Built-in air inlet swivel
- Eight-position power regulator
- Rotary action air motor is ball bearing mounted for balance, speed and power
- Ideal tool for small engine repair and bench work

#### AT235MCA 1/4" Drive Micro Impact Wrench (Blue-Point®)

- 25 ft-lb of torque
- Balanced, lightweight, reduces fatigue
- Durable composite housing
- Oversized trigger with variable-speed
- Convenient one-handed forward/reverse lever
- Exhaust is released through the bottom of the handle, away from the work area

#### AT380BOOT Air Impact Wrench Boot (Blue-Point®)

- Protective vinyl boot for air impact wrench

#### AT370BOOT Vinyl Boot (AT370 Series) (Blue-Point®)



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

## AIR: 3/8", 1/4" DRIVE RATCHETS



PTR72



PTR2500



PTR2505

### Air Ratchets (Snap-on®)

| Specifications                                  | PTR72 *          | PTR2500          | PTR2505          |
|---|------------------|------------------|------------------|
| Drive Size, inches (mm)                         | 3/8 (10)         | 1/4 (6)          | 3/8 (10)         |
| Maximum Torque, ft-lb (N•m)                     | 70 (95)          | 0-35 (0-47)      | 0-35 (0-47)      |
| Free Speed, RPM                                 | 275              | 225              | 225              |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4.5 (32) [127]   | 1.7 (11) [48]    | 1.7 (11) [48]    |
| Air Inlet Thread Size                           | 1/4"-18 NPT      | 1/4"-18 NPT      | 1/4"-18 NPT      |
| Recommended Hose Size, inches (mm)              | 3/8 (10)         | 3/8 (10)         | 3/8 (10)         |
| Vibration Level, m/s <sup>2</sup>               | 5.2              | 2.5              | 2.5              |
| Sound Level dB(A) Pressure                      | 92.9             | 84               | 84               |
| Length, inches (mm)                             | 12.1 (308)       | 7.8 (197)        | 7.8 (197)        |
| Weight, lb (kg)                                 | 2.9 (1.3)        | 1.4 (.6)         | 1.4 (.6)         |
| Vinyl Boot                                      | YA889 (included) | YA905 (included) | YA905 (included) |
| Warranty  | 2 Year           | 1 Year           | —                |

#### PTR72 3/8" Drive Super-Duty Air Ratchet

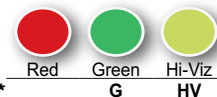
- 70 ft-lb of torque output to remove stubborn fasteners
- Easily withstands 158 ft-lb of manual torque
- 275 RPM free speed for fast removal and installation of fasteners
- "Stop lock" pins prevent ratchet pawl lockup
- Steel wear bushings reduce ratchet head wear
- Dual-pawls for added strength
- Tip valve-style trigger is easy to feather for greater control
- Large selector knob for easy direction change
- Adjustable composite exhaust directs the airflow away from work
- Cushion grip for added comfort and control

#### PTR2500 1/4" Drive Mini Air Ratchet

- Balanced, lightweight housing for superior comfort and control with less user fatigue
- Soft grip handle provides increased comfort while reducing vibration and insulating from the cold
- Hard-coated motor plates help reduce scoring for longer tool life
- Large forward/reverse knob makes it easy to switch directions, even with greasy hands
- Zerk fitting allows the ratchet head to be lubricated for longer tool life
- Variable-speed trigger allows for slow motor start-ups

#### PTR2505 3/8" Drive Mini Air Ratchet

##### Colors Available



\* Red G HV

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

# AIR: 1/4", 3/8", 1/2" DRIVE RATCHETS (Blue-Point®)



AT200D



AT204A



AT208A



AT238A



AT700F



AT705B

## Air Ratchets (Blue-Point®)

| Specifications                                  | AT200D        | AT204A        | AT208A          | AT238A                 | AT700F        | AT705B        |
|---|---------------|---------------|-----------------|------------------------|---------------|---------------|
| Drive Size, inches (mm)                         | 1/4 (6)       | 1/4 (6)       | 3/8             | 3/8" (9.5)             | 3/8 (10)      | 1/2 (13)      |
| Torque Range, ft-lb (N•m)                       | 5–25 (6–34)   | 30 (40.6)     | 30 (40.7)       | 40 (54.2)              | 5–60 (6–81)   | 5–50 (6–68)   |
| Free Speed, RPM                                 | 230           | 350           | —               | 550                    | 165           | 150           |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 1.4 (10) [40] | 3.5 (25) [99] | 3.5 (–) [99.11] | 2.38 (17 SCFM) [67.39] | 3.0 (22) [85] | 3.0 (22) [85] |
| Air Inlet Thread Size                           | 1/4"-18 NPT   | 1/4"-18 NPT   | 1/4" - 18 NPT   | 1/4" - 18 NPT          | 1/4"-18 NPT   | 1/4"-18 NPT   |
| Recommended Air Pressure, PSIG (kPa)            | 90 (620)      | 90 (620)      | 90 (6.2)        | 90 (6.2)               | 90 (620)      | 90 (620)      |
| Vibration Level, m/s <sup>2</sup>               | 3.3           | 3.6           | 6.81            | 6.2                    | 8.7           | 8.7           |
| Sound Level dB(A) Pressure                      | 85            | 94            | 89              | —                      | 89            | 89            |
| Length, inches (mm)                             | 8.7 (222)     | 5.12 (130)    | 5.12 (130)      | 6.3 (160)              | 10.1 (257)    | 10.7 (273)    |
| Weight, lb (kg)                                 | 1.1 (.50)     | 1.05 (.48)    | 1.05 (0.48)     | 1.39 (0.63)            | 2.5 (1.14)    | 2.5 (1.14)    |
| Vinyl Boot                                      | AT200D22A     | AT238-36      | AT238-36        | —                      | AT700E49A     | AT700E49A     |

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### AT200D 1/4" Drive Air Ratchet (Blue-Point®)

- 20 ft-lb maximum torque
- Lightweight aluminum housing
- Rugged ball bearing-mounted air motor and precision planetary gear system
- Includes vinyl boot

### AT204A 1/4" Drive Mini Air Ratchet (Blue-Point®)

- Ideal for working in tight quarters
- Head clearance is less than 3/4"
- Includes variable-speed trigger, adjustable air regulator and 5' nylon braided whip hose for maneuverability and control
- Composite housing provides strength and durability

### AT208A 3/8" Mini Air Ratchet Wrench (Blue-Point®)

- Compact size allows for greater access to tight spaces
- Easy to use with a variable-speed throttle
- 30 ft-lb torque
- Lightweight design reduces fatigue
- Comfort grip, head boot and 5' braided PU hose
- One year limited warranty

### AT238A 3/8" Drive Mini Impacting Ratchet Wrench (Blue-Point®)

- Reaction-free clutch mechanism prevents kick-back
- 40 ft-lb torque
- Compact size allows for greater access to tight spaces
- Lightweight design reduces fatigue
- 1/4"-18 NPT air inlet thread size
- One year limited warranty

### AT700F 3/8" Drive Ratchet (Blue-Point®)

- Delivers 5–45 ft-lb of torque
- Rugged ball bearing mounted air motor and precision planetary gear system
- Easy-to-use variable-speed throttle plus adjustable air regulator
- Lightweight aluminum housing

### AT705B 1/2" Drive Ratchet (Blue-Point®)

- 1/2" drive ratchet in a 3/8" drive body
- Ball bearing mounted motor for longer tool life

### AT238-36 Head Boot



• Use only impact sockets and accessories with impact wrenches

# AIR: 1/4", 3/8", 1/2" CAPACITY DRILLS



PDR5000A



PDR5001



PDR3000A



PDR3001

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## 1/4", 1/2" and 3/8" Capacity Drills

| Specifications                               | PDR5000A†*     | PDR5001*       | PDR3000A†*    | PDR3001        |
|--|----------------|----------------|---------------|----------------|
| Chuck Size, inches (mm)                      | 1/2 (13)       | 1/2 (13)       | 3/8 (10)      | 3/8" (10)      |
| Rated Power, HP (kW)                         | 0.45 (.33)     | .45 (.33)      | 0.45 (.33)    | .45 (.33)      |
| Torque Range, in-lb (N•m)                    | 0–300 (0–34)   | 0–300 (0–340)  | 0–50 (0–6.0)  | 0–50 (0–6.0)   |
| Free Speed, RPM                              | 450            | 450            | 2,500         | 2,500          |
| Spindle Thread, inches                       | 1/2"-20 UNF    | 1/2"-20 UNF    | 3/8"-24 UNF   | 3/8"-24 UNF    |
| Air Consumption, Average, CFM (SCFM) [l/min] | 3.8 (27) [108] | 3.8 (27) [108] | 3.5 (25) [99] | 3.8 (27) [100] |
| Air Inlet Thread Size                        | 1/4"-18 NPT    | 1/4"-18 NPT    | 1/4"-18 NPT   | 1/4" -18 NPT   |
| Recommended Hose Size, inches (mm)           | 3/8 (10)       | 3/8 (10)       | 3/8 (10)      | 3/8" (10)      |
| Vibration Level, m/s <sup>2</sup>            | 0.9            | .9             | 3.0           | 3.5            |
| Sound Pressure Level, dB(A)                  | 82.6           | 80             | 79.7          | 83.6           |
| Length, inches (mm)                          | 8.7 (222)      | 8.7 (222)      | 7 (178)       | 7 (178)        |
| Weight, lb (kg)                              | 3 (1.3)        | 3 (1.3)        | 2.2 (1)       | 2.2 (1)        |
| Auxiliary Handle                             | PDR5000-40A    | PDAH1A         | —             | —              |
| Chuck Key                                    | 30429          | —              | 30002         | —              |
| Chuck Type                                   | Keyless        | Keyed          | Keyed         | Keyless        |
| Replacement Chuck                            | PDR5000-2      | —              | PDR3A-2       | PDR3A-2        |
| Keyless Chuck                                | PDR5000-2      | SP68187        | SP201133B     | PDR3000-2      |

\*Also available in Orange, Green and Hi-Vis

† C E

### PDR5000A 1/2" Capacity Reversible Drill

### PDR5001 1/2" Capacity Keyless Chuck Reversible Drill

- Five-vane air motor delivers high-torque power for added durability
- Three-planet industrial strength gear train provides durability for heavy-duty applications
- Precise .0025" **chuck run-out for precision drilling**
- Includes side handle for added control in high-torque drilling applications

### PDR3000A 3/8" Capacity Reversible Drill

### PDR3001 3/8" Capacity Keyless Chuck Reversible Drill

- Convenient top-mounted forward/reverse switch allows for one-handed operation
- Five-vane air motor provides more drilling power to get the job done faster
- Overmolded cushion handle insulates from cold and vibration to reduce user fatigue
- Reversible variable-speed trigger for more control of drilling speed allows for precise drilling and increased safety
- Internal ball bearing construction for smooth operation and extended tool life
- Three-planet industrial strength gear train provides durability for heavy-duty drilling applications
- Precise .0025 chuck runout which enables precision drilling yielding a high-quality job
- Ergonomically designed lightweight aluminum housing provides a high power-to-weight ratio, allowing more productivity with less fatigue



AT184

## Spotweld Drill

| Specifications                                  | AT184           |
|---|-----------------|
| Chuck Size, inches (mm)                         | 5/16 (8)        |
| Rated Power, HP (kW)                            | 0.32 (.65)      |
| Free Speed, RPM                                 | 0–1,000/0–1,800 |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 8.4 (60) [238]  |
| Air Inlet Thread Size                           | 1/4"-18 NPT     |
| Recommended Hose Size, inches (mm)              | 3/8 (10)        |
| Sound Level dB(A) Pressure                      | 84              |
| Length, inches (mm)                             | 7.9 (201)       |
| Weight, lb (kg)                                 | 3.1 (1.4)       |
| Spotweld Drill Bit (6.5 mm) (optional)          | AT183-43        |
| Spotweld Drill Bit (8 mm) (included)            | AT183-50        |
| Spotweld Drill Bit (10 mm) (optional)           | AT183-51        |
| Support Arm 5.5 (optional)                      | AT184-26A       |

C E



## AIR: 1/4", 3/8", 1/2" CAPACITY DRILLS (Blue-Point®)



AT5000



AT3000



AT811



AT801MCA

### 3/8" and 1/2" Drills (Blue-Point®)

| Specifications                               | AT5000†        | AT3000†       | AT811†           | AT801MCA          |
|--|----------------|---------------|------------------|-------------------|
| Chuck Size, inches (mm)                      | 1/2 (13)       | 3/8 (10)      | 3/8 (10)         | 1/4 (6)           |
| Rated Power, HP (kW)                         | 0.45 (.33)     | 0.45 (.33)    | 0.45 (.33)       | 0.25 (.19)        |
| Torque Range, in-lb (N•m)                    | 0–120 (0–14)   | 0–40 (0–4.5)  | 0–55 (0–6)       | 0–18 (0–2.0)      |
| Free Speed, RPM                              | 490            | 1,675         | 1,320            | 1,800             |
| Spindle Thread, inches                       | 1/2"-20 UNF    | 3/8"-24 UNF   | 3/8"-24 UNF      | 3/8"-24 UNF       |
| Air Consumption, Average, CFM (SCFM) [l/min] | 3.8 (27) [108] | 3.5 (25) [95] | 3.4 (24) [95]    | 1.9 (13.6) [53.8] |
| Air Inlet Thread Size                        | 1/4"-18 NPT    | 1/4"-18 NPT   | 1/4"-18 NPT      | 1/4"-18 NPT       |
| Recommended Hose Size, inches (mm)           | 3/8 (10)       | 3/8 (10)      | 3/8 (10) ID min. | 3/8 (10) ID min.  |
| Vibration Level, m/s <sup>2</sup>            | <2.5           | <2.5          | <.8              | <2.5              |
| Sound Level dB(A) Pressure                   | 82             | 82            | 110              | 96.4              |
| Length, inches (mm)                          | 9 (229)        | 7.6 (194)     | 8.2 (208)        | 7.2 (183)         |
| Weight, lb (kg)                              | 3.8 (1.7)      | 3.2 (1.4)     | 2.2 (1)          | 1.5 (0.68)        |
| Auxiliary Handle                             | PDAH1A         | —             | —                | —                 |
| Vinyl Boot (opt.)                            | AT5000BOOT     | AT3000BOOT    | —                | —                 |

† C €

#### AT5000 1/2" Reversible Drill (Blue-Point®)

- Chuck key conveniently stores in the handle
- Variable-speed trigger
- Convenient one-handed forward/reverse operation
- Exhaust is released through the bottom of the handle, away from the work area

#### AT3000 3/8" Reversible Drill (Blue-Point®)

- Convenient one-handed forward/reverse operation
- Exhaust is released through the bottom of the handle, away from the work area
- Comfort grip handle
- Keyless chuck saves time when changing bits

#### AT811 3/8" Angle Drill (Blue-Point®)

- Convenient one-handed push-button forward/reverse operation
- Rear exhaust keeps air away from the work area
- Ball-bearing construction for longer tool life

#### AT801MCA 1/4" Micro Drill (Blue-Point®)

- Small size is ideal for working in confined areas
- Durable composite housing stands up to rugged use
- Reverse lever is conveniently positioned for one-handed operation
- Oversized variable-speed trigger

### 90° Angle Drill Set

#### YA409 90° Angle Drill Kit (Blue-Point®)

- Allows drilling up to 1/4" holes in confined areas by positioning the bit at a 90° angle to the drill
- Threaded drill bits provide consistent concentricity and eliminate slippage
- Includes
  - YA409 Drive unit; chucking spud
  - YA409-316M 3/16" bit (1-1/4" long)
  - YA409-18L 1/8" bit (2-1/8" long)
  - YA409-332L 3/32" bit (2-1/8" long)
  - YA409-18M 1/8" bit (1-1/4" long)
  - YA409-532M 5/32" bit (1-1/4" long)
  - YA409-18S 1/8" bit (3/4" long)
  - YA409-15 Storage Case



YA409



• Read safety precautions on pages W1 to W4

## AIR: HAMMERS



PH3050BR

Colors Available



Red Green Hi-Viz  
G HV

\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



AT2050



PH200D

### Air Hammer

| Specifications                                  | PH3050BR*     | AT2050†       |
|---|---------------|---------------|
| Bore Diameter, inches (mm)                      | 3/4 (19)      | 3/4 (19)      |
| Blows Per Minute, BPM                           | 2,500         | 3,400         |
| Piston Stroke, inches (mm)                      | 3 (76)        | 2.75 (70)     |
| Shank Opening, inches (mm)                      | 0.401 (10.1)  | 0.401 (10.1)  |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 2.1 (14) [59] | 2.5 (18) [71] |
| Air Inlet Thread Size                           | 1/4"-18 NPT   | 1/4"-18 NPT   |
| Recommended Hose Size, inches (mm)              | 5/16 (8)      | 5/16 (8)      |
| Vibration Level, m/s <sup>2</sup>               | 2.8           | 8.6           |
| Sound Level dB(A) Pressure                      | 91.4          | 99            |
| Length, inches (mm)                             | 9.0 (228)     | 7.4 (187)     |
| Weight, lb (kg)                                 | 5.9 (2.7)     | 4.6 (2.1)     |
| Vinyl Boot                                      | PH3050RBOOT   | AT2050BOOT    |

† C E

#### PH3050BR Super-Duty Air Hammer

- Dual elastomer cushions absorb shock and vibration to reduce user fatigue
- Phenolic (Kevlar®-reinforced) flutter disc provides long life
- Direct multiport front exhaust keeps air and debris away from the user
- High-grade steel barrel for greater strength
- Variable-speed soft-touch trigger provides featherability for greater control
- Four-position built-in air regulator varies power for different applications
- Air line screen helps prevent foreign particles from clogging the trigger mechanism
- Hardened-steel piston delivers harder blows for maximum impact
- Includes PH200D Quick-Change Chuck Retainer

#### PH3050BRCH4 Super-Duty Air Hammer Set

- Set includes Air hammer (PH3050BR), Quick Change Retainer (PH200D), Flat Chisel (PHG55A), Panel Cutter (PHG57B), Tapered Punch (PHG59A), and Muffler Cutter (PHG87) in a storage case

#### AT2050 Heavy-Duty Air Hammer (Blue-Point®)

- Intended for heavy-duty applications, such as cutting large bolts and rivets, separating ball joints, cutting heavy-gauge sheet metal and driving bushings
- 3,400 BPM
- Quick-change chuck makes bit changing easy
- Variable-speed trigger with a built-in speed regulator
- Comfort grip handle for less user fatigue
- Hard-hitting; gets the job done quicker

### Retainer Chuck

#### PH200D Universal Quick-Change Chuck Retainer

- Use for fast and easy insertion/removal of air hammer bits
- Non-turning insert design reduces wear for longer tool life
- Constructed from high-grade steel—insert is constructed from durable polyurethane elastomer
- Universal design fits most air hammers
- Knurled collar provides a solid gripping surface, even with greasy hands

## AIR: DIE GRINDERS



PTGR100



PTGR110



PTGR200



PTGR205



PTGR210

### Mini and Standard Die Grinders, 1/4" Collet

| Specifications                                  | Mini Series   |               |             | Standard Series |             |  |
|---|---------------|---------------|-------------|-----------------|-------------|--|
|   | PTGR100 ‡     | PTGR110 ‡     | PTGR200     | PTGR205         | PTGR210     |  |
| Collet Size, inches                             | 1/4           | 1/4           | 1/4         | 1/4             | 1/4         |  |
| Rated Power, HP (kW)                            | 0.3 (.2)      | 0.3 (.2)      | .5 (.3)     | .5 (.3)         | .5 (.3)     |  |
| Free Speed, RPM                                 | 25,000        | 25,000        | 23,000      | 23,000          | 23,000      |  |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 1.7 (11) [48] | 1.7 (11) [48] | 3.2 (23)    | 3.2 (23)        | 3.2 (23)    |  |
| Air Inlet Thread Size                           | 1/4"-18 NPT   | 1/4"-18 NPT   | 1/4"-18 NPT | 1/4"-18 NPT     | 1/4"-18 NPT |  |
| Recommended Hose Size, inches (mm)              | 3/8 (10)      | 3/8 (10)      | 3/8 (10)    | 3/8 (10)        | 3/8 (10)    |  |
| Vibration Level, m/s <sup>2</sup>               | 3.2           | 6.3           | 2           | 3               | 5.2         |  |
| Sound Level dB(A) Pressure                      | 83.3          | 85.9          | 85.1        | 85.9            | 86          |  |
| Length, inches (mm)                             | 6.1 (155)     | 5.75 (146)    | 6.9 (175)   | 10.9 (276)      | 64 (162)    |  |
| Weight, lb (kg)                                 | 1 (0.4)       | 1.2 (0.5)     | 1.2 (.5)    | 2.1 (.95)       | 1.4 (.63)   |  |

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Snapon.com 1.877.762.7664

**Heavy-Duty Die Grinders**

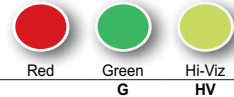
- With more stall torque than any other Snap-on® Die Grinders, these Die Grinders are ergonomically designed and surprisingly lightweight for superior control, low vibration and less fatigue
- Featuring thermally balanced 1 HP motors that deliver 12,000 RPM–25,000 RPM of free speed power for maximum performance and high stall torque
- Provides the maneuverability to reach even the most restricted areas—and all the power ever needed

| Specifications                    | PTGR400     | PTGR405     | PTGR410     | PTGR450     |
|-----------------------------------|-------------|-------------|-------------|-------------|
| Collet Size, inches               | 1/4         | 1/4         | 1/4         | 1/4         |
| Rated Power, HP (kW)              | 1.0 (.6)    | 1.0 (.6)    | 1.0 (.6)    | 1.0 (.6)    |
| Free Speed, RPM                   | 23,000      | 23,000      | 12,000      | 12,000      |
| Air Consumption, Free Speed (CFM) | 4.17 (30)   | 4.17 (30)   | 4.17 (30)   | 4.17 (30)   |
| Air Inlet Thread Size             | 1/4"-18 NPT | 1/4"-18 NPT | 1/4"-18 NPT | 1/4"-18 NPT |
| Recommended Hose Size, in (mm)    | 3/8 (10)    | 3/8 (10)    | 3/8 (10)    | 3/8 (10)    |
| Vibration Level, m/s <sup>2</sup> | 2.1         | 3.25        | .78         | 8.9         |
| Sound Level dB(A) Pressure        | 84.7        | 82.2        | 81.8        | 86.3        |
| Length, in (mm)                   | 7.5 (190)   | 12.25 (311) | 7.5 (190)   | 9 (1.47)    |
| Weight, lb (kg)                   | 1.5 (68)    | 2.6 (1.1)   | 2.0 (.91)   | 3.25 (1.47) |

CE

- PTGR400 1 HP Heavy-Duty Die Grinder**
- PTGR405 1 HP Heavy-Duty Long Neck Die Grinder**
- PTGR410 1 HP Heavy-Duty Right-Angle Die Grinder**
- PTGR450 1 HP 4-1/2" Heavy-Duty Angle Grinder**

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



**PTGR400**



**PTGR405**



**PTGR410**



**PTGR450**

**AIR: DIE GRINDERS (BluePoint®)**

**Pencil, 1/8" Collet (Blue-Point®)**

- Twist-action variable-speed control
- 5' (1.5 m) long protected air hose
- Used with 1/8" shank grinding accessories rated a minimum of 75,000 RPM
- Ideal for tight spaces and easy cleaning of dies, rotors and brake pads

| Specifications                                  | AT1070A     | AT1070RA    |
|---|-------------|-------------|
| Collet Size, inches                             | 1/8         | 1/8         |
| Free Speed, RPM                                 | 75,000      | 75,000      |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 1 (7) [28]  | 1 (7) [28]  |
| Air Inlet Thread Size                           | 1/4"-18 NPT | 1/4"-18 NPT |
| Recommended Hose Size, inches (mm)              | 3/8 (10)    | 3/8 (10)    |
| Vibration Level, m/s <sup>2</sup>               | 72          | 72          |
| Sound Level dB(A) Pressure                      | 2.0         | 2.0         |
| Length, inches (mm)                             | 5.3 (135)   | 5.9 (150)   |
| Weight, lb (kg)                                 | .55 (0.25)  | .46 (0.21)  |

CE

- AT1070A Pencil Die Grinder (Blue-Point®)**
- AT1070RA Right-Angle Pencil Air Die Grinder (Blue-Point®)**



**AT1070A**



**AT1070RA**



- When using die grinder, use only accessories intended for die grinder
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR: DIE GRINDERS (Blue Point®)



AT115



AT118



AT105



AT109



AT119



AT116



AT120L



AT120LRA



AT109DGK

### 1/4" Collet (Blue-Point®)

| Specifications                                  | AT115†       | AT118†         | AT105†           | AT109*†       | AT119†      | AT116†      | AT120L      | AT120LRA        |
|---|--------------|----------------|------------------|---------------|-------------|-------------|-------------|-----------------|
| Collet Size, inches                             | 1/4          | 1/4            | 1/4              | 1/4           | 1/4         | 1/4         | 1/4 (6.35)  | 1/4 (6.35)      |
| Rated Power, HP (kW)                            | 0.45 (.33)   | 0.2 (.15)      | 0.45 (.33)       | 0.2 (.15)     | 0.2 (.15)   | 0.2 (.15)   | 0.22 (.164) | 0.45 (.335)     |
| Free Speed, RPM                                 | 22,000       | 20,000         | 22,000           | 20,000        | 20,000      | 20,000      | 23,000      | 18,000          |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4 (29) [113] | 4.0 (29) [113] | 4 (29) [113]     | 2.1 (15) [59] | 3 (15) [59] | 3 (15) [59] | 3 (22) [85] | 3.3 (24) [93.4] |
| Air Inlet Thread Size                           | 1/4"-18 NPT  | 1/4"-18 NPT    | 1/4"-18 NPT      | 1/4"-18 NPT   | 1/4"-18 NPT | 1/4"-18 NPT | 1/4"-18 NPT | 1/4"-18 NPT     |
| Recommended Hose Size, inches (mm)              | 3/8 (10)     | 3/8 (10)       | 3/8 (10) ID min. | 3/8 (10)      | 3/8 (10)    | 3/8 (10)    | 3/8 (10)    | 3/8 (10)        |
| Vibration Level, m/s <sup>2</sup>               | <2.5         | 2.5            | <2.5             | 2.5           | <6.92       | 3           | 1.83        | 1.83            |
| Sound Level dB(A) Pressure                      | 95           | 93             | 102              | 93            | 100         | 100         | 77          | 79              |
| Length, inches (mm)                             | 6.5 (165)    | 5.5 (140)      | 6.5 (165)        | 5.5 (140)     | 6.81 (173)  | 6.5 (165)   | 11.02 (280) | 11.25 (285)     |
| Weight, lb (kg)                                 | 1.3 (.61)    | 1.1 (.50)      | 1.3 (.61)        | 1.1 (.50)     | 1.1 (50)    | 1.1 (50)    | 1.45 (.66)  | 1.63 (.74)      |

\* See below for AT109DGK Die Grinder Kit specifications.

† C E

#### AT115 Standard Air Die Grinder (Blue-Point®)

- Intended for most standard deburring operations
- Ergonomic handle grip increases comfort and control
- Safety lever throttle
- Built-in speed regulator
- Brass bearing cap and hose adaptor
- Rear diffused exhaust

#### AT118 90° Angle Mini Air Die Grinder (Blue-Point®)

- Cleans dies, rotors, backing plates and brake pad mounts
- Removes gasket material, grinds valve seats, dresses welds and enlarges holes
- Compact, mini design with 90° angled head for easy access
- Ergonomic handle grip increases comfort and control
- Safety lever throttle
- Built-in speed regulator
- Brass bearing cap and hose adaptor

#### AT105 Standard Air Die Grinder (Blue-Point®)

- Aluminum housing for long-lasting durability
- Intended for most standard deburring operations
- High-quality bearings improve productivity with less repair
- Rear exhaust directs air away from work area

#### AT109 Right-Angle Mini Air Die Grinder (Blue-Point®)

- Aluminum housing for long-lasting durability
- Compact mini design with 90° head for easy access
- High-quality bearings improve productivity with less repair

#### AT109DGK Die Grinder Kit (Blue-Point®)

- Includes AT109 Mini Angle Die Grinder plus (1) 2" (50.8 mm) ROLOC® pad, (2) 2" (50.8 mm) coarse discs, (2) 2" (50.8 mm) medium discs, (2) 2" (50.8 mm) 24 grit discs, (2) 2" (50.8 mm) 36 grit discs, (2) 2" (50.8 mm) crud discs, (1) 3" (76.2 mm) ROLOC® pad, (2) 3" (76.2 mm) 50 grit discs, (2) 3" (76.2 mm) 120 grit discs, (2) 3" (76.2 mm) crud discs, (1) 1/4" shank adaptor and (2) spanner wrenches in a storage case

#### AT119 Mini Angle Air Die Grinder (Blue-Point®)

- 115° offset head provides a more ergonomic grinding position
- Thread-on-style disc provides a more compact head
- One 2" quick-change disc included so the tool is ready for the abrasive pad
- Used for body work spot sanding, cleaning gasket material from surfaces, dressing welds, cleaning brake rotors, backing plates and brake pads

#### AT116 Mini Angle Air Die Grinder (Blue-Point®)

- 115° offset head provides a more ergonomic grinding position
- 1/4" collet
- Compact size is ideal for accessing tough-to-reach areas
- Overmolded comfort grip
- Variable-speed regulator for precision control
- Available optional accessories AT116-3 ROLOC® Pad (2", 1/4" shaft) and AT116-4 ROLOC® Pad (3", 1/4" shaft)

#### AT120L Extended-Length Mini Air Die Grinder (Blue-Point®)

- Extended reach of 4.5" to gain access into limited work spaces
- Comfort grip reduces fatigue
- Built-in speed regulator matches tool speed to the job
- Safety throttle-release the lever and the tool turns off

#### AT120LRA Right-Angle Extended-Length Mini Air Die Grinder (Blue-Point®)

- Built-in speed regulator matches tool speed to the job
- Comfort grip reduces fatigue
- Safety throttle-release the lever and the tool turns off
- .45 HP motor with 18,000 RPM free speed
- Extended reach of 4.5" with a 90° head

## AIR: DIE GRINDERS (BluePoint®)



AT215



AT187

### Grinder (Blue-Point®)

#### AT215 2" Angle Grinder (Blue-Point®)

- Excellent for working in confined areas on jobs that require fast metal removal
- Ideal for body shops, automobile and truck repair
- Grease fitting in head enables gears to be greased for longer tool life
- Includes (6) 2" wheels; tool is ready for use
- Moveable guard—up to 50° in either direction—fits various applications
- Built-in speed regulator allows the user to set the desired speed, providing more control
- Rear exhaust with rotating deflector directs air away from the work area with no blowback toward the user
- Comfort grip housing insulates from cold and vibration for less user fatigue
- Safety lever throttle prevents accidental start-ups for increased safety
- Includes AT215GWSET six pack grinding stone

### Engraving Pens (Blue-Point®)

- Marks tools and other objects to prevent theft
- Used on hardened-steel plate (up to HRC55), metals, glass, stone, ceramic, plastics and more
- Used for deburring operations and reshaping screw/bolt heads for removal
- Rugged metal housing
- Knurled fingertip control
- Tips sold separately

#### AT187 Engraving Pen (Blue-Point®)

#### AT187-11 45° Thick Plate Carbide Tip (Blue-Point®)

#### AT187-13 15° Thin Plate Carbide Tip (Blue-Point®)

#### AT187-14 30° Medium Plate Carbide Tip (Blue-Point®)

## AIR: CUT-OFF TOOLS

### Heavy-Duty Cut-Off Tools

- Powerful thermally balanced air motor cools internal parts and the tool surface
- Double bearings for smooth operation
- Built-in speed regulator for easy adjustment
- Rear-diffused exhaust directs exhaust away from the work area
- Lightweight and ergonomic comfort grip handle for less user fatigue
- Paddle-style trigger/safety lever for easy operation
- Precision-machined steel end plates for greater durability
- Adjustable wheel guard for use at any angle



PTC430

| Specifications                                  | PTC430         | PTC490         |
|---|----------------|----------------|
| Wheel Size, inches (mm)                         | 3 (76)         | 4 (102)        |
| Rated Power, HP (kW)                            | 1.0 (.75)      | 1.0 (0.75)     |
| Free Speed, RPM                                 | 25,000         | 12,000         |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4.17 (23) [90] | 4.17 (23) [90] |
| Air Inlet Thread Size                           | 1/4"-18 NPT    | 1/4"-18 NPT    |
| Recommended Hose Size, inches (mm)              | 3/8 (10)       | 3/8 (10)       |
| Vibration Level, m/s <sup>2</sup>               | 6.92           | 3.41           |
| Sound Level dB(A) Pressure                      | 87             | 87.8           |
| Length, inches (mm)                             | 7.5 (190)      | 9.3 (236)      |
| Weight, lb (kg)                                 | 1.9 (.86)      | 3 (1.3)        |
| 3" Cutter Wheels (36-Grit) (opt.)               | AT150-20A      | —              |
| 3" Cutter Wheels (54-Grit) (opt.)               | AT150C29A      | —              |
| 4" Cutter Wheels (opt.)                         | —              | AT154RWHLMP    |

#### PTC430 Heavy-Duty 1 HP 3" Cut-Off Tool

#### PTC490 Heavy-Duty 4" Angle Cut-Off Tool

#### Colors Available



|        |     |       |        |
|--------|-----|-------|--------|
| PTC430 | Red | Green | Hi-Viz |
| PTC490 | G   |       | HV     |
|        | —   |       | HV     |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



PTC490



- Use only accessories intended for die grinders
- Do not use grinder accessories above their maximum rated RPM
- Read safety precautions on pages W1 to W4

**AIR: CUT-OFF TOOLS**



PTC250

**Cut-Off Tool**

| Specifications                                  | PTC250           |
|---|------------------|
| Wheel Size, inches (mm)                         | 3 (76)           |
| Rated Power, HP (kW)                            | 0.5 (.37)        |
| Free Speed, RPM                                 | 22,000           |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 3.2 (23) [90]    |
| Air Inlet Thread Size                           | 1/4" -18 NPT     |
| Vibration Level, m/s <sup>2</sup>               | 6                |
| Sound Level dB(A) Pressure                      | 86.1             |
| Length, inches (mm)                             | 7.2 (183)        |
| Weight, lb (kg)                                 | 1.6 (.73)        |
| 3" Cutter Wheels (36-Grit) (opt.)               | <b>AT150-20A</b> |
| 3" Cutter Wheels (54-Grit) (opt.)               | <b>AT150C29A</b> |

CE

**PTC250 3" Cut-Off Tool**

- Adjustable cutting wheel guard rotates to any safe and convenient position
- Adjustable rear exhaust directs airflow away from the work area
- Thermally balanced air motor acts as an internal cooling system to protect moving parts; efficiently routes air to control the surface temperature of the tool
- Adjustable regulator matches tool speed to job requirements
- Variable-speed paddle-style safety trigger prevents accidental start-ups
- Collet system on the die grinders provides bit retention and minimal runout
- High-quality single-row bearings allow for smooth operation and minimal runout to keep the tool running longer
- Black Alcryn® grips with red Snap-on® logo for improved comfort and resistance to automotive fluids
- Easy wheel changing using standard wrenches
- Optional accessories include Cut-Off Wheels (AT150-20A)



AT154RA

**Reversible Cut-Off Tools (Blue-Point®)**

| Specifications                                  | AT154RA            | AT157R           |
|---|--------------------|------------------|
| Wheel Size, inches (mm)                         | 4 (102)            | 3 (76)           |
| Rated Power, HP (kW)                            | 0.7 (0.5)          | 0.45 (.33)       |
| Free Speed, RPM                                 | 13,000             | 20,000           |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 3.1 (22) [87]      | 3.5 (25) [99]    |
| Air Inlet Thread Size                           | 1/4" -18 NPT       | 1/4" -18 NPT     |
| Recommended Hose Size, inches (mm)              | 3/8 (10)           | 3/8 (10)         |
| Vibration Level, m/s <sup>2</sup>               | 3.07               | <3.8             |
| Sound Level dB(A) Pressure                      | 85                 | 100              |
| Length, inches (mm)                             | 14.3 (365)         | 7.3 (185)        |
| Weight, lb (kg)                                 | 3.3 (1.5)          | 1.9 (.86)        |
| 3" Cutter Wheels (36-Grit) (opt.)               | —                  | <b>AT150-20A</b> |
| 3" Cutter Wheels (54-Grit) (opt.)               | —                  | <b>AT150C29A</b> |
| 4" Cutter Wheels                                | <b>AT154RWHLMP</b> | —                |

CE

**AT154RA 4" Reversible Cut-Off Tool (Blue-Point®)**

- 14.3" overall length provides extended reach for easier access
- Reverse mode controls direction of sparks for safety
- Exhaust is diffused through the rear of the tool away from work surface
- Side handle provides additional tool control



AT157R

**AT157R 3" Reversible Cut-Off Tool (Blue-Point®)**

- Ideal for use in body shops and other general automotive applications
- Spark direction control
- Extended reach for hard-to-access areas
- Built-in speed regulator for fine tuning
- Safety throttle lever
- Comfort grip handle
- Uses wheels only rated above 18,000 RPM
- Recommended for cutting mufflers, hose clamps, bolts and sheet metal
- 1 year limited warranty

### Cut-Off Tool (Blue-Point®)

| Specifications                                  | AT153           |
|---|-----------------|
| Wheel Size, inches (mm)                         | 3 (76)          |
| Rated Power, HP (kW)                            | 0.5 (0.37)      |
| Free Speed, RPM                                 | 17,000          |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 3.5 (24) [99.1] |
| Air Inlet Thread Size                           | 1/4"-18 NPT     |
| Recommended Air Pressure, PSIG (kPa)            | 90 (620)        |
| Recommended Hose Size, inches (mm)              | 3/8 (10)        |
| Vibration Level, m/s <sup>2</sup>               | <2.86           |
| Sound Level dB(A) Pressure                      | 85              |
| Length, inches (mm)                             | 7.3 (185)       |
| Weight, lb (kg)                                 | 3.3 (1.5)       |
| 3" Cutter Wheels (36-Grit) (opt.)               | AT150-20A       |
| 3" Cutter Wheels (54-Grit) (opt.)               | AT150C28A       |

CE

#### AT153 Cut-Off Tool (3") (Blue-Point®)

- Compact size is excellent for accessing areas with limited working space
- Heavy-duty bevel gears for tool longevity
- Indexing adjustable guard controls the direction of sparks
- Spindle lock eliminates the need for special wrenches for fast change of cut-off wheels
- Adjustable built-in regulator easily adjusts up to 17,000 RPM free speed

#### AT150A Cutter



AT153

## AIR: GRINDERS (BluePoint®)

### Grinder (Blue-Point®)

| Specifications                                  | AT415B        |
|---|---------------|
| Wheel Size, inches (mm)                         | 4-1/2 (114)   |
| Rated Power, HP (kW)                            | 0.86 (.64)    |
| Free Speed, RPM                                 | 12,000        |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 3.2 (23) [91] |
| Air Inlet Thread Size                           | 1/4"-18 NPT   |
| Recommended Air Pressure, PSIG (kPa)            | 90 (620)      |
| Recommended Hose Size, inches (mm)              | 3/8 (10)      |
| Vibration Level, m/s <sup>2</sup>               | 5.1           |
| Sound Level dB(A) Pressure                      | 87            |
| Length, inches (mm)                             | 10 (254)      |
| Weight, lb (kg)                                 | 4.2 (1.9)     |
| Grinding Disc Set (optional)                    | AT415A51      |

CE

#### AT415B 4-1/2" Compact Grinder (Blue-Point®)

- Includes (1) grinding disc



AT415B



- Do not use grinders or cut-off tools without the guard
- Do not use grinder accessories above their maximum rated RPM
- Read safety precautions on pages W1 to W4

## AIR: CUTTING TOOLS (Blue-Point®)



AT194A



AT192A

### Reciprocating Saws (Blue-Point®)

| Stock No. | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Air Inlet Thread Size | Recommended Hose Size, inches (mm) | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|-----------------|---|-----------------------|------------------------------------|-----------------------------------|----------------------------|---------------------|-----------------|
| AT192A†   | 11,000          | 1.0 (7) [28]                                    | 1/4"-18 NPT           | 3/8 (10)                           | 10.1                              | 94                         | 9.3 (235)           | 1.75 (0.80)     |
| AT194A†   | 8,250           | 0.7 (5) [20]                                    | 1/4"-18 NPT           | 3/8 (10)                           | <6.6                              | 87                         | 6.7 (175)           | 1 (0.45)        |

† CE

| Stock No. | Description  |
|-----------|--|
| AT190-39C | Bi-Metal Blade Scroll (Blue-Point®)                      |
| AT190-40C | 5 pk 3-3/4" Bi-Metal Scroll Air Saw Blades (Blue-Point®) |
| AT190-41C | Bi-Metal Blade Scroll (Blue-Point®)                      |

#### AT192A High-Speed Reciprocating Saw (Blue-Point®)

- Adjustable blade guard controls cutting depth
- Teflon®-coated piston for smooth operation and durability
- Features a comfort grip handle with a safety lever throttle
- Includes saw and (3) blades (18, 24 and 32 TPI)
- Performs straight or scroll cuts in metal and plastic
- Comfort grip housing for greater control
- Optional 4" long blades are also available

#### AT194A Micro Air Saw (Blue-Point®)

- Compact size for easy access in tight quarters
- Guarded hose extension helps prevent damage to finished surfaces
- Performs straight or scroll cuts in metal and plastic
- Includes bi-metal blades: (1) 18 TPI, (1) 24 TPI, (1) 32 TPI

#### AT190-26 Blade Changing Wrench (Blue-Point®)

## AIR: CUTTING TOOLS (Blue-Point®)



AT195

### Shears (Blue-Point®)

| Stock No. | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Air Inlet Thread Size | Recommended Hose Size, inches (mm) | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|---|-----------------------|------------------------------------|-----------------------------------|----------------------------|---------------------|-----------------|
| AT195     | 4.0 (29) [113]                                  | 1/4"-18 NPT           | 3/8 (10)                           | <2.5                              | 99.6                       | 10 (254)            | 2.8 (1.3)       |

CE

#### AT195 Air Powered Shears (Blue-Point®)

- Pistol grip handle for comfort and accessibility
- Handle exhaust is directed away from the operator
- Ball bearing-mounted rotary air motor for long service
- Lightweight aluminum housing is durable and helps to reduce fatigue
- Built-in speed regulator provides torque control
- Variable-speed trigger for maximum control
- Removable brass filter captures dirt and grit that could clog and damage the impact mechanism
- Replacement blades: Left blade (AT195-37), center blade (AT195-39B) and right blade (AT195-40B)



## AIR: CUTTING TOOLS (Blue-Point®)



AT180C

### Nibbler (Blue-Point®)

| Stock No. | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Air Inlet Thread Size | Recommended Hose Size, inches (mm) | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) |
|-----------|-----------------|---|-----------------------|------------------------------------|-----------------------------------|----------------------------|---------------------|-----------------|
| AT180C    | 3,500           | 4 (29) [113]                                    | 1/4"-18 NPT           | 3/8 (10)                           | 4.3                               | 97                         | 7.6 (193)           | 1.9 (.88)       |

CE

#### AT180C Nibbler (Blue-Point®)

- Cuts mild steel sheet up to 16-gauge (0.62") (1.55 mm)
- Anvil is adjustable for forward, backward, and left or right cutting
- Readily cuts most non-ferrous materials including aluminum, brass, formica, laminates, fiberglass and masonite
- Replacement Pouch: AT180C-38

## AIR: SANDERS



PSO4525



PSOF4625



PSOF4325



PSO4625



PSDF4600



PSDF4600V

### Orbital and Geared Sanders

| Specifications                                  | PSO4525†    | PSO4625*†   | PSOF4325†         | PSOF4625*†        | PSDF4600      | PSDF4600V     |
|---|-------------|-------------|-------------------|-------------------|---------------|---------------|
| Pad/Disc Size, Dia., inches (mm)                | —           | —           | 3                 | —                 | 6 (152)       | 6 (152)       |
| Style   | Orbital     | Orbital     | Orbital Finishing | Orbital Finishing | Dual-Function | Dual-Function |
| Pattern   | 3/32        | 3/32        | 3/32              | 3/32              | —             | —             |
| Rated Power, HP (kW)                            | .25 (.19)   | .25/ (.19)  | .25/ (.19)        | .25/ (.19)        | —             | —             |
| Free Speed, RPM                                 | 12,000      | 12,000      | 12,000            | 12,000            | 1200          | 1200          |
| Spindle Thread, inches                          | 1/4"-20     | 1/4"-20     | 1/4"-20           | 1/4"-20           | —             | —             |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 2 (14)      | 2 (14)      | 2 (14)            | 2 (14)            | 3 (22) [85]   | 3 (22) [85]   |
| Air Inlet Thread Size                           | 1/4"-18 NPT | 1/4"-18 NPT | 1/4"-18 NPT       | 1/4"-18 NPT       | —             | —             |
| Recommended Hose Size, inches (mm)              | 3/8 (10)    | 3/8 (10)    | 3/8 (10)          | 3/8 (10)          | —             | —             |
| Vibration Level, m/s <sup>2</sup>               | 2.3         | 2.3         | 2.1               | 2.1               | 4.7           | 4.7           |
| Sound Level dB(A) Pressure                      | 75.3        | 75.3        | 74.9              | 74.9              | 78.3          | 78.3          |
| Length, inches (mm)                             | 5 (127)     | 6 (152)     | 3 (76)            | 6 (152)           | 11 (281)      | 11 (281)      |
| Weight, lb (kg)                                 | 1.7 (.77)   | 2.2 (1)     | 1.44 (.65)        | 2.4 (1.1)         | 3.7 (170)     | 3.7 (170)     |
| Replacement Pad/Disc                            | PS4512-1AH  | PS4612-1AH  | PS4612-1AH        | PS4312-1H         | —             | —             |

† CE

#### PSO4525/PSO4625/PSO4325/PSO4625 Orbital Sander

- Low-vibration sander for better performance and less user fatigue
- Kevlar® vanes last longer and help reduce moisture and oil on the work area
- O-ring-sealed motor keeps dust and debris from entering critical components
- Field replaceable motor allows for motor replacement on the spot
- Powerful .25 HP motor generates 12,000 RPM for plenty of power
- Precision balanced crank and robust spindle provide a smooth operation with minimal vibration
- Adjustable top grip allows the end user to customize the position to their preferred setting

- Multiposition speed regulator lets the user dial in the precise speed for each application
- Ergonomic S-shaped paddle fits the hand better than flat levers

#### PSDF4600 6" Dual-Function Sander

#### PSDF4600V 6" Dual-Function Sander with Vacuum

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Do not use grinding discs on sanders
- Do not use grinder accessories above their maximum rated RPM
- Read safety precautions on pages W1 to W4

## AIR: SANDERS



PSG4645



PSG4645V



PSG4845



PSG4845V

### Orbital and Geared Sanders

| Specifications                                  | PSG4645           | PSG4645V          | PSG4845           | PSG4845V          |
|---|-------------------|-------------------|-------------------|-------------------|
| Pad/Disc Size, Dia., inches (mm)                | 6 (152)           | 6 (152)           | 8 (203)           | 8 (203)           |
| Style   | Geared (NV)       | Geared (V)        | Geared (NV)       | Geared (V)        |
| Pattern   | 5 mm Epicycloidal | 5 mm Epicycloidal | 5 mm Epicycloidal | 5 mm Epicycloidal |
| Rated Power, HP (kW)                            | 0.42 (.33)        | 0.42 (.33)        | 0.42 (.33)        | 0.42 (.33)        |
| Free Speed, RPM                                 | 1,000             | 1,000             | 1,000             | 1,000             |
| Spindle Thread, inches                          | 3/8               | 3/8               | 3/8               | 3/8               |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 3 (21.7) [85]     | 3 (21.7) [85]     | 3 (21.7) [85]     | 3 (21.7) [85]     |
| Air Inlet Thread Size                           | 1/4"-18 NPT       | 1/4"-18 NPT       | 1/4"-18 NPT       | 1/4"-18 NPT       |
| Recommended Hose Size, inches (mm)              | 3/8 (10)          | 3/8 (10)          | 3/8 (10)          | 3/8 (10)          |
| Vibration Level, m/s <sup>2</sup>               | 5.9               | 5.9               | 5.9               | 5.9               |
| Sound Level dB(A) Pressure                      | 80                | 80                | 80                | 80                |
| Length, inches (mm)                             | 11 (281)          | 11 (281)          | 11 (281)          | 11 (281)          |
| Weight, lb (kg)                                 | 3.7 (1.70)        | 3.7 (1.70)        | 4 (1.82)          | 4 (1.82)          |
| Replacement Pad/Disc                            | PS468-34          | PS468-34V         | PS468-35          | PS468-35V         |
| Pad (VELCRO®/optional)                          | PS468-34HL        | PS468-34HL        | PS468-35HL        | PS468-35HL        |

CE

#### PSG4645 6" Geared Sander

- Patented dust shield keeps dirt and dust out of the motor for longer tool life
- Ergonomic adjustable handle adjusts to fit the user's hand for more comfort
- Robust front spindle and balanced crank help reduce vibration while sanding for less user fatigue
- Eight-vane steel rotor provides more power for tough jobs
- Steel-cut gears provide better durability for less wear and tear
- One-piece lightweight housing with soft grip material for comfort and maximum vibration absorption
- Ergonomic throttle lever and built-in speed regulator for consistent performance
- Includes non-vacuum PSA pad
- VELCRO® Brand pad is optional
- Optional vacuum model (PSOG4645V) also available

#### PSG4645V 6" Geared Sander with Vacuum

#### PSG4845 8" Geared Sander

- Removes and levels large amounts of filler materials such as glue or epoxy
- Levels small welds
- Removes coatings prior to painting
- For use on metal, solid surfaces, wood and fiberglass
- Super-ergonomic adjustable grip is indexable to multiple positions for optimum comfort
- Soft grip housing material for maximum vibration absorption

#### PSG4845V 8" Geared Sander with Vacuum



AT408



AT411A

## Dual-Action and Geared Sanders (Blue-Point®)

| Specifications                                  | AT408        | AT411A           |
|---|--------------|------------------|
| Style   | Geared (NV)  | Dual Action      |
| Pad/Disc Size, Dia., inches (mm)                | 8 (203)      | 6 (152)          |
| Rated Power, HP (kW)                            | 0.5 (.37)    | 0.5 (.37)        |
| Free Speed, RPM                                 | 850          | 10,000           |
| Spindle Thread, inches                          | 5/16"-24     | 5/16"-18 UNC     |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 5 (36) [142] | 5 (36) [142]     |
| Air Inlet Thread Size                           | 1/4"-18 NPT  | 1/4"-18 NPT      |
| Recommended Hose Size, inches (mm)              | 3/8 (10)     | 3/8 (10) ID min. |
| Vibration Level, m/s <sup>2</sup>               | 3.7          | 3.7              |
| Sound Level dB(A) Pressure                      | 87           | 79               |
| Length, inches (mm)                             | 11 (281)     | 8 (203)          |
| Weight, lb (kg)                                 | 4.8 (2.18)   | 4.7 (2.14)       |
| Replacement Pad/Disc                            | AT408-2      | AT411A-1         |

CE

### AT408 8" Geared Sander (Blue-Point®)

- Rear diffused exhaust
- Built-in adjustable-speed regulator
- Removable brass filter screens out debris

### AT411A 6" Dual-Action Sander (Blue-Point®)

- Used for fine sanding operations and swirl-free finishing
- Comfort handle helps reduce fatigue
- Converts from rotary to random orbit action by sliding drive plate
- Built-in thumb-wheel speed regulator



AT406C

## Orbital Sanders(Blue-Point®)

| Specifications                                  | AT406C        |
|---|---------------|
| Pad/Disc Size, Dia., inches (mm)                | 6 (152)       |
| Rated Power, HP (kW)                            | .25 (.19)     |
| Free Speed, RPM                                 | 12,000        |
| Spindle Thread, inches                          | 5/16"-24      |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 2.5 (18) [71] |
| Vibration Level, m/s <sup>2</sup>               | 2.8           |
| Sound Level dB(A) Pressure                      | 85            |
| Length, inches (mm)                             | 8.6 (21.9)    |
| Weight, lb (kg)                                 | 1.5 (0.7)     |

### AT406C 6" Orbital Palm Sander (Blue-Point®)

- Lightweight and durable composite housing
- Built-on power regulator for optimized power control
- Well-balanced for smooth handling
- For use with accessories rated above 12,000 RPM

## Replacement Sander Pads

### PSO4625-2H 6" Sander Replacement Pad

- Non-vacuum replacement pad for PS4612/PSF4612 sander with VELCRO® Brand fasteners



AT425R

## Reversible Disc Sander (Blue-Point®)

| Specifications                                  | AT425R              |
|---|---------------------|
| Style   | Reversible Hi-Speed |
| Pad/Disc Size, Dia., inches (mm)                | 5 (127)             |
| Rated Power, HP (kW)                            | 0.45 (.33)          |
| Free Speed, RPM                                 | 13,000              |
| Spindle Thread, inches                          | 7/16"-20 UNC        |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4.3 (31) [122]      |
| Air Inlet Thread Size                           | 1/4"-18 NPT         |
| Recommended Hose Size, inches (mm)              | 3/8 (10)            |
| Vibration Level, m/s <sup>2</sup>               | <0.8                |
| Sound Level dB(A) Pressure                      | 93                  |
| Length, inches (mm)                             | 5.3 (135)           |
| Weight, lb (kg)                                 | 2.8 (1.28)          |
| Replacement Pad/Disc                            | AT425R-24           |
| 3" Replacement Pad (opt.)                       | AT425R-22           |
| 4" Replacement Pad (opt.)                       | AT425R-23           |

CE

### AT425R 5" Reversible High-Speed Sander (Blue-Point®)

- Used in body shops and other general automotive applications
- Comfort grip handle
- Built-in speed regulator
- One-handed forward/reverse lever
- Includes (3) backing discs: 3, 4 and 5"



AT475A

## In Line Sanders (Blue-Point®)

| Specifications                                  | AT475A           |
|---|------------------|
| Pad/Disc Size, Dia., inches (mm)                | 2-3/4 x 17-1/2   |
| Free Speed, RPM                                 | 1,800            |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 2.3 (17) [65]    |
| Air Inlet Thread Size                           | 1/4"-18 NPT      |
| Recommended Hose Size, inches (mm)              | 3/8 (10) ID min. |
| Vibration Level, m/s <sup>2</sup>               | 14.9             |
| Sound Level dB(A) Pressure                      | 87               |
| Length, inches (mm)                             | 16 (406)         |
| Weight, lb (kg)                                 | 6.8 (3.09)       |
| Replacement Pad/Disc                            | AT475A-29        |

CE

### AT475A 16" Heavy-Duty Inline Sander (Blue-Point®)

- 5/8" stroke
- Minimal vibration
- Used for fast material removal
- Pad has positive locking clamps



- Do not use grinding discs on sanders
- Read safety precautions on pages W1 to W4

## AIR: FINISHING TOOLS (Blue-Point®)



ATBA1218120



AT615K

### Sanding Belts

| Stock No.   | Type               | Size       | Grit | Package Quantity |
|-------------|--------------------|------------|------|------------------|
| ATBA381860  | Coated Abrasive    | 3/8" x 18" | 60   | 5 Each           |
| ATBA381880  | Coated Abrasive    | 3/8" x 18" | 80   | 5 Each           |
| ATBA3818120 | Coated Abrasive    | 3/8" x 18" | 120  | 5 Each           |
| ATBA121860  | Coated Abrasive    | 1/2 x 18"  | 60   | 5 Each           |
| ATBA121880  | Coated Abrasive    | 1/2 x 18"  | 80   | 5 Each           |
| ATBA1218120 | Coated Abrasive    | 1/2 x 18"  | 120  | 5 Each           |
| ATBA341860  | Coated Abrasive    | 3/4 x 18"  | 60   | 5 Each           |
| ATBA341880  | Coated Abrasive    | 3/4 x 18"  | 80   | 5 Each           |
| ATBA3418120 | Coated Abrasive    | 3/4 x 18"  | 120  | 5 Each           |
| ATBB121850  | Non-Woven Abrasive | 1/2 x 18"  | 50   | 5 Each           |
| ATBB1218100 | Non-Woven Abrasive | 1/2 x 18"  | 100  | 5 Each           |
| ATBB1218240 | Non-Woven Abrasive | 1/2 x 18"  | 240  | 5 Each           |
| ATBB341850  | Non-Woven Abrasive | 3/4 x 18"  | 50   | 5 Each           |
| ATBB3418100 | Non-Woven Abrasive | 3/4 x 18"  | 100  | 5 Each           |
| ATBB3418240 | Non-Woven Abrasive | 3/4 x 18"  | 240  | 5 Each           |
| ATBB381850  | Non-Woven Abrasive | 3/4 x 18"  | 50   | 5 Each           |
| ATBB3818100 | Non-Woven Abrasive | 3/4 x 18"  | 100  | 5 Each           |
| ATBB3818240 | Non-Woven Abrasive | 3/4 x 18"  | 240  | 5 Each           |

#### AT615K Belt Sander Kit

- Includes belt sander, (3) 18 x 3/8" sanding belts (60-, 80-, 120-grit), (3) 18 x 1/2" sanding belts (60-, 80-, 120-grit) and (3) 18 x 3/4" sanding belts (60-, 80-, 120-grit)

#### AT615ARM1 Contact Arm Assembly (1" D x 3/8" W; rubber)

- Used with the AT615 Belt Sander

#### AT615ARM2 Contact Arm Assembly (3/4" D x 3/8" W; rubber)

- Used with the AT615 Belt Sander

#### AT615ARM3 Contact Arm Assembly (3/4" D x 5/8" W)

- Used with the AT615 Belt Sander

#### AT615-31 Collet Assembly (1/4")

- Optional 1/4" collet assembly for use with the AT615 Belt Sander

#### AT615KPB Storage Case

- Storage case for the AT615K Belt Sander Kit



AT240



AT265A



AT1212A

### Tire Buffer

#### AT240 Tire Buffer (Blue-Point®)

- Used for tire patch preparation, roughing up rubber for tire recaps plus removing excess rubber
- Speed regulator for improved tool control
- Comfort grip housing for reduced operator fatigue
- Rear exhaust directs air away from the work
- Semicircle buffing wheel for maximum surface preparation

### Pinstripe Removal Tool

#### AT265A Pinstripe Removal Tool (Blue-Point®)

- Used to remove pinstripes, adhesive, tape and graffiti
- Includes (3) 3-1/2" eraser pads to keep you working longer
- Eraser-design step-pad for improved visibility during operation
- Comfort grip handle for less fatigue
- Auxiliary side handle for improved tool control

#### AT265E Eraser

### Needle Scaler

#### AT1212A Mini Needle Scaler (Blue-Point®)

- Mini size for access in confined areas
- (12) high-tension steel needles conform to any irregular surface for cleaning crevices
- Smooth palm-controlled trigger mechanism for ease of operation

#### AT1212A-16 Needles (12 pk)

| Stock No. | Type             | Rated Power, HP (kW) | Free Speed, RPM | Air Consumption, Free Speed, CFM (SCFM) [l/min] | Vibration Level, m/s <sup>2</sup> | Sound Level dB(A) Pressure | Length, inches (mm) | Weight, lb (kg) | Replacement |
|-----------|------------------|----------------------|-----------------|---|-----------------------------------|----------------------------|---------------------|-----------------|-------------|
| AT240     | —                | 0.4 (.298)           | 2,600           | 3.7 (26.6) [104.7]                              | 1.18                              | 89                         | 9.1 (233)           | 1.8 (.82)       | AT240WHL    |
| AT265A    | Material Remover | 0.4 (.298)           | 3,600           | 3.7 (26.6) [104.7]                              | 0.69                              | 88                         | 8.1 (206)           | 1.8 (.82)       | AT265E      |
| AT1212A   | Scaler           | —                    | 4,000 BPM       | 4.0 (11.19) [113]                               | 11.4                              | 90.0                       | 12.5 (318)          | 2.64 (1.20)     | —           |

## Micro Sander and Polisher Kits (Blue-Point®)

| Specifications                                  | AT401MCA           | AT402MCA      | AT403MCA       |
|---|--------------------|---------------|----------------|
| Style   | Micro Surface Prep | Micro Sander  | Micro Polisher |
| Pad/Disc Size, Dia., inches (mm)                | 3 (76)             | 3 (76)        | 3 (76.2)       |
| Rated Power, HP (kW)                            | 0.25 (.19)         | 0.25 (.19)    | 0.25 (.19)     |
| Free Speed, RPM                                 | 15,000             | 15,000        | 6,000          |
| Spindle Thread, inches                          | 1/4"-20            | 5/16"-24 UNF  | 5/16"-24 UNF   |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 2.1 (15) [59]      | 2.1 (15) [59] | 2.2 (16) [62]  |
| Air Inlet Thread Size                           | 1/4"-18 NPT        | 1/4"-18 NPT   | 1/4"-18 NPT    |
| Recommended Hose Size, inches (mm)              | 3/8 (10)           | 3/8 (10)      | 3/8 (10)       |
| Vibration Level, m/s <sup>2</sup>               | <2.5               | <2.5          | <2.5           |
| Sound Level dB(A) Pressure                      | 84                 | 84            | 86             |
| Length, inches (mm)                             | 4.7 (119)          | 5.2 (133)     | 5.6 (143)      |
| Weight, lb (kg)                                 | 0.97 (0.44)        | 1.1 (.50)     | 1.3 (0.60)     |



AT401MCA



AT403MCA



AT402MCA

CE

### AT401MCA, AT402MCA and AT403MCA Micro Series (Blue-Point®)

- Powerful direct drive gear train for greater durability
- Large two-finger trigger for better control
- High-quality bearings for longer tool life
- Composite housing with comfort grip insulates from the cold
- Bottom handle diffused exhaust
- Variable-speed trigger



AT401MCKA



AT402MCKA



AT403MCKA

### AT401MCKA Micro Surface Prep Tool Kit (Blue-Point®)

- Includes AT401MCA Micro Surface Prep Tool, (1) 2" ROLOC® pad, (1) 3" ROLOC® pad, (5) 2" 40 grit pads and (5) 3" 80 grit pads in a storage case

### AT402MCKA Micro Dual-Action Sander Kit (Blue-Point®)

- Includes AT402MCA Micro Sander, (1) 3" Hookit® pad, (25) 3" 180 grit pads, (25) 3" 200 grit pads, (10) 3" 320 grit pads and (10) 3" 800 grit pads in a storage case

### AT403MCKA Micro Polisher Kit (Blue-Point®)

- Includes AT403MCA Micro Polisher, (1) 3" Hookit® pad, (1) 3" wool pad, and (1) 3" foam pad in a storage case

## Portable Dent-Pulling System

| Specifications                                  | PTGR280 ‡             |
|---|-----------------------|
| Style   | Material Removal Tool |
| Rated Power, HP (kW)                            | 0.45 (.33)            |
| Free Speed, RPM                                 | 3,500                 |
| Air Consumption, Free Speed, CFM (SCFM) [l/min] | 4 (28) [113]          |
| Air Inlet Thread Size                           | 1/4"-18 NPT           |
| Recommended Hose Size, inches (mm)              | 3/8 (10)              |
| Vibration Level, m/s <sup>2</sup>               | 2.8                   |
| Sound Level, dB(A)                              | 85                    |
| Length, inches (mm)                             | 12 (304)              |
| Weight, lb (kg)                                 | 2.4 (1.09)            |
| Rubber Eraser Wheel (opt.)                      | PT280303MP3           |



PTGR280

### PTGR280 ‡ Crud Thug® Removal Air Tool

- Quickly removes seam sealers, rust, paint and underbody coatings
- Optional rubber eraser wheel for pinstripe and graphics removal
- Easily removes automotive crud without fumes, heat buildup or surface damage
- Includes (1) fine wire wheel and (1) coarse wire wheel
- Thermally balanced air motor routes air between the housing and liner for cooler tool temperatures and longer life
- Planetary gear system for increased torque
- Ergonomic cushion grip insulates against cold and vibration
- Adjustable exhaust outlet in rear of the tool allows choice of exhaust direction
- 10-position power/speed regulator allows easy RPM adjustment
- Paddle-style trigger for precise speed control



- Use only accessories intended for each air tool
- Do not use accessories above their maximum rated RPM
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR: FINISHING TOOLS

### Polishers (Blue-Point®)

| Specifications                   | AT450DP           |
|----------------------------------|-------------------|
| Style                            | Vertical Polisher |
| Pad Size, inches (mm)            | 7 (177)           |
| Rated Power, HP                  | 0.7               |
| Free Speed RPM                   | 2,500             |
| Spindle Thread Range, inches     | 5/8–11            |
| Air Consumption CFM              | 3.6               |
| Air Inlet Thread Size, NPT       | 1/4–18            |
| Vibration Level m/s <sup>2</sup> | 9                 |
| Sound Level, dB(A)               | 108               |
| Length, inches (mm)              | 16 (406)          |
| Weight, lb (kg)                  | 4.95 (2.25)       |



AT450DP

#### AT450DP 7" Heavy-Duty Vertical Polisher (Blue-Point®)

- Powerful air motor is ideal for sanding and polishing
- Variable-speed throttle for use on a variety of surfaces
- Dual side-handle mounts for optimal control
- Handle grips for increased comfort

#### AT450DP-50 Spanner Wrench



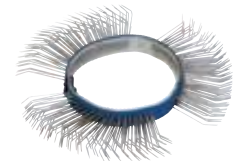
SPPT280-300



PT280-301-11



PT280-303-30



PT280-305-11



PT280-300-11



PT280-302-23



PT280-304-11



PT280-306-11

### Remove-All Tool Accessory Belts

| Stock No.    | Width, mm | Wheel Diameter, inches | Wire Style                                 | Maximum Safe Free Speed, RPM | Application   | Description                                       |
|--------------|-----------|------------------------|--|------------------------------|---|---|
| SPPT280-300  | 23 and 30 | 4.05                   | —  | —                            | Mounts 23 mm and 33 mm Wheels to Tool   | Wheel Hub Set                                     |
| PT280-300-11 | 11        | 4.05                   | —  | 4,000                        | Mounts 11 mm Wire Wheel to Tool   | Hub (Blue-Point®)                                 |
| PT280-301-11 | 11        | 4.05                   | Bent, sharpened spring steel tips          | 4,000                        | Removes Sealers and Coatings/Profiles Steel Surfaces, Roughs Fiberglass, Plastic and Rubber         | Wire Wheel (Coarse) (Blue-Point®)                 |
| PT280-301-23 | 23        | 4.05                   | Bent, sharpened spring steel tips          | 4,000                        | Removes Sealers and Coatings/Profiles Steel Surfaces, Roughs Fiberglass, Plastic and Rubber         | Wire Wheel (Coarse) (Blue-Point®)                 |
| PT280-301MP5 | 23        | 4.05                   | Bent, sharpened hardened spring steel tips | 4,000                        | Removes Sealers and Coatings/Profiles Steel Surfaces, Rough Fiberglass, Plastic and Rubber          | Wire Wheel (Coarse)                               |
| PT280-302-11 | 11        | 4.05                   | Straight, hardened spring steel tips       | 4,000                        | Removes Light Rust, Paint and Gasket Material/ Cleans Contours and Tight Areas                      | Wire Wheel (Fine) (Blue-Point®)                   |
| PT280-302-23 | 23        | 4.05                   | Straight, hardened spring steel tips       | 4,000                        | Removes Light Rust, Paint and Gasket Material/ Cleans Contours and Tight Areas                      | Wire Wheel (Fine) (Blue-Point®)                   |
| PT280-302MP5 | 23        | 4.05                   | Straight, hardened spring steel tips       | 4,000                        | Removes Light Rust, Paint and Gasket Material/ Cleans Contours and Tight Areas                      | Wire Wheel (Fine)                                 |
| PT280-303-30 | 30        | 4.13                   | —  | 3,500                        | Removes Vinyl, Decals and Pinstripes, Reflective and Dot Tape, Molding and Adhesive Tape            | Rubber Eraser Wheel (Blue-Point®)                 |
| PT280-303MP3 | 30        | 4.13                   | —  | 3,500                        | Removes Vinyl, Decals and Pinstripes, along with Reflective and Dot Tape, Molding and Adhesive Tape | Rubber Eraser Wheel (Blue-Point®)                 |
| PT280-304-11 | 11        | 4.05                   | Straight, hardened stainless-steel tips    | 4,000                        | Removes Paint, Oxidation and Liquid Gaskets/ Cleans Weld Seams and Rivets                           | Stainless Steel Wire Wheel (Fine) (Blue-Point®)   |
| PT280-304-23 | 23        | 4.05                   | Straight tip stainless-steel               | 4,000                        | Removes Paint, Oxidation and Liquid Gaskets/ Cleans Weld Seams and Rivets                           | Stainless Steel Wire Wheel (Fine)                 |
| PT280-305-11 | 11        | 4.05                   | Bent, sharpened stainless-steel tips       | 4,000                        | Removes Paint, Corrosion, Cleans Weld Seams, Burn and Slag/Effective for Non-Ferrous Metals         | Stainless Steel Wire Wheel (Coarse) (Blue-Point®) |
| PT280-305-23 | 23        | 4.05                   | Bent, sharpened stainless-steel tips       | 4,000                        | Removes Paint, Corrosion, Cleans Weld Seams, Burn and Slag/Effective for Non-Ferrous Metals         | Stainless Steel Wire Wheel (Coarse)               |
| PT280-306-11 | 11        | 4.05                   | Bent, sharpened spring steel tips          | 4,000                        | Remove Heavy Rust, Paint, Epoxy and Marine Growth/Profiles Aluminum Surfaces                        | Wire Wheel (Medium) (Blue-Point®)                 |
| PT280-306-23 | 23        | 4.05                   | Bent, sharpened spring steel tips          | 4,000                        | Removes Heavy Rust, Paint, Epoxy and Marine Growth/Profiles Aluminum Surfaces                       | Wire Wheel (Medium) (Blue-Point®)                 |

# ACCESSORIES

OUR POWER TOOLS FEATURE AN ABUNDANCE OF SUPERIOR ENGINEERING AND MANUFACTURING DETAILS. THEY'RE ALSO COMPLEMENTED WITH AN ABUNDANT RANGE OF ACCESSORIES TO MAKE THEM PERFORM EVEN BETTER.

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## ADDED ACCESSORIES MEANS ADDED PRODUCTIVITY.

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Chisel bits with a Zinc Clear Chromate finish that provides bright plating for greater visibility and increased life. Extremely lightweight and maneuverable air hoses. Premium-grade oil and protective boots. These are just some of the engineering advancements that are specifically designed to complement and enhance our air and cordless tools.

## AIR/CORDLESS TOOL BOOTS



AT670BBOOT



YA972



MG725BBOOT



MG325BBOOT



YA975



PH3050RBOOT



YA888



FAR7000BBOOT

### Protective Boots

| Description                  | Size                                  | Air Tool Stock No.    | Stock No.     |
|------------------------------|---------------------------------------|-----------------------|---------------|
| Air Impact Wrench Boots      | 3/4" Sq. Drive                        | AT670                 | AT670BBOOT    |
|                              |                                       | AT760                 | AT760BBOOT    |
|                              |                                       | AT775, AT775L         | YA979         |
|                              |                                       | MG1200, MG1250 Series | MG1200BBOOT   |
|                              | 1/2" Sq. Drive                        | AT123 Series          | AT123-45      |
|                              |                                       | AT500C, AT500D        | YA972         |
|                              |                                       | AT5500                | AT5500BBOOT   |
|                              |                                       | AT5500T               | AT5500TBBOOT  |
|                              |                                       | AT560                 | AT560BBOOT    |
|                              |                                       | AT570                 | AT570BBOOT    |
|                              |                                       | AT600                 | AT600-23      |
|                              |                                       | IMC500                | IMC500BBOOT   |
|                              |                                       | PT850                 | PT850BBOOT*   |
|                              |                                       | PT850BBOOTBK          | PT850BBOOTBK  |
|                              | 3/8" Sq. Drive                        | MG725 Series          | MG725BBOOT*   |
|                              |                                       | AT321                 | AT321-44      |
|                              |                                       | AT355A                | YA977         |
|                              |                                       | AT360                 | AT360-25      |
|                              |                                       | AT365                 | AT365BBOOT    |
|                              |                                       | AT370                 | AT370BBOOT    |
| 1/4" Sq. Drive               | MG31                                  | MG31BBOOT             |               |
|                              | MG325 Series                          | MG325BBOOT*           |               |
|                              | AT225B Series                         | YA975                 |               |
|                              |                                       |                       |               |
| Cordless Impact Wrench Boots | 1/2" Sq. Drive                        | CT6850 Series         | CT6850MBBBOOT |
|                              |                                       |                       | CT6850MPBBOOT |
|                              |                                       |                       | CT6850MRBBOOT |
|                              |                                       |                       | CT6850OBBOOT  |
|                              | CT8850, CT6818 Series                 | CT8850BBOOT           |               |
| 1/2" and 3/8" Sq. Drive      | CT8815, CT4415, CT8810, CT4818 Series | CT8810BBOOT           |               |
| 3/8" Sq. Drive               | CT761 Series                          | CT761BBOOT            |               |

| Description                         | Size           | Air Tool Stock No.       | Stock No.                     |
|-------------------------------------|----------------|--------------------------|-------------------------------|
| Air Hammer Boot                     | —              | PH2045 / PH2050          | YA20500                       |
|                                     |                | PH3050, PH3050A, PH3050B | PH3050RBOOT                   |
| Air Drill Boot (Blue-Point®)        | 3/8" Capacity  | AT5000                   | AT5000BBOOT                   |
| Air Drill Boot                      | —              | PDR3A, PDR3000, PDR3001  | YA883                         |
|                                     | —              | PDR5A, PDR5000, PDR5001  | YA885                         |
| Air Ratchet Boots                   | 1/4" Sq. Drive | FAR25, FAR25A            | YA888                         |
|                                     | 3/8" Sq. Drive | FAR7000                  | FAR7000BBOOT                  |
| 14.4 V Ni-Cad Battery Battery Boots | 14.4 V         | CTB4145, CTB4147 Series  | CTB4147<br>CTB4145BBOOT       |
|                                     |                | CTB4185, CTB4187 Series  | CTB4185BBOOT                  |
|                                     | 14.4 V         | CTB8172 Series Batteries | CTB8172BBOOT*<br>CTB8172BKBOT |
|                                     | 18 V           | CTB7185, CTB8185         | CTB8185BBOOT                  |
|                                     | 14.4 V         | —                        | CTLMAG-BOOT                   |

\*Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





**PTND4KA**



**PTND5K**



**PTNDM4KA**

**Magnetic Power Nut Drivers**

- Magnets keep ferrous metal fasteners positioned in the driver
- High-grade alloy material for long-lasting durability
- Storage case keeps tools organized under the hood and on the bench

| Stock No.         | Description  |
|-------------------|--|
| <b>PTND4KA516</b> | 5/16 SAE Magnetic Power Nut Setter                   |
| <b>PTND4KA14</b>  | 1/4" SAE Magnetic Power Nut Setter (Blue-Point®)     |
| <b>PTND4KA12</b>  | 1/2" SAE Magnetic Power Nut Setter                   |
| <b>PTND4KA38</b>  | 3/8" SAE Magnetic Power Nut Setter (Blue-Point®)     |
| <b>PTNDM4KA8</b>  | 8 mm Metric Magnetic Power Nut Setter (Blue-Point®)  |
| <b>PTNDM4KA10</b> | 10 mm Metric Magnetic Power Nut Setter (Blue-Point®) |
| <b>PTNDM4KA12</b> | 12 mm Metric Magnetic Power Nut Setter               |
| <b>PTNDM4KA14</b> | 14 mm Metric Magnetic Power Nut Setter (Blue-Point®) |
| <b>PTND5K716</b>  | 7/16" SAE Magnetic Power Nut Setter (Blue-Point®)    |

**PTND4KA 4 pc SAE Magnetic Power Nut Setter Set**

- Includes (4) magnetic power nut setters (1/4, 5/16, 3/8 and 1/2") in a storage case

**PTND5K 5 pc SAE Magnetic Nut Driver Set (Blue-Point®)**

- Includes (5) magnetic power nut setters (1/4, 5/16, 3/8, 7/16 and 1/2") in a storage case

**PTNDM4KA 4 pc Metric Magnetic Power Nut Setter Set**

- Includes (4) magnetic power nut setters (8, 10, 12 and 14 mm) in a storage case



**DC15014**



**DC15038**



**DCBP500**



**PD30-3**



**AT3000-26**

**Drill Accessories**

**AT3000-26 3/8" Keyless Chuck**

- Use for AT3000 air drill

**AT5000-6 Drill Chuck**

- 1/2" keyed chuck fits AT5000
- Thread size 1/2"-20; Capacity 1/16" 1/2"
- Key not included

**AT5000-6-1 Chuck Key**

- 1/2" chuck key for AT5000

**AT825-7 Chuck Key**

- Chuck Key, 1/4"

**DC15014 1/4" Drill Chuck (Blue-Point®)**

- Converts 1/4" drive impact wrenches to three-jaw, drill type chuck operation for impact drilling

**DC15038 3/8" Drill Chuck (Blue-Point®)**

- Converts 3/8" drive impact wrenches to three-jaw, drill type chuck operation for impact drilling

**DC205989 S2A Chuck Key**

- Use for DC208881 drill chuck

**DC317255 3/8" Drill Chuck (For PDR3A)**

- 3/8" chuck fits AT3000 drill
- Thread size 3/8"-24; Capacity 1/32" 3/8"
- Includes PD3A3 chuck key

**DC64527 1/2" Drill Chuck**

- 1/2" chuck fits AT3000 drill
- Thread size 3/8"-24; Capacity 1/16"-1/2"
- Includes PD30-3 chuck key

**DCBP500 1/2" Keyless Chuck**

- Use on AT5000 air drill

**PD30-3 Chuck Key**

- For PDR3A drill

**PD3A3 Chuck Key**

- 3/8" chuck key for PDR3A and AT800 drills

| Stock No.         | Description         |
|-------------------|---------------------|
| <b>DC15014</b>    | Drill Chuck         |
| <b>DC15038</b>    | Drill Chuck         |
| <b>AT5000-6</b>   | Drill Chuck         |
| <b>PDR5-2A</b>    | 1/2" Jacob's Chuck  |
| <b>DCBP500</b>    | Keyless Drill Chuck |
| <b>PD30-3</b>     | Chuck Key           |
| <b>PD3A3</b>      | Chuck Key           |
| <b>AT5000-6-1</b> | Chuck Key           |
| <b>DC205989</b>   | S2A Chuck Key       |
| <b>AT3000-26</b>  | Keyless Chuck       |
| <b>AT825-7</b>    | Chuck Key           |
| <b>DC317255</b>   | Drill Chuck         |
| <b>DC64527</b>    | Drill Chuck         |



• Read safety precautions on pages W1 to W4

## DRILL ACCESSORIES



BTSS620

### Double Square Bit

#### BTSS620 Double Square Power Bit

- Provides extra clearance and minimizes tool contact with the work surface
- Minimizes potential damage to painted panels on RVs and trailers
- Ideal for use with all types of drills
- 6" long

### DC150 8 pc Chuck Set (Blue-Point®)

- Includes 1/4" and 3/8" drill chucks, a chuck key and (5) stubby drill bits in 1/8, 3/16, 1/4, 5/16 and 3/8" sizes
- Includes a storage case



DC150

### PDAH1A Auxiliary Handle

- Provides two-handed power and control when used in conjunction with air drills



PDAH1A

## BIT SETS (BLUE-POINT®)



YA52PBSQC

### Power Bit Sets

#### YA52PBSQC 52 pc Power Bit Set (Blue-Point®)

- Ideal for use with cordless drills and screwdrivers
- Includes (7) six-lobe star (tamper-proof) insert bits, (3) square insert bits, (4) PHILLIPS® insert bits, (4) slotted insert bits, (7) hex insert bits, (2) clutch insert bits, (6) six-lobe star (tamper-proof) power bits, (3) square power bits, (3) PHILLIPS® power bits, (3) slotted power bits, (3) hex power bits, (3) socket adaptors, (1) quick-change chuck, (2) PHILLIPS® double end bits and (1) square bit holder in a storage case



CTS561BITSET

#### CTS561BITSET 23 pc 1/4" Drive Quick-Change Bit Set (Blue-Point®)

- For Snap-on® cordless screwdrivers, plus other power drivers
- Quick-change hex saves time changing bits
- Manufactured from industrial-grade tool steel
- Includes (22) bits (all 3" long), plus a 1/4" square drive (2" long)
- Includes PHILLIPS® bits #0, #1, #2; flat tip bits 5/32", 3/16", 7/16", 1/4", 9/32"; TORX® bits T10, T15, T20, T25, T27, T30, T40; hex bits 3/32", 7/64, 1/8", 5/32", 3/16", 7/32" and 1/4"
- Includes a storage case



PTB32K

#### PTB32K 32 pc 1/4" Hex Shank Power Bit Set (Blue-Point®)

- Ideal for use with cordless drills and screwdrivers
- Includes (2) adaptors, (5) flat tip bits 5/32-9/32," (7) hex bits 3/32-1/4", (4) PHILLIPS® bits 0, 1, 2 and 3, (4) Pozidriv® bits 0, 1, 2 and 3, (7) TORX® tamper-resistant bits T10-T40, (3) square bits 0, 1 and 2
- Storage case clearly indicates bit type and size

**ThunderBit® Cobalt, 135° Split Point**

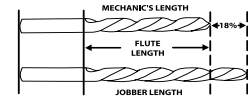
- For drilling at higher speeds in tougher drilling conditions
- Feature 135° split points for easier drill starting without the need for center punching
- Heavy-duty web construction for higher strength and less breakage
- Improved chip ejection through a specially engineered flute design



**DBTBC121**



**DBTBC129**



| Stock No.   | Size, inches | DBTBC121† | DBTBC129† |
|-------------|--------------|-----------|-----------|
| DBTBC1/16†  | 1/16         | •         | •         |
| DBTBC5/64†  | 5/64         | •         | •         |
| DBTBC3/32†  | 3/32         | •         | •         |
| DBTBC7/64†  | 7/64         | •         | •         |
| DBTBC1/8†   | 1/8          | •         | •         |
| DBTBC9/64†  | 9/64         | •         | •         |
| DBTBC5/32†  | 5/32         | •         | •         |
| DBTBC11/64† | 11/64        | •         | •         |
| DBTBC3/16†  | 3/16         | •         | •         |
| DBTBC13/64† | 13/64        | •         | •         |

| Stock No.   | Size, inches | DBTBC121† | DBTBC129† |
|-------------|--------------|-----------|-----------|
| DBTBC7/32†  | 7/32         | •         | •         |
| DBTBC15/64† | 15/64        | •         | •         |
| DBTBC1/4†   | 1/4          | •         | •         |
| DBTBC17/64† | 17/64        | •         | •         |
| DBTBC9/32†  | 9/32         | •         | •         |
| DBTBC19/64† | 19/64        | •         | •         |
| DBTBC5/16†  | 5/16         | •         | •         |
| DBTBC21/64† | 21/64        | •         | •         |
| DBTBC11/32† | 11/32        | •         | •         |
| DBTBC23/64† | 23/64        | •         | •         |

| Stock No.   | Size, inches | DBTBC121† | DBTBC129† |
|-------------|--------------|-----------|-----------|
| DBTBC3/8†   | —            | •         | •         |
| DBTBC25/64† | 25/64        | •         | •         |
| DBTBC13/32† | 13/32        | •         | •         |
| DBTBC27/64† | 27/64        | •         | •         |
| DBTBC7/16†  | 7/16         | •         | •         |
| DBTBC15/32† | 15/32        | •         | •         |
| DBTBC29/64† | 29/64        | •         | •         |
| DBTBC31/64† | 31/64        | •         | •         |
| DBTBC1/2†   | 1/2          | •         | •         |
| B121B†      | —            | •         | •         |
| B129B†      | —            | •         | •         |

**DBTBC121† 21 pc Cobalt ThunderBit® 135° Split Point Drill Bit Set (1/16–3/8")**

- Set contains DBTBC1/16–DBTBC3/8 (21 bits) in B121B metal drill index

**DBTBC129† 29 pc Cobalt ThunderBit® 135° Split Point Drill Bit Set (1/16–1/2")**

- Set contains DBTBC1/16–DBTBC1/2 (29 bits) in B129B metal drill index
- Bits will drill at higher speeds in tougher drilling conditions
- 135° split points for easier drill starting without the need for center punching
- Heavy-duty web construction for higher strength and less breakage
- Improved chip ejection through a specially engineered flute design

**ThunderBit® Metric High-Speed Steel, 135° Split Point**

- 135° split points for easier drill starting without the need for center punching
- Semi-parabolic design provides improved chip and shaving ejection away from the hole to reduce heat on the bit
- Made with M2 premium high-speed steel
- Black and gold finish for multiple applications



**DBTBM125K**

| Stock No. | Size, mm | Length, mm (inches) | DBTBM125K† |
|-----------|----------|---------------------|------------|
| DBTBM1†   | 1        | 41 (1.61)           | •          |
| DBTBM1.5† | 1.5      | 48 (1.89)           | •          |
| DBTBM2†   | 2        | 51 (2.01)           | •          |
| DBTBM2.5† | 2.5      | 60 (2.36)           | •          |
| DBTBM3†   | 3        | 70 (2.76)           | •          |
| DBTBM3.5† | 3.5      | 73 (2.87)           | •          |
| DBTBM4†   | 4        | 83 (3.27)           | •          |
| DBTBM4.5† | 4.5      | 86 (3.39)           | •          |
| DBTBM5†   | 5        | 92 (3.62)           | •          |

| Stock No. | Size, mm | Length, mm (inches) | DBTBM125K† |
|-----------|----------|---------------------|------------|
| DBTBM5.5† | 5.5      | 95 (3.74)           | •          |
| DBTBM6†   | 6        | 102 (4.02)          | •          |
| DBTBM6.5† | 6.5      | 105 (4.13)          | •          |
| DBTBM7†   | 7        | 105 (4.13)          | •          |
| DBTBM7.5† | 7.5      | 111 (4.37)          | •          |
| DBTBM8†   | 8        | 114 (4.49)          | •          |
| DBTBM8.5† | 8.5      | 121 (4.76)          | •          |
| DBTBM9†   | 9        | 124 (4.88)          | •          |
| DBTBM9.5† | 9.5      | 127 (5)             | •          |

| Stock No.  | Size, mm | Length, mm (inches) | DBTBM125K† |
|------------|----------|---------------------|------------|
| DBTBM10†   | 10       | 130 (5.12)          | •          |
| DBTBM10.5† | 10.5     | 133 (5.24)          | •          |
| DBTBM11†   | 11       | 140 (5.51)          | •          |
| DBTBM11.5† | 11.5     | 143 (5.63)          | •          |
| DBTBM12†   | 12       | 149 (5.87)          | •          |
| DBTBM12.5† | 12.5     | 152 (5.98)          | •          |
| DBTBM13†   | 13       | 152 (5.98)          | •          |



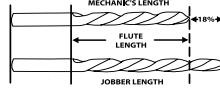
†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## DRILL BITS



DBTB121

DBTB129



### ThunderBit® High Speed Steel, 135° Split Point

- Industrial-grade steel with bronze-oxide surface treatment
- Bits will drill at higher speeds in tougher drilling conditions
- 135° split points for easier drill starting without the need for center punching
- Heavy-duty web construction for higher strength and less breakage
- Improved chip ejection through a specially engineered flute design

| Stock No.  | Size, inches | Set Contains: |          |
|------------|--------------|---------------|----------|
|            |              | DBTB121†      | DBTB129† |
| DBTB1/16‡  | 1/16         | •             | •        |
| DBTB1/2‡   | 1/2          | •             | •        |
| DBTB1/4‡   | 1/4          | •             | •        |
| DBTB1/8‡   | 1/8          | •             | •        |
| DBTB11/32‡ | 11/32        | •             | •        |
| DBTB11/64‡ | 11/64        | •             | •        |
| DBTB13/32‡ | 13/32        | •             | •        |
| DBTB13/64‡ | 13/64        | •             | •        |
| DBTB15/32‡ | 15/32        | •             | •        |
| DBTB15/64‡ | 15/64        | •             | •        |

| Stock No.  | Size, inches | Set Contains: |          |
|------------|--------------|---------------|----------|
|            |              | DBTB121†      | DBTB129† |
| DBTB17/64‡ | 17/64        | •             | •        |
| DBTB19/64‡ | 19/64        | •             | •        |
| DBTB21/64‡ | 21/64        | •             | •        |
| DBTB23/64‡ | 23/64        | •             | •        |
| DBTB25/64‡ | 25/64        | •             | •        |
| DBTB27/64‡ | 27/64        | •             | •        |
| DBTB29/64‡ | 29/64        | •             | •        |
| DBTB3/16‡  | 3/16         | •             | •        |
| DBTB3/32‡  | 3/32         | •             | •        |
| DBTB3/8‡   | 3/8          | •             | •        |

| Stock No.  | Size, inches | Set Contains: |          |
|------------|--------------|---------------|----------|
|            |              | DBTB121†      | DBTB129† |
| DBTB31/64‡ | 31/64        | •             | •        |
| DBTB5/16‡  | 5/16         | •             | •        |
| DBTB5/32‡  | 5/32         | •             | •        |
| DBTB5/64‡  | 5/64         | •             | •        |
| DBTB7/16‡  | 7/16         | •             | •        |
| DBTB7/32‡  | 7/32         | •             | •        |
| DBTB7/64‡  | 7/64         | •             | •        |
| DBTB9/32‡  | 9/32         | •             | •        |
| DBTB9/64‡  | 9/64         | •             | •        |

### Mechanic's Length, 135° Point with Three-Flat Shank



DBTR11



DBTR129

| Stock No.  | Size, inches | Set Contains: |          |
|------------|--------------|---------------|----------|
|            |              | DBTR11†       | DBTR129† |
| DBTR1/16‡  | 1/16         | •             | •        |
| DBTR5/64‡  | 5/64         | •             | •        |
| DBTR3/32‡  | 3/32         | •             | •        |
| DBTR7/64‡  | 7/64         | •             | •        |
| DBTR1/8‡   | 1/8          | •             | •        |
| DBTR9/64‡  | 9/64         | •             | •        |
| DBTR5/32‡  | 5/32         | •             | •        |
| DBTR11/64‡ | 11/64        | •             | •        |
| DBTR3/16‡  | 3/16         | •             | •        |
| DBTR13/64‡ | 13/64        | •             | •        |
| DBTR7/32‡  | 7/32         | •             | •        |
| DBTR15/64‡ | 15/64        | •             | •        |
| DBTR1/4‡   | 1/4          | •             | •        |
| DBTR17/64‡ | 17/64        | •             | •        |
| DBTR9/32‡  | 9/32         | •             | •        |

| Stock No.  | Size, inches                  | Set Contains: |          |
|------------|-------------------------------|---------------|----------|
|            |                               | DBTR11†       | DBTR129† |
| DBTR19/64‡ | 19/64                         | •             | •        |
| DBTR5/16‡  | 5/16                          | •             | •        |
| DBTR21/64‡ | 21/64                         | •             | •        |
| DBTR11/32‡ | 11/32                         | •             | •        |
| DBTR23/64‡ | 23/64                         | •             | •        |
| DBTR3/8‡   | 3/8                           | •             | •        |
| DBTR25/64‡ | 25/64                         | •             | •        |
| DBTR13/32‡ | 13/32                         | •             | •        |
| DBTR27/64‡ | 27/64                         | •             | •        |
| DBTR7/16‡  | 7/16                          | •             | •        |
| DBTR29/64‡ | 29/64                         | •             | •        |
| DBTR15/32‡ | 15/32                         | •             | •        |
| DBTR31/64‡ | 31/64                         | •             | •        |
| DBTR1/2‡   | 1/2                           | •             | •        |
| DBTR11-1†  | Pouch for 11 pc Drill Bit Set |               |          |

#### DBTR11† 11 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set

- Includes (11) high-speed mechanic's length 135° point with three flat shank drill bits (1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32 and 3/8")
- Includes kit bag

#### DBTR129† 29 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set

- Includes (29) drill bits (1/16–1/2")
- Includes metal drill index

**Hole Cutters**

**GA219B Hole Cutter Kit (Blue-Point®)**

- Cuts holes in sheet metal, pipe, plastic and wood up to 1/4" thick
- Special design helps to prevent clogging; cutting doesn't need to be interrupted to clear chips
- Includes (7) high-speed steel cutters (5/16, 3/8, 7/16, 1/2, 9/16, 5/8 and 3/4"), an arbor with a spring-loaded pilot guide, a hex wrench, an extra pilot, stop and spacer washers
- Includes a storage case



**GA219B**

- GA219A1MP3 5/16" Cutter**
- GA219A2MP3 3/8" Cutter**
- GA219A3MP3 7/16" Cutter**
- GA219A4MP3 1/2" Cutter**
- GA219A5MP3 9/16" Cutter**
- GA219A7MP3 5/8" Cutter**
- GA219A10MP3 3/4" Cutter**

- GA219-9A Arbor**
- GA219A9A Arbor for 3/8 and 1/2" Chucks**
- GA219B1 Center Punch**
- GA219A9-2A Ejector Spring**
- GA219A8 Pilot**
- GA219A12 3/8 x 7/8" Stop Washer with Flats**
- GA219A13 Washer 3/8 x 9/16**

**Cobalt Short Length Drill Bits**

DBTRCS11‡  
Set Contains:

| Stock No.    | Length, inches |   |
|--------------|----------------|---|
| DBTRCS1/16‡  | 1.65           | • |
| DBTRCS3/32‡  | 1.79           | • |
| DBTRCS1/8‡   | 1.94           | • |
| DBTRCS5/32‡  | 2.13           | • |
| DBTRCS3/16‡  | 2.25           | • |
| DBTRCS7/32‡  | 2.44           | • |
| DBTRCS1/4‡   | 2.58           | • |
| DBTRCS9/32‡  | 2.77           | • |
| DBTRCS5/16‡  | 2.90           | • |
| DBTRCS11/32‡ | 3.10           | • |
| DBTRCS3/8‡   | 3.24           | • |

**DBTRCS11‡ 11 pc Cobalt Short Length Drill Bit Set**

- Shorter length bits to access tight spaces
- Flats on larger-sized drill bits provide a better grip on the tool in the chuck (3/16–3/8")
- Comes with custom kit bag



**DBTRCS11**

**Jobber Length, 118° Point**

Set Contains:

DB113C‡

DB121C‡

DB129C‡

| Stock No.  | Size, inches | DB113C‡ | DB121C‡ | DB129C‡ |
|------------|--------------|---------|---------|---------|
| DBF1/16C‡  | 1/16         | •       | •       | •       |
| DBF5/64C‡  | 5/64         | •       | •       | •       |
| DBF3/32C‡  | 3/32         | •       | •       | •       |
| DBF7/64C‡  | 7/64         | •       | •       | •       |
| DBF1/8C‡   | 1/8          | •       | •       | •       |
| DBF9/64C‡  | 9/64         | •       | •       | •       |
| DBF5/32C‡  | 5/32         | •       | •       | •       |
| DBF11/64C‡ | 11/64        | •       | •       | •       |
| DBF3/16C‡  | 3/16         | •       | •       | •       |
| DBF13/64C‡ | 13/64        | •       | •       | •       |
| DBF7/32C‡  | 7/32         | •       | •       | •       |
| DBF15/64C‡ | 15/64        | •       | •       | •       |
| DBF1/4C‡   | 1/4          | •       | •       | •       |
| DBF17/64C‡ | 17/64        | •       | •       | •       |
| DBF9/32C‡  | 9/32         | •       | •       | •       |
| DBF19/64C‡ | 19/64        | •       | •       | •       |
| DBF5/16C‡  | 5/16         | •       | •       | •       |
| DBF21/64C‡ | 21/64        | •       | •       | •       |

Set Contains:

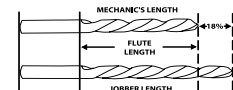
DB113C‡

DB121C‡

DB129C‡

| Stock No.  | Size, inches | DB113C‡ | DB121C‡ | DB129C‡ |
|------------|--------------|---------|---------|---------|
| DBF11/32C‡ | 11/32        |         | •       | •       |
| DBF23/64C‡ | 23/64        |         | •       | •       |
| DBF3/8C‡   | 3/8          |         | •       | •       |
| DBF25/64C‡ | 25/64        |         | •       | •       |
| DBF13/32C‡ | 13/32        |         | •       | •       |
| DBF27/64C‡ | 27/64        |         | •       | •       |
| DBF7/16C‡  | 7/16         |         | •       | •       |
| DBF29/64C‡ | 29/64        |         | •       | •       |
| DBF15/32C‡ | 15/32        |         | •       | •       |
| DBF31/64C‡ | 31/64        |         | •       | •       |
| DBF1/2C‡   | 1/2          |         | •       | •       |
| B113B‡     |              |         | •       |         |
| B121C‡     |              |         | •       |         |
| B121F‡     |              |         |         | •       |
| B129C‡     |              |         |         | •       |
| B129F‡     |              |         |         | •       |
| B129M‡     |              |         |         | •       |

Metal Drill Index



**DB113C**



**DB121C**



**DB129C**

**DB129C‡ 29 pc High-Speed Jobber Length 118° Point Drill Bit Set**

- Includes (29 pc) (1/16–1/2")
- Includes metal drill index

**DB121C‡ 21 pc High-Speed Jobber Length 118° Point Drill Bit Set**

- Includes (21 pc) (1/16–3/8")
- Includes metal drill index

**DB113C‡ 13 pc High-Speed Jobber Length 118° Point Drill Bit Set**

- Includes (13 pc) (1/16–1/4")
- Includes metal drill index



‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

DRILL BITS



DBA126B

Jobber Length, Letter Size, 118° Point

*DBA126B ‡*

Set Contains:

| Stock No. | Decimal Equivalent, inches |   |
|-----------|----------------------------|---|
| DBAA1A ‡  | .234 (A)                   | • |
| DBAA1B ‡  | .238 (B)                   | • |
| DBAA1C ‡  | .242 (C)                   | • |
| DBAA1D ‡  | .246 (D)                   | • |
| DBAA1E ‡  | .250 (E)                   | • |
| DBAA1F ‡  | .257 (F)                   | • |
| DBAA1G ‡  | .261 (G)                   | • |
| DBAA1H ‡  | .266 (H)                   | • |
| DBAA1I ‡  | .272 (I)                   | • |
| DBAA1J ‡  | .277 (J)                   | • |
| DBAA1K ‡  | .281 (K)                   | • |
| DBAA1L ‡  | .290 (L)                   | • |
| DBAA1M ‡  | .295 (M)                   | • |

*DBA126B ‡*

Set Contains:

| Stock No. | Decimal Equivalent, inches |   |
|-----------|----------------------------|---|
| DBAA1N ‡  | .302 (N)                   | • |
| DBAA1O ‡  | .316 (O)                   | • |
| DBAA1P ‡  | .323 (P)                   | • |
| DBAA1Q ‡  | .332 (Q)                   | • |
| DBAA1R ‡  | .339 (R)                   | • |
| DBAA1S ‡  | .348 (S)                   | • |
| DBAA1T ‡  | .358 (T)                   | • |
| DBAA1U ‡  | .368 (U)                   | • |
| DBAA1V ‡  | .377 (V)                   | • |
| DBAA1W ‡  | .386 (W)                   | • |
| DBAA1X ‡  | .397 (X)                   | • |
| DBAA1Y ‡  | .404 (Y)                   | • |
| DBAA1Z ‡  | .413 (Z)                   | • |
| B126C ‡   | Metal Drill Index          | • |

**DBA126B ‡ 26 pc High-Speed Jobber Length Letter Size 118° Point Drill Bit Set**

- Includes (26 pc) (.234–.413") (A–Z)
- Includes metal drill index (B126C)



DBM125C

Jobber Length, Metric, 118° Point

*DBM125C ‡*

Set Contains:

| Stock No. | Size, mm |   |
|-----------|----------|---|
| DBM1A ‡   | 1        | • |
| DBM1.5A ‡ | 1.5      | • |
| DBM2A ‡   | 2        | • |
| DBM2.5A ‡ | 2.5      | • |
| DBM3A ‡   | 3        | • |
| DBM3.5A ‡ | 3.5      | • |
| DBM4A ‡   | 4        | • |
| DBM4.5A ‡ | 4.5      | • |
| DBM5A ‡   | 5        | • |
| DBM5.5A ‡ | 5.5      | • |
| DBM6A ‡   | 6        | • |
| DBM6.5A ‡ | 6.5      | • |
| DBM7A ‡   | 7        | • |

*DBM125C ‡*

Set Contains:

| Stock No.  | Size, mm          |   |
|------------|-------------------|---|
| DBM7.5A ‡  | 7.5               | • |
| DBM8A ‡    | 8                 | • |
| DBM8.5A ‡  | 8.5               | • |
| DBM9A ‡    | 9                 | • |
| DBM9.5A ‡  | 9.5               | • |
| DBM10A ‡   | 10                | • |
| DBM10.5A ‡ | 10.5              | • |
| DBM11A ‡   | 11                | • |
| DBM11.5A ‡ | 11.5              | • |
| DBM12A ‡   | 12                | • |
| DBM12.5A ‡ | 12.5              | • |
| DBM13A ‡   | 13                | • |
| B125C ‡    | Metal Drill Index | • |

**DBM125C ‡ 25 pc Jobber Length Metric Size 118° Point Drill Bit Set**

- Includes (25 pc) (1–13 mm)
- Includes metal drill index (B125C)



DBC260A



DB160C



DB120C

## Wire Gauge, 118° Point (Cobalt and High Speed Steel)

| Set Contains: |                  |                            |                | Set Contains: |            |            |
|---------------|------------------|----------------------------|----------------|---------------|------------|------------|
| DBC260A ‡     |                  |                            |                | DB160C ‡      |            |            |
| Cobalt        | High-Speed Steel | Decimal Equivalent, inches | Length, inches | Cobalt        | High-Speed | High-Speed |
| DBCE1A ‡      | DBE1B ‡          | .2280                      | 3-7/8          | •             | •          |            |
| DBCE2A ‡      | DBE2B ‡          | .2210                      | 3-7/8          | •             | •          |            |
| DBCE3A ‡      | DBE3B ‡          | .2130                      | 3-3/4          | •             | •          |            |
| DBCE4A ‡      | DBE4B ‡          | .2090                      | 3-3/4          | •             | •          |            |
| DBCE5A ‡      | DBE5B ‡          | .2055                      | 3-3/4          | •             | •          |            |
| DBCE6A ‡      | DBE6B ‡          | .2040                      | 3-3/4          | •             | •          |            |
| DBCE7A ‡      | DBE7B ‡          | .2010                      | 3-5/8          | •             | •          |            |
| DBCE8A ‡      | DBE8B ‡          | .1990                      | 3-5/8          | •             | •          |            |
| DBCE9A ‡      | DBE9B ‡          | .1960                      | 3-5/8          | •             | •          |            |
| DBCE10A ‡     | DBE10B ‡         | .1935                      | 3-5/8          | •             | •          |            |
| DBCE11A ‡     | DBE11B ‡         | .1910                      | 3-1/2          | •             | •          |            |
| DBCE12A ‡     | DBE12B ‡         | .1890                      | 3-1/2          | •             | •          |            |
| DBCE13A ‡     | DBE13B ‡         | .1850                      | 3-1/2          | •             | •          |            |
| DBCE14A ‡     | DBE14B ‡         | .1820                      | 3-3/8          | •             | •          |            |
| DBCE15A ‡     | DBE15B ‡         | .1800                      | 3-3/8          | •             | •          |            |
| DBCE16A ‡     | DBE16B ‡         | .1770                      | 3-3/8          | •             | •          |            |
| DBCE17A ‡     | DBE17B ‡         | .1730                      | 3-3/8          | •             | •          |            |
| DBCE18A ‡     | DBE18B ‡         | .1695                      | 3-1/4          | •             | •          |            |
| DBCE19A ‡     | DBE19B ‡         | .1660                      | 3-1/4          | •             | •          |            |
| DBCE20A ‡     | DBE20B ‡         | .1610                      | 3-1/4          | •             | •          |            |
| DBCE21A ‡     | DBE21B ‡         | .1590                      | 3-1/4          | •             | •          |            |
| DBCE22A ‡     | DBE22B ‡         | .1570                      | 3-1/8          | •             | •          |            |
| DBCE23A ‡     | DBE23B ‡         | .1540                      | 3-1/8          | •             | •          |            |
| DBCE24A ‡     | DBE24B ‡         | .1520                      | 3-1/8          | •             | •          |            |
| DBCE25A ‡     | DBE25B ‡         | .1495                      | 3              | •             | •          |            |
| DBCE26A ‡     | DBE26B ‡         | .1470                      | 3              | •             | •          |            |
| DBCE27A ‡     | DBE27B ‡         | .1440                      | 3              | •             | •          |            |
| DBCE28A ‡     | DBE28B ‡         | .1405                      | 2-7/8          | •             | •          |            |
| DBCE29A ‡     | DBE29B ‡         | .1360                      | 2-7/8          | •             | •          |            |
| DBCE30A ‡     | DBE30B ‡         | .1285                      | 2-3/4          | •             | •          |            |
| DBCE31A ‡     | DBE31B ‡         | .1200                      | 2-3/4          | •             | •          |            |
| DBCE32A ‡     | DBE32B ‡         | .1160                      | 2-3/4          | •             | •          |            |
| DBCE33A ‡     | DBE33B ‡         | .1130                      | 2-5/8          | •             | •          |            |
| DBCE34A ‡     | DBE34B ‡         | .1110                      | 2-5/8          | •             | •          |            |
| DBCE35A ‡     | DBE35B ‡         | .1100                      | 2-5/8          | •             | •          |            |
| DBCE36A ‡     | DBE36B ‡         | .1065                      | 2-1/2          | •             | •          |            |
| DBCE37A ‡     | DBE37B ‡         | .1040                      | 2-1/2          | •             | •          |            |
| DBCE38A ‡     | DBE38B ‡         | .1015                      | 2-1/2          | •             | •          |            |
| DBCE39A ‡     | DBE39B ‡         | .0995                      | 2-3/8          | •             | •          |            |
| DBCE40A ‡     | DBE40B ‡         | .0980                      | 2-3/8          | •             | •          |            |

| Set Contains: |                  |                            |                | Set Contains:         |            |            |
|---------------|------------------|----------------------------|----------------|-----------------------|------------|------------|
| DBC260A ‡     |                  |                            |                | DB160C ‡              |            |            |
| Cobalt        | High-Speed Steel | Decimal Equivalent, inches | Length, inches | Cobalt                | High-Speed | High-Speed |
| DBCE41A ‡     | DBE41B ‡         | .0960                      | 2-3/8          | •                     | •          |            |
| DBCE42A ‡     | DBE42B ‡         | .0935                      | 2-1/4          | •                     | •          |            |
| DBCE43A ‡     | DBE43B ‡         | .0890                      | 2-1/4          | •                     | •          |            |
| DBCE44A ‡     | DBE44B ‡         | .0860                      | 2-1/8          | •                     | •          |            |
| DBCE45A ‡     | DBE45B ‡         | .0820                      | 2-1/8          | •                     | •          |            |
| DBCE46A ‡     | DBE46B ‡         | .0810                      | 2-1/8          | •                     | •          |            |
| DBCE47A ‡     | DBE47B ‡         | .0785                      | 2              | •                     | •          |            |
| DBCE48A ‡     | DBE48B ‡         | .0760                      | 2              | •                     | •          |            |
| DBCE49A ‡     | DBE49B ‡         | .0730                      | 2              | •                     | •          |            |
| DBCE50A ‡     | DBE50B ‡         | .0700                      | 2              | •                     | •          |            |
| DBCE51A ‡     | DBE51B ‡         | .0670                      | 2              | •                     | •          |            |
| DBCE52A ‡     | DBE52B ‡         | .0635                      | 1-7/8          | •                     | •          |            |
| DBCE53A ‡     | DBE53B ‡         | .0595                      | 1-7/8          | •                     | •          |            |
| DBCE54A ‡     | DBE54B ‡         | .0550                      | 1-7/8          | •                     | •          |            |
| DBCE55A ‡     | DBE55B ‡         | .0520                      | 1-7/8          | •                     | •          |            |
| DBCE56A ‡     | DBE56B ‡         | .0465                      | 1-3/4          | •                     | •          |            |
| DBCE57A ‡     | DBE57B ‡         | .0430                      | 1-3/4          | •                     | •          |            |
| DBCE58A ‡     | DBE58B ‡         | .0420                      | 1-5/8          | •                     | •          |            |
| DBCE59A ‡     | DBE59B ‡         | .0410                      | 1-5/8          | •                     | •          |            |
| DBCE60A ‡     | DBE60B ‡         | .0400                      | 1-5/8          | •                     | •          |            |
|               | DBE61B ‡         | .0390                      | 1-5/8          |                       |            | •          |
|               | DBE62B ‡         | .0380                      | 1-1/2          |                       |            | •          |
|               | DBE63B ‡         | .0370                      | 1-1/2          |                       |            | •          |
|               | DBE64B ‡         | .0360                      | 1-1/2          |                       |            | •          |
|               | DBE65B ‡         | .0350                      | 1-1/2          |                       |            | •          |
|               | DBE66B ‡         | .0330                      | 1-3/8          |                       |            | •          |
|               | DBE67B ‡         | .0320                      | 1-3/8          |                       |            | •          |
|               | DBE68B ‡         | .0310                      | 1-3/8          |                       |            | •          |
|               | DBE69B ‡         | .0292                      | 1-3/8          |                       |            | •          |
|               | DBE70B ‡         | .0280                      | 1-1/4          |                       |            | •          |
|               | DBE71B ‡         | .0260                      | 1-1/4          |                       |            | •          |
|               | DBE72B ‡         | .0250                      | 1-1/8          |                       |            | •          |
|               | DBE73B ‡         | .0240                      | 1-1/8          |                       |            | •          |
|               | DBE74B ‡         | .0225                      | 1              |                       |            | •          |
|               | DBE75B ‡         | .0210                      | 1              |                       |            | •          |
|               | DBE76B ‡         | .0200                      | 7/8            |                       |            | •          |
|               | DBE77B ‡         | .0180                      | 7/8            |                       |            | •          |
|               | DBE78B ‡         | .0160                      | 7/8            |                       |            | •          |
|               | DBE79B ‡         | .0145                      | 3/4            |                       |            | •          |
|               | DBE80B ‡         | .0135                      | 3/4            |                       |            | •          |
| B160C ‡       |                  |                            |                | Metal Drill Bit Index |            |            |
|               |                  |                            |                | •                     | •          |            |

**DBC260A ‡ 60 pc Cobalt Wire Gauge 118° Point Drill Bit Set**  
 • Includes (60 pc) (.2280–.0400")  
 • Includes metal drill index

**DB160C ‡ 60 pc High-Speed Steel Wire Gauge 118° Point Drill Bit Set**  
 • Includes (60 pc) (.2280–.0400")  
 • Includes metal drill index

**DB120C ‡ 20 pc High-Speed Steel Wire Gauge 118° Point Drill Bit Set**  
 • Includes (20 pc) (.0390–.0135")  
 • Includes metal drill index



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

**DRILL BITS (Blue-Point®)**



**DBBPC21**



**DBBP21**



**DBBPT13**

**Jobber Length, Cobalt, 135° Point (Blue-Point®)**

| Stock No.  | Size, inches | Stock No.  | Size, inches |
|------------|--------------|------------|--------------|
| DBBPC1/16  | 1/16         | DBBPC15/64 | 15/64        |
| DBBPC5/64  | 5/64         | DBBPC1/4   | 1/4          |
| DBBPC3/32  | 3/32         | DBBPC17/64 | 17/64        |
| DBBPC7/64  | 7/64         | DBBPC9/32  | 9/32         |
| DBBPC1/8   | 1/8          | DBBPC19/64 | 19/64        |
| DBBPC9/64  | 9/64         | DBBPC5/16  | 5/16         |
| DBBPC5/32  | 5/32         | DBBPC21/64 | 21/64        |
| DBBPC11/64 | 11/64        | DBBPC11/32 | 11/32        |
| DBBPC3/16  | 3/16         | DBBPC23/64 | 23/64        |
| DBBPC13/64 | 13/64        | DBBPC3/8   | 3/8          |
| DBBPC7/32  | 7/32         |            |              |

**DBBPC21 21 pc Cobalt Drill Bit Set (Blue-Point®)**

- Ideal for drilling low- and medium-carbon steel, plus steel alloy
- 135° split point penetrates on contact and prevents walking of the bit
- Jobber length for access in tight locations
- Cobalt construction for higher temperature applications
- Use CL6 Cutting Oil to maximize drill bit life
- Set contains DBBPC1/16–DBBPC3/8 (1/16–3/8”) in metal drill bit index

**Jobber Length, High-Speed Steel, 135° Point (Blue-Point®)**

| Stock No. | Size, inches | Stock No. | Size, inches |
|-----------|--------------|-----------|--------------|
| DBBP1/16  | 1/16         | DBBP15/64 | 15/64        |
| DBBP5/64  | 5/64         | DBBP1/4   | 1/4          |
| DBBP3/32  | 3/32         | DBBP17/64 | 17/64        |
| DBBP7/64  | 7/64         | DBBP9/32  | 9/32         |
| DBBP1/8   | 1/8          | DBBP19/64 | 19/64        |
| DBBP9/64  | 9/64         | DBBP5/16  | 5/16         |
| DBBP5/32  | 5/32         | DBBP21/64 | 21/64        |
| DBBP11/64 | 11/64        | DBBP11/32 | 11/32        |
| DBBP3/16  | 3/16         | DBBP23/64 | 23/64        |
| DBBP13/64 | 13/64        | DBBP3/8   | 3/8          |
| DBBP7/32  | 7/32         |           |              |

**DBBP21 21 pc HSS Drill Bit Set (Blue-Point®)**

- Includes (21) drill bits (1/16–3/8”)
- Includes metal drill index

**Jobber Length, HSS Titanium Coated, 135° Point (Blue-Point®)**

| Stock No. | Size, inches | Stock No.  | Size, inches |
|-----------|--------------|------------|--------------|
| DBBPT1/16 | 1/16         | DBBPT11/64 | 11/64        |
| DBBPT5/64 | 5/64         | DBBPT3/16  | 3/16         |
| DBBPT3/32 | 3/32         | DBBPT13/64 | 13/64        |
| DBBPT7/64 | 7/64         | DBBPT7/32  | 7/32         |
| DBBPT1/8  | 1/8          | DBBPT15/64 | 15/64        |
| DBBPT9/64 | 9/64         | DBBPT1/4   | 1/4          |
| DBBPT5/32 | 5/32         |            |              |

**DBBPT13 13 pc HSS Titanium-Coated Drill Bit Set (Blue-Point®)**

- Ideal for drilling aluminum, copper, plastic and cast iron
- Titanium-coated high-speed steel for heavy-duty applications
- Designed for increased speed and feed rates
- 135° point
- Titanium coating resists rust
- Use CL6 Cutting Oil to maximize drill bit life
- Set contains DBBPT1/16–DBBPT1/4 (1/16–1/4”) in metal drill bit index



**Double-Ended, 135° Split Point**

Set Contains:

DBD110A ‡

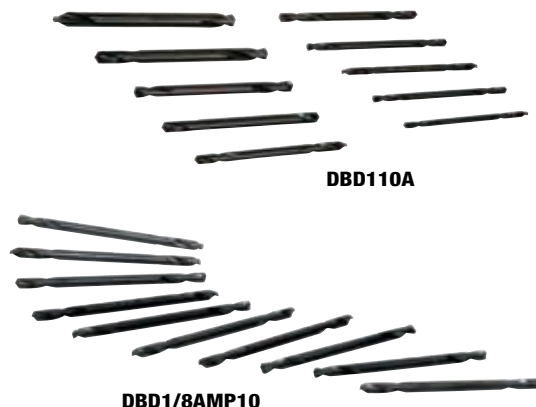
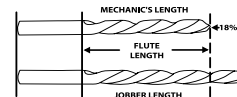
| Stock No.  | Type  | Size  |   |
|------------|---|-------|---|
| DBD7/64A ‡ | 7/64" Double Ended Drill Bit                  | 7/64" | • |
| DBD1/8A ‡  | 1/8" Double Ended 135° Split Point Drill Bit  | 1/8"  | • |
| DBD9/64A ‡ | 9/64" Double Ended Drill Bit                  | 9/64" | • |
| DBD5/32A ‡ | 5/32" Double Ended Drill Bit                  | 5/32" | • |
| DBD3/16A ‡ | 3/16" Double Ended 135° Split Point Drill Bit | 3/16" | • |
| DBD7/32A ‡ | 7/32" Double Ended Drill Bit                  | 7/32" | • |
| DBD1/4A ‡  | 1/4" Double Ended 135° Split Point Drill Bit  | 1/4"  | • |
| DBD11A ‡   | #11 Double Ended Drill Bit                    | #11   | • |
| DBD20A ‡   | #20 Double Ended Drill Bit                    | #20   | • |
| DBD30A ‡   | #30 Double Ended Drill Bit                    | #30   | • |

**DBD110A 10 pc Double-Ended 135° Split Point Drill Bit Set**

- Includes (10 pc) (7/64–1/4", #11, #20 and #30)
- Includes a plastic pouch

**DBD1/8AMP10 ‡ 1/8" Double-Ended 135° Split Point Drill Bit**

- Used for pop rivet applications and drilling thin sheet metal
- 135° split point for fast penetration
- Made from long-lasting high-speed steel
- (10 pk) of DBD1/8A drill bits



**Left-Hand Fractional Drill Bits, High Speed Steel**

- Left-hand drill bits tend to loosen screws for easier removal

| Stock No.   | Size, inches |
|-------------|--------------|
| DBLS1/8B ‡  | 1/8          |
| DBLS3/16B ‡ | 3/16         |
| DBLS1/4B ‡  | 1/4          |

| Stock No.    | Size, inches |
|--------------|--------------|
| DBLS5/16B ‡  | 5/16         |
| DBLS11/32B ‡ | 11/32        |

**DBLS105B ‡ 5 pc Left-Hand High-Speed Drill Bit Set**

- Use left-hand drill bits to make a hole in the broken screw before the extractor is inserted
- Left-hand drill bits tend to loosen screws for easier removal
- Set includes (5) drill bits (1/8–11/32) in a plastic pouch



**Left-Hand Fractional Drill Bits, Cobalt**

- Left-hand drill bits tend to loosen screws for easier removal

Set Contains:

DBCL105B ‡

| Stock No.   | Size, inches |   |
|-------------|--------------|---|
| DBCL5/64B ‡ | 5/64         | • |
| DBCL7/64B ‡ | 7/64         | • |
| DBCL1/8     | 1/8          |   |
| DBCL5/32B ‡ | 5/32         | • |
| DBCL3/16A ‡ | 3/16         |   |
| DBCL7/32    | 7/32         |   |
| DBCL1/4B ‡  | 1/4          | • |
| DBCL9/32A ‡ | 9/32         |   |

Set Contains:

DBCL105B ‡

| Stock No.    | Size, inches |   |
|--------------|--------------|---|
| DBCL19/64B ‡ | 19/64        | • |
| DBCL5/16A ‡  | 5/16         |   |
| DBCL11/32A ‡ | —            |   |
| DBCL3/8A ‡   | 3/8          |   |
| DBCL13/32A ‡ | 13/32        |   |
| DBCL7/16A ‡  | 7/16         |   |
| DBCL15/32A ‡ | 15/32        |   |
| DBCL1/2A ‡   | 1/2          |   |

**DBCL105B 5 pc Left-Hand Cobalt Drill Bit Set**

- Use left-hand drill bits to make a hole in the broken screw before the extractor is inserted
- Left-hand drill bits tend to loosen screws for easier removal
- Set includes DBCL5/64B, DBCL7/64B, DBCL5/32B, DBCL1/4B and DBCL19/64B drill bits in a plastic pouch



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## SPECIALIZED DRILL BITS



DBH11B



DBH7B

### Hex Shank Drill Bits

- Black-oxide finish prevents rust and reduces operating temperature
- 118° point provides fast starts and optimal performance in thin-gauge material
- Hex drive design provides the ability to quickly adapt to all hex drive chucks
- Tapered fit of drill to hex drive shank eliminates bit wobble or runout to provide easier starting and a more precise hole
- Screw machine length allows the bits to be used in tight spaces
- Made in the US

| Stock No. | Size, inches | Set Contains: |       |
|-----------|--------------|---------------|-------|
|           |              | DBH1B         | DBH7B |
| DBH1/16B  | 1/16         | •             | •     |
| DBH3/32B  | 3/32         | •             | •     |
| DBH1/8B   | 1/8          | •             | •     |
| DBH5/32B  | 5/32         | •             | •     |
| DBH3/16B  | 3/16         | •             | •     |
| DBH7/32B  | 7/32         | •             | •     |
| DBH1/4BB  | 1/4          | •             | •     |
| DBH9/32B  | 9/32         | •             |       |
| DBH5/16B  | 5/16         | •             |       |
| DBH11/32B | 11/32        | •             |       |
| DBH3/8B   | 3/8          | •             |       |
| DBH7B-1   | Kit Bag      |               | •     |
| DBH11B-1  | Kit Bag      | •             |       |

### DBH7B 7 pc Hex Shank Drill Bit Set

- Includes (7 pc) DBH1/16B–DBH1/4BB (1/16–1/4") in DBH7B-1 kit bag

### DBH7B-1 Kit Bag

- Fits DBH7B hex shank drill bit set

### DBH11B 11 pc Hex Shank Drill Bit Set

- Includes (11 pc) DBH1/16B–DBH3/8B (1/16–3/8") in DBH11B-1 kit bag

### DBH11B-1 Kit Bag

- Kit bag for DBH11B hex shank drill bit set

### Left-Hand Fractional Drill Bits, Cobalt



DBTRCSL11

| Stock No.      | Size, inches | Set Contains: |  |
|----------------|--------------|---------------|--|
|                |              | DBTRCSL11 ‡   |  |
| DBTRCSL1/16 ‡  | 1/16         | •             |  |
| DBTRCSL3/32 ‡  | 3/32         | •             |  |
| DBTRCSL1/8 ‡   | 1/8          | •             |  |
| DBTRCSL5/32 ‡  | 5/32         | •             |  |
| DBTRCSL3/16 ‡  | —            | •             |  |
| DBTRCSL7/32 ‡  | 7/32         | •             |  |
| DBTRCSL1/4 ‡   | 1/4          | •             |  |
| DBTRCSL9/32 ‡  | 9/32         | •             |  |
| DBTRCSL5/16 ‡  | 5/16         | •             |  |
| DBTRCSL11/32 ‡ | 11/32        | •             |  |
| DBTRCSL3/8 ‡   | 3/8          | •             |  |

### DBTRCSL11 11 pc Left-Hand Cobalt Short Drill Bit Set with Flats

- Screw machine length for getting into smaller areas
- Flats on larger sized drill bits provide a better grip when used with keyless chucks (3/16–3/8")
- Left-hand flute for removing broken bolts
- Cobalt steel for drilling harder materials
- Bit lengths from 1.7–3.1"
- 11 most popular drill sizes in one set
- Includes (11) bits and a kit bag

### 90° Angle Drill Set



YA409

| Size  | Set Contains:             |                             |                          |
|-------|---------------------------|-----------------------------|--------------------------|
|       | 2-1/8" Long Bit Stock No. | 1-1/4" Medium Bit Stock No. | 3/4" Short Bit Stock No. |
| #10   | YA409-10L                 | YA409-10M                   | YA409-10S                |
| #11   | —                         | —                           | YA409-11S                |
| #13   | —                         | —                           | YA409-13S                |
| #20   | —                         | —                           | YA409-20S                |
| #21   | —                         | —                           | YA409-21S                |
| #30   | YA409-30L                 | YA409-30M                   | YA409-30S                |
| 1/8"  | YA409-18L                 | YA409-18M                   | YA409-18S                |
| 3/16" | YA409-316L                | YA409-316M                  | YA409-316S               |
| 3/32" | YA409-332L                | YA409-332M                  | YA409-332S               |
| #40   | YA409-40L                 | YA409-40M                   | YA409-40S                |
| 5/32" | YA409-532L                | YA409-532M                  | YA409-532S               |
| 1/4"  | YA409-14L                 | YA409-14M                   | YA409-14S                |
| —     | YA409-15                  | —                           | —                        |

### YA409 90° Angle Drill Kit (Blue-Point®)

- Allows drilling up to 1/4" holes in confined areas by positioning the bit at a 90° angle to the drill
- Threaded drill bits provide consistent concentricity and eliminate slippage
- Includes
  - YA409 Drive unit; chucking spud
  - YA409-316M 3/16" bit (1-1/4" long)
  - YA409-18L 1/8" bit (2-1/8" long)
  - YA409-332L 3/32" bit (2-1/8" long)
  - YA409-18M 1/8" bit (1-1/4" long)
  - YA409-532M 5/32" bit (1-1/4" long)
  - YA409-18S 1/8" bit (3/4" long)
  - YA409-15 Storage Case

### YA409-6 Threaded Collet (Blue-Point®)

- Allows the use of 1/4" dia. shank grinding burrs and abrasive wheels

**1/2" Reduced-Shank Drill Bit, 118° Point**

- Ideal for cutting in low- and medium-tensile strength materials
- Flatted shank provides a more secure grip for the drill chuck



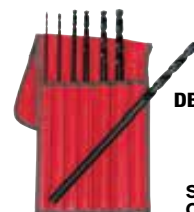
CSE485B

| Stock No. | Size, inches | Stock No. | Size, inches |
|-----------|--------------|-----------|--------------|
| CSE345B ‡ | 17/32        | CSE475* ‡ | 45/64        |
| CSE365B ‡ | 9/16         | CSE485B ‡ | 3/4          |
| CSE375* ‡ | 37/64        | CSE505B ‡ | 25/32        |
| CSE385B ‡ | 19/32        | CSE525B ‡ | 13/16        |
| CSE405B ‡ | 5/8          | CSE565B ‡ | 7/8          |
| CSE425B ‡ | 21/32        | CSE575* ‡ | 59/64        |
| CSE445B ‡ | 11/16        | CSE605B ‡ | 15/16        |
| CSE465B ‡ | 23/32        | CSE645B ‡ | 1            |

\*Use with TDP6 Pipe Tap Set.

**Aircraft Length, 135° Split Point**

Extra-long bits for drilling thick materials.



DBK7A

Set Contains:

DBK7A ‡

| Stock No.  | Size, inches | Flute Length, inches | Length, inches |   |
|------------|--------------|----------------------|----------------|---|
| DBT1/8A ‡  | 1/8          | 1-5/8                | 12             | • |
| DBT3/16A ‡ | 3/16         | 2-1/4                | 12             | • |
| DBT1/4A ‡  | 1/4          | 2-3/4                | 12             | • |
| DBT5/16A ‡ | 5/16         | 3-1/4                | 12             | • |
| DBT3/8A ‡  | 3/8          | 3-3/4                | 12             | • |
| DBT7/16A ‡ | 7/16         | 4                    | 12             | • |
| DBT1/2A ‡  | 1/2          | 4-1/2                | 12             | • |

**Titanium-Nitride Step Drills**

- Titanium-nitride coating creates a surface hardness that makes these tools last 4 to 5 times longer than ordinary drill bits
- Surface coating also reduces friction, resulting in a tool that runs cooler while running dry



YA1TA

| Stock No. | Size Range | Increments | Shank Size, inches (mm) | Hole Sizes Per Bit | Length, inches |
|-----------|------------|------------|-------------------------|--------------------|----------------|
| YA1TA     | 1/8–1/2"   | 1/32"      | 1/4 (6.5)               | 13                 | 3-1/4          |
| YA2TA     | 3/16–1/2"  | 1/16"      | 1/4 (6.5)               | 6                  | 3-1/4          |
| YA4TA     | 3/16–7/8"  | 1/16"      | 3/8 (10)                | 12                 | 3              |
| YA1MTA    | 4–12 mm    | 1 mm       | 1/4 (6.5)               | 9                  | 3-1/4          |
| YA3MTA    | 6–18 mm    | 2 mm       | 3/8 (10)                | 7                  | 2-5/8          |
| YA4MTA    | 4–22 mm    | 2 mm       | 3/8 (10)                | 10                 | 3              |
| YA5MTA    | 5–35 mm    | 2-3 mm     | 1/2 (13)                | 13                 | 3-3/32         |



YA263A

**Step Drills**

Set Contains:

YAS203A

| Stock No. | Size Range, inches | Increments, inches | Shank Size, inches | Hole Sizes Per Bit | Length, inches |
|-----------|--------------------|--------------------|--------------------|--------------------|----------------|
| YA261A    | 1/8–1/2            | 1/32               | 1/4                | 13                 | 3-1/4          |
| YA262A    | 3/16–1/2           | 1/16               | 1/4                | 6                  | 3-3/8          |
| YA265A    | 3/8                | —                  | 1/4                | 1                  | 1-5/8          |
| YA263A    | 1/4–3/4            | 1/16               | 3/8                | 9                  | 2-5/8          |
| YA267A    | 3/16–7/8           | 1/16               | 3/8                | 12                 | 3              |
| YA266A    | 9/16–1             | 1/16               | 1/2                | 8                  | 2-1/2          |

**HOLE SAWS**

**Hole Saws**

- High-speed cutting edge is welded to an alloy steel back to absorb shocks
- Cut clean, accurate holes in steel and cast iron pipe, steel plates, aluminum, copper, brass, stainless steel, wood or plastic
- Side slits make it easy to knock out the spent disks

| Stock No. | Diameter, inches | Recommended Arbors | Stock No. | Diameter, inches | Recommended Arbors |
|-----------|------------------|--------------------|-----------|------------------|--------------------|
| LHS18D    | 9/16             | LHS1C, LHS6C       | LHS48D    | 1-1/2            | LHS3D              |
| LHS20D    | 5/8              | LHS1C, LHS6C       | LHS50D    | 1-9/16           | LHS3D              |
| LHS22D    | 11/16            | LHS1C, LHS6C       | LHS52D    | 1-5/8            | LHS3D              |
| LHS24D    | 3/4              | LHS1C, LHS6C       | LHS54D    | 1-11/16          | LHS3D              |
| LHS26D    | 13/16            | LHS1C, LHS6C       | LHS56D    | 1-3/4            | LHS3D              |
| LHS28D    | 7/8              | LHS1C, LHS6C       | LHS58D    | 1-13/16          | LHS3D              |
| LHS30D    | 15/16            | LHS1C, LHS6C       | LHS60D    | 1-7/8            | LHS3D              |
| LHS32D    | 1                | LHS1C, LHS6C       | LHS64D    | 2                | LHS3D              |
| LHS34D    | 1-1/16           | LHS1C, LHS6C       | LHS66D    | 2-1/16           | LHS3D              |
| LHS36D    | 1-1/8            | LHS1C, LHS6C       | LHS68D    | 2-1/8            | LHS3D              |
| LHS38D    | 1-3/16           | LHS1C, LHS6C       | LHS72D    | 2-1/4            | LHS3D              |
| LHS40D    | 1-1/4            | LHS3D              | LHS76D    | 2-3/8            | LHS3D              |
| LHS42D    | 1-5/16           | LHS3D              | LHS80D    | 2-1/2            | LHS3D              |
| LHS44D    | 1-3/8            | LHS3D              | LHS88D    | 2-3/4            | LHS3D              |
| LHS46D    | 1-7/16           | LHS3D              | LHS96D    | 3                | LHS3D              |

**LHS608B Hole Saw and Arbor Kit**

- Includes LHS44D, LHS48D, LHS56D, LHS64D, LHS80D and LHS96D hole saws, plus LHS6C and LHS3D arbors and LHS8C arbor adaptor (9 pc) in a storage case
- Includes recommended speed charts

**LHS606D 7 pc Hole Saw and Arbor Kit**

- Includes (5) hole saws (1) arbor and (1) arbor adaptor
- Includes recommended speed charts
- Includes a storage case



LHS18D



LHS48D



LHS608B



LHS64D



LHS606D



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## HOLE SAWS



### Hole Saw Arbors and Pilot Drills

| Stock No. | Thread Size  | Fits Saws, inches | Fits Drill Chucks, inches | Replacement Pilot Drill |
|-----------|--|-------------------|---------------------------|-------------------------|
| LHS5C     | 1/2"-20  | 9/16-1-3/16       | 1/4                       | LHS4D                   |
| LHS6C     | 1/2"-20  | 9/16-1-3/16       | 3/8                       | LHS4D                   |
| LHS1C     | 1/2"-20  | 9/16-1-3/16       | 1/2                       | LHS4D                   |
| LHS3D     | 5/8"-18  | 1-1/4-6           | 3/8                       | LHS4D                   |
| LHS8C     | Arbor Adaptor to Convert 1/2"-20 Thread to 5/8"-18 |                   |                           |                         |

## DRILLING ACCESSORIES



DEBUR300

### DEBUR300 Deburring Tool

- Easily deburrs drilled and machined holes
- Push-button locking collet enables quick, easy blade changes
- Includes (3) round-head deburring blades
- Blades store in the handle of tool
- Weighs 1 lb
- 6" long



CL6

### CL6 Cutting Oil

- Superior anti-weld and lubricating properties reduce heat buildup in drill bits, grinding burrs and other metal cutting tools
- 1 pt bottle



YA246A

### YA246A † 13 pc Micro Utility Drill Set (Blue-Point®)

- Knurled surface at the chuck end of the pin vise provides a sure gripping surface
- Long 1-7/8" drill length
- Includes pin vise and (12) precision HSS twist drills from .0635-.0225", numbers 52-74

## SANDER ACCESSORIES

### Micro Tool Accessory Kits



AT401ACCKIT

### AT401ACCKIT Micro Surface Prep Accessory Kit (Blue-Point®)

- 1/4 turn abrasive disc in two different grits helps get the job of removing rust or gasket material done quickly, even in confined areas
- Kit contains all of the consumables needed to restore a Micro Surface Prep Tool Kit back to new
- Includes (1) 2" ROLOC® pad 1/4" x 20T, (1) 3" ROLOC® pad 1/4" x 20T, (5) 2" 40 grit pads and (5) 3" 80 grit pads



AT402ACCKIT

### AT402ACCKIT Micro Dual Action Sander Accessory Kit (Blue-Point®)

- Fresh backing pad with all the sanding disc needed to work the surface down until it is ready for paint
- Kit contains all of the consumables needed to restore a Micro Dual Action Sander Tool Kit back to new
- Includes (1) 3" hook-and-loop pad 5/16" x 24T, (25) 3" 180 grit pads, (25) 3" 220 grit pads, (10) 3" 320 grit pads and (10) 3" 800 grit pads



AT403ACCKIT

### AT403ACCKIT Micro Polisher Accessory Kit (Blue-Point®)

- All the pads needed to go from buffing to final polish
- Kit contains all of the consumables needed to restore a Micro Polisher Tool Kit back to new
- Includes (1) 3" hook-and-loop pad 5/16" x 24T, (1) 3" wool pad and (1) foam waffle pad

## 14.4 V MicroLithium Polishing/Prep Tools



ACR2ALUM36

| Stock No.  | Description                 | Stock No.   | Description                   |
|------------|-----------------------------|-------------|-------------------------------|
| ACR2ALUM36 | 2" ROLOC® Abrasive Disc     | ACR3MEDIUM  | 3" Medium Surface Prep Disc   |
| ACR2ALUM80 | 2" ROLOC® Abrasive Disc     | CTPP761-950 | Disc Pad Wrench               |
| ACR2CLEAN  | 2" Crud Disc                | CTPP761-901 | 3" Foam Pad                   |
| ACR2CORSE  | 2" Coarse Surface Prep Disc | CTPP761-902 | 3" Foam Pad                   |
| ACR2HOLDER | 2" ROLOC® Disc Holder       | CTPP761-903 | 3" Knit Buffing Pad           |
| ACR2MEDIUM | 2" Medium Surface Prep Disc | CTPP761-904 | 3" Sanding Disc, 36 Grit      |
| ACR3ALUM36 | 3" ROLOC® Abrasive Disc     | CTPP761-905 | 3" Sanding Disc, 80 Grit      |
| ACR3ALUM80 | 3" ROLOC® Abrasive Disc     | CTPP761-906 | 2" ROLOC® Blocking Pad        |
| ACR3CLEAN  | 3" Crud Disc                | CTPP761-907 | 2" ROLOC® Medium Surface Disc |
| ACR3CORSE  | 3" Coarse Surface Prep Disc | CTPP761-900 | Disc Pad                      |
| ACR3HOLDER | 3" ROLOC® Disc Holder       | CTPP761-951 | ROLOC® Adaptor                |

# SANDER ACCESSORIES



PS4612-1AH



PS4612V-1AH



PS468-34V



PS468-34HL



PSV4312KIT



AT406CVAC



YA7341

## Replacement Sander Pads

| Stock No.   | Size, inches | Type                    | Style             | Use on             |
|-------------|--------------|-------------------------|-------------------|--------------------|
| PS4312-1H   | 3            | PSA                     | Vacuum/Non-Vacuum | PSF4312            |
| PSO43-2H    | 3            | Velcro® Brand fasteners | Vacuum/Non-Vacuum | PSF4312            |
| PS4512-1AH  | 5            | PSA                     | Non-Vacuum        | PS4512             |
| PS4512V-1AH | 5            | PSA                     | Vacuum            | PS4512             |
| PSO4525-2H  | 5            | Velcro® Brand fasteners | Non-Vacuum        | PS4512             |
| PS4512V-2H  | 5            | Velcro® Brand fasteners | Vacuum            | PS4512             |
| PS4612-1AH  | 6            | PSA                     | Non-Vacuum        | PS4612 and PSF4612 |
| PS4612V-1AH | 6            | PSA                     | Vacuum            | PS4612 and PSF4612 |
| PSO4625V-2H | 6            | Velcro® Brand fasteners | Vacuum            | PS4612 and PSF4612 |
| PS468-34    | 6            | PSA                     | Non-Vacuum        | PS4609             |
| PS468-34V   | 6            | PSA                     | Vacuum            | PS4609V            |
| PS468-34HL  | 6            | Velcro® Brand fasteners | Non-Vacuum        | PS4609             |
| PS468-34VHL | 6            | Velcro® Brand fasteners | Vacuum            | PS4609V            |
| PS468-35    | 8            | PSA                     | Non-Vacuum        | PS4809             |
| PS468-35V   | 8            | PSA                     | Vacuum            | PS4809V            |

| Stock No.    | Size, inches | Type                    | Style      | Use on                |
|--------------|--------------|-------------------------|------------|-----------------------|
| PS468-35VHL  | 8            | Velcro® Brand fasteners | Vacuum     | PS4809V               |
| PS468-35HL   | 8            | Velcro® Brand fasteners | Non-Vacuum | PS4809                |
| AT116-3      | 2            | Roloc®                  | Non-Vacuum | AT401MCA              |
| AT116-4      | 3            | Roloc®                  | Non-Vacuum | AT401MCA              |
| AT402VEL75MM | 3            | Hook-and-loop           | Non-Vacuum | AT402MCA and AT403MCA |
| AT406B33     | 6            | PSA                     | Non-Vacuum | AT406B                |
| AT406C-27    | 4            | Hook-and-loop           | Non-Vacuum | AT406C                |
| PSO4625-2H   | 6            | Velcro® Brand fasteners | Non-Vacuum | PS4612 and PSF4612    |

### Vacuum Adaptor Kits (contains vacuum adaptor and shroud)

|            |                                   |         |
|------------|-----------------------------------|---------|
| PSV4312KIT | Vacuum Kit for 3" Sanders         | PSF4312 |
| AT406CVAC  | Vacuum Kit (AT406C) (Blue-Point®) | —       |

### YA7341 Bonnet Cleaning Tool

- Run the spur wheels over a buffing pad or bonnet to dislodge and remove dry, hardened polish

### G0459-39 Vacuum Adaptor

- Vacuum adaptor for PS4609 and PS4809

## WIRE BRUSHES/FLAP WHEELS (Blue-Point®)



| Description   | Stock No. | Brush Diameter, inches | Shank Size, Arbor Size | Wire Diameter, inches | Maximum Safe Free Speed, RPM |
|---|-----------|------------------------|------------------------|-----------------------|------------------------------|
| <b>Crimped Wire Brush (Blue-Point®)</b><br>Crimped for removing carbon from cylinder heads and valve parts                              | AC2D      | 1                      | 1/4                    | .020                  | 20,000                       |
|   | AC3D      | 3/4                    | 1/4                    | .020                  | 20,000                       |
| <b>Solid End Wire Brush (Blue-Point®)</b><br>Solid end for cleaning aluminum cylinder heads and transmission parts                      | AC16D     | 3/4                    | 1/4                    | .006                  | 20,000                       |
| <b>Spiral Twist Wire Brush (Blue-Point®)</b><br>Spiral twist for removing heavy deposits  | AC6B      | 3/4                    | 1/4                    | .014                  | 20,000                       |
|   | AC7E      | 1                      | 1/4                    | .020                  | 20,000                       |
| <b>Cup-Type Wire Brush (Blue-Point®)</b><br>Cup-type for cleaning wheel rims and scuffing tires   | AC240B    | 1-1/2                  | 1/4                    | .012                  | 6,000                        |
| <b>Hollow End Crimped Cup Wire Brush (Blue-Point®)</b><br>Hollow end crimped cup for light-duty cleaning                                | AC241B    | 2-1/2                  | 1/4                    | .012                  | 6,000                        |
| <b>Cup Flared Wire Brush (Blue-Point®)</b><br>Cup flared for deburring, cleaning hard-to-reach areas and wheel rims, and scuffing tires | AC208A    | 1-1/2                  | 1/4                    | .008                  | 20,000                       |
|   | AC212A    | 1-1/2                  | 1/4                    | .012                  | 20,000                       |
|   | AC214A    | 2-1/2                  | 1/4                    | .014                  | 18,000                       |
|   | AC224A    | 3                      | 1/4                    | .014                  | 15,000                       |
| <b>Encapsulated Wire End Wire Brush (Blue-Point®)</b><br>Encapsulated wire end brushes for a consistent stiff brushing action           | AC204C    | 1/2                    | 1/4                    | .014                  | 8,000                        |
|   | AC205C    | 3/4                    | 1/4                    | .014                  | 8,000                        |
|   | AC206C    | 1                      | 1/4                    | .014                  | 8,000                        |
| <b>Single Row Knot-Type Wire Brush (Blue-Point®)</b><br>Knot-type, single-row wire cup for heavy-duty surface applications              | AC339A    | 3                      | 5/8-11                 | .020                  | 12,500                       |
|   | AC341B    | 3                      | 5/8-11                 | .012                  | 7,000                        |
|   | AC342B    | 4                      | 5/8-11                 | .020                  | 7,000                        |

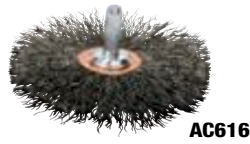


- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Do not use power tool accessories above their maximum rated RPM
- Read safety precautions on pages W1 to W4

## WIRE BRUSHES/FLAP WHEELS (Blue-Point®)/ACCESSORIES



AC420A



AC616



AC17D



AC243



AC10306

### General-Purpose

| Description  | Stock No. | Brush Diameter, inches | Shank Size Arbor Size | Wire Diameter, inches | Maximum Safe Free Speed, RPM |
|--|-----------|------------------------|-----------------------|-----------------------|------------------------------|
| <b>Knotted Wire Wheel Brush (Blue-Point®)</b><br>Heavy-duty cleaning | AC420A    | 4                      | 5/8-11                | .020                  | 20,000                       |
| <b>Crimped Wire Wheel (Blue-Point®)</b><br>General-purpose cleaner   | AC616     | 3                      | 1/4                   | .0118                 | 20,000                       |
| <b>Wire Brush (Blue-Point®)</b><br>Medium-duty general cleaner       | AC17D     | 1                      | 1/4                   | .006                  | 20,000                       |
|  | AC243     | 3                      | 5/8-11                | .014                  | 14,000                       |
| <b>End Brush (Blue-Point®)</b><br>Ideal for cleaning right angles    | AC10302   | 1/2                    | 1/4                   | .014                  | 25,000                       |
|  | AC10306   | 3/4                    | 1/4                   | .014                  | 22,000                       |



A24C

#### A24C Arbor, 1/4" Shank, 1/2" Arbor Adaptor (Blue-Point®)

- Adapts electric drill to light-duty grinding and wire brushing: use with wheels and brushes up to 4" in diameter
- 1/4" shank, 1/2" diameter arbor, 1-3/4" length
- 20,000 RPM maximum speed



AC3Z40T27MP



AC3160FWMP

| Description              | Stock No.   | Diameter, inches | Type | Grit | Quantity to Pack |
|--------------------------|-------------|------------------|------|------|------------------|
| Flap Disc (Blue-Point®)  | AC3Z40T27MP | 3                | 27   | 40   | 10               |
|                          | AC3Z80T27MP | 3                | 27   | 80   | 10               |
| Flap Wheel (Blue-Point®) | AC3160FWMP  | 3                | —    | 60   | 10               |
|                          | AC31120FWMP | 3                | —    | 120  | 10               |



ACMANDREL

#### ACMANDREL Mandrel

- 1/4" stem for use on 2" and 3" flap discs



AC4D

AC4D Brush



AC239

AC239 1-1/2" Crimped Cup

## CUTTING AND GRINDING ACCESSORIES



ETA125A

#### ETA125A Grinding Wheel Set

- Use with ET1350/ET1360
- 12,000 RPM maximum speed
- 5 pk



ETA250A

#### ETA250A Grinding Wheel Set (Blue-Point®)

- 1/4 x 4-1/2 x 7/8"
- Coarse 24 grit
- 12,000 RPM maximum speed



AT154RWHLMPA

#### AT154RWHLMPA 4" Cutting Wheel (Blue-Point®)

- Aluminum-oxide cutting wheel for all metal types
- 4" dia. with a 3/8" arbor hole
- 21,000 RPM maximum speed



AT215GWSET

#### AT215GWSET 6 pc 2" Grinding Wheel Set (Blue-Point®)

- Replacement grinding wheels for the AT215 angle grinder
- 20,000 RPM maximum speed
- 6 pk



AT415-20B

#### AT415-20B Grinding Disc

- For the AT415B grinder
- 4" dia. x 3/16" thick with a 5/8" arbor hole
- 12,000 RPM maximum speed
- 5 pk



VWB800D



VWBL400



VWB400A



VWB200C

Grinding burrs are ideal for use with Snap-on® die grinders. 1/4" and 1/8" shank burrs are available, all with solid carbide heads. The 1/8" shank units all have a maximum head diameter of 1/8".

## Carbide Burrs, 1/4" Shank

| Type                                  | Stock No. | Style | Shank Length, inches | Flute Length, inches | Head Dia., inches | Recommended RPM Cast Iron | Recommended RPM Stainless | Set Contains: |         |         |         |
|---------------------------------------|-----------|-------|----------------------|----------------------|-------------------|---------------------------|---------------------------|---------------|---------|---------|---------|
|                                       |           |       |                      |                      |                   |                           |                           | VWB800D       | VWB400A | VWBL400 | VWB200C |
| Carbide Burrs, 1/4" Shank             | VWB1C     | A     | —                    | 5/8                  | 1/4               | 22,000                    | 23,000                    | •             | •       |         |         |
|                                       | VWB9B     | A     | —                    | 1                    | 1/2               | 16,000                    | 24,000                    |               |         |         |         |
|                                       | VWB2B     | B     | —                    | 3/4                  | 3/8               | 18,000                    | 27,000                    | •             | •       |         |         |
|                                       | VWB10B    | B     | —                    | 1                    | 1/2               | 16,000                    | 24,000                    |               |         |         |         |
|                                       | VWB3B     | C     | —                    | 1/4                  | 5/16              | 20,000                    | 30,000                    | •             |         |         |         |
|                                       | VWB4B     | D     | —                    | 7/8                  | 1/2               | 16,000                    | 24,000                    | •             |         |         |         |
|                                       | VWB11B    | E     | —                    | 3/4                  | 3/8               | 18,000                    | 27,000                    |               |         |         |         |
|                                       | VWB5B     | E     | —                    | 1                    | 1/2               | 16,000                    | 24,000                    | •             | •       |         |         |
|                                       | VWB6B     | F     | —                    | 3/4                  | 3/8               | 18,000                    | 27,000                    | •             |         |         |         |
|                                       | VWB7B     | G     | —                    | 1-1/8                | 1/2               | 16,000                    | 24,000                    | •             | •       |         |         |
|                                       | VWB12B    | G     | —                    | 1-1/16               | 3/8               | 18,000                    | 27,000                    |               |         |         |         |
| VWB8B                                 | H         | —     | 7/8                  | 1/2                  | 16,000            | 24,000                    | •                         |               |         |         |         |
| Long-Reach Carbide Burrs, 1/4" Shank  | VWBL401   | —     | 4                    | —                    | 3/8               | 14,000                    | 17,000                    |               |         |         | •       |
|                                       | VWBL402   | —     | 4                    | —                    | 3/8               | 14,000                    | 17,000                    |               |         |         | •       |
|                                       | VWBL403   | —     | 4                    | —                    | 3/8               | 14,000                    | 17,000                    |               |         |         | •       |
|                                       | VWBL404   | —     | 4                    | —                    | 3/8               | 14,000                    | 17,000                    |               |         |         | •       |
| Wide Fluted Carbide Burrs, 1/4" Shank | VWB206C   | A     | —                    | 1                    | 1/2               | 15,000                    | 25,000                    |               |         |         | •       |
|                                       | VWB204C   | A     | —                    | 3/4                  | 1/4               | 15,000                    | 25,000                    |               |         |         | •       |
|                                       | VWB203C   | B     | —                    | 1                    | 1/2               | 15,000                    | 25,000                    |               |         |         | •       |
|                                       | VWB202C   | E     | —                    | 1                    | 1/2               | 15,000                    | 25,000                    |               |         |         | •       |
|                                       | VWB201C   | G     | —                    | 1-1/8                | 1/2               | 15,000                    | 25,000                    |               |         |         | •       |
|                                       | VWB205C   | G     | —                    | 1-1/16               | 3/8               | 15,000                    | 25,000                    |               |         |         | •       |



VWB700B

## Carbide Burrs, 1/8" Shank

| Stock No. | Style | Flute Length, inches | Recommended RPM Cast Iron | Recommended RPM Stainless | Set Contains: |
|-----------|-------|----------------------|---------------------------|---------------------------|---------------|
|           |       |                      |                           |                           | VWB700B       |
| VWB301B   | A     | 9/16                 | 20,000                    | 75,000                    | •             |
| VWB302B   | B     | 9/16                 | 20,000                    | 75,000                    | •             |
| VWB303B   | C     | 1/8                  | 20,000                    | 75,000                    | •             |
| VWB304B   | D     | 7/32                 | 20,000                    | 75,000                    | •             |
| VWB305B   | E     | 1/2                  | 20,000                    | 75,000                    | •             |
| VWB306B   | F     | 3/8                  | 20,000                    | 75,000                    | •             |
| VWB307B   | G     | 1/2                  | 20,000                    | 75,000                    | •             |
| VWB308B   | H     | 7/16                 | 20,000                    | 75,000                    | •             |



**WARNING**



• Do not use power tool accessories above their maximum rated RPM  
 • Read safety precautions on pages W1 to W4

## AIR HAMMER ACCESSORIES



PHG63B



PHG64B



PHG76B



PHG21B



PHG57B



PHG73B



PHG58C



PHG111B



PHG87B



PH201



PHG74B

PHG105BK

PHG1055BK

PHG1066BK

### Air Hammer Bit Sets

| Stock No. | Description                             | Application   | Length, inches | Tip, inches   |   |   |   |
|-----------|---|---|----------------|---------------|---|---|---|
| PHG94B    | Ball Joint/Tie Rod Separator            | Separating Ball Joints and Tie Rods   | 7-3/8          | 5/8 Opening   |   |   |   |
| PHG63B    | Air Hammer Ball Joint/Tie Rod Separator | Separating Ball Joints and Tie Rods   | 7-3/8          | 13/16 Opening |   |   |   |
| PHG69B    | Air Hammer Ball Joint/Tie Rod Separator | Separating Ball Joints and Tie Rods   | 7-3/8          | 1 Opening     |   |   |   |
| PHG93B    | Ball Joint/Tie Rod Separator            | Separating Ball Joints and Tie Rods   | 8-3/4          | 1-1/4 Opening |   |   |   |
| PHG64B    | Air Hammer Bent End Chisel              | Shears Ball Joint Rivets  | 10-1/2         | 5/8           |   |   |   |
| PHG76B    | Bushing Cutter                          | Bushing Cutting   | 6-1/4          | 1/2           |   |   |   |
| PHG21B    | Offset Bushing Splitter                 | Bushing Cutting, when Extra Reach is Needed   | 8-3/8          | 5/8           |   |   |   |
| PHG85B    | Air Hammer Curved Flat Chisel           | Rivet Cutting Work  | 5-3/4          | 5/8           |   |   |   |
| PHG57B    | Air Hammer Double-Bladed Panel Cutter   | Panel Cutting and Sheet Metal Cutting   | 6              | 3/4           | • | • |   |
| PHG73B    | Air Hammer Drift Punch                  | Punching Out Pins and other Driving Applications  | 6-1/2          | 1/2           |   | • | • |
| PHG77B    | Straight Punch                          | Punching Out Pins and other Driving Applications that need Extra Reach                                | 18             | 1/2           |   |   |   |
| PHG55B    | Air Hammer Flat Chisel                  | Normal Chisel Cutting Applications  | 6-1/2          | 3/4           | • | • | • |
| PHG58C    | Air Hammer Flat Chisel                  | Normal Chisel Cutting Applications that need Extra Reach  | 10             | 3/4           |   |   | • |
| PHG84B    | Flat Chisel                             | Normal Chisel Cutting Applications that need Extra Reach  | 18             | 3/4           |   |   |   |
| PHG99B    | Air Hammer Flat Chisel                  | Normal Chisel Cutting Applications that need Extra Reach  | 6-1/2          | 1-1/2         |   |   |   |
| PHG111B   | Hinge Pin Driver                        | Removing and Installing Tube-Hinge Pins on Car and Truck Doors  | 7-3/8          | 0.237         |   |   |   |
| PHG112B   | Hinge Pin Driver                        | Removing and Installing Tube-Hinge Pins on Car and Truck Doors  | 7-3/8          | 0.302         |   |   |   |
| PHG95B    | Hole Punch                              | Punches 3/16" dia. Starting Hole in Sheet Metal to prepare use with CJ107 and CJ114 Body Dent Pullers | 5-5/8          | —             |   |   |   |
| PHG66B    | Inside Muffler Cutter                   | Cutting the Exhaust Pipe Inside the Flange  | 8-3/4          | 3/16          |   |   |   |
| PHG87B    | Muffler Cutter                          | Removing the Tail Pipe  | 8-3/4          | 7/8           |   |   |   |
| PH201     | Needle Scaler                           | Projecting Rods Chip Away Rust and Scale. Use Only at Low-Pressure                                    | 7-13/16        | —             |   |   |   |
| PHG74B    | Riveter                                 | 3/16" Stem  | 5-13/16        | 1/2           |   |   |   |
| PHG75B    | Pneumatic Bushing & Seal Driver         | Pneumatic Bushing & Seal Driving  | 5-1/2          | 1/2           |   |   |   |



# AIR HAMMER ACCESSORIES



| Stock No. | Description   | Application   | Length, inches | Tip, inches  |   |   |   |
|-----------|---|---|----------------|--------------|---|---|---|
| PHG78B    | Riveter   | 1/4" Stem   | 5-3/4          | 1/2          |   |   |   |
| PHG88B    | Air Hammer Riveter  | Forming Heads on 3/16" Compression Rivets   | 5-13/16        | 1/2          |   |   |   |
| PHG89B    | Riveter   | Forming Heads on 1/4" Compression Rivets  | 3-7/8          | 7/8          |   |   |   |
| PHG71B    | Round Hammer  | Hammering Applications  | 4-1/4          | 1            |   |   | • |
| PHG68B    | Round Hammer  | Hammering Applications that need Extra Reach  | 7              | 1            |   | • | • |
| PHG56B    | Air Hammer Scraper  | Scraping Applications   | 6-3/16         | 1-5/16       |   |   |   |
| PHG51B    | Air Hammer Sheet Metal Ripper                             | Sheet Metal Ripping and Cutting   | 5-3/8          | 5/8          | • |   |   |
| PHG61B    | Air Hammer Slitting Chisel                                | Cutting Tail Pipes and other Surfaces   | 6-7/8          | 1            | • |   |   |
| PH1038    | 3/8" Square Drive Air Hammer Socket Adaptor (Blue-Point®) | Attaches to Air Hammer to Provide Vibration While Turning Stubborn Fasteners, 3/4" Hex, 3/8" Square Drive   | 5              | —            |   |   |   |
| PH1050    | 1/2" Square Drive Air Hammer Socket Adaptor (Blue-Point®) | Attaches to Air Hammer to Provide Vibration While Turning Stubborn Fasteners, 3/4" Hex, 1/2" Square Drive   | 5              | —            |   |   |   |
| PHG70B    | Air Hammer Spot Weld Breaker                              | Weld Removal  | 6-1/4          | 3/4          | • |   |   |
| PHG59B    | Air Hammer Tapered Punch                                  | Removal of Pins   | 6-1/2          | 3/16         |   | • | • |
| PHG72B    | Air Hammer U-Joint Needle Type Trunion Driver             | Needle Type Trunions  | 3-7/8          | 7/8          |   |   |   |
| PHG83B    | Valve Guide Remover                                       | Removing and Installing Valve Guides  | 7.48           | 7.7 mm Pilot |   |   |   |
| PHG86B    | Valve Guide Remover                                       | Removing and Installing Valve Guides  | 7.48           | 9.3 mm Pilot |   |   |   |
| PHG91B    | Valve Guide Remover                                       | Removing and Installing Valve Guides  | 7.4            | 6.5 mm Pilot |   |   |   |
| PHG96B    | Valve Guide Remover                                       | Removing and Installing Valve Guides  | 7.4            | 6.9 mm Pilot |   |   |   |
| PHG97B    | Valve Guide Remover                                       | Removing and Installing Valve Guides  | 7.4            | 5.2 mm Pilot |   |   |   |
| PHG151B   | Panel Cutter  | Edges and Trims Sheet Metal. Cutting End is Offset 25° Non-Turn Shank   | 6-7/8          | 5/8          |   |   |   |
| PHG161B   | Slitting Chisel   | Cuts Exhaust System Pipes, 1/8" Tip Thickness. Non-Turn Shank   | 8-3/4          | 1            |   |   |   |
| PHG155B   | Air Hammer Cold Chisel                                    | Cuts Bolts, Nuts, Tees and Angles; Splits and Bevels, Non-Turn Shank  | 7              | 21/32        |   |   |   |
| PH200D    | Universal Quick-Change Chuck Retainer                     | Use for Fast, Easy Insertion/Removal of Air Hammer Bits   | —              | —            |   |   |   |
| PHGCR1    | Front Axle C-Clip Remover                                 | Removes C-Clips stuck in place by rust, cup shift, dirt and grime For use on Ford®, GM® and Dodge® vehicles as well as any vehicle that uses a U-Joint with C-Clip retainer | —              | —            |   |   |   |

PHG1005BK  
PHG1055BK  
PHG1066BK



• Use air hammer accessories only for their intended applications, replace when worn or broken  
• Read safety precautions on pages W1 to W4

## AIR HAMMER ACCESSORIES



PHG1540K

### Air Hammer Bit Sets

#### PHG1540K 6 pc Interchangeable Tip Air Hammer Bit Set

- Three (3) shafts in different lengths make accessing hard-to-reach places safer and easier
- Quick-change head design with (3) tips (steel, aluminum, nylon)
- Ability to choose the appropriate hammer head material to reduce damage to vulnerable areas
- Worn-out tips are easily replaceable
- Canvas pouch included

| Stock No.   | Description             |
|-------------|-------------------------|
| PHG1540-18  | 18" Hammer Shaft        |
| PHG1540-6   | 6" Hammer Shaft         |
| PHG1540-9   | 9" Hammer Shaft         |
| PHG1540-ALM | Aluminum Hammer Head    |
| PHG1540-BAG | Hammer Set Canvas Pouch |
| PHG1540-NYL | Nylon Hammer Head       |
| PHG1540-STL | Steel Hammer Head       |



PHG1004RPBK

### Roll Pin Punches

Set Contains:

| Stock No. | Description    | Application                           | Length, inches | Tip, inches |   |
|-----------|----------------|---------------------------------------|----------------|-------------|---|
| PHG79B    | Roll Pin Punch | For Removing and Installing Roll Pins | 7-1/2          | 3/8         | • |
| PHG80B    | Roll Pin Punch | For Removing and Installing Roll Pins | 7-1/2          | 1/4         | • |
| PHG821B   | Roll Pin Punch | For Removing and Installing Roll Pins | 7-1/2          | 1/2         | • |

PHG1004RPBK



PHGL37KT

### Extra-Long Drift Punches (Blue-Point®)

Set Contains:

| Stock No. | Description                          | Application                                     | Length, inches | Tip, inches |   |
|-----------|--------------------------------------|---|----------------|-------------|---|
| PHGL78    | Extra-Long Drift Punch (Blue-Point®) | Loosens Hard-to-Reach Rusty Bolts and Fasteners | 5              | 5/16        | • |
| PHGL710   | Extra-Long Drift Punch (Blue-Point®) | Loosens Hard-to-Reach Rusty Bolts and Fasteners | 5              | 3/8         | • |
| PHGL712   | Extra-Long Drift Punch (Blue-Point®) | Loosens Hard-to-Reach Rusty Bolts and Fasteners | 5              | 1/2         | • |

PHGL37-KB Storage Pouch (Blue-Point®)

Kit includes storage pouch.

PHGL37KT

#### PHGL37KT Extra-Long Punch Drift Set (Blue-Point®)

- Includes PHGL78, PHGL710 and PHGL712 Extra-Long Drift Punches (3 pc) in a PHGL37-KB Storage Pouch

## IMPACT WRENCH AND RATCHET ACCESSORIES



MRB25



YA4190A



YA4190CAPA



YA4190FAR



YA4190DIS

#### MRB25 Magnetic Impact Wrench Holder (Blue-Point®)

- Attaches to lift post, tool storage unit or cart to keep impact gun handy
- Ideal for tire and wheel shops
- 160 lb of magnetic force
- Outer diameter of base is 3-7/8"
- Inner diameter of holder is 2-7/8"

#### YA4190A Mini Grease Gun

- Fits all flush type fittings
- Good for all FAR series air ratchets
- Spring return plunger
- 3 oz capacity

#### YA4190CAPA Grease Gun Head

- Fits YA4190A mini grease gun

#### YA4190FAR Grease Gun Assembly

- Use with FAR series air ratchets

#### YA4190DIS Grease Dispenser (Blue-Point®)

- Grease dispenser attachment for YA4190A mini grease gun
- Contains 3 oz of Mobil® temp SHC-32 grease for Snap-on® FAR Series air ratchets

## Air Saw Blades

| Stock No. | Application/Material Thickness | Teeth Per Inch (TPI) | Length, inches | Blade Thickness, inches | Quantity |
|-----------|--------------------------------|----------------------|----------------|-------------------------|----------|
| ASB4-42   | Over 0.20"                     | 18                   | 3-5/8          | .025                    | 10 Each  |
| ASB4-43   | 0.08–0.20"                     | 24                   | 3-5/8          | .025                    | 10 Each  |
| ASB4-44   | 0.00–0.08"                     | 32                   | 3-5/8          | .025                    | 10 Each  |



ASB4-42

## Air Saw Blades

| Stock No. | Bi-Metal Blades                                    | Teeth Per Inch (TPI) | Length, inches | Blade Thickness, inches |
|-----------|--|----------------------|----------------|-------------------------|
| AT190-39C | Bi-Metal Blade Scroll, 18 TPI, 3-3/4" Long (qty 5) | 18                   | 3-3/4          | .035                    |
| AT190-40C | Bi-Metal Blade Scroll, 24 TPI, 3-3/4" Long (qty 5) | 24                   | 3-3/4          | .035                    |
| AT190-41C | Bi-Metal Blade Scroll, 32 TPI, 3-3/4" Long (qty 5) | 32                   | 3-3/4          | .035                    |
| AT190-42B | Bi-Metal Blade Multipurpose, 18 TPI, 4" (qty 5)    | 18                   | 4              | .035                    |
| AT190-43B | Bi-Metal Blade Multipurpose, 24 TPI, 4" (qty 5)    | 24                   | 4              | .035                    |
| AT190-44B | Bi-Metal Blade Multipurpose, 32 TPI, 4" (qty 5)    | 32                   | 4              | .035                    |



AT190-42B

## Metal Cutting Blades

Bi-metal reciprocating saw blades with precision ground teeth for maximum cutting power, greater control and higher speed.

| Stock No. | Application/Material Thickness     | Teeth Per Inch (TPI) | Blade Thickness, inches | Blade Length, inches | Quantity |
|-----------|------------------------------------|----------------------|-------------------------|----------------------|----------|
| CTRS614MC | Metal 1/8–3/8" Thick               | 14                   | .035                    | 6                    | 5 Each   |
| CTRS914MC | Metal 1/8–3/8" Thick               | 14                   | .035                    | 9                    | 5 Each   |
| CTRS618MC | Metal 1/8–1/4" Thick               | 18                   | .035                    | 6                    | 5 Each   |
| CTRS918MC | Metal 1/8–1/4" Thick               | 18                   | .035                    | 9                    | 5 Each   |
| CTRS624MC | Metal Less Than 1/8" Thick         | 24                   | .035                    | 6                    | 5 Each   |
| RSB424PM  | Precision Metal Cutting Blades     | 24                   | .035                    | 4                    | 5 Each   |
| RSB418PM  | Precision Metal Cutting Blades     | 18                   | 0.035                   | 4                    | 5 Each   |
| RSB6812JY | High-Strength Steel Cutting Blades | 12                   | 0.05                    | 6                    | 5 Each   |
| RSB9812JY | Precision Metal Cutting Blades     | 12                   | 0.05                    | 9                    | 5 Each   |



CTRS614MC

## General Purpose Blades

Versatile bi-metal blades for general purpose cutting of metal, plastic laminates and wood with nails.

| Stock No. | Application/Material Thickness     | Teeth Per Inch (TPI) | Blade Thickness, inches | Blade Length, inches | Quantity |
|-----------|------------------------------------|----------------------|-------------------------|----------------------|----------|
| CTRS658GP | Metal/Plastic/Wood                 | 5–8 Variable         | .050                    | 6                    | 5 Each   |
| CTRS126GP | Metal/Plastic/Wood                 | 6                    | .050                    | 12                   | 5 Each   |
| RSB911WP  | General Purpose Wood/Plastic Blade | 11                   | .04                     | 9                    | 5 Each   |



RSB418PM

## Demolition Blades

Extra heavy-duty bi-metal blades with a thicker body and variable 5/8" tooth pitch are ideal for heavy demolition work in wood with nails; plus are strong enough to handle thick metals

| Stock No. | Application/Material Thickness | Teeth Per Inch (TPI) | Blade Thickness, inches | Blade Length, inches | Quantity |
|-----------|--------------------------------|----------------------|-------------------------|----------------------|----------|
| CTRS658DB | Nail-Embedded Wood             | 5–8 Variable         | .062                    | 6                    | 5 Each   |
| CTRS958DB | Nail-Embedded Wood             | 5–8 Variable         | .062                    | 9                    | 5 Each   |



CTRS126GP

## Wood Cutting Blades

Bi-metal blades with precision ground teeth for fast cutting of wood 3/8" and thicker.

| Stock No. | Application/Material Thickness     | Teeth Per Inch (TPI) | Blade Thickness, inches | Blade Length, inches | Quantity |
|-----------|------------------------------------|----------------------|-------------------------|----------------------|----------|
| CTRS67WB  | Fast Cutting Wood 3/8" and Thicker | 7                    | .040                    | 6                    | 5 Each   |
| CTRS97WB  | Fast Cutting Wood 3/8" and Thicker | 7                    | .040                    | 9                    | 5 Each   |



CTRS658DB

CTRS67WB



- Use air hammer accessories only for their intended applications, replace when worn or broken
- Read safety precautions on pages W1 to W4

## BLOW GUNS



### Non-Vented Blow Guns

Not for use above 30 PSI air supply pressure.

#### JT13B Blow Gun (Blue-Point®)

- Tapered, rubber tip for a leak-proof connection between the gun and the fluid line
- Vinyl-coated control lever
- Hanging hook for storage
- 4-1/2" long

#### JT17A Blow Gun (Blue-Point®)

- Same as JT13B except with 3" extension in place of the rubber tip

#### YA1050B ‡ Blow Gun (Blue-Point®)

- Pistol-grip-style with full-sized front trigger
- Infinite variable flow
- 10-1/4" long

#### YA4010 Quick Change Rubber Tip (Blue-Point®)

- Conical rubber tip for YA1050B Blow Gun

#### JT14 Blow Gun (Blue-Point®)

- Industrial interchange-style coupler

#### JT15 Blow Gun (Blue-Point®)

- Universal 1/4" MNPT pipe threading

#### JT20 Blow Gun (Blue-Point®)

- ARO®-style coupler

#### JT21 Pocket-Style Blow Gun (Blue-Point®)

- Tru-Flate®-style coupler

#### JT22 Blow Gun (Blue-Point®)

- Lincoln®-style coupler

#### JT23 ‡ Pocket-Style Blow Gun (Blue-Point®)

- Solid brass
- Industrial interchange-style coupler

#### JT24 ‡ Blow Gun (Blue-Point®)

- Solid brass
- ARO®-style coupler

#### YA105020 ‡ 20" Bent Nozzle Blow Gun (Blue-Point®)

- 20" bent nozzle
- Trigger provides variable air flow control
- Lightweight body with ergonomically designed grip provides comfort and control
- Venturi tip directs air sideways if the tip end is obstructed
- Reinforced 1/4"-18 NPT inlet

#### YA105013 ‡ Blow Gun (Blue-Point®)

- Same as YA105020 except 13" bent nozzle

#### YA1050T2 ‡ Venturi Air Booster (Blue-Point®)

- Venturi nozzle draws in ambient air for extra high-flow (increasing by 100%)
- Suitable for deflecting lightweight wood chips
- Diverts air when dead-ended, reducing the outlet pressure to less than 2 bar (29 PSI)

#### YA1050T3 3 pc Rubber Tip Kit (Blue-Point®)

- Rubber tip kit for YA105020 Blow Gun

#### YA1050T4 Chip/Fluid Shield (Blue-Point®)

- Chip/fluid shield for YA105020 Blow Gun

#### AT4101\* 4" Blow Gun

- Built-in valve system improves trigger control
- Impact-resistant material for long-lasting service
- Galvanized blow tube for corrosion resistance
- Lifetime warranty (accessories not included)

#### AT4113 19" Straight Tube Air Blow Gun

- Built-in valve system improves trigger control
- Impact-resistant material for long-lasting service
- Galvanized blow tube for corrosion resistance
- Lifetime warranty (accessories not included)
- Used for blowing off, cleaning and drying surfaces
- Used in any sector of industry where compressed air is used

#### AT4135 Blow Gun with Air Adjustment

- Built-in valve system improves trigger control
- Impact-resistant material for long-lasting service
- Galvanized blow tube for corrosion resistance
- Lifetime warranty (accessories not included)
- Sound level 78 dB (8 bar)
- Regulate flow with adjustable volume control
- Complies with OSHA safety standards
- Used for lowering off, cleaning and drying surfaces
- Used in any sector of industry where compressed air is used

#### AT4124 Rubber Tip

- Prevents scratching of surface
- Used with AT4101, AT4113 and AT4135 air blow guns

#### AT4112B 300 mm Bent Tube Blow Gun

- Built-in valve system improves trigger control
- Impact-resistant material for long-lasting service
- Galvanized blow tube for corrosion resistance
- Lifetime warranty (accessories not included)

#### AT4164 Rubber Blow Gun Tip

- Rubber tip prevents scratching of delicate surfaces
- Push-to-connect collar holds tip securely onto the blow gun pipe
- Tip is easily removed from the blow gun pipe by simply pulling back on the collar
- 25 mm tip diameter is ideal for flushing hoses up to 7/8"
- Tip works with AT4101, AT4113 and AT4112 blow gun models
- Lifetime warranty

Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



AT4190



JT19A



YA1055B

## Vented Blow Guns

Not for use above 135 PSI air supply pressure. Do not obstruct vents.

### AT4190\* HI-FLO Venturi Tip Blow Gun

- Large diameter venturi nozzle draws in ambient air and increases output volume by 100%
- Nozzle delivers up to 21 CFM
- Ideal for heavy-duty chip and debris removal
- Excellent tool to quickly dry vehicles or motorcycles
- OSHA compliant
- 1/4"-18 FNPT inlet
- Lifetime warranty

### JT19A Venturi Tip Blow Gun (Blue-Point®)

- Directs air sideways if tip end becomes obstructed
- Venturi tip increases airflow
- Includes stabilizer valve for variable pressure
- 1" hanging hook and paddle type air control lever
- Air inlet: 1/4"-18 NPT(f)
- OSHA compliant

### YA1055B ‡ Blow Gun (Blue-Point®)

- Variable-flow trigger offers precise airflow control
- Six-outlet star tip delivers an even distribution of air
- 4" full-flow tube
- OSHA compliant
- Air inlet: 1/4"-18 NPT(f)

\*Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## AIR WATER WASHERS



JETWASHER



JETWASHFAN



JETWASHNOZL

## Water Nozzles and Hoses

### JETWASHER Air Water Jet Washer

- Combines compressed air and water to create a powerful jet washer
- Provides safe and effective cleaning
- Separate air and water controls
- Multifunction—rinse, clean or dry with air and water
- Wide nozzle design prevents splash-back
- Lightweight and compact
- Durable nylon components will not scratch surfaces
- Includes a 3/4" threaded garden hose connection and quick-connect adaptor
- Optional stepped nozzle can be used to flush coolant systems and heater cores

### JETWASHFAN Jet Washer Fan Nozzle

### JETWASHNOZL Jet Washer Flushing Nozzle



- Do not direct blow gun at yourself or others
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR HOSES AND SWIVELS



IM2005A

### Air Hoses, Rubber

- Ideal for industrial applications
- Male threads at both ends

| Stock No. | Hose I.D., inches | Hose Length, feet | Thread Size | Maximum Pressure, PSI |
|-----------|-------------------|-------------------|-------------|-----------------------|
| IM2001A ‡ | 1/4               | 5 whip            | 1/4"-18 NPT | 300                   |
| IM2002A ‡ | 3/8               | 5 whip            | 1/4"-18 NPT | 300                   |
| IM2004A ‡ | 3/8               | 2 whip            | 1/4"-18 NPT | 300                   |
| IM2005A ‡ | 3/8               | 25                | 1/4"-18 NPT | 325                   |
| IM2008A ‡ | 3/8               | 50                | 1/4"-18 NPT | 325                   |
| IM2009A ‡ | 1/2               | 50                | 1/2"-14 NPT | 325                   |



AIRHOSE35

### Air Hoses, Reinforced Polyurethane

- Extremely lightweight for easy maneuverability
- Reinforced construction eliminates layer separation resulting from expansion and contraction during pulsating operations
- Resists abrasions better than PVC and rubber hoses
- Easy to wrap and store even in subzero weather
- UV stabilized for longer outdoor life
- Strain relief features a tight bending radius to virtually eliminate hose kinking
- Reusable fittings and strain reliefs for longer life

| Stock No.    | Hose I.D., inches | Hose Length, feet | Thread Size | Temperature Range, °F (°C) | Working Pressure        |
|--------------|-------------------|-------------------|-------------|----------------------------|-------------------------|
| AIRHOSE35 ‡  | 3/8               | 35                | 1/4" NPT    | -40-165 (-40-73.9)         | 200 PSI @ 70 °F (21 °C) |
| AIRHOSE50 ‡  | 3/8               | 50                | 1/4" NPT    | -40-165 (-40-73.9)         | 200 PSI @ 70 °F (21 °C) |
| AIRHOSE100 ‡ | 3/8               | 100               | 1/4" NPT    | -40-165 (-40-73.9)         | 200 PSI @ 70 °F (21 °C) |
| AIRHOSE1250  | 1/2               | 50                | 1/2" NPT    | -40-165 (-40-73.9)         | 200 PSI @ 70 °F (21 °C) |



YA502M

### Air Swivel Connectors

- Swivels turn 360° at two points for complete tool maneuverability
- Air hoses hang straight to the floor

| Stock No. | Thread Size  | Maximum Pressure, PSI | Airflow                           |
|-----------|--------------|-----------------------|-----------------------------------|
| YA502M    | 1/4" NPT     | 150                   | Up to 4.6 CFM (33 SCFM)           |
| YA503M    | 3/8"- 18 NPT | 150                   | Up to 6.3 CFM (45 SCFM) [178 LPM] |
| ASC14     | 1/4" NPT     | 150                   | Up to 35 SCFM (991 LPM)           |
| ASC14U    | 1/4" NPT     | 150                   | Up to 35 SCFM (991 LPM)           |



**AHC23PMD**



**AHC26D**



**AHC25D**



**AHC25FD**



**AHC23MD**



**AHC21MD**



**AHC22MD**



**AHC22FD**



**AHC28MD**



**AHC31**



**AHC27MD**

## Air Line Quick Couplers

| Body Size, inches | Style                  | Thread Size | Quick Coupler Male | Quick Coupler Female | Adaptor Male      | Adaptor Female   |
|-------------------|------------------------|-------------|--------------------|----------------------|-------------------|------------------|
| 1/4               | Lincoln®               | 1/4"-18 NPT | —                  | <b>AHC26D</b> ‡      | <b>AHC26MD</b> ‡  | <b>AHC26FD</b> ‡ |
| 1/4               | Tru-Flate®             | 1/4"-18 NPT | —                  | <b>AHC24D</b>        | <b>AHC24MD</b> ‡  | <b>AHC24FD</b> ‡ |
| 3/8               | True-Flate®            | 1/4"-18 NPT | —                  | <b>AHC25D</b> ‡      | <b>AHC25MD</b> ‡  | <b>AHC25FD</b> ‡ |
| 1/4               | ARO®                   | 1/4"-18 NPT | <b>AHC23PMD</b> ‡  | <b>AHC23D</b> ‡      | <b>AHC23MD</b> ‡  | <b>AHC23FD</b> ‡ |
| 1/4               | Industrial Interchange | 1/4"-18 NPT | <b>AHC21PMD</b> ‡  | <b>AHC21D</b> ‡      | <b>AHC21MD</b> ‡  | <b>AHC21FD</b> ‡ |
| 3/8               | Industrial Interchange | 1/4"-18 NPT | —                  | <b>AHC22E</b> ‡      | <b>AHC22MD</b> ‡  | <b>AHC22FD</b> ‡ |
| 3/8               | Industrial Interchange | 3/8"-18 NPT | —                  | <b>AHC28D</b> ‡      | <b>AHC28MD</b> ‡  | <b>AHC28FD</b> ‡ |
| 1/2               | Industrial Interchange | 3/8"-18 NPT | —                  | —                    | <b>AHC31</b> ‡    | —                |
| 1/2               | Industrial Interchange | 1/2"-14 NPT | —                  | <b>AHC27D</b> ‡      | <b>AHC27MD</b> ‡  | <b>AHC27FD</b> ‡ |
| 1/4               | Rigid Mounting         | 1/4"-18 NPT | —                  | <b>AHC21PD</b> ‡     | —                 | —                |
| 1/4               | Hi-Flow                | 1/4"-18 NPT | —                  | <b>AHCC98C</b> ‡     | <b>AHCCP97C</b> ‡ | —                |
| 1/4               | Hi-Flow HVLP           | 1/4"-18 NPT | <b>AHCC91C</b> ‡   | <b>AHCC90C</b> ‡     | —                 | <b>AHCC90C</b>   |

\*Conforms to Mil Spec MIL-C-4109F

All adaptors are plated steel to improve durability.

## Air Valves and Manifolds

### IM10D Air Valve (Blue-Point®)

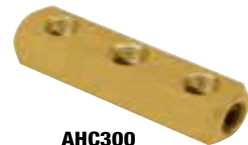
- Volume of airflow can be regulated with 1/4 turn of the control knob
- Male/female thread sizes

### AHC300 Multiline Air Manifold (Blue-Point®)

- Capacity of three air lines running at the same time
- Allows three workstations to use the same air supply
- Evenly distributes air through three different lines



**IM10D**



**AHC300**



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## GENERAL ACCESSORIES



ATHUBSCRUB

## Abrasive Discs (Blue-Point®)

**ATHUBSCRUB Hub Scrubber with Pad (Blue-Point®)**

- Invaluable tool for all wheel service applications
- Quickly removes rust and corrosion from studs, rotors, hubs and wheels
- Used with any 1/2" drive impact wrench
- Long-lasting, replaceable abrasive pads

**ATHBSCRBPADS Abrasive Pad (Blue-Point®)**

- Four pack of replaceable abrasive pads



IM1PTMP6



IM1PT



IM10ZMP12

## Lubrication Accessories

**IM1PTMP6 16 oz Air Motor Oil (6 pk)**

- Cleans all piston and rotary air motors, and helps prevent rust formation
- (6 pk) of IM1PT 16 oz bottles

**IM10ZMP12 1 oz Air Motor Oil (12 pk)**

- (12 pk) of 1 oz bottles

**IM1PT 16 oz Air Motor Oil**

- Improves performance and extends the life of power tools with regular use of Snap-on® motor oil
- Specially formulated to lubricate, clean and protect expensive components
- Used daily on all piston and rotary air motors
- 16 oz bottle



CTTOTEA



POWERTOTEBK

## Tote Bags

**CTTOTEA\* Power Tool Tote Bag**

- Wide opening for easy access to tools—extra padding for protection
- Durable 600 Denier® exterior for strength
- Interior pockets and compartments for tool organization
- Padded handles for comfortable transport
- Reinforced bottom for strength
- Six external pockets for extra storage
- Approximate inside dimensions, open: 18" L x 8" W x 11-1/2" D (457 x 203 x 292 mm)

**POWERTOTEBK Power Tool Tote Bag**

\*Colors Available



ADD SUFFIX TO STOCK NUMBER  
FOR SPECIAL COLORS



# SHOP & TECH

|                       |     |
|-----------------------|-----|
| OVERVIEW              | 600 |
| TESTING & ELECTRONICS | 602 |
| WELDING               | 651 |
| UNDERCAR              | 673 |
| BATTERY SERVICE       | 713 |
| AIR CONDITIONING      | 725 |
| COOLING               | 739 |
| SHOP EQUIPMENT        | 751 |
| SHOP CLEANING         | 841 |
| SAFETY                | 851 |



# IMPROVED CAPABILITIES MEAN AN IMPROVED BOTTOM LINE.

Upgrading your shop and adding to your capabilities is the sure way to generate more business. And Snap-on® has the tools you need, from welders and battery chargers to A/C recyclers and inspection scopes. As advanced as the modern vehicles they're used on, they're more dependable, functional and intuitive to use than ever. That's why we call them productivity solutions. And once you own them, you'll call them necessities.



**RETURN ON INVESTMENT** Our shop tools are proven to quickly pay for themselves and continually generate revenue, regardless of the initial investment.



**INNOVATION** Snap-on® equipment delivers the most advanced features available today, which in turn delivers loyal customers and repeat business.



**BREADTH** With 25 product categories to choose from, we offer a huge array of ways to increase your capabilities.



**WORK SMARTER** From multimeters and pressure testers that offer an app for viewing, recording, storing and sharing results to video inspection scopes and noise detection devices, our shop equipment is the smart choice.



**WORK FASTER** Diagnosing and fixing problems faster means you can squeeze more income-generating jobs into each day.



**WORK SAFER** One of our shop equipments' greatest assets is protecting your greatest asset – the people who are operating the equipment.



# TESTING & ELECTRONICS

DETECT EVERYTHING FROM THE FAINTEST ENGINE NOISES TO COMPLEX ELECTRICAL ISSUES WITH SNAP-ON® VIDEOSCOPIES, MULTIMETERS, CIRCUIT TESTERS, SMOKE MACHINE/ LEAK DETECTORS, LISTENING DEVICES AND OTHER SPECIALTY TOOLS.

**YOU CAN'T  
FIX THE  
PROBLEM  
UNTIL YOU  
FIND THE  
PROBLEM.**

No matter what the issue, our meters and analyzers help you detect it quickly – whether it's related to EVAP leaks, amps, volts, ohms, temperature, HC, CO<sub>2</sub>, O<sub>2</sub>, NO<sub>x</sub>, grounds, shorts, watts, RPM, decibels, compression, cylinder leakage or vacuum problems. Available apps for many of our tools make them even more convenient.



# DIGITAL MULTIMETERS

7-year limited warranty on Snap-on® meters.



EEDM596FK



EEDM525F



EEDM504D



EEDM503D

## Automotive Digital Multimeters

| Specifications                   | EEDM596FK   | EEDM525F  | EEDM504D   | EEDM503D   |
|----------------------------------|---|---|--|--|
| Certificate of Calibration Model | EEDM596FKCRT  | EEDM525FCRT   | EEDM504DCRT  | —  |
| Display Count                    | 40,000  | 4,000 Color   | 4,000  | 2,000  |
| AC Volts                         | 750   | 750   | 750  | 750  |
| DC Volts                         | 1,000   | 1,000   | 1,000  | 1,000  |
| Basic DC Accuracy                | 0.1%  | 0.50%   | 0.50%  | 0.50%  |
| AC Amps                          | 10  | 10  | 10   | 10   |
| Micro Amps                       | Yes   | Yes   | Yes  | Yes  |
| DC Amps                          | 10  | 10  | 10   | 10   |
| True RMS (Root Mean Square)      | Yes   | Yes   | No   | No   |
| Resistance, ohms                 | 40M Ohm   | 40M Ohm   | 40M Ohm  | 20M Ohm  |
| Capacitance                      | Yes   | Yes   | Yes  | No   |
| Frequency                        | Yes   | Yes   | Yes  | No   |
| Insulation Test                  | No  | No  | No   | No   |
| Analog Bar Graph                 | Yes   | Yes   | Yes  | No   |
| Auto Range                       | Yes   | Yes   | Yes  | No   |
| Data Hold                        | Yes   | Yes   | Yes  | Yes  |
| Min/Max                          | Yes   | Yes   | Yes  | No   |
| Backlight                        | Always On   | Always On   | No   | No   |
| Color Screen                     | Yes   | Yes   | No   | No   |
| Auto Shutoff                     | Yes   | Yes   | Yes  | No   |
| RPM                              | Yes   | EEDMRPMG (opt.)   | EEDMRPMG (opt.)  | EEDMRPMG (opt.)  |
| Adjustable Trigger Level         | Yes   | No  | No   | No   |
| Noise Reduction Circuit          | Yes   | No  | No   | No   |
| Temperature                      | EEDMTEMP-1  | EEDMTEMP-1 (opt.)   | EEDM506C (opt.)  | EEDM506C (opt.)  |
| Duty/Dwell                       | Yes   | Duty Only   | Duty Only  | No   |
| mS Pulse Width                   | Yes   | No  | No   | No   |
| Comp. Output (USB)               | Yes   | No  | No   | No   |
| UL® Listed                       | cULus 61010-1   | cULus 61010-1   | cULus 61010-1  | cULus 61010-1  |
| CAT Rating                       | CATIII 750 V AC,<br>CATIII 1,000 V DC,<br>CATIV 600 V AC/DC | CATIII 750 V AC,<br>CATIII 1,000 V DC,<br>CATIV 600 V AC/DC | CATII 750 V AC,<br>CATII 1,000 V DC,<br>CATIII 600 V AC/DC | CATII 750 V AC,<br>CATII 1,000 V DC,<br>CATIII 600 V AC/DC |
| Easy Open Battery and Fuse Door  | EEDM5F-DOOR   | EEDM5F-DOOR   | Yes  | Yes  |
| Glitch Capture                   | —   | No  | No   | No   |
| Blown Fuse Identifier            | Yes   | Yes   | Yes  | Yes  |
| Dimensions, inches               | 4.7 x 7.7 x 1.6   | 4.7 x 7.7 x 1.6   | 7-3/4 x 3-3/4 x 1-1/2                                      | 7-3/4 x 3-3/4 x 1-1/2                                      |
| Case or Zipper Pouch             | EEDM5F-CC   | EEDM5F-POUCH,<br>EEDM5F-CC (opt.)                           | EEDM504B4  | EEDM504B4 (opt.)   |
| Test Leads                       | EEDMLEADSET   | EEDMLEADSET   | EEDM504B3  | EEDM504B3  |
| Fuses                            | EEDMFUSE-7,<br>EEDMFUSE-8                                   | EEDMFUSE-7,<br>EEDMFUSE-8                                   | EEDMFUSE-1,<br>EEDMFUSE-2                                  | EEDMFUSE-1,<br>EEDMFUSE-4                                  |
| Low Pass Filter (LPF)            | Yes   | Yes   | No   | No   |

CE

Multimeters on this page include a basic lead set.

TECHNICAL SUPPORT: 1-888-382-6522



• Do not use in environment with explosive vapor  
• Read safety precautions on pages W1 to W4

## DIGITAL MULTIMETERS

7-year limited warranty on Snap-on® meters.  
5-year limited warranty on Blue-Point® meters.



EEDM604E



EEDM650C



EEDM570



EEDM575D



MT501C



MT574C

### Digital Multimeters

| Specifications                   | EEDM604E                       | EEDM650C                       | EEDM570                  | EEDM575D           | MT501C*             | MT574C*             |
|----------------------------------|--------------------------------|--------------------------------|--------------------------|--------------------|---------------------|---------------------|
| Certificate of Calibration Model | EEDM604ECRT                    | EEDM650CCRT                    | EEDM570CRT               | EEDM575DCRT        | No                  | MT574CCRT           |
| Display Count                    | 50,000                         | 4,000                          | 5,000                    | 11,000             | 2,000               | 4,000               |
| AC Volts                         | 1,000                          | 1,000                          | 600                      | 600                | 600                 | 600                 |
| DC Volts                         | 1,000                          | 1,000                          | 600                      | 600                | 600                 | 600                 |
| Basic DC Accuracy                | 0.05%                          | ±0.1% + 2 digits               | 0.015%                   | 0.5%               | 0.75%               | 0.30%               |
| AC Amps                          | 10                             | 400 mA                         | 100                      | 1,100              | No                  | 400 mA              |
| Micro Amps                       | Yes                            | Yes                            | No                       | 400 DC             | No                  | No                  |
| DC Amps                          | 10                             | 400 mA                         | 100                      | 400                | No                  | 400 mA              |
| True RMS (Root Mean Square)      | Yes                            | Yes                            | No                       | Yes                | No                  | No                  |
| Resistance, Ohms                 | (plus conductance)             | 40M Ohm                        | 50M Ohm                  | 110M Ohm           | 2K Ohm              | 40M Ohm             |
| Capacitance                      | Yes                            | Yes                            | 5,000 mF                 | 100 mF             | No                  | No                  |
| Frequency                        | Yes                            | Yes                            | 200 kHz                  | 10 kHz             | No                  | No                  |
| Insulation Test                  | No                             | Yes                            | No                       | No                 | No                  | No                  |
| Analog Bar Graph                 | Yes                            | No                             | Yes                      | Yes                | No                  | No                  |
| Auto Range                       | Yes                            | Yes                            | Yes                      | Yes                | No                  | Yes                 |
| Data Hold                        | Yes                            | Yes                            | Yes                      | Yes                | Yes                 | Yes                 |
| Min/Max                          | Yes                            | Yes                            | Yes                      | Yes                | No                  | Yes                 |
| Backlight                        | Yes                            | Yes                            | Always On                | No                 | No                  | No                  |
| Color Screen                     | Yes                            | Yes                            | Yes                      | Yes                | No                  | No                  |
| Auto Shutoff                     | Yes                            | Yes                            | Yes                      | Yes                | No                  | Yes                 |
| RPM                              | EEDMRPMG (opt.)                | EEDMRPMG (opt.)                | EEDMRPMG (opt.)          | EEDMRPMG (opt.)    | —                   | EEDMRPMG (opt.)     |
| Adjustable Trigger Level         | No                             | No                             | No                       | No                 | No                  | No                  |
| Noise Reduction Circuit          | No                             | Yes                            | No                       | No                 | No                  | No                  |
| Temperature                      | EEDMTEMP-1                     | EEDMTEMP-1                     | EEDMTEMP-1               | EEDMTEMP-2         | EEDM506C (opt.)     | EEDM506C (opt.)     |
| Duty/Dwell                       | Yes/Duty                       | No                             | No                       | No                 | No                  | No                  |
| mS Pulse Width                   | Yes                            | No                             | No                       | No                 | No                  | No                  |
| Comp. Output (USB)               | No                             | No                             | No                       | No                 | No                  | No                  |
| UL® Listed                       | cULus 61010-1                  | cULus 61010-1                  | cULus 61010-1            | cULus 61010-1      | cULus 3111          | cULus 3111          |
| CAT Rating                       | CATIII 1,000 V<br>CAT IV 600 V | CATIII 1,000 V<br>CAT IV 600 V | CATIII 600 V             | CATIII 600 V       | CATIII 600 V        | CATIII 600 V        |
| Easy Open Battery and Fuse Door  | EEDM650C-6                     | EEDM650C-6                     | Battery Only—<br>No Fuse | Yes                | No                  | No                  |
| Glitch Capture                   | Yes                            | Yes                            | No                       | No                 | No                  | No                  |
| Blown Fuse Identifier            | Yes                            | Yes                            | No                       | No                 | No                  | No                  |
| Dimensions, inches               | 3-13/16 x 8 x<br>2-13/32       | 9 x 4-1/4 x 2                  | 10.4 x 2.9 x 104         | 10 x 1-3/8 x 2-1/2 | 6 x 3 x 2           | 6 x 3 x 2           |
| Case or Zipper Pouch             | EEDM650CPB                     | EEDM650CPB<br>(opt.)           | EEDM575DBCSE             | EEDM575DBCSE       | EEDM504B4<br>(opt.) | EEDM504B4<br>(opt.) |
| Test Leads                       | EEDM504B3                      | EEDM504B3                      | EEDM504B3                | MTA24              | EEDM504B3           | EEDM504B3           |
| Fuses                            | EEDMFUSE-7,<br>EEDMFUSE-8      | EEDMFUSE-7                     | No                       | EEDMFUSE-1         | No                  | EEDMFUSE-1          |
| Low Pass Filter (LPF)            | No                             | Yes                            | No                       | No                 | No                  | No                  |

\*(Blue-Point®)

CE

Multimeters on this page include a basic lead set.

TECHNICAL SUPPORT: 1-888-382-6522

## EEDMFUSEKIT Multimeter Fuse Service Kit

- 34 pc kit includes (8) different fuses used in the Snap-on® and Blue-Point™ multimeter series
- Inside lid label identifies the meter part numbers and the required fuse
- Inside lid label also identifies the fuse amperage and voltage rating
- Base label identifies the fuse part numbers for reordering and quantity per kit
- This lightweight and organized fuse storage kit is a practical way to be more efficient
- Great for schools, fleets, military or large shops to have an entire kit in their inventory

**EEDMFUSE-1 500 mA REOMAX/600 V (3 per pack)**

**EEDMFUSE-2 10 Amp REOMAX/600 V (3 per pack)**

**EEDMFUSE-3 10 Amp /600 V (3 per pack)**

**EEDMFUSE-4 2 Amp/600 V (3 per pack)**

**EEDMFUSE-5 500 mA SIBA/700 V (3 per pack)**

**EEDMFUSE-6 10 Amp SIBA/600 V (3 per pack)**

**EEDMFUSE-7 44/100 Amp/1,000 V (1 per pack)**

**EEDMFUSE-8 11 Amp/1,000 V (1 per pack)**

**EEDMFUSE-CC Kit Replacement Case**



EEDMFUSEKIT

## EETA501C Clamp-On Amp Probe

- Measures AC and DC currents greater than 10A without breaking the circuit
- Ideal for measuring starter amps and automotive current draw
- Used with DMMs that have 2 V and 200mV AC and DC ranges
- Range: 0-20A on 200mV AC or DC, 0-400A on 2 V AC or DC
- 400 AC/DC amp



EETA501C



EETA502C

## EETA502C Clamp-On Amp Probe

- Measures AC and DC currents greater than 10 A (the limit of most DMMs) without breaking the circuit
- Ideal for measuring starter current draw (amps) and automotive current draw
- Used with DMMs that have 2 V and 200 m V AC and DC ranges
- Range: 0–2,000 A AC or DC

## EETA503C Low Current Adaptor

- AC/DC low current adaptor for digital multimeters with DC mV range and 10 mA impedance
- Measures parasitic current draw on battery cable when the key is in the off position to indicate component failures or shorts in the electrical system
- Quickly measures branch circuit draw to isolate the problem area
- Safely measures current draw of electrical fuel pumps
- Measures from 10 mA–60 amps
- Includes EETA503C1 Dual Banana Adaptor



EETA503C

## EEDM5830 Amp Adaptor

- Allows DMMs to accurately measure up to 30 A AC/DC by converting the signal to millivolts
- Measures current draw of individual circuits from fuse box on automobiles, trucks and buses
- Measures the parasitic load on the battery
- Requires no internal/external power supply
- Range of 0-30A



EEDM5830

## EEDMMAGSTRAP Magnetic Multimeter Hanger

- For use with all Snap-on® and Blue-Point® EEDM Series multimeters
- Attach the strap under the top of the multimeter boot, then choose to hang with either a hook or a magnet
- Position the display to face the work area; hands are free to probe terminal, wiring or components
- Leads can safely hang from the meter to the work area
- When using the back tilt stand, the magnet in the strap can be used to stabilize the unit; this is helpful when an engine starts and causes vibration



EEDMMAGSTRAP



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

## DIGITAL MULTIMETER ACCESSORIES



EEDMRPMG



EEDMRPMD



EEDM5997



EEDMDVA



EEDM5030



EEDMGRNDHD



EEDM506D

**EEDMRPMG Gasoline Engine RPM Adaptor**

- Ideal for small single-cylinder, 2- and 4-stroke gas engine applications
- Use with any digital multimeter that has DC mV ranges to measure gasoline engine RPM
- Plug adaptor into the DMM (set to DC mV function), clip lead above engine spark plug boot and multiply the reading by 10
- Range is 300–6,000 RPM
- Output is 1 mV DC per 10 RPM
- Powered by a 9 V battery (included)

**EEDMRPMD Diesel Engine RPM Adaptor**

- Ideal for small diesel engine applications
- Measures diesel engine RPM
- Plug adaptor into the DMM (set to IP), attach transducer to fuel line leading to an injector and read RPM on the meter
- Range is 300-4,000 RPM
- Resolution is 1 RPM, powered by a 9 V battery (included)

**EEDM5997 DMM RPM Adaptor**

- Use with 2- or 4-stroke engines
- Use in conjunction with an automotive feature meter with IP (inductive pick-up) setting
- For motorcycles, outboard motors, snowmobiles and ATVs with limited or no ignition shielding
- Internal circuitry filters out noise
- Non-intrusive pick-up features dual tapped coils to help eliminate errors

**EEDMDVA Direct Voltage Adaptor**

- Converts outboard marine, motorcycle and other small engine ignition pulse signals into DC voltage signals
- Adaptor helps identify secondary ignition problems like failed individual coil packs or poor spark

**EEDM5030 Pressure Adaptor**

- Measures pressure from 1–500 PSI and vacuum from 1–29 inHg
- Output is 1mV DC per PSI or inHg
- Ideal for measuring transmission or hydraulic pressure
- 1/4" NPT fitting on the pressure transducer
- Sensor compatible for air or liquid
- 6-1/2' cable length
- Powered by a 9 V battery

**EEDMGRNDHD Heavy-Duty Ground Lead for DMM**

- Solid-copper clip is a superior quality component for maximum electrical signal transfer
- Terminal connection ensures a positive electrical signal
- Superior flex black 18-gauge straight silicone wire glides past components and remains flexible in cold conditions
- 90° terminal with a standard 4 mm banana jack
- Length is 6' (1.83 m)

**Temperature Probes and Adaptors****EEDM506D Temperature Adaptor**

- Adds temperature capabilities to multimeters that do not have built-in temperature functions
- Provides dual temperature and differential temperature measurements for multimeters
- Output equals 1 mV per degree
- Use with any multimeter with 200 mV DC and/or 2 V DC ranges
- Provides readings from -50–1,800 °F
- Includes (2) beaded K-type temp probes
- Low battery indicator light
- Accuracy:  $\pm 0.75\%$  of full scale + one digit

The Multimeters on this page include a basic lead set.



## Temperature Probes and Adaptors

- Proven K-type thermocouple for connection to the DMM
- Can be used with the optional EEDM506D temperature adaptor for multimeters that do not have a built-in temperature function

### EEDMTEMP-1 Temperature Adaptor and Probe

### EEDMTEMP-2 Beaded Temp Probe

### EEDMTEMP-3 Temp Adaptor

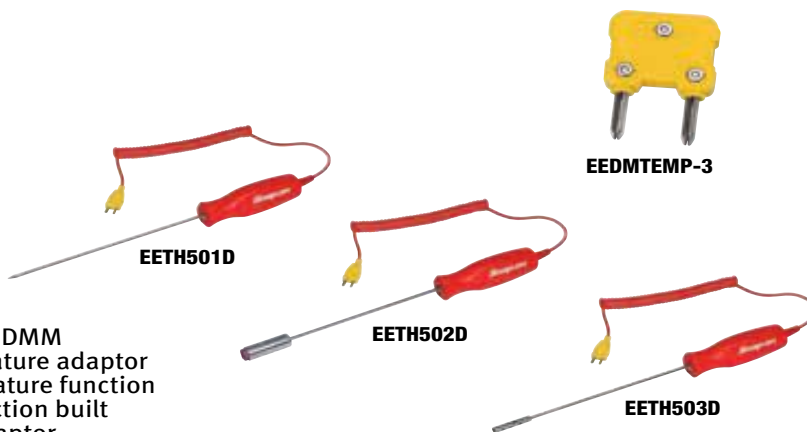


### EETH501D 8" Liquid Temperature Probe

### EETH502D 8" Surface Temperature Probe

### EETH503D 8" Tip Air Temperature Probe

- Patented Instinct® handle provides comfort and grip while probing and positioning the tip
- Stainless steel shank will not corrode
- 4' flexible coil thermo cable keeps the multimeter a safe distance from heat or cold
- Proven K-type thermocouple for connection to the DMM
- Can be used with the optional EEDM506D temperature adaptor for multimeters that do not have a built-in temperature function
- For Multimeters that do have the temperature function built in, the EETH series probes require the optional adaptor EEDMTEMP-3



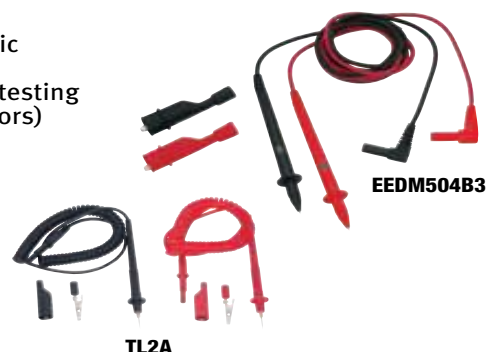
## TEST LEADS

### EEDM504B3 Test Lead Set with Alligator Clips

- Standard vinyl-jacket test lead set with screw-on alligator clips provides basic application testing needs
- Screw-on probe protectors limit the metal probe shaft from touching during testing for safety (protectors should be removed when using alligator clips or adaptors)

### TL2A Test Lead Set

- High-grade test lead pair fits all meters using standard banana plug jacks
- Nonslip prodding probes have stainless steel points
- Coiled cords stretch to more than 60"
- Screw-on alligator clips convert the leads to jumper wires
- Banana plug screws allow use with most multimeters



### MTTL725 Hard Tip DMM Test Lead Set

- 58" length offers the advantage of a greater reach
- Silicone double insulation wire jacket for safety—if outer jacket is nicked, a white underlayer is revealed
- 90° serrated flexible strain relief for improved long life
- Special tip configuration is designed to accept push-on accessories
- CAT III 1,000 V and CAT IV 1,000 V safety rating



### MTTL575 DMM Test Lead Set

- 70" length offers greater flexibility in reach
- Silicone double insulation wire jacket for safety—if outer jacket is nicked, a white underlayer is revealed
- 90° serrated flexible strain relief protects the wire from being kinked at the probe or terminal ends for longer life
- Push/pull finger collar for sure grip pressure putting on or pulling off
- CAT III 1,000 V and CAT IV 600 V safety rating
- Protective plastic collar surrounds the banana jack for safety
- Enables long-distance testing such as brake lights and underhood while in the cockpit
- Acts as an extension cord for an even longer reach when servicing large equipment
- Can be used in high-heat situations around manifolds or exhaust systems
- Jacket material will not burn, even in a flame
- Remains flexible in extreme cold where poly products get hard or stiff



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

## TEST LEADS



EETA108B

### EETA108B Test Lead Set, Extra Long

- 10' leads extend the reach of meter leads for testing hard-to-reach components
- Shielded leads block radio frequency interference (RFI)



MTTL504

### MTTL504 48" Fused Digital Test Leads

- 48" fused test leads help protect unfused digital multimeters from electronic damage
- Provide additional protection when measuring high voltage
- Includes test lead set with alligator clips and (5) extra fuses
- Overall length is 48"

### MTTL5041 3 pk 5 Amp Fuses

- (3) replacement 5A fuses for MTTL504 Fused Test Leads



TLS7B

### TLS7B Test Lead and Adaptor Kit

- Quick-attach probes and mini alligator clips press onto the straight PVC-jacketed lead set
- Threaded hook clips, standard plugs and alligator clips thread onto the probe ends
- Economical set for conducting various tests



MTTL500

### MTTL500 Test Lead Kit

- Interchangeable probes permit a wider range of testing possibilities
- Right-angle 48" long test leads are made from double-insulated silicone super-flex wire
- Spring hooks for use on 16-gauge and smaller bare wire
- Alligator clips for attachment to bolts and large wire conductors
- Spade terminals for use on terminal blocks and prods for probing wire ends



MTTL550-KIT

## High-Grade Test Leads (for Digital Multimeters)

| Stock No.  | Description                          | Set Contains: |         |         |         |             |
|------------|--------------------------------------|---------------|---------|---------|---------|-------------|
|            |                                      | MTTL500       | MTTL600 | MTTL700 | MTTL800 | MTTL550-KIT |
| MTA20      | Prods, Modular                       | •             |         |         |         |             |
| MTA70      | Set, Alligator Clips, Screw-On       |               |         |         |         |             |
| MTA75      | Alligator Clips, Medium, Modular     | •             |         |         |         |             |
| MTA80      | Spring Hooks, Modular                | •             |         |         |         |             |
| MTTL550-1  | Battery Probe, Small Hook            |               |         |         |         | •           |
| MTTL550-2  | Battery Probe, Large Hook            |               |         |         |         | •           |
| MTTL550-3  | Flexible Back-probes, Modular        |               |         |         |         | •           |
| MTTL550-4  | Heavy-Duty Battery Clip, Modular     |               |         |         |         | •           |
| MTTL550-5  | 90° Back-Probe, Rigid                |               |         |         |         | •           |
| MTTL550-CC | Nylon Roll-up Pouch                  |               |         |         |         | •           |
| MTTL7001   | Test Leads Silicone Jacket, Threaded |               |         |         | •       |             |
| MTTL7002   | Banana Plugs, Screw-On               |               | •       | •       |         | •           |
| MTTL7003   | Alligator Clips, Large, Modular      | •             | •       | •       |         | •           |
| MTTL7004   | Insulation Piercing Prods, Modular   |               | •       | •       |         |             |
| MTTL7005   | Backprobe Adaptors, Needle, Modular  |               | •       | •       |         |             |
| MTTL800-1  | Modular Test Leads                   |               |         |         |         | •           |
| MTTL800-3A | Crocodile Clips                      |               |         |         |         | •           |
| MTTL800-4  | Piercing Probes                      |               |         |         |         | •           |
| MTTL800-5  | Grabbers 90° Test Leads              |               |         |         |         | •           |
| MTTL800-6  | Prods                                |               |         |         |         | •           |
| MTTL800-7  | Spring Hooks 90°                     |               |         |         |         | •           |
| MTTL800-PB | Storage Pouch                        |               |         |         |         | •           |

€ €

### MTTL550-KIT 18 pc Battery and Electrical Circuit Test Lead Kit

- 18 piece modular kit for use with Snap-on® Digital Multimeters
  - Connect to battery or reach circuit contact locations from every angle
  - Small and large battery post adapters slide on and stay place (60 V DC)
  - Exclusive 68" modular triple-connect test leads for non-intrusive testing, can be used as a dual end test lead or non-intrusive circuit insertion lead with a meter (CAT III 1,000 volt rating)
  - Heavy-duty clamps with modular ends for quick connections (60 V DC)
  - 90° rigid back probes for limited-access areas (60 V DC)
  - Flexible back probes insert at any angle (60 V DC)
  - Nylon roll-up pouch for convenient and safe storage
- Technical Support- 1-888-382-6522

### MTTL600 Test Lead Kit with Interchangeable Tips

- Includes screw-on banana plug adaptors, needle back probe adaptors, large alligator clips and insulation piercing prods



### MTTL700 Test Lead Kit

- Includes screw-on banana plug adaptors, needle back probe adaptors, large alligator clips and insulation piercing prods
- Test leads with interchangeable tips are 50" long
- Double-insulated silicone wire is heat and flame resistant, and flexible in extreme cold conditions



### MTTL800 Test Lead Kit

- Exceptional versatility for most automotive testing needs
- For use with all Snap-on® and Blue-Point® multimeters
- Includes: MTTL7005PK Back Probes, MTTL800-1 Modular Test Leads, MTTL800-3 Crocodile Clips, MTTL800-4 Piercing Probes, MTTL800-5 Grabbers, MTTL800-6 Modular Prods, MTTL800-7 Spring Hooks and MTTL800-PB Black Nylon Pouch



### MTTL825 3 pc Modular Positive and Negative Test Lead Kit

- Silicon test leads provide superior hot and cold flexibility
- Double-insulated leads have white under the red or black material to help identify nicks or abrasions for safety
- Modular long-neck grabbers for limited access components require minimal finger pressure to activate the jaws
- CAT III 1,000 V / CAT IV 600 V safety rating
- Modular test lead terminal ends accept various optional accessories, such as prods, grabbers, alligator clips, back probes and hooks



### MTA70 Alligator Clip Set

- Screw-on-style alligator clips for use with the EEDM504B3 and EEDMLEADSET Test Lead Set



### MTTL7008 Medium Spade Terminal Prod Kit

- Non-intrusive testing of spade-style terminal blocks and connectors
- Modular banana jack for quick push-on connection to the test leads
- Heavy-duty body with finger grips provide proper pressure points for inserting the spade tip
- Fully insulated to reduce the likelihood of shorts
- CATIII 330 DC V, 3DC A safety rating
- Designed to work with DMM test leads or banana jack circuit testers
- Tip holds firm in the terminal slot to allow a free hand to jiggle wire or operate a switch



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

## TEST LEADS



### Retractable Test Leads

#### YA1175KIT ‡ Retractable Test Lead Kit (Blue-Point®)

- Includes YA1175
- Retractable test leads, YA1175-1 Probes (pair), YA1175-2 Alligator Clips (pair) and YA1175-3 Spring Hooks (pair)
- Retractable test leads pull out and stay at desired length
- Rewind test leads when not in use for compact storage
- 18-gauge copper wire and interchangeable tips

#### YA1175-1 ‡ Probes (Blue-Point®)

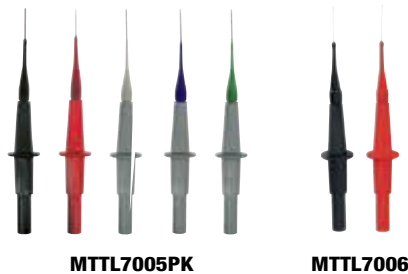
- Pair of probes for the YA1175 Retractable Test Lead

#### YA1175-2 Alligator Clips (Blue-Point®)

- Pair of alligator clips for the YA1175 Retractable Test Lead

#### YA1175-3 Spring Hooks (Blue-Point®)

- Pair of spring hooks for the YA1175 Retractable Test Lead



### Back Probes

#### MTTL7005PK Back Probes

- Color coded for easy identification
- Bendable stainless steel tips (standard diameter)
- Non-intrusive probes slide behind the terminals
- Modular ends slide quickly into the modular test leads for fast and reliable connections or use with MTTT7002 with threaded test leads
- Each probe is 4-1/2" (11.5 cm) long with a tip diameter of 1/32" (1 mm)
- Removable boots enable custom color selections or restoring color to dirty used boots with the MTTTBOOTS Multi-Pack

#### MTTL7005 Back Probe Adaptors—(1) Red, (1) Black

#### MTTL7006 Micro Tip Back Probes

- Feature a 0.5 mm diameter tip that has enough muscle to probe new smaller vehicle interior compartment connector terminals
- Modular test lead ends for quick attachment or use with MTTT7002 and threaded test leads
- Replaceable threaded tips make change-outs easy
- 4" overall length
- 4 mm standard female banana jack
- Rated to 60 V DC

#### MTTLBOOTS Replacement Boot Kit

- Five of each black, red, yellow, green, blue

#### MTTL502 Test Probes

- Use probes on threaded probe tips
- Includes banana adaptors so probes can be used on banana plug lead sets

#### MTTL720 20 pc Back Probe Pin Kit (Blue-Point®)

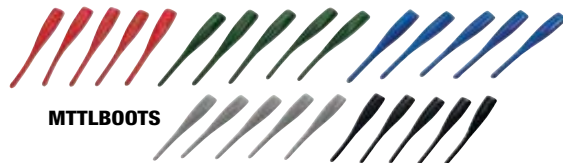
- Just slip the probing pin into the backside of the electrical connector and attach the meter lead to the alligator clip at opposite end of the pin
- Five colors (black, red, yellow, green, blue) make circuit identification easy
- Insulated boots protect the circuit being tested from shorting between circuits and/or a short circuit to ground
- Probing pin can be bent to access an electrical connector at an unusual angle for awkward connections

#### MTTLB720 20 pc Multi-Back Probe Pin Kit (Blue-Point®)

- Includes five of each: 45° sharp, 45° blunt, 90° sharp and straight sharp

#### MTTL7007 Insulated Back Probe Set

- Designed to slide between the weather protective terminal seals on vehicles for easy probing
- Slide-on terminals for easy-on positioning on threaded or straight metal prods
- 4" overall length with shaft length of 2" for good reach
- 300 volts DC, 3 amps DC rating for many applications
- CAT II 300 V DC safety rating
- Internal collar diameter: 11 mm
- Internal female diameter: 2 mm



## Hi-Viz Coiled Jump Leads

- High-grade test leads offer the highest heat and oil resistance, and exceptional coil memory
- Feature a removable “bed of nails” concept
- After removal, the probe end with a 8-32 brass thread allows for use of other product accessories

### TL624AG Test Leads

- Hi-Viz green color; 24’ extended length

### TL648AR Test Leads

- Hi-Viz red color, 48’ extended length



TL624AG



TL648AR

## Intrusive Circuit Testing Modular Adaptors for Threaded or Modular Leads

### TLB6B Adaptor

- Straight-nose test clip with black boot

### TLBBL6B Adaptor

- 15° bent-nose test clip with blue boot

### TLBR6B Adaptor

- 15° bent-nose test clip with red boot

### TLBB6B Adaptor

- 15° bent-nose test clip with black boot

### TLBL6B Adaptor

- Straight-nose test clip with blue boot

### TLR6B Adaptor

- Straight-nose test clip with red boot



TLBR6B



TLR6B

## MTTL300 4 pc Straight Jump Lead Set

- Four color-coded test leads help reduce the chance of wrong connections
- Use as test lead, jumper wires or for shorting out components when performing ignition system tests
- Each lead is 4’ long

### MTTL300-1 4’ Black Lead, Straight

### MTTL300-2 4’ Red Lead, Straight

### MTTL300-3 4’ Green Lead, Straight

### MTTL300-4 4’ Yellow Lead, Straight



MTTL300

## MTTL301 4 pc Lead Set (Black/Straight)

- Four sizes facilitate various applications that make the job easier to complete
- Alligator clips on both ends securely grip terminal connections
- Use as extension leads or for shorting out components when performing ignition system tests
- Contains 12” MTTL301-1, 18” MTTL301-2, 24” MTTL301-3, and 10’ MTTL301-4 jumper leads

### MTTL301-1 12” Black Lead – Straight

### MTTL301-2 18” Black Lead – Straight

### MTTL301-3 24” Black Lead – Straight

### MTTL301-4 10’ Black Lead – Straight



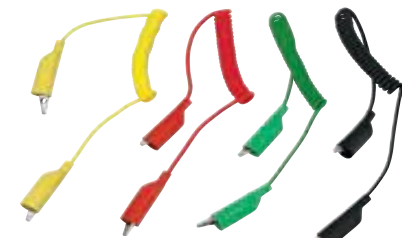
MTTL301

## MTTL310 Series Coiled Jump Leads

| Stock No. | Coiled Length, inches (cm) | Stretched Length, inches (cm) | Crocodile Clip Opening, inches (cm) | Color  |
|-----------|----------------------------|-------------------------------|-------------------------------------|--------|
| MTTL310-1 | 20 (51)                    | 48 (122)                      | 1/2 (1.27)                          | Black  |
| MTTL310-2 | 20 (51)                    | 48 (122)                      | 1/2 (1.27)                          | Red    |
| MTTL310-3 | 20 (51)                    | 48 (122)                      | 1/2 (1.27)                          | Green  |
| MTTL310-4 | 20 (51)                    | 48 (122)                      | 1/2 (1.27)                          | Yellow |

### MTTL310 Coiled Jump Leads (Four Colors)

- Four distinct colors facilitate easy identification of test circuits
- Crocodile clips on both ends securely grip terminal connections
- Coiled cord stretches to 48” (122 cm) for extra reach
- Soldered and clamped connections provide low signal loss and prolong life



MTTL310

## MTTL311 Series Coiled Jump Leads

| Stock No. | Coiled Length, inches (cm) | Stretched Length, inches (cm) |
|-----------|----------------------------|-------------------------------|
| MTTL311-1 | 10 (25)                    | 12 (30.5)                     |
| MTTL311-2 | 11 (28)                    | 18 (46)                       |
| MTTL311-3 | 13 (33)                    | 24 (61)                       |
| MTTL311-4 | 24 (61)                    | 120 (305)                     |

### MTTL311 4 pc Lead Set (Black/Coiled)

- Four sizes facilitate various applications that make the job easier to complete
- Alligator clips on both ends securely grip terminal connections
- Soldered and clamped wire connections to alligator clips provide low signal loss



MTTL311

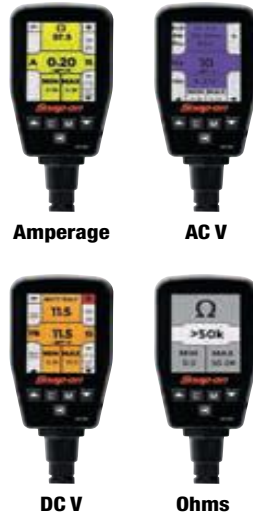


- Do not use in environment with explosive vapor
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## CIRCUIT TESTERS



EECT900



Amperage

AC V

DC V

Ohms

### Digital Display Circuit Testers

#### EECT900 Multi-Probe Ultra Capability

- Tests AC and DC voltage, resistance (ohms) and amperage in vehicle applications
- Patented circuit breaker-protected power-up of components to determine function
- Built-in vehicle battery status check provides information to the technician before proceeding with circuit diagnosis (may need to charge the battery)

#### Accessibility

- Ergonomic hand-hold position and large rear-facing color LCD display lets the user get in tight spaces and still read the live results on the screen
- Convenient 23' cable allows the user to connect to the vehicle battery and move around the vehicle, including trucks, to check distant circuits like brake lights or trailer terminal connections
- Provides audible smart-tones to indicate tip readings, warning sounds and more

#### Simplicity

- Navigation is simplified via a color-coded menu—five menu selections are identified with a unique color so the user recalls the mode in use: Purple = AC Voltage, Orange = DC Voltage, Yellow = Amperage, White = Ohms
- Single-function buttons are used for up and down scrolling, clear, menu/function toggle, mute, light on/off and +/- powering of a circuit
- Inclusive AC meter displays all measurements simultaneously—Peak to Peak, Pulse Width, Duty Cycle, Frequency and TRMS

#### Serviceability

- 23' cable is field replaceable and calibrated—saves the time of sending a complete unit in for repair if just the cable fails
- 18 month warranty
- Technical Support: 888-549-0566



EECS550-CC



EECT900-1



EECT900-2



EECT900-11



EECT900-5



EECT900-6



EECT900-9



EECT900-10

| Specifications                           | EECT900   |
|--|---|
| AC Measurement TRMS, V AC                | 200   |
| AC Measurement P-P, Volts                | 200   |
| Amp Measurement Range, Amps              | .5-50   |
| CE Approved                              | Yes   |
| Circuit Breaker Range, Amps              | 2-30  |
| DC Percentage Measurement Range          | 1-99  |
| DC Measurement Range, Volts              | .5-200  |
| Display Size, Inches                     | 2.4   |
| Hz Measurement Range                     | 15-9,999  |
| Max. Continuous Load, Amps               | 12  |
| Max. Intermittent Load, Amps/30 Seconds  | 29  |
| Max. Operating Temperature, °F (°C)      | 123 (50)  |
| Max. Operating Voltage, V DC             | 34  |
| Max. Storage Temperature, °F (°C)        | 158 (70)  |
| Max. Tip Voltage                         | 200   |
| Max. Transient Voltage, Volts per Second | 550   |
| Meter Modes                              | V DC, Ohms, Amps, V AC (Freq, TRMS, DC Percentage, P-P, PW) |
| Min. Operating Temperature, °F (°C)      | 14 (-10)  |
| Min. Operating Voltage, V DC             | 9   |
| Min. Storage Temperature, °F (°C)        | 4 (-20)   |
| Normal Battery Voltage Range, V DC       | 12-24   |
| Ohm Measurement (Continuity Only), Ohms  | 0.1-50,000  |
| Patent Number                            | 7154899   |
| Power Cable Length, Feet (Meters)        | 23 (7.01)   |
| Power Cable Gauge                        | 14  |
| Power Switch Modes                       | Momentary, Latch, Pulse                                     |
| PW Measurement Range, mS                 | 0.05-1000   |
| Special Tests                            | Batt Stat, Hot Shot   |

Product is designed to be powered by 12-24 VDC power sources such as found in Automotive, Truck, Small Craft Marine, and Small Craft Aviation electrical systems

- Unit is not intended to be connected to 110 AC or above wall outlets
- Do not supply battery voltage to any computerized circuits, sensors, air bag or supplemental restraint systems

NOTE: Due to the OHM meter capability, an extension cable cannot be used, it will negatively impact the accuracy of the readings

#### EECS550-CC Carry Case

- Optional carrying case

#### EECT900-1 23' Cable

- 23' cable for EECT900

#### EECT900-2 Battery Clamps

- Battery clamps for EECT900

#### EECT900-5 Tungsten Probe Tip, 3-1/2" Length

- Optional 3.5 mm tungsten probe tip for EECT900

#### EECT900-6 Brass Probe Tip, 3-1/2" Length

- 3.5 mm brass probe tip for EECT900

#### EECT900-9 Ground Clip with Boot

- Ground clip with boot for EECT900

#### EECT900-10 5 V Multi-Probe Adaptor (Blue-Point®)

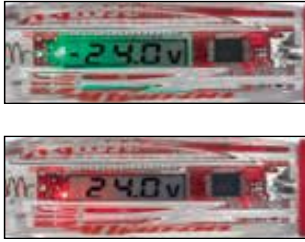
- Tip adaptor quickly connects between the tool and the probe tip to provide a safe 5 V reference signal to sensors, components and circuits
- Replaces missing ECM 5 V reference
- Safely power and tests low voltage components
- Identifies shorted sensors and circuits

#### EECT900-11 Brass Probe Tip, 6" Length

- 6" brass probe tip for EECT900



Field Replaceable Cable



**EECT424HD**

**Digital Display Circuit Testers**

**EECT424HD 24 V Digital Display Circuit Tester (4–49 V DC Range)**

- Used to detect voltage, power, ground and circuit integrity on cars and trucks
- LCD display provides a “no guess” voltage value of the circuit
- LEDs indicate Green for Ground or Red for Power
- Leaves one hand free to jiggle wires, replace a fuse or operate a switch
- Surge-protected circuitry displays 4–49.9 V DC (± 0.3 V accuracy)
- Computer safe <10 mA circuit draw for confident testing
- 3-1/2” stainless steel corrosion-free shank
- Patented Instinct® clear handle for pure visibility, style and comfort
- Solid-copper clip—superior quality component for maximum electrical signal transfer
- Superior flex wire glides past components and remains flexible in cold conditions
- Convenient field-replaceable digital display board and spring assembly

| Specifications                            | EECT424HD   |
|---|---|
| Voltage                                   | 24  |
| Range                                     | 4.0–49.9 V DC   |
| Resolution                                | 0.1 V DC  |
| Accuracy                                  | ± 0.3 Volt  |
| Cord Color                                | Red   |
| Cord Type                                 | Straight/Polyurethane                                   |
| Outside Wire Diameter, inches (mm)        | .16 (4)   |
| Cord Length, ft (m) – gauge               | 6 (2) – 18  |
| Replacement Cord Assembly                 | EECTCORD424V  |
| Replacement LED and Spring Assembly       | EECT424LCD  |
| Handle Size/Color                         | Instinct®/Clear w/Red Print                             |
| Display                                   | LCD w/Backlight   |
| Polarity                                  | Bi-Directional with Color LED, Red and Green indicators |
| Surge Protected                           | Surge and high DC voltage                               |
| Operating Temperature                     | 0–120 °F (-18–50 °C)                                    |
| Terminal End                              | Heavy-Duty Copper Clip                                  |
| Replacement Clip                          | EECTCLIPHD-R  |
| Stainless Steel Shank Length, inches (cm) | 3-1/2 (8.9)   |
| Length, inches (cm)                       | 8-1/4 (20.9)  |
| Warranty                                  | 1 Year (field repairable)                               |
| Computer Safe                             | Yes <10 mA (not for use on airbags)                     |

**Cord-Free Circuit Testers**

- For quick detection of DC voltage
- For use on autos and trucks from 3–24 V DC
- Probe the wire and touch metal ground on the vehicle with a free hand
- Black carbon-infused contact area completes the circuit
- Mini Instinct® handle and short stainless shank for tight access jobs
- Pocket clip to keep the first need diagnostic tool ready for work
- Safety tip-protector
- Do not use on airbags or AC voltage

**EECT200 Cordless DC Circuit Tester**

- Audible beep and bright white LED light alerts the user to DC voltage presence

**EECT201BL Cord-Free Pocket DC Circuit Tester**

- Vibration, audible beep and bright LED light alerts the user to DC voltage presence



**EECT200**

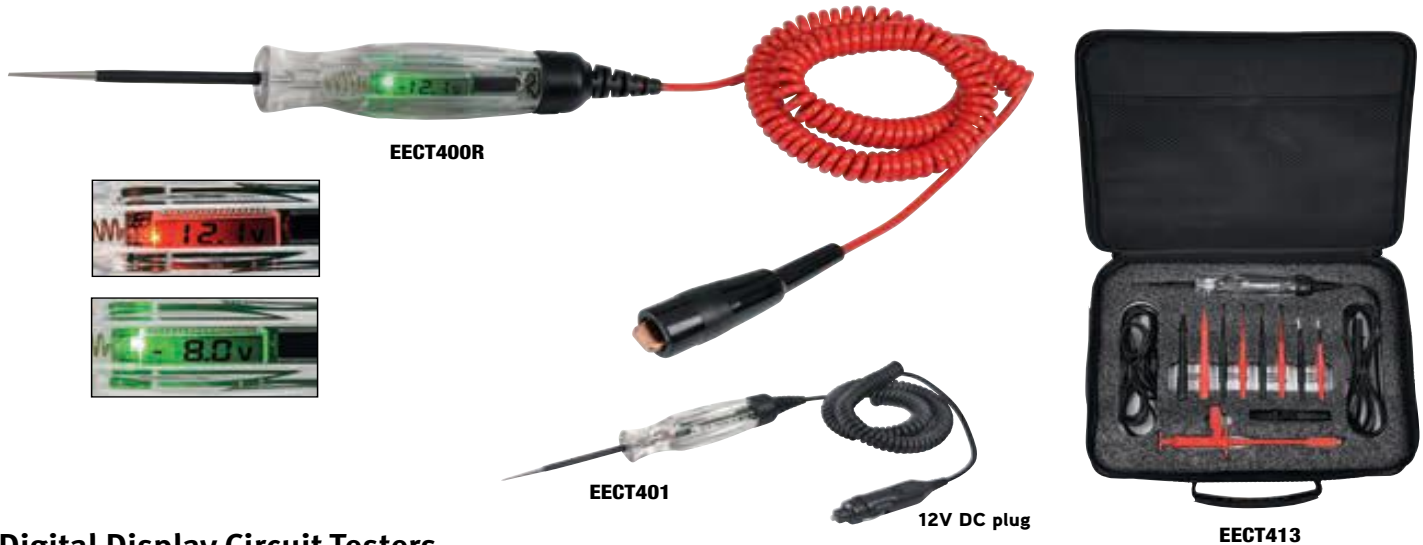


**EECT201BL**



• Do not use in environment with explosive vapor  
 • Read safety precautions on pages W1 to W4

## CIRCUIT TESTERS



### Digital Display Circuit Testers

| Specifications                               | EECT400*  | EECT401   | EECT413   |
|--|---|---|---|
| <b>Voltage</b>                               | 6 and 12 V DC   | 6 and 12 V DC                                   | 6 and 12 V DC                                   |
| <b>Range</b>                                 | 3–19.9 V DC   | 0.0–19.9 V DC                                   | 3–19.9 V DC                                     |
| <b>Resolution</b>                            | 0.1 V DC  | 0.1 V DC  | 0.1 V DC  |
| <b>Accuracy</b>                              | ±0.3 V  | ±0.3 V  | ± 0.3 V   |
| <b>Cord Color</b>                            | Black   | Black   | Black   |
| <b>Cord Type</b>                             | Flexible Rubber   | Coiled Flexible Rubber                          | Straight Rubber                                 |
| <b>Outside Wire Diameter</b>                 | 4.0 mm (0.16")  | —   | 4.0 mm (0.16")                                  |
| <b>Cord Length, ft (m) – gauge</b>           | 6 (2) – 18  | 13 (3.6) – 18                                   | 11.8 (3.5)                                      |
| <b>Replacement Cord Assembly</b>             | EECTCORD400 (black),<br>EECTCORD4000 (orange),<br>EECTCORD400G (green),<br>EECTCORD400R (red) | EECTCORD401                                     | EECTCORD413                                     |
| <b>Replacement LED and Spring Assembly</b>   | EECT400W-LCD  | EECT401LCD                                      | EECT400W-LCD                                    |
| <b>Handle Size/Color</b>                     | Medium Instinct®/Clear  | Medium Instinct®/Clear                          | Medium Instinct®/Clear                          |
| <b>Display</b>                               | Backlit 2,000 Count LCD   | LCD w/Backlight                                 | Backlit LCD                                     |
| <b>Polarity</b>                              | Bi-Directional  | Bi-Directional                                  | Bi-Directional                                  |
| <b>Surge Protected</b>                       | Overload Displays 1.0 V, Then Resets  | Yes   | Overload Displays 1.0 V, Then Resets            |
| <b>Operating Temperature</b>                 | 0–120 °F (-18–50 °C)  | 0–120 °F (-18–50 °C)                            | 0–120 °F (-18–50 °C)                            |
| <b>Terminal End</b>                          | Heavy-Duty, Copper Clip   | 12 V DC Plug                                    | Safety-Style Fixed-Shroud Banana Jack           |
| <b>Replacement Clip</b>                      | EECTCLIP  | —   | —   |
| <b>Stainless Steel Shank Length, inches</b>  | 3-1/2   | 3-1/2   | 2-1/2   |
| <b>Boot</b>                                  | EECTBOOT  | —   | —   |
| <b>Length, inches (cm)</b>                   | 8-1/4 (20.96)   | 8-1/4 (20.96)                                   | —   |
| <b>Warranty</b>                              | 1 Year, Field Repairable  | 1 Year, Field Repairable                        | 1 Year, Field Repairable                        |
| <b>Computer Safe</b>                         | Yes, 10 mA or Less Draw (do not use on airbags)   | Yes, 10 mA or Less Draw (do not use on airbags) | Yes, 10 mA or Less Draw (do not use on airbags) |
| <b>Replacement Carrying Case Part Number</b> | —   | —   | EECTS550-CC                                     |

CE

TECHNICAL SUPPORT 1-888-382-6522

#### EECT400 12 V DC Digital Display Circuit Tester

- Used to detect 12 V DC voltage, power, ground and circuit integrity
- LCD display eliminates guesswork and provides the voltage value of the circuit
- LEDs indicate Green for Ground or Red for Power
- One hand is free to jiggle wires, replace a fuse or operate a switch
- Provides one-handed operation of a circuit tester and the digital display of a multimeter
- Surge-protected circuitry displays 3–19.99 V DC (±0.3 V accuracy)
- Patented Instinct® clear handle for pure visibility, style and comfort
- Solid-copper clip provides superior quality for maximum electrical signal transfer
- Terminal screw connection ensures a positive electrical signal and easy field repair
- Superior flex wire glides past components and remains flexible in cold conditions
- Convenient field-replaceable digital display board and spring assembly
- Molded contact and finger-turn strain relief are tough
- O-ring-sealed moisture-free connection for longer life
- Technical Support: (888) 382-6522

#### Colors Available



\* O G  
ADD SUFFIX TO STOCK NUMBER  
FOR SPECIAL COLORS





**6 and 12 V Circuit Testers**

| Specifications                              | EECT2H                   | EECT3HL                  | EECT4H                 | EECT30H                |
|---|--------------------------|--------------------------|------------------------|------------------------|
| <b>Voltage</b>                              | 6 and 12 V DC            | 6 and 12 V DC            | 6 and 12 V DC          | 6 and 12 V DC          |
| <b>Cord Type/Color</b>                      | Straight Cord Mini/Black | Straight Cord Mini/Black | Straight Cord/Black    | Straight Cord/Black    |
| <b>Cord Material/Wire Gauge</b>             | Rubber/18                | Rubber/18                | Rubber/18              | Rubber/18              |
| <b>Outside Wire Diameter</b>                | 4.0 mm                   | 4.0 mm                   | 4.0 mm                 | 4.0 mm                 |
| <b>Cord Length, inches (extended)</b>       | 70                       | 70                       | 70                     | 70                     |
| <b>Replacement Cord Assembly</b>            | EECTCORDBLM              | EECTCORDBLM              | EECTCORDBLS            | EECTCORDBLS            |
| <b>Replacement LED and Spring Assembly</b>  | EECT2HLED/White          | 2-5130 Classic Bulb      | EECT4HLED/White        | —                      |
| <b>Handle Size/Color</b>                    | Mini Instinct®/Clear     | Mini Instinct®/Clear     | Medium Instinct®/Clear | Medium Instinct®/Clear |
| <b>Replacement Clip</b>                     | EECTCLIP2                | EECTCLIP                 | EECTCLIP               | EECTCLIPHD-B           |
| <b>Boot</b>                                 | EECTBOOT2                | EECTBOOT                 | EECTBOOT               | —                      |
| <b>Stainless Steel Shank Length, inches</b> | 2                        | 3-5/8                    | 3-5/8                  | 3-5/8                  |

Do not use on airbags

**EECT2H LED Mini Circuit Tester**

- Features our smallest handle and reduced shank length for limited-space jobs
- Patented Instinct® handle for style and comfort
- Smart LED design has more brilliant light output and longer life than a traditional bulb
- Molded internal contact links with the LED assembly top dimple for low-loss signal transfer
- Finger turn screw-on strain relief is easy on/off, has flexible wire protection at the critical bending point and is O-ring sealed

**EECT3HL Classic Bulb-Style Circuit Tester**

- 6' straight rubber cord; 3-5/8" stainless shank
- Terminal screw connection makes cord replacement easy and ensures a positive electrical signal connection
- Superior flex wire glides past components and remains flexible in cold conditions
- Premium rubber boot material stays flexible over its life and is replaceable if worn
- Copper clip maximum electrical signal transfer

**EECT4H LED Circuit Tester**

- Used to detect power and ground, and also to find shorts and breaks
- Patented Instinct® handle for style and comfort
- Molded internal contact links with the LED assembly top dimple for low-loss signal transfer
- Smart LED design has more brilliant light output and longer life than a traditional bulb
- Copper clip is a superior quality component for maximum electrical signal transfer
- Superior flex wire glides past components and remains flexible, even in cold conditions

**EECT30H 6/12 V Classic Bulb Circuit Tester**

- Incandescent bulb brightness adjusts proportionately to the circuit voltage: the higher the circuit voltage, the brighter the light
- Patented medium Instinct® handle for style and comfort
- Superior flex wire glides past components and remains flexible in cold conditions
- 6' straight rubber cord; 3-5/8" stainless shank
- Heavy-duty copper clip bites and holds battery terminal while providing maximum electrical signal transfer
- Technical Support: 1-888-382-6522



TLS4A

**Battery Adaptors**

**TLS4A Battery Adaptor (Blue-Point®)**

- 12 V accessory adaptor supplies power to the EECT401 circuit tester as well as to most other 12 V-powered devices
- 3' cord length



EECTCORD424V

**EECTCORD424V Red Straight with Heavy-Duty Clip**



EECTCORD400U

**EECTCORD400U Black Coil with Heavy-Duty Clip**



EECTCLIPHD-B

**EECTCLIPHD-B Optional Field-Replaceable Heavy-Duty Clamp**



EECTCLIPHD-R

**EECTCLIPHD-R Optional Field-Replaceable Heavy-Duty Clamp**



• Do not use in environment with explosive vapor  
 • Read safety precautions on pages W1 to W4

## CIRCUIT TESTERS



EEDMCT-KIT

### EEDMCT-KIT Digital Multimeter, Circuit Tester and "Y" Terminal Master Kit

- Bring the all-in-one kit to the job for 12 and 24 V auto and truck electrical testing
- Includes the EEDM504D, EECT413 and MTTL900-KIT sets in one complete diagnostic package
- The circuit tester is used with various non-intrusive probes and adaptors for quick testing
- Our most popular digital multimeter includes the addition of resistance, AC and DC voltage testing, and more
- Unique "Y" adaptor enables testing of a single terminal, or inline testing of a circuit or terminal harness
- Portable storage case fits in 4" tall and 18" deep tool storage drawers with no wasted space
- Foam organizer includes cut-out silhouette of each component, part number, description and color for excellent organization of tools

### EECTDM-FOAM Foam

### EECTDM-CASE Case



MTTL900-KIT

### MTTL900-KIT Multimeter "Y" Terminal Adaptor Kit

- 12 and 24 V DC automotive terminal kit for use with EEDM Series Digital Multimeters or EECT Circuit Testers
- Unique "Y" adaptor enables testing of single terminal, or inline testing of a circuit or terminal harness
- Non-intrusive circuit testing with a banana jack adaptor for DMM test lead or circuit tester connection
- High-quality silicon wire is flexible in cold conditions and protected against high heat conditions
- (34) color coded adaptors makes them easy to find and select for quick connections
- Includes MTTL7002 threaded to modular adaptor (Red and Black)
- Carry case fits in 4" tool storage drawers with no wasted space

### MTTL900R-XL Round XL Red Y Terminal

### MTTL900R-L Round L Green Y Terminal

### MTTL900R-M Round M Brown Y Terminal

### MTTL900R-S Round S Blue Y Terminal

### MTTL900R-M1 Round M1 Black Y Terminal

### MTTL900R-M2 Round M2 Red Y Terminal

### MTTL900S-XL Spade XL Red Y Terminal

### MTTL900S-L Spade L Green Y Terminal

### MTTL900S-M Spade M Brown Y Terminal

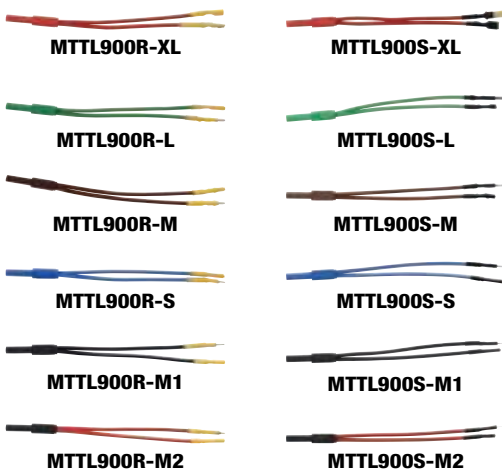
### MTTL900S-S Spade S Blue Y Terminal

### MTTL900S-M1 Spade M1 Black Y Terminal

### MTTL900S-M2 Spade M2 Red Y Terminal

### MTTL900-FOAM Foam Insert

XL and L quantity 2, all others quantity 3.



## Storage Racks

- Three heavy-duty magnets for quick attachment and mobility
- Stores inside the door of tool storage lockers for security at night
- Both racks can be mounted to the wall with screws or placed on a roll cab with a magnetic back
- Ideal for use on the side of a toolbox or service cart
- Attaches to any flat metal surface

### EEDMRACKBJR DMM Banana Jack Storage Rack

- Convenient rack with banana jacks to hold test leads, back probes, adaptors and more

### EEDMRACKM Multi-Purpose Magnetic Tool Storage Hanger



EEDMRACKBJR



EEDMRACKM

## Specialty Circuit Tester

### EECT74 Amp Hound (Blue-Point®)

- For use on 6, 12 and 24 V electrical systems
- No need to remove a fuse, reducing the amount of time to determine the current in the circuit
- Finds parasitic drains without resetting the offending circuit
- Checks the fuse box quickly without repeatedly pulling a fuse and checking the meter
- Will not short a circuit while the fuse is removed
- Touch the probes to the top of the fuse
- Tests all of the most common types of automotive fuses and amp ranges
- Intelligent audible tones and digital displays
- Active circuit unit beeps three times and displays the amp value
- Inactive circuit beeps continuously and displays (000)
- Open or blown fuse will not beep and displays (---)

### EECT72 ‡ Amp Hound 2 (Blue-Point®)

- Same as the EECT74 with additional features
- Real-time readings
- Plug-in fuse adaptors
- Functions with micro fuses



EECT74



EECT72

## Dynamic Test Leads

### EECT180 LOADpro® Dynamic Test Leads (Blue-Point®)

- LOADpro® quickly finds problems like high-corrosive resistance, shorts to ground and open circuits
- Works with any DMM with standard banana plugs
- Test leads are 60" in length
- For use on circuits up to 28.5 V
- Do not use on computer ECM input circuits
- LOADpro® performs a voltage drop test with the press of a button
- Steady pin probe tips—a small recess allows the probe to sit on the connector pin
- Pressing the switch applies a load of 40 mA per volt across the circuit (example: 40 mA x 12 V = .48 A of load)
- Used for automotive, heavy-duty, marine, RV and equipment
- Includes the ES182 Troubleshooting Guide



EECT180

## OBD-II Breakout Boxes

### YA11167 OBD-II Breakout Box (Blue-Point®)

- Provides easy access to all 16 OBD-II terminals
- Eliminates guessing which terminals are being probed
- Eliminates damage to vehicle terminals from probing
- Tester probes plug in securely so the technician is free to diagnose
- No more crawling under the dash
- Great for diagnosing inoperative communication links



YA11167



- Do not use in environment with explosive vapor
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## CIRCUIT TESTERS



EECT60660



EECT60660-1



EECT60660-2



EECT60660-3



EECT60660-4



EECT60660-5



EECT60660-6



EECT60660-7



EECT60660-8



EECT60660-9



EECT60660-10



EECT60660-11



EECT60660-12

### Relay Test Kit

#### EECT60660 Deluxe Relay Test Kit (Blue-Point®)

- Eight color-coded relay test jumpers make a selection easy
- Each relay test jumper has metal pins on its side, making test lead connection fast
- Connecting a jumper wire (included) between two specified jumper tabs tests the relay
- Kit also comes with test leads to connect the test jumper to meter leads
- Relay puller pliers easily removes electrical relays without damage to the relay or electrical box
- Kit makes testing relays or live circuits quick and easy
- Includes (8) jumpers to fit most popular relays
- Includes test lead kit for easily and securely connecting relay test jumpers to a multimeter

#### EECT60660-1 Test Jumper

#### EECT60660-2 Test Jumper

#### EECT60660-3 Test Jumper

#### EECT60660-4 Test Jumper

#### EECT60660-5 Test Jumper

#### EECT60660-6 Test Jumper

#### EECT60660-7 Test Jumper

#### EECT60660-8 Test Jumper

#### EECT60660-9 Banana Plug Adaptor

#### EECT60660-10 Y-Terminal Lead with Green Plug

#### EECT60660-11 Terminal Lead with Blue Plug

#### EECT60660-12 Terminal Lead with Yellow Plug

#### EECT60660-PB Storage Case



YA8006



YA8005



YA8005-5



YA8005-30



YA8005-11



YA8005-7

### Fuse Savers

#### YA8006 ‡ Master Fuse Saver Kit (Blue-Point®)

- Dual-type fuse box connector with 10' cord allows the user to move around the vehicle testing wires while looking for the short
- No wasted fuses
- Includes: 5, 10, 15, 20 and 30 A resetting breaker handles, buzz alert module and (6) fuse adaptors

#### YA8005 ‡ Fuse Saver Kit (Blue-Point®)

- Dual-type fuse box connector with 10' cord allows the user to move around the vehicle testing wires while looking for the short
- Includes 10, 15 and 20 A resetting breaker handles

#### YA8005-5 ‡ 5 Amp Breaker Handle

#### YA8005-10 ‡ 10 Amp Breaker Handle

#### YA8005-15 ‡ 15 Amp Breaker Handle

#### YA8005-20 ‡ 20 Amp Breaker Handle

#### YA8005-30 ‡ 30 Amp Breaker Handle (Blue-Point®)

#### YA8005-11 ‡ Buzz Alert Adaptor (Blue-Point®)

- Buzz alert sound module

#### YA8005-14 6 pc Fuse Saver

#### Adaptor Set (Blue-Point®)

#### YA8005-7 ‡ Dual Connector with 10' Cord

- Allows you to move around the vehicle testing wires while looking for the short

#### YA8005-EXT ‡ 10' Extension Cord

#### YA8005-PB Storage Case

- Storage case for the YA8005 Fuse Saver Kit

**Short-Circuit Locators**

**YA111KITA Relay Shorting Plug Kit (Blue-Point®)**

- Plugs close normally open contacts and instantly determine which half of an output circuit is suspect
- Eliminate guessing which terminals to short
- Significantly reduce diagnostic time
- Kit works on all vehicles using standard four- and five-pin relays
- Avoids damage to the relay socket as a result of probing

**YA111-10A Relay Shorting Plug (Blue-Point®)**

- 10 A

**YA111-15A Relay Shorting Plug (Blue-Point®)**

- 15 A

**YA111-20A Relay Shorting Plug (Blue-Point®)**

- 20 A



YA111KITA

**Continuity Testers**

**EEFB310 Fuse Buddy® Pro Test Kit (Blue-Point®)**

- Great tool for reading circuit amperage draws and troubleshooting up to 30 A
- Includes (1) meter with (3) interchangeable test functions: 30 A MINI circuit current testing, 30 A ATC circuit current testing and 30A all-purpose current testing
- Plugs directly into MINI and ATC fuse sockets
- Original fuse is replaced in-line, maintaining circuit protection
- Measuring range: 0–30 A/48 V DC 10 seconds
- Accuracy: ±2% of reading
- Resolution: 100 mA

**EEFB310-1 Replacement Fuse Buddy® Pro Meter (Blue-Point®)**

**EEFB310-2 Fuse Buddy® Pro ATC Adaptor Set**

**EEFB310-3 Fuse Buddy® Pro ATC Fuse Adaptor Set**

**EEFB310-4 Fuse Buddy® Pro Positive/Negative Clamp Adaptor Set**

**EEFB315 Max Fuse Buddy® Kit (Blue-Point®)**

- MAXI circuit testing capability up to 80 A
- Works with MINI and ATC circuits (adaptors included)
- Unit features peak hold functions and one-touch zero function
- Use on antilock brake circuits, car stereo circuits, power distribution circuits, marine and automotive branch circuits, rear window defogger circuits, solar power DC branch circuits, traction control circuits, solar charge controller circuits and heavy-duty equipment circuits
- Amps: 0–80A DC
- Resolution: 0.1A
- Accuracy: ±2.0% of reading + four digits

**EEFB315-1 ATC Fuse Adaptor for Max Fuse Buddy® (Blue-Point®)**

**EEFB315-2 Mini Fuse Adaptor for Max Fuse Buddy® (Blue-Point®)**



EEFB310



EEFB315



- Do not use in environment with explosive vapor
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## CIRCUIT TESTERS



YA8026



YA8027



YA8028



YA8029



TLT8000



TLT5



TLT6



TLT7



YA3179B

### Trailer Harness Testers and Adaptors

#### YA8026 † Towing Maintenance Kit (Blue-Point®)

- Used for four-/five-pin vehicle side circuit testing and cleaning
- Tests, cleans and repairs truck and trailer connections
- Great preventative maintenance tool
- Extends harness life
- Eliminates guesswork, reduces downtime and improves safety
- Kit includes a four-/five-pin tester, a terminal cleaning tool and a 2 mL tube of DeoxIT® electric contact cleaner
- Packaged in a compact clamshell

#### YA8027 † Towing Maintenance Kit (Blue-Point®)

- Used for six-round-pin vehicle side circuit testing
- Tests, cleans and repairs truck and trailer connections, plus light assemblies
- Great preventative maintenance tool
- Extends harness life
- Eliminates guesswork, reduces downtime and improves safety
- Kit includes six-round-pin tester, two terminal cleaning tools and a 2 mL tube of DeoxIT® electric contact cleaner
- Packaged in a compact clamshell

#### YA8028 † Towing Maintenance Kit (Blue-Point®)

- Used for seven-spade-pin vehicle side circuit testing and cleaning
- Tests, cleans and repairs truck and trailer connections
- Great preventative maintenance tool
- Extends harness life
- Eliminates guesswork, reduces downtime and improves safety
- Kit includes seven-spade-pin tester, two terminal cleaning tools and a 2 mL tube of DeoxIT® electric contact cleaner
- Packaged in a compact clamshell

#### YA8029 † Towing Maintenance Kit (Blue-Point®)

- Used for seven-round-pin vehicle side circuit testing and cleaning, plus seven-round-pin connector cleaning
- Tests, cleans and repairs truck and trailer connections
- Great preventative maintenance tool
- Use as a pin wear gauge on trucks and trailers
- Eliminates guesswork, reduces downtime and improves safety
- Kit includes a YA3179B seven-round-pin tester, IPA8024-AS1 and IPA8024-AS2 Round-Pin Terminal Cleaners, plus a 2 mL tube of DeoxIT® electric contact cleaner

#### TLT8000 † 3-Way Trailer Adaptor (Blue-Point®)

- Adapts a seven-way connection to six round pin and four-/five-pin connections
- Sealed plugs keep road debris from corroding connections
- Winged grip for easy installation and removal
- For use on medium-/light-duty trucks, 1/2-, 3/4- and 1-ton pickups, campers and other heavy-duty applications

#### TLT5 † Trailer Harness Tester

- Easily locates electrical problems in the tow vehicle
- Checks both four- and five-pin flat trailer connectors with LED indicator lights
- Tests left and right signals, brake lights and running lights

#### TLT6 † Trailer Harness Tester

- Checks six-pin round trailer connectors with LED indicator lights
- Same applications as TLT5

#### TLT7 † Trailer Harness Tester

- Easily locates electrical problems in the tow vehicle
- Checks seven-spade/flat-pin trailer connectors with LED indicator lights
- Tests left and right signals, brake lights and running lights

#### YA3179B † Circuit Chaser

- Round-pin circuit chaser for semitrailers
- Test the semi trailer plug and cable
- Both male and female ends so the technician can isolate a fault to the trailer or cable
- Can temporarily repair short circuits in the shop or on the road
- Includes (5) jumper tabs and (1) replacement prong

### AC Voltage Sensor

#### MTAC110 AC Voltage Sensor

- Non-intrusive AC sensor detects voltage from 110–600 V AC
- Used to ensure the absence of current before working on a circuit
- Moving the probe tip along an insulated wire, near an outlet or near a circuit breaker making the tip glow if voltage is present
- Uses (2) AAA 1.5 V batteries (included)
- 5-3/4" (146 mm) long
- Meets OSHA standards
- UL® listed



MTAC110



AC41C

### Electrical Brush

#### AC41C Taillight Socket Brush (Blue-Point®)

- Stiff carbon-steel wire bristles
- 6-5/8" long



EELD500

### EELD500 Smart Smoke® Machine

- Smart Smoke® technology diagnoses eight of the top 10 DTC codes
- Digital readout displays leak sizes down to 0.001 LPM and pressure/vacuum in H<sub>2</sub>O
- Self-calibrates for .010, .020, .040 and automatically performs an EVAP pass/fail test
- One-touch EVAP testing with automatic pass or fail
- Low-flow mode makes it easier to find leaks
- Vacuum port adaptor diagnoses Chrysler® ESIM and NVLD systems
- Find leaks; the evaporative emissions diagnostic smoke machine delivers EVAP testing and general-purpose applications
- Conveniently functions with OEM-specified nitrogen, a portable CO<sub>2</sub> bottle (ships empty) or shop air
- UltraTraceUV® dye solution pinpoints leaks
- OEM-approved smoke technology
- Smoke solution is safe and does not produce unpleasant odor in the shop
- Three-button control Display Select, Orifice Select and Start

### EELD500 and EELD100A APPLICATIONS:

- Air cleaner assembly • Air ducts • Air valves • Cylinder heads • Diaphragms • EGR valve • EVAP • Exhaust manifolds • Exhaust pipes and mufflers • Fuel Tank Pressure Sensor • Intercooler • Intake gaskets • Injector O-rings • Loose clamps • MAP sensors • Mass airflow meter • Oil leaks • PCV valve and hoses • Throttle body shaft • Turbos • Vacuum hoses • Vacuum switches • Wind and water

### Included Accessories:

- EELD500-1 8 oz UltraTraceUV® Dye Solution
- EELD500-2 Large Adaptor Cone
- EELD500-3 Vacuum Adaptor
- EELD500-4 Combination LED/UV Light and Glasses
- EELD500-Z User Manual
- EELD500-5 Removeable Battery Clamp Lead Set (for Pre-2020 models)
- EELD500-6 Smoke Hose
- EELD500REM Remote Control
- EELD301A2 17 pc Cap Plug Kit
- EELD301A3 Exhaust Cone Adaptor
- EELD301A4 Wind/Water Leak Adaptor
- EELD302A2 EVAP Service Port Adaptor Standard Size
- EELD302A4 Schrader Valve Core Tool

### Optional Accessories:

- EELD500C02 CO2 Bottle and Regulator (for EELD500)
- EELD500CVR Protective Cover
- YA4000B † Automotive Test Kit (Blue-Point®)
- EELDGASBMW Gas Cap Adaptor BMW® (Blue-Point®)
- EELDGASCAP Fuel Tank Filler Neck Adaptor (Blue-Point®)



EELD500CVR

### Portable Diagnostic Smoke Machine

| Specifications                      | EELD500                                      |
|-------------------------------------|--|
| Power Supply                        | 12 V DC                                      |
| Power Consumption                   | 12/18 V DC, 25 A                             |
| Supply Volume                       | 10 L/MIN                                     |
| Line Length/Smoke Supply, ft (m)    | 8 (2.44)                                     |
| Line Length/Power Supply, ft (m)    | 8 (2.44)                                     |
| Line Length/Remote Starter, ft. (m) | 50 (15.24)                                   |
| Overall Dimensions, inches (mm)     | 12 W x 9 D x 12 H<br>(310 W x 230 D x 310 H) |
| Max. Output Test Pressure           | 13 in/H <sub>2</sub> O                       |
| Max. Pressure Input                 | 170 PSI                                      |
| Weight, lb (kg)                     | 11.5 (5.25)                                  |

- Includes a combination LED/UV light and remote control
- Convenient hanger for undercar and underhood use
- Lightweight and compact—stores in a large bottom roll cab drawer or hangs with an optional cover to protect from shop dirt and dust
- Includes: Large adaptor cone, vacuum adaptor, a combination LED UV light and yellow glasses, removable battery clamp lead set, remote control, user manual, assorted cap-plug set, exhaust cone (1 x 3-1/2" dia./6" long), smoke diffuser (for finding wind/water leaks), EVAP service port adaptor that fits standard- and dual-size Schrader removal/installation tool
- Optional accessories include a CO<sub>2</sub> bottle and regulator, protective cover, an 8 oz bottle of solution, second smoke hose, vacuum pump, gas cap adaptor (3 pk) and a BMW® gas cap adaptor



EELD500-4

EELD500C02

EELDGASCAP



- Do not use in environment with explosive vapor
- Use only in well ventilated area
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# LEAK DETECTORS



EELD100A

### EELD100A Diagnostic Smoke® Machine (EVAP)

- Finds leaks
- Contains Diagnostic Smoke® technology for EVAP testing and general-purpose applications
- UltraTraceUV® non-contaminating dye solution pinpoints leaks that smoke cannot locate alone
- Includes a combination LED and UV light, plus special glasses
- Necessity—Eight of the top 10 emission DTC codes can be diagnosed with this unit
- Smoke solution does not produce an unpleasant odor in the shop
- Variable flow control manually reduces the flow to help pinpoint the exact location of a leak
- Conveniently functions with OEM-specified optional nitrogen, a portable CO<sub>2</sub> bottle (ships empty) or shop air
- Convenient retractable hanger for under car and under hood use
- Lightweight and compact stores in a large bottom roll cab drawer or hangs with an optional cover to protect from shop dirt

## Diagnostic Smoke Machine

| Specifications                     | EELD100A†                                     |
|------------------------------------|---|
| Power Supply                       | 12 V DC                                       |
| Power Consumption                  | 12 V DC, 25 A                                 |
| Supply Volume                      | 10 L/MIN                                      |
| Line Length/Smoke Supply, ft (m)   | 8 (2.44)                                      |
| Line Length/Power Supply, ft (m)   | 8 (2.44)                                      |
| Line Length/Remote Starter, ft (m) | 10 (3)  |
| Max. Pressure Input                | 170 PSI                                       |
| Overall Dimensions, inches (mm)    | 12 W x 13 D x 12 H<br>(305 W x 229 D x 305 H) |
| Weight, lb (kg)                    | 11.5 (5.25)                                   |

† C E

### Included Accessories:

- EELD100-4 Combo Light (Blue-Point®)**
- EELD100A-3 Smoke Hose Extension with Delrin® Nozzle**
- EELD100A-4 Tee Connector with Delrin® Nozzle**
- EELD301A2 17 pc Cap Plug Kit**
- EELD301A3 Exhaust Cone Adaptor**
- EELD301A4 Wind/Water Leak Adaptor**
- EELD302A1 Nitrogen Hose**
- EELD302A2 EVAP Service Port Adaptor Standard Size**
- EELD302A3 EVAP Service Port Adaptor Fitting**
- EELD302A4 Schrader Valve Core Tool**



EELDCAPLESS

### EELDCAPLESS Capless Fuel Tank Adaptor

- Specifically designed for new capless fuel tank filler necks
- EVAP testing is simplified through a dual-door fill neck; no need to tap into EVAP system
- For use with EELD500 or EELD100A smoke machines (sold separately)
- Seals both doors with a simple twist of the perforated knob to expand the bladder for accurate testing

## Evaporative Emissions Diagnostic Smoke® Vapor Producing Machines – Feature Comparison

|  | EELD100A | EELD500 |
|--|----------|---------|
| Uses Diagnostic Smoke® vapor technology developed in collaboration with Ford Motor Co., GM®, Daimler Chrysler® and approved by most major OEMs.  | •        | •       |
| Non-contaminating UltraTraceUV dye solution pinpoints the leak. The only dye solution mandated by most major OEM's. Will not harm activated charcoal canister, ORVR valve, purge valves, catalytic converters, O <sub>2</sub> sensors, seals or gaskets and determined not to void vehicle factory warranty. | •        | •       |
| Technology meets specifications when OEMs require nitrogen for safer EVAP system testing.  | •        | •       |
| Designed with an electronic Safety Valve that automatically shuts off air flow into the vehicle's EVAP system when the machine turns off. This stops gasoline fumes from exiting the EVAP system and filling your work bay.  | •        | •       |
| TECH LINE Supported 1-800-901-1988 for end user to help with any and all EVAP problems.  | •        | •       |
| Vacuum/Pressure Gauge for vacuum/pressure decay.   | •        | •       |
| Convenient Hook with fold down handle for hanging under car or under hood and easy storage in tool box.  | •        | •       |
| Ability to read and display leak size of .010".  | •        | •       |
| 10-Year Warranty On Glow Plug a reliable heating system that lasts much longer than fiberglass wick-style units.   | •        | •       |
| Variable Flow Control manually reduces flow to help pinpoint the exact location of a leak.   | •        |         |
| Low Flow Pulsating Mode automatically adjusts flow to optimal setting to help find small leaks.  |          | •       |
| One-Touch EVAP Testing with automatic pass or fail.  |          | •       |
| Vacuum Port Adapter can apply hand vacuum pump for testing Fuel tank Pressure Sensors, Chrysler ESIM & NVLD systems. Also gives you dual smoke hose capability.  |          | •       |
| Computerized Digital Display down to .001" means you're prepared for any industry leak standard changes.   |          | •       |
| Computerized Digital Display Reading Flow in Liters per Minute to make sure factory specs are met.   |          | •       |
| Computerized Digital Display Reading Pressure/Vacuum in H <sub>2</sub> O to compare to FTP Sensor for in-depth diagnostic ability.   |          | •       |
| Sleep Mode with Memory retains test results if machine shuts down after five minutes.  |          | •       |
| Cordless remote so there is no need to walk back and forth when doing a job.   |          | •       |
| Micro-processor touch pad for quick and easy operation.  |          | •       |
| Ability to Choose Inert Gas at start-up for 100% accurate results.   |          | •       |





## Portable Diagnostic Smoke Machine

### EELD600HD High-Pressure, Heavy-Duty Smoke Machine and Leak Finder (Blue-Point®)

- Use in 12 and 24 V trucks up to Class 8
- 3–43.5 PSI, (69 mbar to 3 bar) output pressure
- Digital pressure selection is quick and the display is easy to view with no difficult analog regulator to adjust
- Convenient wireless RF remote allows the tech to operate from around the vehicle
- Patented UltraTraceUV® non-contaminating dye solution pinpoints leaks smoke cannot alone, with the dye marking the spot after the smoke is gone
- Self-calibrates at every start-up to ensure accuracy
- Microprocessor-controlled single-button touch for all functions
- Smart Technology Software reduces the thinning of smoke density at all pressures
- Auto-drain water separator and filter removes fluid from the shop compressor
- Technical Support: 800-901-1988
- Follows safety standard Division 1, ASME Boiler and Pressure Vessel code (2013 Edition)
- Warning: DO NOT use this tester in the fuel evaporative EVAP system due to its high-pressure capability

### Included Accessory:

EELD600HD-5 110 V AC Power Source, North America

### Optional Accessories:

#### EELD600HD-1 6 pc Turbo Adaptor Set

- Includes EELD600HD-1A–EELD600HD-1F in a carry case

EELD600HD-1A Turbo Adaptor 35, 40, 45 mm

EELD600HD-1B Turbo Adaptor 50, 55, 60 mm

EELD600HD-1C Turbo Adaptor 65, 70, 75 mm

EELD600HD-1D Turbo Adaptor 80, 85, 90 mm

EELD600HD-1E Turbo Adaptor 95, 100, 105 mm

EELD600HD-1F Plug Adaptor

EELD600HD-2 Turbo Adaptor 110, 115, 120 mm

EELD600HD-3 Turbo Adaptor 125, 130, 135 mm

EELD600HD-4 12/24 Battery Cable Assembly

EELD600HD-6 240 V AC Power Source, Europe



## Vacuum Pressure Pump Kits

### YA4000B ‡ Automotive Test Kit (Blue-Point®)

- Produces vacuum or pressure at the turn of a switch
- Used for vacuum and pressure-related engine performance diagnostics and tune-ups; brake bleeding; fluid transfer, evacuation and sampling
- One-finger trigger vacuum/pressure release
- Durable, accurate diaphragm-type vacuum/pressure gauge
- Handheld vacuum/pressure pump with 2" compound gauge and rubber boot
- 12 oz fluid reservoir bottle with fluid transfer and storage lids, plus fluid pick-up tube
- Kit contains multiple accessories as shown, including tapered manifold plugs, vacuum caps and bleed screw adaptors

### SVT270B Vacuum Test Kit

#### • Diagnostic aid for checking operation of vacuum-activated actuator

- Measures vacuum up to 30 Hg with an easy-to-read gauge
- Release valve controls the release of vacuum
- Ergonomic design is durable for everyday use
- Includes hose, cone adaptor, large cone adaptor and cup

- Do not use in environment with explosive vapor
- Use only in well ventilated area
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4



## HANDHELD GAS ANALYZERS



HHGA5C



HHGA5CP



HHGA-8



HHGA-9



HHGA-PRINTER

## Handheld Gas Analyzers

**HHGA5C± Handheld Gas Analyzer (5 Gas)**

- Measures exhaust emissions for CO, CO<sup>2</sup>, O<sub>2</sub>, HC, NO<sub>x</sub> and AFR/Lambda
- Portable handheld 5-gas analyzer for use in the bay or a road test
- For use on gasoline, LPG and CNG vehicles; ideal for emissions pre-compliance testing, vehicle servicing and diagnostic work
- Six-line illuminated display allows the user to view all exhaust emission readings simultaneously
- Provides an instant assessment of an engine vehicle exhaust and catalytic converter
- Great for pre-OBD vehicles, as well as hot rods, muscle cars, collector vehicles and race cars for measuring and adjusting the perfect air/fuel ratio
- Bluetooth®-enabled feature links to ZEUS®, VERUS®, VERUS® PRO, and VERUS® Edge; plus Bluetooth®-enabled PC combines gas analysis with other vehicle data for effective diagnostics “in real time” (set-up is required with the software included via a USB stick; diagnostic tools sold separately)
- See the big picture: Gas analyzer views gas analysis data at the same time as other data, including component tests, scope readings, digital graphing function, scanner results, view, graph, save and recall
- Monitors and reduces vehicle emissions, protects the environment and improves both drivability and fuel efficiency
- Unit is very sensitive and pulls only 1/14 the exhaust volume of competing analyzers, reducing water ingress problems, plus the pumps last longer
- Ability to print results using the optional infrared printer (included with the HHGA5CP kit)
- Service is handled at Crystal Lake Northern Repair for Annual Calibration and O<sub>2</sub> sensor replacement, meeting the required industry standard
- Soft pouch is included

**HHGA5CP± Handheld Gas Analyzer Kit with Printer (5 Gas)****HHGA-11 Filters**

- Filters for HHGA Series Gas Analyzers (5 pk)

**HHGA5C-Z User Manual**

- User manual for the HHGA5C Handheld Gas Analyzer Kit

**HHGA-8 Motorcycle Exhaust Probe**

- Optional motorcycle exhaust probe for HHGA Series gas analyzers

**HHGA-9 5 Gas Exhaust Probe**

- 5 gas exhaust probe for HHGA Series gas analyzers (included with both sets)
- High-temperature stainless steel probe
- Ideal for road testing when measuring NO<sub>x</sub>

**HHGA-CHARGER Printer Charger**

- Printer charger for HHGA-PRINTER

**HHGA-PRINTER Infrared Printer**

- Infrared printer for HHGA Series gas analyzers
- Replacement paper is HHGA-18

**HHGA5B-PB Storage Case**

- Hard-shell storage case included with the HHGA5CP

**HHGA5A-SP Soft Pouch**

- Soft storage pouch included with the HHGA5C



Digital Video Scopes

| Specifications                       | BK3000 †                     | BK5600DUAL85 ‡               | BK6500                       | BK8500 †                                  | BK8500DUAL55                              |
|--------------------------------------|------------------------------|------------------------------|------------------------------|---|---|
| Power Supply                         | (4) AA Batteries             | (6) AA Batteries             | —                            | 3.7 V Li-ion, 2,600 mAh<br>9.6 Wh Battery | 3.7 V Li-ion, 2,600 mAh<br>9.6 Wh Battery |
| Width, inches (mm)                   | 80 mm                        | 175 mm                       | Viewer: 1.77 (45)            | Viewer: 1.77 (45)                         | Viewer: 1.77 (45)                         |
| Length, inches (mm)                  | 147mm                        | 90 mm                        | Viewer: 180 mm               | Viewer: 7.2 (180);<br>Imager: 36 (0.91)   | Viewer: 7.2 (180);<br>Imager: 36 (0.91)   |
| Height, inches (mm)                  | 35mm                         | 42 mm                        | Viewer: 3.94 (100)           | Viewer: 3.94 (100)                        | Viewer: 3.94 (100)                        |
| Resolution (reading display)         | 160 x 240 RGB<br>Backlit LED | 480 x 272 RGB<br>Backlit LED | 480 x 272 RGB<br>Backlit LED | 640 x 480 RGB<br>Backlit LED              | 640 x 480 RGB<br>Backlit LED              |
| Video Out                            | None                         | —                            | NTSC/PAL                     | NTSC/PAL, Wi-Fi Apps                      | NTSC/PAL, Wi-Fi Apps                      |
| Run Time (hours)                     | 4 (Alkaline)                 | 6 hr (Alkaline)              | 4 (Rechargeable)             | 4 (Rechargeable)                          | 4 (Rechargeable)                          |
| Operating Temperature Range, °F (°C) | 30–122                       | 32–140 (0–60)                | 32–140 (0–60)                | 32–140 (0–60)                             | 32–140 (0–60)                             |
| Storage Temperature, °F (°C)         | -4–140 (-20–60)              | -4–140 (-20–60)              | -4–140 (-20–60)              | -4–140 (-20–60)                           | -4–140 (-20–60)                           |
| Field of View, Forward/Side          | 54° diagonal/none            | Approx. 56° diagonal         | Approx. 56° diagonal         | Approx. 56° diagonal                      | Approx. 56° diagonal                      |
| Resolution                           | Imager: 640 x 480            | Imager: 640 x 480            | Imager: 640 x 480            | Imager: 640 x 480                         | Imager: 640 x 480                         |
| Optimal Focal Range                  | 1/2–12" (12–30-1/2 cm)       | 1/2–12" (12–30-1/2 cm)       | 1/2–12" (12–30-1/2 cm)       | 1/2–12" (12–30-1/2 cm)                    | 1/2–12" (12–30-1/2 cm)                    |

**BK5600DUAL55 True Digital Video Inspection Scope**

- Includes the BK8000-55 36" digital imager with 5.5 mm diameter dual-view head
- Same as the BK5600 with a 5.5 mm imager
- Digital still image capture with included SD card
- Touchscreen interface enables easy feature selection
- Two year warranty with Snap-on® Repair Centers

**BK5600DUAL85 Scope with Dual 8.5 mm Imager**

- 4.3" (109 mm) LCD screen for enhanced viewing
- Digital still image capture with included SD card
- Includes 36" digital imager with 8.5 mm diameter head
- Touchscreen interface enables easy feature selection
- Includes 90° glass mirror and magnet retrieval accessories and a storage tray for security
- Two year warranty with Snap-on® Repair Centers

**BK3000† Video Inspection Scope**

- Small, rugged package is designed for comfort and functionality with a vibrant 2.5" LCD screen
- Integrated 8.5 mm high-resolution imager
- Onboard storage of up to 30 images
- Simple and user-friendly five-key switch
- Adaptable functionality through three-step zoom, adjustable brightness and 180° image rotation
- Magnet and mirror accessories with integrated storage
- Powered by AA batteries
- Imager is resistant to dust, dirt and water ingress for 30 minutes at depths of up to 3 meters

**BK6500 Video/Still Recording Digital Borescope**

- 4.3" (109 mm) diagonal LCD screen
- Confirms mechanical problems before disassembly
- Dual-imager lenses: straight ahead and 90° angle
- Imager length: 36" (914 mm)
- Touchscreen interface enables easy feature selection
- Store the digital video image internally or on an SD card
- Rechargeable lithium battery; USB port to transfer data
- Two year warranty with Snap-on® Repair Centers

**BK6500DUAL55 Video/Still Recording Digital Borescope**

- Includes the BK8000-55 36" digital imager with a 5.5 mm diameter dual view head
- 4.3" diagonal LCD screen
- Confirms mechanical problems before disassembly
- Digital still image capture with included SD card storage
- Touchscreen interface enables easy feature selection
- Store the digital video image internally or on an SD card
- Rechargeable lithium battery; USB port to transfer data
- Two year warranty with Snap-on® Repair Centers

**BK8500‡ Advanced Wireless Video Scope**

- Large 5" LCD screen highlights detail
- Four application-specific viewing modes—fine tune optics for the most common technician applications
- iOS® and Android®-compatible
- Windows®-compatible
- Full VGA/all-digital system—provides increased clarity and higher quality images than competitive products
- Ability to capture images and video, add text or audio annotation—enhances the presentation ability
- Analog video-out; connect to large format displays

**BK8500DUAL55 ‡ Advanced Wireless Video Scope with 5.5 Dual View Imager**

- 5" LCD—largest screen on the market helps
- Four application-specific viewing modes
- iOS® and Android® compatible
- Windows® compatible
- Full VGA/all digital system—provides clearer, higher-quality images than competing products
- Capture images and video, add text or audio annotation—enhances the presentation ability
- Analog video-out; connect to large format displays
- 5.5 mm imagers get into much tighter spaces than standard 8.5 mm
- Dual-view cameras: see straight ahead or at a 90° angle
- Close focus provides incredible detail



• Do not use in environment with explosive vapor  
 † These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 ‡ Read safety precautions on pages W1 to W4

**VIDEOSCOPES**



**BK8000-55**



**BK8000-56**



**BK8000-UV**

**BK8000-55 ‡ 5.5 mm Digital Dual View Imager**

- 5.5 mm imagers get into much tighter spaces than standard 8.5 mm
- Dual view digital cameras see straight ahead or at a 90° angle
- No need for an additional mirror attachment
- Close focus provides incredible detail
- Imagers are resistant to all common automotive chemicals

**BK8000-56 ‡ 5.5 mm Digital Dual View Imager**

- 5.5 mm imagers get into much tighter spaces than standard 8.5 mm
- Dual view digital cameras see straight ahead or at a 90° angle
- No need for an additional mirror attachment
- Close focus provides incredible detail

**BK8000-38-6 Cleaning Swabs**

- For Snap-on® videoscopes

**BK8000-UV ‡ 8.5 mm Dual View UV Imager**

- The ultimate aid in leak detection
- Imager camera has a true UV light source that works with fluorescent A/C, evaporative leak detection, heavy oil and penetrant dyes
- Dual view for straight ahead and 90° viewing angles
- 36" imager projects to borescope screen
- Provides reach beyond normal dye detection tools
- For use with either the BK5600, BK6500 or BK8000 videoscopes
- Greatly increases the ability to find the source of vacuum leaks while working with the EELD100A and EELD500 Portable Smart Smoke® Machines
- Used for locating concealed automotive air conditioning system leaks, automotive evaporative and vacuum system leaks and inspecting inside hardened steel parts like hydraulic pistons on aircraft landing gear
- Dual digital CMOS image sensors, 8.5 mm in diameter, mounted on a 90° axis from each other for forward and side view capabilities
- 36" long imager; each sensor has an approximate 54° field of view
- Ultraviolet lighting is provided by a light-emitting diode producing light in the spectrum of 405-410 Nm



**BKIMGD8.5-3M**

**BKIMGD8.5-3M 8.5 mm OD 3 m Long Dual Imager**

- For use with the BK5600, BK6500, BK8000 and BK8500 videoscopes
- 10' imager allows inspections up to 10'
- Dual view imager allows the user to see forward and at a 90° side view, removing the need for additional imagers and mirror attachments
- Imagers are resistant to all common automotive chemicals
- Two year warranty



**BK-IMG-F-38**

**BK-IMG-F-38 ‡ 3.8 mm Forward View Imager**

- For use on the BK5600, BK6500 and BK8000 videoscopes
- Digital sensor technology provides a small package size to access the smallest port sizes
- Forward-view imager allows the user to see the piston's combustion cup
- 3.8 mm outside diameter fits most glow plug ports
- Imagers are resistant to all common automotive chemicals

## Electronic

Quickly pinpoint the source of noise or vibration in underhood, undercar and vehicle interiors. Six selectable channels allow the placement of sensors in various locations to pick up bearing, gear, engine, suspension, drive accessory and wind noises.

### YA6930 Electronic Engine Stethoscope (Blue-Point®)

- Amplifies sound during diagnosis or verification of proper vehicle operation
- Used to pinpoint faulty bearings, injectors, squeaks, rattles and more
- Mode selection switch with LED indicator easily switches between the sound and vibration functions
- Noise cancellation feature eliminates background noise
- Studio-style headphone set with a tangle-free cord
- Detachable flex wand with LED illuminated tip
- Rotary volume control
- Lightweight and balanced with an ergonomic comfort grip



YA6930

## Mechanic's

### GA111D Mechanic's Stethoscope (Blue-Point®)

- Locates any engine sound, such as bearing noise, knocks and squeaks in fan or water pump and valve tappets
- Sound-amplifying diaphragm and a 12" probe locate trouble



GA111D

## Electronic

### YA6910 Mini Electronic Stethoscope (Blue-Point®)

- Convenient diagnostic tool can pinpoint location of noise caused by bad bearings, bushings, dirty fuel injectors, wind and air leaks, noisy valves and lifters
- Allows the user to monitor gears, bearings and suspension components under load so problems can be more accurately diagnosed
- Sensor clamp helps to detect noises during vehicle test drive that cannot be duplicated in the work bay
- Sensor tip mounted on a 6" flexible shaft allows access to hard-to-reach areas
- 5" inductive metal probe allows the user to pinpoint the source of noise or vibration
- Ultra-sensitive microphone provides a full range of sound
- Features a rotary-style adjustable volume control



YA6910

### YA6920 Electronic Marine Stethoscope (Blue-Point®)

- Unique diagnostic listening device is specifically designed to pinpoint squeaks, rattles and other troublesome noises in most marine vessels, and watercraft with inboard or outboard motors
- Tests for noise and harmonic vibration on bearings, underdash areas, control cables, fuel injectors, cabinets and compartments, alternators, switches, pumps, final drives, steering gears, gear cases, steering pumps, hulls and compressors
- 14' long, water-resistant wire loom harness allows user to diagnose hard-to-reach problem areas
- Six spring-loaded, color-coded stainless steel sensor clamps with built-in super-sensitive microphone in the tips for optimal sound detection
- Heavy-duty professional headphones block any unwanted sounds



YA6920



- Do not use in environment with explosive vapor
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## INFRARED THERMOMETERS



CTG861DB



CTG861K1



### CTG861 Series Color Display Infrared Thermometers

MicroLithium: More Power and Flexibility Than Ever Before

- Tough and lightweight for maximum maneuverability and less user fatigue, this family of MicroLithium Cordless Power Tools feature integrated soft-grip handles for the ultimate in comfort and control, while their small size means they fit into tight spaces with ease
- Operating on the CTB8174 14.4 V 2.5 Ah MicroLithium battery, these tools deliver big power in the most restricted areas, both inside the passenger compartment and under the hood, for more power and flexibility than ever before

| Specifications   | CTG861K1  |
|--|---|
| IR Range   | —   |
| IR Resolution  | 1,000 °C/°F; 1 °C/°F  |
| IR Accuracy  | 0–560 °C; ±2% or 2 °C: -18–0 °C: 5 °C 560–1,000 °C ±2% ±3dig                    |
| IR Repeatability (+23 Ems=0.95)                        | ±2% or ±2 °C  |
| K Type Range (Optional)                                | -200–1,300 °C   |
| K Type Accuracy (Optional)                             | 0.5% of Reading ±1 °C   |
| Response Time  | 500 mSec  |
| Spectral Response                                      | 7–14 um   |
| Display Hold   | Last reading and operating mode display for 10 sec nominal upon trigger release |
| Emissivity   | 0.30–0.99 Adjustable  |
| Alarm  | On/Off and High/Low   |
| Record   | Rec/Max/Min   |
| Ambient Operating Temperature, °F (°C)                 | 32–120 (0–50)   |
| Relative Humidity                                      | 10–80% RH non-condensing  |
| Storage Temperature, °F (°C)                           | 14–158 (-10–70) without Battery   |
| Distance To Spot Size                                  | 12:1 (90% energy covered)   |
| Battery Type   | Snap-on® 14.4 Volt  |
| Battery Life after continuous use (Approximate), hours | 35  |
| Tool Only  | CTG861DB  |

CE

#### CTG861K1 14.4 V MicroLithium Color Display Cordless Temperature Gun

- Safe non-contact and contact temp options
- Temperature range: -58–1,832 °F (-50–1,000 °C)
- Records min, max and live readings
- Saturn circle sighting laser pointer
- Adjustable emissivity from 0.3–1.0
- Response time 500 mSec
- Alarm On/Off and Hi/Low
- 35-hour continuous run time
- High-contrast large color LCD display with backlight
- Kit includes tool, charger and (1) battery

#### CTG861DB 14.4 V MicroLithium Color Display Cordless Temperature Gun (Tool Only)



RTEMP8



RTEMPB3A



RTEMPB7

| Specifications          | RTEMP8                           | RTEMPB3A*                                | RTEMPB7*                           |
|-------------------------|----------------------------------|--|------------------------------------|
| Temperature Range       | -60–760 °F<br>(-76–1,400 °C)     | -58–932 °F<br>(-20–500 °C)               | -31–689 °F<br>(-35–365 °C)         |
| Temperature Display     | Selectable for °F or °C          | Selectable for °F or °C                  | Selectable for °F or °C            |
| Response Time           | 1 Second                         | 0.5 Second                               | 1 Second                           |
| Emissivity              | Adjustable, set to 0.95          | 0.98                                     | 0.95 or 0.70 (0.95 default)        |
| Power                   | (2) AAA Batteries                | 9 V Alkaline or Ni-Cad Battery           | (2) AAA Batteries                  |
| Accuracy                | ±1.8 °F (±1 °C)                  | ±2% of reading or<br>±4 °F (±2 °C)       | 2.7 °F (±1.5 °C)                   |
| Distance to Spot Ratio  | 12:1                             | 12:1                                     | —                                  |
| Ambient Operating Range | 32–122 °F (0–50 °C)              | 32–105 °F (0–41 °C)                      | 32–122 °F (0–50 °C)                |
| Description             | Multi-Laser Infrared Thermometer | Infrared Laser Thermometer (Blue-Point®) | Infrared Thermometer (Blue-Point®) |

\*(Blue-Point®)

CE

### RTEMP8 Multi-Laser Infrared Thermometer

- Easy-to-read color screen
- Modes include E, MAX, MIN, DIF, AVG, HAL and LAL
- Distance:Spot = 12:1
- Temperature range: -76-1,400 °F (-60-760 °C)
- Operating range: 32-122 °F (0-50 °C)
- Battery: (2) AAA
- Battery life: minimum of 7 hours of continuous use with laser and 30 hours of continuous use without laser
- Thermometer automatically shuts off if left idle for more than 60 seconds
- Accuracy: ±1.8 °F (±1 °C)

### RTEMPB3A Infrared Laser Thermometer (Blue-Point®)

- Temperature range: -58–932 °F (-20–500 °C)
- Compact size: 5.88 x 3.62 x 1.38" (149.2 x 92.1 x 34.9 mm)
- Laser targeting accuracy
- Enhanced backlit four-digit LCD for easy viewing
- Automatic power-off after 10 seconds
- Nylon holster for transport and safe storage
- Battery: 9 V Alkaline or NiCad
- Operating range: 32–105 °F (0–40 °C)
- Conformity

### RTEMPB7 Infrared Thermometer (Blue-Point®)

- Modes include E, MAX, MIN, DIF and AVG
- Distance:Spot = 12:1
- Temperature range: -31–689 °F (-35–365 °C)
- Operating range: 32–122 °F (0–50 °C)
- Battery: (2) AAA
- Battery life: typically lasts 18 hours; minimum of 14 hours of continuous use

## TACHOMETERS



EEDMTACH1A



EEDMRPM500



EEDMRPMD500



MT257B

## Tachometers

**EEDMTACH1A Digital Contact/Non-Contact Laser Tachometer**

- Ideal for use on fan or serpentine belts, industrial equipment, race cars, marine, motor sports, ATV, big rig engines and more
- Measures RPM on vehicle components and industrial equipment
- Obtains RPM readings up to 25 feet away from its target
- No-contact laser mode works great in tight areas and keeps the user away from moving parts
- Unique pistol grip design fits comfortably in the hand
- Line-of-sight aiming design provides easy-to-read results on the LCD color display—easily read in low or bright sunlight conditions
- Memory recall brings back the last measurement on the display before powering off
- Uses standard 9 V batteries
- Up to 30,000 RPM non-contact

**MTTACH1A1 24 pk Reflective 1/2" Squares**

- Reflective photo tape for the EEDMTACH1 Tachometer

**EEDMRPM500 Digital Tachometer (Gas Engines)**

- Used to digitally read RPM on single cylinder, 2- or 4- stroke gas engines
- Choose between 2- or 4-stroke engines and 1- or 2-spark ignition systems
- Unit provides min/max readings with eight storage locations to save readings for future reference
- 300–10,000 RPM range
- Powered by 9 V battery (included)
- Overall dimensions: 2-3/4 x 5-3/4 x 1"

**EEDMRPMD500 Diesel Engine Adaptor**

- Optional diesel engine adaptor for the EEDMRPM500 Digital Tachometer
- For use on diesel engines only
- 300-6,000 RPM range

**Diesel Pulse Adaptor (Blue-Point®)****MT257B Diesel Pulse Adaptor (Blue-Point®)**

- Tests injector timing or engine RPM on diesel engines equipped with 1/4" or 6 mm external steel fuel injector lines
- Enables use with inductive pick-up timing light to test engine timing
- Not for use on diesels with common rail fuel systems

## SPECIALTY METERS AND SMALL TESTERS



YA76562

**Coil-On-Plug (COP) Ignition Probes (Blue-Point®)****YA76562 Ignition Quick Probe (Blue-Point®)**

- Quickly verifies the firing of a coil-on-plug (COP) ignition coil and spark plug
- Eliminates the need for back probing coil wires and disassembly to test at the coil connector or spark plug
- Variable sensitivity (VS) thumbwheel for greater diagnostic accuracy and expanded application coverage
- Super-bright KV and ARC indicator LEDs





EETL500



EETL5568A



MT125A

## Timing Lights

### EETL500 Digital Tach/Advance Timing Light

- Perfect for hot rod and muscle car enthusiasts
- Clearly view each flash with patented skip circuitry for tachometer readings up to 9,900 RPM, adjust engine RPM
- View, set and adjust ignition advance and retard: 0–90° set base timing, overall advance and view ignition retard
- Measures battery voltage (10–16 V) with quick-references LEDs
- Measure and adjust ignition dwell: 0–180°/1–12 cylinders with points ignitions
- Set ignition timing: works on DIS, conventional and most aftermarket ignition systems without solid core wires
- Measures engine RPM and ignition advance, as well as dwell on older points-type ignition systems
- Patented pivoting head with a xenon strobe and dual LED flashlight makes it easy to get into tight spots and see
- Timing on both 2- and 4-cycle (DIS and conventional) engines, 1–12 cylinders, no adaptors required
- Comes with a hard case for storage and protection
- Full two year warranty
- Patents #D377,622, #4,594,886 and #5,767,681 apply
- Technical Support: 1-877-447-6276

### EETL500-PB Storage Case

- Storage case for EETL500 Timing Light

### EETL500-2 Inductive Pick-up Leads

- Inductive pick-up leads for the EETL500 Timing Light

### EETL5568A Digital Timing Light (Blue-Point®)

- Multifunction timing light works on all distributorless and conventional ignition systems
- Patented skip circuitry tests tachometer readings up to 9,900 RPM
- View, set and adjust ignition advance and retard: 0–90°
- Measure and adjust ignition dwell: 0–180°/2–12 cylinders
- Measure battery and charging voltage: 10–16 V
- Dual display backlit screen allows clear viewing of the tachometer and ignition advance reading

### EETL5568-PB Storage Case (Blue-Point®)

- Storage case for EETL5568 Timing Light

### MT125A Self-Powered Timing Light (Blue-Point®)

- Self-powered timing light features a single 6' inductive pick-up
- Quick attachment to spark plug wires on motorcycles, marine motors, snowmobiles, jet skis, small engines and other equipment that do not have easy access to a battery power source
- Can be used for automotive applications
- On/Off switch is located within thumb's reach
- Maximum 2,000 RPM

## MEMORY SAVERS

### Computer Memory Savers

#### EECS5MEM ‡ 5' OBD-II Memory Cord (Blue-Point®)

- Turns any jump starter with a 12 V power port into a memory saver
- Acts as an interface connector between a jump starter and a vehicle's OBD-II port
- Prevents electronic memory loss when disconnecting a vehicle's battery

#### YA960 Computer Memory Saver (Blue-Point®)

- Prevents memory loss on digital radios, clocks, door locks and computers when disconnecting a vehicle battery
- Plugs into cigarette lighter socket
- Uses a 9 V battery to keep "memories" alive for up to four continuous hours



EECS5MEM

YA960

#### EEJP201MBK ‡ 12 V Li-Ion Compact Engine Starter/USB Charger and Light

- Ideal for personal-use emergency jumps yet powerful enough for the shop
- For use on power sport, motorcycle and 4- to 8-cylinder autos
- Safer starting via reverse polarity, thermal runaway and short-circuit protection
- Able to start vehicles below freezing
- On-screen commands guide the user
- Bright LED work light or flashing SOS
- Charge internal battery with AC from a wall or DC from a vehicle
- Includes safety override for vehicle batteries with less than 1.5 V
- Memory-saver capable with optional OBD-II cable, EEJP200M-4 provides 12 V power to the vehicle saving settings, such as radio, seat position, DTCs keyless entry and more



EEJP201MBK

EEJP201MBK shown with optional OBD2 cable EEJP200M-4



- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## ELECTRICAL/TERMINAL TOOLS



FZ4B

### Fuse Tools (Blue-Point®)

#### FZ4B Fuse Tong (Blue-Point®)

- Delrin® tongs pull fuses up to 15/16" in diameter
- 1/8" hook on the handle pulls short fuses
- Tongs have high insulating qualities and are resistant to oil, water and heat up to 300 °F
- Hand stops prevent slipping



FZ7A

#### FZ7A Fuse Tong (Blue-Point®)

- Nylon tongs remove auto high-tension wires and pull cartridge fuses from 15/16–1" in diameter
- Hooks on the handles and jaws
- Tongs have high insulating qualities and are resistant to oil, water and heat up to 300 °F
- Hand stops prevent slipping



YA9811

#### YA9811 Relay/Fuse Pliers (Blue-Point®)

- Removes/installs relays and fusible links
- Designed to reach into confined access areas
- Slip joint design enables use for a variety of sizes
- Coated pliers tips securely grips corner of relay or fusible link
- Black industrial finish with red cushioned grip handles
- 8" in length



GMSTB25

### GM® Multifunction Switch Tool

#### GMSTB25 † Multifunction Switch Tool for GM® vehicles

- Reduces the time it takes to replace the multifunction switch (turn signal/dimmer/windshield wiper) without removing the airbag, steering wheel and clock spring
- Includes a low-profile 1/4" magnetic bit wrench with a T25 Ball TORX® bit that allows better control and access in restricted areas
- Reversible ratcheting action
- Heat treated for strength and durability
- Chrome plated for great appearance and wear resistance



YAGM1

### Service Light/Airbag Resetting Tool

#### YAGM1 Air Bag Release Tool (Blue-Point®)

- Tool will quickly and easily release the retention springs for the removal of the SIR module on certain late-model GM® vehicles
- Applications include Cadillac®, Buick® Park Avenue, Pontiac® Grand Am®, minivans and trucks



WINS12FS



WINS240R



WINS100R



WINS1R



WINS24FS

### Wire Insertion Tools

#### WINS100R\* Wire Insertion Tool Set

- Prevents damage to electrical sheathing
- Helps the technician feed or pull wire around a number of obstacles, or against pieces of metal
- Safeguards against damage to plastic sheathing that can result in an intermittent or non-functioning condition
- Provides flexibility/adaptability; set allows technician to adapt to each application through the use of different lengths and diameters of tubes
- Ideal for use with Snap-on® videoscopes; protects investment by using this tool to direct/protect the expensive fiber optic element during use
- Tubes thread into metal threaded insert within the handle, providing strong connection
- Tube angular orientation prevents the wires from "dead-heading" against an object, and getting stuck or damaged

#### WINS1R\* Wire Insertion Tool Hard Handle

- Handle is interchangeable with WINS100 and WINS240 series straight tube shafts

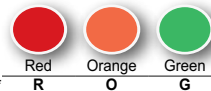
#### WINS240R 3 pc Flexible Wire Insertion Tool Kit

- Flexible shafts allow the user to install/remove wires around obstacles
- Prevents damage to delicate wire sheathing
- Handle is interchangeable with the WINS100 Series straight tube shafts
- 4.5 mm shaft diameter shaft has the ability to hold a tight radius
- Includes a storage tray

#### WINS12FS 12" Wire Insertion Flexible Shaft

#### WINS24FS 24" Wire Insertion Flexible Shaft

Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Terminal Tools

### YA13120 Electrical Connector Separator (Blue-Point®)

- Disconnects electrical connectors without damage
- Double ended to fit different access angles
- Simply engage the tool tip behind the connector clip, and push or pull to disconnect
- Works on Weather Pack and other automotive electrical connectors



YA13120

### GA500A Wire Terminal Tool (Blue-Point®)

- Prongs depress the barbs on conventional terminals



GA500A

### YA500GM Wire Terminal Tool (Blue-Point®)

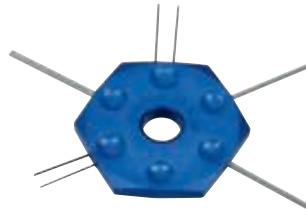
- Designed for use for Pack-Con and Weather Pack terminals on GM® C3 systems



YA500GM

### YA500F Terminal Tool for Ford® Vehicles (Blue-Point®)

- For use on Ford® terminals



YA500F

### TT3KT Terminal Tool Set (Blue-Point®)

- Comprehensive set covers the majority of today's popular terminals
- Includes GA500A, YA500GM, YA500F and TT3-1 handles that slip over probes to protect the technician's hands and provides extra leverage



TT600

### TT600 6 pc Terminal Tool Kit

- Includes (6) tools for removing terminals from the harness blocks: pin vise, square probe, wedge probe, tube probe, flat probe and hook probe
- Includes a vinyl pouch

### TT12KT C3/Wire Terminal Tool Kit for GM® Vehicles (Blue-Point®)

- Applications include most GM® and other US computer connectors and terminals
- Individual handles for easy access in tight places
- Designed for Pack-Con and Weather Pack terminals with a flat blade to open connectors and a fork for ALDL connectors to access trouble codes
- Color coded: red handle for GM® and green for wire terminal tools
- Kit includes these GM® C3 system terminal tools: 3.3 x 28 mm terminal tool, 1.4 x 28 mm square terminal tool, 1.5 x 24.75 mm flat terminal tool, 2 x 22 mm flat terminal tool, 8 x 24 mm fork terminal tool, 3/16 x 1" flat screwdriver, 3.3 x 28 mm tube terminal tool, 4.3 x 13 mm tube terminal tool, 3.75 x 13 mm tube terminal tool, 3 x 13 mm tube terminal, 3 mm flat 2-blade terminal tool and 1.6 mm flat 2-blade terminal tool
- Includes a storage case



TT12KT

### TT1201 Terminal Tool

- 3.3 x 28 mm
- Red handle

### TT1202 Square Terminal Tool

- 1.4 x 28 mm
- Red handle

### TT1203 Flat Terminal Tool

- 1.5 x 24.75 mm
- Red handle

### TT1204 Flat Terminal Tool

- 2 x 22 mm
- Red handle

### TT1205 Fork Terminal Tool

- 8 x 24 mm
- Red handle

### TT1206 Flat Tip Screwdriver

- 3/16 x 1"
- Red handle

### TT1207 Tube Terminal Tool

- 3.3 x 28 mm
- Green handle

### TT1208 Tube Terminal Tool

- 4.3 x 13 mm
- Green handle

### TT1209 Tube Terminal Tool

- 3.75 x 13 mm
- Green handle

### TT1210 Tube Terminal Tool

- 3 x 13 mm
- Green handle

### TT1211 Flat Two-Blade Terminal Tool

- 3 mm
- Green handle

### TT1212 Flat Two-Blade Terminal Tool

- 1.6 mm
- Green handle

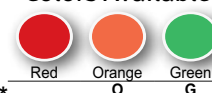
### TT1213 Storage Case

- For TT12KT C3/Wire Terminal Tool Kit

### SGDTT106\* 6 pc Deutsch Terminal Tool Kit

- Stainless steel design prevents the tool from breaking or bending
  - Six differently sized tools cover the entire spectrum of sizes from 20–4
  - Designed to be long enough to reach the retaining tabs without removing the seal
- SGDTT20\* Size 20 Deutsch Terminal Tool**  
**SGDTT16\* Size 16 Deutsch Terminal Tool**  
**SGDTT14\* Size 14 Deutsch Terminal Tool**  
**SGDTT12\* Size 12 Deutsch Terminal Tool**  
**SGDTT8\* Size 8 Deutsch Terminal Tool**  
**SGDTT4\* Size 4 Deutsch Terminal Tool**

Colors Available



\*

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Plastic coated handle does not protect against electric shock
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## ELECTRICAL/TERMINAL TOOLS



SGTT110

**Soft Grip Terminal Tools**

Easily remove terminals from electrical connectors found on mid-1990s and later US and import vehicles. Terminal tools incorporate a stainless steel design with ergonomic soft grip handles.

**SGTT1A Soft Grip Terminal Tool**

- Use on PCM and transmission harnesses found on Chrysler®, Hyundai®, Kia® and Mitsubishi® vehicles
- 4-13/16" long

**SGTT2A Soft Grip Terminal Tool**

- Provides a robust narrow-width blade with a fulcrum for easier access to the release tabs found on newer terminal blocks

**SGTT3A Soft Grip Terminal Tool**

- For use on underhood sensors, such as coolant temperature and throttle position sensors
- For use on Ford®, GM® (including Cadillac®), Chrysler®, Mitsubishi® and Hyundai® vehicles
- 4-13/16" long

**SGTT4A Soft Grip Terminal Tool**

- Easily removes terminals from electrical connectors found on mid-1990's and later US and import vehicles
- Used for cutting open wire harnesses for easy access to troubleshooting and replacement applications
- Easily slits harness sheathing without piercing the wires inside
- 4-3/8" long

**SGTT5A Soft Grip Terminal Tool**

- For use on 55-pin ABS ECUs found on Ford®, GM®, Jaguar®, Jeep®, Volvo®, VW®, BMW®, Hyundai®, Kia® and Mercedes® vehicles
- 4-13/16" long

**SGTT6A Soft Grip Terminal Tool**

- For use on 35-pin ABS ECUs found on Audi®, BMW®, Chrysler®, Ford®, GM®, Infiniti®, Isuzu®, Jaguar®, Mazda®, Mercedes-Benz®, Mitsubishi®, Nissan®, Porsche®, Subaru®, Saab®, Volvo® and VW® vehicles
- 4-13/16" long

**SGTT7 Soft Grip Terminal Tool**

- Applications include Powertrain Control Modules (PCM) on Acura®, Audi®, Chrysler®, Ford®, Hyundai®, Jaguar®, Kia®, Mercedes-Benz®, Mazda®, Toyota® and Volkswagen® vehicles
- 4-27/32" long

**SGTT8 Soft Grip Terminal Tool**

- Applications include Powertrain Control Modules (PCM) on Acura®, Audi®, Buick®, Chrysler®, Ford®, GM®, Honda®, Jaguar®, Mercedes-Benz®, Mazda®, Toyota® and Volkswagen® vehicles
- 4-27/32" long

**SGTT9 Soft Grip Terminal Tool**

- Applications include Powertrain Control Modules (PCM) on Acura®, Audi®, Chrysler®, Jaguar®, Hyundai®, Kia®, Mercedes-Benz®, Toyota® and Volkswagen® vehicles
- 4-27/32" long

**SGTT10 Soft Grip Terminal Tool**

- Applications include open connector clips and sides of clips on Acura®, Audi®, Chrysler®, Honda®, Mercedes-Benz® and Volkswagen®
- 4-27/32" long

**SGTT106A 6 pc Soft Grip Terminal Tool Set**

- Includes (6) soft grip terminal tools
- Includes a storage tray

**SGTT110 10 pc Soft Grip Terminal Tool Set**

- Includes (10) terminal tools
- Includes a storage tray

# FUEL AND ENGINE SYSTEMS: COMPRESSION GAUGE SETS AND ADAPTORS

## Pressure Gauge Sets

### EEPV700-KIT 500 PSI Wireless Pressure Tester Add-On Kit

- Tests compression, vacuum, fuel, engine oil or transmission fluid pressure up to 500 PSI maximum
- View the pressure and vacuum measurement results that transmit wirelessly to a Bluetooth®-enabled Android™ or Apple® device (sold separately), or on the tool's display
- Record readings to the device during a road test, view the results back in the shop
- Min/Max readings are graphed to aid in diagnosing the problem
- Stores 1–12 cylinder readings, no writing required
- Stores the results by customer, vehicle, license plate, date, technician and more
- Share the results via shop email, text or social media—include with vehicle owner's invoice
- Convenient magnet for easy mounting
- Follow these steps:
  1. Get free app
  2. Use included EEPV7 accessory to select and connect
  3. Select optional EEPV5 or EEFI5 adaptors
  4. Connect to engine
  5. Sync to remote device
  6. Take readings and diagnose
  7. Store and share results



(For use with the EEFI or EEPV vehicle specific adaptors sold separately or already owned)

## Included Accessories

- EEPV700-1 Compression Test Adaptor
- EEPV700-2 Fuel Pressure Test Adaptor
- EEPV700-3 Oil Pressure Test Adaptor
- EEPV700-4 Transmission Pressure Test Adaptor
- EEPV700-5 Vacuum Test Adaptor
- EEPV700-CC Storage Case
- EEPV700-Z User Manual (6 Language)



EEPV5F-ALL

## Optional Accessories

### EEPV5F-ALL Engine/Transmission Adaptors Use with EEPV700

- For customers who do not own EEPV507 or EEPV508

### EEFI5-ALL Fuel Adaptors Use with EEPV700

- For customers who do not own the EEFI500A

### EEPV5V-ALL Vacuum Fittings Use with EEPV700

- For customers who do not own EEPV511



EEPV500



EEPV503



EEPV600



EEPV5V-ALL

## Compression Gauge Sets

- Intended for use on spark-ignited gasoline engines that do not exceed 300 PSI compression
- Uses hose adaptors that thread into the spark plug hole and connect at the gauge hose's quick coupler
- Maintains highest compression test reading and resets to zero with a push-button release valve

### EEPV500 ‡ Automotive Compression Test Set

- Tests cars and trucks with hard-to-access spark plug ports
- Gauge assembly includes a 2-3/4" dia. gauge and 27" flexible hose with a quick coupler
- Includes EEPV5G12L, EEPV5G14L and EEPV5G14S

### EEPV503 ‡ Motorcycle Compression Gauge Set

- Tests motorcycles and recreational vehicles with hard-to-access spark plug ports
- Gauge assembly includes a 2-3/4" dia. gauge and 18" flexible hose with a quick coupler
- Includes EEPV5G10L, EEPV5G12L and EEPV5G14L

- Gauge displays individual cylinder pressure
- Test range: 0–300 PSI (0–2,000 kPa) in 10 PSI (50 kPa) increments
- Detect piston ring, intake/exhaust valve, head gasket or other engine issues

### EEPV600 ‡ Compression Gauge Set

- Simplifies compression testing on engines with deep spark plug wells
- Knurled end allows hand tightening to aid against over-torquing or cross-threading
- Gauge can be connected to the included hose assembly for extra reach
- 300 PSI (2100 kPa) superior accuracy gauge with pressure release button
- Includes: EEPV6G12L and EEPV6G14L



- Do not expose gasoline or fuel to flames or other sources of ignition
- Use only in well ventilated area
- Plastic coated handle does not protect against electric shock
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## FUEL AND ENGINE SYSTEMS: COMPRESSION GAUGE SETS AND ADAPTORS



### Compression Gauge Adaptors

- Detects piston ring, intake/exhaust valve, head gasket or other engine issues
- 10-1/4" overall length unless otherwise noted
- For EEPV6 adaptors: Simply connect the hose coupler and gauge of the customer's existing EEPV500 or EEPV600 (EEPV500 and EEPV600 sold separately)

#### EEPV5G10L ‡ Compression Gauge Adaptor

- Long reach (M10 x 1.0 pitch)
- Thread length: .70"

#### EEPV5G10S ‡ Compression Gauge Adaptor

- Standard reach (M10 x 1.0 pitch)
- Thread length: .43"

#### EEPV5G12L ‡ Compression Gauge Adaptor

- Long reach (M12 x 1.25 pitch)
- Thread length: .68"

#### EEPV5G12T ‡ Compression Gauge Adaptor

- Ford® Triton® engines 2008 and later
- Mercedes-Benz® (most V6 and some V8 models newer than 2006), Nissan® (2.5 L 2008 and later) and Toyota® Scion® (1.8 L 2008 and later) vehicles
- 18" length
- Thread length: .71"

#### EEPV6G12L ‡ Long Reach Chrome Adaptor

- M12 x 1.25 pitch

#### EEPV5G14L ‡ Compression Gauge Adaptor

- Long reach (M14 x 1.25 pitch)
- Thread length: .73"

#### EEPV5G14S ‡ Compression Gauge Adaptor

- Standard reach (M14 x 1.25 pitch)
- Thread length: .36"

#### EEPV6G14L ‡ Long Reach Chrome Adaptor

- M14 x 1.25 pitch

#### EEPV6G14S ‡ Standard Reach Chrome Adaptor

- M14 x 1.25 pitch

#### EEPV5G16T ‡ Compression Gauge Adaptor

- Long reach (M16 x 1.5 pitch) for Ford® 5.4 L Triton® engines
- 18" length

#### EEPV6G16L ‡ Long Reach Chrome Adaptor

- M16 x 1.25 pitch

#### EEPV5G18S ‡ Compression Gauge Adaptor

- Standard reach (M18 x 1.5 pitch)
- Thread length: .44"

#### EEPV6G3PK ‡ 3 pc Chrome Compression Adaptor Set

- Set includes EEPV6G12L, EEPV6G14L and EEPV6G14S (3 pc)
- For use with EEPV500 and EEPV503 compression gauge sets
- Simplifies testing of compression on engines with deep spark plug wells
- Knurled end allows hand tightening to aid against over-torquing and cross-threading

#### EEPV6G1822 M18 X 1.5 Thread Compression Adaptor

- For use with EEPV6-300G gauge and EEPV600H (sold separately)
- M18 x 1.50 pitch
- 22" overall length for long reach applications



EEPV6G1822



MT27D

### Cone-Type Compression Gauge

#### MT27D Cone-Type Compression Gauge

- Range from 0–300 PSI and 0–2,100 kPa
- Cone seal is held firmly over plug hole, unit does not thread in
- Ideal for small gasoline engines, motorcycles, ATVs and snowmobiles

## Diesel Compression Gauge

### EEPD500 ‡ Diesel Compression Gauge

- Range from 9–800 PSI and 0–5,500 kPa
- Includes 18" hose with release valve

### EEPD501 ‡ Diesel Compression Test Kit

- Includes adaptors to test Power Stroke®, Cummins®, Duramax®, Mercedes®, Isuzu® and Mitsubishi® light-duty diesel engines
- Includes 800 PSI gauge and diesel compression adaptors for glow plug and injector applications
- Packed in blow-molded case that has additional slots for future expansion and fits in 4" drawer



EEPD500



EEPD501



EEPV313C



M3540C



M3542C



M3543C



M3571C



M3572C



M3574C



M3585C

## Compression Adaptors/Injector Style

### EEPV313C ‡ Diesel Compression Gauge Adaptor

- For 1998–2002 Dodge® 24-valve 5.9 L Cummins®, plus 5.9 L Cummins® ISB and ISBE diesel engines

### M3540C ‡ Compression Adaptor

- For Cummins® 855 in<sup>3</sup> NH, and 903 V8 and L10 diesel engines

### M3542C ‡ Diesel Compression Gauge Adaptor

- For Volkswagen®, Mercedes-Benz®, Volvo® and Audi® 5000 diesel engines
- M24 x 2.0 pitch

### M3543C ‡ Diesel Compression Gauge Adaptor

- For Detroit® 53, 71, 92 and 8.2 L diesel engines

### M3571C ‡ Diesel Compression Gauge Adaptor

- For 21 mm injectors and Bosch®-type injectors on the following diesel engines: Allis-Chalmers® 433, 649 and 670; Allis/Fiat® 3-cylinder; John Deere® 404, 466, 531 and 619; Navistar® 361 and 407; Perkins® 4.203, 4.236, 4.248, 6.354 and 8.540; Wisconsin Engine® 340, 350, 430, 660, 670, 750, 860 and 1000; White Engine® D2000, D2300, D3000, D3400, and D4800; Mack® 673, 674, 675, 864, 865 and 866; Waukesha® diesel engines; Ford® tractor diesel engines; Scania® DN11 and DS11

### M3572C ‡ Diesel Compression Gauge Adaptor

- For pencil-type injectors on the following: Caterpillar® 3208 and 1100 Series; Case® 70 Series 188 and 207; John Deere® early 300, 400 and 500 Series; 276, 404 and 531 diesel engines

### M3574C Diesel Compression Gauge Adaptor

- For 17 mm injectors on Navistar® DT466 and 9 L, 312, 360, 414, 436 and 446 diesel engines

### M3584C ‡ Compression Adaptor

- For Case®/Cummins® Series B 2.9, 3.9 and 5.9 L diesel engines

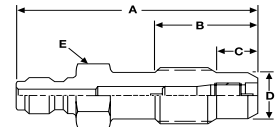
### M3585C Compression Adaptor

- For Case®/Cummins® Series C 8.3 L engines



- Do not expose gasoline or fuel to flames or other sources of ignition
- Use only in well ventilated area
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## FUEL AND ENGINE SYSTEMS: DIESEL COMPRESSION



### Compression Adaptors/Glow Plug-Style

- All “M” series glow plug-style adaptors plus the EEPV312C or EEPV312D adaptor require the use of either the M3569A or M3570A quick coupler

#### EEPV312C ‡ Glow Plug Compression Adaptor

- Duramax® 6600, 2001–2005

#### EEPV312D ‡ Glow Plug Compression Adaptor

- For Duramax® 6600, 2006 and newer

#### EEPV314C ‡ Glow Plug Compression Adaptor

- For Ford® Power Stroke®/Navistar® 7.3 L and VW® TDI 1.9® diesel engines

#### EEPV317C ‡ Glow Plug Compression Adaptor

- For Ford® Power Stroke® 6.0 L and Navistar®/International 6.0 LVT365E engines

#### EEPV318C ‡ Glow Plug Compression Adaptor

- For Power Stroke® engines
- Applicable to Mercedes-Benz® BlueTEC models, 2007–2016

#### M3545C ‡ Glow Plug Compression Adaptor

- For Ford®/International 6.9/7.3 L, Mercedes-Benz® E320 and Westerbeke® Marine engines

#### M3564C ‡ Glow Plug Compression Adaptor

- For GM® 6.2 L and 6.5 L diesel; Hummer® H1; Jeep® Liberty 2.8 L; and Mercedes-Benz®, Freightliner®, and Dodge® Sprinter 2.7 L engines

#### M3565C ‡ Glow Plug Compression Adaptor

- For Toyota® 1.8 L; Isuzu® 1.8 and 2.2 L diesel engines; and 4HE1, 6HE1 and HK1

#### M3566C ‡ Glow Plug Compression Adaptor

- For Toyota® and Nissan® 2.2 L diesel engines, plus Mitsubishi® 2- and 3-cylinder engines; CAT® 3022, 3023, 3024 and 3034; Ford®/Mazda® 2.0 and 2.2 L; Ford®/Mitsubishi® 2.3 L; Kawasaki® Mule 3010; Kubota® D650 and D1100; Mazda® B2200 2.2 and 2.0 L; Mitsubishi®/Fuso and Nissan® engines

#### M3576C ‡ Glow Plug Compression Adaptor

- For BMW® 2.4 L engines used in 1984 and 1985 Lincoln®, Mark VII and Continental models; Peugeot® 1978–1984, 2.0 L and 2.3 L engines; and VW®, Audi®, and Volvo® 1.5 L, 1.6 L, 2.0 L and 2.6 L engines

#### M3569A ‡ Quick Coupler

- 45° offset

#### M3570A ‡ Quick Coupler

- 90° offset

| Stock No.  | Thread     | A inch (mm)    | B Inch (mm)  | C inch (mm)   | D Inch (mm)  | E (hex) |
|------------|------------|----------------|--------------|---------------|--------------|---------|
| EEPV312C ‡ | M10 x 1.25 | 4.125 (104.78) | 3.00 (76.20) | 2.50 (63.50)  | 0.32 (8.13)  | 12 mm   |
| EEPV312D ‡ | M10 x 1.25 | 3.57 (90.7)    | 1.00 (25.4)  | 0.25 (6.35)   | 0.32 (8.13)  | 1/2"    |
| EEPV314C ‡ | M10 x 1.0  | 10.38 (263.6)  | 0.9 (22.9)   | 0.375 (9.5)   | 0.325 (8.25) | 1/2"    |
| EEPV317C ‡ | M14 x 1.25 | 10.1 (256.5)   | 0.625 (15.9) | 0.25 (6.35)   | 0.318 (8.1)  | 5/8"    |
| EEPV318C ‡ | M8 x 1.00  | 10.2 (259.1)   | 0.771 (19.6) | 0.283 (7.2)   | 0.26 (6.6)   | 7/16"   |
| M3545C ‡   | M10 x 1.0  | 1.75 (44.5)    | 0.99 (25.1)  | 0.38 (9.65)   | 0.325 (8.25) | 7/16"   |
| M3564C ‡   | M10 x 1.0  | 2.5 (63.5)     | 0.782 (19.9) | 0.314 (8.0)   | 0.313 (7.95) | 7/16"   |
| M3565C ‡   | M10 x 1.0  | 2.56 (65)      | 1.48 (37.6)  | 0.884 (22.45) | 0.313 (7.95) | 7/16"   |
| M3566C ‡   | M10 x 1.25 | 2.00 (50.8)    | 1.157 (29.4) | 0.407 (10.3)  | 0.313 (7.95) | 7/16"   |
| M3576C ‡   | M12 x 1.25 | 2.344 (59.5)   | 0.74 (18.8)  | 0.31 (7.9)    | 0.392 (9.95) | 1/2"    |



# FUEL AND ENGINE SYSTEMS: CYLINDER LEAKAGE, VACUUM, PRESSURE

## Engine Vacuum Pressure Gauge Set

### EEPV511 † Vacuum and Fuel Pump Tester

- Used for almost all basic vacuum pressure testing needs in the shop
- Performs engine vacuum tests on gasoline engines, as well as exhaust back pressure tests on applications with an oxygen sensor
- Tests vacuum accessories and emission control devices such as EGR valves canister purge systems, air switching and divert valves, vacuum delay and check valves, heater and A/C controls, and cruise control systems
- Multicolor gauge face with SAE, Hg, PSI, negative kPa and positive kPa



EEPV511

### EEPV5V-ALL Vacuum Fittings Use with EEPV700

- For customers who do not own EEPV511



EEPV5V-ALL

### EEPV511-H 4' Silicone Hose

### EEPV511-1 M12/M18 Oxygen Sensor Adaptor

### EEPV511-2 Oxygen Sensor Adaptor Flange Gasket

### EEPV511-3 Tapered Vacuum Fitting

## Cylinder Leakage Tester

### EEPV509 † Cylinder Leakage Tester

- Pressure gauge displays input air pressure for proper cylinder leakage test set-up and provides accurate results
- Pressure gauge range is 0–100 PSI (0–700 kPa) in 2 PSI (20 kPa) increments
- Cylinder leakage gauge displays leakage as a percentage of input pressure in one of three distinctive zones: high, moderate or low



EEPV509

## Pressure Gauge Sets

### EEPV508 † Automatic Transmission and Engine Pressure Set

- Includes (2) gauge assemblies for high-pressure (500 PSI) and low-pressure (100 PSI) ranges, adaptors to test a wide variety of automatic transmissions, a comprehensive instruction manual with an applications table and a storage case
- (4) special fittings are also included for connection to hard-to-reach test ports in areas requiring a 45° or 90° angle
- 10' flexible hose with fluid coupler



EEPV508

## Transmission and Engine Pressure Guide

| Stock No.    | Description                                | Set Contains: |           |              |
|--------------|--|---------------|-----------|--------------|
|              |  | EEPV508 †     | EEPV507 † | EEPV5F-ALL † |
| EEPV5F-0 †   | Male Quick-Connect Plug                    | •             | •         | •            |
| EEPV5F-1 †   | 2" Pipe Nipple                             | •             | •         | •            |
| EEPV5F-2 †   | 1/4" M x 1/8" F Hex Bushing                | •             | •         | •            |
| EEPV5F-3 †   | 3/8" M x 1/8" F Hex Bushing                | •             | •         | •            |
| EEPV5F-4 †   | 1/8" FNPT Coupling                         | •             | •         | •            |
| EEPV5F-5 †   | 1/8" M x 1/8" F Street Elbow               | •             | •         | •            |
| EEPV5F-6 †   | 1/8"-28 BSPT                               | •             | •         | •            |
| EEPV5F-7 †   | M10 x 1.0 Tapered Thread                   | •             | •         | •            |
| EEPV5F-8 †   | M10 x 1.0 Adaptor                          | •             | •         | •            |
| EEPV5F-9 †   | M10 x 1.25 Adaptor                         | •             | •         | •            |
| EEPV5F-10 †  | M12 x 1.5 Adaptor                          | •             | •         | •            |
| EEPV5F-11 †  | M12 x 1.75 Adaptor                         | •             | •         | •            |
| EEPV5F-12 †  | M14 x 1.5 Adaptor                          | •             | •         | •            |
| EEPV5F-13 †  | M16 x 1.5 Adaptor                          | •             | •         | •            |
| EEPV5F-14 †  | M18 x 1.5 Adaptor                          | •             | •         | •            |
| EEPV5F-15 †  | 5/16"-24 Adaptor                           | •             | •         | •            |
| EEPV5F-16 †  | 7/16"-20 Adaptor                           | •             | •         | •            |
| EEPV5F-17 †  | 1/16"-27 Adaptor                           | •             | •         | •            |
| EEPV5F-18 †  | M8 x 1.0 Tapered Thread                    | •             | •         | •            |
| EEPV5F-19 †  | M8 x 1.0 Adaptor                           | •             | •         | •            |
| EEPV5F-20 †  | M8 x 1.25 Adaptor                          | •             | •         | •            |
| EEPV5F-21 †  | M16 x 2.0 Adaptor                          | •             | •         | •            |
| EEPV5-100G † | Pressure Gauge and Boot Assembly (100 PSI) | •             | •         |              |
| EEPV5-500G † | Gauge and Boot (500 PSI)                   | •             |           |              |
| EEPV507-H †  | 6' Hose Assembly                           |               | •         |              |
| EEPV508-H †  | 10' High-Pressure Hose Assembly            | •             |           |              |



EEPV507

### EEPV507 † Engine Oil Pressure Set

- Used on diesel and gasoline engines
- Includes SAE and metric adaptors for cars, trucks, tractors and stationary engines
- Includes a 0–100 PSI (0–700 kPa) gauge assembly



EEPV5F-ALL

### EEPV5F-ALL Engine/Transmission Adaptors Use with EEPV700

- For customers who do not own EEPV507 or EEPV508



- Do not expose gasoline or fuel to flames or other sources of ignition
- Use only in well ventilated area
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## FUEL AND ENGINE SYSTEMS: FUEL INJECTION



### EEFI Series Adaptor Sets

Set Contains:  
 EEFI500A ‡  
 EEFI500ACORE ‡  
 EEFI5-ALL ‡

| Stock No.     | Description   | EEFI500A ‡ | EEFI500ACORE ‡ | EEFI5-ALL ‡ |
|---------------|---|------------|----------------|-------------|
| EEFI5001A ‡   | Gauge and Hose Assembly with Bleed Off Valve  | •          | •              |             |
| EEFI5002 ‡    | Standard Schrader Hose Assembly: Chrysler®, GM®, M-B®, Porsche®, Saab®, Saturn® vehicles  | •          | •              | •           |
| EEFI5001AP1 ‡ | Gauge and Boot (only)   |            |                |             |
| EEFI5003 ‡    | Small Schrader Hose Assembly: BMW®, Ford®, Jaguar®, Kia®, Lincoln®, Mazda®, Mercury®, Mini®, Volvo®, VW® vehicles                       | •          | •              | •           |
| EEFI5004 ‡    | Standard Schrader Right Angle Adaptor: Chrysler®, GM®, Mercedes-Benz®, Porsche®, Saab®, Saturn® vehicles                                | •          | •              | •           |
| EEFI5005 ‡    | Small Schrader Right Angle Adaptor: BMW®, Ford®, Jaguar®, Kia®, Lincoln®, Mazda®, Mercury®, Mini®, VW®, Volvo® vehicles                 | •          | •              | •           |
| EEFI5006 ‡    | Tee Adaptor with 1/4, 5/16 and 3/8" diameter hoses and clamps: Chrysler®, Infiniti®, Isuzu®, Mazda®, Nissan®, Subaru®, Suzuki® vehicles | •          | •              | •           |
| EEFI5006-1 ‡  | Replacement Hoses and Clamps  | •          | •              | •           |
| EEFI5007 ‡    | Spare Parts Service Kit for 5001-5006   | •          | •              | •           |
| EEFI5008 ‡    | Tee Hose Assembly: 3/8" Quick-Connect   | •          | •              | •           |
| EEFI5009 ‡    | 3/8" Quick-Connect Double Male: GM® vehicles  | •          | •              | •           |
| EEFI50010 ‡   | 5/8" Spring Lock Male: Ford®, Mazda® vehicles   | •          | •              | •           |
| EEFI50011 ‡   | 5/8" Spring Lock Female: Ford®, Mazda® vehicles   | •          | •              | •           |
| EEFI50012 ‡   | 5/16" Quick Connect Male: Acura®, Chrysler®, Ford®, Mazda®, Toyota® vehicles  | •          | •              | •           |
| EEFI50013 ‡   | 5/16" Quick Connect Female: Acura®, Chrysler®, Ford®, Mazda®, Toyota® vehicles  | •          | •              | •           |
| EEFI50013-L ‡ | 5/16" 90° Quick-Connect Female: Chrysler®, Fiat®, Jeep®, VW®  | •          | •              | •           |
| EEFI50014 ‡   | 5/16" Male Hose Adaptor: BMW®, Chrysler®, Infiniti®, Nissan®, VW® vehicles  | •          | •              | •           |
| EEFI50015 ‡   | 5/16" Hose Adaptor: BMW®, Chrysler®, Infiniti®, Nissan®, VW® vehicles   | •          | •              | •           |
| EEFI50016 ‡   | M14 x 1.5 Inverted Flare Male: Geo®, Infiniti®, Toyota® vehicles  |            |                |             |
| EEFI50017 ‡   | M14 x 1.5 Inverted Flare Female: Geo®, Infiniti®, Toyota® vehicles  |            |                |             |
| EEFI50018 ‡   | M14 x 1.5 Ball Seat Female: Audi®, Hyundai®, Jaguar®, Land Rover®, Porsche®, Volvo®, VW® vehicles                                       | •          | •              | •           |
| EEFI50019 ‡   | M14 x 1.5 Ball Seat Male: Audi®, Hyundai®, Jaguar®, Land Rover®, Porsche®, Volvo®, VW® vehicles   | •          | •              | •           |
| EEFI50020 ‡   | 16 mm O-ring Adaptor: Hyundai®, Mitsubishi® vehicles  | •          | •              | •           |
| EEFI50021 ‡   | 11 mm O-Ring Adaptor: Infiniti®, Kia®, Mitsubishi®, Nissan® vehicles  | •          | •              | •           |
| EEFI50022 ‡   | M12 x 1.0 Pulse Dampener Adaptor: Acura®, Honda® vehicles   | •          | •              | •           |
| EEFI50023 ‡   | M12 x 1.5 Banjo Bolt Adaptor: Honda®, Hyundai®, Isuzu®, Lexus®, Toyota® vehicles  | •          | •              | •           |
| EEFI50024 ‡   | M12 x 1.25 Banjo Bolt Adaptor: Honda®, Hyundai®, Isuzu®, Lexus®, Toyota® vehicles   | •          | •              | •           |
| EEFI50025 ‡   | M6 x 1.0 Filter Adaptor: Acura®, Honda® vehicles  | •          | •              | •           |
| EEFI50026     | Spare Part Service Kit for 5009-50025 Adaptors  | •          | •              | •           |
| EEFI50027     | 1/4" Quick-Connect Male: Acura®, Honda® vehicles  | •          | •              | •           |
| EEFI50028     | 1/4" Quick-Connect Female: Acura®, Honda® vehicles  | •          | •              | •           |
| EEFI500A-PB   | Plastic Storage Case  | •          | •              |             |
| EEFI5ALL-PB   | Plastic Storage Case  |            |                | •           |

#### EEFI500A Master Fuel Pressure Kit

- Adaptors, 150 PSI gauge and a case keep this fuel pressure kit at the forefront of innovation
- User manual includes updated test connection illustrations and application charts
- Convenient lid label shows image of components, part numbers and applications for quick and easy identification and storage
- Set contains a tee manifold with a shutoff valve, a 3-1/2" dia. gauge assembly with a blowdown valve and the adaptors needed to test most fuel injection systems
- Dual-scale gauge with increased range to 150 PSI/1,000 kPa for newer vehicles utilizing higher pressures

- 1/4" male and female quick coupler fuel adaptors for testing pressure on newer Honda® 1.3, 1.5, 1.6, 1.8 and 2.0 L engines
- 90° 5/16" male quick coupler adaptor for testing on 2011-2014 Chrysler®, Dodge®, Jeep® and Volkswagen® applications with 3.2 and 3.6 L engines
- Removable adaptor tray for easy transport to the work area
- Fits in a 4" drawer and incorporates a new handle for easy transport; includes a sliding lid
- Not intended for gas direct-injection vehicles

#### EEFI500AADD Fuel Injection Add-on Set for EEFI500A

- Combine the components of the EEFI500AADD set with the EEFI500CORE set to form the EEFI500A master fuel injection pressure gauge set

#### EEFI500ACORE Core Fuel Injection Pressure Test Set

- For basic fuel injection pressure service needs
- Individual components or the EEFI500AADD set can be purchased to build up to the master set

#### EEFI5-ALL Fuel Adaptors Use with EEPV700

- For customers who do not own the EEFI500A

## General Purpose Gas System Cleaners

### EEF15CLEANER ‡ Fuel Injection System Cleaner

- Cleans deposits from fuel injectors, fuel rail and intake valves to restore engine performance, lower emissions and smooth idle
- Canister-style cleaner accepts preferred or OEM required fuel injection system cleaner (sold separately)
- Check vehicle fuel pressure with the right hand gauge and easily set the cleaning pressure with the left hand gauge
- Stainless steel braided Teflon® hose resists solvents
- Conveniently hangs under the hood with a center chain
- Compatible with EEF1500 Series adaptors (sold separately)
- See the user manual for vehicle make details

### EEF15CL-NOZ ‡ Intake Cleaning Adaptor (Blue-Point®)

- For use with the EEF15CLEANER
- Delivers a better cleaning solution with a new 180° nozzle to remove carbon deposits commonly found in vehicle intake systems, restoring drivability by allowing the engine to breathe better
- Removes sludge from the back of intake valves
- Misting spray pattern of solution gives maximum coverage in the intake system



EEF15CLEANER

EEF15CL-NOZ



EEDF500

EEDF501



EEDF502



EEDF503

## Diesel Fuel Pressure Testers

- Convenient Protective storage and carrying in a slide lid case that fits easily into a 4" drawer
- CE Approved
- Technical Support: 1-855-779-8880

### EEDF500 ‡ Duramax® Diesel Fuel Pressure Test Kit

- Designed for testing diesel fuel pressure and vacuum on GM® 6.6 L Duramax® engines
- Gauge assembly includes a compound gauge with a 0–15 PSI (0–100 kPa) pressure, plus 0–30 inHg vacuum scale and a protective rubber boot
- Long 6' flexible hose with a quick coupler for fast and easy connection to the engine

### EEDF501 ‡ Compucheck Fuel Pressure Test Set

- Designed for diesel fuel pressure and restriction testing on engines with Compucheck test ports
- 3-1/2" compound gauge has a 0–15 PSI (0–100 kPa) pressure and 0–30 inHg vacuum scale
- 2-1/2" pressure gauge has a 0–300 PSI (0–2,000 kPa) scale in 10 PSI (50 kPa) increments
- Includes female Compucheck quick coupler with 6' hose, pressure bleed off and quick connect for easy interchange of the two gauges
- Includes separate male Compucheck test port for installation in vehicles without Compucheck test ports

### EEDF502 ‡ Ford® Power Stroke® Fuel Pressure Test Set

- Developed with input from technicians on adaptor selection for Ford® Power Stroke® 7.3, 6.7, 6.4 and 6.0 L engines
- 0–100 PSI gauge and hose assembly
- Low-pressure diesel-fuel delivery testing (lift pump)
- Correct fuel delivery and dynamic fuel pressure are crucial to having a properly running engine
- Helps prevent a lean condition that may cause burning of injectors or scorched cylinders

### EEDF503 ‡ Cummins® Engine Diesel Fuel Pressure Test Kit

- Includes adaptors for lift tank fuel pump testing, engine return flow testing, flow testing, restriction testing and bubble testing
- Developed with input from technicians on adaptor selection
- Helps prevent a lean condition that may cause burning of injectors or scorched cylinders
- Low-pressure diesel fuel delivery testing (lift pump)
- Correct fuel delivery and dynamic fuel pressure are crucial to having a properly running engine
- Gauge: 45 PSI, 30/in Hg



- Do not expose gasoline or fuel to flames or other sources of ignition
- Use only in well ventilated area
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## FUEL AND ENGINE SYSTEMS: FUEL INJECTION



A227



FIH500



IPK1180



YA76462

### Specialty Service Tools

#### A227 3/8" Drive 6-Point Metric 27 mm Fuel Pressure Sensor Socket

##### Sensor Socket

- For removing and installing fuel pressure sensors from fuel injection fuel rails under the intake
- Socket has an enlarged bolt clearance to fit over the sensor connector where a regular 27 mm socket will not work
- Overall length of socket is 2"
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome alloy finish resists against rust and corrosion
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power

#### FIH500 Fuel Module Disconnect Tool (Blue-Point®)

- GM® fuel module disconnect tool for 1998 and later GM® full-size pickups, Suburban and Tahoe® vehicles
- 2 pc design permits easy access to the connectors
- Fits both 3/8" and 5/16" connector sizes
- Tool segments can be clipped together for convenient storage

#### IPK1180 Fuel Injector Puller

- Compact size allows for easy attachment and removal of the hard-to-reach injectors of the twin turbo V8 (N63) engine, reducing service time
- Easy to install on inline 6 and V8 (N63) engines, simply screw the tool onto the top of the injector, and with one or two taps of the slider, the injector will come out easily

#### YA76462 Universal EFI Quick Probe (Blue-Point®)

- Quickly detects electronic fuel injector functions on any gas or diesel engine
- Specifically designed to detect vibrations emitted when an electronic injector fires
- No hunting for injector wires to test at the connector
- No need to remove the injector for testing
- Includes a bright LED strobe, 7" removable probe tip, user guide, battery operation and sensitivity thumb wheel

## FUEL AND ENGINE SYSTEMS: FUEL SYSTEMS



YA997



FLR630



FIH940

### Fuel Inlet/Fuel Filter Tools

#### YA997 ‡ 2-1/4-2-9/16" Swivel Handle Fuel Filter Wrench (Blue-Point®)

- Designed to access hard-to-reach fuel filters
- Fits fuel filters 2-1/4-2-9/16"

#### FLR630 Fuel Tank Lock Ring Tool (Blue-Point®)

- Removes/installs plastic fuel tank lock rings without damage
- Channel design on the body allows the legs to adjust from 4-7-1/2" while keeping the drive centered
- Compact design prevents the tool from hanging over the work area and hitting other parts
- For newer, smaller GM® vehicles and vehicles with traditional size rings

### Fuel Pump Removal Tools

#### FIH940 Gas Tank Fuel Pump Removal Tool (Blue-Point®)

- Removes the plastic fuel pump retaining rings
- Universal adjustable design fits most plastic retaining rings
- Prevents damage to the original pump retaining ring
- For use with a 1/2" drive extension and ratchet
- Used to reinstall old retaining ring

## Steel Line Stoppers

### LCSS600 6 pc Line Clamp and Stopper Set

- Pliers are used to pinch off flexible lines to prevent spills when disconnected
- Spring-loaded handle and lock for easy one-hand application and release
- Two sizes cover all hoses: Small 1/8" and 3/4"; Large 3/4" and 2-1/4"
- Stoppers are used to seal steel lines once disconnected
- Spring-loaded for quick install and removal
- Four sizes to suit 5/16, 3/8 and 1/2" pipe and banjo fittings
- Manufactured from strong, lightweight, fiber-reinforced synthetic polymer with extreme chemical resistance

### HCP3KT 3 pc Hose Pinching Pliers Set (Blue-Point®)

- Includes (3) hose pinching pliers (6, 7 and 10")
- Includes a storage pouch

### SLS516SO 5/16" Steel Line Stopper

### SLS38SO 3/8" Steel Line Stopper

### SLS12SO 1/2" Steel Line Stopper

### SLSBANJOSO Banjo Steel Line Stopper

### LCSS600PB Blow Molded Case



HCP3KT

LCSS600



SLS516SO

SLS38SO

SLS12SO

SLSBANJOSO



LCS2

## Lug Nut Sockets

### LCS2 2 pc Lug Cap Socket Set

- Designed to remove plastic lug nut caps
- 1/4" hex shank allows use with a cordless screwdriver
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

### LCS19 19 mm Lug Cap Remover

### LCS22 22 mm Lug Cap Remover



SLS4KT

## Steel Line Stoppers (Blue-Point®)

### SLS4KT 4 pc Steel Line Stopper Kit (Blue-Point®)

- Plugs disconnected lines, preventing fluid leakage
- Prevents fluid contamination
- For use with automotive fluids
- Fast and easy to use; installs in seconds

### SLS-12 1/2" Steel Line Stopper (Blue-Point®)

- Use to seal 1/2" steel lines once disconnected
- Prevents fluid leaks and contamination during service
- Use with all automotive fluids
- Installs in seconds

## Disconnect Tools for Low-Profile Jiffy-tite® Fittings

### LDTJT5 Low-Profile Jiffy-tite® Disc Set (Blue-Point®)

- Disengages the line from Jiffy-tite® quick-connect fittings without removal of the clip
- Teeth of the tool fit perfectly into tight tolerance of the connectors
- When rotated, it allows the line to be pulled without damage to the connector or retaining clip so they can be reused
- Includes a new 3/4" size, making this the most comprehensive kit on the market
- Includes (5) disconnect tools (3/8, 1/2, 3/8-30°, 3/8-39° and 3/4")
- Includes a storage case

### LDTJT538 Low-Profile Jiffy-tite® 3/8" Disconnect Tool (Blue-Point®)

### LDTJT512 Low-Profile Jiffy-tite® 1/2" Disc (Blue-Point®)

### LDTJT55830 Low-Profile Jiffy-tite® 5/8"-30° Disc (Blue-Point®)

### LDTJT55839 Low-Profile Jiffy-tite® 5/8"-39° Disc (Blue-Point®)

### LDTJT534 Low-Profile Jiffy-tite® 3/4" Disc (Blue-Point®)

### LDTJT5PB Storage Case (Blue-Point®)



LDTJT5



- Plastic coated handle does not protect against electric shock
- Do not expose gasoline or fuel to flames or other sources of ignition
- Use only in well ventilated area
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## FUEL AND ENGINE SYSTEMS: FUEL SYSTEMS

### Injector Harness Testers

#### FID8838A Injector Harness Tester Set (Blue-Point®)

- Each tester plugs into the solenoid harness to identify electrical or fuel system malfunctions
- Includes (8) testers and an injector harness extension
- Includes a storage case

#### FID8320 Injector Harness Tester (Blue-Point®)

- Used on GM® TBI models 100, 200, 220, 300, 400 and 500 used on various cars and trucks

#### FID8329 Injector Harness Tester (Blue-Point®)

- Used on Bosch® PFI injectors used on various GM®, Ford® and Chrysler® vehicles with PFI

#### FID8339 Injector Harness Tester (Blue-Point®)

- Used on GM® Multec® 1 injectors and the “bottom feed” injectors used on 2.2 L 4-cylinder “J” and “L” cars from 1989–1993

#### FID8340 Injector Harness Tester (Blue-Point®)

- Used on GM® SCPI truck engines 4.3 L V6, 5.0 L V8 and 5.7 L V8 (1996–later), plus 4.8 L V8, 5.3 L V8, and 6.0 L V8 (1999–later)

#### FID9210 Injector Harness Tester (Blue-Point®)

- Designed for Geo TBI systems (1992–later)

#### FID8838A1 Injector Harness Tester (Blue-Point®)

- Used on GM® Multec® 2 injectors used in 1999 and later 2.4 L 4-cylinder engines in Oldsmobile® Intrigue and Cutlass; Chevrolet® Cavalier and Malibu®; and Pontiac® Sunfire® vehicles

#### FID8838A2 Injector

#### Harness Tester (Blue-Point®)

- For use on Bosch® 2 injectors used on 2000–later Cadillac® 4.6 L V8 and Oldsmobile® 4.0 L V8 engines

#### FID8838A3 Injector Harness Extension (Blue-Point®)

- Injector harness extension line for all FID Series Injector Harness Testers
- Used when the injector is in a lower position in the manifold or cylinder head



FID8838A



### Fuel Line Disconnect Tools

- Designed to service special quick-connect couplings found on fuel feed and return lines located at the engine

#### FDT50 Fuel Line Disconnect Set

- One bent tool and one straight tool provide versatility when servicing VOSS-Type 3/8" fuel line connectors
- Tools are .100 thick, allowing for increased access
- Spreader dimension is .806"

#### FDT501 Cummins® Flat Thin Disconnect Tool

- Designed to release the fuel line connectors on the Cummins® ISB, ISC, ISL, QSC8.3 and QSL9 engine family
- Tools work on the low-pressure lines of the Cummins® engines
- Tools are .100 thick allowing for increased access
- Spreader dimension is .806"

#### FDT502 Cummins® Thin Formed Disconnect Tool

- Designed to release the fuel line connectors on the Cummins® ISB, ISC, ISL, QSC8.3 and QSL9 engine family
- Tools work on the low-pressure lines of the Cummins® engines
- Tools are .100 thick allowing for increased access
- Spreader dimension is .806"

#### FDT60 Fuel Line Disconnect Set

- Tools are designed to release the fuel line connectors on the Cummins® ISB and ISX engine family
- Works on low-pressure lines around the engine and chassis
- Measures .250 in thickness and includes one bent tool and one straight tool for versatility when servicing Cummins® engines
- Compressing dimension is .918"

#### FDT601 Flat Cummins® Fuel Line Disconnect Tool

- Designed to release the fuel line connectors on the Cummins® ISB and ISX engine family
- Works on low-pressure lines around the engine and chassis
- Measures .250 in thickness
- Compressing dimension .918"

#### FDT602 Formed Cummins® Fuel Line Disconnect Tool

- Designed to release the fuel line connectors on the Cummins® ISB and ISX engine family
- Works on low-pressure lines around the engine and chassis
- Measures .250 in thickness
- Compressing dimension .918"

#### FDT70 Fuel Line Disconnect Set

- Tools are designed to release the VOSS-type 1/2" fuel line connectors on the Cummins® ISB, ISC, ISL, QSC 8.3, and QSL9 engine family
- Works on low-pressure lines around the engine and chassis
- Measures .100 in thickness and includes one bent tool and one straight tool for versatility when servicing Cummins® engines
- Spreader dimension 1.115"

#### FDT701 Flat Cummins® Fuel Line Disconnect Tool

- Tools are designed to release the VOSS-type 1/2" fuel line connectors on the Cummins® ISB, ISC, ISL, QSC 8.3 and QSL9 engine family
- Works on low-pressure lines around the engine and chassis
- Measures .100 in thickness and includes one bent tool and one straight tool for versatility when servicing Cummins® engines
- Spreader dimension 1.115"



## Fuel Line Disconnect Tools

- Designed to service special quick-connect couplings found on fuel feed and return lines located at the engine

### FDT702 Formed Cummins® Fuel Line Disconnect Tool

- Tools are designed to release the VOSS-type 1/2" fuel line connectors on the Cummins® ISB, ISC, ISL, QSC 8.3, and QSL9 engine family
- Works on low-pressure lines around the engine and chassis
- Measures .100 in thickness and includes one bent tool and one straight tool for versatility when servicing Cummins® engines
- Spreader dimension 1.115"

### LDT3730 Fuel and A/C Line Disconnect Pliers (Blue-Point®)

- Unique design provides extra leverage when disconnecting quick-connect couplings on air-conditioning and fuel lines
- Works in conjunction with 5/16, 3/8 or 1/2" adaptors from the ACT1370 or LDT6 disconnect sets
- Pliers forks have different sized openings so the tool can be turned around to fit single- or two-step collar-designed connector lines
- Can also be used to reconnect stubborn lines or connections that are in hard-to-reach areas

### LDT40 Master Disconnect Set (Blue-Point®)

- Works great on quick-connect, spring-lock, quick-coupler, Jiffy-tite® and other fittings
- Disconnect tools for fuel line quick-connect and spring-lock couplings, air-conditioning line couplings, transmission oil cooler line connectors and clutch couplings
- Couplers for all major US and import brands of vehicles and light trucks
- Includes a storage case

### LDT6 Disconnect Set

- Disconnects air-conditioning, quick-connect fuel lines and spring-lock couplings on Ford® and Chrysler® air-conditioning lines
- Works on fuel lines and other quick-disconnect couplings on US and import vehicles
- Angled to access tight spots
- Durable plastic resists fuels and solvents
- Includes (6) disconnect tools (1/2–7/8")

### LDT8 Master Disconnect Set (Blue-Point®)

- For spring-lock and quick-disconnect couplings used on air-conditioning and fuel lines on Ford®, GM® and Chrysler® vehicles

### LDTF2 Fuel Line Disconnect Tool (Blue-Point®)

- Disconnects the fuel line from the fuel filter on 5.3 L Suburban®, Tahoe®, Yukon®, Avalanche®, plus select Silverado® and Sierra® vehicles
- Can be used on other flex fuel systems



- Plastic coated handle does not protect against electric shock
- Do not expose gasoline or fuel to flames or other sources of ignition
- Use only in well ventilated area
- Read safety precautions on pages W1 to W4

## FUEL AND ENGINE SYSTEMS: FUEL SYSTEMS



YA2850A



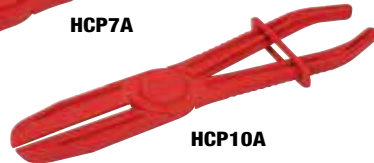
YA965A



HCP6A



HCP7A



HCP10A



SHP2KT



SHP7



SHP10

### Shutoffs/Hose Pinching Pliers

#### YA2850A Hose Pinchers (Blue-Point®)

- For diagnosing problems that require rubber or plastic fuel, vacuum and air lines to be temporarily closed
- Effectively seals lines without disconnecting
- Set of (2)

#### YA965A † Hose Pinching Pliers (Blue-Point®)

- Eliminates the need to drain the cooling system when repairing a thermostat or water pump
- Used to pinch off emission control hoses, flexible brake lines and rubber hose fuel lines
- Jaws swivel for positive clamping

#### HCP6A Hose Pinching Pliers (Blue-Point®)

- Used for sealing hose sizes 1/8–5/16" (3–8 mm)
- For use on brake lines, fuel lines and vacuum hoses
- 6" long

#### HCP7A Hose Pinching Pliers (Blue-Point®)

- Used for sealing hose sizes 1/2–3/4" (13–19 mm)
- For use on heater hoses and vacuum lines
- 7" long

#### HCP10A Hose Pinching Pliers (Blue-Point®)

- For sealing hoses 3/4–2-1/4" (19–57 mm)
- For use on radiator hoses
- 10" long

#### SHP2KT Hose Pinching Pliers Set

- Used to pinch off flexible lines to prevent spills when disconnected
- Spring-loaded handle and lock for easy one-hand application and release
- Manufactured from strong, lightweight fiber-reinforced synthetic polymer with extreme chemical resistance
- Use SHP7 for small lines: 1/8–3/4" (3–19 mm)
- Use for large lines: 3/4–2-1/4" (19–57 mm)

#### SHP2KT Hose Pinching Pliers Set

- Used to pinch off flexible lines to prevent spills when disconnected
- Spring-loaded handle and lock for easy one-hand application and release
- Manufactured from strong, lightweight fiber-reinforced synthetic polymer with extreme chemical resistance
- Use SHP7 for small lines: 1/8–3/4" (3–19 mm)
- Use for large lines: 3/4–2-1/4" (19–57 mm)

#### SHP7 Hose Pinching Pliers

#### SHP10 Hose Pinching Pliers

## OXYGEN AND FUEL SENSOR TOOLS



GANM27

### Fuel Sensor Wrench

#### GANM27 Fuel Sensor Wrench

- Used to remove the high-pressure fuel sensor on the 3.6 FSI engine found on the VW® Touareg® and CC models, plus Audi® Q7
- 12-point crowfoot socket engages every 30° for better access in restricted areas
- Special alloy steel provides the highest match of strength and durability
- 3/8" drive, 27 mm



## Sensor Tools

### S6176 1/2" Drive Metric 22 mm Oxygen Sensor Socket

- For service on most Nissan®, Mazda®, Honda® and Acura® vehicles
- Slotted side clears projections
- 3-7/8" long

### S6150 1/2" Drive 12-Point 7/8" Oxygen Sensor Crowfoot Wrench

- Special crowfoot wrench design provides the strength necessary for removal/installation
- 1/2" drive, 12-point, 7/8" wrench size
- Nickel-chrome finish

### S6154 1/2" Drive 12-Point 22 mm Oxygen Sensor Wrench

- For use on oxygen sensors on 2007 Acura® RDX®
- 1/2" drive, 12-point, 22 mm wrench size
- Nickel-chrome finish

### SWR1A Oxygen Sensor Wrench

- Designed for all oxygen sensors with a 7/8" hex
- Flex head offers essential clearance for removal/installation of oxygen sensors when a sensor is positioned upward and inward to the floorboard or when leverage is needed around an exhaust pipe
- Ford® Contour and Ford® Modular 4.6 L and 5.4 L engines used in trucks and SUVs have this application
- Other applications include 7/8" and 22 mm knock sensors used on midsize trucks, SUVs and vans
- Flank Drive® wrenching system for greater applied torque
- Chrome finish for easy cleanup and protection against corrosion
- Compact, low clearance head
- Overall length: 10-3/4"; hex: 6-point 7/8"; 1-9/16" head diameter
- Slot width: 1-5/16"

### SWR2 Oxygen Sensor Socket

- For oxygen sensors located in the exhaust manifolds of 1981-later cars and light trucks, including VW®
- 3/8" drive with 7/8" hex size
- 1/2" opening for easy access to oxygen sensor
- Flank Drive® wrenching system for greater applied torque with less effort
- Ball detent in square drive for secure retention
- Industrial finish

### SWR4A Oxygen Sensor Wrench

- Used on oxygen sensors with a 7/8" (22 mm) hex
- Bent handle design with flex head offers extra clearance for removal and installation of shielded oxygen sensors and air/fuel sensors
- Chrome finish for easy cleanup and protection against corrosion
- Depth of socket and wall diameter of socket is critical for limited space inside heat shield
- Overall length: 10-3/4" | hex: 6 point 7/8"; head diameter: 1-3/16"
- Slot width: 1/2"

### SWR102 Oxygen Sensor Wrench Set

- SWR1 and SWR2 (2 pc) in a storage tray



S6176



S6150



S6154



SWR1A



SWR2



SWR4A



SWR102



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Do not expose gasoline or fuel to flames or other sources of ignition
- Use only in well ventilated area
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4



EMSM1222



EMSM1230



YA1239



YA6675B



YA6775A



YA8875B



YA9375B



YA9385

## Sensor Tools

### EMSM1222 1/2" Drive Metric 22 mm Sensor Socket

- Specially designed cutout ensures a tight fit on the sensors without cutting wires
- Precise fit; six-sided more flat-to-flat contact avoids rounding the sensor (as opposed to two-sides with a standard wrench)
- Thin outside diameter for greater accessibility to sensors that are tucked away
- Special alloy steel, heat treated for optimal hardness and strength
- Industrial finish helps protect against corrosion
- Square drive end has grooved detents on all four interior walls

### EMSM1230 1/2" Drive Metric 30 mm Sensor Socket

- Specially designed cutout ensures a tight fit on the sensors without cutting wires
- Precise fit; six-sided more flat-to-flat contact avoids rounding the sensor (as opposed to two-sides with a standard wrench)
- Thin outside diameter for greater accessibility to sensors that are tucked away
- Special alloy steel, heat treated for optimal hardness and strength
- Industrial finish helps protect against corrosion
- Square drive end has grooved detents on all four interior walls

### EMSM1230 1/2" Drive Metric 30 mm Sensor Socket

- Specially designed cutout ensures a tight fit on the sensors without cutting wires
- Precise fit; six-sided more flat-to-flat contact avoids rounding the sensor (as opposed to two-sides with a standard wrench)
- Thin outside diameter for greater accessibility to sensors that are tucked away
- Special alloy steel, heat treated for optimal hardness and strength
- Industrial finish helps protect against corrosion
- Square drive end has grooved detents on all four interior walls

### YA1239 Dual Drive Oxygen Sensor Wrench (Blue-Point®)

- 1/2 and 3/8" drive
- Attach 1/2" breaker bar on the end of the tool to initially loosen stuck sensors; use a 3/8" ratchet on the top for fast removal and installation
- Fits oxygen sensor applications with a heat shield
- Slotted body allows clearance for wire harness
- Forged, heat-treated steel with 6-point design will withstand high-torque removal applications

### YA6675B Shielded Oxygen Sensor Socket (Blue-Point®)

- Designed to remove and replace "can"-type shielded oxygen sensors and air fuel sensors currently found on Toyota® 2003-later, Lexus® 2006-later, Honda® 2006-later, Acura® 2007-later, Mazda® 2006-later, Hyundai® 2006-later, Kia® 2006-later, Nissan® 2007-later and Infiniti® 2007-later models
- Depth and outer diameter of the socket are critical features, enabling it to fit in the limited space of the heat shield
- Design features a 3/8" drive, 6-point, 22mm hex socket
- Forged for maximum strength

### YA6775A Spline Oxygen Sensor Wrench (Blue-Point®)

- Includes a 12-point and a 6-point socket with a spline configuration, that provides optimal engagement and reduces the possibility of damage versus other oxygen sensor wrenches
- Fits most 22 mm non-shielded oxygen sensor configurations
- Pivoting handle provides increased access and positive leverage to confined spaces
- Enables technicians to increase profit-earning potential

### YA8875B Spline Oxygen Sensor Wrench (Blue-Point®)

- For oxygen sensors on GM® LT1 and LT5 5.7 L V8 engines
- Additional applications include Harley-Davidson® motorcycles 2007-later
- Eliminates need to unhook exhaust system when removing or reinstalling the oxygen sensor
- 3/8" drive with 2-1/8" hex size
- Industrial finish

### YA9375B Oxygen Sensor Wrench (Blue-Point®)

- Used to install and remove oxygen and vacuum sensors on most US and import vehicles
- Can be used with an impact wrench
- 1/2" drive, 22 mm; 1-1/4" external hex; 19/32 x 2-3/4" slot to clear obstructions
- Black industrial finish

### YA9385 Oxygen Sensor Socket (Blue-Point®)

- Used to install and remove oxygen and vacuum sensors on most US and import vehicles
- Can be used with an impact wrench
- 1/2" drive, 22 mm; 1-1/4" external hex; 19/32 x 2-3/4" slot to clear obstructions
- Black industrial finish



## Carburetor Adjustment Tools

### 2006IT Carburetor Adjusting Set

- Includes S6137E, S6138E, S6139, TM64, TM83A and TM85

### S6137E Idle Adjusting Hex Head Driver

- For 1978–later Chrysler® vehicles
- 3/32" hex driver is 1-9/16" long
- 7/16" O.D.
- 1/4" drive industrial finish bit; nickel-chrome finish socket

### S6138E Idle Adjusting Driver

- For Ford® feedback carburetors
- Bit has a 3/16 x 1/32" flat tip, 2" long
- 7/16" O.D., 1/4" drive
- Industrial finish bit; nickel-chrome finish socket

### S6139 Double D Carburetor Adjusting Socket

- For 1978–later GM® idle adjusting screw
- 3.5 mm across flats, 13/16" long
- 1/4" drive, O.D. drive end is 7/16"
- Nickel-chrome finish

### TM64 Rigid Adjusting Tool

- Features a rigid elbow bend rather than flexible
- Used with carburetor drivers for making carburetor and point adjustments
- Rigid shaft
- Overall length is 18-1/4, 1/4" drive

### TM65 Flexible Adjusting Tool

- Flexible shaft end for working in restricted areas
- Ideal for working in tight spaces when servicing window-type distributors
- Knob markings allow for counting turns
- Overall length is 19-3/4, 1/4" drive

### TM615 1/4" Drive Standard Handle Extra-Long

#### Flexible Driver

- Designed for carburetor work; this driver can also access recessed distributors
- 1/4" drive at the end of a tough but flexible spring steel shank
- Ideal to access hard-to-reach adjusting screws
- Intended for low-torque applications

### TM83A Recessed Blade Carburetor Screwdriver

- Used with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in the outer socket wall to self-center
- 1/4" drive, 3/8 x 1/32" blade
- Nickel-chrome finish

### TM84 Recessed Blade Carburetor Screwdriver

- Use with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in the outer socket wall to self-center
- 1/4" drive, 7/16 x 1/32" blade
- Nickel-chrome finish

### TM85 Recessed Blade Carburetor Screwdriver

- Used with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in the outer socket wall to self-center
- 1/4" drive, 9/32 x 1/32" blade for adjusting late-model Quadrajets carburetors
- Nickel-chrome finish

### TAM3E Metric Hex Head Driver

- Used to make carbon monoxide adjustments on 1976 Dasher, 1974–1976 Audi® and Volvo®, and 1975 and 1976 Fiat® and Saab® vehicles
- 3 mm bit size, 1/4" drive
- 6-7/8" long
- Nickel-chrome finish



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## FUEL AND ENGINE SYSTEMS: DISTRIBUTOR SERVICE TOOLS



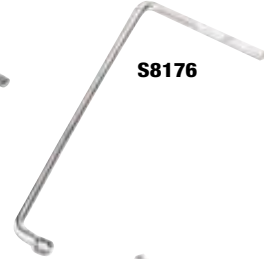
S8564B



S9707



M3515



S8176



S9609



S9622



S9626

### SAE Distributor Wrenches

| Stock No. | Wrench Size, inches |
|-----------|---------------------|
| S8564B    | 1/2                 |
| S9707     | 1/2                 |
| M3515     | 9/16                |
| S8176     | 9/16                |
| S9609     | 9/16                |
| S9622     | 9/16                |
| S9626     | 9/16                |

#### S8564B Distributor Wrench

- Ford®, Lincoln® and Mercury® engines; clears leads and coils

#### S9707 Distributor Wrench

- Ford®, Mercury® and Cadillac® engines

#### M3515 Distributor Wrench

- GM® V6 and V8 trucks

#### S8176 Distributor Wrench

- Pontiac® and Oldsmobile® engines

#### S9609 Distributor Wrench

- Chevrolet® V8 engines

#### S9622 Distributor Wrench

- 1977–later full-size GM® cars with V8 engines

#### S9626 Distributor Wrench

- GM® V6 engines



S6134

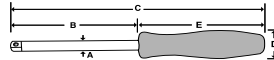
### Metric Distributor Wrench

#### S6134 Metric Distributor Wrench

- 1982–later Cadillac® 4.1 L V8 engines, GM® 2.8 L V6 engines, and 1985 VW® Golf® engines
- 15 mm



TM63A



### Driver

#### TM63A 1/4" Drive Standard

#### Handle Flexible Driver

- 1/4" drive at the end of a tough but flexible spring steel shank
- For low-torque applications

| Stock No. | A   | B       | C      |
|-----------|-----|---------|--------|
| TM63A     | 1/4 | 4-21/32 | 9-3/16 |



ACD12B

### Cleaning Brush

#### ACD12B Distributor Cleaning Brush (Blue-Point®)

- Wire brush cleans terminal connections on distributors and coils
- 5-1/4" long with a 4" long handle
- Wire diameter is .012"

## IGNITION TOOLS

### Ignition Testers



IT100

#### IT100± Ignition Tester

- For standard ignition systems
- Checks for spark without removing the spark plug from the engine
- Testers attach to the spark plug lead and spring clip attaches to an appropriate ground



ITHE100

#### ITHE100± Ignition Tester

- Used for HEI systems
- Checks for spark without removing the spark plug from the engine
- Tester attaches to the spark plug lead and spring clip attaches to an appropriate ground



YA6465

### Ignition Tool

#### YA6465 1/2" Drive Hex Ford® Ignition Modular Wrench (Blue-Point®)

- Used to remove 7/32" (5.5 mm) hex retainer bolts on Ford® ignition modules
- 1/2" hex drive

# WELDING

IF IT INVOLVES ANY ASPECT OF WELDING, SNAP-ON® HAS YOU COVERED – FROM MIG AND TIG WELDERS, PLASMA CUTTERS AND OXYGEN-ACETYLENE TORCH KITS TO PROTECTIVE SAFETY GEAR AND OTHER ACCESSORIES.

## A SEAMLESS BLEND OF PERFORMANCE, DURABILITY AND SAFETY.

With higher-duty cycles and wider amperage ranges, our machines let you weld thicker metal (like steel, aluminum and stainless steel) for a longer period of time. They also last longer, thanks to copper-on-copper transformer construction, metal wire feeder assemblies and integral cooling fans. And with a wide range of welding helmets and protective gear, we even make operation safer and more comfortable.



# SNAP-ON® MUSCLE MIG/MIG WIRE FEED WELDERS

## Snap-on® 230 V MIG Welders

Snap-on® MIG Welders have higher duty cycles at maximum amperage, providing added weld times and performance that surpasses the competition. Ideal for many applications, including automotive repair, collision, heavy-duty truck, farm and metal fabrication shops. Added capabilities include a detachable feeder assembly, spot stitch (some models), along with the optional TIG accessory and aluminum spool gun packs.

Wire feed assembly, constructed of precision-machined cast aluminum, features all-metal gearing and 800 in/min delivery for consistent wire speeds

Capacitor bank and diode set delivers consistent voltage and industry-leading smooth arc characteristics

All-copper-wound, tapped transformer features Nomex® insulation and bolted laminations to provide precise voltage control and repeatable welds



## Snap-on® 230 V MIG Welders

| Specifications                        | MIG220                      | MM250SL                     | MM350XL                     |
|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Output Amperage Max, amps             | 220                         | 270                         | 350                         |
| Duty Cycle Rating                     | 60% @ 185 A                 | 100% @ 185 A                | 100% @ 300 A                |
| Welding Capacity, Single Pass, inches | 5/16                        | 3/8                         | 1/2                         |
| Voltage Settings, MIG/TIG             | 12/4                        | 8/4                         | 8/4                         |
| Spot-Stitch                           | No                          | Yes                         | No                          |
| Detachable Feeder                     | No                          | Yes                         | Yes                         |
| Wire Size, inches                     | 0.023–0.045                 | 0.023–0.045                 | 0.023–0.063                 |
| Torch Length, feet                    | 10                          | 10                          | 12                          |
| Feeder Cable Length, feet             | N/A                         | 15                          | 15                          |
| Ground Cable Length, feet             | 10                          | 15                          | 25                          |
| Power Input Cable Length, feet        | 20                          | 20                          | 20                          |
| Input Voltage                         | 208/230 V AC, 50/60 Hz 1-ph | 208/230 V AC, 50/60 Hz 1-ph | 208/230 V AC, 50/60 Hz 1-ph |
| Input Amperage (recommended)          | 26/24                       | 26/24                       | 46/42                       |
| Gas Regulator-Flowmeter               | Yes                         | Yes                         | Yes                         |
| Warranty*                             | 2 Year                      | 2 Year                      | 2 Year                      |

\*Does not include cable or torch.

# SNAP-ON® MUSCLE MIG/MIG WIRE FEED WELDERS

Snap-on® MIG welders can be used as straight polarity with shielding gas or reverse polarity without shielding gas for flux cored wire. MIG135 is compact and portable for use on the worksite.



MIG135



MIG140



MM140SL

## Snap-on® 115 Volt MIG Welders

| Specifications                         | MIG135                  | MIG140                  | MM140SL                 |
|--|-------------------------|-------------------------|-------------------------|
| Output Amperage Max, amps              | 135                     | 140                     | 140                     |
| Arc Voltage, V DC                      | 15–18.3                 | 14–26                   | 14–26                   |
| Open Circuit Voltage, V DC             | 16–24                   | 16–34                   | 18–33                   |
| Duty Cycle Rating                      | 20% @ 90 A              | 60% @ 140 A             | 100% @ 140 A            |
| Spot-Stitch                            | No                      | No                      | Yes                     |
| Welding Capacity, Single Pass (inches) | 3/16                    | 1/4                     | 1/4                     |
| Detachable Feeder                      | No                      | No                      | Yes                     |
| Ground Cable Length, feet              | 8                       | 10                      | 15                      |
| Power Input Cable Length, feet         | 6                       | 20                      | 20                      |
| Input Voltage                          | 115 V AC, 50/60 Hz 1-ph | 115 V AC, 50/60 Hz 1-ph | 115 V AC, 50/60 Hz 1-ph |
| Input Amperage (recommended)           | 20                      | 30                      | 15                      |
| Gas Regulator-Flowmeter                | Regulator               | Yes                     | Yes                     |
| Dimensions, inches (W x D x H)         | 13 x 19 x 18-1/4        | 14-1/2 x 26.3 x 32.3    | 14-1/2 x 26.3 x 32.3    |
| Warranty*                              | 2 Years                 | 2 Years                 | 2 Years                 |

\*Does not include cable and torch

TECHNICAL SUPPORT 1-800-ABC-WELD

## ACCESSORIES – MIG WELDERS

### MIG Welder Accessories

| Image | Stock No.   | Description   | MM140SL | MM250SL | MM350XL | MIG220 | MIG140 |
|-------|-------------|---|---------|---------|---------|--------|--------|
|       | MHG5A       | Aluminum Spool Gun Converts Welders Listed to Aluminum Welding        | N/A     | N/A     | N/A     | Opt    | Opt    |
|       | MHG5B       | Aluminum Spool Gun Converts Welders Listed to Aluminum Welding        | Opt     | Opt     | Opt     | N/A    | N/A    |
|       | CKSTP2125A  | DC TIG Pack Adds DC TIG Welding Capability for Welding Ferrous Metals | N/A     | N/A     | N/A     | Opt    | Opt    |
|       | FLEXTIG25   | DC TIG Pack Adds DC TIG Welding Capability for Welding Ferrous Metals | Opt     | Opt     | Opt     | N/A    | N/A    |
|       | CKS2TK      | Twin Cylinder Rack Converts Models Listed to Carry Two Cylinders      | N/A     | Opt     | Std     | Opt    | N/A    |
|       | CKS15FN1030 | Flexible Neck Torch for Welding Exhaust Systems                       | Opt     | Opt     | Opt     | Opt    | Opt    |

Std = Standard Opt = Optional  
TECHNICAL SUPPORT: 1-800-ABC-WELD



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

# SNAP-ON® MIG WIRE FEED WELDERS

MIG225Ai



MIG200i



MIG185i



MIG160i



## Synergic MIG Welders

- Easy-to-read LCD display panel and a single knob for selection and adjustments
- Multiple synergic curves allow the user to weld a variety of materials and thicknesses
- Preset synergic curves automatically provide the most optimal parameters for individual situations
- Inverter-style wire feed synergic MIG features two torches allows for quick changeover time from steel to aluminum
- Pulse and double-pulse settings for increased heat control with thin materials and improved overall weld appearance
- Individual welding parameters and preset by material, thickness, wire type and size, along with shielding gas type
- MIG welding of steel, stainless-steel and MIG brazing of high-strength and Boron steels
- Hot start option increases current at the beginning of the weld cycle to ensure adequate penetration
- Crater fill selection allows user to finish the weld cycle by filling in the weld puddle and eliminates pinholes
- LCD screen shows welding parameters, such as current, voltage, recommended thickness, wire speed and wire diameter
- Machine automatically sets both heat and wire speed for multiple material thicknesses
- Adjustable arc length, inductance, burnback, soft start, pre-gas and post-gas
- Spot weld and pause features, with adjustable on time
- Faster set-up time and reduced production times
- Complete with regulator-flowmeter

| Specifications                                 | MIG225Ai       | MIG200i  | MIG185i   | MIG160i   |
|--|----------------|----------|-----------|-----------|
| Power Output, amps                             | 20–225         | 20–200   | 20–185    | 20–160    |
| Duty Cycle/Rated Output, amps                  | 120 @100%      | 120@100% | 110 @100% | 100 @100% |
| Standard Torch Configuration                   | Aluminum/Steel | Aluminum | Aluminum  | Steel     |
| Ground Cable Length, feet                      | 11.5           | 10       | 10        | 10        |
| Power Input Cord Length, feet                  | 9              | 9        | 9         | 9         |
| Power Input, V AC                              | 230            | 230      | 230       | 230       |
| Input Current, amps                            | 26             | 26       | 24        | 20        |
| Power input, Hz (Single Phase)                 | 50/60          | 50/60    | 50/60     | 50/60     |
| Height, inches                                 | 38             | 16       | 15        | 15        |
| Width, inches                                  | 23             | 11       | 8         | 8         |
| Depth, inches                                  | 36             | 19       | 18        | 6         |
| Machine Weight, lb                             | 150            | 46       | 30        | 24        |
| Shipping Weight, lb                            | 176            | 50       | 34        | 28        |
| Optional Spot Weld Nozzle (steel torches only) | MIG1852        | MIG1852  | MIG1852   | MIG1152   |

\*Does not include cable and torch

TECHNICAL SUPPORT: 1-800-ABC-WELD

### MIG225Ai Dual Torch Double-Pulse Synergic MIG Welder

- Welds 5356, 4047 and 0.45 5554 aluminum with push-pull torch (standard equipment) that includes a fine current adjustment button
- Aluminum push-pull torch is longer for increased accessibility around the vehicle and contains a drive roller to eliminate wire binding
- Complete with running gear, two regulator-flowmeters and the capability to store two separate gas bottles

### MIG220i Synergic Double-Pulse Inverter MIG Welder

- Welds 5354, 4047 and 0.045 5554 aluminum with a standard 10 foot torch
- Selectable start mode includes a trigger control for Start Current, Slope Time and Crater Fill options
- Slope time adjustment controls the amount of time full current is present between Hot Start and Crater Fill options
- Comes standard with aluminum torch

### MIG185i Pulse Synergic MIG Welder

- Welds 5356 and 4047 aluminum with standard aluminum torch

### MIG160i Synergic MIG Welder

- Inverter-style wire feed synergic MIG welder with a standard steel torch
- MIG welding of steel, stainless-steel and MIG brazing of high-strength and Boron steels
- Welds 5356 and 4047 aluminum with optional aluminum torch and drive roller (MIG1606 and CKS3080942)

### MIG1855 Steel MIG Torch

- Optional steel torch for MIG185i Pulse Synergic Inverter MIG Welder





**CKS15TG1025**



**CKS25SG1035**



**CKSGRFM**

**MIG Welders Parts and Consumables**

| Stock No.   | Description   | MIG140 | MIG220 | MM140SL | MM250SL | MM350XL |
|-------------|---|--------|--------|---------|---------|---------|
| CKS15TG1025 | 10' Cable and MIG Welding Torch (.025" wire)        | Opt    | Opt    | Opt     | Opt     | —       |
| CKS15TG1030 | 10' Cable and MIG Welding Torch (.030" wire)        | Std    | Opt    | Std     | Opt     | —       |
| CKS15TG1035 | 10' Cable and MIG Welding Torch (.035" wire)        | Opt    | Std    | Opt     | Std     | —       |
| CKS25SG1035 | 10' Cable and MIG Welding Torch (.035" wire)        | Opt    | Opt    | Opt     | Opt     | —       |
| CKS15TG1230 | 12' Cable and MIG Welding Torch (.030" wire)        | Opt    | Opt    | Opt     | Opt     | —       |
| CKS15TG1235 | 12' Cable and MIG Welding Torch (.035" wire)        | Opt    | Opt    | Opt     | Opt     | —       |
| CKS35XL1235 | 12' Cable and MIG Welding Torch (.035" wire)        | —      | —      | —       | —       | Std     |
| CKS35XL1245 | 12' Cable and MIG Welding Torch (.045" wire)        | —      | —      | —       | —       | Opt     |
| CKS15TG1535 | 15' Cable and MIG Welding Torch (.035" wire)        | Opt    | Opt    | Opt     | Opt     | —       |
| CKS35XL1535 | 15' Cable and MIG Welding Torch (.035" wire)        | —      | —      | —       | —       | Opt     |
| CKS35XL1545 | 15' Cable and MIG Welding Torch (.045" wire)        | —      | —      | —       | —       | Opt     |
| CKSM103LB   | Cable and MIG Welding Torch Liner (.020-.030" wire) | Std    | Opt    | Std     | Opt     | —       |
| CKSM123LB   | Cable and MIG Welding Torch Liner (.020-.030" wire) | Opt    | Opt    | Opt     | Opt     | Opt     |
| CKSM104LN   | Cable and MIG Welding Torch Liner (.030-.045" wire) | Opt    | Std    | Opt     | Std     | —       |
| CKSM124LN   | Cable and MIG Welding Torch Liner (.030-.045" wire) | Opt    | Opt    | Opt     | Opt     | Std     |
| CKSM3TN50   | 1/2" Adjustable Nozzle                              | Std    | Std    | Std     | Std     | —       |
| CKSM6B      | Insulated Nozzle Bushing                            | —      | —      | —       | —       | Std     |
| CKSM3T2510  | 10 Pack Tip   | Opt    | Opt    | Opt     | Opt     | Opt     |
| CKSM3T3010  | Contact Tip (.030" wire)                            | Std    | Std    | Std     | Std     | Opt     |
| CKSM3T3510  | Contact Tip (.035" wire)                            | Opt    | Opt    | Opt     | Opt     | Std     |
| CKSM3T4510  | 10 Pack Tip   | Opt    | Opt    | Opt     | Opt     | Opt     |
| CKSM6D      | Gas Diffuser  | —      | —      | —       | —       | Std     |
| CKSM3TD     | Gas Diffuser  | Std    | Std    | Std     | Std     | —       |
| CKSGRFM     | Flowmeter-Regulator                                 | Std    | Std    | Std     | Std     | Std     |
| CKSM5C62    | Nozzle Cup  | —      | —      | —       | —       | Std     |
| CKSM3TB2    | Insulator with O-Ring                               | Std    | Std    | Std     | Std     | —       |
| CKSM3TBR3   | 3 Pack O-Rings                                      | Std    | Std    | Std     | Std     | —       |

Std = Standard Opt = Optional  
 TECHNICAL SUPPORT: 1-800-ABC-WELD

**Snap-on® MIG Welder Consumable Kits**

Contains a selection of parts to repair Snap-on® MM Series, MIG220, MIG140, YA212AIND and FM140A welders, along with MHG Series spoolguns.

**CKSMPK1 MIG Welder Parts Kit**

- Standard MIG consumables, such as contact tips, O-rings, nozzles, insulator and diffuser

**CKSMPK10 MIG Welder Master Parts Kit**

- Contains CKSMPK1 contents, along with additional parts for aluminum spool guns



**CKSMPK1**



**CKSMPK10**



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

# PARTS AND CONSUMABLES

## Portable MIG Welder Parts and Consumables

| Stock No.  | Description                       | MIG125 | MIG135 |
|------------|-----------------------------------|--------|--------|
| CKSGR115   | Regulator                         | Std    | Std    |
| MIG023     | Contact Tip (.023), 10 each       | Std    | Std    |
| MIG030     | Contact Tip (.030), 10 each       | Opt    | Opt    |
| MIG035     | Contact Tip (.035), 10 each       | Opt    | Opt    |
| MIG1151    | Tapered Nozzle                    | Std    | Std    |
| MIG1152    | Spot Weld Nozzle                  | Opt    | Opt    |
| MIG1153    | Steel Liner                       | Std    | Std    |
| MIG1154    | Nozzle Spring                     | Std    | Std    |
| MIG1155    | 9' Cable and Torch                | —      | Std    |
| MIG1156    | Diffuser                          | Std    | Std    |
| MIG1157    | Teflon® Liner (for aluminum wire) | Opt    | Opt    |
| CKS8124700 | 6' Cable and Torch                | Std    | —      |

Std = Standard Opt = Optional

| Stock No.   | Description                     | MHG5A | MHG5B |
|-------------|---------------------------------|-------|-------|
| CKSM5C62    | Nozzle Cup                      | Std   | Std   |
| CKSM5NB     | Nozzle Body                     | Std   | Std   |
| CKSM5B      | Insulated Nozzle Bushing        | Std   | Std   |
| CKSM35NA62  | Nozzle Assembly                 | Std   | Std   |
| CKSM35D     | Gas Diffuser                    | Std   | Std   |
| CKSMGT2510  | Contact Tip (.025), 10 each     | Std   | Std   |
| CKSMGT3510  | Contact Tip (.035), 10 each     | Std   | Std   |
| CKSMGT36410 | Contact Tip (3/64), 10 each     | Opt   | Opt   |
| CKS404330   | Aluminum Wire (size .030), 1 lb | Opt   | Opt   |
| CKS404335   | Aluminum Wire (size .035), 1 lb | Std   | Std   |

Std = Standard Opt = Optional

## TIG Pack/Parts and Consumables

| Stock No.   | Description                       | CKSTP2125 | FLEXTIG25 | TIG130i | TIG150i | TIG255i |
|-------------|-----------------------------------|-----------|-----------|---------|---------|---------|
| CKS3C1165   | 1/16" Collet, 5 each              | Opt       | Std       | Std     | Std     | Std     |
| CKS3C3325   | 3/32" Collet, 5 each              | Std       | Std       | Std     | Std     | Std     |
| CKS3C4185   | 1/8" Collet, 5 each               | Std       | Opt       | Std     | Std     | Std     |
| CKSCB1162   | 1/16" Collet Body, 2 each         | Opt       | Std       | Std     | Std     | Std     |
| CKSCB3322   | 3/32" Collet Body, 2 each         | std       | std       | std     | std     | std     |
| CKS3CB4182  | 1/8" Collet Body, 2 each          | Std       | Opt       | Std     | Std     | Std     |
| CKS7T11610  | 1/16" Tungsten Electrode, 10 each | Opt       | Std       | Std     | Std     | Std     |
| CKS7T33210  | 3/32" Tungsten Electrode, 10 each | Std       | Std       | Std     | Std     | Std     |
| CKS7T41810  | 1/8" Tungsten Electrode, 10 each  | Std       | Opt       | Std     | Std     | Std     |
| CKS3A610    | 3/8" ID Cup, 10 each              | Std       | Std       | Std     | Std     | Std     |
| CKS3A710    | 7/16" ID Cup, 10 each             | Std       | Std       | Std     | Std     | Std     |
| CKS3A810    | 1/2" ID Cup, 10 each              | Std       | Std       | Std     | Std     | Std     |
| CKS300S     | Short Back Cap                    | Std       | Std       | Std     | Std     | Std     |
| CKS300L     | Long Back Cap                     | Std       | Std       | Opt     | Opt     | Opt     |
| CKSTIGSHARP | Chemical Tungsten Sharpener       | Opt       | Opt       | Opt     | Opt     | Opt     |

Std = Standard Opt = Optional



TIGINVFP



TIGINVRAD



TIG250EH

## Snap-on® Tig Welder Accessories and Consumables

| Stock No.    | Description                    | TIG130i | TIG150i | TIG255i |
|--------------|--------------------------------|---------|---------|---------|
| TIGINVFS     | Remote Foot Switch             | —       | Std     | Std     |
| CKSGRFM      | Flowmeter-Regulator            | Std     | Std     | Std     |
| TIG130GCA    | Ground Cable Complete          | Std     | —       | —       |
| TIG150GCA    | Ground Cable Assembly          | —       | Std     | —       |
| TIG250GCA    | Ground Cable Assembly          | —       | —       | Std     |
| TIG130TA     | Torch Assembly                 | Std     | —       | —       |
| TIG150TA     | Torch Assembly                 | —       | Std     | —       |
| TIG255TA     | Torch Assembly                 | —       | —       | Std     |
| CKSKITTIG250 | Consumable Kit                 | Std     | Std     | Std     |
| TIGINVRAD    | Clip-On Torch Amperage Control | —       | Opt     | Opt     |
| TIGINVFP     | Foot Pedal Amperage Control    | —       | Opt     | Opt     |
| TIG250EH     | Stick Electrode Holder         | —       | Opt     | Opt     |
| TIG250HC25   | Leather Cable Cover            | —       | Opt     | Opt     |
| TB60         | Tote Bag                       | Opt     | —       | —       |
| TIG130EH     | Stick Electrode Holder         | Opt     | —       | —       |

Std = Standard Opt = Optional  
TECHNICAL SUPPORT: 1-800-ABC-WELD

## Snap-on® Tig Welders

Common to TIG150i and TIG255i.

- Welding Process Versatility: select between AC TIG, DC TIG or Stick Electrode welding options
- AC or DC TIG Functionality: Choose between TIG modes for non-ferrous metals using AC TIG or for ferrous metals using DC TIG
- Amperage Control: fine adjustment range to weld extremely thin materials to maximum thicknesses

- TIG 2- or 4-stage continuous and pulse modes
- AC Balance Adjustment: penetration, balanced and cleaning
- Pulse and background amperage adjustments
- AC frequency adjustment
- Upslope/downslope as well as post as flow adjustment
- High-frequency/scratch starting modes



TIG130i



TIG150i



TIG255i

| Specifications            | TIG130i               | TIG150i     | TIG255i      |
|---------------------------|-----------------------|-------------|--------------|
| Torch                     | Gas Cooled            | Gas Cooled  | Water Cooled |
| Input Voltage, V AC       | 115/230               | 208/230     | 208/230      |
| Input Current, amps       | 15/20                 | 30          | 30           |
| Output Current, amps      | 10–110/10–130         | 5–150       | 5–220        |
| Duty Cycle                | 60% @ 80 A/60% @ 90 A | 60% @ 110 A | 100% @ 160 A |
| Torch Length, feet        | 12                    | 25          | 25           |
| Ground Cable Length, feet | 12                    | 25          | 25           |
| Power Cord Length, feet   | 8                     | 12          | 8            |
| Shipping Weight, lb (kg)  | 17 (8)                | 57 (26)     | 180 (82)     |

### TIG130i Portable TIG Welder

- Lightweight portable DC TIG welder is designed to join steel and stainless steel
- Amperage range of 10–130 A for a variety of welding applications
- Dual voltage input capability of 115–230 V
- Suitable for use with power-generating equipment
- Comes complete with a power supply, torch, ground cable, regulator and tote bag

### TIG150i TIG Welder

- Full-featured 150 A TIG welder that is ideal for everyday shop use

### TIG255i TIG Welder

- Full-featured 255 A TIG welder with a water-cooled torch for longer weld times, cooler operation and enhanced dexterity
- Ideal for production welding environments

## WELDING ACCESSORIES

### Welding Apparel



WELDGLOVE

#### WELDGLOVE Graphic Welding Gloves

- 1 pc leather
- Full lining protects hands from excessive heat, spatter and sparks
- Soft cotton interior for extra comfort
- AB-grade leather material is tough enough to handle rugged jobs
- Extended cuff shields the wrist when welding and protects against extreme temperatures



WELDCAP

#### WELDCAP Welding Cap

- Made from flame-retardant material
- Resists sparks and absorbs perspiration
- Material conforms to ASTM D6413-13b test method
- Proprietary ink injection process helps to keep silk-screened graphics from peeling and flaking



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

## WELDING ACCESSORIES

### Welding Apparel



YA427B

#### YA427B Welding Gloves (Blue-Point®)

- Help protect hands from sparks when welding
- Leather construction with added insulation for heat protection
- Reinforced palm for durability



YA4282



YA4280

#### YA4280 Welding Sleeves (Blue-Point®)

- Help protect arms from sparks when welding or cutting
- Elastic bands at each end of the sleeve
- Constructed of flame-retardant fabric

#### YA4282 TIG Welding Gloves (Blue-Point®)

- Ideal for TIG welding processes
- Pigskin material for precise control
- Help protect hands from heat and sparks
- Thick leather cuff for wrist protection



WELDJACKETL

#### WELDJACKETL Skull Welding Jacket (Large)

- Made from high-tensile strength cotton, FR conforms to the ASTM D6413-13b test method to ensure a satisfactory standard for vertical flame resistance, after flame, after glow and self-extinguishing
- 12 oz black flame-retardant material with dielectric snaps, high-reach collar, and 1" of extra length in the waist for a safer, premium fit
- Retains flame-retardant properties for up to 50 home washings or 25 commercial washings
- Amazing graphics are impregnated directly into the fire-resistant material for longevity

#### WELDJACKETXL Skull Welding Jacket (Extra Large)

#### WELDJACKETXX Skull Welding Jacket (XX-Large)



WELDGOGLEKT



WELDGOGLEKT1



WELDGOGLEKT2



WELDGOGLEKT3



WELDGOGLEKT4



WELDGOGLEKT5

### Welding Goggles

#### WELDGOGLEKT Auto-Darkening Goggles Kit

- For MIG/TIG/ARC/plasma oxy cutting and grinding applications
- Ideal for confined workspace and mobile welding
- Bump cap for head protection
- Fire-retardant hood for protection
- Soft silicon-lined goggles for user comfort
- Detachable mask

#### WELDGOGLEKT1 Auto-Darkening Welding Goggles

- For MIG/TIG/ARC/plasma oxy cutting and grinding applications
- Ideal for confined workspace and mobile welding
- Soft silicon-lined goggles for user comfort
- For use with WELDGOGLEKT2 Fire-Retardant Hood, WELDGOGLEKT3 Bump Cap and WELDGOGLEKT5 Protective Shield

#### WELDGOGLEKT2 Fire-Retardant Hood

- Fire-retardant hood for protection during MIG/TIG/ARC/plasma oxy cutting and grinding applications
- Ideal for confined workspace and mobile welding

#### WELDGOGLEKT3 Bump Cap

- Bump cap for head protection during MIG/TIG/ARC/plasma oxy cutting and grinding applications

#### WELDGOGLEKT4 Auto-Filter Carry Bag

- Drawstring closure

#### WELDGOGLEKT5 Protective Shield

- Detachable mask for WELDGOGLEKT1
- For MIG/TIG/ARC/plasma oxy cutting and grinding applications
- Ideal for confined workspace and mobile welding



**PLASMA20i**



**PLASMA30i**



**PLASMA60i**

**Inverter-style Plasma Cutters**

- Depth-of-cut adjustability—for applications such as panel removal around spot welds—adjusts cut-depth to the top layer of material without disturbing the base layer

| Specifications                    | PLASMA20i          | PLASMA30i                 | PLASMA60i              |
|-----------------------------------|--------------------|---------------------------|------------------------|
| Output Current, amps              | 5–20               | 5–25                      | 20–55                  |
| Cut Thickness, inches             | 1/4                | 3/8                       | 3/4                    |
| Sever Thickness, inches           | 3/8                | 1/2                       | 1                      |
| Primary Input, volts              | 115 V AC, 50/60 Hz | 115 or 230 V AC, 50/60 Hz | 208/230 V AC, 50/60 Hz |
| Primary Input, amps               | 20                 | 30 A 115 V or 20 A 230 V  | 40 A                   |
| Duty Cycle Rating                 | 100% @ 15 A        | 100% @ 19 A               | 100% @ 30 A            |
| Compressed Air Requirements (min) | 50 PSI @ 5 CFM     | 50 PSI @ 7 CFM            | 68 PSI @ 7 CFM         |
| Torch Cable Length, feet          | 12                 | 12                        | 18                     |
| Ground Cable Length, feet         | 12                 | 12                        | 18                     |
| Net Weight, lb (kg)               | 22 (10)            | 29 (13)                   | 44 (20)                |

**PLASMA20i 20 A Plasma Arc Cutting Machine**

- Perfect for the shop or on the jobsite, it features a small-yet-powerful package size that allows for portability in a variety of situations
- Ideal for cutting a variety of ferrous, non-ferrous and high-strength materials
- Cuts a maximum of 1/4" and will sever up to 3/8"
- Adjustable amperage range—from 5–20 A—provides the ability to minimize distortion on thinner materials
- Accepts 115 V input power supply voltage at minimum current requirements
- Contains an air filter and pressure regulator to allow for either a compressed air or nitrogen air supply
- Technical support and service: 800-ABC-WELD

**PLASMA30i Plasma Cutter**

- Inverter technology features a small-yet-powerful package size that allows for portability in a variety of situations in the shop or on the jobsite
- Cuts a maximum of 3/8" and will sever up to 1/2"
- Adjustable amperage range—from 5–25 A—provides the ability to minimize distortion on thinner materials
- Material capability ideal for cutting a variety of ferrous, non-ferrous and high-strength material
- Pilot self-restart function provides the ability to cut perforated, grid or expanded metal applications
- Air supply system contains an air filter and pressure regulator to allow for either a compressed air or nitrogen air supply
- Protection LED warning system for low air pressure, high temperatures and system blockages
- Input voltage versatility automatically accepts 115 or 230 V input power supply voltages at minimum current requirements
- Ideal for automotive repair, collision repair, heavy-duty truck, farm and metal fabrication shops
- Comes complete with a power supply, torch assembly, ground cable and spare torch consumables

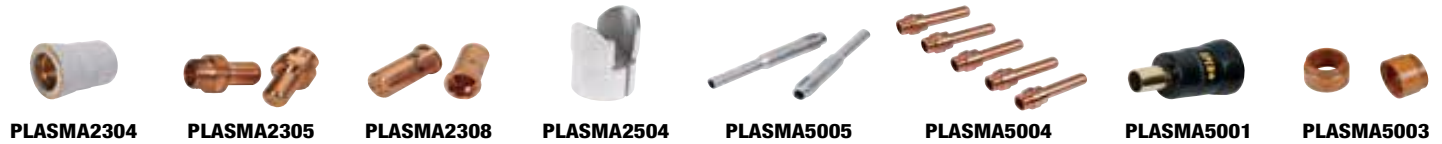
**PLASMA60i Plasma Cutter**

- Cutting capacity cuts a maximum of 3/4" and severs up to 1"
- Input voltage versatility accepts 208 V or 230 V input power supply voltages at minimum current requirements



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

## PLASMA CUTTERS CONSUMABLES



### Standard-Duty Plasma Cutter Consumables

| Description                  | PLASMA115    | PLASMA230   | PLASMA25    | PLASMA50    | PLASMA20i   | PLASMA30i   | PLASMA60i   |
|------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Complete Torch Assembly      | PLASMA1153   | PLASMA23010 | PLASMA2503  | PLASMA5007  | PLASMA2007  | PLASMA3007  | PLASMA5007  |
| Metal Diffuser               | —            | —           | PLASMA5005* | PLASMA5005* | —           | —           | PLASMA5005* |
| Short Nozzle (1 mm), 30–35 A | PLASMA2301†  | PLASMA2301† | —           | —           | —           | —           | —           |
| Electrode                    | PLASMA1151†  | PLASMA2305† | PLASMA5004† | PLASMA5004† | PLASMA2004† | PLASMA3004  | PLASMA5004† |
| Long Electrode               | PLASMA1152*  | PLASMA2307† | —           | —           | —           | —           | —           |
| Nozzle (0.7 mm)              | —            | —           | —           | —           | PLASMA2002† | PLASMA3002† | —           |
| Nozzle (1.1 mm), 55A         | —            | —           | PLASMA5002† | PLASMA5002† | —           | —           | PLASMA5002† |
| Long Nozzle (0.9 mm), 35 A   | PLASMA2308†  | PLASMA2308† | —           | —           | —           | —           | —           |
| Long Nozzle (1 mm), 35–50 A  | PLASMA2302** | —           | —           | —           | —           | —           | —           |
| Nozzle Holder                | PLASMA2304   | PLASMA2304  | PLASMA5001  | PLASMA5001  | PLASMA2001  | PLASMA3001  | PLASMA5001  |
| Spacer Spring                | —            | PLASMA2309† | —           | —           | —           | —           | —           |
| Swirl Ring                   | PLASMA23031  | PLASMA23031 | PLASMA5003* | PLASMA5003* | PLASMA2003* | PLASMA3003* | PLASMA5003* |
| Torch Head Body              | —            | PLASMA23011 | PLASMA5006  | PLASMA5006  | PLASMA2006  | PLASMA3006  | PLASMA5006  |
| Two Point Spacer             | —            | —           | PLASMA2504  | PLASMA2504  | —           | —           | PLASMA2504  |

(1) each per package unless otherwise noted.

\*(2) each per package

\*\* (3) each per package

† (5) each per package

## GAS WELDING



### Gas Welding

- Use for auto repair, construction, fabrication, manufacturing and maintenance
- Forged-brass regulator is durable and strong
- 2-1/4" dia. regulator allows precise control of gas
- Internal filter keeps particles from entering regulator
- PTFE Teflon® seal for positive sealing
- Handle shut-off valve is color-coded to easily identify gas type
- Two-piece cutting tip is easier to clean
- High-quality hose offers increased tear-resistance and flexibility

Set Contains: WE200A† WE250A†

| Stock No.    | Description                       | WE200A† | WE250A† |
|--------------|-----------------------------------|---------|---------|
| HRC9100614 † | D-85 Weld Mixer                   | Std     | Std     |
| HRC4300499 † | Twin Hose                         | Std     | Std     |
| HRC4304482 † | Cover Goggle                      | Std     | Std     |
| HRC9004486 † | Striker                           | Std     | Std     |
| WE200A1 †    | Oxygen Regulator (Blue-Point®)    | Std     | —       |
| WE200A2 †    | Acetylene Regulator (Blue-Point®) | Std     | —       |
| WE250A1 †    | Oxygen Regulator (Blue-Point®)    | —       | Std     |
| WE250A2 †    | Acetylene Regulator (Blue-Point®) | —       | Std     |
| HRC1502172 † | 6290-1 #1 AC Cut Tip              | Std     | Std     |

Std = Standard Opt = Optional

### Optional Accessories

#### HRC4302202 † Torch Flash Arrestor (Pair)

#### WE200A † Standard-Duty Welding Kit (Blue-Point®)

- Used for auto repair, construction, fabrication, manufacturing and maintenance
- Cuts up to 1" and welds up to 1/8"
- Cuts up to 4" and welds up to 1/2" with optional tips
- Forged brass regulator—durable and strong
- 2-1/4" dia. regulator—allows for precise control of gas
- Internal filter keeps particles from entering the regulator
- PTFE Teflon® seal for positive sealing
- Color-coding on the handle shut-off allows for easy identification of the corresponding gas control
- Two-piece cutting tip is easier to clean
- High-quality hose offers increased tear-resistance and flexibility

#### WE250A † Medium-Duty Welding Kit (Blue-Point®)

- Used for auto repair, construction, fabrication, manufacturing and maintenance
- Cuts up to 1" and welds up to 1/8"
- Cuts up to 5" and welds up to 1/2" with optional tips
- Forged brass regulator—durable and strong
- 2-1/4" dia. regulator allows for precise control of gas
- Internal filter keeps particles from entering the regulator
- PTFE Teflon® seal for positive sealing
- Color-coding on the handle shut-off allows for easy identification of the corresponding gas control
- Two-piece cutting tip is easier to clean
- High-quality hose offers increased tear-resistance and flexibility

**Butane Soldering Iron Kit (YAKS22A)**

- Versatile and compact professional soldering iron kits feature an ultrasonically welded gas tank for increased strength, safety and reliability; made with butane-compatible plastics to prevent gas from leaking
- Kits include (5) soldering tips, (1) hot knife and (1) air deflector
- Convert to a heat shrink tool and hot knife with the addition of interchangeable tips

**YAKS22A ‡ Butane Soldering Iron Kit (15–75 W)**

- Convenient storage/carry case that includes (7) multi-use tips: (5) soldering, (1) hot knife and (1) air deflector
- Useful in standard soldering, plastic cutting and heat shrink tubing applications
- Includes a 15–75 W soldering iron

**YAS22A ‡ Gas Soldering Auto-Ignition Tool (15–75 W)**

- Stand-alone soldering tool
- Ultrasonically welded gas tank for increased strength, safety and reliability
- Made with butane-compatible plastics to prevent gas leakage or early expiration
- Push-button electronic ignitor
- Short distance from tip to grip gets the user closer to the work
- ESD safe (antistatic)



YAKS22A



YAS22A

| Stock No. | Description                      | Size, inches (mm) |
|-----------|----------------------------------|-------------------|
| YAKS221   | Single Flat Solder Tip           | 1/32 (1.0)        |
| YAKS222   | Single Flat Solder Tip           | 3/32 (2.4)        |
| YAKS223   | Single Flat Solder Tip           | 1/8 (3.2)         |
| YAKS224   | Single Flat Solder Tip           | 3/16 (4.8)        |
| YAKS225   | Double Flat Solder Tip           | 1/32 (1.0)        |
| YAKS226   | Double Flat Solder Tip           | 3/32 (2.4)        |
| YAKS227   | Double Flat Solder Tip           | 1/8 (3.2)         |
| YAKS228   | Double Flat Solder Tip           | 3/16 (4.8)        |
| YAKS229   | Hot Air Blower Tip               | —                 |
| YAKS2210  | Hot Knife Tip                    | —                 |
| YAKS2211  | Hot Air Blower Deflector         | —                 |
| YAKS2212  | Flame Tip                        | —                 |
| YAKS2213  | Hot Air Blower and Deflector Tip | —                 |
| YAKS2214  | Instruction Sheet                | —                 |
| YAKS2215  | Carrying Case                    | —                 |



YAKS42

**YAKS42 ‡ Butane Gas Soldering Iron Kit (25–130 W)**

- Includes attachments for soldering, hot air, hot knife and plastic welding
- All-in-one ignition switch with one-hand ignition operation
- Catalytic heater does not produce an open flame and heats up quickly
- Fuel adjustment knob provides quick temperature adjustment and is conveniently located in the back of the handle
- Quick-release connector allows for quick accessory tip changeover without waiting for the tip to cool
- Magnetic stand is integrated into the bottom of tool and allows for vertical storage on side of the toolbox
- Fuel gauge window on both sides of the handle
- Cap safely shuts off the unit and protects the tip from accidental contact
- Soldering tips are iron and nickel plated with ceramic-coated metal catalyst and finished with a solder dip
- Unique storage solution neatly holds the torch, solder tube and accessories

**Butane Soldering Iron Kit (YAKS42) Set Contains:**

| Stock No.   | Description                                 |     |
|-------------|---|-----|
| YAS42       | Soldering Iron and Cap                      | •   |
| YAS42-1     | Quick-Release Connector                     | •   |
| YAS42-6     | 1/32" Double Flat Soldering Tip             | •   |
| YAS42-7     | 3/32" Double Flat Soldering Tip             | Opt |
| YAS42-8     | 1/8" Double Flat Soldering Tip              | Opt |
| YAS42-9     | 3/16" Double Flat Soldering Tip             | •   |
| YAS42-10    | Hot Air Tip                                 | •   |
| YAS42-11    | Plastic Welding Tip                         | •   |
| YAS42-12    | Solder Tray and Sponge                      | •   |
| YAS42-13    | Soldering Tube                              | •   |
| YAS42-15    | Storage Solution                            | •   |
| YAS42-26    | Hot Knife                                   | •   |
| YAS42-16    | Universal Plastic Repair Rods (22 pack)     | Opt |
| YAS42-17    | Brass Cleaning Brush                        | Opt |
| YAS42-18    | Cleaning Piston                             | Opt |
| YAS42-19    | Reinforcement Mesh                          | Opt |
| YAS42-20    | ABS Natural Plastic Repair Rods (22 pack)   | Opt |
| YAS42-21    | ABS Black Plastic Repair Rods (22 pack)     | Opt |
| YAS42-22    | Polypropylene Plastic Repair Rods (22 pack) | Opt |
| YAS42-23    | Polyethylene Plastic Repair Rods (22 pack)  | Opt |
| YAS42-24    | Polystyrene Plastic Repair Rods (22 pack)   | Opt |
| YAS42-25    | Universal Plastic Repair Rods (7 pack)      | Opt |
| YAS42-CMBPK | Assorted Plastic Repair Rods (132 each)     | Opt |
| YAS42-STRPK | Assorted Plastic Repair Rods (42 each)      | Opt |

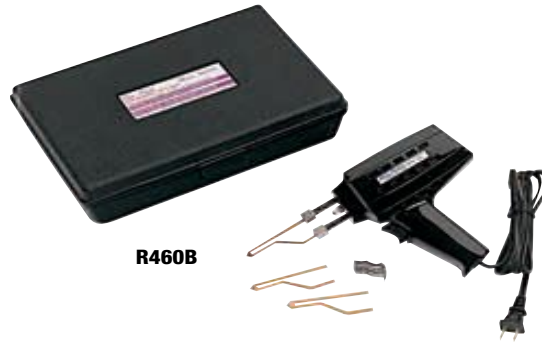


- Do not store butane at temperature over 120 °F
- Transport and dispose of butane in accordance with all regulations
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## SOLDERING



R450B



R460B



R490



R490400



R490500

## Guns

**R450B Soldering Gun Kit**

- Three different tip and element configurations give this tool great flexibility—from delicate soldering to larger heavy-duty applications, such as automotive maintenance
- Slim single-post design is ideal for confined work areas
- Fast heat up
- Built-in spotlight to illuminate the work area
- Integral tool stand keeps the heated part of the tool out of harm's way
- Polarized plug and professional quality
- Includes a storage case
- UL® listed

**R460B † Heavy-Duty Soldering Gun Kit (Blue-Point®)**

- Heavy-duty soldering gun makes big jobs, quick and efficient
- Built-in spotlight illuminates the work area
- Balanced tool design is more comfortable and easier to use
- Tip heats up in less than ten seconds
- Quick-change-type tips can be easily changed in under 30 seconds
- Integral tool stand keeps heated part of the tool from damaging surrounding areas
- Packed in a plastic storage case
- UL® listed

**R490 † Industrial Soldering Gun (Blue-Point®)**

- Dual wattage elements: high wattage heats tip in seconds, lower wattage maintains rated tip temperature
- Effective tip temperature of 1,000 °F or more for heavy-duty, sustaining soldering
- Trigger-activated control is convenient, easy-to-use and provides instant response
- Built-in worklight illuminates the work area
- Plug-in tip and element (TE) assemblies are plug-in units that can be changed within a minute
- Integral tool stand prevents heated part of the tool from damaging surrounding areas
- Plastic storage case
- UL® listed

**R490400 † Replacement Soldering Tip**

- 150/400 W 1/4" replacement tip for the R490 Industrial Soldering Gun

**R490500 † Optional Soldering Tip**

- 330/550 W 1/2" optional replacement tip for the R490 Industrial Soldering Gun



R25A



R40B

## Irons

**R25A † Industrial Soldering Kit**

- Lightweight 25 W pencil-style kit for fine soldering applications
- Threaded tips offer improved heat exchange
- Features a heat deflection shield, 4-3/4" long handle, 8-1/2" overall length and 8' power cord
- Includes pointed, chisel, fine tips, 1/2 oz of lead-free rosin core solder and holder
- UL® listed
- 120 V, 60 Hz

**R40B † Industrial Soldering Kit**

- 40 W solder iron is ideal for large solder jobs like battery terminal cables or radiator repair
- Threaded tips offer improved heat exchange compared to set screw types
- Features a heat deflection shield, 4-3/4" long handle, 8-1/2" overall length and 8' power cord
- Includes pointed, chisel, fine tips, 1/2 oz of lead-free rosin core solder and holder
- UL® listed
- 120 V, 60 Hz



## Butane Heating Torches

- One-hand design and operation for maximum flexibility
- Ultrasonically welded gas tank in combination with a robust burner head—made of stainless steel and ceramic materials—provides unmatched durability
- Ergonomic rubberized grip conforms to the hand
- Twin-spark ignition ensures that torch lights the first time, every time
- Powerful multi-directional flame can be utilized upside down and in windy conditions
- Self-venting filling valve for fast refueling

### TORCH300 Butane Gas Torch

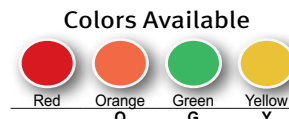
- Easily adjustable flame length—up to 3-1/2"

### TORCH400 High-Power Butane Gas Torch

- Easily adjustable flame length—up to 4-1/2"

### TORCH2A ‡ Turbo Torch (Blue-Point®)

- Piezo ignition system
- Instant 1,300 °C/2,400 °F micro flame
- Pocket size
- Internal fuel tank
- 20 minutes of continuous use per refilling



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## SOLDERING ACCESSORIES

## Butane Fuel Cans

### BUTANE15CSA Butane Fuel (Blue-Point®)

- Triple-filtered butane fuel for use with TORCH2A, TORCH3A, TORCH4 and TORCH6 mini torches; YAKS300, YAKS32A, YAKS42 and YAKS22A soldering irons; GLUEGUN3 and GLUEGUN4KT glue guns
- Universal filling tip can be used with most refillable butane products, as well
- Case of (24) 1.5 oz cans



TZK5

## Tweezers

### TZK5 5 pc Tweezers Set (Blue-Point®)

- Includes (5) tweezers in a vinyl zipper pouch
- All stainless steel construction
- Pointed tweezers with plain ends, 4-3/8" long
- Self-closing tweezers with plain ends, 4-1/2" long
- Self-closing, weighted solder tweezers with serrated blunt end, 7" long
- Sharp-point utility tweezers with bent plain ends, 7" long



TZK7

### TZK7 7 pc Tweezers Set (Blue-Point®)

- Includes (7) tweezers in a black vinyl zipper pouch
- All stainless steel construction
- Pointed tweezers, 4-3/8" long
- Curved-head utility tweezers, 6-3/4" long
- Self-closing, heat-resistant tweezers, 6" long
- Sharp, pointed utility tweezers, 7" long
- Side locking tweezers, 6" long
- Spade-point tweezers, 4-3/8" long
- Weighted solder tweezers, 6" long



BUTANE15CSA



- Do not store butane at temperature over 120 °F
- Transport and dispose of butane in accordance with all regulations
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## SOLDERING ACCESSORIES



YA476A



YA477A



MPC7A



MPS7A



MPK4A

### Solder Suckers

#### YA476A Small Solder Sucker (Blue-Point®)

- Low-static, small-capacity unit is designed for standard desoldering applications
- Set plunger and release creates a vacuum that draws up solder
- Includes a self-cleaning feature

#### YA476-1A Replacement Tip (Blue-Point®)

- Replacement tip for YA476A small solder sucker

#### YA477A ‡ Solder Sucker (Blue-Point®)

- Low-static unit is designed for desoldering electrostatic discharge sensitive components
- Set plunger and release creates a vacuum that draws up solder

#### YA477-1 Replacement Tip

- Replacement tip for YA477A

### Miniature Tools/Pliers

- Stainless steel, three-notch ratcheting mechanisms lock onto small objects with varying degrees of pressure
- Tips measure 1/16", long jaws measure 1-3/8"

#### MPC10A 10" Curved Jaw Mini-Pliers (Blue-Point®)

- Curved serrated jaws
- 10" long

#### MPC7A Mini-Pliers (Blue-Point®)

- Curved serrated jaws
- 7" long

#### MPK4A 4 pc Mini-Pliers Set (Blue-Point®)

- MPC7A and MPC10A, plus MPS7A and MPS10A in a black zipper pouch

#### MPS10A Mini-Pliers (Blue-Point®)

- Straight serrated jaws
- 10" long

#### MPS7A Mini-Pliers (Blue-Point®)

- Straight serrated jaws
- 7" long

## WELDING STORAGE



KRBC60T



KRBC60TEXT



MIGCARTC

### Welding Storage

#### KRBC60T Welding Workstation Cart

- 3/8" steel-plate work surface
- Four dual-purpose mounting locations serve as accessory mounts and wand holder
- HD textured black matte finish
- Large locking compartment stores two welders
- Slots-N-Dots™ rear panel accommodates many accessories
- Three drawers with liners and high-quality roller bearing slides
- Three large cord hooks included; extra hook kits available
- 50-3/4" W x 25-3/4" D x 37-1/2" H
- 1,000 lb load capacity

#### KRBC60TEXT Welding Cart Side Cabinet

- Mounts directly to the current KRBC60T Welding Cart
- Creates 50% additional steel work surface (500 in<sup>2</sup>)
- Slots-N-Dots™ rear and side panels for mounting additional accessories
- Cord slot in back for better organization of cords and plugs
- 25 x 15 x 25" storage compartment; perfect for adding a Plasma Cutter
- 4" drawer; 24.5 x 15.6 x 4.1" overall size

#### MIGCARTC Welding/Plasma Cart with Single Tank Storage

- Stores MIG/TIG Welders and Plasma Cutters, along with accessories and consumables
- Sturdy design has a total weight limit of 165 lb
- Multiple cord hooks provide storage
- Stores a single cylinder of shielding gas

#### MIGCARTDLA Dual Machine Welding Cart with Storage for Two Gas Cylinders

- Stores MIG/TIG Welders and Plasma Cutters, along with accessories and consumables
- Top shelf is extra wide to allow for storage of two machines side by side
- Sturdy design has a total weight limit of 350 lb
- Drawer holds smaller accessories and consumables
- Top shelf is 25.9 x 19.9"
- Stores two cylinders of shielding gas with a maximum of 7" diameter

## Welding Helmets, Auto-Darkening

Auto-darkening welding helmets are triggered automatically by UV light sources. Some models have adjustable sensitivity for various light conditions and an adjustable delay setting to maintain a dark state for extended periods of time. Fixed shade helmets offer a fixed #10 shade that is triggered automatically by UV light. Clear shade provides the operator visibility to line up work prior to welding.



EFPGREENSKL



EFPBLACKICE



EFP2MORBID



EFP2WFLAME



EFP2BSTRIFE

| Specifications                | EFPGREENSKL                         | EFPBLACKICE                         | EFP2MORBID                          | EFP2WFLAME                          | EFP2BSTRIFE                         |
|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Shade                         | #9-13                               | #9-13                               | #9-13                               | #9-13                               | #9-13                               |
| Sensitivity                   | Yes                                 | Yes                                 | Yes                                 | Yes                                 | Yes                                 |
| Delay                         | Yes                                 | Yes                                 | Yes                                 | Yes                                 | Yes                                 |
| Clear Shade                   | 4                                   | 4                                   | 4                                   | 4                                   | 4                                   |
| Viewing Area, inches          | 3.62 x 1.42                         | 3.62 x 1.42                         | 3.82 x 2.36                         | 3.94 x 2.36                         | 3.94 x 2.36                         |
| Viewing Area, in <sup>2</sup> | 23                                  | 35.6                                | 40                                  | 9.32                                | 9.32                                |
| Number of Sensors             | 2                                   | 2                                   | 4                                   | 4                                   | 4                                   |
| Delay Time(s)                 | Adjustable                          | Adjustable                          | Adjustable                          | Adjustable                          | Adjustable                          |
| Switching Speed, ms           | .3                                  | .3                                  | .08                                 | .08                                 | .08                                 |
| Power Supply                  | CR2450 Replaceable                  | CR2450 Replaceable                  | Lithium-Ion (auto on/off)           | Lithium-Ion (auto on/off)           | Lithium-Ion (auto on/off)           |
| Applicable Standards          | CE, CSA®, ANSI®                     | CE, CSA®, ANSI®                     | CE, CSA®, ANSI®                     | CE, CSA®, ANSI®                     | CE, CSA®, ANSI®                     |
| Optional Magnifying Lens      | 1.0, 1.5, 2.0, 2.5                  | 1.0, 1.5, 2.0, 2.5                  | 1.0, 1.5, 2.0, 2.5                  | 1.0, 1.5, 2.0, 2.5                  | 1.0, 1.5, 2.0, 2.5                  |
| Warranty                      | 2 Year (ADF)<br>1 Year (all others) | 2 Year (ADF)<br>1 Year (all others) | 2 Year (ADF)<br>1 Year (all others) | 2 Year (ADF)<br>1 Year (all others) | 2 Year (ADF)<br>1 Year (all others) |



YA4606



YA4608



YA4609



YA4610



YA4601



YA4615

## Welding Helmets, Auto-Darkening

| Specifications                | YA4606   | YA4608   | YA4609   | YA4610   | YA4601                              | YA4615   |
|-------------------------------|--|--|--|--|-------------------------------------|--|
| Shade                         | Auto-Darkening<br>5-8/9-13   | Auto-Darkening<br>5-8/9-13 Digital<br>Controls                         | Auto-Darkening<br>5-8/9-13   | Auto-Darkening<br>#9-13 External<br>Control                | Auto-Darkening<br>#9-13             | Auto-Darkening<br>#9-13 External<br>Control                |
| Sensitivity                   | Adjustable Knob  | Digital Adjustment   | Adjustable Knob  | Adjustable Knob  | Adjustable                          | Adjustable Knob  |
| Delay                         | Adjustable Knob  | Digital Adjustment   | Adjustable Knob  | Adjustable Knob  | Adjustable                          | Adjustable Knob  |
| Clear Shade                   | #3.5   | #3.5   | #3.5   | #3.5   | #3.5                                | #3.5   |
| Viewing Area, inches          | 3.74 x 3.35  | 3.82 x 2.44  | 3.74 x 3.35  | 3.86 x 1.73  | 3.81 x 2.40                         | 3.86 x 1.73  |
| Viewing Area, in <sup>2</sup> | 12.53  | 9.32   | 12.53  | 9.14   | 9.14                                | 9.14   |
| Number of Sensors             | 4  | 4  | 4  | 2  | 4                                   | 2  |
| Delay Time(s)                 | 0.1-1.0  | 0.1-1.0  | 0.1-1.0  | 0.1-1.0  | 0.2-1.0                             | 0.1-1.0  |
| Switching Speed (ms)          | 1/25,000   | 1/25,000   | 1/25,000   | 1/16,000   | 0.04                                | 1/16,000   |
| Power Supply                  | Solar Cell, Battery,<br>Replaceable<br>(2 x CR2450 lithium<br>batteries) | Solar Cell, Battery,<br>Replaceable<br>(1 x CR2450 lithium<br>battery) | Solar Cell, Battery,<br>Replaceable<br>(1 x CR2450 lithium<br>battery) | Solar Cell + Battery,<br>Replaceable<br>(2 x AAA Alkaline) | Solar-Lithium                       | Solar Cell + Battery,<br>Replaceable<br>(2 x AAA Alkaline) |
| Applicable Standards          | ANSI®, CE, CSA®  | ANSI®, CE, CSA®  | ANSI®, CE, CSA®  | ANSI®, CE, CSA®  | ANSI®, CE, DIN,<br>EN, CSA®, AS/NZS | ANSI®, CE, CSA®  |
| Optional Magnifying Lens      | YA4600MAGKT  | YA4600MAGKT  | YA4600MAGKT  | YA4600MAGKT  | YA4600MAGKT                         | YA4600MAGKT  |
| Warranty                      | 2 Year   | 3 Year   | 2 Year   | 1 Year   | 2 Year                              | 1 Year   |



- Do not store butane at temperature over 120 °F
- Transport and dispose of butane in accordance with all regulations
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## WELDING HELMETS



YA4611



YA4612



YA4613



YA4614

### Welding Helmets, Auto-Darkening

| Specifications                | YA4611  | YA4612  | YA4613  | YA4614  |
|-------------------------------|---|---|---|---|
| Shade                         | Auto-Darkening<br>5-8/9-13 Digital Controls                         | Auto-Darkening<br>5-8/9-13  | Auto-Darkening<br>5-8/9-13  | Auto-Darkening<br>5-8/9-13  |
| Sensitivity                   | Digital Adjustment  | Adjustable Knob   | Adjustable Knob   | Adjustable Knob   |
| Delay                         | Digital Adjustment  | Adjustable Knob   | Adjustable Knob   | Adjustable Knob   |
| Clear Shade                   | #3.5  | #3.5  | #3.5  | #3.5  |
| Viewing Area, inches          | 3.81 x 2.40   | 3.74 x 3.35   | 3.74 x 3.35   | 3.74 x 3.35   |
| Viewing Area, in <sup>2</sup> | 9.32  | 12.53   | 12.53   | 12.53   |
| Number of Sensors             | 4   | 4   | 4   | 4   |
| Delay Time(s)                 | 1/25,000  | 0.1-1.0   | 0.1-1.0   | 0.1-1.0   |
| Switching Speed (ms)          | 0.1-1.0   | 1/25,000  | 1/25,000  | 1/25,000  |
| Power Supply                  | Solar Cell, Battery,<br>Replaceable<br>(1 x CR2450 lithium battery) | Solar Cell, Battery,<br>Replaceable<br>(1 x CR2450 lithium battery) | Solar Cell, Battery,<br>Replaceable<br>(1 x CR2450 lithium battery) | Solar Cell, Battery,<br>Replaceable<br>(1 x CR2450 lithium battery) |
| Applicable Standards          | ANSI®, CE, CSA®   | ANSI®, CE, CSA® Approval  | ANSI®, CE, CSA® Approval  | ANSI®, CE, CSA® Approval  |
| Optional Magnifying Lens      | <b>YA4600MAGKT</b>  | <b>YA4600MAGKT</b>  | <b>YA4600MAGKT</b>  | <b>YA4600MAGKT</b>  |
| Warranty                      | 3 Year  | 2 Year  | 2 Year  | 2   |

### Welding Helmets, Fixed Shade

- Made of nylon material
- Helmet is much more flexible to get into tighter spaces
- Additional 1-1/4" of material on the top of the helmet for more coverage

- Cooler for the user as it will not heat up as much as an ABS version
- Lighter weight and much more resistant to heat
- CE—English only



EFPBONEHEDB



EFPDISORDER



EFPKULLMIX



EFPHANNIBALB



YA4605

| Specifications                | EFPBONEHEDB   | EFPDISORDER   | EFPKULLMIX  | EFPHANNIBALB  | YA4605          |
|-------------------------------|---|---|---|---|-----------------|
| Lens Style                    | 180° Peripheral   | 180° Peripheral   | 180° Peripheral   | 180° Peripheral                                     | —               |
| Shade                         | #10   | #10   | #10   | #10   | Fixed Shade     |
| Viewing Area, in <sup>2</sup> | 35.6  | 35.6  | 35.6  | 8.5   | 9.14            |
| Applicable Standards          | ANSI®   | ANSI®   | ANSI®   | ANSI®   | ANSI®, CE, CSA® |
| Lens (included)               | EFPCLLENSREP  | EFPCLLENSREP  | EFPCLLENSREP  | EFP10WLDLENS,<br>EFPCLLENSREP                       | #10             |
| Opt. Magnifying Lens 1.0x     | EFPADFCCHTR10   | EFPADFCCHTR10   | EFPADFCCHTR10   | EFPADFCCHTR10                                       | N/A             |
| Opt. Magnifying Lens 1.5x     | EFPADFCCHTR15   | EFPADFCCHTR15   | EFPADFCCHTR15   | —   | YA4600MAGKT     |
| Opt. Magnifying Lens 2.0x     | EFPADFCCHTR20   | EFPADFCCHTR20   | EFPADFCCHTR20   | EFPADFCCHTR20                                       | YA4600MAGKT     |
| Opt. Magnifying Lens 2.5x     | EFPADFCCHTR25   | EFPADFCCHTR25   | EFPADFCCHTR25   | —   | N/A             |
| Opt. Auto Darkening Lens      | EFPADFLENSA   | EFPADFLENSA   | EFPADFLENSA   | EFPADFLENSA   |                 |
| Shield Included               | Clear and #10 Welding   | Clear and #10 Welding   | Clear and #10 Welding   | Clear and #10 Welding                               | N/A             |
| Warranty                      | 1 Year  | 1 Year  | 1 Year  | 1 Year  | 1 Year          |
| Replacement Shields           | EFPCLLENSREP (Clear);<br>EFP3WLDLENS (#3 Welding);<br>EFP5WLDLENS (#5 Welding);<br>EFP8WLDLENS (#8 Welding);<br>EFP10WLDLENS (#10 Welding);<br>EFP12WLDLENS (#12 Welding) | EFPCLLENSREP (Clear);<br>EFP3WLDLENS (#3 Welding);<br>EFP5WLDLENS (#5 Welding);<br>EFP8WLDLENS (#8 Welding);<br>EFP10WLDLENS (#10 Welding);<br>EFP12WLDLENS (#12 Welding) | EFPCLLENSREP (Clear);<br>EFP3WLDLENS (#3 Welding);<br>EFP5WLDLENS (#5 Welding);<br>EFP8WLDLENS (#8 Welding);<br>EFP10WLDLENS (#10 Welding);<br>EFP12WLDLENS (#12 Welding) | EFPCLLENSREP (Clear);<br>EFP10WLDLENS (#10 Welding) | YA4605-3        |

## EFP Series Welding Lenses

Optional and auto-darkening lenses are available for all EFP series helmets.

### EFPADFLENSA Auto-Darkening Lens

- The world's first and only unobstructed ADF-integrated 180° peripheral vision ADF welding lens
- Has a military-grade anti-scratch coating
- ADF lens is easily replaceable
- 4-1/4 x 2" viewing area
- Solar-lithium combo power supply
- One year warranty

### EFP3WLDLENS #3 Welding Lens

### EFP5WLDLENS #5 Welding Lens

### EFP8WLDLENS #8 Welding Lens

### EFP10WLDLENS #10 Welding Lens

### EFP12WLDLENS #12 Welding Lens

### EFPCLLENSREP EFP Clear Lens Replacement

### EFPADFCSTR10 Cheater Lens with 1.0 Magnification

### EFPADFCSTR15 Cheater Lens with 1.5 Magnification

### EFPADFCSTR20 Cheater Lens with 2.0 Magnification

### EFPADFCSTR25 Cheater Lens with 2.5 Magnification



EFPADFLENSA



YA4600MAGKT

## Magnifying Lens

### YA4600MAGKT Magnifying

### Lens Kit

- Comes complete with 1.5X and 2.0X magnifying lenses and lens holder
- Optional accessory provides additional magnification for YA Series



WCH3

## Welding Hammer

### WCH3 11" Welder's Chipping Hammer (Blue-Point®)

- Features a pick end and a 3/4" chisel head end
- Heat-treated high-alloy steel for long life
- 11" overall length
- 7-1/2" head length



YA247

## Welder's Marking Set

### YA247 2 pc Welder's Marking Set (Blue-Point®)

- Includes a YA247-2 Soapstone Marker for making temporary markings and a YA247 Scribe with a sharp, tough carbide tip for making permanent markings
- Replaceable soapstone
- Each tool has a tough aluminum barrel
- Soapstone marker includes built-in sharpener
- Convenient storage pouch

### YA247-1 Scribe (Blue-Point®)

### YA247-2 Soapstone Marker (Blue-Point®)

# WELDING CLAMPS

## C-Clamps

- Equipped with anti-spatter spindles, precision cut from hardened steel
- Forged frames have extra-deep throats for additional strength and work capacity
- Grooved anvil, in combination with a serrated pad, provides a nonslip grip on various metal surfaces
- Spindles, handles and pads are copper plated to avoid collecting spatter

| Stock No. | Capacity, inches | Throat Depth, inches |
|-----------|------------------|----------------------|
| CL402A    | 0-2              | 2                    |
| CL403A    | 0-3              | 2-1/2                |
| CL404A    | 0-4              | 2-7/8                |
| CL406A    | 0-6              | 3-5/8                |
| CL408A    | 0-8              | 4-1/2                |
| CL410A    | 2-10             | 5-5/8                |
| CL412A    | 2-12             | 5-3/4                |

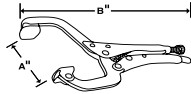


CL402A



- Wear welding helmet and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

## WELDING CLAMPS



VGP12212

### Large Jaw

#### Large Jaw Locking Pliers (Blue-Point®)

- Multipurpose tool with a larger jaw capacity for general maintenance and screw-in oil filter removal

| Stock No. | Dimension A, Jaw Cap., inches (mm) | Dimension B, Length, inches (mm) |
|-----------|------------------------------------|----------------------------------|
| VGP12212  | 3-15/16 (100)                      | 12 (300)                         |



CL404VIS

### High-Visibility C-Clamps

- Similar to CL Series C-clamps
- High-visibility models conform to the OSHA safety color standard for physical hazards regulation #19110.144
- 3/4" spindle diameter

| Stock No. | Capacity, inches | Throat Depth, inches |
|-----------|------------------|----------------------|
| CL404VIS  | 0-4-1/2          | 3-1/4                |
| CL406VIS  | 0-6-1/16         | 3-5/8                |
| CL408VIS  | 0-8-1/4          | 5                    |



VGP104

### Auto Body/Welding Set

#### VGP104 Autobody/Welding Locking Pliers Set (Blue-Point®)

- Includes a VGP23312 Self-Leveling Jaws Pliers, VGP13709 Plugweld Pliers, plus VGP14412 and VGP12406 C-Clamp Pliers (4 pc) in a VGP1041 Kit Bag



VGP12412



VGP22418

### Locking C-Clamps, Standard Tip

- Clamps offer quick and easy handling for auto body and metal fabrication applications

| Stock No. | A inches (mm)  | B inches (mm) |
|-----------|----------------|---------------|
| VGP12406  | 2-5/16 (60)    | 6 (152.4)     |
| VGP12412  | 3-15/16 (100)  | 12 (304.7)    |
| VGP12418  | 10-1/4 (260)   | 18 (457.2)    |
| VGP12424  | 15-11/16 (400) | 24 (609.6)    |

### Locking C-Clamps, Swivel Tip

| Stock No. | A inches (mm)  | B inches (mm) |
|-----------|----------------|---------------|
| VGP22406  | 1-15/16 (50)   | 6 (152.4)     |
| VGP22412  | 3-15/16 (100)  | 12 (304.7)    |
| VGP22418  | 9-7/16 (240)   | 18 (457.2)    |
| VGP22424  | 15-11/16 (400) | 24 (609.6)    |



VGP23312

### Locking Clamps, Self-Leveling Jaws

#### VGP23312 Locking Clamp Self-Leveling Jaws (Blue-Point®)

- Swivel pads and narrow jaw profile firmly grip tapered surfaces in areas where C-clamps cannot fit



VGP14412

### Locking C-Clamp, Aluminum Alloy

#### VGP14412 Locking C-Clamp, Aluminum Alloy (Blue-Point®)

- Lightweight aluminum jaw will not bend or distort body panels
- Welding pellets will not adhere to the jaw



VGP12509

## Locking U-Clamp

### VGP12509 Locking U-Clamps (Blue-Point®)

- U-shaped jaws allow access and visibility when welding



VGP13420

## Locking C-Clamp, Long Reach

### VGP13420 Locking C-Clamp/Long Reach (Blue-Point®)

- Wide profile with perforated jaws allows clamping around large objects with uniform tension distribution



VGP13709

## Locking Pliers, Plug Weld

### VGP13709 Locking Pliers/Plugweld (Blue-Point®)

- Copper alloy knurled pad prevents burn through when plug welding thin sheet metal



VGP12808

## Locking Clamp, Sheet Metal

### VGP12808 Locking Clamps/Sheet Metal (Blue-Point®)

- Wide jaws allow clamping, bending, forming and crimping of sheet metal without gripping effort

## Welding Clamps, Miniature

- Micro size for optimal access into confined spaces
- Aluminum alloy body ensures robustness with minimal weight, while resisting splatter and corrosion
- Design permits exertion of 1/2 ton of force without deformation
- Perforated jaw allows attachment to fixtures and connection of ground cables
- One-hand “no pinch” clamping and release

### MG2000K Micro-Grip Locking Clamp Set (Blue-Point®)

- Includes (4) Micro-Grip Clamps



MG2000K

# DENT PULLERS/ACCESSORIES

## Portable Dent-Pulling System

### ADPKITJR Aluminum Panel Dent Puller Kit

- Essential tools for pulling dents on aluminum vehicles
- Kit includes a power supply to weld studs for dent pulling
- High-capacitive discharge stud welder automatically welds the stud when pushed onto a panel
- Three ground lugs—integrated in the gun—help keep the studs perpendicular to the panel
- Includes a lever puller, squeeze puller and hand t-puller for a variety of dents, creases and dings
- Complete consumable kit with (250) Al-Mg stud pins for 5000 Series and (250) Al-Si stud pins for 6000 Series aluminum panels
- Contains (5) quick-clamp pulling fingers and (5) twist eyelets
- Variable-temperature heat gun with infrared thermometer heats panels prior to straightening
- Stainless steel brushes to prep a panel prior to aluminum stud welding by removing oxidization
- Optional recommended accessories include MIGCARTC Welding Cart, ADP265-BP Bridge Puller, BF775-C Handle and 14V12 File



ADPKITJR



- Wear welding helmet and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

## DENT PULLERS/ACCESSORIES



ADPKIT

### Portable Dent-Pulling System

#### ADPKIT Aluminum Panel Dent Puller Kit

- Essential tools for pulling dents and repairing aluminum vehicles
- Complete tool set includes a power supply to weld studs for dent pulling
- High-capacitive discharge stud welder automatically welds the stud when pushed onto a panel
- Three ground lugs—integrated in the gun—help keep the studs perpendicular to the panel
- Includes a bridge puller, lever puller, squeeze puller and t-handle puller for a variety of dents, creases and dings
- Complete consumable kit with (250) Al-Mg stud pins for 5000 Series and (250) Al-Si stud pins for 6000 Series aluminum panels
- Contains (5) quick-clamp pulling fingers and (5) each twist eyelets
- Includes a pneumatic solid rivet gun, flush set, a punch and bucking bar to remove and install solid rivets
- Includes elf-piercing rivet removal and installation tools
- Door and step flange pneumatic hemming tools are specific to aluminum panels
- Complete body hammer and dolly set with rubber covers minimize stretching
- Includes offset aviation snips, clekos, 1/4" drill bits and aluminum panel thickness gauge
- Variable-temperature heat gun with infrared thermometer to heat panels prior to straightening
- Drawers have foam inserts to hold tools, keeping them isolated from steel panel use
- Set of (7) locking C-clamp pliers
- Includes a dust cover to protect the contents when not in use

### Dent Puller Accessories

| Stock No.    | Description                                  | Qty | Location  |
|--------------|--|-----|-----------|
| ADP265-DR1   | Foam Insert – Drawer #1                      | 1   | Drawer #1 |
| ADP265-KIT   | Pull Pin Consumable Kit                      | 1   | Drawer #2 |
| BF608B       | Short Curve Cross Peen Hammer                | 1   | Drawer #1 |
| BF611B       | Picking and Dinging Hammer                   | 1   | Drawer #1 |
| BF617B       | Shrinking Hammer                             | 1   | Drawer #1 |
| BF710B       | 1.65 lb Steel Toe Dolly                      | 1   | Drawer #1 |
| BF711B       | 2-1/4 lb Steel Heel Dolly                    | 1   | Drawer #1 |
| BF712B       | 2-1/4 lb Steel General Purpose Dolly         | 1   | Drawer #1 |
| BF716B       | 10" Light Dinging Spoon                      | 1   | Drawer #1 |
| HBSE10       | 10 oz Slimline Dead Blow Soft Grip Hammer    | 1   | Drawer #1 |
| DFXDF900BHND | Bolster Head Nylon Chisel                    | 1   | Drawer #1 |
| DFXDF900DEND | Double End Nylon Dolly                       | 1   | Drawer #1 |
| DFXDF900RHND | Round Head Nylon Chisel                      | 1   | Drawer #1 |
| STK35011     | Heel Dolly Cover                             | 1   | Drawer #1 |
| STK35012     | Heel Dolly End Cover                         | 1   | Drawer #1 |
| STK35013     | Universal Dolly Cover                        | 1   | Drawer #1 |
| STK35015     | Slapping Spoon Cover                         | 1   | Drawer #1 |
| STK35017     | Toe Dolly Cover                              | 1   | Drawer #1 |
| STK35025     | Hammer Cover                                 | 1   | Drawer #1 |
| ADP265-DR2   | Foam Insert –Drawer #2                       | 1   | Drawer #2 |
| ATI141A31/4  | Knockout Punch                               | 1   | Drawer #2 |
| ATI556MHD    | 1/4" Long Reach 0–1/2" Cleko                 | 12  | Drawer #2 |
| ATI719       | Bucking Bar                                  | 1   | Drawer #2 |
| AVSOSL9      | Snips  | 1   | Drawer #2 |
| AVSOSR9      | Snips  | 1   | Drawer #2 |
| DBD1/4A†     | 1/4" Double Ended 135° Split Point Drill Bit | 6   | Drawer #2 |
| DEBUR300     | Deburring Tool                               | 1   | Drawer #2 |
| LST51318     | 283 Series US Standard Gauge                 | 1   | Drawer #2 |
| ATIATC3X     | Rivet Guns - Pistol Grip                     | 1   | Drawer #2 |
| STK21960     | Spr Insertion Tool                           | 1   | Drawer #2 |
| STK21970     | Spr Extraction Tool                          | 1   | Drawer #2 |
| AC59C        | Stainless Steel Wire Brush (Blue-Point®)     | 1   | Drawer #3 |
| AC5C         | Hand Scratch Brush (Blue-Point®)             | 1   | Drawer #3 |

| Stock No.    | Description  | Qty | Location   |
|--------------|--|-----|------------|
| ADP265-DR3   | Foam Insert – Drawer #3                            | 1   | Drawer #3  |
| ET1400       | Heat Gun   | 1   | Drawer #3  |
| RTEMP8       | Multi-Laser Infrared Thermometer                   | 1   | Drawer #3  |
| PT280-305-23 | Stainless Steel Wire Wheel (Coarse)                | 1   | Drawer #3  |
| PT280THUGASF | Crud Thug®   | 1   | Drawer #3  |
| ATI107A-1    | Flush Set Straight                                 | 1   | Drawer #4  |
| ATI508SG     | Sheet Holder Pliers with Grips                     | 1   | Drawer #4  |
| STK21892     | Door Flanging Tool                                 | 1   | Drawer #4  |
| STK21896     | Stepped Flanging Tool                              | 1   | Drawer #4  |
| 14V          | 14" Curved Tooth File, 8 TPI                       | 1   | Drawer #4  |
| 14V12        | 14" Curved Tooth File, 12 TPI                      | 1   | Drawer #4  |
| ADP265-DR4   | Foam Insert – Drawer #4                            | 1   | Drawer #4  |
| AT615K       | Belt Sander Kit                                    | 1   | Drawer #4  |
| ATBA3818120  | Coated Abrasive Sanding Belt (Blue-Point®)         | 1   | Drawer #4  |
| ATBA381860   | Coated Abrasive Sanding Belt (Blue-Point®)         | 1   | Drawer #4  |
| ATBA381880   | Coated Abrasive Sanding Belt (Blue-Point®)         | 1   | Drawer #4  |
| BF775C-A     | Flexible File Holder (Blue-Point®)                 | 1   | Drawer #4  |
| VGP13420     | Locking C-Clamp/Long Reach (Blue-Point®)           | 1   | Drawer #5  |
| VGP22406     | Locking C-Clamp Swivel Tip Pliers (Blue-Point®)    | 2   | Drawer #5  |
| VGP22412     | Locking C-Clamp Swivel Tip Pliers (Blue-Point®)    | 2   | Drawer #5  |
| VGP22418     | Locking C-Clamp/Swivel Tip (Blue-Point®)           | 2   | Drawer #5  |
| ADP265       | Aluminum Panel Dent Puller                         | 1   | Side Shelf |
| ADP265-BP    | Bridge Puller                                      | 1   | Top Shelf  |
| ADP265-LP    | Lever Puller                                       | 1   | Top Shelf  |
| ADP265-SP    | Squeeze Puller                                     | 1   | Top Shelf  |
| ADP265-TP    | Hand T-Puller                                      | 1   | Top Shelf  |
| ADP265-CVR   | Cover  | 1   | —          |
| KRSC326FPBO  | 32" Six-Drawer Compact Roll Cart                   | 1   | —          |
| ADPSHELF     | Welder Shelf, Cord Wrap Hook and Accessory Adaptor | 1   | —          |



## Stud Gun Dent Pullers

### YA22345 Stud Gun

#### YA22345KT Stud Gun Dent Puller Kit

- Kit includes a stud gun, welding tips, slide hammer and T-puller
- Used to pull dents by welding pins to the work piece
- Stud gun uses minimal heat to reduce burn through

#### YA223451 Draw Pins (2 mm)

- Soft for easy flexing and grinding
- Delivers 500 lb pull
- Pack of 500

#### YA223452 Draw Pins (2.5 mm)

- Soft for easy flexing and grinding
- Delivers 500 lb pull
- Pack of 500

#### YA223453 Magna Clamp

- Features a wing nut and is self-tightening
- Locks onto draw pins for pulling dents

#### YA223454 T-Puller

- Compact for small damage repair on lightweight metal
- Helps reduce overpull

#### YA223455 Slide Hammer

- Polished steel bar with a rubber handle ensures positive pulling action

#### YA223456 Shrinking Electrode

- Provides fast heat

#### YA223457 Pin Electrode

- Holds all standard size pins

#### YA223458 Trim Rivets

- Used to repair metal trim strips
- Weld onto a panel and provide permanent retention to a trim strip
- Pack of 500

#### YA223459 Rivet Electrode

- For use with YA223458 Trim Rivets
- Retains a trim rivet for welding

#### YA2234510 Storage Case

- For YA22345KT Stud Gun Dent Puller Kit



YA22345KT



YA223453



YA22375

YA22350C

## Portable Dent-Pulling System

- Easily pulls dents on roofs, hoods and side panels
- Star tip design eliminates the need to drill holes or cut pin heads
- Built-in slide hammer speeds up the pulling process (YA22350C only)

| Stock No.  | Type     | Primary Voltage        | Line Fuse | Power Input Cable, feet (m) | Power Lead Length, feet | Ground Cable Length, feet | Shipping Weight, lb |
|------------|----------|------------------------|-----------|-----------------------------|-------------------------|---------------------------|---------------------|
| YA22350C‡  | Star Tip | 120 V AC, 50/60 Hz     | 30 A      | 25 (7.6)                    | 7                       | 7                         | 64                  |
| YA22375‡   | T-Handle | 120 V AC, 50/60 Hz     | 30 A      | 25 (7.6)                    | 10                      | 7                         | 64                  |
| YAH22350C‡ | Star Tip | 208/230 V AC, 50/60 Hz | 30 A      | 25 (7.6)                    | 7                       | 7                         | 64                  |
| YAH22375‡  | T-Handle | 208/230 V AC, 50/60 Hz | 30 A      | 25 (7.6)                    | 7                       | 7                         | 64                  |

## Portable Dent Puller Accessories

### YA2235CART Accessory Cart

- Adds additional height and portability

### YA2355 Star Tips

- Replacement tips (10 pk) for YA22350C, YAH22350C and YA223005

### YA2351‡ Welding Tip

- Optional long stud welding tip

### YA2353‡ Heating Tip

- Replacement heat shrink heating tip

### YA2354‡ Slotted Weld Tip

- For use with a portable dent pulling system

### YA2358 Magnetic Base

- Replacement magnetic ground clamp

### YA22357 Trigger Switch

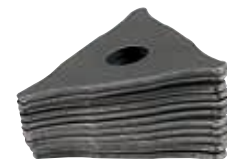
- Replacement switch

### YA223008 Prybar

- Replacement prybar for YA22375 and AH22375; optional for YA22350C and YAH22350C



YA2235CART



YA2355



YA2353



YA2358



- Wear welding helmet and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## DENT PULLERS/ACCESSORIES



YA22351

### Quick Claw Dent-Pulling System

#### YA22351 ‡ Quick Claw Dent-Pulling Set

- For use with YA22350C, YAH22350C, YA22375 and YAH22375
- Used to establish multiple pull points along dents
- Independent finger action of claw varies the pulling force at multiple points
- Can pull by hand, slide hammer or chain
- Comes with a claw, (2) tips and (24) wires

#### YA22352 ‡ Claw Handle

- Four-finger claw pulling handle

#### YA22353 ‡ Welder Tips

- Welding tips for YA22354 Weld Wires
- Set includes (2) tips

#### YA22354 ‡ Weld Wires

- 1/2 lb welding wires
- Set includes (24) wires

## SPOT WELDERS



YA22300A

### Spot Welders

| Stock No.  | Primary Voltage | Line Fuse | Maximum Output | Maximum Thickness | Coated Metal Capability | Kva Rating | Shipping Weight, lb |
|------------|-----------------|-----------|----------------|-------------------|-------------------------|------------|---------------------|
| YA22355 ‡  | 208/230 V AC    | 60 A      | 6,000 Amps     | 3 Piece, 20 Gauge | Yes                     | 6          | 300                 |
| YA22300A ‡ | 208/230 V AC    | 50 A      | 2,800 Amps     | 2 Piece, 20 Gauge | No                      | 4          | 120                 |

#### YA22300A ‡ Standard-Duty Spot Welder

- Produces spot welds for collision repair
- Squeeze-type action produces factory-style welds
- Optional accessories can increase welding capability

#### YA22355 ‡ Heavy-Duty Liquid-Cooled Spot Welder

- Designed to produce factory-type spot welds on low-carbon steel panels
- Pneumatic squeeze-type gun welds through primers, sealers, and adhesives between panels
- Features coolant circulation throughout the welding tips for consistent and maximum weld penetration
- Included accessories: 14" long reach electrode and a wheelhouse electrode



YA22355

### Spot Welder Accessories

#### YA2230010 ‡ Welding Tip Kit

- Contains replacement welding tips for the YA223004 Welding Cable Assembly and the YA223005 Dent Puller Kit

#### YA223004A ‡ Welding Cable Assembly

- Accessory welding cable assembly for the YA22300A Standard-Duty Spot Welder
- Allows welding from a single side, such as door skins and other applications

#### YA22357 Trigger Switch

- Replacement switch

#### YA223005B ‡ Dent Puller Kit

- Fast, effective dent repair without drilling holes or using draw pins

#### YA22356 Handle

- New style handle to house the improved YA22357 Trigger Switch
- Can be retrofitted to older models

#### YA223001 ‡ Welding Tip

- Long spot welding tip for the YA22300A Standard-Duty Spot Welder

#### YA223002 ‡ Welding Tip

- Short spot welding tip for the YA22300A Standard-Duty Spot Welder

#### YA223003 ‡ Welding Tip

- Replacement drip rail welding tip for the YA223004 Welding Cable Assembly

#### YA223006 ‡ Welding Tip

- Replacement welding tip for the YA223004 Welding Cable Assembly

#### YA223007 ‡ Replacement Switch

- Replacement push-button switch for the welding gun included with the YA22300A Standard-Duty Spot Welder, YA223004 Welding Cable Assembly and the YA223005 Dent Puller Kit

#### YA223009 ‡ Welding Tip

- Drip rail spot welding tip for the YA22300A Standard-Duty Spot Welder

### Liquid-Cooled Spot Welder Accessories

#### YA26143 Long-Reach Wheelhouse Replacement Tips

- For use with the YA22355 Heavy-Duty Liquid-Cooled Spot Welder
- 2 pack

#### YA26144 Standard Wheelhouse Replacement Tips

- For use with the YA22355 Heavy-Duty Liquid-Cooled Spot Welder
- 2 pack

#### YA2097335 J-Shaped Wheelhouse Replacement Tips

- Use with the YA22355 Heavy-Duty Liquid-Cooled Spot Welder
- 2 pack

- Wear welding helmet and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# UNDERCAR

ONE OF THE SUREST WAYS TO GROW YOUR CUSTOMER BASE IS TO EXPAND OR UPGRADE YOUR UNDERCAR SERVICES. AND OUR EQUIPMENT IS ALSO A SURE THING, BECAUSE IT'S BUILT TO LAST AND TO PERFORM FLAWLESSLY.

## OVER-THE-TOP PERFORMANCE FROM ADVANCED UNDERCAR EQUIPMENT.

From tire changers and tire pressure monitoring tools to wheel balancers and torque sticks, Snap-on® equipment marries ultimate accuracy with intuitive operation – helping you work quickly and more efficiently. Additional solutions like our ball joint press that makes removal and installation easier provide even more time savings.

# WHEEL BALANCING: BALANCERS

## Wheel Balancers

Snap-on® Wheel Balancers use a patented Virtual Plane Measurement system to achieve accuracy and repeatability. A variety of weight placement options, such as Static, Dynamic, five ALU modes, ALU-S, hidden

spoke and match mounting optimization modes, provide the versatility for these balancers in a variety of applications on passenger cars, light trucks and commercial vehicles.



EEWB330B



EEWB331B



EEWB332B



EEWB334A

- Easy-to-use display panel includes individual keys for parameter input
- Static mode for single-plane narrow wheels
- Dynamic mode for dual-plane balancing
- SAPE arm accelerates set-up time without entering the wheel type
- Five ALU-S modes provide multiple combinations of hammer and adhesive weight placements
- ALU-S mode provides two-plane ALU weight placement

- Match mount-optimization feature determines proper phasing between the tire and wheel, and allows minimal weight usage
- Hidden weight mode for weight placement behind the spokes
- Multiple operator feature stores parameters for up to four individual operators
- Fine weight toggle allows the operator to choose between 0.25 oz Standard mode and 0.05 oz Fine mode
- Allows use of common adaptors and pin plates

| Specification   | EEWB330B                   | EEWB331B                   | EEWB332B                   | EEWB334A                   |
|---|----------------------------|----------------------------|----------------------------|----------------------------|
| Type  | Hand Spin                  | Motorized                  | Motorized                  | Motorized                  |
| Display Type  | Digital                    | Integrated LED             | Raised LED                 | Touchscreen                |
| Data entry Distance/Diameter                            | SAPE Arm                   | SAPE Arm                   | SAPE Arm                   | SAPE Arm                   |
| SAPE entry Width  | Manual                     | Manual                     | Sonar                      | Sonar                      |
| Weight Placement  | SAPE                       | SAPE                       | Laser                      | Laser                      |
| Rim Width (Maximum), inches (mm)                        | 20 (508)                   | 20 (508)                   | 20 (508)                   | 20 (508)                   |
| Rim Diameter, inches (mm)                               | 8-30 (203-762)             | 8-30 (203-762)             | 8-30 (203-762)             | 8-30 (203-762)             |
| Max Wheel Weight, lb (kg)                               | 120 (54)                   | 120 (54)                   | 154 (70)                   | 154 (70)                   |
| Max Tire Diameter, inches (mm)                          | 42 (1,067)                 | 42 (1,067)                 | 42 (1,067)                 | 42 (1,067)                 |
| Max Wheel Width, inches (mm)                            | 20 (508)                   | 20 (508)                   | 20 (508)                   | 20 (508)                   |
| Cycle Time, seconds                                     | 15                         | 11                         | 4.5                        | 4.5                        |
| Measuring Speed, RPM                                    | 100                        | 100                        | 200                        | 200                        |
| Weight Placement Resolution                             | ± 0.7°                     | ± 0.7°                     | ± 0.7°                     | ± 0.7°                     |
| Weight Imbalance Resolution (Roundoff Mode), oz (g)     | 0.25 (7.1)                 | 0.25 (7.1)                 | 0.25 (7.1)                 | 0.25 (7.1)                 |
| Weight Imbalance Resolution (Non-Roundoff Mode), oz (g) | 0.05 (1.42)                | 0.05 (1.42)                | 0.05 (1.42)                | 0.05 (1.42)                |
| Electrical Requirements, V AC/ph/Hz/A                   | 115/1/60/2                 | 115/1/60/6                 | 115/1/60/6                 | 115/1/60/6                 |
| Required Work Area (W x D), inches (mm)                 | 52 x 48<br>(1,321 x 1,219) | 60 x 48<br>(1,524 x 1,219) | 62 x 67<br>(1,575 x 1,702) | 62 x 67<br>(1,575 x 1,702) |
| Machine Weight, lb (kg)                                 | 174 (79)                   | 280 (127)                  | 325 (147)                  | 325 (147)                  |

Technical Support: 1-800-225-5786

### EEWB330B Hand Spin Wheel Balancer

- Small footprint hand spin wheel balancer with features of most high-end machines

### EEWB331B Motorized Wheel Balancer

- Small footprint motorized wheel balancer with features of most high-end machines

### EEWB332B Motorized Wheel Balancer with Raised Display

- Medium footprint motorized wheel balancer with a high-end feature set with faster throughput times
- Laser-guided weight placement on the inside of the wheel

### EEWB334A Motorized Wheel Balancer with Touchscreen Video Display

- Motorized wheel balancer that features extremely fast data entry and low cycle times
- Laser-guided weight placement on the inside of the wheel

## Standard Accessories

| Stock No.   | Description     |
|-------------|-----------------|
| EAM0003J69A | 3.4-5.4" Cone   |
| EAM0005D25A | 3.8-4.5" Cone   |
| EAM0005D24A | 2.8-3.9" Cone   |
| EAM0005D23A | 1.6-3.0" Cone   |
| EAA0263G66A | Quick Nut 40 mm |

| Stock No.   | Description               |
|-------------|---------------------------|
| EAC0058D08A | Pressure Disk             |
| EAC0058D15A | Soft Protector Ring       |
| EAM0021D90A | Standard 40 mm Stub Shaft |
| WWPR13A     | Wheel Weight Pliers       |
| EAA0247G21A | Rim Width Caliper         |

# WHEEL BALANCING: MOTORCYCLE WHEEL BALANCER AND TIRE CHANGER

## Motorcycle Wheel Balancer

### EEWB333B Motorcycle Wheel Balancer

- Hand spin operation features static and dynamic balancing modes
- Features five ALU modes to place weights in the proper location on multiple wheel configurations
- Input of rim distance by SAPE arm for accelerated set-up time
- Cycle time of 6–10 seconds
- Allows exact weight placement on rim when using tape weights
- Small footprint takes up a minimum of floor space
- Weight minimization and balancing optimization modes for reducing the overall weight usage
- Split weight mode to hide weights behind spokes
- Stadium weight tray is curved allowing for easy access to the keypad and weight pockets
- Multiple operator feature allows several users to quickly recall settings
- Virtual plane imaging technology for unsurpassed accuracy
- Clamps the tire to keep it true to the balancer shaft center without movement
- Adaptor comes complete with 14 mm shaft, 3/4" adaptors, cones and spacers
- Serviced on site with a two year parts and labor warranty



| Specifications                                      | EEWB333B                |
|---|-------------------------|
| Weight Imbalance Resolution (roundoff mode), oz (g) | 0.25 (5)                |
| Cycle Time, seconds                                 | 15                      |
| Measuring Speed, RPM                                | 100                     |
| Rim Width, inches (mm)                              | 3–20 (508)              |
| Rim Diameter, inches (mm)                           | 8–30 (203–762)          |
| Max Wheel Width, inches (mm)                        | 20 (508)                |
| Max Tire Diameter, inches (mm)                      | 42 (1,067)              |
| Electrical Requirements, V AC/ph/Hz/A               | 115/1/60/4              |
| Required Work Area (W x D), inches (mm)             | 52 x 48 (1,321 x 1,219) |
| Machine Weight, lb (kg)                             | 309 (140)               |

## WHEEL BALANCING: ACCESSORIES

### Wheel Balancing Accessories

#### WWH13LG Wheel Weight Hammer (Blue-Point®)

- Designed for use on steel and zinc clip-on wheel weights
- Soft hammer face to avoid scratches and dings
- Solid handle resists most shop chemicals and has a nonslip grip
- Replaceable cold-rolled steel hook assembly to ensure long service life
- Works best on domestic brands that use traditional dimension dismount holes

#### WWH13SM Wheel Weight Hammer (Blue-Point®)

- Designed for use on steel and zinc clip-on wheel weights
- Soft hammer face to avoid scratches and dings
- Solid handle resists most shop chemicals and has a nonslip grip
- Replaceable cold-rolled steel hook assembly to ensure long service life
- Specially designed small diameter dismounting hook is used on wheel weights with smaller dimension dismount holes

#### WWPR13A Wheel Weight Pliers

- Easily removes and replaces wheel weights, as well as cutting and crimping
- Made of heat-strengthened steel
- Comfortable vinyl handle grips and replaceable hard plastic hammer tip

#### EAA0260D80A Optional Motorcycle Adaptor For Snap-on® Wheel Balancers

- Holds wheel and tire assembly into position
- Minimizes wobble and improves accuracy

#### EAA0277D03A\* 10 mm Shaft Assembly

- 10 mm shaft assembly

#### EAA0277D05A\* Scooter Adaptor

- Scooter adaptor

#### EAA0277D07A\* Suzuki®, Moto Guzzi® V11 14 mm Shaft Cone set

- Suzuki®, Moto Guzzi® V11 14 mm shaft cone set

#### EAA0277D20A\* Ducati®/Triumph® Adaptor Set

- Ducati®/Triumph® adaptor set

#### EAA0277D22A\* Harley-Davidson® 3/4" Shaft Adaptor – 311.2 mm Long

- Harley-Davidson® 3/4" shaft adaptor
- 311.2 mm long

#### EAA0260D16A\* BMW® Adaptor for Monolever Wheels

- BMW® adaptor for monolever wheels

#### EAA0277D09A Honda®/Yamaha® Monolever Adaptor Flange

- Honda®/Yamaha® monolever adaptor flange

#### EAA0277D11A Aprilia® Monolever Adaptor Flange

- Aprilia® monolever adaptor flange

\*Requires EAA0260D80A Adaptor



WWH13LG



WWH13SM



WWPR13A



EAA0260D80A



EAA0277D03A



EAA0277D22A

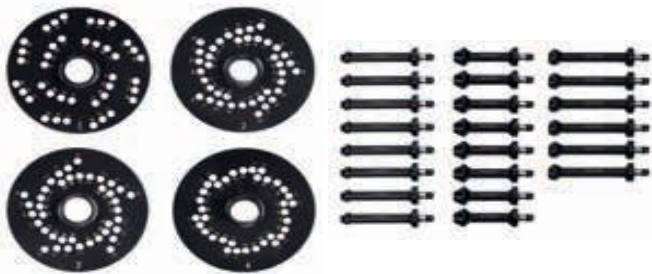


EAA0260D16A



- Read and follow all safety messages and instructions
- Read safety precautions on pages W1 to W4

## WHEEL BALANCING: ACCESSORIES



EEWB3-1B



EEWB3-4A



EAK0309J54A



8100068



EAA0255J33A



EAK0309J61A

### Balancer Pin Plate Kits

| Stock No. | Description       | EEWB3-1A |
|-----------|-------------------|----------|
| EEWB3-11B | Adaptor Plate #1  | •        |
| EEWB3-12B | Adaptor Plate #2  | •        |
| EEWB3-13B | Adaptor Plate #3  | •        |
| EEWB3-14B | Adaptor Plate #4  | •        |
| EEWB3-02B | Wide Taper Pin B  | 8X       |
| EEWB3-03B | Round Pin C       | 6X       |
| EEWB3-08  | Small Taper Pin E | 8X       |

#### EEWB3-1B Balancer Plate Pin Kit

- Pin plate kits are a system of plates and studs to center and load the wheel at the lug stud holes
- Used to properly mount wheels to the wheel balancer and is positioned outside of the wheel, in-between the quick nut and lug stud holes
- Mirrors mounting the wheel to the vehicle's hub and minimizes imbalance errors
- Applies even pressure to lug stud surfaces and locates the wheel on center of balancer shaft
- Avoids misalignment by improper and inconsistent mounting on the balancer
- Eliminates damage to plastic clad wheels

#### EAK0309J54A Balancer Flange Spacer

- Provides added clearance for larger cones and collets
- For use with the EEWB3-4A Collet Set

#### 8100068 2 pc Truck Step Cone Kit

- Low taper angle for hub centric wheels
- Used for 4.25–6.85" hub pilot hole sizes
- Works on wheel balancers with a 40 mm shaft size
- Spacer allows for additional clearance

| Stock No. | Description              | EEWB3-4A |
|-----------|--------------------------|----------|
| EEWB3-42A | #1 Collet 48.3–61.0 mm   | 1        |
| EEWB3-43A | #2 Collet 55.9–68.6 mm   | 1        |
| EEWB3-44A | #3 Collet 63.5–76.2 mm   | 1        |
| EEWB3-45A | #4 Collet 71.1–83.8 mm   | 1        |
| EEWB3-46A | #5 Collet 78.7–91.4 mm   | 1        |
| EEWB3-47A | #6 Collet 86.4–99.1 mm   | 1        |
| EEWB3-48A | #7 Collet 94.0–106.7 mm  | 1        |
| EEWB3-49A | #8 Collet 101.6–114.3 mm | 1        |
| EEWB3-50A | #9 Collet 109.2–121.9 mm | 1        |

#### EEWB3-4A 9 pc Collet Set

- Precision-machined and sized collets fit into the rear pilot hole on plastic-clad wheels to avoid damage
- Collets are shallow in length—to not interfere with plastic clad wheels
- Recommended to be used in conjunction with a pin plate on the wheel's outer side
- Larger collets require the use of the EAK0309J54A Balancer Flange Spacer

#### EAA0255J33A 40 mm Shaft Upgrade Kit (Blue-Point®)

- Converts older Snap-on® balancers with a 28.5 mm shaft to 40 mm (EEWB304A and B, EEWB305A and B)

#### EAK0309J61A Storage Stand

- Storage stand for EEWB3-1B and EEWB3-4A



EEWH312A



EEWH329A



EEWH311C



EEWH331A

## Tire Changers

Tire Changers come in a variety of models to fit each individual shop's needs. The Tilt-Back Tire Changers handle a variety of tire sizes and configurations, with a tower that tilts back to allow for wider tire and wheel assemblies, and feature a Pneumatic Bead Assist arm to assist the operator when mounting low-profile tires. The Swing Arm Tire Changers have basic features for a shop that is new in the tire business or as an additional unit in a high-volume shop.

### Common Features for all Snap-on® Tire Changers

- Mount/dismount head is designed to avoid direct contact with the rim
- Six-point contact rim clamping jaws provide additional slip resistance
- Plastic protection on the mount/dismount head and clamping jaws prevents accidental rim damage
- Bead seating jets are integrated into the clamping jaws and force additional air into the tire during inflation
- Twin cylinder clamping offers more force and provides a uniform clamping pressure on the rim
- Multi-position bead breaker covers multiple applications such as SUVs and light trucks with tall sidewalls
- High-torque 1HP turntable motor minimizes stalling
- Covered by a two-year on-site parts and labor warranty
- Optional accessories are available for a variety of specialty applications

### Common to EEW331A, EEW311C and EEW329A:

- Pneumatic Bead Assist provides user with additional capability when servicing low-profile tires with stiff sidewalls
- Pneumatic cylinder raises and lowers each of the specialized tools into place
- Bead Depressor pushes the tire sidewall into the drop center and follows the tire as the turntable rotates for easier mounting
- Top Roller also helps keep the bead in drop center
- Top Roller allows the user to lubricate the top bead prior to dismounting the tire
- Wheel Depressor applies downward pressure during initial clamping
- Power Lifting Disc lifts the tire off the lower bead of the rim to aid user during the dismount process

| Specifications                             | EEWH312A               | EEWH329A                | EEWH311C                | EEWH331A                |
|--|------------------------|-------------------------|-------------------------|-------------------------|
| <b>Type</b>                                | Swing Arm              | Swing Arm               | Tilt Back               | Tilt-Back               |
| <b>Pneumatic Bead Assist</b>               | Optional               | Standard                | Standard                | Standard                |
| <b>Turntable Speed, RPM, CW/CCW</b>        | 7                      | 7                       | 7                       | 7                       |
| <b>Outside Clamping Range, inches (mm)</b> | 10–20 (254–508)        | 10–24 (254–610)         | 10–24 (254–610)         | 12–26 (305–660)         |
| <b>Inside Clamping Range, inches (mm)</b>  | 12–22 (305–559)        | 12–26 (305–660)         | 12–24 (305–610)         | 14–26 (355–660)         |
| <b>Maximum Rim Width, inches (mm)</b>      | 12 (305)               | 14 (356)                | 15 (381)                | 16 (406)                |
| <b>Maximum Tire Diameter, inches (mm)</b>  | 40 (1,016)             | 42 (1,067)              | 40 (1,016)              | 47 (1,200)              |
| <b>Maximum Tire Width, inches (mm)</b>     | 12 (305)               | 14 (356)                | 15 (381)                | 16 (406)                |
| <b>Bead Breaking Force (lb @ 150 PSI)</b>  | 3,300                  | 3,300                   | 3,300                   | 3,300                   |
| <b>Air Requirements (PSI)</b>              | 140–170 @ 8.5 CFM      | 140–170 @ 8.5 CFM       | 140–170 @ 8.5 CFM       | 140–170 @ 8.5 CFM       |
| <b>Voltage Requirements</b>                | 115 V 60 Hz, 1 ph 20 A | 115 V 60 Hz, 1 ph 20 A  | 115 V 60 Hz, 1 ph 20 A  | 115 V 60 Hz, 1 ph 20 A  |
| <b>Net Weight, lb (kg)</b>                 | 442 (200)              | 717 (325)               | 750 (340)               | 887 (402)               |
| <b>Overall Width x Depth, inches (mm)</b>  | 31 x 35 (787 x 889)    | 48 x 67 (1,219 x 1,702) | 53 x 53 (1,346 x 1,346) | 69 x 77 (1,753 x 1,956) |

TECHNICAL SUPPORT 1-800-225-5786

### EEWH312A Swing Arm Tire Changer

- Services OE wheel/tire assemblies on cars and light trucks

### EEWH329A Swing Arm Tire Changer

- Swing arm design for fast set-up time and additional clearance for taller profile tires
- Mount-dismount head at the 3 o'clock position for easier access and locks in place away from the rim edge

### EEWH311C Tilt-Back Tire Changer

- Tilt-back design speeds set up and allows for a 15" rim width
- Capable of clamping 24" dia. wheels on the inside and outside of the rim

### EEWH331A Heavy-Duty Tilt-Back Tire Changer

- Tilt-back design speeds set up and allows for a 16" rim clearance
- Capable of clamping 26" dia. wheels on the inside and outside of the rim



• Read and follow all safety messages and instructions  
 • Read safety precautions on pages W1 to W4

# TIRE CHANGERS



EAK0329G86A



EAA0247G04A



EAA0247G02A



EAA0329G33B



EAC0097G47A



5-14126A



8-03229A

## Tire Changer Accessories

| Stock No.   | Description                                     | EEWH312A | EEWH311C | EEWH329A | EEWH331A |
|-------------|---|----------|----------|----------|----------|
| EAA0351G90A | Clamping Jaw Protectors (Set of 4)              | Opt      | N/A      | N/A      | N/A      |
| EAC0087G48A | Protective Jaw Insert (1 each)                  | N/A      | N/A      | Std      | N/A      |
| EAK0329G86A | Jaw Protector (4 each)                          | N/A      | Std      | N/A      | Std      |
| EAK0237J19A | Jaw Protector (4 each)                          | N/A      | N/A      | Std      | N/A      |
| EAA0351G95A | Light Truck Adaptors (4 each)                   | Opt      | N/A      | N/A      | N/A      |
| EAA0304G32A | Light Truck Clamping Jaws                       | N/A      | Opt      | Opt      | Opt      |
| EAA0351G92A | Motorcycle Adaptors (4 each)                    | Opt      | N/A      | N/A      | N/A      |
| EAA0332G84A | ATV Clamping Adaptor                            | Opt      | N/A      | N/A      | N/A      |
| EAA0329G53A | -2" Motorcycle/ATV Adaptors (4 each)            | N/A      | Opt      | Opt      | Opt      |
| EAA0351G93A | +6" Clamping Adaptors (4 each)                  | Opt      | N/A      | N/A      | N/A      |
| EAA0331G91A | +4" Adaptors (4 each)                           | N/A      | Opt      | Opt      | Opt      |
| EAA0304G80A | 4" Offset Mount/Dismount Head                   | N/A      | Opt      | Opt      | Std      |
| EAA0329G27A | Quick-Change Mounting Adaptor                   | Opt      | Opt      | Opt      | Std      |
| EAA0329G95A | Mount/Dismount Head                             | Std      | Std      | Std      | Std      |
| ST4025966   | Bead Depressing Roller                          | Opt      | Opt      | Opt      | Opt      |
| EAA0304G35A | Motorcycle Tire Mounting Head                   | Opt      | Opt      | Opt      | Opt      |
| EAA0247G20A | Plastic Mount/Dismount Head                     | Opt      | Opt      | Std      | Std      |
| EAA0304G37A | Protruding Spoke Mount/Dismount Head            | Opt      | Opt      | Opt      | Opt      |
| EAK0315G48A | Mount/De-Mount Protective Inserts               | Std      | Std      | Std      | Std      |
| EAM0043G53A | Set Screw for EAK0315G48A                       | Std      | Std      | Std      | Std      |
| EAC0078G13A | Push-In-Style Mount/Dismount Protector (1 each) | Std      | Std      | Std      | Std      |
| EAA0247G14A | Motorcycle Bead Breaker Extension               | Opt      | Opt      | Opt      | Opt      |
| EAA0384G58A | Bead Breaker Support Extension                  | Opt      | N/A      | Opt      | Opt      |
| EAA0304G50A | Off-Road Bead Breaker Blade                     | Opt      | Opt      | Opt      | Opt      |
| EAA0304G15A | Protective Cover for Bead Breaker               | Opt      | Opt      | Opt      | Std      |
| EAA0329G74A | Slip-On Pad Motorcycle Tire Bead Breaker        | Opt      | Opt      | Opt      | Opt      |
| EAA0247G02A | Tire Mounting Bar                               | Std      | Opt      | Std      | Opt      |
| EAA0247G04A | Protective Sleeve for EAA0247G02A               | Opt      | Opt      | Opt      | Opt      |
| EAC0097G47A | Wave Tire Tool                                  | Opt      | Std      | Opt      | Std      |
| EAC0115G06A | Protective Sleeve for EAC0097G47A               | Opt      | Opt      | Opt      | Std      |
| EAA0470G38A | Special Truck Tire Lever                        | Opt      | Opt      | Opt      | Std      |
| EAA0332G30A | Bead Roller                                     | N/A      | Std      | N/A      | Std      |
| EAA0304G97A | Bead Roller Lock Pin                            | N/A      | Std      | N/A      | Std      |
| EAA0332G32A | Rod with Tapered Roller                         | Opt      | Opt      | Opt      | Std      |
| EAA0350G39A | Bead Breaker Tool                               | N/A      | Opt      | N/A      | Std      |
| EAA0377G23A | Magic Bead Pusher                               | Opt      | Opt      | Opt      | Std      |
| EAA0358G85A | Bead Holding Clamp                              | Opt      | Opt      | Opt      | Opt      |
| EAA0408G33A | Plastic Rim Protector                           | Opt      | Opt      | Opt      | Opt      |
| EAA0304G52A | 3 pc Plastic Rim Protector                      | Opt      | Opt      | Opt      | Opt      |
| EAA0329G33B | Pneumatic Bead Assist                           | Opt      | N/A      | N/A      | N/A      |
| EAA0304G51A | Roller Board                                    | Opt      | Opt      | Opt      | Opt      |
| EAA0270J11A | Safety Restraint Arm                            | Opt      | N/A      | N/A      | N/A      |
| EAA0304G72A | Safety Restraint Arm                            | N/A      | Opt      | N/A      | N/A      |
| EAA0307G91A | Safety Restraint Arm                            | N/A      | N/A      | Opt      | N/A      |
| EAA0329G30A | Safety Restraint Arm                            | N/A      | N/A      | N/A      | Opt      |
| EAA0329G99A | Inflation Hose Assembly                         | Std      | Std      | Std      | Std      |
| 5-14126A    | Paste Brush                                     | Std      | Std      | Std      | Std      |
| 8-03229A    | Paste Bucket                                    | Std      | Std      | Std      | Std      |



## TPMS Testers

### TPMS4 Tire Pressure Sensor Monitoring System (TPMS)

#### Tool Kit

- Diagnoses Tire Pressure Monitoring (TPM) sensors and determines if a replacement is needed
- Captures TPM sensor data and displays PSI, ID, temperature and battery status
- Relearns vehicle TPM systems by providing vehicle-specific reset procedures when a vehicle's tires have been rotated
- Features vehicle-specific prompts that guide the TPM system relearns following a sensor replacement
- Includes software to program aftermarket TPM sensors
- Works in conjunction with Snap-on® diagnostic platforms to relearn sensor IDs on Asian vehicles
- Provides quick registration of new sensor locations after a tire rotation
- Aftermarket programming software to easily replace TPM sensors with low battery life, one that is non-functioning or to install duplicates in summer/winter tires
- Prints sensor information using TPMSconnect software (included) on a desktop or laptop computer
- Tests key fobs for proper signal strength and battery condition
- Includes replacement TPM sensor part number lookup for OEM and aftermarket sensors
- Daylight-readable 2.8" high-resolution VGA display
- Built-in lithium-ion rechargeable battery and charger included
- Includes a TPMSconnect portal that installs on a PC or laptop, and administers software updates
- Registration of tool through TPMSconnect provides 12 months of access to new software updates as they become available
- After the first 12 months purchased, the TPMS4U update will allow software updates for a 12-month time period
- Works with the following aftermarket programmable sensors: Alligator® sens.it®, BWD® Standard® QWIK-SENSOR™, Dorman® DIRECT-FIT, EZ-sensor®, Dynamic™ DVT Pro Select™, Hamaton® UPro, Huf® IntelliSens®, NAPA® Echlin® QWIK-SENSOR™, Orange SIMPLE SENSOR® and Steelman® Select Sensor
- Technical Support US: 844-349-8767; Canada 855-455-8767

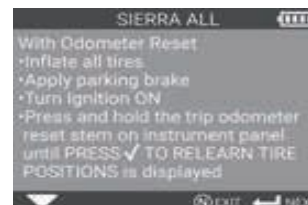


TPMS4



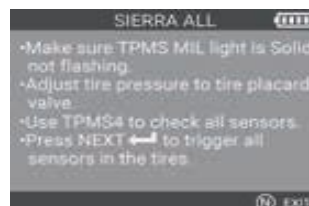
#### Checks TPMS Sensors

Checks sensors and determines if replacement is needed. Captures sensor data including PSI, ID, temperature and battery status.



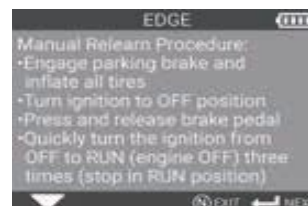
#### Relearn TPM Vehicle Systems

Provides vehicle-specific reset procedures when tires have been changed or rotated.



#### Tire Rotations

Quickly registers new sensor locations after tire rotation..



#### Sensor Replacement

Guides TPM system relearns following sensor replacement..

## Tire Pressure Monitoring System (TPMS) Tool Kits

- High-quality, reliable and accurate torque wrench and torque driver are included
- Complete set; all tools and accessories to work on most vehicle makes/models
- Includes a storage tray for tools and torque products



TPMS500

#### TPMS500 16 pc TPMS (in-lb)

- Torque driver is dedicated for most the popular torque settings: 4, 12 and 35 in-lb
- Torque wrench covers 40–200 in-lb
- QD1R200 also includes a plastic storage case



TPMSN500

#### TPMSN500 16 pc TPMS (Nm/Ncm)

- Torque driver is dedicated for the most popular torque settings: 4 in-lb (45 Ncm), 12 in-lb (135 Ncm) and 35 in-lb (395 Ncm)
- Torque wrench covers 5–25 Nm
- QD1RN25A also includes a plastic storage case



TPMS300

#### TPMS300 15 pc TPMS (in-lb/Ncm)

- Torque driver is dedicated for the most popular torque settings: 4 in-lb (45 Ncm), 12 in-lb (135 Ncm) and 35 in-lb (395 Ncm)
- This set is intended for users that already own a 1/4" drive torque wrench



- Read and follow all safety messages and instructions
- Read safety precautions on pages W1 to W4

## TIRE AND WHEEL: TIRE PRESSURE MONITORING SYSTEM



TPMS3BOX



TPMS3U



TPMS3PRG



TPMS4U



QDTPMS

### QDTPMS Valve Core Torque Tool

- Specifically designed to be used as a core remover and precise installer for TPMS tire valves to eliminate risk of damaging expensive TPMS sensors
- Preset to 4 in-lb to prevent over- or under-torquing
- Preset torque setting also helps prevent valve core leaks that lead to low tire pressure and TPMS alerts



S61112

### S61112 1/4" Drive 6-Point Metric 11 and 12 mm TPMS Flip Socket

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Requires a 1/4" drive extension
- Used to remove and install clamp-in-style TPMS sensors—combined with a torque wrench, this socket allows the technician to precisely install clamp-in-style TPMS sensors



SDMV208

### SDMV208 Tire Valve Bit

- Designed for use with all Snap-on® ratcheting screwdrivers
- Similar to what is covered by the TR107A, TR108, TR1170 screwdrivers
- 1/4" Hex insert bit, 1" length

### TPMS Tools

#### TPMS3BOX TPMS Sensor Bench Tester

- Tests TPMS sensors without having to mount in a tire/wheel assembly
- Pressurizes the sensor to simulate actual conditions
- For use with Tire Pressure Monitoring System tools
- Saves time in mounting/dismounting the tire

#### TPMS3U TPMS3 Software Update

- Includes up to the current model year vehicle coverage: sensor testing, relearn procedures and ECU sensor ID registration
- Troubleshooting menu option assists the technician diagnosing the TPMS
- Improved menu navigation with guided symptom-based TPM sensor tests and system relearn procedure
- Added ECU unlock for Toyota®, Lexus® and Scion® vehicles that have a TPMS dash-reset button
- Part number lookup for OEM and aftermarket sensors
- Software purchase allows user to access new updates for a period of 12 months

#### TPMS3PRG Programmable Sensor Add-on Package

- Programs aftermarket tire pressure sensors
- Used for replacing a sensor with low battery life or one that is non-functioning
- Reduces sensor inventory costs—one sensor covers multiple vehicle applications
- Use to install a duplicate set of sensors in a summer/winter set of tires
- Consists of a 2 GB microSD® card, along with a registration certificate
- Registration certificate contains a code that is entered into webTPM and allows access to sensor programming functionality
- Requires TPMS3 software version CS2-02 or newer to install TPMS3PRG
- TPMS3PRG is a one-time activation to program aftermarket TPM sensors
- Works with the following aftermarket programmable sensors: Alligator® sens.it®, BWD® Standard® QWIK-SENSOR™, Dorman® DIRECT-FIT, EZ-sensor®, Dynamic™ DVT Pro Select™, Hamaton® UPro, Huf® IntelliSens®, NAPA® Echlin® QWIK-SENSOR™, Orange SIMPLE SENSOR® and Steelman® Select Sensor

#### TPMS4U TPMS4 Software License

- Includes up to the current model year OE vehicle coverage, with the addition of new vehicle protocols, increased sensor testing coverage and new relearn procedures
- Added current model year new vehicle platform coverage, such as Chrysler® 300, BMW®, Honda®, Lincoln®, Lexus®, Mazda®, Mercedes-Benz®, Sprinter®, Mitsubishi®, Subaru® and Toyota®
- New aftermarket sensor addition the MAX T.O.T.A.L. Gen 2 Sensor
- Updated aftermarket sensor coverage for the following sensors: Alligator® Sens.it®, Schrader® EZ sensor®, HUF® Intellisens® UVS and ECS, Hamaton® U-Pro, Mobiletron®, Orange Universal, BWD® Standard QWIK-SENSOR™, NAPA® QWIK-SENSOR™, Steelman® Select, PDQ Programmable, MAX T.O.T.A.L Gen 1 Sensor; Dynamic Pro-Select and Mobiletron® Universal
- Part number lookup for OEM and aftermarket sensors
- Trailer TPMS coverage: TPMS by Dill Valve and Retrofit by Schrader®
- Provides the user with a registration code to download the update through TPMSconnect portal
- Software purchase allows the user to access new updates for a period of 12 months

## TIRE AND WHEEL: TIRE PRESSURE MONITORING SYSTEM

### TPMS Tools

#### VSC4KT ‡ 4 pc TPMS Valve Stem Cap Set (Blue-Point®)

- Quickly evacuates air without removing valve cores
- Used for replacing a standard-sized valve cap, will depress the valve stem for rapid deflation
- Return the wheels to the original position without resetting the TPMS
- Caps are clearly marked for easy identification for the reinstall
- Blue anodizing makes the caps easily visible on most rims or tires
- Knurling provides a sure grip even in greasy situations
- Back side of the tool allows for valve cap storage while the tools are in use
- Vinyl holder is included to keep valve stem caps together when not in use
- Includes (4) valve stem caps

#### VSC4KT-1 TPMS Valve Stem Cap

#### VSC4KT-2 TPMS Valve Stem Cap

#### VSC4KT-3 TPMS Valve Stem Cap

#### VSC4KT-4 TPMS Valve Stem Cap



VSC4KT



VSC4KT-1

## TIRE AND WHEEL: TIRE PRESSURE GAUGES

### Dial Type Pressure Gauges

#### TPRG60 ‡ TPMS/Racing Tire Gauge (Blue-Point®)

- Ideal for applications requiring precise readings, such as TPMS gauge testing and performance driving
- PowerFlex® movement is both durable and accurate
- ±1% accuracy

#### TPG15 ‡ Low-Pressure Tire Gauge (Blue-Point®)

- Low-pressure gauge for ATVs, lawnmowers, motorcycle fork tubes and more
- Unique design offers superior shock resistance: movement from socket is isolated, reducing effects of shock
- Silicone-dampened gears and enhanced vibration-dampening design cushion movement for extended gauge service
- Clear, concise, easy-to-read 1–15 PSI gauge displays in 1/4 PSI increments
- ±1% accuracy

#### PG160 ‡ Dial Type Pressure Gauge (Blue-Point®)

- Calibrated in 2 PSI increments from 10–160 PSI
- 2-1/2" dia. dial gauge with shock-resistant gauge movement
- 12" flex for hard-to-reach valves (16" with chuck)
- Bleeder valve relieves excess pressure to achieve proper inflation
- Dual foot chuck; 1% accuracy

#### PG60 ‡ Dial Type Pressure Gauge (Blue-Point®)

- 12" flex hose and bleeder valve
- 1% accuracy
- Swivel angle chuck
- Dual scale pressure range 60 PSI (410 kPa)
- Ideal for automobile and light truck service



TPRG60



TPG15



PG160



PG60



- Do not exceed rated pressure
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## TIRE AND WHEEL: TIRE PRESSURE GAUGES/INFLATORS



TGIFS1



TIF160



TPGIF1600A



TIFHD160



TPGDL1000C

### Inflators

#### TGIFS1 ‡ 20–160 PSI Tire Gauge Inflator

- Snap-on® exclusive design
- Heavy-duty billet-machined aluminum body for durability
- Dual-swivel-point hose for ease of use/accessing tight areas
- 20–160 PSI range
- Modular design for easy replacement of worn parts
- Double sealed scale avoids contamination from the air supply
- ±1% accuracy

#### TIF160 ‡ Tire Pressure Gauge/Inflator (Blue-Point®)

- 1% accuracy allows for use on vehicles equipped with TPMS sensors
- Shorter hose and body length make this gauge ideal for use on cars and light trucks
- Rugged dial and plunger-style mechanism preserve gauge accuracy when dropped
- Stainless steel braided hose
- 6–160 PSI (60–1,100 kPa) range
- Lifetime warranty

#### TPGIF1600A ‡ Tire Gauge and Inflator (Blue-Point®)

- In 2 lb increments from 10–120 PSI
- 1/4" FNPT air inlet fitting
- Swiveling hose for easy gauge positioning
- Zinc body with heavy-duty brass valves
- Easy-to-read sight glass featuring PSI and kPa readings
- ±1% accuracy

#### TIFHD160 ‡ Truck Tire Inflator (Blue-Point®)

- Inflates heavy-duty truck tires quickly and safely
- 6–160 PSI (40–1100 kPa) range
- Includes a 14" dual foot budd chuck with locking threads
- High-quality 48" extended rubber hose (tested to 300 PSI)
- 1/4" NPT brass fitting for inlet air connection
- 360° swiveling gauge for easy reading
- Rubber gauge guard for added shock resistance
- Rugged geared gauge construction for added durability (not bourdon tube like most dial gauges)
- 48" hose and chuck allow a tire technician to stand outside of the trajectory zone as noted in OSHA1910.177 standards, servicing multi-piece and single piece rim wheels (sufficient length of hose is required between the chuck and valve)

#### TPGDL1000C ‡ Digital Inflator with Coated Hose (Blue-Point®)

- In 0.1 PSI increments from 5–150 PSI
- Vinyl-coated, braided stainless steel hose for increased strength, flexibility and protection from scratching
- Backlit display, with PSI, kPa, bar and kg/m<sup>2</sup>
- Includes dual-foot and clip-on chucks
- 1/4" NPT hose ends for easy use with any open chuck
- Three-position trigger allows the user to quickly read, inflate and bleed off tire pressure with one hand
- Rubber body prevents damage when dropped



TPGD150



TPGDL150

### Digital Tire Pressure Gauges

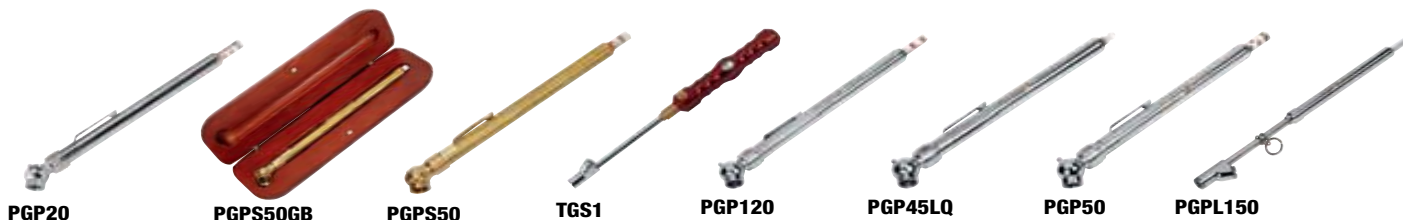
#### TPGD150 ‡ Digital Tire Pressure Gauge (Blue-Point®)

- In 0.5 PSI increments from 5–150 PSI
- Flexible 11" braided hose with dual foot chuck helps access hard-to-reach tire valves
- Black ribbed gauge guard provides a sure gripping surface and helps protect the gauge if dropped
- Auto shut-off extends the battery life
- 1% accuracy

#### TPGDL150 ‡ Digital Tire Pressure Gauge (Blue-Point®)

- Backlit for easier measurement reading
- Auto shut-off extends the battery life
- 5–150 PSI reading
- Shockproof rubber guard to prevent damage when dropped
- Molded finger grips for added comfort
- Heavy die-cast faceplate
- Includes a steel belt clip and batteries
- ±1% accuracy

## TIRE AND WHEEL: TIRE PRESSURE GAUGES



### Pencil Tire Pressure Gauges

#### PGP20 † Pencil Tire Pressure Gauge (Blue-Point®)

- 20 PSI pencil gauge for low-pressure applications
- 0.5 PSI accuracy for the full range of scale
- Laser-engraved barrel
- Full metal body construction
- Pocket clip holds the gauge securely in a pocket
- Ideal for ATVs and riding mowers

#### PGPS50GB † Master's Choice Pencil Tire Pressure Gauge in Solid Maple Box

- Durable brass construction promotes longevity and resists corrosion
- ±1% accuracy exceeds ANSI® standards and allows for use on vehicles with TPMS sensors
- Dual scale measures from 5–50 PSI and from 34.4–344.7 kPa
- Solid-maple box protects and showcases this high-quality gauge

#### PGPS50 † Master's Choice Pencil Tire Pressure Gauge

- Tire pressure gauge only
- ±1% accuracy exceeds ANSI® standards and allows for use on vehicles with TPMS sensors
- Dual scale measures from 5–50 PSI and from 34.4–344.7 kPa

#### PGPS50-BOX Master's Choice Box (Solid Maple)

- Wooden box only

#### TGS1 † Sight Glass Test Gauge

- Accurate enough to use for TPMS applications
- Rugged sight glass design for better durability and readability
- 1% Master Gauge Accuracy, with certificate of accuracy included
- Durable billet machined 6061-T6 aluminum body
- Dual-foot Budd chuck
- 10–160 PSI
- Unique comfort grip for easy use
- Can be calibrated in the field (instruction included)

#### PGP120 † Pressure Gauge (Blue-Point®)

- Calibrated in 2 PSI increments from 10–120 PSI and in 10 kPa increments from 100–800 kPa
- Chrome body
- 1% gauge accuracy
- 5-3/4" long

#### PGP45LQ † Air Liquid Pressure Gauge (Blue-Point®)

- Calibrated in 1 PSI increments from 5–45 PSI
- Can be used on any standard or liquid solution-filled tires
- Spring retracts into the gauge, causing a pump action to expel tire liquid
- Chrome body
- 1% gauge accuracy
- 5-15/16" long

#### PGP50 † Pencil Tire Pressure Gauge (Blue-Point®)

- Calibrated in 1 PSI increments from 5–50 PSI and 5 kPa increments from 50–350 kPa
- Chrome body
- 1% gauge accuracy
- 5-3/4" long

#### PGPL150 † Pencil Tire Pressure Gauge (Blue-Point®)

- Calibrated in 2 PSI increments from 10–150 PSI
- Straight dual-foot for Budd-style truck tires
- 30° angle reverse foot assists in hard-to-reach areas
- Includes a hanging clip
- Chrome body
- 1% gauge accuracy
- 12" long

#### PGP150LB † Large Bore Tire Pressure Gauge (Blue-Point®)

- Gauge has a working range of 10–150 PSI (80–1,020 kPa)
- Full Scale accuracy within 1%
- Durable chrome-plated brass construction
- Calibrated in 2 PSI increments
- 7-1/2" long

## AIR CHUCKS



GAOC356



GAOC460



TPDFOC14



TPLOC2

### Open Air Chucks

FOR USE ON INFLATORS ONLY. DO NOT USE ON AIR LINES.

#### GAOC356 † Dual-Foot Air Chuck (Blue-Point®)

- 1/4"-18 female NPT with 5/8" hex nut
- Straight foot works well on Budd-style wheel rims
- 30° angle reverse foot is helpful in limited-access situations
- 6-1/2" long

#### GAOC460 † Dual-Foot Air Chuck (Blue-Point®)

- 1/4"-18 female NPT
- 6-1/8" long

#### TPDFOC14 † Long-Reach Dual-Foot Air Chuck (Blue-Point®)

- 14" long-reach dual chuck
- Straight-on chuck with 30° reverse chuck
- All metal components
- Works well for reaching dual-wheel truck tires
- Compatible with Snap-on® and Blue-Point® inflators

#### TPLOC2 † Heavy-Duty Air Chuck (Blue-Point®)

- 1/4" NPT open-style air chuck
- Heavy-duty coupling-style teeth for a secure lock on all tire valves
- Full-metal one-piece construction for added durability
- Secure connection to all standard sized Schrader valves found on cars, trucks, motorcycles, RVs, and light-duty tractors
- For use on tire inflators



- Do not exceed rated pressure
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR CHUCKS



GA356B



GA460B



GA296B



GA358B



GA359B



YA173B



TPDF14A



TPLBC



TPLBLC



TPCLRA

### Closed Air Chucks

FOR USE WITH AIR LINES ONLY. DO NOT USE ON INFLATORS.

#### GA356B ‡ Dual-Foot Air Chuck (Blue-Point®)

- 1/4"-18 female NPT with 5/8" hex nut
- Straight foot works well on Budd-style wheel rims
- 30° angle reverse foot is helpful in limited-access situations
- 6-1/2" long

#### GA460B ‡ Dual-Foot Air Chuck (Blue-Point®)

- 1/4"-18 female NPT
- 6-1/8" long
- Maximum rating is 150 PSI
- For use with air lines only, do not use on inflators

#### GA296B ‡ Angled Air Chuck (Blue-Point®)

- 1/4"-18 female NPT
- Rubber gasket is included
- Maximum rating is 150 PSI

#### GA358B ‡ Instinct® Handle Air Chuck

- Features a comfortable Instinct® screwdriver-style handle
- Thread size of 1/4" NPT
- 7" overall length
- Maximum rating is 150 PSI

#### GA359B ‡ Instinct® Handle Air Chuck Dual Foot

- Features a comfortable Instinct® soft-grip screwdriver handle
- Dual-foot chuck easily accesses hard-to-reach inner tandem wheels
- 30° reverse angle chuck can be used on outside tires
- Thread size of 1/4" MNPT
- 12" overall length

#### YA173B ‡ Clip-On-Style Angled Air Chuck (Blue-Point®)

- 1/4"-18 female NPT
- Spring-loaded, trigger-operated valve stem clip
- Maximum operating pressure is 200 PSI

#### TPDF14A ‡ Long-Reach Dual-Foot Air Chuck (Blue-Point®)

- 14" long-reach dual chuck
- Straight-on chuck with 30° reverse chuck
- All-metal components
- Works well for reaching dual-wheel truck tires
- Compatible with Snap-on® and Blue-Point® inflators

#### TPLBC Large-Bore Air Chuck

- Heavy-duty air chuck for large-bore tires
- Closed chuck for use on live air lines
- 175 PSI maximum working pressure
- Durable brass body with a plated finish
- 1/4" FNPT

#### TPLBLC Clip-On-Style Large Bore Air Chuck

- Heavy-duty lock-on air chuck for large bore tires
- Closed chuck for use on live air lines
- Locking collar for a secure valve stem connection
- 175 PSI maximum working pressure
- Durable brass body with a plated finish
- 1/4" FNPT

#### TPCLRA Right-Angle Air Chuck

- Low-profile right-angle design easily accesses hard-to-reach valve stems
- Ideal for motorcycles and ATV tires
- Closed chuck for use on live air lines
- 175 PSI maximum working pressure
- Durable brass body with a plated finish
- 1/4" FNPT

## TREAD DEPTH TOOLS



TDG1



TDG2

### Tread Depth Gauges

#### TDG1 ‡ Tread Depth Gauge (Blue-Point®)

- Sliding gauge is colored coded, making it easy to identify when it is time for a new tire
- Measures to a depth of 1" in 1/32" increments
- Plastic body with an aluminum probe and sliding gauge
- Includes pocket clip

#### TDG2 ‡ Dial-Type Tread Depth Gauge

- Oversized dial allows for much easier reading than stick-type tread depth gauges
- Geared interior movement for increased ruggedness
- Reads in 1/32" increments and has a color-coded dial design

## VALVE CORE TOOLS



### Valve and Stem Tools

- Durable alloy steel for long life
- Specialized heat treatment for consistent quality
- Precision-milled tip geometry for optimal fastener engagement

#### TR107A\* Tire Valve Tool

- Designed to install and remove standard tire valve cores
- Larger screwdriver-style handle
- Comfortable, durable acetate handle
- 6-1/4" long

#### TR108 Tire Valve Core Tool

- Designed to install and remove standard tire valve cores
- Larger screwdriver-style handle
- Comfortable, durable acetate handle
- 4-3/4" long

#### TR109 Valve Core Tool

- Used to remove or replace valve cores on A/C systems (large bore)
- 6-3/4" long

#### TR1170 Valve Core Remover/Installer Tool

- Designed to install and remove standard tire valve cores
- 6-1/4" long

#### VT14 Universal Valve Core Tool (Blue-Point®)

- Double-ended bit removes and installs large and small valve cores
- Double-ended wrench in the tool body reverses to fit both large and small valve cores
- Cup end removes valve caps

#### GA143C Valve Core and Stem Tool (Blue-Point®)

- Four-function tool inserts and removes cores, taps inner stem threads and chases outer threads
- 1-7/8 x 13/16"

#### VT1B ‡ Valve Stem Puller

- Vinyl spacer protects rims
- Simplifies inserting any tubeless tire valve
- Swivel head screws onto the cap thread of the tire valve
- Handle is used as a lever to pull the tire valve into the rim hole

#### Colors Available



\* R O G  
ADD SUFFIX TO STOCK NUMBER  
FOR SPECIAL COLORS

## TIRE AND WHEEL: WHEEL TORQUE TOOLS

### Torque Extensions

- Help eliminate over-torqued lug nuts, broken or damaged studs and distortion of rotors, drums and wheels
- Color-coded low friction sleeve for quick reference
- Cold-formed special-alloy steel for greater accuracy and strength
- 1/2" male and female square drive for use with the appropriate impact socket
- Female square drive is designed for improved retention on impact wrenches
- Male square drive has a friction ring for secure socket retention

| Stock No. | Color  | Torque Limit, ft-lb |   |
|-----------|--------|---------------------|---|
| TSKT65A   | Yellow | 65                  | • |
| TSKT80A   | Blue   | 80                  | • |
| TSKT100A  | Gray   | 100                 | • |
| TSKT120A  | White  | 120                 | • |
| TSKT140A  | Teal   | 140                 | • |

Set  
Contains:

305TSKTA



305TSKTA

Set shown includes storage case.



- Read and follow all safety messages in instructions
- Check final torque on lug nuts with a torque wrench
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## TIRE AND WHEEL: LUG/RETAINING NUT SOCKETS

### Lug Nut Sockets

#### LSR1500 Standard/Twist Wheel

##### Flip Socket Set (Blue-Point®)

- (6) sockets for use on the most popular lug nut sizes: 17 mm, 19 mm, 3/4", 21 mm, 13/16" and 7/8"
- 6-point Flank Drive® wrenching system at one end and a six-fluted twist socket for removal of damaged wheel lugs at the other end
- Socket flips when encountering a damaged head
- Knurling identifies the twist socket end
- Sockets and 3-1/2" extension are all 1/2" drive for use with hand drivers or impact wrenches
- Black oxide finish
- Includes a storage case



LSR1500

#### LSR2000 3 pc 1/2" Square Drive Thin Wall Wheel Flip Socket Set (Blue-Point®)

- Covers the four most popular lug nut sizes: 3/4 and 13/16", 7/8 and 15/16" and 19 and 21 mm
- Flank Drive® wrenching configuration
- 1/2" square drive is located at the center of the socket
- For use with a hand driver or impact wrench
- Includes (2) lug nut sockets and a 3-1/2" extension
- Black industrial finish
- Includes a storage case



LSR2000

#### LSR2000PLUS 3 pc 1/2" Square Drive Lug Nut Flip Socket Set (Blue-Point®)

- Includes (3) lug nut flip sockets: 3/4 and 13/16", 7/8 and 15/16" and 19 and 21 mm
- All sockets are 3" long
- 1/2" square drive is located at the center of the socket
- Use with a hand driver or impact wrench
- Includes a storage case
- Black industrial finish on all components
- Requires the use of optional LSR1000EXT extension (not included)



LSR2000PLUS

#### LSR2500 Lug/Lock Flip Twist Socket Set (Blue-Point®)

- Quickly and easily remove damaged wheel lugs (six-flute end) or damaged wheel locks with damaged or lost keys (12-flute end)
- 1/2" square drive is located at the center of the socket
- Used with a hand driver or impact wrench
- Includes LSR2501 and LSR2502 lug/lock sockets and a 3-1/2" extension in a custom case
- Black industrial finish



LSR2500

#### LSR2500PLUS 3 pc 1/2" Square Drive Lug/Lock Flip Twist Socket Set (Blue-Point®)

- Quickly and easily remove damaged wheel lugs (six-flute end) or damaged wheel locks with damaged or lost keys (12-flute end)
- 1/2" square drive is located at the center of the socket
- Uses with hand driver or impact wrench
- Includes (3) lug/lock sockets
- Black industrial finish
- LSR1000EXT is an optional 3" extension for the set
- Includes a storage case



LSR2500PLUS

#### LSRM2000 Metric Flip Socket Set (Blue-Point®)

- Includes LSR1580 and LSR1450 sockets plus the LSR1000-EXT 3" extension
- Designed for 2005—later vehicles
- Includes 17 mm, 19 mm, 21 mm and 22 mm sizes
- Applications: Dodge® RAM® 1500, Dodge® SRT-10, Honda® Odyssey®, Land Rover® L3, Range Rover® and Sport, Lexus® LX470 and Toyota® Land Cruiser® vehicles



LSRM2000

#### LSR1150 1/2" Square Drive SAE 3/4 and 13/16" Thin Wall Wheel Flip Socket (Blue-Point®)

- Thinwall wheel flip socket covers 3/4 and 13/16" wheel lug sizes
- For use with a hand driver or impact wrench
- 3" long



LSR1150

#### LSR1250 1/2" Square Drive Metric 19 and 21 mm Thin Wall Wheel Flip Socket (Blue-Point®)

- Thinwall wheel flip socket covers 19 and 21 mm wheel lug sizes
- For use with a hand driver or impact wrench
- 3" long



LSR1250

#### LSR1580 1/2" Square Drive Metric 21 and 22 mm Thin Wall Wheel Flip Socket (Blue-Point®)

- Thinwall wheel flip socket covers 21 and 22 mm wheel lug sizes
- For use with a hand driver or impact wrench
- Requires the use of optional LSR1000EXT extension
- 3" long



LSR1580

#### LSR1560 Flip Socket (Blue-Point®)

- 7/8" and 1" socket size: 3" long
- For use with a hand driver or impact wrench
- Expands LSR2000 and LSR2000PLUS sets
- Requires use of the LSR1000EXT extension (not included)
- 1/2" square drive is located at the center of the socket
- Applications: (7/8") Chevy®, GMC® vans, Dodge® Ram® 1500, Ford® E-250/E-350, Ford® Super-Duty, Hummer® H1, Lincoln® Blackwood®, Lexus® LX470, Toyota® Land Cruiser, Jaguar® XJ Series, (7/8 and 1") Chevy®/GMC® pickups and SUVs, (1") Plymouth® 1 ton vans



LSR1560

#### LSR1570 Flip Socket (Blue-Point®)

- 15/16 and 1-1/16" socket size: 3" long
- For use with a hand driver or impact wrench
- Expands LSR2000 and LSR2000PLUS sets
- Requires use of the LSR1000EXT extension (not included)
- 1/2" square drive is located at the center of the socket
- Applications: (15/16") Dodge® Ram® 2500, 3500, (1-1/16") Land Rover®, Range Rover® Discovery II, Ford® E-300/E-350, Ford® F-300/F-350



LSR1570

#### LSR1450 Thin Wall Wheel Flip Socket (Blue-Point®)

- Covers 17 and 19 mm wheel lug sizes
- Flank Drive® wrenching configuration
- 1/2" square drive is located at the center of the socket (requires optional extension LSR1000EXT)



LSR1450

- Ideal companion to the LSR2000 and LSR2000PLUS
- Black industrial finish
- Major O.D.: 1.03" (26.3 mm)
- Minor O.D.: 0.94" (23.9 mm)
- Length: 3" (76.2 mm)

#### LSR2501 Lug/Lock Flip Twist Socket (Blue-Point®)

- 3/4" (19 mm) twist socket quickly and easily removes damaged wheel lugs (six-flute end) or damaged wheel locks with damaged or lost keys (12-flute end)
- For use with a hand driver or impact wrench
- Black industrial finish
- 2-5/8" overall length



LSR2501

#### LSR2502 Lug/Lock Flip Twist Socket (Blue-Point®)

- Same as LSR2501 except in 7/8" size



LSR2502

#### LSR2503 Lug/Lock Flip Twist Socket (Blue-Point®)

- Same as LSR2501 except in 17 mm size



LSR2503



# TIRE AND WHEEL: LUG/RETAINING NUT SOCKETS



## Lug Nut Sockets

### TSR1000 Lug Nut Socket Set (Blue-Point®)

- Includes TSR500 and TSR600 Lug Nut Sockets, plus YA1005-7 Extractor Punch
- TSR500 is for use on late-model OEM and aftermarket lug nuts
- Dual-sided design allows for use on 3/4", 13/16", 19 mm and 21 mm lug nuts
- TSR600 removes most locking lug nuts and has a two-in-one flip socket design
- For use with 1/2" drive tools
- Fluted socket design provides extra grip

### 2003LN 3 pc 1/2" Drive Double-Ended Lug Nut Socket Set

- Includes (2) double-ended lug nut sockets and a 3" extension bar

### TSR1230 Lug Nut Removal Socket Set (Blue-Point®)

- Includes TSR1240, TSR1250, TSR1260 and TSR1270 Dual Flip Sockets, plus a YA1005-7 Extractor Punch in a custom vinyl bag
  - Works great on lugs that are rusted or have missing caps
- ### YA1005C Locking Lug Nut Removal Kit (Blue-Point®)
- Removes locking lug nuts and locking hubcaps on most vehicles, including the new Chrysler® hubcap locks
  - Updated set includes a new turbo lug nut socket to easily remove damaged 3/4", 13/16", 19 and 21 mm lug nuts
  - Tapered swirl in the socket bites into a damaged lug nut for quick removal
  - Intended for hand use only except for the turbo lug nut socket, which should be used with an impact wrench

### A98A 1/2" Square Drive 6-Point SAE Lug Nut Socket

- 1/2" square drive is recessed between (2) six-point wrench openings: 3/4" and 13/16"
- 2-3/4" long, 13/16" dia

### A98M 1/2" Square Drive 6-Point Metric Lug Nut Socket

- 1/2" square drive is recessed between (2) six-point wrench openings: 19 and 21 mm
- 2-3/4" long, 13/16" dia

### DW402C 3/4" Drive 6-Point SAE 1-1/4" Dayton Lug Nut Impact Socket

- For use with socket retainers

### SLSM1922A 1/2" Drive 19/22 mm Impact Flip Socket

- Used to remove 19 and 22 mm lug nuts and bolts on a wide range of vehicles
- Manufactured from special steel with a higher alloy content
- Precision machined and heat treated for optimum strength and durability
- 1/2" drive socket employs Flank Drive® technology with a single hex design on both ends
- Industrial finish helps protect against corrosion

### TSR1240 Lug Nut Removal Socket (Blue-Point®)

- 21 mm/21.5 mm socket for use in Chrysler® and Dodge® applications

### TSR1250 Lug Nut Removal Socket (Blue-Point®)

- Dual flip 1/2" drive impact socket design
- Removes lug nuts with missing or distorted caps
- 19.5 mm side fits distorted 19 mm chrome caps found on many GM® and Chrysler® vehicles
- 18.5 mm side fits rusted lug nuts missing chrome covers

### TSR1260 1/2" Drive Metric 22 and 22.5 mm Dual-Flip Lug Nut Removal Impact Socket (Blue-Point®)

- Works great on lugs that are rusted or have missing caps
- For use on Dodge® 16–17" aluminum wheels

### TSR1270 Lug Nut Removal Socket (Blue-Point®)

- 1-1/16"/27.5 mm socket for use in Range Rover® and Land Rover® applications

### TSR500 Lug Nut Remover Socket (Blue-Point®)

- For use on late-model OEM and aftermarket lug nuts
- Dual-sided design for use on 3/4", 13/16", 19 and 21 mm lug nuts
- For use with a 1/2" drive impact wrench
- Fluted socket design helps remove stubborn lug nuts
- Includes an extractor punch

### TSR600 Locking Lug Nut Socket (Blue-Point®)

- 1/2" square drive is located in the center of the socket
- Included pin dislodges lug nut if it is wedged in the socket
- Removes most locking lug nuts and has two-in-one flip socket design
- For use with an impact wrench
- Fluted for extra grip

### TSR700 Lug Nut Remover Socket (Blue-Point®)

- For use on late-model OEM and aftermarket lug nuts
- Dual-sided design for use on 7/8", 1", 22 and 25 mm lug nuts
- For use with a 1/2" drive impact wrench
- Six-flute socket design helps remove the most stubborn hex lug nuts

### TSR800 Lug Nut Remover Socket (Blue-Point®)

- For use on late-model OEM and aftermarket lug nuts
- Dual-sided design for use on 7/8", 1", 22 and 25 mm lug nuts
- For use with a 1/2" drive impact wrench
- Six-flute socket design helps remove the most stubborn hex lug nuts

### YA1005-7 Punch

- Pin is used to dislodge a lug nut if it is wedged in the socket



• Read safety precautions on pages W1 to W4

## TIRE AND WHEEL: LUG/RETAINING NUT SOCKETS



STXL80E

### Wheel Stud Sockets

#### STXL80E 1/2" Drive TORX® T80 Long Bit Socket Driver

- Bit design is longer for removing and installing wheel studs without damaging the rims
- Cold-formed socket for a strong, durable tool
- Chrome plating resists corrosion and cleans easily
- Uses STXL80E2 Replacement Bit



203FLSM

### Lug Nut Sockets, 3/8" Drive

| Stock No. | Square Drive, inches | Wrench Size, mm | Overall Length, inches |
|-----------|----------------------|-----------------|------------------------|
| FLS2426   | 3/8                  | 3/4 and 13/16   | 3                      |
| FLSM1719  | 3/8                  | 17 and 19       | 3                      |
| FLSM2122  | 3/8                  | 21 and 22       | 3                      |

#### 203FLSM 3 pc 3/8" Drive Lug Nut Socket Set

- Includes FLSM1719 (17/19 mm), FLSM2122 (21/22 mm) Metric Flip Lug Nut Sockets and an IMX31 Impact Extension

#### SIMML210 Lug Nut Socket

- Long socket is designed to fit lug nut applications where an extension is needed
- Flank Drive® wrenching configuration grips the fastener on the flanks/flats, increasing the torque by up to 15-20%
- Forged from tough alloy steel to increase safety and are heat treated to a lower hardness to add impact resistance and ductility
- 1 pc design



SIMML210

### Lug Nut Sockets, Magazine Loading

- Allows easy multiple lug nut removal of up to five lug nuts at a time
- Eliminates rolling or lost lug nuts and wasted motion
- Ideal for use in tire and brake shops
- Adjust type 9, 12 and 16 cu-in air chambers that are equipped with 1/2 to 20" threaded rod and 3/4" nut



LMS24

| Stock No. | Wrench Size  | Square Drive, inches | Outside Dia., inches | Overall Length, inches |
|-----------|--------------|----------------------|----------------------|------------------------|
| LMS24     | 3/4" (19 mm) | 1/2                  | 1                    | 5-5/16                 |

### Wheel Lock Sockets

#### LSR1000A Wheel Lock Removal Socket Set (Blue-Point®)

- Easily removes most lug nuts and wheel locks on most US and import passenger vehicles and light trucks
- For use with a hand driver or impact wrench
- Some sockets cover specific GM®, Ford® and Chrysler® applications
- Set includes (11) sockets, extension and an extractor punch in a storage case



LSR1000A



IMX32B

### Extensions/Snap Ring Retention, Industrial

#### IMX32B 1/2" Drive 3" Snap Ring Impact Extension

- Snap-on® impact extensions are heat treated to optimize impact service life with a lower hardness and able to withstand repeated cycling loads of impact wrenches
- Snap-on uses a proprietary blend of special alloy steel that provides long life and great strength

### Torque Wrenches

#### BRUTUS3R300 1/2" Drive Adjustable Click-Type Torque Wrench (60-300 ft-lb)

- Expanded range allows extended coverage with the 1/2" drive tool servicing a majority of vehicles and large pickup trucks
- Gives the user additional range in applying torque and angle on high-torque applications
- Stamped scale (ft-lb) offers better permanency and visibility
- Features heavy-duty components; thicker diameter main tube, cam and internal components for strength and durability
- Accuracy is ±6% CW and CCW



BRUTUS3R300

### ISO/IZO Ratchet Head Inserts



IZFRAT9X12

IZLRAT14X18

| Stock No.   | Description                  | Square Drive inches (mm) | Width, mm | Insert Size, mm | Max Recommended Working Torque, N•m |
|-------------|------------------------------|--------------------------|-----------|-----------------|-------------------------------------|
| IZTRAT9X12  | ISO/IZO Ratchet Head Inserts | 1/4 (6)                  | 37        | 9 x 12          | 25                                  |
| IZFRAT9X12  | ISO/IZO Ratchet Head Inserts | 3/8 (10)                 | 38        | 9 x 12          | 160                                 |
| IZSRAT9X12  | ISO/IZO Ratchet Head Inserts | 1/2 (13)                 | 38        | 9 x 12          | 160                                 |
| IZSRAT14X18 | ISO/IZO Ratchet Head Inserts | 1/2 (13)                 | 40        | 14 x 18         | 265                                 |
| IZLRAT14X18 | ISO/IZO Ratchet Head Inserts | 3/4 (19)                 | 40        | 14 x 18         | 960                                 |

# TIRE AND WHEEL: LUG/RETAINING NUT SOCKETS



## Wheel Hangers

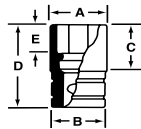
Allow faster, safer and easier balancing of wheels when attempting to insert and tighten wheel bolts.

| Stock No. | Thread Size | Hex Size, mm | Applications  | Set Contains: |
|-----------|-------------|--------------|---|---------------|
| WHM1      | M12 x 1.5   | 10           | Mercedes-Benz®, BMW®, MINI®, Cadillac® Catera and Chrysler® Crossfire                             | •             |
| WHS1      | M14 x 1.5   | 15           | Current Mercedes-Benz®, Current Dodge® Sprinter® Trucks, 2002–2004 Freightliner® Sprinter® Trucks |               |
| WHV1      | M14 x 1.5   | 10           | Volkswagen®, Audi®, Mercedes-Benz® ML Class, BMW® 7 and X5 Series and Porsche®                    | •             |
| WHB1      | M14 x 1.25  | 10           | 2009–Current BMW® and MINI® Vehicles  | •             |
| WHD1      | M12 x 1.25  | 10           | 2012–2014 Dodge® Dart, 2015 Chrysler® 200 and 2014 Jeep® Cherokee® Vehicles                       | •             |
| WHM2      | M12 x 1.5   | 10           | Mercedes-Benz® and BMW®   |               |
| WHS2      | M14 x 1.5   | 15           | Dodge® Sprinter® and Freightliner®  |               |
| WHV2      | M14 x 1.5   | 10           | VW®/Audi®   |               |
| WHP1      | M16 x 1.5   | 15           | 2015–2016 Dodge® ProMaster Van  |               |

# TIRE AND WHEEL: AXLE NUT SOCKETS



305SIMMY



305SIMMY

Deep, mm

Set Contains:

| Stock No. | Size, mm | A    | B    | C    | D    | E    |   |
|-----------|----------|------|------|------|------|------|---|
| SIMM290   | 29       | 41.3 | 41.3 | 71.6 | 88.9 | 21.3 | • |
| SIMM300   | 30       | 42.9 | 42.9 | 71.6 | 88.9 | 21.6 | • |
| SIMM340   | 34       | 49.3 | 49.3 | 72.8 | 88.9 | 22.6 | • |
| SIMM350   | 35       | 50.8 | 50.8 | 72.8 | 88.9 | 22.9 | • |
| SIMM360   | 36       | 50.8 | 50.8 | 72.8 | 88.9 | 22.9 | • |

## 1/2" Square Drive

Used with a torque wrench to service truck wheel bearing lock nuts.



ANS1938

| Stock No. | Nominal Size | Style   |
|-----------|--------------|---------|
| ANS1937*  | 2-1/2"       | 6-Point |
| ANS1938   | 2-3/4"       | 6-Point |
| ANS1939*  | 2-3/8"       | 6-Point |

\*Fits special "rounded" hex nuts on Dana® axles of some Ford® trucks.

## 3/4" Square Drive

| Stock No.  | Nominal Size   | Style   |
|------------|----------------|---------|
| ANS1900B   | 2-1/8" (54 mm) | 6-Point |
| ANS1933A** | 59 mm          | 6-Point |
| ANS1901A   | 2-3/32"        | 6-Point |
| ANS1920A   | 2-1/4"         | 6-Point |
| ANS1902A   | 2-3/8"         | 6-Point |
| ANS1903A   | 2-3/8"         | 8-Point |
| ANS1921A   | 2-1/2"         | 6-Point |
| ANS1928A*  | 2-9/16"        | 6-Point |
| ANS1904A   | 2-9/16"        | 6-Point |
| ANS1905A   | 2-9/16"        | 8-Point |
| ANS1922A   | 2-5/8"         | 6-Point |
| ANS1923A   | 2-3/4"         | 6-Point |
| ANS1924A   | 2-3/4"         | 8-Point |
| ANS1926A   | 2-13/16"       | 8-Point |
| ANS1932A   | 2-7/8"         | 6-Point |
| ANS1906A   | 3"             | 6-Point |
| ANS1907A   | 3"             | 8-Point |

| Stock No. | Nominal Size | Style   |
|-----------|--------------|---------|
| ANS1908A  | 3-1/4"       | 6-Point |
| ANS1909A  | 3-1/4"       | 8-Point |
| ANS1910A  | 3-1/2"       | 6-Point |
| ANS1911A  | 3-1/2"       | 8-Point |
| ANS1925A  | 3-3/4"       | 8-Point |
| ANS1927A  | 3-13/16"     | 8-Point |
| ANS1912A  | 3-7/8"       | 6-Point |
| ANS1913A  | 3-7/8"       | 8-Point |
| ANS1914A  | 4"           | 6-Point |
| ANS1915A  | 4-1/8"       | 6-Point |
| ANS1916A  | 4-3/8"       | 6-Point |
| ANS1917A  | 4-3/8"       | 8-Point |
| ANS1918A  | 4-7/8"       | 6-Point |
| ANS1919A  | 4-7/8"       | 8-Point |



ANS1900B



ANS1933A

\*Fits special "rounded" hex nuts on Dana axles of some Ford trucks.

\*\*For 1/2 ton vehicles with automatic locking nuts. Designed for late model Ford vehicles. 3/4" square drive, 59 mm nominal size. Industrial finish.



• Read safety precautions on pages W1 to W4

## TIRE AND WHEEL: AXLE NUT SOCKETS



S8695C



S6146



S6109A

### Retaining Nut Sockets

#### S8695C Axle Nut Socket 4 Lug

- 1/2" square drive; 3-3/4" long
- For 1/2-ton vehicles with manual locking nuts
- For use on the front wheel bearing retaining nut on a Dana® 44 Series axle used on 1959–later GM®, Ford®, Dodge® and AMC®
- Industrial finish
- Railroad applications: Used to install or remove the point detector bushing found on WABCO-M23B switch machines

#### S6146 1/2" Square Drive Axle Nut Socket 4 Lug

- Used for the front wheel bearing retaining nut on 3/4-ton vehicles with a Dana® 60 Series axle used on GM®, Ford® and Dodge® trucks
- 3-3/4" long
- Industrial finish

#### S6109A Axle Nut Socket 6 Lug

- Used for the front wheel bearing retaining nut on 3/4-ton vehicles with heavy-duty suspension
- Designed for use on GM®, Ford® and Dodge® trucks with a Dana® 70 Series axle
- 1/2" square drive; 3-3/4" long
- Industrial finish

## SPANNER SOCKETS



ANS1929A

### Spanner Sockets

For use with a torque wrench when servicing Chevrolet®, GM® and Ford® axles

| Stock No. | Square Drive, inches | No. of Lugs | Outside Dia., inches | Applications   |
|-----------|----------------------|-------------|----------------------|--|
| ANS1929A* | 3/4                  | 6           | 2-5/8                | Chevy®/GMC® with 5,200 and 7,200 lb Axles            |
| ANS1930   | 3/4                  | 6           | 2-7/8                | Chevy®/GMC® with 11,000 and 13,500 lb Axles          |
| ANS7269A  | 1/2                  | 4           | 2-3/4                | 1985–later Ford® F-250/F-350 with floating Rear Axle |

\*Blue-Point

## TIRE AND WHEEL: SPINDLE NUT SOCKETS



SNS2467



SNS2770



SNS3195



SNS3246



YA6540

### Spindle Nut Sockets

#### SNS2467 Spindle Nut Socket (Blue-Point®)

- Removes and installs four-slot axle lock nuts
- 1/2–3/4-ton Dana® 44 axle
- Socket I.D.: 2"
- 1/2" drive

#### SNS2770 Socket, Spindle Nut, 6 Lug, 4 Wheel Drive (Blue-Point®)

- Removes and installs four-slot front axle lock nuts
- 3/4–1-ton Dana® 44 axle
- Socket I.D.: 2-1/4"
- 1/2" drive

#### SNS3195 Spindle Nut Socket (Blue-Point®)

- For high-shear rotating nuts
- 1/2-ton Dana® 80 axle
- Socket I.D.: 2-3/8"
- 1/2" drive

#### SNS3246 Socket, Spindle Nut, 4 Lug, 4 Wheel Drive (Blue-Point®)

- Removes and installs four-slot axle lock nuts
- 3/4–1-ton
- Socket I.D.: 2-1/4"
- 1/2" drive

### Axle Lock Nut Removers

#### YA6540 Nut Remover Kit for Toyota®/Lexus® Vehicles Axle Locks

- Prevents damage to the axle shaft threads when removing the lock nut
  - Unlocks and removes the 30 mm axle nuts from Toyota®/Lexus® vehicles
  - Kit combines a 1/2" drive 12-point special depth 30 mm impact socket and a unique angle axle-nut release tool
- YA6541 1/2" Drive 30 mm Impact Socket (Blue-Point®)**  
**YA6542 Lock Nut Release Tool (Blue-Point®)**

## Special Application Axle Nut Sockets (mm)



| Stock No.        | Size, mm | Style    | A    | B    | C    | D    | E    |
|------------------|----------|----------|------|------|------|------|------|
| <b>SIMDM300</b>  | 30       | 12-Point | 42.9 | 42.9 | 71.1 | 88.9 | 21.6 |
| <b>IMDM320</b>   | 32       | 12-Point | 45.7 | 45.7 | 36.8 | 50.8 | 20.6 |
| <b>IMDM390</b>   | 39       | 12-Point | 53.8 | 39.6 | 36.8 | 50.8 | 22.3 |
| <b>SIMM360TW</b> | 36       | 6-Point  | 47.2 | 45.8 | 72.8 | 88.9 | 22.9 |

### **SIMDM300 1/2" Drive 12-Point Metric 30 mm Flank Drive® Deep Axle Nut Impact Socket**

- Applications include axle nut removal on Toyota® Avalon®, Camry®, Highlander® and Matrix®; Lexus® ES300; Pontiac® Vibe®; 1999–later VW® Beetle®, Jetta® and Golf®; 2004–newer Dodge®/Freightliner® Sprinter® vans with 215 mm rear axle
- Applications include automatic transmission tail output shafts for 2004 Chrysler® 300C and Crossfire®; 2004 Dodge® Magnum®; 2005 Jeep®: Grand Cherokee® V6 models; Mercedes-Benz®
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of special alloy socket steel that provides long life and great strength
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards

### **IMDM320 1/2" Drive 12-Point Metric 32 mm Flank Drive® Shallow Impact Socket**

- Applications include servicing axle nuts on 1992–1999 Mercedes-Benz® W140 chassis SC and SL Class; Porsche® Boxster®, Cayenne® and 944; plus 2007–later BMW® x3, X5® and X6® Series vehicles
- Other uses include drive shaft nuts on 2003–later VW® Touareg® vehicles

### **IMDM390 1/2" Drive 12-Point Metric 39 mm Flank Drive® Shallow Impact Socket**

- Applications include the front axle hub of 2007 Toyota® Tundra 4WD; and servicing inner rack and pinion nuts on BMW® X5® and X6® vehicles

### **SIMM360TW 1/2" Drive 6-Point Metric 36 mm Flank Drive® Deep Axle Nut Impact Socket**

- Thin wall design provides the extra room needed to remove and install the axle nut on Chevrolet® Sonic® vehicles



HDM1236

## Adjusting Tools

### **HDM1236 Axle Nut Torque Adaptor for Harley-Davidson® Motorcycles**

- Allows adjustment of the drive belt on certain Harley-Davidson® models without removing the saddlebags, exhaust pipes, or other parts and accessories
- 1/2" square drive, 36 mm wrench
- Center-to-center length is stamped on the adaptor for easy torque calculation
- Manufactured from steel with a higher alloy content, and heat treated for optimum strength and durability



WLT1

## Wheel Hub Lock Tool

### **WLT1 Wheel Hub Lock Tool (Blue-Point®)**

- Eliminates the need for an assistant to hold the brake pedal while axle nuts are removed or installed
- Works on any vehicle with wheel stud bolt patterns ranging from 4 x 100 mm to 8 x 170 mm
- 1 pc design with incorporated cushioned-grip handle for comfort and ease of use
- Can also be used to hold the rear differential yoke on solid axle vehicles during pinion seal or bearing service, as well as many other types of machines with drive shafts, yokes and universal joints



YA6545

## Staked Axle Nut Punches

### **YA6545 Staked Axle Nut Punch Set (Blue-Point®)**

- Punches release and stake the crush-type axle nuts found on many vehicles
- Using the punches with an air hammer makes it quick and easy to fully disengage the axle nut crimp, reducing damage to the threads
- Fully crimps the nut eliminating axle nuts correctly
- When re-staking the nut, the tool has the right size and shape to fully lock the nut in place
- Saves time and money on broken screwdrivers



SIM540A

## Special Application Axle Nut Sockets (inches)

### **SIM540A 6-Point Axle Nut Socket**

- For the removal or installation of 1996–later Dodge® truck axle nuts
- For use on truck and bus wheel applications
- Flank Drive® wrenching design
- 1/2" square drive

## TIRE AND WHEEL: SHACKLE PIN



SPS10A



SPS13

### Shackle Pin Impact Sockets

Designed with an oval configuration to service shackle pins on International® and Kenworth® semitrucks.

#### SPS10A 1/2" Drive SAE 41/64" Shackle Pin Impact Socket

- Designed with an oval configuration to service shackle pins on International® and Kenworth® semitrucks

#### SPS11A 1/2" Drive SAE 21/32 x 1-17/32" Shackle Pin Impact Socket

- Socket opening is 21/32 x 1-17/32"; 1-3/4" long

#### SPS12 1/2" Drive SAE 3/4 x 1-9/32" Shackle Pin Impact Socket

- For use on Freightliner® 120 Series and trucks with newer large spring bolts
- Impact rated 1/2" drive
- Socket opening is 3/4 x 1-9/32"; 1-3/4" long

#### SPS13 Spring Shackle Pin Socket

- Used to remove and install spring shackle pins on front suspensions of Volvo® truck and VN420/610/660/770 Daycab vehicles
- Hardened pins for engaging the shackle pin

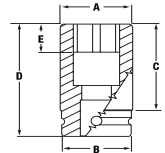
## LUG/RETAINING NUT



HDLUGSET2



S6840



### Heavy-Duty Truck Wheel Lug Sockets

#### HDLUGSET1 Heavy-Duty Lug Socket Set

- Includes SIM383, SIM403, SIM483B, SIMM333, SIMM383, plus BW726A and BWD483
- Flank Drive® wrenching system
- Alloy steel combines strength and durability
- All sockets are 1" square drive

#### HDLUGSET2 Heavy-Duty Lug Socket Set

- Includes SIM342, SIM482, SIMM332, SIMM382, SIMM412 and DW402C, plus BW626A, BWD482 and BWDM412 in a PAKPB063 Storage Case
- Flank Drive® wrenching system
- Alloy steel combines strength and durability
- All sockets 3/4" square drive

### Lug Nut Removal Sockets, Magazine Loading

#### S6840 Magazine Loading Lug Nut Removal Socket

- Flank Drive® wrenching system grips the fastener on the flanks/flats to increase torque and prevents the fastener from rounding, increasing the life of the socket
- Saves the technician time by housing the five lug nuts as they are removed—one at a time—from the wheels on Flexi-Van® chassis trailers

## TIRE AND WHEEL: BUDD WHEEL

### Budd Wheel Impact Sockets

- 6-point and square openings are combined
- For use with the socket retainers listed below
- Industrial finish



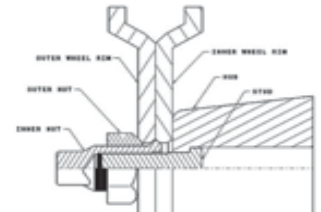
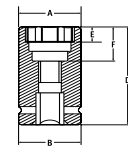
BWD482



BWDM412



BWDS483



| Stock No. | A, Socket End Diameter, inches | B, Drive End Diameter, inches | D, Length, inches | E, Hex Depth, inches | F, Square Depth, inches | Hex Size, inches | Square Size, inches | Square Drive, inches |
|-----------|--------------------------------|-------------------------------|-------------------|----------------------|-------------------------|------------------|---------------------|----------------------|
| BWD482    | 2-7/32                         | 1-3/4                         | 4                 | 5/8                  | 1-11/16                 | 1-1/2            | 13/16               | 3/4                  |
| BWD483    | 2-15/64                        | 2-15/64                       | 4                 | 5/8                  | 1-11/16                 | 1-1/2            | 13/16               | 1                    |
| BWDM412   | 2-11/32                        | 1-3/4                         | 4-1/4             | 17/32                | 1-43/64                 | 41 mm            | 21 mm               | 3/4                  |
| BWDS483   | 2-15/64                        | 2-15/64                       | 4                 | 5/8                  | 1-9/64                  | 1-1/2            | 13/16               | 1                    |
| BW630     | 1-13/32                        | 1-5/8                         | 2-1/4             | 1-9/64               | —                       | —                | —                   | 3/4                  |

#### BWDM412 3/4" Square Drive 6-Point Metric 21 mm Square Budd Wheel Impact Socket

- For 1986–later Nissan® and Isuzu® Class 4, 5, 6 and 7
- Impact sockets are heat treated to a low hardness range compared to chrome sockets so that under heavy, continuous use, the impact socket will withstand the impact blows and wear rather than break

#### BWDS483 1" Square Drive 6-Point SAE 13/16" Square Budd Wheel Impact Socket

- Dual-opening socket allows for just one socket to remove the outer hex nut and the inner square nut used on Budd wheel assemblies for semi trucks and buses
- Flank Drive® wrenching configuration
- Special alloy steel for strength and durability
- The BWDS483 is designed to engage short inner nuts only; use the BWD483 for long inner nuts

**Stud Remover and Installers**

**WSK12 Stud Installer/Rethread Kit (Blue-Point®)**

- Self-centering units permit quick installation the first time
- Helps eliminate damage to threads
- Designed for use with an impact wrench
- Set replaces both the WSK755 and WSK938 sets
- Packaged in a blow-molded box for easy storage

**BWS1316A Stud Remover (Blue-Point®)**

- Use on 13/16" studs on Budd wheels



**BWS1316A**



**WSK12**

**Impact Sockets**

- For use with the socket retainers listed below
- Industrial finish
- Snap-on® impact sockets are heat-treated to a lower hardness to add impact resistance and ductility
- Superior wall construction absorbs repeated impact cycling loads
- Flank Drive® wrenching system provides flat-to-flat contact for up to 20% more turning power
- 6-point sockets engage fasteners every 60° for better turning power
- Always use impact sockets with impact guns to prevent injury and socket damage



**BW626A**

| Stock No.       | Square Drive, inches | Wrench Size   | Length   |
|-----------------|----------------------|---------------|----------|
| <b>BW626A</b>   | 3/4                  | 13/16" Square | 4"       |
| <b>IM562</b>    | 3/4                  | 1-3/4" Hex    | 2-3/4"   |
| <b>SIMM332</b>  | 3/4                  | 33 mm Hex     | 82.6 mm  |
| <b>BW726A</b>   | 1                    | 13/16" Square | 2-1/4"   |
| <b>SIMML332</b> | 3/4                  | 33 mm Hex     | 152.4 mm |
| <b>SIMML333</b> | 1                    | 33 mm Hex     | 152.4 mm |

**IMPACT SOCKET RETAINERS**



**IM182P**



**IM182R**



**IMR3**

**3/4" Drive Impact Socket Retainers**

| Stock No.     | Description         | Square Drive, inches |
|---------------|---------------------|----------------------|
| <b>IM182P</b> | Steel Locking Pin   | 3/4                  |
| <b>IM182R</b> | Rubber Locking Ring | 3/4                  |
| <b>IMR2</b>   | Socket Retainer     | 3/4                  |
| <b>IMR3</b>   | Socket Retainer     | 1" Spline            |

**TIRE AND WHEEL: GENERAL SERVICE TOOLS**

**Toyota®/Lexus® Carrier Assembly Socket**

**B2193 3/8" Drive 5-Point Spare Tire Carrier Assembly Socket**

- Tough nickel-chrome plating provides corrosion resistance
- Special-alloy steel provides the highest match of strength and durability
- Lower and remove the spare tire from the carrier assembly on various Toyota® and Lexus® vehicles for PDI (pre-delivery inspection)
- Great time saver for PDI when selling a new vehicle or checking the air pressure of the spare tire
- Saves time when doing an oil change and the air pressure of the spare tire is checked as part of the service
- 4" long



**B2193**



• Read safety precautions on pages W1 to W4

## TIRE AND WHEEL: GENERAL SERVICE TOOLS



### Rim Tools

#### TR100 Rim Tool

- For use on split rims and rim lock rings
- One end is angled, the other is straight
- 19-1/8" long, with 9/16" and 5/8" wide ends

#### TR102 Rim Tool

- For drop center rims
- 18" long, with a 1-3/8" wide end



### Cotter Pin Pullers

#### SGCP1BR Soft Grip Cotter Pin Puller

- Makes short work of pulling even large pins
- Heat-treated shank provides maximum strength

#### S9094B Cotter Pin Puller

- Pins are removed by hitting the anvil sharply
- Side handle ensures a firm grip
- 10" long
- Replaceable steel hook



#### S9094A2X Replacement Hook and Rivet Set

- For S9094B

#### CP9 Cotter Pin Puller

- 38° angle end pries cotter pin loose
- 105° angle end pulls it out
- 10" long



### Truck Wheel Pan

#### TWP8 Truck Wheel Pan (Blue-Point®)

- Helps prevent messes and spills
- Fits rims with 13-3/4" inside diameter or larger for use on most large trucks and trailers
- Holds 88 oz of oil
- Pan will not warp if the oil is warm
- Compartment above the handles holds the hub nuts



### Dust Cap

#### GCP10 Grease and Dust Cap Tool

- Tapered jaws of the tool fit behind the crimped edge of the grease cap
- One handle is designed for prying hub caps loose



### Wheel Chocks

#### YA9020A Truck Wheel Chocks

- Heavy-duty truck chocks are connected by a 10' nylon rope and measure 8" wide and 8" high overall
- Non-slide design



### Seal Tools

#### S6129 Seal Puller

- Designed to pull the wheel bearing or other small seals
- 7" long
- Industrial finish

#### SRT1 Seal Removal Tool

- Saves time and labor by eliminating prying against the bearings or driving out seals
- Grabs the seal only, leaving bearings undamaged
- Seals remain intact, allowing for complete failure analysis
- Wedges and a long handle provide exceptional leverage
- Heavy-duty construction for long life and dependability
- Works with steering, drive and trailer wheel seals on the largest heavy-duty wheels

#### YA105 Seal Puller (Blue-Point®)

- For removing rubber seals
- Two tips are designed to reach in and fit nearly all seal applications
- 12-5/8" long





# TIRE AND WHEEL: GENERAL SERVICE TOOLS



BF620C



BF623



HCU4SG

## Mallets

### BF620C Rubber Head 11" Mallet (Blue-Point®)

- Solid-rubber head is 3-3/4" long, 2-1/4" dia
- 11" hardwood handle

### BF623 Soft Blow 12-1/2" Mallet (Blue-Point®)

- Designed to reduce marring and denting
- For use in assembly applications and on all types of surfaces, including metal, glass, plastic and wood
- Special polymer head resists dynamic fatigue, creep and compression set, even at extreme temperatures
- Conforms to irregular surfaces
- Dissipates hand-jarring shock
- Resists most chemicals
- Wood handle

## Dead Blow Hammer

### HCU4SG 4 lb Dead Blow Wheel Service Hammer (Blue-Point®)

- Urethane face allows for less marring of struck surfaces; wider face diameter will minimize any damage to thin steel or aluminum castings commonly found on transaxle cases, transfer cases, or similar automotive components
- Four pound hammer gets the job done in one or two strikes versus multiple passes for smaller hammers
- Fiberglass handle is 4x stronger than wood—no internal steel to create vibration or ergonomic shock
- Pod that holds shot in hammer head has no obstruction from handle, allowing for uninterrupted flow of shot during striking

# WHEEL ALIGNMENT: BALL JOINT

## Ball Joint Presses

| Stock No.    | Description                           | ID.-OD, inches                            | Length, inches | Set Contains: |         |
|--------------|---------------------------------------|---|----------------|---------------|---------|
|              |                                       |   |                | BJP1          | BJP1OPT |
| BJP1-1A      | Sleeve Adaptor                        | 1-9/32-1-21/32                            | 2-1/8          | •             |         |
| BJP1-2A      | Pressure Screw                        | —   | 9-3/4          | •             |         |
| BJP1-3A      | Pressure Pad (Ball Joint)             | N/A-1-19/32                               | 3-3/16         | •             |         |
| BJP1-4A      | Pressure Pad                          | N/A-7/8                                   | 3-3/16         | •             |         |
| BJP1-5A      | Adaptor                               | 29/32-1-11/32                             | 1-13/16        | •             |         |
| BJP1-6A      | Adaptor/Extension                     | 1-1/4-1-21/32                             | 2-1/16         | •             |         |
| BJP1-7A      | Adaptor                               | 1-11/16-1-29/32                           | 1-1/8          | •             |         |
| BJP1-8A      | Adaptor                               | 1-25/32-2                                 | 1.00           | •             |         |
| BJP1-9A      | Adaptor                               | 1-27/32-2                                 | 1-1/4          | •             |         |
| BJP1-10A     | Adaptor                               | 2-11/32-2-21/32, Front Face Angled 4-1/2° | 2-1/8          | •             |         |
| BJP1-11A     | Adaptor                               | 2-2-1/4                                   | 2-1/8          | •             |         |
| BJP1-12A     | Adaptor                               | 2-1/4-2-1/2                               | 2-3/4          | •             |         |
| BJP1-13B     | Adaptor                               | 2.425-2.750                               | 2.4            |               |         |
| BJP1-14A     | Adaptor                               | 2-11/16-2-15/16                           | 2-3/4          | •             |         |
| BJP1-16A     | Adaptor                               | 2-1/4-2-1/2                               | 1-1/8          | •             |         |
| BJP1-17      | Grease Fitting                        | 2-1/4-2-1/2                               | 1-1/8          |               |         |
| BJP1-18A     | Dodge® Sprinter® Adaptor              | 1.250-2.750                               | 2.49           | •             |         |
| BJP1-22A     | Honda®/Acura® Adaptor                 | 1.760 - 1.835                             | 1.765          |               | •       |
| BJP1-24A     | Honda®/Acura® Adaptor                 | 1.960 - 2.250                             | 1.943          |               | •       |
| BJP1-25B     | Ford® F-450 F-550 Ball Joint Adaptor  | 2.800 - 3.100                             | 3.76           |               | •       |
| BJP1-26A     | Dodge® U-Joint Adaptor                | 1.500 - 2.000                             | 1.98           |               | •       |
| BJP1-27A     | Ford® Explorer® Lower Removal Adaptor | 2.680 - 2.880                             | 2.325          |               | •       |
| BJP1-28B     | Ram® 2500/3500 Ball Joint Adaptor     | —   | —              |               |         |
| BJP1-29A     | Honda®/Acura® Ball Joint Adaptor      | 2.650 - 2.850                             | 1.96           |               |         |
| BJP1-33A     | Transit® Connect Remover Cup          | 2.607 - 2.760                             | 2.15           |               |         |
| BJP1-34A     | Transit® Connect Remover Cup          | N/A - .950                                | 2.425          |               |         |
| BJP1-35A     | Transit® Connect Install Cup          | 1.84 - 2.12                               | 2.23           |               |         |
| BJP1-36A     | BMW® Adaptor                          | 2.010 - 2.250                             | 2.15           |               |         |
| BJP1-37A     | BMW Adaptor                           | 2.250 - 2.500                             | 2.75           |               |         |
| BJP1-38A     | Ram® HD Adaptor                       | 1.250 - 2.010                             | 0.9            |               |         |
| BJP1-39A     | Ram® HD Adaptor Cup                   | 2.800 - 3.100                             | 2.9            |               |         |
| BJP1-42A     | Subaru® Bushing Cup Receiver          | 2.40 - 2.65                               | 1.90           |               |         |
| BJP1-43A     | Subaru® Bushing Cup Ram               | 2.06 - 2.83                               | 1.40           |               |         |
| BJP1-44A     | Subaru® Bushing Disc                  | 1.25 - 2.70                               | 0.75           |               |         |
| BJP1-A1310SB | Adaptor (BJP1 to A1310B Series)       | N/A - .875                                | 2.95           |               |         |



BJP1-13B



BJP1-18A



BJP1-22A



BJP1-25B



BJP1-28B



BJP1-29A



BJP1-33A



BJP1-34A



BJP1-35A



BJP1-39A



BJP1-44A

ZBJP1B BJP1 Owners Manual



• Read safety precautions on pages W1 to W4

## WHEEL ALIGNMENT: BALL JOINT



BJP1



BJP1BMW1



BJP1FORDTC



BJP1HONDA



BJP1OPT



BJP1RAM1

### Ball Joint Presses

#### BJP1 22 pc Master Ball Joint/Universal Joint Press Set

- Covers the majority of US SUVs, light trucks and passenger cars
- Applications include Ford® (43 models), GM® (53 models), Dodge®/Daimler-Chrysler® (54 models) and Jeep® (16 models) vehicles
- Installs and removes ball joints with pre-fitted straight grease fittings
- Press frame features a large throat for increased ball joint applications and vise mount capability for U-joint applications
- Locking cup design holds the cup in place
- Large, coarse thread pressure screw for extra strength and maximum force
- Grease zerk fitting for smooth screw action
- Includes a full ball joint/universal joint application chart and storage/carrying case

#### BJP1BMW1 Ball Joint Remover/Installer for BMW®

- Removes stubborn ball joints with greater efficiency for increased productivity
- Manufactured from special steel with higher alloy content
- Industrial finish helps protect against corrosion
- Set includes BJP1-36A and BJP1-37A

#### BJP1F Press Frame

- 7-13/16" throat opening; 3-1/2" depth; 6" height; 10-13/16" length

#### BJP1FORDTC 3 pc BJP1 Ford® Transit Connect Set

- Unique adaptors fit on complex knuckle geometry
- Easily removes stubborn ball joints for increased productivity
- Manufactured from superior alloy steel and heat treated for optimum strength and durability
- Designed to be used in conjunction with the Snap-on® BJP1 Kit
- Industrial finish helps protect against corrosion
- Set includes BJP1-33A, BJP1-34A and BJP1-35A

#### BJP1HONDA Adaptor Set for Honda® Vehicles

- For removal and installation of upper/lower ball joints on many Honda® and Acura® vehicles: must be used with BJP1 Master Ball Joint/Universal Joint Press Set
- Includes BJP1-22 and BJP1-24 Ball Joint Adaptors, plus (2 each) ME7A208 O-rings

#### BJP1OPT 5 pc Ball Joint Adaptor Set

- Special application set for removal and installation of upper and lower ball joints
- Set must be used with the BJP1 Master Ball Joint Press Set
- Includes BJP1-22A, BJP1-24A, BJP1-25A, BJP1-26A and BJP1-27A Ball Joint Adaptors in a storage tray

#### BJP1RAM1 Adaptor Set for Dodge® Ram® Vehicles

- Unique adaptors fit on complex knuckle geometry
- Easily removes stubborn ball joints for increased productivity
- Manufactured from superior alloy steel and heat treated for optimum strength and durability
- Designed to be used in conjunction with the Snap-on® BJP1 Kit
- Industrial finish helps protect against corrosion
- Set includes BJP1-38A and BJP1-39A

#### PAKPB061 Storage Case

- For BJP1 Master Ball Joint Press Set

#### RKBJP 15 pc Ball Joint/Universal Joint Press Repair Kit

- Includes (1) grease fitting, (1) retaining ring, (11) large snap rings, (1) small snap ring and (1) steel ball

## Ball Joint Presses

**ME7A207 Retaining Ring**

- Retaining ring included in the BJP1 and UJP1 sets

**ME9A34 Steel Ball**

- Steel ball included in the BJP1 and UJP1 sets

**ME7A208A Large Snap Ring**

- Large snap ring included in the BJP1 and UJP1 sets

**ME7A209A Small Snap Ring**

- Small snap ring included in the BJP1 and UJP1 sets

## Ball Joint Sockets

### S9365B Ball Joint Socket

- For medium-size Chrysler® cars
- 3/4" square drive
- 1-59/64" wrench size; 2" long

### S9479A Ball Joint Socket

- For Dodge®/Chrysler® pickups and vans
- 3/4" square drive
- Wrench size is 2-9/64", length is 2"

### S9613 Ball Joint Socket

- For use on 4-5B axles found on Dodge®, Ford®, Chevrolet®, GMC® and International® 4-wheel drive trucks
- Adjusts the sleeve in the top of the yoke on the front suspension
- 1/2" square drive, 1" O.D.; 2-1/8" long;

### BJR1 Ball Joint Socket (Subaru® vehicles)

- Easily removes stubborn ball joints on Subaru® 2003–2006 Baja®, 1998–2010 Forester®, 1993–2010 Impreza, 1990–2010 Legacy and 2000–2010 Outback® models
- Stay safe dealing with low clearance and heavy corrosion
- Beat the flat rate by doing the job faster and with less effort

### BJR2 Ball Joint Socket (Subaru® vehicles)

- Faster, safer ball joint removal for Subaru® vehicles
- Easily removes stubborn ball joints for increased productivity
- 3/4" hex on the pressure screw can be driven by hand or with an impact gun
- Industrial finish helps protect against corrosion
- For use on 2006–2012 Subaru® Tribeca vehicles



S9365B



S9479A



S9613



BJR1



BJR2



A204



A200

## Ball Joint/Tie Rod Separators

| Stock No. | Jaw Opening, inches | Overall Length, inches |
|-----------|---------------------|------------------------|
| A204      | 5/8                 | 12                     |
| A200      | 13/16               | 18                     |
| A201      | 1                   | 12                     |
| A203      | 1-1/4               | 12                     |

## SERVICE TOOLS

### General Service Tools

#### YA7970 Hub Clamp Expander (Blue-Point®)

- Designed for hubs, and clamping-style struts and ball joint mounts
- Allows easy removal and installation of struts and ball joints
- Interchangeable spreaders prevent damage to aluminum or cast iron hubs
- Adjustable for use on hubs with a centralized or non-centralized slot
- Allows for on-vehicle repair



YA7970

### Emergency Brake

#### SIML160 1/2" Drive 6-Point SAE 1/2" Flank Drive® Extra-Deep Impact Socket

- Used to remove or replace fuel tank retaining strap nuts
- Other applications include emergency brake adjustment nuts and stabilizer retainers
- 1/2" square drive; 1/2"; 6-point wrench opening
- 5" long

#### SIML180 1/2" Drive 6-Point SAE 9/16" Flank Drive® Extra-Deep Impact Socket

- Same design as SIML160, except hex size is 9/16"



SIML160

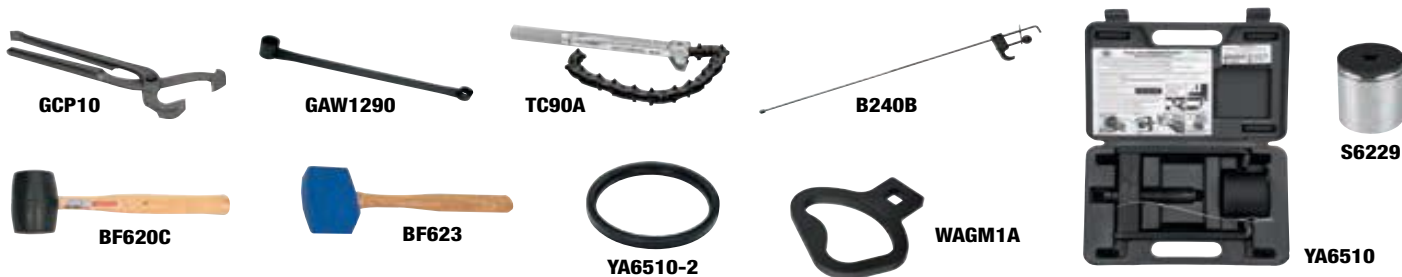


SIML180



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

## WHEEL ALIGNMENT: SERVICE TOOLS



### General Service Tools

#### GCP10 Grease and Dust Cap Tool

- Tapered jaws of the tool fit behind the crimped edge of the grease cap
- One handle is designed for prying hub caps loose

#### GAW1290 Wheel Alignment Wrench

- 18-1/2" long for extra leverage
- 21 mm 12-point with special angle and bidirectional offset to access difficult-to-reach bolts
- 24 mm 12-point deep offset for access to guarded bolt heads without the sloppiness of a breaker bar and socket
- 24 mm 12-point deep offset for access to 12-point bolt heads with access to the lock nuts through the socket
- Used on alignment bolts for Audi®, VW®, Porsche®, BMW® and MINI® vehicles

#### TC90A † Tailpipe Cutter (Blue-Point®)

- Handles cutting from 3/4–3-1/2" dia
- 16-link cutter chain is 12" long
- Threaded shaft with crosspiece provides elasticity to help prevent the chain wheels from breaking
- Ideal for cutting the strut assembly to enable servicing of the strut cartridge

#### TC90A1 † Chain Assembly (Blue-Point®)

- Includes one wheel and one roll pin

#### B240B Brake and Accelerator Pedal Jack (Blue-Point®)

- Holds throttle at a constant RPM
- Easily adjusts to desired length
- Adjustment screw fine-tunes desired RPM
- Rubber tip keeps the tool firmly positioned
- Overall length of 40" (102 cm)
- Can also be used as a pedal depressor

#### YA6510 Bushing Extractor (Blue-Point®)

- Used on 1994–2001 Acura® Integra®, plus various 1988–2001 Honda® vehicles

#### YA6510-2 Bushing Extractor Adaptor (Blue-Point®)

- Enables the YA6510 Bushing Extractor to be used on 1990–1993 Integra® vehicles

#### BF620C Rubber Head 11" Mallet (Blue-Point®)

- Solid-rubber head is 3-3/4" long, 2-1/4" dia
- 11" hardwood handle

#### BF623 Soft Blow 12-1/2" Mallet (Blue-Point®)

- Designed to reduce marring and denting
- For use in assembly applications and on all types of surfaces, including metal, glass, plastic and wood
- Special polymer head resists dynamic fatigue, creep and compression set, even at extreme temperatures
- Conforms to irregular surfaces
- Dissipates hand-jarring shock
- Resists most chemicals
- Wood handle

#### WAGM1A Alignment Tool for GM® Vehicles

- Updated drive location allows for increased access away from the vehicle's frame
- 1/2" square drive allows for better leverage
- Robust design and rugged construction for better engagement on the alignment cam

#### S6229 Steering Rack Spanner Socket

- Allows the steering rack to remain in the vehicle for repairs without using a screwdriver and hammer
- Removes and installs the cylinder end stopper on 2004–2009 Lexus® RX330 and RX350 vehicles and 2004–2007 Toyota® Highlander® vehicles
- 3/8" drive and designed specifically for this application; will not mar or damage the cylinder
- Manufactured from special-alloy steel and heat treated for optimum strength and durability
- Tool is industrial finish but is not impact rated, as it is for hand tool use only

## SHOCK ABSORBER



A137

### Shock Absorber Sockets

| Stock No. | Square Drive, inches | Wrench Oval Diameter | Wrench Oval Width | Length, inches |
|-----------|----------------------|----------------------|-------------------|----------------|
| A137      | 3/8                  | 5/16"                | 1/4"              | 29/32          |
| A138      | 3/8                  | 21/64"               | 15/64"            | 29/32          |
| A139      | 3/8                  | 8 mm                 | 6 mm              | 0.9            |

## CASTER CHAMBER



CC6630

### Caster/Camber Tools

Metric combination wrenches. Long handle design for access.

#### CC6630 Caster/Camber Alignment Tool

- Eliminates the need to use the front 21 mm eccentric bolt, which is difficult to access behind a steel shield
- Hook tool on the top A arm and, with locking nut loosened, push or pull for easy caster and camber adjustment
- Saves about 15 minutes per side



## Tie Rod Adjusting Tools

### WA12A Tie Rod Adjusting Tool

- For large cars and light trucks
- 1/2" square drive; 3-3/4" long

### WA13A 1/2" Square Drive Tie Rod Adjusting Tool

- For compact and medium cars
- 3-3/4" long

### WA16 1/2" Square Drive Tie Rod Adjusting Tool

- For large trucks
- 4-7/64" long

### WA17 1/2" Square Drive Tie Rod Adjusting Tool

- Designed to permit 360° rotation of the adjusting sleeve, even in tight quarters
- Used on 1-7/8" sleeves on full-size 3/4- and 1-ton pickups, including Ford® Super-Duty
- For use with a 1/2" square drive ratchet or breaker bar
- Chrome finish
- 4-3/4" long

### WW500 Rack Wrench (Blue-Point®)

- Used on steering racks to service the inner tie rod ends
- Fits the rack end with a hex drive, a round with two drive flats or a round with no drive flats
- Universal fit from 33–41 mm (1-15/16–1-9/16")
- Hex sizes from 31–35 mm (1-1/4–1-3/8") and 19 mm (3/4") hex drive
- Clamp force increases as load is applied

### WW600 Heavy-Duty Rack Wrench (Blue-Point®)

- New larger size provides added coverage for domestic and import trucks and SUVs
- Suits multiple rack ends and sizes (hex drive, round with two flats, round with no flats)
- Fixed position rings provide added strength
- Patented cam design increases force as load is applied
- Universal design suits rack end diameters from 1-1/2–1-7/8" (38–46 mm)
- Used on vehicles with limited access to avoid the need to remove the rack assembly
- Expands upon the already available WW500, which does 33–41 mm (1-5/16–1-9/16") tie rods

### YA2218 Tie Rod Adjusting Wrench

- For US and import vehicles with rack-and-pinion steering using tie rods or 17.0–18.5 mm hex gripping section
- Spring-loaded jaws and comfort-grip handle

### YA2222 Tie Rod Adjusting Wrench (Blue-Point®)

- For US and import vehicles with rack-and-pinion steering using tie rods with knurled or 12 mm hex gripping sections
- Spring-loaded jaws and comfort-grip handle
- 10-1/2" long

### YA2223 Tie Rod Adjusting Wrench

- For rack-and-pinion steering using 14–15.5 mm tie rods
- Spring-loaded jaws and comfort-grip handle
- Applications include 1995–later Dodge® Dakota® and Caravan®, 1998–later Dodge® Durango®, Dodge® Viper® and most 1999–later GM® 1/2-, 3/4- and 1-ton trucks

### YA2224 Tie Rod Adjusting Wrench (Blue-Point®)

- Similar in design to the YA2222 but for 10.5–12 mm diameter tie rods, such as those found on Ford® Escort®, GM® Geo, and smaller Nissan® vehicles with rack-and-pinion steering
- Spring-loaded jaws and comfort-grip handles
- 9-1/2" long

### YA3500 Universal Inner Tie Rod Wrench (Blue-Point®)

- Removes inner tie rods equipped with completely round end sockets or flats
- Designed to remove and install all inner tie rod sockets up to 1-15/32"
- Wrench head has three set screws that tighten against the socket
- Includes a 1/4" short head hex wrench
- Lifetime warranty

### YA6870 Rear Toe Adjustment Kit for Subaru® Vehicles

- Includes (2) wrenches: each 16" long for extra reach
- YA6870-1: 6-point, 22 mm wrench with the correct 0° offset to securely hold the cam bolt
- YA6870-2: 6-point, 17/19 mm dual-end wrench designed to meet the high-torque levels required when loosening/tightening the cam bolt retaining nut
- Used on all Subaru® vehicles 1990 and later
- YA6870-1 fits Subaru® vehicles 1990 and later; YA6870-2 fits 1990–2008 (17 mm) and 2009–later (19 mm)
- High-quality steel is specially heat treated for torque requirements

### YA6870-1 Toe Adjustment Wrench for Subaru®

- Cam bolt wrench for Subaru®
- YA6870-1 fits 1990–later Subaru® vehicles

### YA6870-2 Toe Adjustment Wrench for Subaru®

- Cam bolt retaining nut wrench for Subaru®
- YA6870-2 fits 1990–2008 (17 mm) and 2009–later (19 mm) Subaru® vehicles



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## WHEEL ALIGNMENT: TIE ROD



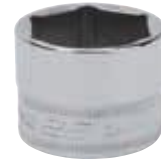
YA3000D



WA14A



WA800



ITRS22

### Tie Rod Removal/Installation Tools

#### YA3000D Inner Tie Rod Tool (Blue-Point®)

- Removable crowfoot adaptors are placed on the hex of tie rod
- Engages the crowfoot for removal or installation of the tie rod
- Includes crowfoot adaptors in 1-3/16, 1-1/4, 1-5/16, 1-7/16, 1-1/2" and 33.6 mm sizes

#### WA14A Tie Rod End Socket

- For removing tie rod ends
- U-shaped opening measures 1-3/8 x 3/4"
- For use with 1/2" square drive handles
- 1-15/16" I.D.; 2-1/4" long
- Fits most cars and some trucks

#### WA15 Tie Rod End Socket

- Similar to WA14A
- For tie rod servicing on most trucks in the Class 2–6 range
- U-shaped opening measures 1-7/8 x 15/16"
- For use with 1/2" square drive handles
- 2-1/2" ID, 2-7/8" long

#### WA800 Heavy-Duty Truck Tie Rod Socket (Blue-Point®)

- For use on most Class 7 and 8 heavy-duty trucks with 9,000–20,000 lb axles
- U-shaped slot measures 1-7/8 x 1-1/2"
- 3" inside dia.; 3-1/2" overall length

#### ITRS22 Tie Rod Bushing Socket

- Used to access the inner tie rod bushings on Chrysler® LHS®/Concorde and Dodge® 300M/Intrepid® featuring the LH body style
- Low-profile design provides easy access to remove or install the 7/8" or 22 mm hex head bolts that attach the inner tie rod bushing to the rack-and-pinion assembly
- A conventional socket cannot be used in this application

## STRUT



WA92



MSC2



WA7500

### MacPherson/Coil Spring Compressors

#### WA92 Coil Spring Compressor

- Holds the coil spring at the desired tension for removal of other parts
- 11" screw
- Liberally lubricate threads with anti seize compound

#### MSC1 ‡ Master MacPherson Strut Tool (Blue-Point®)

- Designed to quickly and easily compress most MacPherson strut springs
- Compresses up to 5/8" coil diameter
- Broad spring contact for stable compression
- ACME threaded rod and built-in detent latches to help lock the coil in place
- Forged construction for strength and durability

#### MSC2 ‡ Coil Spring Compressor (Blue-Point®)

- Removes and installs coil springs quickly and safely
- Compresses coil springs on all passenger cars and pickup trucks
- Features an ACME threaded rod
- Includes an instructional card

#### MSCS1000 ‡ Master Spring Compressor Set (Blue-Point®)

- Includes MSC1 and MSC2 in a storage case

### Strut Tools

#### WA7500 Strut Cartridge Tool for GM® Vehicles (Blue-Point®)

- Replaces strut cartridge through the body shock tower on GM® 10 Series (W Car) vehicles
- Applications include 1988–later Pontiac® Grand Prix®; Oldsmobile® Cutlass; Buick® Regal®; 1989–later Chevrolet® Lumina

**Strut Sockets**

**SSV1 2 pc 1/2" Drive Strut Socket Kit**

- Used to remove and install strut nuts on various Volvo® models
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability
- Includes SSV1-1 and SSV1-2 Strut Sockets



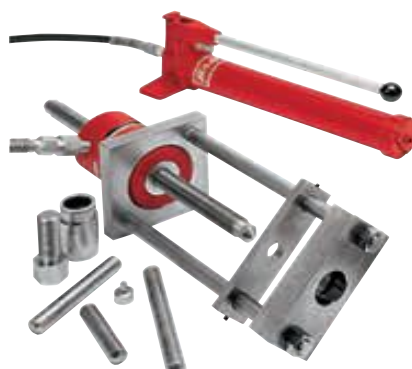
**SSV1-1 1/2" Drive Volvo® Strut Socket**

- For use with SSV1-2 to remove and install strut nuts on various Volvo® models

**SSV1-2 1" Hex Drive Volvo® Strut Socket**

- For use with SSV1-1 to remove and install strut nuts on various Volvo® models

**WHEEL/AXLE PULLERS: KING PIN PULLERS**



**CG430HYC**

**20-Ton Capacity Hydraulic**

| Stock No. | Pressure Screw | Work Head | Yoke Post (2) | Pilot Guide | 1-3/8" x 7/8" Bushing | Expansion Plug | Hydraulic Power Pack | 7/8" Diameter Pilots |
|-----------|----------------|-----------|---------------|-------------|-----------------------|----------------|----------------------|----------------------|
| CG430HYC  | CG430-1        | CG430-3   | CG430-4       | CG430-6     | CG430-7               | CJ91-2A        | CG420A               | CG230-9 (6")         |
| —         | —              | —         | —             | —           | —                     | —              | —                    | CG230-8 (4")         |
| —         | —              | —         | —             | —           | —                     | —              | —                    | CG230-10 (8")        |

**CG430HYC Hydraulic King Pin Press Set**

- CG420A hydraulic ram and pump delivers up to 20-tons of controlled power to remove stubborn king pins on large vehicles with king pin diameters up to 1-1/4"
- Also removes brake shoe anchor pins on trucks
- Wide side arm construction
- Uses three pilots: 7/8 x 4", 7/8 x 6" and 7/8 x 8"
- Includes two guide bushings: 1-3/8 x 7/8" and 1-3/8 x 3-1/4"

**35-Ton Capacity Hydraulic**

| Stock No. | Pressure Screw | Yoke Adaptor | Work Head | Yoke Post (2) | Pilot Guide | Post Nut (2) | 1-9/16" Bushing | Hydraulic Power Pack | Pilots            |
|-----------|----------------|--------------|-----------|---------------|-------------|--------------|-----------------|----------------------|-------------------|
| CG730HY   | CG730-1        | CG730-2      | CG730-3   | CG730-4       | CG730-6     | CG750-7      | CG730-8         | CG420A               | —                 |
| —         | —              | —            | —         | —             | —           | —            | —               | —                    | CG730-10 (2-1/4") |
| —         | —              | —            | —         | —             | —           | —            | —               | —                    | CG730-11 (4-1/2") |
| —         | —              | —            | —         | —             | —           | —            | —               | —                    | CG730-13 (9")     |

**CG730HY Hydraulic King Pin Press**

- For use on large trucks and semi trucks with king pin diameters from 1–2"
- Similar to CG430HYC except it uses 35-ton hydraulic power components (CG720 ram, CG420-2A pump, CG420-3-1 hose and CG420-4 quick coupler)
- Includes (3) guide bushings and (7) pilots

**CG730 Manual King Pin Press Set**

- Same as the CG730HY Set, less the hydraulic power components

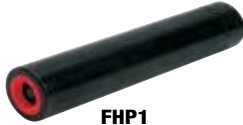


• Do not use chrome or industrial finish hand tools with impact drivers  
 • ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

## WHEEL/AXLE PULLERS AND DRIVE LINE



DHP1



FHP1

### Wheel Hub Removal Adaptors

#### DHP1 Wheel Hub Removal Adaptor for Dodge® Vehicles

- Designed to remove the front hubs found on 3/4-ton (2500 Series) and 1-ton (3500 Series) Dodge® pickup trucks
- Cuts the flat rate for changing out U-joints, front differential service, ball joints and any front hub service
- On average it takes 3.4 hours to do both sides using a sledge hammer, torch or heavy-duty slide hammer—with the DHP1, it takes about one hour to do both sides
- No broken rotors when using a sledge hammer
- No heavy slide hammers to use
- Wheel bearing and seal will not get damaged when using a torch on a stuck hub

#### FHP1 Wheel Hub Removal Adaptor for Ford® Vehicles

- Designed to take off the front hubs found on the Ford® F-250®/F-350® series Ford® pickup trucks
- Cuts the flat rate for changing out U-joints, front differential service, ball joints and any front hub service
- Soft insert of the socket will not damage the studs



CJ129A



YA498A

### Wheel/Axle Hub Pullers

#### CJ129A ‡ Universal Wheel Hub Puller (Blue-Point®)

- Removes the front wheel/axle assembly on all front wheel drive Ford®, GM®, Chrysler® and most imported cars
- Also used to remove the rear brake drums on tapered axles, such as those found on AMC® and Chrysler® vehicles
- Removable anvil fits over a 1-1/8" hex on the pressure screw
- Includes adjustable legs

#### YA498A Front Wheel Drive Hub Puller (Blue-Point®)

- For most US and import vehicles with independent front suspension
- 5/8"-18 x 5-1/2" pressure screw size



CJ1250



CJ1300

### Slide Hammers and Shafts

#### CJ1250 Slide Hammer, 12 lb, 5/8"-18 Thread (Blue-Point®)

- Designed to pull rear axles
- Slide hammer is approximately 25-1/4" long with a 5/8"-18 thread
- Can be used with the YA498A Hub Puller

#### CJ1300 Heavy-Duty Hub/Rotor Puller (Blue-Point®)

- Heavy-duty 1" shaft is designed for tough pulling jobs such as hubs, rotors and axles
- Slide hammer is approximately 28-1/2" long with a 5/8"-18 threaded hex bolt, which allows the end user to bolt the pulling adaptors to the end of the shaft, locking it in place and taking much of the stress off the threads
- 10 lb hammer





**Differential Service Tools**

| Stock No.      | Wrench Size, inches (mm) | Drive Size, inches | O.D. Wrench End, inches (mm) | O.D. Drive End, inches (mm) | Bolt Clearance, inches (mm) | Hex Depth, inches (mm) | Overall Length, inches (mm) |
|----------------|--------------------------|--------------------|------------------------------|-----------------------------|-----------------------------|------------------------|-----------------------------|
| <b>M3548A</b>  | 2-3/4 (69.85)            | 3/4                | 3-9/16 (90.4)                | 1-3/4 (44.4)                | 2-5/16 (58.9)               | 1-7/32 (31)            | 3-3/4 (95.2)                |
| <b>M3586</b>   | 1-7/8 (200)              | 3/4                | 2-3/8 (60.3)                 | 1-3/4 (44.4)                | 2 (50.8)                    | 1-1/8 (28.5)           | 2-3/4                       |
| <b>M3587</b>   | (36)                     | 3/4                | 2 (50.8)                     | 1-3/4 (44.4)                | 1-9/16 (39.6)               | 1 (25.4)               | 2-1/4                       |
| <b>IMDM360</b> | (36)                     | 1/2                | (50.8)                       | (46)                        | 1-5/8 (41.3)                | 7/8 (22.2)             | (57.2)                      |

**M3548A Diesel Pinion Nut Impact Socket**

- For use on pinion nuts only

**M3586 Pinion Nut Impact Socket**

- Used to remove the pinion nut on Dana® 80 Series axles on late model Ford® and Dodge® trucks
- Designed to handle the specific application

**M3587 Pinion Nut Impact Socket**

- Used to remove the pinion nut on 2005 Cadillac® CTS, 2003 GM® and 2004 Dodge® trucks with 11.5" AAM axles
- Additional applications include the removal of late-model BMW® axle shafts, plus BMW® E38, E39, M3 and SUVs with 36 mm 12-point axle nuts
- Designed to handle the specific application

**A176 Differential Adjusting Wrench**

- For most differentials where 9/32" and 17/32" adjustment nuts are found
- Useful on transmissions, steering gears and some water pumps where an adjustable spanner wrench is required
- 10" long

**S6436 3/4" Drive Metric 36 mm Deep Impact Socket**

- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat treated for optimum strength and durability

**S6657 Shallow Impact Socket**

- Used for the removal and installation of differential adjusters
- 57 mm; 12-point; 1/2" drive

**IMDM360 1/2" Drive 12-Point Metric 36 mm Flank Drive® Shallow Impact Socket**

- Applications include the removal and installation of Duramax® Diesel front crankshaft bolt, late-model BMW® axle shafts, and 2003 GM® and 2004 Dodge® pinion nuts on trucks with 11.5 AAM axles

**FRONT WHEEL DRIVE TOOLS**

**Boot and Joint Tools**

- CV boots fit 98% of autos, 4 x 4 and utility vehicles
- CV boots are easily trimmed to length to help reduce the number of boots needed on hand
- All boots are made from a patented rubber material with a high elasticity tolerance to heat and cold
- Install CV boots quickly and easily with a pneumatic installer (optional)



**YA3050 Boot Clamp Pliers (Blue-Point®)**

- For earless-type clamps, including those found on late-model GM® inboard CV universal joints

**YA3080 Boot Clamp Pliers (Blue-Point®)**

- For ear-type clamps
- Sturdy enough for ear-type clamps, including late-model GM® outboard CV universal joints

**YA3085 Boot Banding Tool (Blue-Point®)**

- For reinstallation of BAND-IT® or BAND-IT Jr.® boot bands

**Hub Lock Nut Sockets**

**S6800 8-Pin Hub Lock Nut Socket - 1/2"**

- Socket required for repair and replacement of the front hub lock nut on Toyota® trucks (2WD) 2007 and newer



**Special Application Axle Nut Sockets (inches)**

**S6804 1/2" Drive Axle Hub Impact Socket**

- For the removal and installation of axle hub bearing retaining nuts on 2011-current GM® trucks with 11.5" rear axles
- Snap-on® impact sockets are heat treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Snap-on® uses a proprietary blend of a special alloy socket steel that provides long life and great strength
- Tool is similar to Kent-Moore® part number CH50636

**S6806 6-Pin Axle Nut Socket**

- Special geometry is incorporated into the socket to remove and tighten axle nuts
- Manufactured from special steel with a higher alloy content
- Designed to assist in the removal and installation of older-style (2000-2011) axle nuts from Dodge® 2500 and 3500, and GM® trucks with 11.5" rear axles
- Precision machined and heat treated for optimum strength and durability



• Screen puller application  
 • Inspect the puller, do not use damaged parts  
 • Use the proper type and size puller for the job  
 • †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4



## DRIVE LINE: FRONT WHEEL DRIVE TOOLS



FBG1



CVBOOTKIT

CVBOOTRP

CVBOOTLG



FABLM8E

### Boot and Joint Tools

- CV boots fit 98% of autos, 4 x 4 and utility vehicles
- CV boots are easily trimmed to length to help reduce the number of boots needed on hand
- All boots are made from a patented rubber material with a high elasticity tolerance to heat and cold
- Install CV boots quickly and easily with a pneumatic installer (optional)

#### FBG1 Flex CV Boot Installer

- Reduces CV boot installation to less than 20 minutes
- Tool stretches the CV boot, allowing it to slip over the trunion for rapid installation and reduced fatigue
- Includes flex boot installer, FBGAR air regulator and a storage case
- Use the CV boots listed on this page

#### FBGAR Air Regulator

- Air regulator for FBG1 Flex CV Boot Installer

#### CVBOOTKIT Complete CV Boot Replacement Kit (Blue-Point®)

- Includes (6) small CV boots, (4) large CV boots, (2) rack-and-pinion boots, stainless steel clamps and grease

#### CVBOOTLG Large CV Boot (Blue-Point®)

- Includes a boot, clamps and grease

#### CVBOOTLGPK Large CV Boot Kit (Blue-Point®)

- Includes (12) CVBOOTLG

#### CVBOOTSM Small CV Boot (Blue-Point®)

- Includes a boot, clamps and grease

#### CVBOOTSMPK Small CV Boot Kit (Blue-Point®)

- Includes (12) CVBOOTSM

#### CVBOOTRP Universal Rack and Pinion Kit (Blue-Point®)

- Includes a boot, clamps and grease

#### CVBOOTRPPK Universal Rack and Pinion Boot Kit (Blue-Point®)

- Includes (12) CVBOOTRP

#### CVBOOTXS ATV Flexx CV Boot (Blue-Point®)

- Includes boot, clamps and grease

#### CVBOOTXSPK ATV Flexx CV Boot Kit (Blue-Point®)

- Includes (12) CVBOOTXS

### Ball Hex/Long, mm, Chrome (3/8")

#### FABLM8E 3/8" Drive Metric 8 mm Long Ball

#### Hex Socket Driver

- 8 mm hex; 3/8" drive
- For 1978-later Dodge® Omni and Plymouth® Horizon standard transmission drive axle flange bolts



YA2340



YA7244A



FIH9057B



LDT3812



LDTM3812



S5902



XLE1012A



SLEPL200

## Transmission Service Tools

### YA2340 Sealing Cap Set (Blue-Point®)

- Retains transmission fluid by sealing the transmission and transaxles when the drive shaft or drive axle is removed on most US and import vehicles
- Side gear centering for Ford® transaxles
- Five caps cover a range of 1-2-3/16" (25.4-55.37 mm)
- Segmented design prevents caps from slipping

### YA7244A Quick-Connect/Disconnect Tool

- For late-model Ford® vehicles using push lock connectors on transmission cooler lines, as well as on fuel lines
- 1-1/4" dia

### FIH9057B Transmission Line Quick-Disconnect Tool

- For 3/8" O.D. and 1/2" O.D. transmission and fuel lines on certain Ford® and Cadillac® models
- Constructed from a durable 30% glass-filled nylon allows more pressure to be applied and delivers a longer tool life than plastic units
- Compact design allows access in tight quarters

### FOS1 Transmission Output Shift Socket

- Four pin socket designed to remove the transmission output shaft retaining nut on Ford® 5R100 automatic transmissions
- Tool needed when doing transmission service such as removing and replacing transmission seals
- Manufactured from special alloy steel
- Precision machined and heat treated for optimum strength and durability

### LDT3812 Transmission Oil Cooler Line Disconnect Tool (Blue-Point®)

- Two sizes (3/8 and 1/2") are designed to disconnect transmission cooler lines
- 3/8" for use on 2003-later Ford® V8 Explorer, 2004-later Ford® F-150 and Cadillac® vehicles
- 1/2" for use on Ford® F-250/F-350/F-450 Super-Duty trucks

### LDTM3812 Camshaft Seal Kit (Blue-Point®)

- Easily removes and installs camshaft and crankshaft seals without damage
- Compact puller with unique extracting hooks engages seal for quick removal
- Interchangeable sleeves and mandrels allow easy installation of the new seal
- Fits seals 21.5-64 mm

### S5902 Oil/Transmission Plug Box End 17 mm, 6-Point, 21 mm, 12-Point Wrench

- Box ends are 17 mm, 6-point and 21 mm, 12-point
- Designed for VW® transmission drain plugs
- 258 mm long

### XLE1012A E10-E12 TORX® Standard 10° Offset Box Wrench

- Box end TORX® sizes are E10 and E12
- Drive shaft must be removed when towing 1980 Chevrolet® Corvette® and 1/2-, 3/4- and 1-ton GMC® and Chevrolet® trucks
- Designed to access drive line fasteners
- Also services AMC® drive lines

### SLEPL200 1/2" Drive 20EPL TORX Plus® with Countersink Socket

- SLEPL Series of TORX Plus® sockets with a shallow countersink are designed for use on external TORX Plus® low-profile head fasteners so the user can fully engage the fastener head
- For removal and installation of low-profile drive plate and flywheel bolts on QR25 Nissan® motors with automatic transmissions
- Similar to the J-45816 Nissan® specialty tool
- For flywheel bolts on Nissan® QR25 motors with manual transmissions use the FTX50TPE 3/8" Drive T50 TORX Plus® Male Socket

## Pressure Gauge Sets

### EEPV508 ‡ Automatic Transmission and Engine Pressure Set

- Includes (2) gauge assemblies for high-pressure (500 PSI) and low-pressure (100 PSI) ranges, adaptors to test a wide variety of automatic transmissions, a comprehensive instruction manual with an applications table and a storage case
- (4) special fittings are also included for connection to hard-to-reach test ports in areas requiring a 45° or 90° angle
- High-pressure gauge assembly includes a 3.5" dia. gauge
- 10' flexible hose with fluid coupler
- 6' flexible hose with fluid coupler
- Technical Support: 1-855-779-8880



EEPV508



- Do not use chrome or industrial finish hand tools with impact driver
- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## DRIVE LINE: TRANSMISSION



207FHRM

SHRM19

### Low-Profile Hex Sockets

Set Contains: 207FHRM

| Stock No. | Drive Size, inches | External Hex | Length, inches (mm) |   |
|-----------|--------------------|--------------|---------------------|---|
| FHRM7     | 3/8                | 7            | 1 (25.4)            | • |
| FHRM8     | 3/8                | 8            | 1 (25.4)            | • |
| FHRM10    | 3/8                | 10           | 1 (25.4)            | • |
| FHRM12    | 3/8                | 12           | 1 (25.4)            | • |
| FHRM13    | 3/8                | 13           | 1 (25.4)            | • |
| FHRM14    | 3/8                | 14           | 1 (25.4)            | • |
| CPT110A   | 3/8                | 17           | 1 (25.4)            | • |
| SHRM19    | 1/2                | 19           | 1-1/4 (31.72)       |   |

#### 207FHRM 7 pc 3/8" Drive 6-Point Metric Low-Profile Socket Set

- Includes (7) low-profile sockets (7, 8, 10, 12, 13, 14 and 17 mm)



CPT110A

### General Service Tools

#### CPT110A 3/8" Drive 6-Point Metric 17 mm VW® Transmission Drain Plug Socket

- For use on VW® transmission drain plugs
- Additional applications include removing the front wheels on Triumph® Daytona® and America® motorcycles



S8673C1



S8673B3

### Bushing/Oil Seal Pullers and Drivers

- Designed to easily remove or replace transmission rear extension housing bushings and oil seals on most Ford®, GM®, Chrysler® and AMC® automatic transmissions

| Stock No. | Type           | O.D., inches | Depth, inches (mm) | Applications                             |
|-----------|----------------|--------------|--------------------|--|
| S8673C1   | Driver         | —            | 1-15/16 (49.2)     | Ford® C-4 Series, GM® 200/350/375 Series |
| S8673B3   | Seal Installer | 2-3/4        | 1-15/16 (49.2)     | Ford® C-4 Series, GM® 200/350/375 Series |

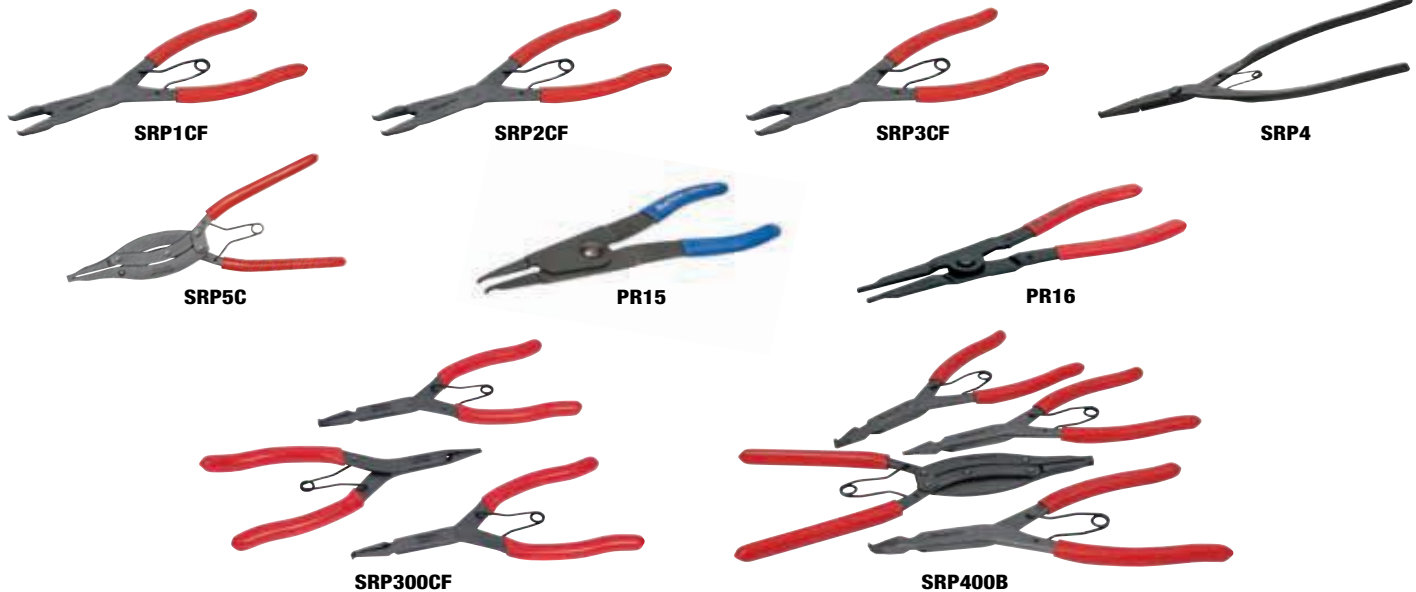


CRC1

### Transmission Service Tools

#### CRC1 1/2" Drive Chrysler® Rear Carrier Socket

- Used to turn/adjust the differential bearing adjuster within the differential on Chrysler®/Dodge® 7-1/4", 8-1/4" and 9-1/4" rear ends
- Tool is made of a flat steel piece with a 1-1/4" exterior hex and 1/2" square drive
- Circular step to prevent the tool from going through the adjuster
- Small size for easy access and storage



**Snap Ring Pliers**

- Parallel jaw lock-ring pliers (high leverage) for easy locking removal/installation
- Cushion grips offer comfort while resisting transmission fluids
- Natural steel finish with a tough, protective clear coating to prevent corrosion

**SRP1CF Snap Ring Pliers**

- 90° angle serrated jaws (for GM® transmission output shaft)
- Parallel jaw lock-ring pliers (high-leverage) for easy lock-ring removal/installation
- Cold-forged alloy steel ensures a strong, durable tool
- Cushioned plastisol handles are designed for comfort and leverage, reducing fatigue while resisting transmission fluid
- 1/16" tip width
- 8-15/16" long

**SRP2CF Snap Ring Pliers**

- 90° angle serrated jaws with dimples for lock-rings with tabs
- Parallel jaw lock-ring pliers (high leverage) for easy lock-ring removal/installation
- Cold-forged alloy steel ensures a strong, durable tool
- Cushioned plastisol handles are designed for comfort and leverage, reducing fatigue while resisting transmission fluid
- ASME®/ANSI® B107.19-1993
- 3/32" tip width
- 8-7/8" long

**SRP3CF Snap Ring Pliers**

- Straight-tip serrated jaws
- Serrated jaw with a dimple for snap rings with tabs
- Cold-forged alloy steel ensures a strong, durable tool
- Cushioned plastisol handles are designed for comfort and leverage, reducing fatigue while resisting transmission fluid
- 3/32" tip width; 1/8" dimple

**SRP4 Snap Ring Pliers**

- 3/32" wide ends with a 1/8" dia. dimple for snap rings with tabs
- Jaws are bent at a 90° angle
- 14" long

**SRP5C Snap Ring Pliers**

- Straight, non-serrated tip with dimples for lock-rings with tabs
- Seven pivot points create compound high-leverage for easy lock-ring expansion
- Jaws always remain parallel
- 1/4" tip width; 1/8" tip thickness; 10/18" long

**PR15 External Snap Ring Pliers (Blue-Point®)**

- Wide 1/16" tips are angled at 90°
- 8-3/4" long

**PR16 External Snap Ring Pliers (Blue-Point®)**

- Wide 3/16" notched tips
- 8-3/4" long

**SRP300CF Snap Ring Pliers Set**

- Includes SRP1CF, SRP2CF and SRP3CF Snap Ring Pliers in a storage tray

**SRP400B 4 pc Snap Ring Pliers Set**

- Includes SRP1CF, SRP2CF, SRP3CF and SRP5B Snap Ring Pliers in a storage tray

**Transmission Pump Puller**

**CJ193 Transmission Pump Puller**

- Applications include most GM®, Ford® C-4, C-5 AOD (automatic overdrive) and Chrysler® TF904-72 ON
- Includes a 1-1/4 lb slide hammer and 3/8"-16 x 14" slide screw
- Removal of the front pump on GM®, Ford® and Chrysler® transmissions requires two pullers

**CJ193-1-1 Optional Transmission Pump Adaptor**

- M10-1.5 male end is designed to work on Ford® and Chrysler® transmission pumps
- 3/8"-16 female end screws onto the CJ193 slide screw
- 2-1/4" long



**CJ193**



**CJ193-1-1**



- Do not use chrome or industrial finish hand tools with impact driver
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## DRIVE LINE: TRANSMISSION



YA328A

### Magnetic Angle Locator

#### YA328A Magnetic Angle Locator (Blue-Point®)

- Ideal for checking the drive shaft angle
- Red degree indicator is located behind the numbers for exact reading of graduations
- SAE and metric scales molded into the base of the tool are 1/8" and centimeters
- Large 1-7/8 x 7/8" magnet in the base for secure retention

## DRIVE SHAFT



UJP1

### Universal Joint Tools

#### UJP1 Universal Joint Press Set

- Press frame features a large throat and vise mount capability for U-joint applications
- Locking cup design holds the cup in place
- Large, coarse thread pressure screw for extra strength and maximum force
- Grease Zerk fitting for smooth screw action
- Includes an application chart and includes a storage case

## CLUTCH



A144A



A145



GA454A



HD1450



SP2031A



A37M



YA7646

### Clutch Service Tools

#### A144A Flywheel Turner

- Used when replacing the clutch pressure plate
- Turns the flywheel to a predetermined point that might be bypassed when bumping with the starter
- 12-1/8" long

#### A145 Clutch Aligner Set

- Smaller companion to the A37M
- Includes (5) double-ended collets ranging in size from .578-.810"

#### A37M Clutch Aligner Set

- For vehicles with standard transmissions, including many import cars
- Allows quick aligning for the complete range of single-disc clutches; includes (16) collet sizes ranging from 0.465-1.181"
- Packaged in a PB21 Storage Case

#### GA454A Adjusting Wrench for Spicer® Clutch

- For internal adjustment of a Spicer® angle spring and multiple lever clutches
- Eliminates the need for prybars that could damage clutch parts
- 15" long

#### HD1450 Motorcycle Clutch Adjustment Tool

- Features a window in the socket so the technician can see the position of the hex while holding the adjustment screw as the jam nut is tightened
- Unique handle pivots from one side to the other, ensuring the window is always visible
- All-in-one tool, no fumbling with two separate pieces to reach a recessed adjuster

#### SP2031A † Pilot Bearing Puller (Blue-Point®)

- Attaches to slide hammer shafts with 3/4"-16 or 5/8"-18 threads
- Pressure screw adaptor is made of stress-resistant steel
- Industrial finish

#### YA7646 Clutch Coupling Tool for Ford® Vehicles (Blue-Point®)

- Reaches and disconnects the hydraulic clutch line from the clutch slave cylinder without damage to the coupling or clutch line
- Same as Ford® No. T88T-70522-A

## Lightweight Aluminum Service Jacks

### FJ175 1.75-Ton Aluminum High-Performance Jack

- Low 3.4" height fits easily under a variety of vehicles
- 18" maximum lifting height
- Rated at 3,500 lb lifting capacity for a variety of jobs
- Lightweight aluminum design is portable and moves across the floor effortlessly
- Premium hydraulic pump and aircraft-grade aluminum chassis components
- Greater lift height per handle pump stroke than most other jacks
- Rear caster assemblies feature roller thrust bearings for high load capacity
- Professional one-piece handle design with diamond knurling for improved grip
- Single front roller allows for access in narrow areas
- High-performance hydraulic oil for extreme temperature stability and reduced wear
- Grease fittings in the yoke and lift arm pivots for increased longevity
- Meets ASME®/PASE® (2014)



FJ175

| Specifications                         | FJ175         |
|--|---------------|
| Capacity, lb (kg)                      | 3,500 (1,588) |
| Low Height, in (mm)                    | 3.42 (86.7)   |
| Max Lifting Height, in (mm)            | 18 (457)      |
| Saddle Size, Diameter, in (mm)         | 4.55 (116)    |
| Ground Clearance, in (mm)              | 0.22 (5.59)   |
| Chassis Length, in (mm)                | 24.9 (632)    |
| Overall Width at Front Roller, in (mm) | 6.74 (171)    |
| Overall Width at Rear Casters, in (mm) | 12.6 (320)    |

| Specifications                                     | FJ175                     |
|--|---------------------------|
| Handle Length, in (mm)                             | 47.8 (1,214)              |
| Front Roller Diameter, in (mm)                     | 1.95 (49.5)               |
| Front Roller Width, in (mm)                        | 5.50 (140)                |
| Caster Wheel Diameter, in (mm)                     | 1.68 (42.7)               |
| Pump Strokes to Reach Max Lifting Height (No Load) | 10-12                     |
| Hydraulic Oil                                      | Snap-on® High Performance |
| Weight, lb (kg)                                    | 47 (21.3)                 |
| Shipping Weight, lb (kg)                           | 50.5 (22.9)               |

## Short Chassis Service Jacks

- Lift arm is contoured to allow clearance with the vehicle's rocker panel
- Premium U-Cup seals on pumps and ram pistons for long life
- Professional one-piece handle design
- Special high-performance hydraulic oil for extreme temperatures and reduced wear
- Internal filtration with a magnet in the pump reservoir to maintain oil cleanliness
- Powder-coated finish for durability
- Dual-pump pistons for speed to reach service height quickly
- Grease fittings in the front wheels and yoke pivot
- Removable saddle with a rubber pad
- Front wheels have a nut and shoulder design for positive retention
- Meets ASME® PASE-2014

| Specifications                                       | FJ200                          | FJ300                          | FJ400                          |
|--|--------------------------------|--------------------------------|--------------------------------|
| Capacity, lb (kg)                                    | 4,000 (1,814)                  | 6,000 (2,721)                  | 8,000 (3,629)                  |
| Low Height, inches (mm)                              | 3-1/2 (89)                     | 3-13/16 (97)                   | 4-3/16 (106)                   |
| Max Lifting Height, inches (mm)                      | 23 (584)                       | 23-3/8 (594)                   | 24-1/2 (622)                   |
| Saddle size, inches (mm)                             | 5-7/32 x 5-7/32<br>(132 x 132) | 5-7/32 x 5-7/32<br>(132 x 132) | 5-7/32 x 5-7/32<br>(132 x 132) |
| Ground Clearance, inches (mm)                        | 9/16 (14)                      | 9/16 (14)                      | 21/32 (17)                     |
| Chassis Length, inches (mm)                          | 31 (787)                       | 31 (787)                       | 32-1/2 (826)                   |
| Overall Width (at front wheels), inches (mm)         | 11-1/4 (286)                   | 11-1/4 (286)                   | 11-1/2 (292)                   |
| Overall Width (at rear casters), inches (mm)         | 14-1/2 (368)                   | 14-13/16 (376)                 | 15 (381)                       |
| Body Width, inches (mm)                              | 7-1/8 (180)                    | 7-1/8 (180)                    | 7-1/8 (180)                    |
| Handle Length, inches (mm)                           | 47-3/16 (1,201)                | 47-3/16 (1,201)                | 47-3/16 (1,201)                |
| Side Plate Thickness, inches (mm)                    | 15/64 (6.0)                    | 17/64 (6.7)                    | 9/32 (7.0)                     |
| Front Wheel Diameter, inches (mm)                    | 3-5/16 (84)                    | 3-11/16 (94)                   | 2 (51)                         |
| Front Wheel Width, inches (mm)                       | 2 (51)                         | 2 (51)                         | 2-19/32 (66)                   |
| Axle Diameter, inches (mm)                           | 25/32 (20)                     | 25/32 (20)                     | 1 (25)                         |
| Caster Wheel Diameter, inches (mm)                   | 2-19/32 (66)                   | 2-19/32 (66)                   | 3-7/8 (99)                     |
| Saddle Raise Height (one pump, no load), inches (mm) | 10-11/16 (272)                 | 9-13/32 (239)                  | 8-1/2 (216)                    |
| Weight, lb (kg)                                      | 101.0 (45.8)                   | 110.8 (50.3)                   | 128.0 (58.1)                   |
| Shipping Weight, lb (kg)                             | 103.5 (46.9)                   | 122.0 (55.3)                   | 135.8 (61.6)                   |

Technical Support and Service: 877-762-7664 (US); 866-824-0524 (Canada)



FJ200



FJ300



FJ400



- Do not exceed capacity of jack or jack stands
- Do not work on vehicle supported by jack, use jack stands
- Use jack and jack stands only on hard level surfaces
- Do not use chrome or industrial finish hand tools with impact driver
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## LIFTING: TRANSMISSION JACKS/FUEL TANK STANDS



### Under-Hoist Transmission Jacks

- Capacity rating is 1,000 lb
- Maximum height of 75" to access a wide variety of transmissions and transfer cases
- Low height of 35" for ease of lifting transmission off of saddle
- Adjustable ratcheting arm saddle design adapts to virtually any configuration of FWD, RWD and 4-wheel drive transfer case
- Saddle tilt adjusters have ball-bearing thrust washers for ease of adjustment under load
- Heavy-duty wide and stable base configuration is 36 x 36" total width
- (4) 5" polyurethane swivel casters; (2) in each locking style
- Premium seals on pump and ram pistons for long life
- Special high-performance hydraulic oil for extreme temperatures and reduced wear
- Cambuckle tie down strap included to secure load
- ASME PASE 2014 compliant

| Specifications                                | TJ100                     | TJA100                    |
|---|---------------------------|---------------------------|
| Capacity, lb (kg)                             | 1,000 (454)               | 1,000 (454)               |
| Minimum Height To Saddle Plate, inches (mm)   | 35 (889)                  | 35 (889)                  |
| Maximum Height To Saddle Plate, inches (mm)   | 75 (1,905)                | 75 (1,905)                |
| Number of Pumps to Reach Maximum Height       | 72                        | 31                        |
| Saddle Finger Width Range, inches (mm)        | 14.8–23.3 (376–592)       | 14.8–23.3 (376–592)       |
| Saddle Finger Height Range, inches (mm)       | 1.0–6.3 (25–160)          | 1.0–6.3 (25–160)          |
| Saddle Finger Locked Angle Positions, degrees | 50/70/90                  | 50/70/90                  |
| Saddle Tilt Angle (side to side), degrees     | ± 10                      | ± 10                      |
| Saddle Tilt Angle (fore/aft), degrees         | ± 10                      | ± 10                      |
| Base Size, inches (mm)                        | 36 x 36 (914 x 914)       | 36 x 36 (914 x 914)       |
| Caster Wheel Diameter, inches (mm)            | 5 (127)                   | 5 (127)                   |
| Tie-Down Strap Width x Length, inches (mm)    | 1 x 65 (25 x 1,651)       | 1 x 65 (25 x 1,651)       |
| Hydraulic Oil                                 | Snap-on® High-Performance | Snap-on® High-Performance |
| Net Weight, lb (kg)                           | 198 (90)                  | 202 (92)                  |
| Shipping Weight, lb (kg)                      | 241 (109)                 | 245 (111)                 |

#### TJ100 1/2-Ton Telescopic Hydraulic Transmission Jack

- Dual-stage hydraulic ram
- Saddle is raised and lowered with hands-free foot pedals

#### TJA100 1/2-Ton Telescopic Air/Hydraulic Transmission Jack

- Air-assisted dual hydraulic ram
- First stage air-assisted motion is raised and lowered by foot pedals; second stage motion uses a hand lever with a knob for lowering the saddle



YA727B

#### YA727B 1-Ton Wishbone Hydraulic Transmission Jack (Blue-Point®)

- For use on bus, truck, farm, automotive and construction vehicles
- Load-restraint chain is included
- Two heavy cast adjustable mounting plates
- Four wedges to support the transmission

### Floor-Style Transmission Jacks

| Specifications            | YA727B                                      |
|---------------------------|---|
| Capacity, tons            | 1   |
| Chassis Length, inches    | 48  |
| Chassis Width, inches     | 29-7/8                                      |
| Exp. Saddle Area, inches  | 20-1/2 x 18-1/2                             |
| Handle Length, inches     | 19-1/2                                      |
| Jack Size, inches         | 47-1/2 x 28-1/4                             |
| Lifting Head Size, inches | 15-1/2 x 15-1/2                             |
| Maximum Height, inches    | 44-3/4                                      |
| Minimum Height, inches    | 10  |
| Saddle Base, inches       | 18-5/8 x 12-1/4                             |
| Tilt                      | 44° (fwd), 39° (rear), 13° (left and right) |
| Weight, lb                | 309   |



## Jack Stands (in pairs)

- Sturdy welded steel construction for superior strength
- One-piece multi-position saddle provides a quick adjustment that securely locks into the desired location

| Stock No. | Capacity, tons | Low Height, inches | Maximum Height, inches |
|-----------|----------------|--------------------|------------------------|
| YA874B    | 3 (per pair)   | 12                 | 19                     |
| YA875B    | 6 (per pair)   | 16-3/8             | 25-3/8                 |
| YA512A    | 12 (per pair)  | 17-1/2             | 27-1/2                 |

### YA874B 3-Ton Jack Stands

- 3-ton capacity per pair (2 each)

### YA875B 6-Ton Jack Stands

- 6-ton capacity per pair (2 each)

### YA512A Jack Stands

- Counter-weighted pawl serves as a secure locking device to prevent the load from accidentally disengaging
- 12-ton capacity per pair (2 each)



YA874B



YA875B



YA512A



YA779B

## Utility Stand

- Slim design maximizes work spaces and storage
- Acme screw allows for precise height adjustment

| Stock No. | Capacity, tons | Low Height, inches | Maximum Height, inches | Base Size, inches | Cap Size, inches |
|-----------|----------------|--------------------|------------------------|-------------------|------------------|
| YA779B    | 3/4            | 53-1/4             | 80                     | 12 (diameter)     | 5-5/16 x 2-7/16  |

## WHEEL DOLLY



YA765D

## Hydraulic Wheel Dolly

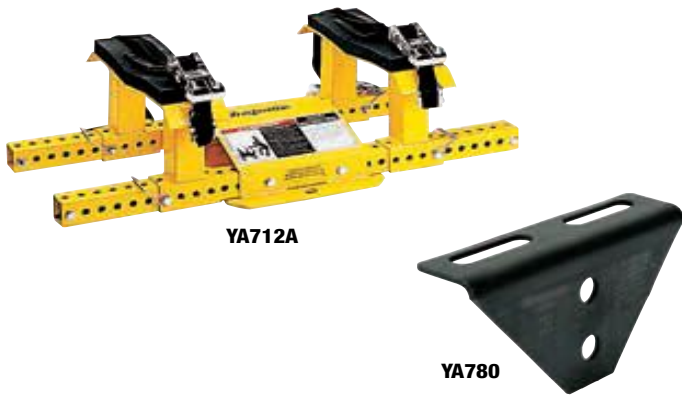
- Provides smooth, positive power for the removal and installation of single, tandem, and duplex tires and wheels
- Lift arms can be adjusted to handle different wheel combinations

| Stock No. | Capacity, tons | Lift Range, inches | Lifting Arm (length), inches | Lifting Arm (spread), inches | Length, inches | Width, inches | Height, inches |
|-----------|----------------|--------------------|------------------------------|------------------------------|----------------|---------------|----------------|
| YA765D    | 3/4            | 2-1/2–8-3/8        | 26                           | 27-1/2                       | 45-1/8         | 39-1/2        | 34-5/8         |



- Do not exceed capacity of jack or jack stands
- Do not work on vehicle supported by jack, use jack stands
- Use jack and jack stands only on hard level surfaces
- Read safety precautions on pages W1 to W4

## LIFTING: TRANSMISSION JACKS/FUEL TANK STANDS



### Transmission Jack Accessories

#### YA712A Fuel Tank Stand

- Easily services fuel tank, fuel pumps and other components
- Handles fuel tanks up to 40 gal (empty)
- Includes anchoring straps and grounding wire
- 9-1/4" H x 32" L x 15-3/8" W

#### YA780 Transmission Jack Bracket

- Fits most FWD and RWD automatic transmissions
- Used to stabilize a transmission during removal and installation
- Used with a transmission jack

## LIFTING: ENGINE HOISTS AND SLINGS



### Engine Hoist and Slings

#### A238 Engine Sling

- 40" flexible cable with eyelet holes on each end for 1/2" dia. bolts

#### GA197A Lifting Pulling Tool (Blue-Point®)

- Excellent for removing engines from autos and trucks
- 6' maximum lift
- 2' minimum distance between hooks
- Anchored hook swivels a full 360°
- Automatic letdown provides easy release one notch at a time
- 1-ton capacity

## LIFTING: SERVICE JACKS



### Hydraulic Bottle Jacks

| Stock No. | Capacity, tons | Low Height, inches | Maximum Height, inches | Screw Extension, inches | Base Size, inches | Handle Length, inches | Cap Diameter, inches | Operating Force, lb |
|-----------|----------------|--------------------|------------------------|-------------------------|-------------------|-----------------------|----------------------|---------------------|
| YA1228    | 8              | 8-7/8              | 17-5/8                 | 2-3/4                   | 4-3/4 x 4-3/4     | 18-1/8                | 1-3/8                | 101                 |
| YA1229A   | 12             | 9-1/2              | 18-5/8                 | 3-1/8                   | 5-1/4 x 5-1/8     | 18-1/8                | 1-3/4                | 102                 |
| YAS1229A* | 12             | 6                  | 10-5/8                 | 1-5/8                   | 5-1/4 x 5-1/8     | 18-1/8                | 1-3/4                | 89                  |
| YA1233A   | 20             | 9-1/2              | 18-5/8                 | 3-1/8                   | 6-1/4 x 5-7/8     | 18-1/8                | 2                    | 109                 |
| YAS1233A* | 20             | 6-1/2              | 11-1/4                 | 1-5/8                   | 6-1/4 x 5-7/8     | 18-1/8                | 2                    | 101                 |

\*Low-profile model

# BATTERY SERVICE

FROM CHARGING, TESTING AND MAINTAINING TO BOOSTING, INVERTING AND DIAGNOSING, WE'VE GOT ALL OF YOUR CUSTOMERS' BATTERY SYSTEM NEEDS COVERED – WHETHER IT'S SERVICING 6, 12 OR 24 V SYSTEMS.

## OUR CHARGE IS KEEPING YOU PREPARED.

Our Battery Charger Plus™ is the most advanced way to smart charge batteries at whatever rate you need. We also offer a full line of battery system testers that provide ultimate accuracy in basic, enhanced, wireless and advanced platforms to determine the condition of a battery, alternator or starter. Plus, our engine starters provide the crank assist needed for stranded vehicles.



# BATTERY CHARGERS



EEBC500A

## Battery Charger Plus™

| Specifications                      | EEBC500A‡          | EEBC500INT             | EEBC500SOJ         |
|-------------------------------------|--------------------|------------------------|--------------------|
| Output Currents A DC                | 4/15 and 60A Boost | 60/12/4                | 60/15/4            |
| Output Voltages V DC                | 6/12/24            | 6/12/24                | 6/12/24            |
| Input Voltage (rated), V AC         | 120                | 230/240                | 100                |
| Crank Assist Duty Cycle             | 1/36               | 1/36                   | 1/36               |
| DC Lead Type                        | Fixed              | Fixed                  | Fixed              |
| DC Lead Length, feet (meters)       | 7' 6" (2.3)        | 7' 6" (2.3)            | 7' 6" (2.3)        |
| DC Lead Gauge                       | 4 AWG              | 4 AWG                  | 4 AWG              |
| DC Clamps                           | 500 A              | 500 A                  | 500 A              |
| AC Cord Length, feet (meters)       | 9 (2.7)            | 9 (2.7)                | 9 (2.7)            |
| Voltmeter                           | Digital            | Digital                | Digital            |
| Timer Type                          | Digital            | Digital                | Digital            |
| Ventilation                         | Fan Cooled         | Fan Cooled             | Fan Cooled         |
| Foam-Filled Wheel Size, inches (mm) | 10 (254)           | 10 (254)               | 10 (254)           |
| Weight, lb (kg)                     | 91.8 (41.6)        | 91.8 (41.6)            | 91.8 (41.6)        |
| Dimensions, L x W x H, inches       | 20.4 x 16.5 x 30.5 | 20.4 x 16.5 x 30.5     | 20.4 x 16.5 x 30.5 |
| Outdoor Use                         | Yes (cULus)        | No                     | No                 |
| Country of Use                      | North America      | Australia, Europe, UK  | Japan              |
| Power Supply Cord                   | Included           | EEBC5CABLE-A, E, U, U2 | Included           |

CE

### EEBC500A Battery Charger Plus™

- **PLUS:** Exclusive flash reprogram power supply maintains consistent OEM-specified voltage up to 100 A for three minutes
- **ADAPTIVE:** Performs a unique charge cycle for each lead-acid battery type: standard, AGM, GEL and deep cycle
- **VERSATILE:** Charges 6 V batteries, 12 V batteries and 24 V battery packs with a 4 A maintain rate, a 15 A fast rate or a 60 A boost mode
- **CONVENIENT:** Upper and lower battery service tool storage trays
- **INTELLIGENT:** Automatic microprocessor-controlled operation selects algorithm to optimize the cycle without overcharging

- **POWERFUL:** 300 amp engine start with a 20 second crank time at the 12 V setting
- **INFORMATIVE:** In maintain and fast rates, the unit displays the vehicle battery voltage, percent of charge and alternator percent of performance
- **STREAMLINED:** Higher working-height handle helps relieve back strain with an excellent design that looks like no other charger
- **TOUGH:** 10" foam-filled tires with a C-CLIP retention ride on a solid steel axle
- **Technical Support:** 866-713-6007



EEBC5CABLE-A



EEBC5CABLE-E



EEBC5CABLE-U



EEBC5CABLEU2



EEBC500CVR

### Battery Charger Plus™

- Select cable for use with EEBC500INT only
- EEBC5CABLE-A Australia Power Supply**
- EEBC5CABLE-E Europe Power Supply**
- EEBC5CABLE-U United Kingdom Power Supply 16 A**
- EEBC5CABLEU2 United Kingdom Power Supply 13 A**
- EEBC500-15 15' Positive and Negative Cable/Clamp Set**
- Lead set for the EEBC500 Series
- EEBC500CVR Battery Charger Plus™ Cover**
- Protective cover for the EEBC500 Battery Charger Plus™ Series and the EEBC400 Series

## Basic Chargers

### EEBC100A ‡ Battery Charger/Engine Starter (Blue-Point®)

- Tough steel clamps with copper jaws bite and hold top or side mount battery terminals tight
- 200 A 12 V engine starting available
- 40 A boost mode to energize the battery
- 2–6 A maintain mode floats as needed
- 6" wheels move easily over rough ground
- Rugged retractable handle provides convenient storage
- Master switch allows toggling from charge to engine start and off
- Start/Stop button initiates a charge or boost cycle, and a quick stop if needed
- Digital display indicates the voltage selected (6 or 12), the vehicle battery voltage and percent of charge; it also indicates the output current in amps being applied to the vehicle
- Technical Support: 866-713-6007



EEBC100A

## Bench Top Charger

| Stock No. | Input                  | Output                   | Battery Range (optimal) | Charging Cable Length | Dimensions, inches        | Shipping Weight, lb (kg) |
|-----------|------------------------|--------------------------|-------------------------|-----------------------|---------------------------|--------------------------|
| EEBC61220 | 120 V AC, 60 Hz, 4.4 A | 6 or 12 V; 2, 10 or 20 A | 25–200 Ah               | 6.0'                  | 10.75 L x 4.5 W x 7.875 H | 4.94 (2.24)              |

### EEBC61220 Bench Top Battery Charger (Blue-Point®)

- **INTELLIGENT:** Automatic battery charger utilizes an advanced multi-stage charging algorithm for an optimal charge; start the charging routine and walk away—the charger does the rest, without overcharging
- **VERSATILE:** Properly charges all types of lead-acid batteries: standard, AGM and gel, of which each type may also include: flat plate, spiral wound, deep cycle and marine
- **SAFE:** With reverse polarity protection and automatic operation, the charger brings safety to the shop
- **CONVENIENT:** A quick override sequence allows the unit to charge batteries with very low voltage conditions
- **INFORMATIVE:** Digital display indicates the battery voltage or charge percentage



EEBC61220

# POWER INVERTERS

## Power Inverters

### EEPI175 ‡ Power Inverter (Red)

- 175 W power inverter provides 110 V AC power inside of a vehicle
- Plugs into a vehicle's 12 V power outlet
- Convenient size fits in a cupholder
- (2) USB ports to power small electronic devices, such as tablets, computers and cell phones

### EEPI175-BLK ‡ Power Inverter (Black)

### EEPI2250 ‡ Power Inverter

- 2,250 W of continuous power and 4,500 W peak power to run a wide variety of tools, electronics and appliances
- Stable, clean and reliable power with a high surge capacity for use in the most demanding applications
- (3) 120 V AC outlets
- For tow trucks, fleets, construction vehicles and military use
- Unit must be hard-wired into a vehicle



EEPI175



EEPI175-BLK



EEPI2250



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## BATTERY CHARGERS



EEM500A

### Battery Maintainer

#### EEM500A ‡ 6/12 V 4 A Battery Maintainer

- Maintains battery voltage on stored cars, trucks, boats, SUVs, motorcycles and more so they start when required
- Perfect for new car showrooms to maintain battery voltage while car accessories are turned on to show customers
- Fully automatic 6/12 V operation, 4 A charging rate
- Compatible with conventional lead-acid, maintenance-free, AGM, gel and deep-cycle batteries
- Includes a quick-connect output cord with clamp set, ring terminal set and 12 V adaptor output accessories
- LED charging status indication, including completion
- Reverse polarity and battery fault warnings
- The eyelet cable can be permanently connected to a stored vehicle battery for future use

#### EEM500-1 Clamp Set

#### EEM500-2 Ring Kit

#### EEM500-3 12 V Plug



EEM4BANK

### Battery Maintainer

#### EEM4BANK Four Bank Battery Maintenance Station (Blue-Point®)

- Four independent channels; (3) 12 V and (1) 6/12 V
- Automatic operation
- Sealed case
- Small footprint
- VERSATILE: Properly charges and maintains all lead-acid battery types including: conventional flooded, AGM, spiral wound, marine and deep cycle
- INTELLIGENT: Utilizes an advanced multi-phase charging algorithm for an optimal charge every time
- BENEFICIAL: Charge and maintain process results in improved battery condition and restored reserve capacity
- SAFE: Reverse polarity protection and automatic operation the charger brings safety to the shop
- EFFICIENT: Independent outputs means that a troublesome battery on one channel does not create issues for the other channels
- CONVENIENT: Retractable hanger for underhood, wall mount with four-hole back panel or benchtop use
- Quick set up and smart display icon feedback results in effective charging for your operation
- LED indicators for reverse polarity, charging status, diagnostic battery errors and more
- Includes (4) 6' quick-connect lead/clamps (EEM4BANK-1)
- Optional 10' Extension Cable (EEM4BANK-2), 18" Lead/Clamps (EEM4BANK-3) and 18" Ring Terminal Leads (EEM4BANK-4) are available for a variety of shop needs

## D-TAC™ Elite

### EECS306C D-TAC™ Elite

- D-TAC™ Elite is a diagnostic charger, battery, starting and charging system analyzer, engine starter, DMM, cable voltage drop tester with flash reprogram mode up to 60 amps and more
- Includes the EECS304C MicroVAT™ ELITE Tester, EECS306C-5 Battery Test Cables (10'), EECS306C-6 Post Adaptors and Printer Paper Roll
- Integrated printer and cart
- Efficient multitasking: Once a diagnostic charge session has been started, the MicroVAT™ Elite (top analyzer) can be removed from the charger and used to diagnose other vehicles while the charger continues to diagnose and charge the original battery
- Conductance and deep scan battery test technology with 150 A load capability (a clicking sound heard when load is applied)
- Diagnostic charge cycle continuously monitors battery watching trends while maximizing charge acceptance, minimizing charge time
- No wasted time trying to charge defective batteries

### EECS304C MicroVAT™ Elite Tester

- MICROVAT™ Elite is the top unit of the D-TAC™ Elite without the base

### EECS306C-2 Amp Clamp

- High (0A 700A); Low (0A 70A)

### EECS306C-3 Cable Drop Cables

- Cable voltage drop test cables for EECS306C D-TAC™ Elite and EECS304C MicroVAT™ Elite

### EECS306C-4 Multimeter Probes

- Digital multimeter probe set for EECS306C D-TAC™ Elite and EECS304C MicroVAT™ Elite

- Infrared temperature sensor is built into the unit
- Charging system test uses the most innovative and decisive method and digital signal processing
- Cable voltage drop test determines the health of vehicle battery cables (with optional EECS306C-3 Cables)
- Built-in printer provides test results and custom shop information
- 3-1/2" large full-color 1/4" VGA display, color icons and test result graphs
- Visual and voice prompts in English, Spanish, French, Italian, Dutch or German help the user through the diagnostic process
- Digital multimeter (with optional EECS306-4 Lead Set)
- USB and infrared (IR) connectivity
- Heavy-duty ready; for more accuracy and capability, add the optional EECS306C-2 Dual Range Amp Clamp and EECS306C-3 Cable Voltage Drop Test Cables
- Technical Support: 800-388-6453

### EECS306C-5 Battery Test Cables

- Battery test cables for EECS306C D-TAC™ Elite and EECS304C MicroVAT™ Elite
- 10' long (included)

### EECS306C-6 Post Adaptors

- Included with the D-TAC™ Elite

### EECS306C-CVR Protective Cover

- Optional protective vinyl cover for the D-TAC™

### EECS500-1 Printer Paper

- Paper for EECS products

### EECS304C-1 Soft Storage Case

- Soft-sided carrying case for the EECS304C MicroVAT™ Elite



EECS306C



EECS304C



EECS306C-2



EECS306C-3



EECS306C-4



EECS306C-CVR



EECS304C-1



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**BATTERY, STARTING AND CHARGING SYSTEM TESTERS**



EECS750A Advanced

**Battery System Testers**

- Select the perfect battery, starting and charging system tester for your shop by comparing features on the table—Basic, Enhanced, Wireless, Advanced or MicroVAT™
- Test autos, trucks, motorcycles, ATVs and more
- Horizontal hand hold position with easy thumb access buttons enhance the user experience
- Superior accuracy with CCA-required input and conductance technology for rendering battery, starter and charging system status
- Available with either a built-in or external printer (EECS150 does not have print capability)



EECS150 Basic



EECS350 Enhanced



EECS550A Wireless





# BATTERY, STARTING AND CHARGING SYSTEM TESTERS

BATTERY SERVICE



EECS150



EECS350



EECS550A



EECS750A



EECS304C

| Specifications                          | EECS150                  | EECS350                                | EECS550A  | EECS750A  | EECS304C   |
|---|--------------------------|--|---|---|--|
| <b>Model</b>                            | Basic                    | Enhanced                               | Wireless  | Advanced  | MicroVAT™  |
| <b>CCA Range</b>                        | 100–1,400                | 100–1,700                              | 100–2,000   | 100–2,000   | 100–2,000  |
| <b>CCA Input</b>                        | •                        | •                                      | •   | Yes   | •  |
| <b>Volts</b>                            | 12                       | 6/8/12                                 | 6/8-12/24 (24 V Truck Packs of 12 V only, no 24 V Aviation Batteries) | 6/8/12/24 (24 V Truck Packs of 12 V only, no 24 V Aviation Batteries) | 6-12/24 (24 V Truck Packs of 12 V only, no 24 V Aviation Batteries)                |
| <b>Rating Systems</b>                   | SAE, EN, IEC             | SAE, EN, IEC, DIN, JIS                 | CCA, CA, SAE, EN, IEC, DIN, JIS                                       | CCA, SAE, EN, IEC, DIN, JIS, MCA                                      | SAE, EN, IEC, DIN, JIS   |
| <b>Battery Type</b>                     | Standard, AGM            | Standard, AGM, EFB                     | Standard, AGM, GEL, EFB   | Flooded, AGM, Gel, ISS EFB  | Standard, AGM  |
| <b>Battery Pack</b>                     | —                        | —                                      | Yes, Series   | Yes, Series/Parallel (1–6)  | Yes, Series  |
| <b>Displays Battery Condition</b>       | •                        | •                                      | •   | Yes   | •  |
| <b>Displays Battery Voltage (SOC)</b>   | •                        | •                                      | •   | Yes   | •  |
| <b>Displays % of CCA</b>                | •                        | •                                      | •   | Yes   | •  |
| <b>Tests Discharged Batteries</b>       | •                        | •                                      | Down to 1 V   | Down to 1 V   | —  |
| <b>Reverse Polarity Protection</b>      | •                        | •                                      | •   | Yes – Protection and Detection  | •  |
| <b>Cable Integrity Technology</b>       | •                        | •                                      | •   | Yes   | •  |
| <b>Displays Battery State of Charge</b> | —                        | •                                      | •   | Yes   | •  |
| <b>Bad Cell Detection</b>               | —                        | •                                      | •   | Yes   | •  |
| <b>Temperature Compensation</b>         | —                        | •                                      | ± 32 °F   | 4 Ranges  | X – IR Temp Measured   |
| <b>Poor Connection Detection</b>        | —                        | •                                      | •   | Yes   | •  |
| <b>Custom Header with Date and Time</b> | —                        | •                                      | •   | Yes   | •  |
| <b>Retention Magnet</b>                 | —                        | •                                      | On Battery Unit   | Hanger  | •  |
| <b>Post/Stud Adaptors</b>               | —                        | •                                      | •   | Yes   | •  |
| <b>Surface Charge Warning</b>           | —                        | •                                      | •   | Yes   | •  |
| <b>Integrated Printer</b>               | —                        | —                                      | —   | Yes   | •  |
| <b>Voice Prompts</b>                    | —                        | —                                      | —   | —   | •  |
| <b>System Test</b>                      | Yes – Voltmeter          | Yes – Starting/Charging/Ripple/Voltage | Yes – 12/24 V/Starting/Charging/Ripple                                | Yes – Menu-Driven Routine with Ripple Detection and Graph             | Yes – Menu-Driven Routine Includes DSP Technology, Advanced Alternator Diagnostics |
| <b>Printer Capable</b>                  | None                     | IR–PC (optional)                       | IR–PC (optional)  | Integrated  | Integrated   |
| <b>Communication</b>                    | —                        | IR                                     | IR, Bluetooth® Between Modules  | IR to PC, USB   | IR, USB  |
| <b>Wireless Controller</b>              | —                        | —                                      | Bluetooth®  | No  | —  |
| <b>Display</b>                          | LCD Backlit (3.1" diag.) | LCD Backlit (3.1" diag.)               | LCD Backlit (3.1" diag.)  | Color 3-1/2" (1/4 VGA)  | Color 3-1/2"   |
| <b>Clamps</b>                           | Small                    | Medium                                 | Medium  | Large   | Large  |
| <b>Cable Length</b>                     | 2' Fixed                 | 4' Fixed                               | 2' Fixed  | 10' Replaceable   | 10' Replaceable  |

## EECS550-CC Carry Case

- Optional carrying case

## EECS-PRINTER Wireless Printer (Blue-Point®)



EECS550-CC



EECS-PRINTER



- Do not short portable booster pack leads against each other
- Avoid contact between liquid and Engine Starters
- Avoid overcharging batteries
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## ENGINE STARTERS



EEJP600



EEJP600v24

### Engine Starters, Lead Acid

#### EEJP600 12 V Lead-Acid Engine Starter+

- 350 cranking amps, 290 cold cranking amps from a high-output sealed AGM battery
- Arc-less connection will not allow operation of clamps connected in reverse polarity
- Digital display indicates internal battery charge percentage and DC voltage, plus vehicle battery voltage when connected
- USB port—5 V DC 2 A to charge phones and other devices
- Override functionality triggers the tech to check the connections and battery condition before cranking if the vehicle battery being worked on is less than 1.5 V DC
- Long reach 60" cables and tough 2-gauge wire
- 4 A built-in charger will not overcharge—to extend the battery life, plug in when not in use
- Separate on/off switch for engine starting versus 12 V port
- Internal battery charges via a 110 V AC from the shop using heavy-duty cord supplied by the shop
- Includes the EEJP600-3 12 V DC to DC Cord
- Optional EEJP600-4A USB Light is available

#### EEJP600v24 12 and 24 V Lead-Acid Engine Starter+

- 700 cranking amps, 580 cold cranking amps from two high-output sealed AGM batteries
- Override functionality triggers the tech to check the connections and battery condition before cranking if the vehicle battery being worked on is less than 1.5 V DC in 12 V mode and less than 16 V in 24 V mode
- Includes the EEJP600-3 12 V DC to DC Cord
- Optional EEJP600-4A USB Light is available

#### EEJP600i-4A LED Flex Lite



EEJP600i-4A

### Engine Starters, Lead Acid

| Specifications   | EEJP600                        | EEJP600v24                            | EEJP12V                                     | EEJP1224   | EEJP4001  |
|--|--------------------------------|---------------------------------------|---|--|---|
| Description  | 12 V Lead-Acid Engine Starter+ | 12 and 24 V Lead-Acid Engine Starter+ | 12 V Lead-Acid Engine Starter (Blue-Point®) | 12 and 24 V Lead-Acid Engine Starter (Blue-Point®) | 12/24 V Lead-Acid Commercial Engine Starter (Blue-Point®) |
| Cranking Amps, 12 V                                      | 350                            | 700                                   | 425   | 850  | (based on batteries user installs)                        |
| Built-In Internal CEC/DOE Charger                        | Yes                            | Yes                                   | Yes   | Yes  | Yes   |
| Charger Rating   | 4 A/110 V AC                   | 4 A/110 V AC                          | 3 A/120 V AC                                | 1.5 A/120 V AC                                     | 7 A (per battery)/120 V AC                                |
| Automatic Smart Charger with Overcharge Protection       | Yes                            | Yes                                   | Yes   | —  | Yes   |
| 12 V DC to DC Cord Included                              | EEJP600-3‡                     | EEJP600-3‡                            | EEJP1224-1                                  | EEJP1224-1   | —   |
| Positive and Negative Cable Length, inches               | 60                             | 60                                    | 68  | 46   | 120   |
| Positive and Negative Cable Gauge, AWG                   | 2                              | 2                                     | 2   | 2  | 1/0   |
| 12 V Auxiliary Outlet                                    | Yes, 8 Amp                     | Yes, 8 Amp                            | Yes, 12 A                                   | Yes, 15 A  | —   |
| Weight, lb (kg)  | 28 (12.7)                      | 44 (19.9)                             | 23 (10.4)                                   | 40 (18.14)   | 77 (35) Without Batteries                                 |
| Reverse Polarity Protection                              | Yes                            | Yes                                   | Yes   | —  | Yes   |
| Digital Display Accuracy                                 | ± 0.3 V DC                     | ± 0.3 V DC                            | ± 0.3 V DC                                  | —  | ± 0.3 V DC  |
| Digital Display Resolution                               | 0.1 V DC                       | 0.1 V DC                              | 0.1 V DC                                    | —  | 0.1 V DC  |
| Volt Reading and % of Charge Toggle for Internal Battery | Digital                        | Digital                               | —   | —  | —   |
| Volt Reading for Vehicle Battery                         | Digital                        | Digital                               | —   | —  | —   |
| USB Port Type  | 5 V DC, 2 A                    | 5 V DC, 2 A                           | 5 V DC, 2.1 A<br>5 V DC, 1.1 A              | —  | —   |
| Field Replaceable Battery                                | EEJP600-501R‡                  | EEJP600-501‡ (x2)‡                    | EEJP600-501R‡                               | EEJP600-501R (x2)‡                                 | (User installs own batteries)                             |
| Error Codes on Display                                   | Yes                            | Yes                                   | Yes   | —  | Yes   |
| Flex Light EEJP600i-4A                                   | Optional                       | Optional                              | Yes, Built-in LED                           | —  | —   |
| Operating Temperature Range, °F (°C)                     | 0–120 (-18–50)                 | 0–120 (-18–50)                        | 0–120 (-18–50)                              | 0–120 (-18–50)                                     | 0–120 (-18–50)  |
| Warranty   | 1 Year                         | 1 Year                                | 1 Year                                      | 1 Year   | 1 Year  |



EEJP12V



EEJP1224



EEJP4001

## Engine Starters, Lead Acid

### EEJP12V 12 V Lead-Acid Engine Starter (Blue-Point®)

- Portable unit provides crank assist to stalled vehicles
- 68" long heavy 2-gauge cables remain flexible in extreme temperatures enabling ideal unit placement during starting
- Dual USB ports (1.1 A and 2.1 A) provide charging power to small electronic devices
- 3 A built-in 110 V AC charger will not over-charge, to extend battery life, plug in when not in use with heavy-duty shop owned cord (not included)
- High-intensity LED light is perfect for dark underhood or night situations
- Clamps have a dual-molded grip and 1,000 A capacity
- 12 V CLA supply to power accessories

### EEJP1224 12 and 24 V Lead-Acid Engine Starter (Blue-Point®)

- Portable unit provides crank assist to stalled vehicles
- Convenient tough connectors to switch between 12 V, 24 V or off (unplugged)
- Analog voltmeter provides charge status of internal batteries
- 1.5 A built-in 110 V AC charger will not overcharge; to extend the battery life, plug in when not in use with the included cord
- Robust 46" #2 AWG welding cable leads
- Built-in charger keeps the (2) AGM batteries charged so they are ready when you need them
- 12 V DC, 15 A continuous outlet to power accessories

### EEJP1224-1 12 V DC to DC Cord (Blue-Point®)

### EEJP1224-2 110 V AC Charge Cord (Blue-Point®)

### EEJP4001 12/24 V Wheeled Heavy-Duty Engine Starter (Blue-Point®)

- Perfect for fleets, auction houses, implement dealerships, agricultural or construction operations and any shop with heavy-duty engine starting needs
- 12/24 V commercial engine starter
- Accommodates (2) user owned and installed batteries\*; up to group 31
- Built-in charging system maintains the installed batteries so they are ready when needed
- Automatic reverse polarity and voltage spike protection
- Timer, remote switch and detachable output cables for safety
- Tough quick connectors to switch between 12 and 24 V output
- 10' engine starter leads enable access to the starting points on vehicles

\*(Note: Truck may have (4) batteries, 1,000+ CCA each; customer purchases (2) batteries with the desired CCA) ASSEMBLY REQUIRED

## ENGINE STARTERS, LI-ION

### Engine Starters, Li-Ion

#### EEJP201MBK‡ 12 V Li-Ion Compact Engine Starter/USB Charger and Light

- Ideal for personal-use emergency jumps yet powerful enough for the shop
- For use on power sport, motorcycle and 4- to 8-cylinder autos
- Safer starting via reverse polarity, thermal runaway and short-circuit protection
- Able to start vehicles below freezing
- On-screen commands guide the user
- Bright LED work light or flashing SOS
- Bright LED work light or flashing SOS
- Charge internal battery with AC from a wall or DC from a vehicle
- Includes safety override for vehicle batteries with less than 1.5 V
- Memory-saver capable with optional OBD-II cable, EEJP200M-4 provides 12 V power to the vehicle saving settings, such as radio, seat position, DTCs keyless entry and more



EEJP201MBK



- Avoid contact between liquid and Engine Starters
- Do not short ending starter leads against each other
- Plastic coating on handle does not protect against electric shock
- Do not use "cheater" bars on handles
- Avoid overcharging batteries
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## BOOSTER CABLES



BC20500A



BC25500PA

### Booster Cables

#### BC20500A 20' Battery Booster Cable Set

- Low-resistance booster cables with heavy-gauge 100% copper strands send the maximum current to the vehicle being jumped
- 500 A clamps have recessed copper jaws and are fully insulated for safer engine starting
- Heavy-duty clamp jaws and spring bite securely onto top or side post batteries
- 20' long, 2-gauge wire remains flexible in the cold and coils for storage

#### BC25500PA Plug-In-Style Booster Cables

- Heavy-duty 25' service/tow truck-mounted battery booster cable set
- Heavy-duty clamp jaws and spring bite securely onto top or side post batteries
- Mounting kit included
- Starts the engine of a stranded vehicle without lifting the service/tow truck hood
- Low-resistance booster cables with heavy-gauge 100% copper strands send the maximum current to the vehicle being jumped
- 500 A clamps have recessed copper jaws and are fully insulated for safer engine starting
- 25' long, 2-gauge wire remains flexible in the cold and coils for storage

## BATTERY SERVICE TOOLS



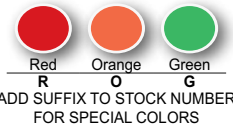
MT302BR

### Remote Start Switch

#### MT302BR † Remote Starter Switch

- 5' leads allow cranking the engine from the sides or beneath the auto while keeping hands away from moving belts and parts
- Switch housing prevents dirt and moisture from affecting the performance
- Switch is rated at 40 A at 12 V or 20 A at 24 V
- Patented Instinct® comfort-designed handle

#### Colors Available



| Specifications        | MT302BR                           |
|-----------------------|-----------------------------------|
| Voltage               | 6, 12 and 24 V                    |
| Cord Color            | Black                             |
| Cord Type             | Straight                          |
| Cord Material         | EDPM                              |
| Cord Length, ft (m)   | 5 (1.5)                           |
| Wire Gauge            | 12                                |
| Switch Amps           | 40 A @ 6 and 12 V;<br>20 A @ 24 V |
| Outside Wire Diameter | 0.2 in (5 mm)                     |
| Handle Type           | Instinct®                         |
| Terminal Clip         | Copper                            |
| Boot Material         | Flexible Composite                |
| Overall Length        | 5' 5" (1.65 m)                    |
| Weight                | 0.82 lb (0.37 kg)                 |



2004BSKA



2005BSKA

### Service Kits

#### 2004BSKA 4 pc Battery Service Kit

- Includes (1) angle nose pliers, (1) side battery terminal cleaner, (1) terminal brush and (1) GM® 5/8" battery terminal ratcheting wrench
- Includes a kit bag

#### 2005BSKA 5 pc Battery Service Kit

- Includes (1) angle nose pliers, (1) side battery terminal cleaner, (1) cable clamp pliers, (1) cable clamp puller and (1) battery terminal cleaner
- Includes a kit bag

#### C0410B Kit Bag

- Fits the 2004BSKA Battery Service Kit



**BTC10**



**BTC3A**



**BTC7B**



**BTC8A**



**BTCR1**



**YA249**



**YA249L**



**YA9484**

## Terminal Tools

### **BTC10 Side Terminal Cleaner (Blue-Point®)**

- Cutters on one side clean battery contacts and a brush cleans the cable contact
- 4-1/2" long

### **BTC3A Terminal Brush (Blue-Point®)**

- Stiff wire bristles thoroughly clean posts and clamps
- 3-3/8" long

### **BTC7B Terminal Cleaner (Blue-Point®)**

- Cleans posts and cable clamps
- Includes a small circular wire brush with a protective cap to clean side terminals
- Plastic body

### **BTC8A Terminal Cleaner (Blue-Point®)**

- Cleans posts and cable clamps
- Plastic body
- 3-1/2" long

### **BTCR1 Battery Crimp Tool**

- Designed to service battery cables while still attached to the vehicle
- Uses a common wrench and ratchet to securely crimp a cable end
- Crimps battery terminal ends up to 0 AWG cable
- Convenient 14 mm, 9/16" hex drive on heat-treated fine thread actuator and a 16 mm, 5/8" hex on the frame to hold it with a wrench while crimping
- Heat treated for durability

#### **BTCR1-1 Main Body**

- Main body for the BTCR1 Battery Crimp Tool

#### **BTCR1-2 Threaded Bolt**

- Threaded bolt for the BTCR1 Battery Crimp Tool

### **YA249 ‡ 5/16" Hex GM® Battery Terminal Ratcheting Box Wrench (Blue-Point®)**

- Designed for use on GM® side terminal batteries
- 5/16" hex, 5-1/2" long

### **YA249L ‡ 5/16" Side Battery Terminal Ratcheting Box Wrench (Blue-Point®)**

- Extra long (9-3/4") for connecting/disconnecting battery side terminals on 1994-later Ford® Aerostar® vans and GM® vehicles including 1994-later Pontiac® Grand AM®, Grand Prix®, W body cars, plus Buick® Regal®, Oldsmobile® Cutlass, Chevrolet® Lumina and Lumina APV
- 5/16" wrench size

### **YA9484 Battery Terminal Crimper (Blue-Point®)**

- Ideal for replacing or repairing battery cable terminal ends
- Design helps prevent overcrimping
- Terminal sizes 6-gauge through 4/0



- Plastic coating on handle does not protect against electric shock
- Do not use "cheater" bars on handles
- Avoid overcharging batteries
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**BATTERY SERVICE TOOLS**



208CCP



B260A



GA486A



CJ92



BT101



BB6A



GA207A



BL1B

**Cable Clamp Tools**

**208CCP Angle Nose Pliers**

- Rounded nose protects the battery from damage
- Jaws are offset 30° for better leverage
- 7-3/4" long

**B260A Cable Clamp Pliers**

- Spreads and cleans cable clamps
- Prybar on one end
- 7-3/8" long

**GA486A ‡ Cable Clamp Puller (Blue-Point®)**

- Removes cable clamps without damaging posts
- 4" long

**CJ92 Cable Clamp Puller**

- Self-locking jaws securely grip the terminal and pull without damage to the post
- 1-3/4" spread

**Hydrometer**

**BT101 Battery Hydrometer (Blue-Point®)**

- Determines specific gravity from 1.100–1.300
- No temperature tables required or difficult float reading to observe
- Design enables both the customer and technician an opportunity to view the state of the battery acid

**Fillers**

**BB6A Filler Bulb (Blue-Point®)**

- 6 oz fluid capacity
- Hard rubber stem features an overflow for dripless filling
- 10-1/2" long

**GA207A Automatic Filler (Blue-Point®)**

- Insert spout into fill hole and press
- Fills battery to correct level without overflow

**Carrier**

**BL1B ‡ Battery Carrier (Blue-Point®)**

- For top post and side terminal batteries
- Rubber pads securely grip battery widths from 5–7"
- Plastic hand grip provides a firm hold

# AIR CONDITIONING

EVEN IF YOU'RE IN A CLIMATE WITH A SHORTER SUMMER, A/C SERVICE STILL REPRESENTS HUGE POTENTIAL. SNAP-ON® A/C RECYCLERS OFFER THE ADVANCED FEATURES, ACCURACY AND SIMPLE OPERATION TO HELP YOU CAPITALIZE ON THE OPPORTUNITY – IN STANDARD, YF AND HYBRID APPLICATIONS.

## TOTALLY COOL.

In addition to meeting all current EPA and SAE standards, our A/C recyclers are designed to reduce your shop's refrigerant usage and protect the ozone. And with everything from vacuum pumps and manifold sets to digital thermometers and leak detectors that can pinpoint the tiniest leaks, we can provide the capabilities to handle every aspect of A/C service.

# AIR CONDITIONING: RECYCLING/RECHARGING SYSTEMS

## Air Conditioning Machine



EEAC330A



EEAC331A



EEAC332A



EEAC333A



EEAC334

| Specifications                                 | EEAC330A                     | EEAC331A                    | EEAC332A                     | EEAC333A                    | EEAC334                      |
|--|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| <b>Description</b>                             | PolarTek® A/C Machine        | PolarTek® Plus A/C Machine  | PolarTek® Hybrid A/C Machine | PolarTek® YF A/C Machine    | PolarTek® Dual A/C Machine   |
| <b>Working Temperature Range</b>               | -10–49 °C (50–120 °F)        | -10–49 °C (50–120 °F)       | -10–49 °C (50–120 °F)        | -10–49 °C (50–120 °F)       | -10–49 °C (50–120 °F)        |
| <b>Compressor</b>                              | 1/3 HP                       | 3/8 HP                      | 3/8 HP                       | 3/8 HP                      | (2) 3/8 CV Hermetic          |
| <b>Vacuum Pump</b>                             | 3 CFM, 2-Stage               | 6 CFM                       | 6 CFM                        | 6 CFM                       | 6 CFM                        |
| <b>Types of Refrigerant</b>                    | R134a                        | R134a                       | R134a                        | R1234YF                     | R134A and R1234YF            |
| <b>Display</b>                                 | Graphic 5"                   | Graphic 7" Touchscreen      | Graphic 7" Touchscreen       | Graphic 7" Touchscreen      | Graphic 10" Touchscreen      |
| <b>Keypad</b>                                  | Standard Membrane (19 keys)  | No                          | No                           | No                          | No                           |
| <b>Command Valves</b>                          | Manual                       | Automatic                   | Automatic                    | Automatic                   | Automatic                    |
| <b>A/C Service Procedure</b>                   | Semi-Automatic or Manual     | Fully Automatic or Manual   | Fully Automatic or Manual    | Fully Automatic or Manual   | Fully Automatic or Manual    |
| <b>Voltage</b>                                 | 120 VAC, 60 Hz               | 120 VAC, 60 Hz              | 120 VAC, 60 Hz               | 120 VAC, 60 Hz              | 115 VAC, 60 Hz               |
| <b>Refrigerant Scale (resolution)</b>          | Yes (10 g)                   | Yes (10 g)                  | Yes (10 g)                   | Yes (10 g)                  | Yes (10 g)                   |
| <b>Oil Scale (resolution)</b>                  | Yes (2 g)                    | Yes (2 g)                   | Yes (2 g)                    | Yes (2 g)                   | Yes (2 g)                    |
| <b>Onboard Oil Injection</b>                   | Automatic                    | Automatic                   | No                           | No                          | No                           |
| <b>Onboard Dye Injection</b>                   | No                           | Automatic                   | No                           | No                          | No                           |
| <b>New Oil Container</b>                       | 8.3 oz (250 ml)              | 8.3 oz (250 ml) Hermetic    | No                           | No                          | No                           |
| <b>Dye Container</b>                           | No                           | 8.3 oz (250 ml) Hermetic    | No                           | No                          | No                           |
| <b>Used Oil Container</b>                      | 8.3 oz (250 ml)              | 8.3 oz (250 ml)             | 8.3 oz (250 ml)              | 8.3 oz (250 ml)             | 16.6 oz (500 ml)             |
| <b>Filter System</b>                           | (1) Humidity Filter          | (1) Humidity Filter         | (1) Humidity Filter          | (1) Humidity Filter         | (2) Humidity Filter          |
| <b>Vacuum Pump Service (easy oil change)</b>   | Yes                          | Yes                         | Yes                          | Yes                         | Yes                          |
| <b>Service Hoses (external working length)</b> | 120"                         | 120"                        | 120"                         | 120"                        | 2 Sets of 120"               |
| <b>Refrigerant Tank Capacity</b>               | 24 lb                        | 24 lb                       | 24 lb                        | 24 lb                       | Two Tanks @ 24 lb Ea         |
| <b>High Pressure Gauge</b>                     | 3.2" (80 mm)<br>580 PSI Cl.1 | 4" (100 mm)<br>580 PSI Cl.1 | 4" (100 mm)<br>580 PSI Cl.1  | 4" (100 mm)<br>580 PSI Cl.1 | 3.5" (89 mm)<br>580 PSI Cl.0 |
| <b>Low Pressure Gauge</b>                      | 3.2" (80 mm)<br>250 PSI Cl.1 | 4" (100 mm)<br>250 PSI Cl.1 | 4" (100 mm)<br>250 PSI Cl.1  | 4" (100 mm)<br>250 PSI Cl.1 | 3.5" (89 mm)<br>250 PSI Cl.0 |
| <b>Thermal Printer</b>                         | No                           | Yes                         | Yes                          | Yes                         | Yes                          |
| <b>Tank Heater</b>                             | Yes                          | Yes                         | Yes                          | Yes                         | Yes                          |
| <b>Status Light</b>                            | No                           | Yes                         | Yes                          | Yes                         | Yes                          |
| <b>Software Update Service</b>                 | Yes (USB key)                | Yes (USB key)               | Yes (USB key)                | Yes (USB key)               | Yes (USB key)                |
| <b>Service Archive</b>                         | Yes                          | Yes                         | Yes                          | Yes                         | Yes                          |
| <b>Vehicle Database</b>                        | Yes                          | Yes                         | Yes                          | Yes                         | Yes                          |
| <b>Hose Flushing Function</b>                  | Not Available                | Not Available               | Yes                          | Yes                         | Yes                          |
| <b>Gas Identifier</b>                          | Not Available                | Not Available               | Not Available                | Yes                         | Yes                          |

TECHNICAL SUPPORT: 1-800-225-5786



**A/C Service Center Accessories**

**EEAC325A1 Filter Dryer**

- Spin-on filter dryer for EEAC324A, EEAC325A, EEAC324B, EEAC325B, EEAC325BH and EEAC326
- Mandatory filter lock-out will occur after filtering 150 lb of refrigerant

**EEAC330-23A Filter Dryer**

- Filter Dryer for all PolarTek® machines

**EEAC325A4 Oil Drain Bottle**

- Oil Drain Bottle for EEAC324B/EEAC325B

**EEAC330CVR Cover for PolarTek® A/C Machines**

- Protects machines from dust, moisture, and overall shop environment
- Form-fitted with small hook-and-loop rear opening for easy on-and-off
- Polyester
- For EEAC330, EEAC330A, EEAC331, EEAC331A, EEAC332, EEAC332A, EEAC333 and EEAC333A machines

**EEAC334CVR Cover for PolarTek® Dual A/C Machine**

- Protects machine from dust, moisture and overall shop environment
- Form-fitted with small hook-and-loop rear opening for easy on-and-off
- Polyester
- For EEAC334 machine

**ACTFILTERPL Sealant and Dye Filter (Blue-Point®)**

- Filters and separates A/C sealants, dyes, debris, lubricants and other contaminants
- Damage results from Type I sealants or Type II entering A/C service equipment from a vehicle during servicing
- ACTFILTERPL is not required or recommended for SAE® J2788 certified EEAC324A/EEAC325A and EEAC324B/EEAC325B recyclers
- Works with all R134a A/C service centers
- Traps lubricant, dye and oil sludge
- Permits consistent flow, even after trapping a large volume of contaminants

**ACTFILTER1 Replacement Filter Kit (Blue-Point®)**

- Replacement filter for ACTFILTERPL

**SS3294 A/C Merchandising Shop Banner**

- Durable, weather-resistant plastic
- Measures 82 x 34"
- Includes 60" ropes at corners
- 2 x 8' reinforced vinyl banner with eyelets for mounting

**Oil Change Kits**

**ACT71-0A Vacuum Pump Oil (Blue-Point®)**

- 32 oz bottle

**EAK0029C01AB Compressor Oil Change Kit**

- Use on EEAC310A, EEAC313A, EEAC316A, EEAC318A, EEAC324A/EEAC324B and EEAC325A/EEAC325B
- Includes two quarts of oil, parts and instructions

**Master Dryer Kit**

**EAK0030C01AB Master Dryer Kit**

- Filter/dryer kit is used on virtually all A/C service units, such as early R12 models and later R134a models
- Use with EEAC301B, EEAC304D, EEAC313A (R12 side), EEAC316A, EEAC318A, EEAC319A, EEAC320A
- Filter/dryer should be changed regularly depending on unit usage
- Includes filter and instructions

**Filter Dryers**

**EAK0030C02AB Master Dryer Kit**

- Use on EEAC313A (R134a side)

**EAK0095C01AB Filter Dryer**

- Use on EEAC307C, EEAC308C and EEAC310A (R12 side)

**EAK0095C02AB Filter Dryer**

- Use on EEAC313A (R134a side)

**EEAC326-1 Identifier Filter**

- Use on EEAC326



EEAC325A1



EEAC330-23A



EEAC330CVR



ACTFILTERPL



ACTFILTER1



SS3294



ACT71-0A



EAK0029C01AB



EAK0030C01AB



- Wear safety shield (user and bystander)
- Read safety precautions on pages W1 to W4

## AIR CONDITIONING: SERVICE EQUIPMENT



ACT825



ACT900



ACT785B

### Heated Sensor Leak Detectors

| Specifications                          | ACT825‡  | ACT900   | ACT785B†   |
|---|--|--|--|
| <b>Sensitivity Range</b>                | ≤0.05 oz/yr (1.5 g/yr);<br>≤0.25 oz/yr (7 g/yr); ≤0.50 oz/yr (14 g/yr) | .05 oz/yr (R134a);<br>.015 oz/yr (R134yf); .03 oz/yr (R22) | .05 oz/yr (R134a);<br>.015 oz/yr (R134yf); .03 oz/yr (R22) |
| <b>UV Mode</b>                          | True   | (3) UV LEDs  | —  |
| <b>UV Wave Length</b>                   | 390–400 nm   | 395–415 nm   | —  |
| <b>Inspection Light Mode</b>            | —  | White LED Lights   | —  |
| <b>Sensing Tip Life</b>                 | 2,000 Hours  | >500 Hours   | >500 Hours   |
| <b>Power Supply</b>                     | (2) D Batteries  | (4) AA Batteries (Alkaline)                                | (4) AA Batteries (Alkaline)                                |
| <b>Battery Life</b>                     | 60 Hours Continuous  | 8 Hours Continuous   | 8 Hours Continuous   |
| <b>Warm-Up Time</b>                     | <60 Seconds  | <20 Seconds  | <20 Seconds  |
| <b>Automatic and Manual Calibration</b> | Yes  | Yes  | Yes  |
| <b>Probe Length</b>                     | 16"  | 17"  | 17"  |
| <b>Warranty</b>                         | 3 Years (Leak Detector Only);<br>1 Year (Mini UV Flashlight)           | 3 Years (2 Years on Sensor)                                | 3 Years (2 Years on Sensor)                                |
| <b>Display</b>                          | LCD  | Color Graphic LCD  | Seven Segment Digital (1–9)                                |
| <b>Alarm Near Sensor</b>                | Unit Will Alarm  | Visual LED at Tip  | Visual LED at Tip  |
| <b>Carrying Case</b>                    | Included   | Included   | Included   |

† C E

#### ACT825‡ Refrigerant Gas Heated Sensor Leak Detector

- SAE® certified electronic leak detector with color LCD display
- Displays the relative magnitude of leaks detected
- Displays unit readiness: wait, ready or interference
- Low, medium and high sensitivity with visual indication
- Displays the selected mode: peak, hold or mute
- Displays accumulated sensors hours on request with a low battery indicator
- Large color LCD display
- Flexible 15.5" probe
- Meets/exceeds SAE® J2791 (R134a) and SAE® J2913 (R1234yf) certifications
- Highly sensitive sensor detects extremely low levels of chlorofluorocarbon gases

#### ACT900 Refrigerant Leak Detector

- Patented 3-LED UV lighting; 395–415 Nm wavelength for optimum air-conditioning dye fluorescence
- Sweep mode function to pinpoint leak source
- Unique color LCD display with graphics and messages
- Automatic/manual calibration and reset to ambient levels
- Mute handle with vibrator
- Low battery indicator
- SAE® J2791 (R134a) and SAE® J2913\* certified
- Three adjustable sensitivity levels
- 2 year warranty

#### ACT785B Digital Heated Sensor Leak Detector

- Unique digital alarm with numeric leak size indicator
- Long life, stable sensor
- Automatic calibration is useful in heavily contaminated areas—the unit automatically recalibrates (re-zeroes) to ambient levels, which stops the constant alarm, only responding to higher levels of refrigerant; this allows the unit to search for the true source of the leak
- Manual calibration—useful for smaller leaks; this also allows for recalibration to ambient levels, but only when the user chooses to do so (user may want the calibration to remain constant while searching for small leaks)
- Three adjustable sensitivity levels
- True mechanical pump
- Features low battery indicator and mute
- SAE® J2791 (R134a) and SAE® J2913 (HFO-1234yf) certified, EN14624 certified
- Garage tough
- Visual LED leak alarm near the sensor (with numeric leak size indicator)
- Inspection light utilizes bright 6,000 MCD LEDs
- Includes carry case



ACT790A



ACTLD700

## Combustible Gas Detectors

| Specifications                   | ACT790A                          | ACTLD700†                          |
|----------------------------------|----------------------------------|------------------------------------|
| Sensitivity Range                | 5 ppm (Methane); 5 ppm (Propane) | .07 oz/yr (R134a), .04 oz/yr (R22) |
| UV Mode                          | —                                | —                                  |
| UV Wave Length                   | —                                | —                                  |
| Inspection Light Mode            | —                                | —                                  |
| Sensing Tip Life                 | >300 Hours                       | >200                               |
| Power Supply                     | (4) AA Batteries (Alkaline)      | —                                  |
| Battery Life                     | 8 Hours Continuous               | 6                                  |
| Warm-Up Time                     | <10 Seconds                      | 25 Seconds                         |
| Automatic and Manual Calibration | —                                | No                                 |
| Probe Length                     | 17"                              | 15-1/2"                            |
| Warranty                         | 3 Years (2 Years on Sensor)      | 1 Year                             |
| Display                          | Seven Segment Digital (1–9)      | —                                  |
| Alarm Near Sensor                | —                                | —                                  |
| Carrying Case                    | Included                         | Included                           |

† C E

### ACT790A Combustible Gas Detector

- Finds leaks in fuel and exhaust systems, plus verifies the integrity of fuel storage containers
- Detectable compounds include acetylene, iso-butane (R600a), methane, ethane (R170), propane (R290), hydrogen, acetone, methanol and gasoline
- 17" probe
- Uses (4) AA alkaline batteries
- Conforms with SAE® J1627 and is designed to conform with SAE® J2791
- Features audio mute function, automatic calibration, three levels of sensitivity and a long life sensor
- Numeric leak size indicator
- 10-3/8" body length
- Comfortable neoprene grip
- Intrinsic safety certified
- Flashing probe LED visual leak indicator
- Includes high-impact injection-molded instrument case
- Two-year warranty on the detector, two-year warranty on the sensor

### ACTLD700‡ Compact Leak Detector (Blue-Point®)

- Extremely sensitive to low levels of chlorofluorocarbon gases commonly found in the automotive industry including acetone, acetylene, ammonia, benzene, butane, butanol, chlorine, ethane, ethanol, gasoline, hexane, hydrogen, hydrogen sulfide, isobutene, methane, methanol, methyl acetate, methyl chloride, methyl ether, naphtha, n-butane, pentane, propane, propanol, sulfur dioxide and trichloroethane
- Detects all refrigerants: HFC, CFC, HCFC and blends
- Multiple sensitivity settings, more sensitive to leaks and extended life sensor lasts over 2,000 hours of use
- Detects the best operating condition for the sensor and automatically calibrates
- Includes true UV light and case

- (6) multicolor vertical LEDs display the following information to the user: relative signal level of the detected leak, selected sensitivity range of the unit (low/medium or high) and diagnostic information (such as low battery, interference/wait, contaminated atmosphere or fault conditions of the unit)
- Keypad controls include an on/off, volume/mute, sensitivity (select between High/Medium/Low), and peak (when multiple leaks are suspected)
- SAE® J2791, SAE® J2913 and EN24624 certified

### ACT7851 Sensor with Filter

- Sensor with filter for the ACT785 Leak Detector

### ACT7852 Filter Kit

- Filter kit for ACT785

### ACT7853 Test Vial

- Test vial for ACT785

### ACT7854 Storage Case

- Cushioned storage case for ACT785



- Wear safety shield (user and bystander)
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR CONDITIONING: SERVICE EQUIPMENT



ACT120A

### Electronic Refrigerant Scale

| Specifications                    | ACT120A ‡  |
|-----------------------------------|--|
| Capacity, lb (kg)                 | ±.16 oz (±0.01 kg) or 0.1% of Reading (whichever is greater) |
| Accuracy                          | 0.01 lb (0.01 kg)  |
| Resolution                        | 32–120 °F (0–49 °C)  |
| Operating Temperature             | 9" (228.6 mm) Square   |
| Platform                          | 9 V Battery (included)                                       |
| Power Supply                      | 40   |
| Battery Life (Approximate), Hours | 40   |

#### ACT120A ‡ Portable Electronic Refrigerant Scale (Blue-Point®)

- For use with R12, R134a or R1234yf refrigerants
- Reads transfer amount during charging or recovery operations
- Reads in pounds or kilograms
- Auto off function after three hours



ACTUVPROKT

### Metered UV Injection Kit and Accessories

#### ACTUVPROKT Metered UV Injection Kit

- New technology dye injection solution
- One precise squeeze of the trigger per application
- More accurate than caulk-style guns
- Includes a high-capacity 12 oz cartridge that covers 96 applications

#### ACTUVPRO12 Dye Cartridge (12 oz)

- 12 oz dye cartridge for ACTUVPROKT
- Replacement 12 oz cartridge with 96 applications for use with ACTUVPROKT
- Universal dye is safe for all A/C systems, SAE® certified and OEM approved

#### ACTUVPRO Injection Gun

- Replacement Injection gun for a ACTUVPROKT metered UV injection kit



ACTUVGUNB



ACTUVGUNB8



ACTUVKITD

### Ultraviolet Leak Detector Kits

- Inject the dye in low side port on an automotive A/C system, circulate and check for leaks with the UV mini light
- Detects leaks as slow as 1/4 oz per year
- Uses optional dyes to check for leaks in engines, transmissions, hydraulic systems and power steering systems

#### ACTUVGUNB Injection Gun Kit

- Includes (1) 8 oz dye cartridge, and Injector
- #### ACTUVGUNB8 Universal Dye Cartridge (8 oz)
- 8 oz universal dye cartridge services up to 64 applications
  - SAE® J2297 certified and OEM approved dye
  - Service stickers included

#### ACTUVKITD R12/R134a UV Leak Detection Kit

- Includes (1) 8 oz dye cartridge, (1) R12 Injection Gun Adaptor, (1) R134a Injection Gun Adaptor, (1) pair of UV enhancing glasses, (1) injector and (1) rechargeable true UV light



ACTUVMINI4



ACTUVINJKTA



ACTUVDYE8

## Ultraviolet Leak Detector Kits (LED Lite)

### ACTUVMINI4 ‡ Mini LED UV Flex Light and UV Goggles Kit (Blue-Point®)

- Bright LED light with a 12" flexible probe gets into tight spots
- Comfort grip light handle has a convenient on/off button
- Includes a flex light and UV safety glasses

### ACTUVINJKTA A/C Leak Detection Kit

- Detects A/C refrigerant leaks quickly and easily
- Universal A/C dye is SAE® certified and OEM approved
- Includes Universal A/C dye to service up to 40 vehicles (ACTUVKITRHT for refills), exclusive gun-style injector and dye cartridge, powerful 1 W Luxeon® light (compatible with fluorescent dye), UV glasses, a convenient storage case, an R134a adaptor and service stickers

### ACTUVKITRHTA Dye Cartridge

- Four 1 oz cartridges for use with ACTUVINJKTA
- Services up to 40 vehicles

### ACTUVC10 Dye Cartridge with Service Labels

- 10-application dye cartridge with (10) A/C service labels

### ACTUVGUN100 Compact Injection Gun (Blue-Point®)

- Compact injection gun used in ACTUVKITJRA

### ACTUVDYE8 Universal Dye

- 8 oz bottle with a precise measuring chamber

## Ultraviolet Leak Detector Dye Cartridges/Accessories

| Stock No.   | Description  |
|-------------|--|
| ACTUVGUN2   | Universal A/C Dye Cartridge (4 oz)   |
| ACTUVKITJR1 | A/C Dye Cartridges (6) 1/4 oz  |
| ACTUVKITJR2 | A/C Dye Cartridges (6) 1 oz  |
| YAUV4N1     | Engine/Transmission/Hydraulic/Power Steering Accessory Dye Cartridges (6) 1 oz |
| ACTUVGUN3   | Injection Gun  |
| ACTUVGUN5   | R134a Injection Gun Adaptor  |

| Stock No.    | Description                                    |
|--------------|--|
| ACTUVGUNA9   | R12 System Injection Gun Adaptor (Blue-Point®) |
| ACTUVKITJR3  | Applicator Hose (Blue-Point®)                  |
| ACTUVLITE4   | UV Safety Glasses (Blue-Point®)                |
| ACTUVLITE6   | Replacement Bulb                               |
| ACTUVLITEA9  | Storage Case                                   |
| ACTUVLITEA10 | Replacement Lens                               |

## Universal A/C Dye

### ACTR53625 Universally Compatible A/C Dye

- Universal dye for automotive and HVAC A/C systems
- Cost-efficient, concentrated dye is SAE® J2297 approved
- 25 applications per 2 oz bottle; 1/12 oz per application
- For automotive use, one application equals 1/12 oz (2.5 ml), per 10 oz (300 ml) of oil
- For HVAC use, one application equals 1/12 oz (2.5 ml) per 7 lb (3.2 kg) of refrigerant
- Dye may be injected using any standard dye/oil injector, including the recommended Snap-on® ACT53134A injector
- Compatible with all oils
- After injecting the dye into an automotive or HVAC A/C system and allowing it to circulate, throughout system—then use a UV light to locate the leak



ACTR53625

## Ultraviolet Flashlight

### CTLUV761 14.4 V MicroLithium UV Cordless Work Light

- Detect leaks with this 14.4 V MicroLithium cordless UV Work Light
- Compatible with standard leak detection dyes
- Inspection range of 8' or more
- More than 10 hours of run-time
- Tempered-glass lens
- Resists automotive fluids
- Low battery indicator (10 minutes)
- Works great with ACTR53625 universal dye
- Includes fluorescence-enhancing glasses



CTLUV761



- Wear safety shield (user and bystander)
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR CONDITIONING: SERVICE EQUIPMENT



ACT92707

### Hybrid A/C Compressor Oil

#### ACT92707 Synthetic Hybrid A/C Compressor Oil

- High dielectric nonconductive formula provides advanced hybrid A/C compressor protection
- Formulated for vehicles with electric A/C compressors
- Provides outstanding lubricity and compressor protection
- Contains conditioners, inhibitors and anti-wear agents
- Used to recharge or top off the oil charge of electric A/C compressors



ECFUV17

### Flashlights

#### ECFUV17 17-LED True UV Flashlight Kit (Blue-Point®)

- (17) true UV LED bulbs provide impressive illumination
- Aluminum body with textured grip for durability and ease of use
- 25,000 hour bulb life for excellent reliability
- Uses (3) AAA alkaline batteries
- On/off switch is located on the handle
- Amber UV safety glasses also included
- 380–385 Nm UV wavelength
- 22-hour run time under normal work conditions



ECFUVLEDA

#### ECFUVLEDA True UV Rechargeable Flashlight Kit (Blue-Point®)

- 400 Nm wavelength—the sweet spot for A/C, oil and coolant dye leak detection
- 95-minute run time at constant power output
- Plug-in charger and UV-enhancing glasses are included
- Focusing lens enables broad and narrow searches
- Lithium ion battery
- Compact aluminum housing
- On/off switch is located on the handle

### Accessories

#### ECSPA004-UV UV Penlight

- Offers the full spectrum of UV leak detection—both 400 Nm (purple) and 450 Nm (blue) in one light
- Independent switching provides quick, straightforward access to the mode of choice (400 Nm versus 450 Nm)
- Magnets on both the pocket clip and the base
- Five-plus-hour run time using standard alkaline batteries
- Rugged ABS material insures durability and long life
- Uses (3) AAA batteries (included)



ECSPA004-UV

### Ultraviolet Safety Glasses

#### GLASSUV1 UV Safety Glasses

- Adjustable temple length and lens inclination provide a customizable fit
- Meets or exceeds ANSI® Z87.1 2015 standard
- CE EN166 certified



GLASSUV1

### AC Service Kit

#### ACT91339 O-Ring Service Kit (Blue-Point®)

- Complete O-ring assortment for use on R134a and R12 A/C systems
- Includes 18 common O-ring sizes (270 total)



ACT91339



ACTR5150A

## Digital Manifold Gauges (R134a) ACTR5150A ‡ Digital Manifold Gauge Set (R134a) (Blue-Point®)

- Displays refrigerant and oil capacities
- Large easy-to-read LCD screen displays pressure and vacuum readings for R134a
- High-quality aluminum block manifold
- Performs system leak check at the conclusion of the evacuation process
- Heavy-duty hook folds and stores on the back
- Rubber boot for added protection
- Includes digital manifold, (3) 72" hoses and (2) manual couplers in a storage case



ACTR4131A

## Manifold Test Gauges (R134a) ACTR4131A ‡ A/C Manifold Gauge Set

- Anti-flutter gauges smooth-out needle movement
- Easy-grip all-metal side-mounted knobs
- Piston-type free-floating valves reduce O-ring wear
- Manual R134a couplers
- 60" red, blue and yellow inner nylon layer hoses meet EPA, SAE® and UL® standards
- Yellow hose includes shut-off valve



ACTR4151A

## ACTR4151A ‡ Manifold Gauge Set

- Manual couplers are spring loaded to eliminate service valve damage
- Extruded aluminum body with solid brass fittings
- High- and low-side silicon anti-flutter gauges (65 mm) reduce vibration
- Sight glass permits visual monitoring of refrigerant flow
- 96" yellow charging hose, plus 72" red and blue hoses



ACTR5134A

## ACTR5134A ‡ Premium Manifold Gauge Set

- Extra-large
- 80 mm gauge face and oversized sight glass for better visibility
- Large 1/4 turn open/close manifold ball valves
- Manual high and low couplers for quick connections
- 72" red and blue nylon barrier hoses meet EPA, SAE® and UL® standards
- 96" yellow charging hose



ACTR4772-2

## ACTR4772-2 ‡ Low-Side Quick Coupler



ACTR4772-3

## ACTR4772-3 ‡ High-Side Quick Coupler



ACTR9600

## Heavy-Duty Manifold Test Gauges ACTR9600 ‡ Heavy-Duty Truck/Bus Manifold Gauge Set

- Heavy-duty A/C manifold for large trucks, buses and reefer applications
- Larger profile aluminum block versus smaller import blocks on competitive units
- Heavy-duty conversion couplers for durability
- Couplers are spring-loaded to prevent damage to valve cores
- Silicon-dampened gauges for durability
- Extra-long 96" Goodyear® hoses for added reach; (1) each in red, blue and yellow



ACT51234A

## Manifold Test Gauges (R134a/R12) ACT51234A ‡ Dual Refrigerant Manifold Test Gauge (R12/R134a)

- Three sets of hoses (72" red and blue, plus 96" yellow) permit true interchange between R12 and R134a refrigerants
- Large 1/4 turn positive open/close manifold ball valves
- Oversized sight glass for easy-flow viewing
- Extra-large 80 mm gauge face for better visibility
- Manual high and low couplers for quick connections
- Nylon barrier hoses meet EPA®, SAE® and UL® standards
- Extra access port for a vacuum line



ACTR1234YF

## ACTR1234YF ‡ 1234YF Manifold Gauge Set

- For vehicles using new 1234yf refrigerant
- Red and blue nylon barrier hoses with 12 mm male fittings on both ends
- R1234yf high- and low-side couplers

## ACTR1234YF1 ‡ 1234YF High-Side Coupler

- For vehicles using new 1234yf refrigerant

## ACTR1234YF2 ‡ 1234YF Low-Side Coupler

- For vehicles using new 1234yf refrigerant



- Wear safety shield (user and bystander)
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR CONDITIONING: SERVICE EQUIPMENT



**ACTRB72**



**ACTRY96**



**ACTB72**

### Replacement Hoses (R134a)

- Low permeation hoses for internal equipment connections
- 1/2" ACME® fittings
- Hoses comply with SAE® J2197

#### **ACTRB72 † R134a Replacement Hose**

- Blue, 6' length

#### **ACTRB96 † Replacement Hose**

- Blue, 8' Length

#### **ACTRR72 † R134a Replacement Hose**

- Red, 6' length

#### **ACTRR96 † Replacement Hose**

- Red, 8' length

#### **ACTRY72 † R134a Replacement Hose**

- Yellow, 6' length

#### **ACTRY96 † Replacement Hose**

- Yellow, 8' length



**ACTB72A**



**ACTY72A**



**ACTR72A**



**ACTY72**



**ACTY96**

### Replacement Hoses (R12)

#### **ACTB72 † Replacement Hose (R12)**

- Blue, 6' length
- 1/4 turn manual shut-off valve

#### **ACTB72A † Replacement Hose (R12)**

- Blue, 6' length
- Automatic shut-off valve

#### **ACTR72A † Replacement Hose (R12)**

- Red, 6'
- Automatic shut-off valve

#### **ACTY72 † Replacement Hose (R12)**

- Yellow, 6' length
- 1/4 turn manual shut-off valve

#### **ACTY72A † Replacement Hose (R12)**

- Yellow, 6' length
- Automatic shut-off valve

#### **ACTY96 † Replacement Hose (R12)**

- Yellow, 6' length
- 1/4-turn manual shutoff valve



## A/C Hose Crimping Tools

| Stock No. | Description             | Fitting Size | Hose Size | Set Contains: |             |
|-----------|-------------------------|--------------|-----------|---------------|-------------|
|           |                         |              |           | ACT2100‡      | ACTMAN2100‡ |
| ACT21001‡ | Crimping Tool           | —            | —         | •             | •           |
| ACT21003‡ | Standard Die Set        | #8           | 13/32"    | •             | •           |
| ACT21005‡ | Standard Die Set        | #12          | 5/8"      | •             | •           |
| ACT21006‡ | Reduced Barrier Die Set | #6           | 5/16"     | •             | •           |
| ACT21007‡ | Reduced Barrier Die Set | #10          | 1/2"      | •             | •           |
| ACT21008  | Reduced Barrier Die Set | #12          | 5/8"      | •             | •           |



ACT2100



ACTMAN2100

### ACT2100 ‡ Hydraulic A/C Hose Crimper Set

- Recrimps or installs most barbed and beaded fittings
- Allows the user to create standard or custom length A/C hoses
- Set contains the hand-operated hydraulic crimping tool (ACT21001), (4) sets of dies for standard fittings and (4) sets of dies for reduced-barrier fittings

### ACTMAN2100 ‡ Manual A/C Hose Crimper Set (Blue-Point®)

- Manual version of the ACT2100 Hydraulic Hose Crimper
- Easily mounts to a workbench or held securely in a vise
- Includes a complete set of dies covering standard #6, #8, #10 and #12 hose sizes



ACT28B



ACT9005



ACT9103



ACT9106



ACT9006

## Vacuum Pumps (R12)

| Stock No. | Description                     | Free Air Displacement | Shipping Weight, lb | Ultimate Vacuum |
|-----------|---------------------------------|-----------------------|---------------------|-----------------|
| ACT28B‡   | Vacuum Pump (R12) (Blue-Point®) | Air Operated          | 5                   | 28 in Hg        |

| Stock No. | No. of Stages | Free Air Displacement | Ultimate Vacuum | Motor  | Pump Speed | Electrical Specs    | Shipping Weight, lb |
|-----------|---------------|-----------------------|-----------------|--------|------------|---------------------|---------------------|
| ACT9005‡  | 1             | 1.5 CFM               | 75 Microns      | 1/6 HP | 3,450 RPM  | 110 V, 60 Hz        | 16                  |
| ACT9103‡  | 1             | 3 CFM                 | 75 Microns      | 1/4 HP | 1,720 RPM  | 110 V, 60 Hz        | 17                  |
| ACT9106‡  | 1             | 6 CFM                 | 75 Microns      | 1/4 HP | 1,720 RPM  | 110 V, 60 Hz        | 22                  |
| ACT9006‡  | 2             | 6 CFM                 | 15 Microns      | 1/3 HP | 3,440 RPM  | 110/220 V, 50/60 Hz | 24.6                |

### ACT9005 ‡ 1.5 CFM Deep Rotary Vane Single-Stage Vacuum Pump (Blue-Point®)

- High-efficiency, single-stage 1.5 CFM pump
- Ultimate vacuum of 100 microns
- Three inlet port sizes: 1/4, 3/8 SAE® and 1/2" ACME
- Gas ballast valve helps prevent oil contamination
- Easy-access oil fill port
- 1/6 HP
- 120 V AC motor
- Weight: 16 lb
- Oil capacity: 6 oz

### ACT9006 ‡ 6.0 CFM Deep Rotary Vane 2-Stage Vacuum Pump (Blue-Point®)

- High-efficiency, two-stage 6 CFM pump
- Ultimate vacuum is 25 microns
- Three inlet port sizes: 1/4, 3/8 SAE® and 1/2" ACME
- Easy-access oil fill port
- 1/3 HP
- 120 V AC motor
- Weight: 38 lb
- Oil capacity: 8 oz



- Wear safety shield (user and bystander)
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## AIR CONDITIONING: SERVICE EQUIPMENT (R134A, R12, R1234YF)



ACT1297



ACT1298



ACT2105

### Valve Core Tools

#### ACT1297 ‡ Master Valve Core Tool Set (R134a/R12)

- High side GM®/Ford® R12 adaptor (1/4 x 3/16")
- High side Ford® R12 adaptor (1/4 x 1/8")
- GM® large bore valve core remover/installer assembly
- JRA R134a valve core remover/installer assembly
- Eton R134a low side valve core remover/installer assembly
- Eton R134a high side valve core remover/installer assembly. Valve assembly enables changes under pressure
- R134a high side connector (16 mm)
- R134a low side connector (13 mm)—1/4" FL swivel connector
- Plastic box for set component storage

#### ACT2105 ‡ Orifice Tube Service Kit

- Installs and removes any style orifice tube
- Removes broken screens and tubes
- Includes an auger point shaft puller, for GM® vehicles, brass extension, puller, remover arbor, remover nut and a storage case

#### ACT1298 1234yf Remover/Installer Kit

- Valve core remover/installer for R1234yf vehicles
- Removes valve cores with no refrigerant loss
- Ball valve construction for years of reliable service
- 17 and 14 mm high- and low-service couplers
- Covers all 1234yf valve cores



ACT413A

### Can Tapper Valve

#### ACT413A ‡ Side Mount Can Tap Valve

- Fits R134a (2 7/8"), R12 (2-1/2") and oil (2") US standard charge cans
- Includes 1/2" ACME-M and 1/4" FL-M ports
- Internal safety check valve prevents system backflow
- Composite construction with brass ports
- Includes an insert for smaller cans
- Locking handle provides constant pressure



ACT1300B

### Seal and Clutch Service

#### ACT1300B ‡ A/C Clutch Remover Set

- Simplifies removal/installation of A/C compressor clutch and clutch plates
- Provides access to shaft seals
- For use with Ford®, Chrysler® and GM® vehicle A/C compressors
- Includes an adjustable spanner wrench

## AIR CONDITIONING: SERVICE EQUIPMENT (R134A, R12, R1234YF)



ACTR82375

### Oil and Dye Injectors

#### ACTR82375 ‡ 2 oz Oil Injector (R134a only)

- Used to add refrigerant oil or large amounts of UV leak-detection dyes to A/C systems
- Quickly adapts to manifold gauge sets or charging equipment
- 1/2" ACME male x 13 mm R134a low side female threads
- 2 oz capacity
- For R134a use only



ACT53134A

#### ACT53134A ‡ Oil Injector (Blue-Point®)

- Great for use on standard and hybrid R134a systems
- Any dye/oil can be put into the AC53134A and injected into the system
- Dye/oil can be injected while the system is under a vacuum, or against the pressure while the system is full and running
- Heavy-duty anodized aluminum construction for years of reliable use
- Injection measurements are 1/10 oz for concentrated dye, 1/4 oz for standard dye and ml



ACT53135

#### ACT53135 ‡ R1234yf Refill Dye/Oil Injector (Blue-Point®)

- Refillable oil/dye injector for R1234yf vehicles
- Heavy-duty aluminum construction for years of reliable performance
- Complete with a R1234yf low side coupler
- Easy twist-style injector for accurate measurements



## Thermometers

### TEMP2A Digital Thermometer (Blue-Point®)

- Use on A/C systems, cooling systems and other applications
- Reads temperature of liquids, solids and gases
- Easy to read display in °F and °C
- Temperature ranges: -58–300 °F (-50–150 °C)
- Resolution: ±0.1 °F (±0.1 °C)
- Accuracy: ±2.0 °F (± 1.0 °C)
- Response time: updates every 1.5 seconds
- Battery: MTACDC1-1 with 35-minute auto power off
- Probe length: 3-1/2" (89 mm)
- Overall length: 7" (178 mm) with case
- Includes tip cover and magnetic back for easy storage

### TEMP10 Pocket Digital Thermometer (Blue-Point®)

- Measures liquid, air and surface temperatures via a sturdy stainless steel probe
- Digital display for easy viewing
- Angled viewing head can be rotated 180°
- Convertible from Fahrenheit (F) to Centigrade (C)
- Temperature ranges: -58–300 °F (-50–150 °C)
- Plastic carrying sheath

### TEMP200 Digital Dual Thermometer

- Provides the ability to measure temperature at two different locations, provides a differential value and expedites the tuning of HVAC systems
- 10' cable provides the ability to support larger vehicles, multi-vented SUVs and other similar applications
- Large easy-to-read LCD provides quick and accurate usage of the tool
- Strong clip on the back of the housing provides the ability to quickly attach the main unit to most venting systems
- Handy magnetic tip on the external sensor provides the ability for hands-free operation and measurement
- Large magnet on the back of the clip provides the unit a more versatile attachment method within engine compartments and other ferrous locations
- Temperature range: 50–400 °F
- Accuracy: ±1

### TEMP100 Multi-Functional Thermometer

- Temperature range of -58–400 °F covers extremes for a multitude of applications
- Overall length enables maximum reach of 6-15/64"
- Magnet on the end of the protective sleeve can be used as a pickup tool

- Reads in Fahrenheit (F) or Celsius (C)
- Can be calibrated in the field
- Snap-on® Instinct® handle
- Narrow tip steel shaft provides quicker readings than thicker shaft units
- Easy-to-read LCD display
- Data hold button holds readings especially in hard-to-see areas
- Handy pocket clip for easy access of the tool at all times
- Auto power off (35 minutes)
- Dual magnets on the pocket clip to mount to ferrous surfaces, such as a tool storage unit
- Slots in the pocket protector result in quick air temperature readings
- Verifies A/C and heating system temperatures to ensure proper functioning
- Checks vent temperatures to ensure proper system air flow to each vent

### ACT73A Dual Scale Dial Type Thermometer (Blue-Point®)

- Range 0–220 °F in 2° increments
- Checks temperature of condenser, outside air and cooling power
- 1-3/4" dia

### ACT83A Pocket Dial Type Thermometer (Blue-Point®)

- Temperature range 0–220 °F in 2° increments
- Immerse stem about 2" in liquids, 4" in gases
- 1" dia



- Wear safety shield (user and bystander)
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- Read safety precautions on pages W1 to W4

## AIR CONDITIONING: SERVICE TOOLS



ACT106B



ACT1008A



ACT1009A

### Adaptors/Valves/Connectors

#### ACT106B ‡ Expansion Tube Remover

- For most GM® vehicle models
- 4" long

#### ACT1008A ‡ Orifice Tube Tool

- Services A/C systems
- 6-1/4" long

#### ACT1009A Orifice Tube Remover

- Used as a CCOT and FFOT screen extractor
- For use in conjunction with ACT106B



ACT1046C



ACT111B



TR108



TR109



ACT1290A



ACT81290



R404



RF818SC



ACT499A



TLE80A



ACT407



GOGGLE1



ACT1370

### Service Tools

#### ACT1046C ‡ Blue-Point® Flush Kit

- Pressure flush condensers, evaporators and refrigerant lines after A/C system is completely discharged
- Designed to work with any lightweight flushing material that can be mixed with pressurized air
- Includes flush gun, hose, canister and canister adaptor

#### ACT111B ‡ Compressor Oil Injector Adaptor

- Aluminum body holds up to 2 oz of oil
- Uses pressure differential of the high and low side of A/C system

#### TR108 Tire Valve Core Tool

- Designed to install and remove standard tire valve cores
- Larger screwdriver-style handle
- Comfortable, durable acetate handle
- 4-3/4" long

#### TR109 Valve Core Tool

- Used to remove or replace valve cores on A/C systems (large bore)
- 6-3/4" long

#### ACT1290A Universal Valve Core Service Tool

- Removes and replaces standard size Schrader-style valve cores, plus the larger size found in GM® vehicle systems

#### ACT81290 ‡ Universal Large Bore Remover

- For use on R12/R134a standard valve cores and JRA/EATON large bore R134a valve cores

#### ACT499A ‡ Adjustable Spanner Wrench

- Adjustable three-stud design for R-4 compressors in GM® vehicles
- For use on some GM®, Warner®, Pitts® and Ogura® vehicle clutches

#### R404 ‡ Refrigeration Ratcheting Box Wrench

- Four popular square sizes: 3/16, 1/4, 5/16 and 3/8"
- Quick ratcheting action with reverse levers at both ends

#### RF818SC ‡ 9/16" 6-Point 1/4" Female Square Refrigerant Ratcheting Box Wrench

- 9/16" 6-point for servicing compressor valve caps on one end
- 1/4" female square on the other end for vehicles without Schrader valves

#### TLE80A 1/4" Drive TORX® E6 Shallow Socket

- Services E6 TORX® fasteners on 1977-later Eaton® and York® compressors

#### TLE80A 1/4" Drive TORX® E8 Shallow Socket

- E8 is the correct size to use on upper alternator/generator studs on 2005 Ford® Escape® and 2005 Mazda® Tribute
- Other applications include the head bolts on many automotive A/C compressors
- Manufactured from special alloy steel
- Precision forged and heat treated for optimum strength and durability

#### ACT407 Fin Straightener and Cleaner

- Multihead tool handles 8, 9, 10, 12, 14 and 15 fins per inch
- 4-1/4" long

#### GOGGLE1 Protective Goggles

- ANSI® Z87.1-1989

#### ACT1370 6 pc Disconnect Set (Blue-Point®)

- For use on air-conditioning spring couplings, as well as push-lock connectors on radiator and transmission lines
- Use for disconnecting spring couplings on Ford®, GM® and Chrysler® air conditioning lines
- Works on fuel lines and can be used as push-lock connectors on radiator and transmission lines
- Includes (6) disconnect tools: 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8"
- Includes a holder

# COOLING

EARN CUSTOMER LOYALTY AND EXTRA INCOME BY KEEPING THEIR CARS RUNNING COOL WITH OVERALL RADIATOR, THERMOSTAT AND COOLING SYSTEM MAINTENANCE. NO ONE OFFERS MORE ADVANCED COOLING TOOLS THAN SNAP-ON®.

**KEEP YOUR  
COOL BY  
DOING THE  
JOB RIGHT THE  
FIRST TIME.**

From fillers and pressure testers to radiator cap adapters, we not only offer a wide breadth, we make sure they're the most precise and dependable cooling tools you can buy.

## COOLING: RADIATOR TOOLS



**RADKITULTRA**



**SVTSRAD272A**

**SVTSRAD372TA**



**SVTSRAD272U**

### Vacuum Cooling System Fillers

#### **RADKITULTRA Cooling Refill/Retention Tool**

- Performs both “Coolant Refill” and “Retention”, saving significant time on coolant jobs
- Easy to change from “Refill” to “Retention” so there is no need for two tools, like many competitive products
- Removes hard-to-reach air pockets that can overheat the vehicle
- 5’ exhaust hose directs coolant mist away from the work area and vehicle for safety
- Allows the removal of lower parts, such as water pumps and lower radiator hoses—without draining the system
- Convenient push-button vacuum control valve
- Protective gauge boot helps prevent damage and scratches
- Comes in a rugged case for easy, neat storage
- Vacuum gauge 0–30 in Hg

#### **SVTSRAD272A ‡ Vacuum Cooling System Filler**

- The cooling system refiller provides a benchmark in pumping speed and system evacuation
- The Venturi creates a maximum vacuum of 28.2 Hg, translating to 14% less air remaining within the cooling system; a significant improvement over the previous Snap-on® model
- Evacuation pumping speed has been improved to 2.6 CFM over the existing 2.0 CFM standard of other units, resulting in a 30% increase in speed
- Refill the system faster than ever with a refill rate of 22.7 seconds/gallon—a 23% increase in speed
- Works with all existing TA\* and TAB\* cooling adaptors—available separately for virtually all import and US vehicles
- Eliminates cooling system air locks that can cause overheating
- Ideal for vehicle-specific shops or municipal garages
- Able to use the adaptors provided with the SVTS272
- Gauge includes an internal shock resistance feature and protective rubber boot to assure an accurate reading
- Includes a main body assembly, Venturi and hose assembly, suction hose assembly and instruction manual with complete adaptor list

#### **SVTSRAD272U ‡ Universal Cooling System Filler**

- Same features as SVTSRAD272A, except unit is a universal version that does not require cooling system adaptors
- Includes (2) universal-style cones to cover most applications
- The cooling system refiller provides a benchmark in pumping speed and system evacuation
- The Venturi creates a maximum vacuum of 28.2 Hg, translating to 14% less air remaining within the cooling system; a significant improvement over the previous Snap-on® model
- Evacuation pumping speed has been improved to 2.6 CFM over the existing 2.0 CFM standard of other units, resulting in a 30% increase in speed
- Refill your system faster than ever with a refill rate of 22.7 seconds/gallon—a 23% increase in speed

#### **SVTSRAD372TA ‡ Truck Coolant Refiller**

- The first refiller designed specifically for large trucks and oversize systems; built of the highest quality parts and cut from aircraft-grade aluminum alloy
- The dual Venturi system has a higher capacity and a faster vacuum capability than smaller automotive refillers
- Redesigned pressure gauge allows the tech to read the gauge from the shop floor and not have to climb to an elevated position to monitor the tool
- Longer and larger intake hoses are included to accommodate the height and length of large vehicles and trucks
- Fast refilling means almost a 50% improvement in coolant evacuation—a 20-gallon system can be emptied in under 10 minutes versus over 21 minutes with alternative products
- New vacuum generator creates a much higher vacuum than is possible with alternative products—provides the most complete fill possible, and reduces the risk of callbacks due to trapped air or other complications



**RADKITPLUSA**



**RADKITPLUSJR**

## Vacuum Cooling System Fillers

### **RADKITPLUSA Cooling System Vacuum/Filler**

- Easily eliminates cooling system air locks that can cause overheating
- Uses shop air to pressure test large volumes safely and quickly with a 15 PSI maximum pressure release valve
- Gauge protector helps prevent damage to gauge housing
- Vacuum generator plus large internal passageways produce an industry leading coolant retention rate in excess of 12 CFM
- Switch from coolant retention to pressure testing with the turn of a valve handle
- Requires a 90 PSI (4.2 CFM) air supply
- Includes a Venturi assembly gauge, gauge protector, refill hose assembly, adaptors for most applications, universal fit cone adaptor, hose assembly and instruction manual with a complete adaptor list
- Includes a storage case

### **RADKITPLUSJR Vacuum Cooling System Refiller (Blue-Point®)**

- Reduces system filling time, eliminates air locks and checks for system leaks
- Compact size allows access in restricted underhood areas
- Cone adaptor ensures the unit will work on most US and import passenger vehicles and light trucks
- Push-button control valve eliminates the need to interchange hoses
- Shop air (90 PSI) quickly draws a powerful vacuum
- Eliminates system bleeding and purging

## COOLING: TESTERS



**SVTS272**



**SVTS263A**



**SVTS2000**

## Cooling System Testers

### **SVTS272 ‡ Cooling System Tester**

- System tester will achieve high-pressure with fewer pump strokes
- Design reduces physical effort by nearly one-half
- Includes (4) of the most commonly required adaptors
- Easy identification—adaptors look like the caps from the systems they test
- Safe pressure relief system protects the technician from exposure to the coolant
- Pump can produce up to 30 PSI to pressure test cooling system of cars and light trucks, and even heavy-duty trucks with included adaptors
- Set can test over 90% of the vehicles in the field
- Set can pressure test most US- or Asian-made vehicles
- Additional adaptors are required to test European-made vehicles

### **SVTS263A ‡ Air Powered Cooling System Pressure Tester**

- Uses pressure regulated shop air to pressure test cooling systems for leaks
- Sensitive pressure regulation allows safe testing of small systems
- Sufficient capacity to fill large systems in seconds
- Stainless steel rugged and chrome-plated components ensure maximum durability and a lasting finish
- Pressure gauge has an internal shock absorber protection and rubber boot
- Safety spring release cap assembly limits pressure to no more than 30 PSI
- Convenient swivel hook allows the unit to be hung from under the vehicle hood
- Includes (3) of the most common cooling system adaptors: TAB10036, SVT262-28A and TA38C

### **SVTS2000 ‡ Coolant Barrier Pressure Tester**

- Change cooling system components without draining the system
- Uses shop air to pressure test large volumes safely and quickly with a 15 PSI maximum pressure release valve
- Large hose and higher air flow allows even overfilled systems to be worked on without draining
- Vacuum generator plus large internal passageways produce an industry leading coolant retention rate in excess of 12 CFM
- Switch from coolant retention to pressure testing with the turn of a valve handle
- Clear intake hose allows the technician to see when the coolant is being pulled into the tool



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

# COOLING: RADIATOR TOOLS

## Cooling System Tester Accessories

Radiator adaptors and cap adaptors listed below can be used with the SVTS272 Series and SVTS263 Series cooling system testers. See the SVTS272 cooling system tester instruction manual for a complete listing of specific model year applications. Interactive adaptor search is also available at [www.snaponradiatortools.com](http://www.snaponradiatortools.com).



SVT262-28A



SVT262-29



TA16B



TA18B



TA27



TA31A



TA30A



TA32A



TAB1C035



TA34A



TA36GM



TA38C



TA39A



TA41



TA40



TA44



TA45



TA46



TA48



TA50



TA52



TA54

| Radiator Adaptor | Cap Adaptor | Vehicle Applications  |
|------------------|-------------|---|
| SVT262-28A       | SVT262-29   | Acura®, Chevrolet®, Chrysler®/Dodge®/Eagle®/Plymouth®, Ford®/Lincoln®/Mercury®, Geo®, Honda®, Hyundai®, Infiniti®, Isuzu®, Lexus®, Mazda®, Mitsubishi®, Nissan®, Subaru®, Suzuki® and Toyota® |
| TA16B            | —           | VW® and Audi®   |
| TA18B            | —           | Volvo®, Saab®, Jeep®, Sterling® and Renault®  |
| TA27             | —           | Volvo® Large Trucks with 63 mm x 3 mm Threaded Filler Neck  |
| TA31A            | TA30A       | Volkswagen®   |
| TA32A            | TAB1C035    | Buick®, Cadillac®, Chevrolet®, Ford®, International®, Mercedes-Benz®, Oldsmobile®, Pontiac®, Saturn®, Freightliner®, Kenworth® and Peterbilt®   |
| TA34A            | —           | Cadillac®, Chevrolet®, DAEWOO®, Ford®, Jaguar®, Land Rover®, Pontiac®, Saab®, Saturn® and Suzuki®   |
| TA36GM           | —           | Buick®, Cadillac®, Chevrolet®, Chrysler®, Dodge®, Freightliner®, GMC®, Hummer®, Isuzu®, Jeep®, Mazda®, Oldsmobile®, Pontiac®, Saab®, Saturn®, Suzuki®, and Thomas Built Buses®                |
| TA38C            | TA39A       | Acura®, Chevrolet®, Chrysler®, Dodge®, Eagle, Geo, Honda®, Isuzu®, Lexus®, Mazda®, Mitsubishi®, Pontiac®, Scion®, Subaru®, Suzuki®, Toyota®   |
| TA41             | TA40        | Audi®, Bentley®, Lamborghini®, Porsche®, Volkswagen®  |
| TA44             | TA45        | Chrysler®, Infiniti® and Mercedes-Benz®   |
| TA46             | TAB1C047    | Aston Martin®, Ford®, Jaguar® and Mazda®  |
| TA48             | —           | Lexus®, Lotus®, Scion® and Toyota®  |
| TA50             | —           | Volvo® Large Trucks with 48 mm x 3 mm Male Thread on Filler Neck  |
| TA52             | —           | Mazda® 3 (2004–later) and Volvo® S40/V50 (2004–later)   |
| TA54             | —           | Freightliner® Trucks with 60 x 3 mm Male Thread on Filler Neck  |



SVTA18000

### SVTA18000 18 pc Anodized Aluminum Cooling System Adaptor Kit

- Set contains (18) adaptors in a plastic case, including: SVT262-28A, TA16B, TA18B, TA31A, TA34A, TA36GM, TA38C, TA41, TA44, TA46, TA48, TA52, TA56, TA58, TA86, TA93, TA345A and TA445
- An excellent display case; includes all adaptors necessary for testing passenger vehicle cooling systems through 2015
- Adaptors are made with anodized aluminum and chrome plated zinc
- Plastic box available separately (PBSVTA1417)
- Includes a laminated adaptor application sheet for quick reference and the cooling system application booklet



SVTA9100

### SVTA9100 9 pc Truck Cooling System Adaptor Set

- Built of high-grade aluminum, steel and composite materials
- Developed to work in conjunction with existing coolant system pressure testers and refillers – SVTS272 Coolant System Pressure Tester—SVTSRAD372TA Large Truck Refiller
- Includes: TA18B, TA27, TA32A, TA42, TA50, TA52, TA54, TA84, and TA4505; packaged in the PBSVTA8100 Carry Case



**Cooling System Tester Accessories**

| Radiator Adaptor | Cap Adaptor | Vehicle Applications   |
|------------------|-------------|--|
| TA56             | TA57        | Cadillac® CTS V (2009–current), Chevrolet® Cobalt SS (2005–2010) and Volt, Chrysler® Pacifica (2017–current) and Saturn® Ion Redline (2004 and later) with Supercharger cooling systems  |
| TA58             | TA59        | Dodge® Sprinter Van (2007–2010) with 42 x 2.5 mm Thread On Filler Neck and Mercedes-Benz® Sprinter® Van (2011–current)   |
| TA92             | —           | Chevrolet® and GMC® pick-ups with Duramax: for use with pressure testing; note: left hand thread (2017–current)  |
| TA445            | —           | BMW® and Rolls-Royce®  |
| TA4503           | —           | Buick®, Chevrolet® and Pontiac®  |
| TA245A           | —           | BMW® and Mercury®  |
| TA345A           | TA346A      | BMW® and Land Rover®   |
| TA4505           | TA4504      | AGCO®, John Deere®, Massey-Ferguson®, White and Other Trucks and Heavy-Duty Vehicles with Large Fill (“B”) Neck (2-11/16”)   |
| TA450A           | —           | AGCO®, John Deere®, Massey-Ferguson®, White and Other Trucks and Heavy-Duty Vehicles with Large Fill (“B”) Neck (2-11/16”) Includes A450-1A Rubber Plug  |
| —                | SVT262-21   | Audi®, Buick®, Cadillac®, Chevrolet®, Chrysler®, Dodge®, Eagle, Ford®, GMC®, Hummer®, Isuzu®, Jaguar®, Jeep®, Lincoln®, Mazda®, Mercedes-Benz®, Mercury®, Mitsubishi®, Oldsmobile®, Pontiac®, Plymouth®, Subaru®, Volkswagen® and Volvo® |
| SVT262-28R       | —           | Toyota® Sienna (1998–2006) Remote-Style Adaptor  |
| TA60             | —           | Porsche® Boxter/Cayman (2007–2014) Remote-Style Adaptor  |
| TA63             | —           | BMW® (5, 6 and 7 series; X5 and X6), Infiniti® (2019–current QX30 and QX50), Rolls-Royce® Ghost and SMART® (all models, 2016–current)  |
| TA67             | —           | KTM® Motorcycles   |
| TA72             | —           | Alfa Romeo®, Dodge®, Fiat®, Maserati® and McLaren®   |
| TA84             | —           | Kenworth® T270 and T370 Trucks (2015–current)  |
| TA86             | —           | Hyundai® and Kia®  |
| TA88             | —           | XC90T8 Hybrid and XC40® Volvo®   |
| TA93             | —           | Chevrolet® and GMC® with Duramax® (L5P diesel) (2017–current)  |

Please see [snaponradiatortools.com](http://snaponradiatortools.com) to enter vehicle make, model and year.



• †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

# COOLING: RADIATOR TOOLS



TAB10022      TAB10025      TAB10031      TAB10034



TAB10036      TAB10041      TAB10044      TAB10046



TAB10048      TAB10052      TAB10056      TAB10058



TAB10063      TAB10069      TAB10070      TAB10072



TAB10076      TAB10078      TAB10086      TAB1C087



TAB10090      TAB10093      TAB10245      TAB10345



TAB10445      TAB10052R



SVTAB1400A

## Cooling System Adaptors

| Radiator Adaptor | Cap Adaptor | Vehicle Applications   |
|------------------|-------------|--|
| TAB10022         | TAB1C023    | Audi®, Porsche®, Smart®, Volkswagen®   |
| TAB10025         | TAB1C026    | Ferrari®, Renault®, Saab®, Sterling®, Volvo®   |
| TAB10031         | —           | Volkswagen® (1990–1998)  |
| TAB10034         | TAB1C047    | Cadillac®, Chevrolet®, Daewoo®, Ford®, Jaguar®, Land Rover®, Pontiac®, Saab®, Saturn®, Suzuki®   |
| TAB10036         | TAB1C035    | Buick®, Cadillac®, Chevrolet®, Dodge®, Ford®, Freightliner®, GMC®, Hummer®, Infiniti®, International®, Isuzu®, Jaguar®, Jeep®, Land Rover®, Lincoln®, Mazda®, Mercedes-Benz®, Mercury®, Nissan®, Pontiac®, Saab®, Saturn®, Suzuki® |
| TAB10041         | —           | Audi®, Bentley®, Lamborghini®, Porsche®, Volkswagen®   |
| TAB10044         | —           | Chrysler®, Mercedes-Benz®  |
| TAB10046         | TAB1C047    | Aston Martin®, Ford®, Jaguar®, Mazda®  |
| TAB10048         | TAB1C049    | Some Lexus®, Scion®, Toyota® (especially hybrids)  |
| TAB10052         | TAB1C053    | Aston Martin®, Ford®, Land Rover®, Mazda®, Volvo®  |
| TAB10056         | —           | Cadillac®, Chevrolet®, Saturn®, Chrysler®  |
| TAB10058         | —           | Dodge®, Freightliner®, Mercedes-Benz® Sprinter® Vans   |
| TAB10063         | TAB1C026    | BMW® Turbocharger, MINI®, Nissan®, SMART®  |
| TAB10069         | —           | KTM® Motorcycles   |
| TAB10070         | —           | Aprilia® Motorcycles   |
| TAB10072         | TAB1C026    | Alfa Romeo®, Fiat®, Maserati®, McLaren®, RAM®  |
| TAB10076         | —           | Liebherr® Cranes, Van Hool® Bus  |
| TAB10078         | —           | Porsche® Boxter and Cayman   |
| TAB10086         | TAB1C087    | Hyundai®, Kia®   |
| TAB10090         | —           | Industrial Applications with 4" Opening  |
| TAB10093         | —           | Chevrolet® and GMC® Pickups with Duramax®: for Use with Vacuum Filling (Note: left-hand thread)  |
| TAB10245         | —           | Pre-1988 BMW®, Merkur®   |
| TAB10345         | —           | Most Models BMW® (1988–2008) and Land Rover®   |
| TAB10445         | TAB1C446    | BMW®, Rolls-Royce®   |

Please see [snaponradiatortools.com](http://snaponradiatortools.com) to enter vehicle make, model and year.

### TAB10052R Cooling System Remote-Style Adaptor

- Using the remote adaptor can save between 30–60 minutes when testing the cooling system
- No need to remove the cowling to access the cooling system cap
- Anodized aluminum and chrome-plated zinc add durability and corrosion resistance
- For use in low overhead applications, such as Ford® Escape® (2013–2016)

### SVTAB1400A 14 pc Cooling System Adaptor Set (Blue-Point®)

- TAB series adaptors feature a composite metal/plastic construction for a lower cost option
- Includes (14) composite metal/plastic radiator adaptors: TAB10022, TAB10025, TAB10031, TAB10034, TAB10041, TAB10044, TAB10046, TAB10048, TAB10056, TAB10058, TAB10086, TAB10093, TAB10345, TAB10445, packaged in the PBSVTA1417 Storage Case
- Adaptors are shaped like the caps from the systems they test to make identification easy
- Storage case has extra storage compartments to accommodate the pump and gauge assembly and original three adaptors from the SVTS262C set
- Adaptors are shaped like the caps from the systems they test to make identification easy
- See instruction manual for a complete listing of all applications

### PBSVTA1417 Storage Case (Blue-Point®)

- Removable cover for display
- For SVTAB1400A and SVTA18000

## Cooling System Testers (Bladder Sealing System)

| Stock No. | Description                          | Applications   |
|-----------|--------------------------------------|--|
| SVT2752   | Gauge (0-30 psi) (Blue-Point®)       | —  |
| SVT2753   | 3 pc Spare Bladder Kit (Blue-Point®) | —  |
| SVT2756   | Neck Extension                       | VW® Header Tanks   |
| SVT2757   | Neck Extension (Blue-Point®)         | Japanese Micro Vehicles  |
| SVT2758   | Neck Extension (Blue-Point®)         | Audi®/VW® Header Tanks   |
| SVT2759   | Cap Adaptor (Blue-Point®)            | Standard Bayonet, Ford® Header Tank and GM® N-body                           |
| SVT27510  | Cap Adaptor (Blue-Point®)            | Jeep®, Saab® and Audi®/VW® External Thread Header Tanks                      |
| SVT27511  | Cap Adaptor (Blue-Point®)            | Small Japanese Deep and Audi®/VW® Internal Thread Header Tanks               |
| SVT27512  | Cap Adaptor (Blue-Point®)            | Small Japanese Shallow and Late-Model Audi®/VW® External Thread Header Tanks |
| SVT27513  | Cap Adaptor (Blue-Point®)            | Late-Model BMW®, Land Rover® and Range Rover®                                |
| SVT27514  | Cap Adaptor (Blue-Point®)            | Late-Model Mercedes-Benz® with Thread Type                                   |
| SVT27515A | Pressure Pump                        | —  |
| SVT27516  | Valve Seal Service Kit (Blue-Point®) | —  |
| SVT27517  | Head Assembly (Blue-Point®)          | —  |



SVT275A

### SVT275A Cooling System Tester Set (Blue-Point®)

- Inflatable bladder-sealing system enables use with most passenger and light commercial vehicles
- Tests header tanks and radiator systems, as well as thread-type and bayonet-style caps
- Locate leaks from head gaskets, radiator and heater cores, Welch plugs and housings, water pumps and hoses
- Tests cap relief pressure and seal condition
- Suitable for marine applications
- Fluid drain tube allows coolant to be returned to the reservoir or safely collected for recycling
- Cycle-tested to over 1,500 inflations
- Set includes a pressure pump, gauge, spare bladder, valve seal kit, head assembly, (3) neck extensions, (6) cap adaptors, air supply hose and an instruction manual in a storage case

## COOLING: TESTERS



GDCT16

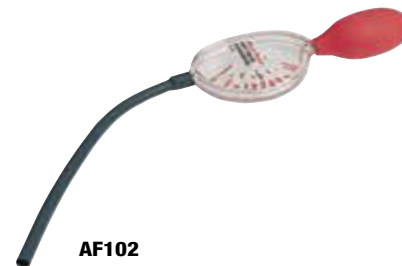
### Leak Testers

#### GDCT16 Combustion Leak Tester

- Provides an easy and quick way to diagnose engine overheating problems
- Checks for leaks between the combustion chamber and the cooling system
- Tests head and gasket for combustion leaks before removing the radiator
- Double chamber in the testing unit provides a high level of accuracy
- For use on water-cooled gas and diesel engines
- Kit includes a complete test chamber, 16 oz bottle of testing fluid and instructions

#### GDCT161 Leak Detector Fluid (Blue-Point®)

- 16 oz bottle of leak testing fluid for the GDCT16 Combustion Leak Tester



AF102

### Antifreeze and Coolant Tester

#### AF102 Antifreeze Hydrometer (Blue-Point®)

- Degree of protection is indicated by a direct reading; no temperature compensation scales are required
- Range of -60–32 °F
- Range of -51–0 °C
- Tests hot and cold solutions



**WARNING**



• Read safety precautions on pages W1 to W4



YA1000A



HCR1



YA9521



YA9325-1



YA9980A



YA6160



YA6210



YA6120



FCT706

## Hose Cutters and Removers

### YA1000A 9-5/8" Multi-Cutter (Blue-Point®)

- Ideal for cutting heater hoses, fuel line hoses, copper wiring, PVC pipes, wiper hoses and air brake hoses, plus any resilient or semi-resilient material with a 0–1-1/8" dia.
- Comfort contoured handles with plastic grips
- Wire loop for safe storage
- 9-5/8" long

### YA1000A1 Replacement Blade

- Replacement blade for the YA1000A Multi-Cutter

### HCR1 Heater Hose Coupler Removal Tool (Blue-Point®)

- Removes broken heater hose couplers on GM® vehicles
- Can be used with an impact wrench

## Fan Clutch Wrenches/Pulley Holders

### YA9521 Flat Wrench (Blue-Point®)

- 36/48 mm wrench size, 356 mm long

### YA9325-1 Metric Flat Wrench (Blue-Point®)

- 36 mm wrench size, 343 mm long

### YA9980A Water Pump Fan Clutch Pulley Holder (Blue-Point®)

- Used on vehicles with pressed on pulleys
- For use on 6.0 L V8 1999–later GM® and 3.9 L V6, 4.7 L V8, 5.2 L V8, 5.9 L V8, 8.0 L V10 1998–later Chrysler®
- Cannot be used on Chrysler® 4.7 L V8 using factory replacement water pumps

### YA6160 Universal Fan Clutch Pulley Holder (Blue-Point®)

- Removes and replaces the fan clutch on vehicles using bolt-on water pump pulleys
- Reverse pulley holder is for assembly operations
- Use with the YA9521 36/48 mm wrench or YA9526 40 mm wrench for many Chrysler®, Ford®, Lincoln®, Mercury® and GM® applications

### YA6120 Fan Clutch Wrench for BMW®/Audi®/VW® Vehicles (Blue-Point®)

- 32 mm fan clutch wrench is used with the YA6160 Fan Clutch Pulley Holding Tool to service 1996–later Audi® vehicles, 1998–later 3.0 L V6 VW® Passat®, plus BMW® 3, 5, 6, 7, 8, X and Z series vehicles
- YA6160 works on all models listed except 4.0 L and 4.4 L V8 engines
- Made from heat-treated steel
- 17" (431.8 mm) overall length

### FCT706 Fan Clutch Wrench (Blue-Point®)

- Used for heavy-duty truck engines
- Hole pattern on the tool aligns with fasteners on the fan hub
- Open end wrench is used to remove the fan clutch
- 24-1/2" long for maximum leverage

### YA6120 Fan Clutch Wrench Set (Blue-Point®)

- Ford®/Lincoln®/Mercury® applications include E-Series trucks
- 4.9 L (1984–1991), F-Series trucks 4.9 L (1984–1992), Bronco® II and Ranger® 2.8 L (1984–1985), Ranger® 2.9 L (1986–1992), Aerostar® 3.0 L (1986–1988), Aerostar® and Ranger® 4.0 L OHV (1990–later), Explorer® 4.0 L OHV (1991–later), Mazda® Navajo 4.0 L OHV (1991–1994), Mazda® B4000 4.0 L OHV (1995–later), Explorer® 4.0 L V6 SOHC (1997–later) and Mountaineer® 4.0 L V6 SOHC (1998–later)
- GM® Applications: ASTRO® and Safari® vans 4.3 L, Blazer, Jimmy and Bravada® SUV 4.3 L, S10, Sonoma and Isuzu® Hombre pickups with 2.2 L 4 cylinder and 4.3 L V6, C1500, C2500, C3500, K1500, C1500/C2500/C3500/K1500 Sierra® pickups, G1500/G2500 Chevrolet® Express, G1500/G2500 Savana® vans 4.3 L V6, 5.0 L V8 and 5.7 L V8; and Suburban®, Tahoe®, Yukon®, Escalade®, Denali® and Envoy® 5.7 L V8



**Radiator and Freeze Plug Tools**

**RCR1 Radiator Coolant Reservoir Cap Tool**

- 3/8" drive tool is used to remove stubborn radiator coolant reservoir caps on 2006–current BMW® vehicle engines
- Will not mar the reservoir cap like pliers can
- Made of nylon

**RCR2 Radiator Coolant Reservoir Cap Removal Tool**

- Made with a tough nylon material that will not damage the coolant reservoir and oil fill caps
- Steel square drive for added durability
- Use with a 3/8" drive ratchet
- Removes and installs radiator caps on 2008–current Peterbilt® semitrucks

**GA424A Belt Tension Gauge (Blue-Point®)**

- 30–180 lb (130–800 N•m) range
- Squeeze handle, place gauge on drive belt, release handle and read

**YA9190 Universal Radiator Drain Plug Socket (Blue-Point®)**

- Double-slotted end of the 3/8" drive socket will fit most radiator drain plugs that have thumb wings
- Will fit Acura®, Honda®, Toyota®, Lexus® and other import vehicles

**2009FPI Freeze Plug Installer Kit**

- 18-1/2" long installing tool with ball-type swivel for easy positioning
- Includes (7) installer heads in 20, 25, 30, 35, 40, 45 and 50 mm sizes

**YA7747 Pneumatic Adaptor (Blue-Point®)**

- Speeds freeze plug installation
- For use with the 2009FPI Installer Kit
- Parker-style shank enables use with air hammers

**LDTSP4 Quick Disconnect Fittings Set (Blue-Point®)**

- Includes 3/8", 1/2", 5/8"-30% and 5/8"-39% sizes
- Applications: 1996–newer GM® vehicles, many 2004–newer Daimler Chrysler® vehicles, some 2005–newer Mercedes-Benz® vehicles, V-Rod®, Freightliner®, Peterbilt®, Volvo® and White®
- Handy spring action keeps the tool on the line for ease of use
- Teeth fit perfectly into the tight tolerance of Jiffy-tite® connectors
- When rotated, allows the line to be pulled without damage to the connector or retaining clip
- Fits the most popular Jiffy-tite® fittings found on oil cooler lines used on transmissions and radiators, and on other applications

**Shutoffs/Hose Pinching Pliers**

**HCP10A Hose Pinching Pliers (Blue-Point®)**

- For sealing hoses 3/4–2-1/4" (19–57 mm)
- For use on radiator hoses
- 10" long



## COOLING: SERVICE TOOLS



HCP48ACF



HCP9



HCP10



HCP20



YA497A



PHP1A



PHP2A



PHP3A



HCL103

## Hose Clamp Pliers

### HCP48ACF Mobeas Hose Clamp Pliers

- Three-position joint gives a wider jaw spread
- For 3/4–2" dia. clamps
- Specially milled jaw holds the hose clamp securely for removing or replacing
- Radial jaw serrations allow the user to grip and adjust the hose

### HCP9 Corbin Heater Hose Clamp Pliers (Blue-Point®)

- 9" long
- Removes or replaces all spring wire hose clamps
- Deep, slotted jaws swivel 180° and lock in three different positions

### HCP10 Mobeas Heater Hose Clamp Pliers (Blue-Point®)

- 9" long
- Removes or replaces all spring wire hose clamps
- Deep, slotted jaws swivel 180° and lock in three different positions
- Used for hose clamps found on GM®, Ford®, VW®, BMW®, Toyota®, Volvo® and Audi® vehicles

### HCP20 Mobeas Heater Hose Clamp Pliers (Blue-Point®)

- For heater and radiator hoses found on 1988–1990 GM®, Ford®, Chrysler® and most imports
- Jaws pivot to almost any angle

### YA497A Hose Removal Pliers (Blue-Point®)

- Simplifies the removal of 5/32–1/2" vacuum and fuel hoses
- 8" long

### PHP1A 9-1/4 Swivel Jaw Hose Clamp Pliers (Blue-Point®)

- 9-1/4" overall length
- Pliers is designed with a self-locking feature that holds after pressure is applied, simply pull the pliers handle apart to release the pressure
- Used to seal vacuum hoses, fuel lines, plus other flexible materials
- Patent-pending offset design allows more access in hard-to-reach areas
- Black industrial finish
- Clamps hoses up to 1-1/4" O.D.

### PHP2A 14 Swivel Jaw Hose Clamp Pliers (Blue-Point®)

- 14" overall length
- Pliers is designed with a self-locking feature that holds after pressure is applied, simply pull the pliers handle apart to release the pressure
- Used to seal vacuum hoses, fuel lines, plus other flexible materials
- Patent-pending offset design allows more access in hard-to-reach areas
- Black industrial finish
- Clamps hoses up to 2-1/2" O.D.

### PHP3A 5-1/2 Swivel Jaw Hose Clamp Pliers (Blue-Point®)

- 5-1/2" overall length
- Pliers is designed with a self-locking feature that holds after pressure is applied, simply pull the pliers handle apart to release the pressure
- Used to seal vacuum hoses, fuel lines, plus other flexible materials
- Patent-pending offset design allows more access in hard-to-reach areas
- Black industrial finish
- Clamps hoses up to 3/4" O.D.

### HCL103 3 pc Spring Hose Clamp Lock Set

- Allows a technician to hold the hose clamp open while freeing up hands and pliers to access the next clamp
- Compact size allows a technician plenty of room to work while tool is employed
- Available in three sizes to fit most clamp styles

### HCL1 .450" Hose Clamp Lock

- Designed to work on larger clamp styles

### HCL2 .350" Hose Clamp Lock

- Designed to work on medium-sized hose clamps

### HCL3 .150" Hose Clamp Lock

- Designed to work on smaller hose clamps



**SGRHT2BR**



**SGRHTLB3BR**



**SGRHT6BR**



**SGA102BR**



**SGAL102BR**

**Soft Grip Hose Picks**

- Ideal for removing and replacing hoses and clamps
- Unique hose blade design for getting around difficult obstacles
- Soft, solvent-resistant handle provides a sure, comfortable grip
- Instinct® handle provides maximum comfort and grip

Set Contains:  
 SGRHT2BR\*  
 SGRHT6BR\*  
 SGRHTLB3BR  
 SGA102BR\*  
 SGAL102BR

| Stock No.   | Description                               | Blade Length, inches (mm) | Length, inches (mm) | SGRHT2BR* | SGRHT6BR* | SGRHTLB3BR | SGA102BR* | SGAL102BR |
|-------------|---|---------------------------|---------------------|-----------|-----------|------------|-----------|-----------|
| SGA173BR*‡  | Soft Grip Radiator Hose Pick              | 5.43 (137.9)              | 10.33 (262.4)       | •         | •         |            |           |           |
| SGA174BR*‡  | Soft Grip Radiator Hose Pick              | 4.94 (125.5)              | 9.84 (249.9)        |           | •         |            |           |           |
| SGA175BR*‡  | Soft Grip Radiator Hose Pick              | 4.61 (117.1)              | 9.51 (241.6)        |           | •         |            |           |           |
| SGA1710BR*  | Soft Grip Radiator Hose Pick              | 11.66 (296.1)             | 16.56 (420.6)       | •         | •         |            |           |           |
| SGA1711BR*  | Soft Grip Radiator Hose Pick              | 10.89 (276.6)             | 15.79 (401.1)       |           | •         |            |           |           |
| SGA1712BR*  | Soft Grip Radiator Hose Pick              | 11.00 (279.6)             | 15.91 (404.1)       |           | •         |            |           |           |
| SGA176BR    | Soft Grip Radiator Hose Pick              | 5.62 (142.9)              | 10.50 (266.7)       |           |           |            | •         |           |
| SGA177BR    | 90° Blade Soft Grip Radiator Hose Pick    | 5.19 (131.8)              | 10.09 (256.2)       |           |           |            | •         |           |
| SGCP1BR*    | Soft Grip Cotter Pin Puller               | 5.15 (130.8)              | 10.00 (254)         |           |           |            | •         |           |
| SGA1713B    | Radiator Hose Pick Long Blade             | 8.125 (209.55)            | 13 (330.2)          |           |           |            |           | •         |
| SGA1714B    | Radiator Hose Pick Short Blade            | 4.875 (123.8)             | 9.625 (248.4)       |           |           |            |           | •         |
| SGAL1713BR* | Instinct® Bent Wide Tip Radiator Pick     | 21.75 (552.4)             | 26.625 (676.2)      |           |           |            |           | •         |
| SGAL1714BR* | Instinct® Straight Wide Tip Radiator Pick | 21.625 (549.2)            | 26.5 (673.1)        |           |           |            |           | •         |

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



- Plastic coated handle does not protect against electric shock
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## COOLING: REMOTE HOSE CLAMP PLIERS



SHCP1B

### SHCP1B Remote Ratcheting Hose Clamp Pliers

- Removes standard, space-saver and pre-opened hose clamps up to 2"
- Unique jaw design—now with thicker jaws for added life—works on all three clamp types
- Heavy-duty 5/64" cable with a new assembly method for extra-long life
- Hardened five-stop ratchet lock with a slide guide ensures engagement without slipping or stripping the teeth
- Bi-mold grips with a cable snap feature
- Easy replacement cable fixture




SHCP2

### SHCP2 Remote Hose Clamp Pliers

- Infinite locking positions—friction-locking mechanism allows the user to hold the clamp open at any position from closed to fully open
- Ergonomic grip—low, constant operating force applied to the wide, comfortable pistol grip results in reduced effort and hand fatigue during operation
- Increased accessibility longer cable is flexible over its entire length, allowing it to reach in and around obstacles that slide-style remote hose clamp pliers cannot
- Longer clamp end—longer flexible engaging end works on larger clamps in any position on the hose
- Lifetime warranty on the handle—repair kit is available for the cable and jaws



# SHOP EQUIPMENT



OF COURSE SNAP-ON® PROVIDES THE SHOP BASICS THAT EVERY GARAGE NEEDS. BUT THERE'S NOTHING BASIC ABOUT THE ENGINEERING AND MANUFACTURING THAT GOES INTO EACH OF OUR SHOP TOOLS. SO YOU CAN DO YOUR JOB BETTER, FASTER AND MORE COMFORTABLY.

**SHOP  
AROUND AND  
YOU'LL SEE  
WHAT MAKES  
OUR SHOP  
PRODUCTS  
BETTER.**

From air compressors, vises and abrasive blast systems to workbenches, fluid maintenance equipment and paint equipment, our shop tools are built to outperform and outlast the competition. And our breadth of lighting, lubrication, measurement, body repair and other tools makes us your best choice for the essentials, too.

## LIGHTING: FLASHLIGHTS (BATTERY)



ECFLB024-RD

### ECFLB024-RD 280 Lumens (AA) LED Flashlight Red

- Mechanical tail cap switch with momentary “tap on” function allows for spot illumination while the button is held under pressure
- Reliable alkaline power cells
- Durable precision-machined aluminum body made from solid aluminum with high-grade anodized finish
- Impact-resistant up to two meters, shockproof, crushproof and IPX4 rated for water resistance



ECFLD030

### ECFLD030 Wireless Charging 300 Lumen Flashlight

- IP65-rated for water and dust resistance
- Overmold design for anti-skidding
- Onboard battery fuel gauge easily informs the user how much power is remaining
- Dimmable switch with memory function; press and hold the switch to activate
- Only works with the Snap-on® ECFLPRA0 Charging Base
- Positioning the lamp on the charging panel after use provides dynamic charging
- Easy positioning of the lamp on panels with magnets on back



ECFLF034

### ECFLF034 Roadside Hazard Light

- Two-in-one lamp: flashlight and flare light
- 250 lumen output for flashlight and 80 lumen output for flare light
- Two-position switch independently controls power for flashlight and flare light
- Lights on both sides can work at the same time
- Powered by (3) AA batteries (included)
- Metal clip design for hands-free use
- Environmental bag for packing
- IP65-rated for resistance to water and dust infiltration
- Approximately 250 lumens (flashlight only—highest brightness)
- Approximately 200 lumens (both side lights and flare light on solid mode—highest brightness)
- Approximately 100 lumens (both side lights and flare light in SOS mode)
- Approximately 80 lumens (flare light only)

## LIGHTING: FLASHLIGHTS RECHARGEABLE



ECFLC081-RD

### ECFLC081-RD LED Rechargeable Tactical Flashlight

- Revised and updated rechargeable flagship aluminum flashlight
- Increased run time when compared to previous offering—ECFLC increased to 2 hours on high (originally 90 min)/138 hours on low
- Durable precision-machined aluminum body is made from solid aluminum with a high-grade anodized finish
- Patented optical system with a machined aluminum reflector for optimal thermal management and beam projection
- Impact resistant up to one meter, shockproof, crushproof and IP65-rated for water and dust resistance
- Electronically controlled LED driver for uniform light output
- Recharges in approximately three hours
- Lifetime warranty
- Kit includes the flashlight, 2,600 mAh lithium-ion rechargeable battery, charging cradle, AC power supply and vehicle adaptor

## LIGHTING: PENLIGHTS (BATTERY)

### ECPNB024-RD\* LED Penlight with UV Mode

- Latest in COB technology produces nearly 200 lm of crisp, clean illumination
- Secondary mode provides strong UV illumination specifically tuned for superior performance in UV dye inspections
- Independent switching provides quick, straightforward access to the mode of choice (UV versus standard)
- 5-plus-hour run time off of standard alkaline batteries
- Rugged ABS material insures durability and long life

### ECPNC013-RD\* 185 Lumens (AAA) LED Penlight

- Mechanical tail cap switch with a momentary “tap-on” function allows for spot illumination while the button is held under pressure
- Reliable alkaline power cells
- Durable precision-machined aluminum body is made from solid aluminum with a high-grade anodized finish
- Impact-resistant up to two meters, shockproof, crushproof and IPX4 rated for water resistance

### ECFB200BL High-Intensity Penlight (Blue-Point®)

- High-intensity 3 W LED, 100 lm penlight
- Extremely bright light output
- Uses (3) AAA alkaline batteries
- Only 6-1/4" long and 1/2" diameter
- Includes a pocket clip and protective rubber tip

### ECFBARPKT-WC High-Power COB Pocket Light with UV

- New COB LED produces over 165 lm of super bright light
- True UV LED is the ideal light for UV dye inspections— one of the most easily detectable responses available
- Pocket clip has powerful magnet embedded in it for hands free use on metal surfaces
- Two-position switch independently controls power for main LED and alternate UV function
- Rugged ABS material insures durability and long life
- Soft touch finish adds anti-slip control when holding light
- Uses (3) AAA batteries



ECPNB024-RD



ECPNC013-RD



ECFB200BL



ECFBARPKT-WC

#### Colors Available



\*  
ADD SUFFIX TO STOCK NUMBER  
FOR SPECIAL COLORS

## LIGHTING: PENLIGHTS (RECHARGEABLE)

### ECFPEN7HOB Rechargeable Penlight (Blue-Point®)

- Bright, broad illumination covers a wide area
- Seven high-output front-facing LEDs
- Spot lens on the bottom of the light for inspection
- Compact size fits in a shirt pocket

### ECPNA021 250 Lumen Rechargeable Penlight

- Penlight specifically designed for/by automotive technicians
- 200 lm spotlight/250 lm work light
- Individual switches for each light provides faster, easier interaction
- Variable brightness memory switch (0–100%) not only allows for “stepped” brightness levels, but also remembers the last selection
- Carries an IP65 rating, signifying advanced protection against damaging liquids and dust
- “Duel fuel” light; operates with lithium-ion or alkaline batteries
- Robust construction—built with high-grade materials like aircraft aluminum to withstand multiple drops and demanding environments
- Stylish design with a magnetic dock for recharging



ECFPEN7HOB



ECPNA021



• Do not remove or bypass the grounding prong on any electrical plug  
• Read safety precautions on pages W1 to W4

## LIGHTING: PROJECTS (RECHARGEABLE)



ECPRB042



ECPRA072



ECPRC050

### Colors Available



Red Orange Green

\* O GR

\*\* O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### ECPRB042\*\* 400 Lumen ABS Project Light

- 360° of rotation allows for maximum illumination angles when in use
- Built of high-quality ABS plastic for an inexpensive entry into the Snap-on® project light family
- Intelligent lighting control holds memory and allows for variable brightness (5–100%) that gives the ability to select the right amount of light for every situation
- 400 lm for 2-1/2 hours of run time; 40 lm for over 10 hours of run time
- Bidirectional USB-C for the latest charging technology (AC adaptor not included)
- Strong magnetic base provides the ability to place the lighting tool in the tightest of spots

### ECPRB042\*\* 400 Lumen ABS Project Light

- Built with aircraft-grade aluminum alloy to last in the toughest environments
- Variable brightness switch (0–100%) gives the ability to select the right amount of light for every situation
- 10-hour operation time on low; 1 hour on high
- IP65-rated for water and dust resistance
- Battery “fuel gauge” provides the ability to instantly know how much power is remaining
- New USB-C power connection for hassle-free recharging—no need to look at the cable and cord

### ECPRB042\*\* 400 Lumen ABS Project Light

- IP65 rated for water and dust resistance
- Overmold design for anti-skidding
- Strong magnet at the bracket bottom
- Onboard battery “fuel gauge” easily relays how much power is remaining
- Dimmable switch with memory function, press and hold the switch to activate
- 360° folding design with magnets offers the ultimate in flexible positioning
- Only works with Snap on® charging panels and accessories
- Positioning the lamp on the charging panel after use provides dynamic charging
- Easy positioning of the lamp on panels with magnets on back

## LIGHTING: ARTICULATING (BATTERY)



ECARD062

### Colors Available



Red Orange Green

O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### ECARD062 Dual-Sided Flex Light

- IP65 rated for water and dust resistance
- Battery “fuel gauge” displays the unit’s remaining power
- 270° folding design and multiple magnets offer the ultimate in flexible positioning
- Strong magnets on the bottom and back enable hands-free use
- Main light features a dimmable switch with memory; press and hold the switch to activate
- Dual light wand design provides overall lighting
- Switch freely between single and dual lighting
- Spotlight on the top for focused light
- Reliable and safe design—only the outside light can be turned on when folded
- Overmold design provides anti-skid grip
- Rechargeable using the bidirectional USB-C port
- 600 lm single side
- 800 lm when both sides are illuminated
- 300 lm spotlight

## LIGHTING: ARTICULATING (RECHARGEABLE)

### ECSPA032 300 Lumen LED Articulating Detail Light

- LED lamp produces up to 300 lm
- 18" hose design adjusts to any angle
- Overmold design enables a comfortable grip
- Strong built-in magnets on the base enable hands-free use
- Rear clip locks the loop's neck into place
- Variable brightness switch with memory function provides maximum versatility; press and hold the power button to set
- IP65 rated for water and dust resistance



ECSPA032

### ECARC041 \*\* 400 Lumen Articulating Light with Charging Base

- Intelligent lighting control holds memory and allows variable brightness (5–100%), giving the ability to select the right amount of light for every situation
- Individual buttons for each light element, no cycling through modes to get the desired LED illumination
- 400 lumen light with a UV spotlight specifically designed for leak detection tasks located at the tip of the light
- Charging base with USB out eliminates the need to “plug in” while also allowing the ability to charge other electronic devices while working
- Magnets in both the charging base and light increase application and storage options
- 120° articulation allows you to get the light where and when it is needed



ECARC041

### ECARB042A \* Rechargeable Worklight/Spotlight (400/300 Lumen)

- Features an improved durable aluminum head
- 270° folding design and multiple magnets offers the ultimate in flexible positioning
- Two different lighting modes for the most popular applications
- Variable dimmer lets the user choose the best level of light and it remembers the setting
- 3–6 hour run-time based on the brightness level
- All-aluminum frame stands up to the most demanding uses
- Charges with a standard bidirectional USB-C port
- IP54 rating allows for exposure to water and dust



ECARB042A

### ECARA052A \*\* Rechargeable Angular Light

- Variable brightness switch (0–100%) gives the ability to select the right amount of light for every situation
- Intelligent lighting control provides a visual warning when the light has less than 5% power remaining
- Built-in hook, (2) magnets and a tether point provide maximum flexibility when attaching the light to a work site
- 4-hour run time at 100% brightness; 8-hour run time at 40%
- IP65 rated for water and dust resistance, allowing for exposure in even the toughest environments
- Battery “fuel gauge” provides the ability to instantly know how much power is remaining
- Ergonomic grip and a pivoting light bar provide comfort and light where it is needed most



ECARA052A

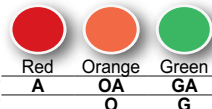
### ECAR1032 Rechargeable Articulating Stick Light (Blue-Point®)

- One of the best entry-level articulating lights on the market
- Versatile light with 150° folding design offers highly flexible positioning
- Magnets located on the back and bottom of the light allow for vertical or horizontal hands-free use
- 4-hour run time provides ample time to complete most projects
- Two lighting elements for multiple applications: 90 lm spotlight and 300 lm main light
- Rechargeable using a standard USB; compatible with most existing phone wall chargers



ECAR1032

#### Colors Available



\* A OA GA  
\*\* O G  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Do not remove or bypass the grounding prong on any electrical plug  
• Read safety precautions on pages W1 to W4

## LIGHTING: SHOP LIGHTS (RECHARGEABLE)



### ECFLED84 Rechargeable Shop Light

- 84 high-output SMD LEDs produce approximately 550 lm
- Bright spotlight on top
- Two brightness levels (50 and 100%)
- 4,400 mAh lithium-ion rechargeable battery
- Includes a 1A Micro USB charger and cable

### ECSHA042 400 Lumen Rechargeable Shop Light with UV Detection

- Standard white LED for general illumination, UV light for leak detection—individual switches for each
- Variable brightness provides the ability to choose the right amount of illumination at the right time
- Magnetic hook/clip assembly is easily removed based on preference or accessibility
- 2-plus-hour run time at 100% brightness; 6-plus-hours at 40% brightness
- IP54 rating allows for exposure to water and dust in the toughest environments

### ECFBP6 High-Output Rechargeable Shop Light (Blue-Point®)

- Six super-efficient SMD LEDs produce 500 Lux @ 0.5 meters, 350 lm light output
- 2,000 mAh lithium-ion battery provides a 3-hours run time, requires 4 hours of charge time
- USB charger and cable are included for easy charging anywhere
- Sealed against moisture and dust
- IP65 rated for water and dust resistance
- Two brightness settings—100% and 50% for a longer run time
- 180° hinge for mounting flexibility
- Strong magnet in the base for mounting to ferrous surfaces
- Retractable hook and stand for multiple positioning options
- Recessed front lens reduces the likelihood of surface scratches

### ECST1042 450 Lumen Rechargeable Shop Light (Blue-Point®)

- Rechargeable and cordless for convenient use
- 42 SMD LEDs with a diffusion tube produce shadow-free illumination
- Powerful torch function for direct, 100 lm illumination
- 3-hour run time using the main light/10-hour run time using the spotlight
- IP65 rated for water and dust resistance
- Broad 180° light pattern covers a wide work area

### ECST2042 Rechargeable Slim Light (Blue-Point®)

- 10 SMD front-facing LEDs provide strong light output to work surfaces
- USB charger cord and charger for multiple options recharging
- High 400 lm light output
- Bright 80 lm spotlight output
- Designed with two brightness levels
- Slim design for use in tight places
- Battery (2,600 mAh) provides up to 3 hours of run time at 100%; 6 hours at 50%

### ECFBAR300G\* Rechargeable Shop Light (300 Lumens)

- New COB LED provides 300 lm output
- Rechargeable—no need to purchase replacement batteries
- Two-position switch (high/low)—extends the run time
- Rugged aluminum body adds durability
- 3.7V 2,000 mAh lithium-ion battery
- 3-hour run-time on high; 6-hours on low
- Field repairable—any repair can be performed in a matter of minutes
- AC charger is included
- CE-English only
- UL®/cUL Listed

### ECU325-4 Rough Service Bulb

- Silicon cocoons the internal components in the base to extend the starter life
- Superior durability in harsh conditions
- Decreases downtime for replacing bulbs
- Replacement bulb for most twin tube 13 W fluorescent lights

Colors Available



\* Orange OR Green G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## LIGHTING: HEADLAMPS (BATTERY)

### ECHD1023 Multifunction LED Headlamp (Blue-Point®)

- Four-position soft-touch power button
- Spot LED: 250 lm, 3-hour run-time
- White flood COB LED features 150 lm and 4-hour run-time
- Red flood COB LED
- (3) AAA batteries are included
- High-quality elastic headband for ease of use and comfortable wear
- Red safety flasher light on the rear of the headlamp



ECHD1023

## LIGHTING: HEADLAMPS (RECHARGEABLE)

### ECHDB022 275 Lumen Magnetically Mountable Headlamp

- Slim and rugged; allows for a comfortable light that can be used in multiple applications or environments
- Variable brightness provides the ability to choose the right amount of illumination at the right time
- Light and battery are built into one package and secured to an adjustable headband by a uniquely designed clip mechanism
- Easily remove the light from its band and attach it to other locations with built-in magnet
- 2-plus-hour run-time at 100%; 6-plus-hours at 40% brightness
- IP65 rating allows for exposure to water and dust in the toughest environments
- Rechargeable via a standard USB-C connection for ease of use



ECHDB022

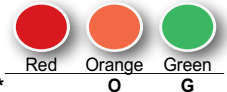
### ECHDC038 \* Rechargeable Hands-Free Neck Light

- Rechargeable 250 lm (125 on each side) COB LED work light
- Can be placed on neck or head for hands-free use
- Each side pivots up to 70° for the perfect light focus
- Dimming feature allows the user to set the light intensity at the desired level of lighting output
- Micro USB-C rechargeable
- Up to an 8-hour run time



ECHDC038R

Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## LIGHTING: FLOODLIGHTS (RECHARGEABLE)

### ECFD0102 900 Lumen Mini Floodlight (Blue-Point®)

- IP68 rated to be waterproof and resistant to dust infiltration
- Compact pocket-sized design; easy to hold in one hand
- Strong magnet is located in the bottom of the bracket
- 180° swivel base
- 900 lm
- 3-hour run time on high; 6-hours on low



ECFD0102

### ECFDB358 Rechargeable 4,000 Lumen Floodlight

- Intelligent lighting control holds memory and allows variable brightness (5–100%), providing the right amount of light for every situation
- 20-hour run time at minimum brightness; 2 hours at maximum brightness
- USB-out port allows the user to charge other electronic devices while working
- Robust aluminum heat sink housing is able to withstand demanding environments
- Large, well-defined handles for maximum portability
- Lighting element pivots up to 100° from the resting point for ease of use
- Built-in cord wrap doubles as a carrying handle
- Magnetic feet are available as accessory items (EC-ACY-MAG)



ECFDB358



- Do not remove or bypass the grounding prong on any electrical plug
- Read safety precautions on pages W1 to W4

## LIGHTING: UNDERHOOD



ECUHB072



ECUB168



ECUHC102



ECUHD218

### ECUHB072 700 Lumen Underhood Light

- Over 700 lm of illumination
- Expandable 80" clamp provides maximum utility for underhood, undercarriage or over-dash applications
- Built with proven components and high-impact lighting tube currently used in the CTLUH761 Series
- Two brightness settings (50% and 100%) give the ability to select the right amount of light for every situation
- 4-plus-hour run time at 100%; over 8-hours at 50%
- IP67 rating allows for exposure to water and dust in the toughest environments
- Tubes use diffusion technology to evenly spread illumination and eliminate shadows

### ECUB168 168 LED Corded Underhood Light (Blue-Point®)

- Corded version has added advantage of continuous use, not limited by battery run time
- 168 high-output LEDs create 1,200 lm 900 lux at 0.5 meters
- Diffusion tube technology eliminates any shadows
- 180° light distribution illuminates the entire engine compartment
- Underhood bracket telescopes from 47–71" to fit most vehicles

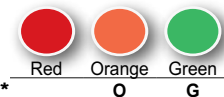
### ECUHC102 1,200 Lumen Underhood Clamp Light

- Versatile 1,200 lm light with an underhood clamping system and a detachable handle
- Intelligent lighting control holds memory and allows variable brightness (5–100%), giving the ability to select the right amount of light for every situation
- 3-hour run time on high (1,200 lm); 10-hours of run time on low (150 lm)
- Multiple articulation points mean the user can point the light precisely where it is needed
- Non-scratching pads on the clamp mechanism allow for use even on the newest of vehicles
- Bidirectional USB-C, battery “fuel gauge” and charging indicator for the latest in charging technology

### ECUHD218\* Underhood Light

- IP65-rated for resistance to water- and dust-infiltration
- LED lamp produces up to 2,100 lumens
- 90° rotatable hooks allow for different application
- Built-in slide and 300° swivel capability allows the light to be focused exactly where it's needed
- Extendable bracket can extend the light bar from 48–75"
- Easily mount and dismount the light from the under hood bracket for use in other applications
- Multi-function under hood light with charging bar
- Magnetic base on light allows for mounting to other materials
- Faster charge when on the bar plugged in, and USB-C charger is plugged in as well – full charge this way is 2 hours

#### Colors Available



\* Red Orange Green  
O G  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



### ECF1600 Bendable Light (Blue-Point®)

- 10" flexible shaft with a 3/16" high-intensity lamp
- Heavy-duty barrel handle and switch
- 16" bendable light
- Includes (2) AA batteries



ECF1600

### ECFPVOT6 Magnetic Rotating Base Light (Blue-Point®)

- Six high-output LEDs produce 375 lm of light output
- Strong magnetic swivel base securely attaches to any ferrous surface
- Pivoting ball-joint base allows for positioning at any angle
- Operates on (3) AA alkaline cell batteries (included)



ECFPVOT6

### ECSPB023R \* † COB LED Pocket Flood/Flashlight with Laser Pointer

- Three-in-one flat surface floodlight, flashlight and laser pointer
- COB LED floodlight for larger work areas
- 200 lumen floodlight for easy part inspection
- 80 lumen flashlight
- Red laser pointer
- Powered by (3) AAA batteries
- Magnetic pocket clip



ECSPB023R

### ECFLPRA350 Wireless Charging Lighting System

- Wireless dynamic charging system allows recharging of either light separately, no need to charge at the same time
- Only works with Snap-on® wireless lights and accessories
- Recharge using the bidirectional USB-C connection
- Equipped with built-in magnets
- Charge external devices with built-in USB charging port (Output: DC 5 V 1 A)
- Wireless charging system includes ECFLD030 Wireless Charge Flashlight, ECPRC050 Wireless Charge Project Light and ECFLPRA0 Wireless Charging Base



ECFLPRA350

Colors Available



\* R O G  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

### CTLAR761 \* 14.4 V MicroLithium 500 Lumen Cordless Angular Light

- Variable brightness switch (0–100%) gives the ability to select the right amount of light for every situation
- Intelligent lighting control provides a visual warning when the light has less than 5% power remaining
- Built-in hook, (2) magnets and a tether point provide maximum flexibility when attaching the light to a work site
- 4-hour run time at 100% brightness; 8-hour run time at 40%
- IP65 rated for water and dust resistance, allowing for exposure in even the toughest environments
- Battery “fuel gauge” provides the ability to instantly know how much power is remaining
- Ergonomic grip and pivoting light bar provide comfort and light where it is needed most
- Works with CTB8172BK and CTB8174 batteries
- Battery and charger are not included



CTLAR761

### CTLFD761 14.4 V MicroLithium Cordless Floodlight

- 15-hour run time at minimum brightness; 3-hours at maximum brightness
- Works with Snap-on® CTB8174 Battery Pack (not included; sold separately)
- Unique hinged design allows for up to 120° of adjustment
- Variable brightness switch with memory function
- Strong magnet on the bottom
- IP54 resistant to water and dust infiltration



CTLFD761

### CTLSH861 14.4 V MicroLithium 700 Lumen Shop Light

- COB LEDs provide approximately 700 lm light bar/200 lm spot light
- 10-minute low battery warning indicator
- 4-hour run time at the highest brightness; 14-hour run time at the lowest brightness
- 200 lm spotlight run time of approximately 11 hours
- Variable brightness switch (0–100%) gives the ability to select the right amount of light for every situation
- Individual switches for each light provides faster, easier interaction
- Hook provides five locked positions
- Works with Snap-on® CTB8172BK or CTB8174 Battery Pack (not included; sold separately)
- IP64 resistant to water and dust infiltration



CTLSH861

### CTLED8850 \* 18 V MonsterLithium LED Cordless Work Light

- Super-bright 500 lm light output
- Dual reflector system—beam or floodlight
- 120° rotating head
- Dual brightness settings (500 and 250 lm)
- 8-hour minimum run time (high setting)
- Tempered-glass lens
- Resists automotive fluids
- Low battery indicator (10 minutes)
- Works with CTB6172, CTB7172, CTB8172, CTB8172BK and CTB8174 batteries
- Battery and charger are not included



CTLED8850

Colors Available



\* R O G  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



• Do not remove or bypass the grounding prong on any electrical plug  
• Read safety precautions on pages W1 to W4

## LIGHTING: POWER TOOL (RECHARGEABLE)



CTLFD8850A

### CTLFD8850A 18 V 3,500 Lumen Cordless Floodlight

- 50-hour run time at minimum brightness; 2-hour run time at maximum brightness
- Operates on a standard 18 V CTB8185 Snap-on® cordless tool battery (not included; sold separately)
- USB-out port allows the user to charge other electronic devices while working
- Robust housing—built with an aluminum heat sink—is able to withstand demanding environments
- Large, well-defined handles for maximum portability
- Lighting element pivots up to 100° from the resting point for ease of use
- Magnetic feet are available as accessory items

## LIGHTING: TOOL STORAGE

- Robust, updated stylized design makes these light bars a must-have accessory for every tool storage solution
- Improved lighting efficiency, distribution and between 1,297–3,100 lm output
- Remote control options are available to maximize the technician’s freedom and mounting locations
- Mount using the extremely strong, built-in rare earth magnets located on the back of the tool

| Stock No. | Description  | Lumens | Power      | Power, Volts     |
|-----------|--|--------|------------|------------------|
| ECTSA109  | 1-1/2' Tool Storage Light Bar with Magnetic Switch | 1,297  | 14.8       | 100–240/60 (1.5) |
| ECTSA289  | 4' Tool Storage Light Bar with Magnetic Switch     | 2,850  | 9 – Corded | 110              |
| ECTSA319  | 5' Tool Storage Light Bar with Magnetic Switch     | 3,100  | 9 – Corded | 110              |



ECTSA289

- ECTSA109 1-1/2' Tool Storage Light Bar with Magnetic Switch
- ECTSA289 4' Tool Storage Light Bar with Magnetic Switch
- ECTSA319 5' Tool Storage Light Bar with Magnetic Switch

- Magnetic switch allows the light to turn on/off depending on the door position—one-handed operation



ECTSB022

### ECTSB022 250 Lumen Tool Storage Drawer Light

- Two magnets on the back of the light and one on the side
- Sensor transmits a signal to turn the light on when the drawer opens, off when the drawer closes
- Can be used inside or outside the drawer
- Button on the sensor can turn the light on and off manually

**ECFH1 AA/AAA Flashlight Holder (Blue-Point®)**

- 5/8" cup
- Magnetic base offers a secure hold
- Ball joint permits 360° rotation and pivots 70°
- Light beam of the inserted flashlight is easily directed and remains in place once positioned



ECFH1

**ECFH2 D-Cell Flashlight Holder (Blue-Point®)**

- 1-5/16" cup
- Magnetic base offers a secure hold
- Ball joint permits 360° rotation and pivots 70°
- Light beam of the inserted flashlight is easily directed and remains in place once positioned
- For D-cell flashlights



ECFH2

**ECFH3 C-Cell Flashlight Holder**

- 1" cup
- Use with C-cell size flashlights with a body width of 3/4–1-1/8"
- Magnetic base offers a secure hold
- Ball joint permits 360° rotation and pivots 70°
- Light beam of the inserted flashlight is easily directed and remains in place once positioned



ECFH3

**ECFLC081-1 Charging Cradle**

- Charging Cradle for ECFLC081-RD

**ECFLC081-2 AC Adaptor**

- AC Adaptor for ECFLC081-RD

**ECFLC081-3 DC Adaptor**

- DC Adaptor for ECFLC081-RD

**ECFLPRA0 Wireless Charging Base**

- Wireless dynamic charging system allows partial recharging
- Only works with Snap-on® wireless lamps and accessories
- Recharges using the bidirectional USB-C connection
- Equipped with built-in magnets
- Charge external devices with the built-in USB charging port, output: DC 5 V 1 A
- Replacement charger: ECFLPRA0-7 (5 V 3.5 A USB-C Charger)



ECFLPRA0

**ECU300 Magnetic Utility Light Clamp**

- Features an expandable clamp on a magnetic base
- Can be used with any Snap-on® fluorescent utility lights
- Use with any "D" cell flashlight



ECU300

**EC-USB-C-1A Type-C Charger**

- 1 A charger with a USB-C recharge cable

**EC-USB-C-2A**

**EC-USB-B-1A**

**EC-USB-B-2A**

**YA537 Pocket Magnifier (Blue-Point®)**

- Folding magnifier includes dual 3x lenses for combined 6x effect



YA537

**EC267D Extension Cord (Blue-Point®)**

- 16/3-gauge SJTW cord stays flexible in cold weather and is oil and water resistant
- Length: 25'



EC267D

**EC268D Extension Cord (Blue-Point®)**

- 16/3-gauge SJTW cord stays flexible in cold weather and is oil and water resistant
- Length: 50'



EC268D



• Do not remove or bypass the grounding prong on any electrical plug  
 • Read safety precautions on pages W1 to W4

## FLUID MAINTENANCE: FLUID TRANSFER SERVICE EQUIPMENT

### Fluid Evacuators and Transfer Pumps

Easily remove engine oil, transmission fluid, coolant, brake and differential fluids. Unit creates a vacuum, providing a clean, fast and simple way to evacuate or dispense a wide range of fluids. 8 L auto shutoff prevents overflow. 2.3 gal (8.8 L) total capacity. Durable polyethylene construction is impervious to automotive and household chemicals.



VAC201



VAC300



FLUIDPUMP

#### VAC201 Manual Fluid Evacuator/Dispenser (Blue-Point®)

- No electrical or compressed air is required
- Sturdy base with an exterior pump helps prevent tipping
- Complete system includes a manual, fluid evacuator, main hose assembly (5/16 I.D. x 54" long) and (2) rigid dipstick tubes for engine oil removal
- 3/16" I.D. x 34" and 1/8" I.D. x 34"

#### VAC300 Pneumatic Fluid Evacuator (Blue-Point®)

- Quiet operation results from an air muffler on the Venturi pump
- Unit can be used away from an air source by creating a vacuum, closing both shut-off valves and transporting unit to the job
- Fluid evacuates by connecting the tubing and releasing the valves
- Complete system includes air-operated fluid evacuator with Venturi pump and air shut-off valve on the base, a main pour spout connector, main hose assembly (5/16" I.D. x 58" long) and a brake bleeding hose assembly with inline fluid control 1/4" I.D. x 60" long and two rigid dipstick tubes for engine oil removal
- 3/16" I.D. x 34" and 1/8" I.D. x 34"

#### FLUIDPUMP Fluid Transfer Pump (Blue-Point®)

- Transfers or siphons all types of fluids, including coolant, oil, transmission fluid and water
- Used to inflate sports balls, bicycle tires, flotation devices and more
- Durable, non-corrosive polyethylene
- Includes a pump, (2) 4' lengths of fluid hose, (2) intake/discharge hose connectors, an air pressure hose, dipstick tube and dipstick/fluid hose adaptor

## LUBRICATION: OIL FILTER



YA4050B



YA4275



YA4250



YA4022



YA4274A

### Filter Pliers/Filter Sockets

#### YA4050B Oil Filter Pliers (Blue-Point®)

- Grips oil filters for easier removal
- Jaws are offset 20° from handle to increase accessibility
- Jaw opening range of 2-1/4"-4"
- 12" long

#### YA4275 † Oil Filter Pliers (Blue-Point®)

- For use on filters 4-1/4"-7" (108-178 mm) diameter
- Spring action size adjustment assures a solid grip on the filter
- Offset handle offers increased accessibility
- Heavy-duty forged levers
- Cushioned grips for comfort
- Industrial black finish
- 19" overall length
- Applications include truck, tractor and high-torque diesel engines

#### YA4250 Oil Filter Pliers (Blue-Point®)

- Slip-joint design provides a jaw opening range of 3-5/8-6"
- 12" long

#### YA4274A Oil Filter Pliers (Blue-Point®)

- For use on filters 2-1/2"-5-1/4" diameter
- Offset handle offers increased accessibility
- Heavy-duty forged levers
- Cushioned grips for comfort
- Industrial black finish
- 13-1/2" overall length

#### YA4022 † 23" Long Reach Oil Filter Pliers (Blue-Point®)

- Removes stubborn and overtightened oil, fuel and hydraulic filters, plus fuel sending units and more
- Easy to maneuver around hot exhaust manifolds
- 23" long, with tremendous holding power
- 32 teeth jaws adjust to two sizes for an optimum grip



OFSKIT



A106



OFS3847



S3624



OFSH1



OFS36CAP



OFS74

## Filter Pliers/Filter Sockets

### OFSKIT 4 pc Oil/Fuel Filter Socket Set

- Includes A127 and A106 Oil Filter Sockets, S3624 Filter Flip Socket and A129 Cummins® Diesel Fuel Filter Socket in a storage tray

#### Applications:

- A127 removes and installs 27 mm (1-1/16) oil filters on 2003 and later Mercedes-Benz® 1.8 L 4-cylinder engines
- Aftermarket oil filters with one nut at the top of the canister
- A129 Cummins® Diesel Fuel Filter Socket is used for removing and installing fuel filter housings found on 2002–later Dodge® Ram® trucks with the 24-valve Cummins® diesel engine
- A106 Low Profile Oil Filter Socket
- GM® Ecotec®, 2.0, 2.2 and 2.4 L four-cylinder engines
- Saturn®: L-series (2001), Ion and Vue (2002–later)
- GM®: Cavalier, Sunfire®, Grand AM, Sonoma, S10, Alero (2002–later)
- Malibu®: 2002–2006
- Pontiac®: G6 and Solstice® (2006)
- Chevrolet®: HHR, Cobalt®, Cobalt® SS (2006)
- Saab®: Some general applications
- S3624 Filter Flip Socket removes and nstalls all three filter caps on Ford® 6.0L Power Stroke® diesel-powered vehicles such as Super-Duty® Series pickups, Econoline® vans and Excursions
- Used for removal and installation of the oil filter cap plus primary and secondary fuel filter caps

#### Additional 24 mm applications:

- Buick®: VVT-V6 Rendezvous Ultra, LaCrosse® CSX
- Cadillac®: VVT-V6 CTS, STS, SRX
- Saturn®: L-3000 V6

#### Additional 35/36 mm applications:

- Audi®/Volkswagen®: VR6 engine
- BMW®: 6, 8 and 12 cylinder engines
- Mercedes-Benz®: diesel engines
- Mini-Cooper®
- Volvo®: 40 and 50 series, XC90 with 3.2L 6-cylinder engine

### A106 3/8" Square Drive 6-Point SAE 1-1/4" Oil Filter Socket

- Low-profile (1.68 O.D. x 1.04" long) 6-point design to remove the plastic oil filter on GM® Ecotec®, 2.0 L, 2.2 L and 2.4 L 4 cylinder engines
- Features the Flank Drive® wrenching system
- Chrome finish for longer life and easy cleanup

### A127 Oil Filter Socket

- Remove and install 27 mm (1-1/16") oil filters on 2003 and later Mercedes-Benz® 1.8 L 4 cylinder engines
- Additional applications: aftermarket oil filters with 1" nut at the top of canister
- 1-1/16" wrench size, 3/8" drive

### OFS3847 3/8" Drive 14-Point Oil Filter Socket

- 3/8" drive 14-point oil filter socket to be used with a ratchet or breaker bar to free stuck oil filters
- Manufactured from special steel with higher alloy content

### S3624 3/8" Square Drive Metric 24/36 mm Filter Flip Socket

- One tool will remove/install all three filter caps on Ford® 6.0 L Power Stroke® diesel-powered vehicles such as Super-Duty® Series pickups, Econoline® vans and Excursions
- Used for removal and installation of the oil filter cap, primary and secondary fuel filter caps
- Not for impact use
- Requires optional 3/8" drive extension (FX1 or FXWP1 1-1/2" long)

#### 24 mm applications:

- Buick® vehicles: VVT-V6 Rendezvous Ultra, LaCrosse® CSX
- Cadillac® vehicles: VVT-V6 CTS, STS, SRX
- Saturn® vehicles: L-3000 V6

#### 35/36 mm applications:

- Audi®/Volkswagen®: VR6 engine
- BMW®: 6-, 8- and 12-cylinder engines
- Mercedes-Benz®: diesel engines
- Mini-Cooper®
- Volvo®: 40 and 50 Series, XC90 with 3.2L 6-cylinder engine
- Nickel-chrome finish

### OFSH1 3/8" Drive 65 mm Oil Filter Socket

- Socket works on very common 65 mm oil filter, part numbers 15400-PLM-A01 and 15400-PLM-A02
- 3/8" Drive

### OFS36CAP 36 mm Oil Filter Housing Socket

- Oil filter housing socket for Audi®, Volkswagen® and Porsche® vehicles
- Remove or install oil filter housing on 2.0L I4 Turbo TSI/FSI, 3.0L V6 Supercharged, 3.6L V6, and 6.3L V12 engines

### OFS74 74 mm Oil Filter Housing Socket

- Removes/installs oil filter housings on multiple Volkswagen® and Mercedes-Benz® model engines



- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## LUBRICATION: OIL FILTER



YA995



A91F



YA342C



OFW12418



GA333C

### Oil Filter Wrenches

| Stock No.   | Size     | Steps | Flats | Style | Square Drive, inches | Application   |
|-------------|----------|-------|-------|-------|----------------------|---|
| YA995*‡     | 3"       | 2     | 15    | Cup   | 3/8                  | Fram®, AC®, Wicks®, NAPA®, Sears®, Motorcraft®, Hastings® and Baldwin® Filters; Has 1" External Hex |
| YA996*‡     | 76/80 mm | 2     | 14/15 | Cup   | 3/8                  | OEM® and Purolator® Filters on VW®, Nissan® and Toyota®; Has 1" External Hex                        |
| A91F        | —        | —     | —     | —     | —                    | Large Diameter Oil Filters 1-6"; Includes Both 3/8 and 1/2" Square Drives                           |
| YA342C*     | —        | —     | —     | Band  | 1/2                  | For 4-5/8-5-1/4" Diameter Filters   |
| OFW12418*‡  | —        | —     | —     | Band  | 1/2                  | 4-1/8-4-21/32" (105-118 mm) Oil Filters   |
| OFW125532*‡ | —        | —     | —     | Band  | 1/2                  | 5-5/32-5-21/32" (130-143 mm) Oil Filters; Similar to OFW12418                                       |
| OFTOY468    | 65 mm    | 1     | —     | Cup   | 1/2                  | Lubrication: Removes/installs Oil Filters   |
| OFWTOY3KTA  | —        | —     | —     | —     | —                    | Toyota®   |
| OFWTOY4A    | —        | —     | —     | —     | —                    | Fits the Housing That Holds All 4-Cylinder Toyota® and Lexus® Cartridge and Element Filters         |
| OFWTOY68A   | —        | —     | —     | —     | —                    | Fits the Housing That Holds All Toyota® and Lexus® Cartridge and Element Filters                    |
| GA333C*     | —        | —     | —     | Band  | Handles              | 2-7/8-3-1/4" Diameter Oil Filters   |
| GA340A*     | —        | —     | —     | Band  | Handles              | 3-1/2-3-7/8" Diameter Oil Filters; Similar to GA333C  |
| YA341A*     | —        | —     | —     | Band  | Handles              | 4-1/8-4-7/16" Diameter Oil Filters; Similar to GA333C   |
| FW7614A*    | 76 mm    | 1     | 14    | Cup   | 3/8                  | Champion®, Champ®, Lee®, Purolator, Mopar®, Volkswagen®, Porsche®, BMW®, Mercedes-Benz®             |

\*Blue-Point®



OFTOY468

### Oil Filter Wrenches

#### OFTOY468 Oil Filter Wrench (Blue-Point®)

- Oil filter wrench for cartridge type filters found on Toyota®, Lexus® and Scion® vehicles
- Will withstand loads required to remove over tightened or frozen oil filter covers
- 1/2" square drive and 24 mm (15/16") hex
- 65 mm across flat



OFW4KT

### Swivel Oil Filter Wrenches

#### Oil Filter Wrench (Blue-Point®)

- Swivel handle makes wrench easy to turn in tight spots
- Handle swivels more than 180°
- Tension adjusting nut allows swivel pressure to be regulated
- No-slip grip pattern within band grabs onto oil covered filters with ease

#### OFW4KT 4 pc Oil Filter Wrench Set (Blue-Point®)

- Includes (4) swivel oil filter wrenches

#### OFW1 Oil Filter Wrench (Blue-Point®)

- Fits small oil and fuel filters 2-3/8-2-5/8"

#### OFW2 Oil Filter Wrench (Blue-Point®)

- Fits smaller filter size 2-7/8-3-1/4" on many US and imported vehicles

#### OFW3 Oil Filter Wrench (Blue-Point®)

- Fits most popular 3.625" filters 3-1/2-3-7/8"

#### OFW4 Oil Filter Wrench (Blue-Point®)

- Fits most tractors and other farm implement equipment 4-1/8-4-1/2"

#### OFW4KT-1 Vinyl Holder (Blue-Point®)

- Vinyl Holder for OFW4KT



OFWHD3KT

#### OFWHD3KT Swivel Gripper Heavy-Duty Oil Filter Wrench Set (Blue-Point®)

- Tough, stainless steel band with bonded textured coating for superior non-slip gripping power
- Swivel-grip handle makes it easy to turn in tight spots
- Handles made of tubular steel for increased strength and come with durable no-slip double dipped grips
- Size range and part number is laser marked on the tool
- Wrenches are stored in a vinyl holder

#### OFWHD1 Truck Swivel Gripper (Blue-Point®)

- Truck filters for Cummins®, Detroit Diesel® and others with a range of 4-5/16-4-3/4"

#### OFWHD2 Tractor Swivel Gripper (Blue-Point®)

- Truck filters for Cummins®, Detroit Diesel® and others with a range of 4-3/4-5-3/16"

#### OFWHD3 Heavy-Duty Swivel Gripper (Blue-Point®)

- For Caterpillar® engines and large filters with a range of 5-1/4-5-3/4"

#### OFWHDHLDR Vinyl Holder (Blue-Point®)

- Vinyl holder for OFWHD3KT kit



OFC14KT



OFC68-14



OFC76-14



OFC76148015



OFCOA1



OFCOA2



OFCOA2KT



OFCADPTR

### Oil Filter Wrenches

#### OFC14KT 14 pc Heavy-Duty End Cap Filter Wrench Set (Blue-Point®)

- Butt plate located on outside of the wrench provides more clearance and is heat treated to resist square drive round out
- Wire welds used in addition to spot welds for added strength
- Set includes new plated spider wrench with 61–124 mm range
- Removable adaptor provides lower clearance in tight spots

#### OFC65-14 65 mm 14 Flute Filter End Cap Wrench (Blue-Point®)

- Used on Toyota®, Lexus®, Subaru®

#### OFC6567-14 65–67 mm 14 Flute Filter End Cap Wrench (Blue-Point®)

- Used on ACDelco®, Fram®, Honda®, Purolator®, Toyota®

#### OFC68-14 68 mm 14 Flute Filter End Cap Wrench (Blue-Point®)

- Used on Mitsubishi®, Subaru®

#### OFC7374-14 73–74 mm 14 Flute End Cap Filter Wrench (Blue-Point®)

- Used on Toyota® and Lexus®
- Each end cap is laser marked on inside and outside for easy identification

#### OFC74762-15 74–76.2 mm 14 Flute Filter End Cap Wrench (Blue-Point®)

- Used on Fram®, Motorcraft®

#### OFC76-14 76 mm 14 Flute Filter End Cap Wrench (Blue-Point®)

- Used on ACDelco®, Purolator®, STP®, Mazda®/Ford®, older Dodge® Sprinters, BMW®, Mercedes®, Harley-Davidson®

#### OFC76-30 76 mm 30 Flute Filter End Cap Wrench (Blue-Point®)

- Used on Motorcraft®

#### OFC76148015 76 mm 14 Flute/80 mm 15 Flute Filter End Cap Wrench (Blue-Point®)

- Wire welds used in addition to spot welds for added strength

#### OFC76148015 76 mm 14 Flute/80 mm 15 Flute Filter End Cap Wrench (Blue-Point®)

- Used on ACDelco®, Purolator®, STP®, Mazda®/Ford®, older Dodge® Sprinter®, BMW®, Mercedes®, Harley-Davidson®, Honda®, Nissan®, Purolator®, Hyundai®, Kia®, Scion®, Subaru®

- Each end cap is laser marked on inside and outside of the tool for easy identification

- Butt plate located on outside of wrench, providing more clearance and is heat treated to resist square drive round out

- Wire welds used in addition to spot welds for added strength

#### OFC86-14 86 mm 14 Flute Filter End Cap Wrench (Blue-Point®)

- Used on newer Dodge® Sprinter®, Mercedes®, Jeep® Cherokee®

#### OFC86-16 86 mm 16 Flute Filter End Cap Wrench (Blue-Point®)

- Used on Volvo®, BMW®

#### OFC884-15 88.4 mm 15 Flute Filter End Cap Wrench (Blue-Point®)

- Used on Hyundai®, Kia®

#### OFC93-15 93 mm 15 Flute Filter End Cap Wrench (Blue-Point®)

- Used on ACDelco®, Fram®, Purolator®, Nissan®

#### OFC93-36 93 mm 36 Flute Filter End Cap Wrench (Blue-Point®)

- Used on Motorcraft®

#### OFCOA1 58–110 mm Filter Spider Wrench (Blue-Point®)

- New silver plated wrench with 58–110 mm range

#### OFCOA1KT 58–110 mm Filter Spider Wrench with Adaptor (Blue-Point®)

- Removable adaptor provides lower clearance in tight spots

#### OFCOA2 61–124 mm Spider Filter Wrench (Blue-Point®)

- Silver plated wrench with 61–124 mm range

#### OFCOA2KT‡ 61–124 mm Spider Filter Wrench with Adaptor (Blue-Point®)

- Plated spider wrench with 61–124 mm range
- Removable adaptor provides lower clearance in tight spots

#### OFCADPTR‡ Adaptor 3/8–1/2" (Blue-Point®)

- Removable adaptor provides lower clearance in tight spots

#### OFCASE‡ Plastic Case (Blue-Point®)

- Storage case for OFC14KT

### Filter Pliers/Filter Sockets

#### OFA36CAP 36 mm Oil Filter Housing Socket

- Used on Audi®, Volkswagen®, Porsche®
- Audi®, Volkswagen®: 2001–2014 2.0 L I4 Turbo TSI/FSI
- Audi®, Volkswagen®, Porsche®: 2005–2014 3.0 L V6 Supercharged
- Volkswagen®, Porsche® 2011–2014 3.6 L V6
- Audi®, Volkswagen®: 2004–2014 6.3 L V12



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# LUBRICATION: GREASE AND OIL



OFA35

## Funnels/Spouts

### OFA35 Oil Funnel Adaptor for OFTOY38

- Made of durable plastic
- Custom-fit to the valve cover filler neck
- 2 pc set includes OFA35-1 short adaptor with male threads and OFA35-2 elbow adaptor

### OFA36 Chrysler® Dodge® OFKIT Adaptor

- Application include various 2011–2015 Chrysler® Town and Country®, Dodge® Avenger®, Challenger®, Charger®, Durango®, Grand Caravan® and Journey®, and Jeep® Grand Cherokee® and Wrangler® models

- Made of durable ABS plastic
- Used with the funnel from OFKIT—fastens and seals to the filler neck preventing spills
- Open slot in OFKIT will accommodate this adaptor

### OFUN36 Oil Funnel for Chrysler® and Dodge® Vehicles

- Made of durable ABS plastic
- Creates a custom fit to valve covers and filler necks
- Helps prevent messes when filling engine with oil
- Application include various 2011–2015 Chrysler® Town and Country®, Dodge® Avenger®, Challenger®, Charger®, Durango®, Grand Caravan® and Journey®, and Jeep® Grand Cherokee® and Wrangler® models

### OFAEURO1 Valve Cover Adaptor

- Specifically designed to attach to valve covers to avoid spills due to internal baffle of the valve cover
- Use in conjunction with the OFKIT set
- Machined from aluminum with stainless steel locking tab
- Made in the USA

### Applications:

- Various BMW® model vehicles
- 2006–2013 Dodge® Sprinter® 2.7L and 3.0L V6 CRD vans
- Various Mercedes-Benz® vehicles
- 2008–later Porsche® Cayenne® vehicles and 2010–later Panamera® vehicles
- 1.8L, 1.9L TDI, 2.0T, 2.8L, 3.0L, 3.2L, 3.6L and 4.2L Volkswagen® and Audi® engines
- 2.5L Volvo® engines
- 550 and 520 Teledyne® engines found in Beechcraft® and Cessna® aircraft

### OFFM OFFM Threaded Oil Filler

- Prevents any unwanted mess; fastens and seals onto the filler neck
- Made of durable ABS plastic
- Used on newer Ford® and Mazda® vehicles equipped with a 4-cylinder engine



OFA36



OFUN36



FUNN1



FUNN2



FUNN15



GA96B



OF42

## Funnels/Spouts

| Stock No. | Size    | Neck Style | Color  |
|-----------|---------|------------|--------|
| FUNN1     | 1 pint  | Small      | Orange |
| FUNN2     | 1.25 qt | Large      | Blue   |
| FUNN15    | 1.5 qt  | Large      | Red    |

\*Blue-Point®

### GA96B † Transmission Filler (Blue-Point®)

- 8-1/2" oval funnel with a filter screen
- 30" long
- For 10CT curved tooth file

### OF42 Oil Funnel Adaptor

- Made of durable ABS plastic
- Used with the funnel from OFKIT—fastens and seals to the filler neck preventing spills
- Open slot in OFKIT will accommodate this adaptor
- Fits Subaru® models with a threaded oil cap (except Tribeca®)
- Also fits 2013 Subaru® BRZ®; Scion® FR-S® vehicles



YA734A

YA728A



YA4190A



GA471



GA472



GA473A

## Manual Grease Guns

| Stock No. | Specifications | PSI    | Loading                        | Capacity                           | Flexible Hose | Rigid Extension | Nozzle  |
|-----------|----------------|--------|--------------------------------|------------------------------------|---------------|-----------------|---------|
| YA734A    | —              | —      | —                              | —                                  | —             | —               | —       |
| YA728A    | Lever          | 6,000  | Bulk or Cartridge              | 16 oz Bulk and 14-1/2 oz Cartridge | 18"           | 6"              | —       |
| YA4190A   | Mini           | —      | Cartridge                      | 3 oz                               | —             | —               | —       |
| GA471 †   | Pistol Grip    | 4,500  | Bulk, Cartridge or Filler Pump | 3 oz                               | —             | 5-1/2"          | 8-1/4"  |
| GA472 †   | Pistol Grip    | 5,000  | Bulk, Cartridge or Filler Pump | 14 oz                              | —             | 3-1/2"          | 13-1/4" |
| GA473A †  | Lever          | 10,000 | Bulk, Cartridge or Filler Pump | 14 oz                              | —             | 5-3/8"          | 19-1/4" |

\*Blue-Point





## Air Powered Grease Guns

| Stock No. | PSI   | Air Operating PSI | Pump Ratio | Loading                        | Capacity        | Flexible Hose | Rigid Extension |
|-----------|-------|-------------------|------------|--------------------------------|-----------------|---------------|-----------------|
| YA771B    | 6,000 | 35-80             | 40:1       | Bulk, Cartridge or Filler Pump | 14 oz Cartridge | 18"           | 6"              |
| YA772B    | 4,000 | 40-100            | 40:1       | Bulk, Cartridge or Filler Pump | 14 oz Cartridge | 18"           | 6"              |

\*Blue-Point

## Dispensing Accessories

### YA7500 11 pc Grease Dispensing Accessory Pack

- Includes YA760–YA750 in a storage tray

### YA758 Flex Whip Hose

- For hand-operated grease guns only; 18" long

### YA752 Flex Whip Hose

- 18" long version of YA751

### YA751 Flex Whip Hose

- For powered and hand-operated grease guns
- 4,500 maximum PSI; 12" long

### YA754 Swivel Coupler

- Swivels 360°; locks in position every 45°

### YA755 Coupler

- Fits all hydraulic type grease fittings

### YA753 Heavy-Duty Coupler

- Fits all hydraulic-type grease fittings

### YA750 Needle Nozzle

- 2-3/4" long

### YA757 Angle Lube Adaptor

- 4-1/2" long with a 90° head allows fast and complete lubrication of the steering and suspension systems on late-model FWD vehicles

### YA761 Needle Nozzle Coupler

- Same as the YA750 only with a locking sleeve adaptor for quick attachment to a hydraulic coupler

### YA756 Extension Coupler

- Lubricates recessed fittings; 6" long
- Locking sleeve adaptor allows quick attachment to a hydraulic coupler of any control valve or lever gun

### YA760 High-Pressure Universal Swivel

- 1/2"-27 male x 1/4" NPT(m) threads
- 5,000 PSI maximum working pressure

### YA747 Grease Control Valve

- 1/4" NPT(f) inlet; 7,500 maximum PSI
- Includes a 6" extension tube and YA753 coupler

### YA801 ‡ Needle-Type Adaptor (Blue-Point®)

- 4-7/8" long adaptor for universal joint fittings, water pumps and metal-covered springs

### GA472-2 Grease Fitting Coupler

- Push-on design with neoprene nipple and ball

- Features a spring check valve

### GA472-3 Flexible Polybraid Hose

- 12" long

### GA472-9 Flexible Polybraid Hose (Blue-Point®)

- Oil, grease and solvent resistant with brass end fittings



YA7500



YA747



YA801



YA762



UFREE1

## Dollies

### YA762 Band Dolly

- Provides mobility for 25–50 lb original refinery containers
- Includes jam swivel casters and screw clamp for a secure adjustment

## Grease Fitting Cleaner

### UFREE1 ‡ Grease Fitting Cleaning Tool

- Quickly and easily frees up joints and fittings for proper greasing and lubrication
- Injects light-viscosity oil into the grease joint via the grease fitting to break up and remove dirt, rust and debris
- Pump in new grease after freeing the joint
- Includes an injection cleaning tool, 4-3/4" long flexible hose to access tight places and a storage case



- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**LUBRICATION: GREASE AND OIL**



YA746



YA745A

**Oil Spray and Suction Guns**

**YA746 Oil Spray Gun**

- Siphon-type spray gun for spraying lubricating oils, cutting oils and cooling oils
- Includes a 6' vinyl suction hose with a strainer

**YA745A Oil Spray Gun (Blue-Point®)**

- 16 oz capacity
- Fast, clean method for removing or adding transmission and gear oil
- Special follower is impervious to oil, grease and water



PBT2120



PBT5X29

**Transmission Tables**

**PBT2120 Drawer**

- Optional drawer
- 20 x 20 x 5"

**PBT5X29 Transmission Table**

- 5' long
- 1,000 lb. load rating



YA743



YA744



YA749

**Drains**

**YA743 Waste Oil Drain**

- Fits standard 16-gallon drum
- Includes a float gauge in a drum cover, telescopic drain bowl adjustable from 42-3/4-70" and a roll-around base
- Drum is not included

**YA744 Pedestal Waste Oil Drain**

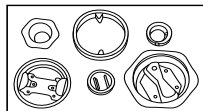
- Stand telescopes from 47-72"
- Drain bowl holds 4-1/2 gallon of oil
- Includes a hinged splash lid, 2" NPT male adaptor bushing and spring-loaded valve

**YA749 Drain**

- 24-1/2" dia
- Fits 6" or larger drain bowls
- Prevents spillage when removing transmission pans



A172A



**Drum Plug Socket**

**A172A 1/2" Drive Drum Plug Socket**

- One socket removes virtually all screw-in drum plugs or caps
- Spring-loaded inner wrench handles smaller plugs and recesses automatically when removing large plugs
- For use with a 1/2" drive ratchet or impact wrench

## Oilers

### OC5A ‡ Oiler (Blue-Point®)

- 5-1/2" small pressure oiler has a long, tapered spout with a screw on tip
- 1-7/8" O.D.
- Includes base holder

### OCF5 ‡ Oiler (Blue-Point®)

- Similar to OC5A Oiler with a flexible spout



OC5A



OCF5

## Bearing Packers

### A180A Manual Bearing Packer

- Simultaneously pressure packs inner and outer wheel bearings 3/4" minimum I.D. and 4" maximum O.D.
- Use with pressurized lube equipment or a hand grease gun
- Includes a dust cover



A180A



YA470C



### YA470C Manual Bearing Packer (Blue-Point®)

- Packs 50–65 bearings with one grease filling
- Applies manual pressure to flush and pack a bearing with grease
- Includes a dust cover
- 4-1/2" high

### YA742 Manual Bearing Packer

- Unit features a large packer head
- Handles bearings to 9-1/2" O.D. and minimum 9/16" I.D.
- Includes an adaptor to service smaller bearings of 1-3/4" O.D.



YA742



YA741

### YA741 Bearing Packer

- Clamps securely to any 25–50 lb original refinery container
- Handles any ball or roller bearing with 5/8–1-1/2" ID. and 3-1/4" maximum O.D.
- Primes and pumps even when using heavy grease at low temperatures
- Follower plate prevents funneling of grease
- Hose and grease gun are not included

## Grease and Gear Oil Pumps/Manual

### YA739 Manual Gear Oil Pump

- Fits any 25–50 lb original refinery container
- Delivers 1 oz per stroke using SAE® 90 gear oil at 70 °F
- Includes 5' of 1/2" low-pressure hose with a dispensing nozzle



YA739

### YA737 Manual Operating Grease Pump

- Clamps securely to any 25–50 lb original refinery container
- Handles any ball or roller bearing with 5/8–1-1/2" I.D. and 3-1/4" maximum O.D.
- Primes and pumps even when using heavy grease at low temperatures
- Follower plate prevents funneling of grease



YA737

### YA738 Manual Gear Oil Pump

- Fits any 120 lb original refinery container
- Powerful 50:1 ratio pump with 20 in<sup>3</sup> displacement
- Includes a roll-around base, straight swivel, 7' of 1/4" high-pressure hose, quick-connect air coupler, follower plate, YA747 grease control valve and a YA760 universal swivel



YA738



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## LUBRICATION: GREASE AND OIL



### Grease Pumps/Air

#### YA735 Air Operated Grease Pump

- Fits any 120 lb original refinery container
- Powerful 50:1 ratio pump with 20 in<sup>3</sup> displacement
- Includes a roll-around base, straight swivel, 7' of 1/4" high-pressure hose, quick-connect air coupler, follower plate, grease control valve and a universal swivel

#### YA736 Air Powered Grease Pump

- Fits any 20–50 lb original refinery container
- Powerful 50:1 ratio pump utilizes 20 in<sup>3</sup> displacement
- Includes 6' of 1/4" high-pressure hose, quick-connect air coupler, follower plate, YA747 grease control valve and a YA760 universal swivel

#### YA759 Air Powered Grease Pump

- 50:1 ratio pump
- Uses a 120 lb container size and handles all grades of lubricant
- Features an internal muffler for quiet operation and a pre-lubricated air motor requiring no external oiler
- Exclusive microlapped hardened steel air valve and seat to assure a long and productive service life, with no packings to wear out
- Shovel-type foot valve adds mechanical priming to normal suction
- Casters offer the unit mobility
- Does not include a barrel

### Oil Filler Cap Tools

#### OCR1 Oil Cap Removal Tool

- Tough nylon material will not damage oil fill caps
- Steel square drive connection for added durability
- Used with a 3/8" drive ratchet
- Use for Chrysler® 300 V6 3.5 L (2010) and Sebring® V6 3.5 L (2010)
- Dodge® Dakota® V8 4.7 L (2000–2007), Durango® V6 3.7 L, V8 4.7 L and V8 5.7 L (2000–2008), Nitro V6 3.7 L (2007–2008) and Ram® 1500 pickup V6 3.7 L, V8 4.7 L and V8 5.7 L (2002–2007)
- Jeep® Commander® V6 3.7 L, V8 4.7 L (2006–2007), Grand Cherokee® V6 3.7 L, V8 4.7 L (1999–2008) and Liberty® V6 3.7 L (2002–2007)
- Mitsubishi® Raider V6 3.7 L and V8 4.7 L (2006–2007)

#### OCR2 Radiator Reservoir and Oil Fill Cap Tool

- Tough nylon material will not damage reservoir and oil fill caps
- Steel square drive for added durability
- Used with a 3/8" drive ratchet
- Used for radiator reservoir caps on VW® vehicles, and oil fill caps on Audi®, Honda®, Toyota®, Chevy®, Ford® and Jeep® vehicles



OCR1



OCR2

## ENGINE SERVICE: SERVICE TOOL

### Engine Calibration and Setup Kit

#### YA871 ‡ Whistle Alert™ (Flexible) (Blue-Point®)

- Insert Whistle Alert™ into any 14 mm spark plug hole, turn the engine over and listen for the whistle to locate top dead center for the compression stroke

#### YA870 ‡ Whistle Alert™ (Rigid) (Blue-Point®)

- Insert Whistle Alert™ into any 14 mm spark plug hole, turn the engine over and listen for the whistle to locate top dead center for the compression stroke
- Rigid version can be used with the YA866 Compression Gauge Extension

#### YA8661 ‡ Spark Plug Hole Adaptor (Blue-Point®)

- Adapts the 14 mm thread on YA866/YAL866 TDC Indicators, the YA868 Compression Gauge Extension and YA865 Engine Lock to accommodate 18 mm spark plug threads

#### YA8662 ‡ Spark Plug Hole Adaptor (Blue-Point®)

- Adapts the 14 mm thread on YA866/YAL866 TDC Indicators and the YA868 Compression Gauge Extension to accommodate 12 mm spark plug threads



YA8661



YA8662

**Timing/Belt Replacement**

**YA9680 Camshaft Pulley Tool**

**(Blue-Point®)**

- Designed to hold the camshaft pulley in place while turning the center shaft bolt
- Extremely useful on transverse mounted V6 engines, such as the Nissan® Maxima®/VG30 engine and Toyota® Camry®/3VXFE and 1MZFE engine
- Rear pulleys on these vehicles are located in close proximity to the shock tower making it difficult to remove/replace the center shaft without this tool

**YA1150 Small-Pin Cam Gear Holder**

**(Blue-Point®)**

- Small diameter (10 mm) grooved pins fit snugly into the small holes in the cam gear
- Long handle with a cushioned grip provides excellent leverage so the cam gear bolt can be tightened or loosened
- Companion tool to YA9680, which has larger diameter pins for cam gears with larger holes

**ML6000 Cam Lock Tool/Timing Gear**

**Clamp (Blue-Point®)**

- Prevents engine damage resulting from incorrect timing
- Maintain valve timing during belt replacement on twin and quad cam engines
- Compact design allows access in transverse engines
- Fits timing gear diameters from approximately 4–6" (101–152 mm)
- Fits gear spacing approximately 0.06–3" (1.6–76 mm)

**CC100 Single Cam Clamp (Blue-Point®)**

- Single cam clamp can be used on engines where the dual clamp ML6000 will not fit
- Compact design permits easy operation in confined engine areas
- Prevents engine damage resulting from incorrect timing
- Maintains valve timing during belt replacement on twin and quad cam engines
- Simple and easy to use
- Manufactured from high-strength industrial polymers which will not corrode or damage engine pulleys

**ML6000COMBO Cam Clamp Set**

**(Blue-Point®)**

- Includes (4) CC100 Single Cam Clamps and (1) ML6000 Dual Cam Clamp in a storage tray

**CCS100 GearLock Single Gear Clamp**

- Used on single and twin cam engines when a dual cam gear lock may not fit
- Perfect tool in situations where individual gears need to be locked, such as when gears need to be removed to replace seals
- Forcing screw and thread insert are made of steel while the body made from high-strength fiberglass-reinforced polymer

**CCS100PK 4 pc GearLock Single Gear**

**Clamp Set**

- Includes (4) CCS100 GearLock Single Gear Clamps
- Used on single and twin cam engines when a dual cam gear lock may not fit
- Perfect tool in situations where individual gears need to be locked, such as when gears need to be removed to replace seals
- Forcing screw and thread insert are made of steel while the body made from high-strength fiberglass-reinforced polymer

**MLS500 GearLock Dual Timing**

**Gear Clamp**

- Can be used on most vehicle makes and models with timing belts
- Used for most dual cam engines to quickly lock and hold valve timing during belt replacement
- Patented "Multi-Point" adjustment for positive fit on all gear diameters
- Horizontal and vertical adjustments provide coverage over wide range of gear diameters
- Spring-loaded GearLock Dual Timing Gear Clamp reduces setup time
- Engagement teeth are made of heat-treated forged steel and frame constructed of high-strength fiberglass-reinforced polymer

**MLS500KT GearLock Timing Gear**

**Clamp Kit**

- Can be used on most vehicle makes and models with timing belts
- Quickly locks and holds valve timing during belt replacement on most dual-cam engines
- Patented "Multi-Point" adjustment for a positive fit on all gear diameters
- Horizontal and vertical adjustments provide coverage over a wide range of gear diameters
- Spring-loaded GearLock Dual Timing Gear Clamp reduces setup time
- Engagement teeth are made of heat-treated forged steel
- Frame is constructed of high-strength fiberglass-reinforced polymer

**YA9730 Timing Belt Tensioner**

**Compressor (Blue-Point®)**

- For 1995–later Toyota® T-100, Tacoma® and 4Runner®
- Turn the square compressor tensioner, then install the locking pin (YA9730-5 included with YA9730)

**CGH1236 Cam Gear Holder**

- Tool holds the hex at the gear hub making removal and tightening of the cam gear bolt easy and accurate
- Hole at the center of the tool allows a socket to be inserted through the tool for removal and replacement of the cam gear bolt
- Fits a large number of vehicles, 18 different models from 1995–2011



YA9680



YA1150



ML6000



CC100



ML6000COMBO



MLS500KT



YA9730



CGH1236



• †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## ENGINE SERVICE: SERVICE TOOLS



YA4660



MCH1280



ML5000



TGH15



TSK5KT



TSK29KT

### Timing/Belt Replacement

#### YA4660 † Camshaft Sprocket Holding Tool (Blue-Point®)

- Pivoting design fits most cam and injection pump gear sizes
- Detent grooves on holding pins give the user a sure hold
- For use as a counter holder when loosening or tightening sprocket retainer bolts

#### MCH1280 Cam Holder for Mercedes-Benz® Vehicles

- This tool ensures that the cam does not move, enabling the tech to complete the job without any worry of needing to re-time the motor
- Unique tool is designed to lock the left intake cam in place while servicing the cam chain drive system
- A lock (located in rear intake cam and bolted to cylinder head) locks the cam and keeps it from rotating, reducing the chance of mistakes in the cam timing
- Keeps related components in time with each other, eliminating the need for additional man hours to hold the cam in place

#### Applications:

- Used on 272 and 273 Series Mercedes-Benz® engines

#### YA9740A-6 Short Push Rod (Blue-Point®)

- For older model YA9740 pullers
- For use on crankshafts that are not drilled to full depth

#### ML5000 DOHC Lock Tool (Blue-Point®)

- Locks cam shaft sprockets in place to preserve engine timing during belt or chain replacement
- Knurled pins on the unit lock on to the groove on the inside of the cam wheel
- Unit base is constructed from anodized aluminum
- Pins are steel
- Works with most import and US cars and light trucks

#### TGH15 Timing Gear Holding Tool (Blue-Point®)

- Securely holds timing gear during removal and installation

#### TSK5KT Timing Service Kit (Blue-Point®)

- Complete kit for timing belt replacement and service
- Securely holds timing gear during removal and installation
- Allows rotation of the cam gear to align valve timing marks
- Single-lever locking design is easy to use
- Slimline design allows maximum access
- Kit includes TGH15 Timing Gear Holding Tool and CC100PK Single Cam Clamp Set

#### TSK29KT Timing Belt Service Kit

- Comprehensive kit for timing belt replacement, crankshaft and camshaft seals, and other engine service
- Dual-cam gear lock is used for most dual-cam engines to quickly lock and hold valve timing during belt replacement
- Single-cam gear locks are used for single-cam engines, twin-cam engines (when dual-cam gear lock may not fit); and in situations where individual gears need to be locked, such as when gears need to be removed to replace seals
- Timing gear holder adjusts and locks onto the cam gear to prevent rotation when removing and installing the mounting bolt
- Crankshaft and Camshaft Seal Tool Kit includes (7) installation mandrels made from high-strength fiberglass-reinforced polymer, suited for 21.5–64 mm seals and (7) bushings suited for 8–20 mm bolts
- Compact puller with unique extracting hooks engage seal for quick removal, and the interchangeable sleeves and mandrels allow easy installation of the new seal

## Oil Pressure/Oil Pump/Oil Temperature

### EEPV507† Engine Oil Pressure Set

- Used on diesel and gasoline engines
- Includes SAE and metric adaptors for cars, trucks, tractors and stationary engines
- Includes a 0–100 PSI (0–700 kPa) gauge assembly
- Technical Support: 1-855-779-8880



EEPV507

### A121A Oil Pressure Sender Switch Socket

- For 1987 and later Ford®, GM® and Chrysler® vehicles
- 1-3/16", 12-point wrench size, 3/8" drive
- 3-11/16" long



A121A



A119C



S6152

### A119C‡ 3/8" Drive SAE 1-1/16" Oil Pressure Sender Switch Socket

- Use for 1986 and earlier Ford®, GM® and Chrysler® vehicles
- 1-1/16" special wrench configuration
- 2-1/16" long

### A120A‡ 3/8" Drive SAE 1-1/16" Oil Pressure Sender Switch Socket

- Use for 1987 and later Ford®, GM® and Chrysler® vehicles
- Can also be used for 1999 Mitsubishi® Eclipse® with the 2 L DOC non-turbo 420A engine
- Same design as A119B but longer
- 1-1/16" special wrench configuration
- 3-11/16" long

### S6152 3/8" Drive 1-1/16" Oil Pressure Sender Switch

#### Crowfoot Wrench

- Use for 1986 and earlier Ford®, GM® and Chrysler® vehicles
- 1-1/16" wrench opening, 3/8" drive

### YA6555 Oil Pump Removal Tool for GM® Vehicles (Blue-Point®)

- Designed to work on most GM® V6 engines
- No need to remove the intake manifold
- Makes removal of the oil pump drive fast and easy
- Applications: GM® 2.8 L V6 (1987–1989), 3.1 L V6 (1990–1994), 3100 V6 (1994–2005), 3.4 L V6 (1999 and later)



YA6555

## Drain Plug

### PMM410A 3/8" Drive Metric 10 mm External Pipe Plug Socket

- 10 mm male square
- For removing or replacing oil pan plug
- 3/8" drive, 11/16" O.D., 1" long



PMM410A



PMP410A

### PMP410A 3/8" Drive Metric 10 mm Internal Pipe Plug Socket

- 10 mm female square
- For removing or replacing standard transmission drain plug
- 3/8" drive, 3/4" O.D., 1" long
- Female pipe plug socket (for Renault® LeCar)

### S5902 Oil/Transmission Plug Box End 17 mm, 6-Point,

#### 21 mm, 12-Point Wrench

- Box ends are 17 mm, 6-point and 21 mm, 12-point
- Designed for VW® transmission drain plugs
- 258 mm long



S5902

### SDMV1 Oil Drain Plug Bit for VW®

- Bit for 1/4" ratcheting screwdriver that can be used to loosen and tighten various VW® oil drain plugs
- Bit designed to engage plastic drain plugs used on 2015+ L4 (2.0L & 1.8L) gas and diesel engines used in various VW® Beetle®, Jetta®, and Golf® models



SDMV1

### S9615A 9/16–15 mm 12-Point SAE/Metric Pan Plug Wrench

- 9/16" and 15 mm 12-point box ends fit most popular GM® drain plugs
- 10° offset at each end for maximum clearance
- Both box ends feature Flank Drive® wrenching system
- 9-23/32" long



S9615A



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## ENGINE SERVICE: SERVICE TOOLS



GDCT16



S6214A



S6132A



YA6611



S6160



FRT12



S6194



S6260

## Cylinder Head

**GDCT16 Combustion Leak Tester**

- Provides an easy and quick way to diagnose engine overheating problems
- Checks for leaks between the combustion chamber and the cooling system
- Tests head and gasket for combustion leaks before removing the radiator
- Double chamber in the testing unit provides a high level of accuracy
- For use on water-cooled gas and diesel engines
- Kit includes a complete test chamber, 16 oz bottle of testing fluid and instructions

**GDCT161 Leak Detector Fluid (Blue-Point®)**

- 16 oz bottle of leak testing fluid for the GDCT16 Combustion Leak Tester

**S6132A 3/8" Drive Metric Valve****Cover Bolt Socket**

- For GM® vehicles, 1976 and later Honda® vehicles and other import and US vehicles
- 10 mm, 12-point wrench size
- Allows access to head bolts, valve and rocker covers and oil pan bolts
- Deep clearance for bolts with extended tip as used on spark plug wire harness
- 3/8" drive; 11/16" O.D.
- 4-1/8" long

**S6160 1/2" Drive 12-Point Metric 12 mm Extra-Long Head Bolt Socket**

- Use on 1986–later Nissan® engines with 12 mm head bolts
- 8" length reaches past the cam and rocker assembly to service head bolts
- Thin-profile socket and shank will reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford®/Mercury® cars such as Mustang®, Crown Victoria®, Lincoln®, Ford® Explorer®, Ranger® and F-150/F-250 trucks

**S6194 1/2" Drive 12-Point Metric 12 mm Head Bolt Socket**

- Used on Toyota® and Nissan® cars and trucks, and Honda® cars with 12 mm head bolts
- 4-1/8" length reaches past the cam and rocker assembly to service the head bolts
- Thin-profile socket and shank reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford® Explorer®, Ranger® and F-150/F-250 trucks

**S6193 1/2" Drive 12-Point Metric 10 mm Head Bolt Socket**

- Use on all 1981 and later Toyota® and Nissan® cars and pickups and 1976 and later Honda® vehicles and other import and US cars with 10 mm head bolts
- Additional uses include drive shaft universal joint attaching bolts for Ford® vehicles
- 4-1/2" length reaches past cam and rocker assembly to service head bolts
- Thin-profile socket and shank will reach through the access hole and past overhead camshaft
- 12-point, industrial finish, 1/2" drive

**S6195 1/2" Drive 12-Point Metric 14 mm Head Bolt Socket**

- Same as S6193 except for 14 mm head bolts

**S6214A 1/2" Drive 14 mm Head Bolt Socket for Subaru® Vehicles**

- 1/2" drive configuration allows for use of proper capacity torque wrenches required for setting specified torque on cylinder head bolts
- Overall socket length is optimized to clear valve train components and maximizes working space between cylinder head and unibody frame
- Additional socket length also provides access for proper capacity torque wrenches to operate while the engine is still in the chassis
- Manufactured from special steel with higher alloy content
- Precision machined and heat treated for optimum strength and durability

**YA6611 Head Handler (Blue-Point®)**

- Convenient and balanced T-handle design helps move cylinder heads faster and easier
- No need to bear hug the cylinder head during movement
- Attached floating washer for increased surface contact
- Comfortable, secure gripping surfaces for hands
- M6 x 1.0 threads
- Package of two

**YA6612 Head Handler (Blue-Point®)**

- Same as YA6611 except has 1/4" x 20 threads
- Package of two

**YA6613 Head Handler (Blue-Point®)**

- Same as YA6611 except has M8 x 1.25 threads
- Package of two

**FRT12 † Three-Valve Insert Kit for Ford® Vehicles (Blue-Point®)**

- Repairs cylinders without removing the head
- Custom guide, tap and drill for quick and simple repair of damaged threads
- Unique insert installer makes the job quick and easy
- Works on three-valve 5.4 L and 6.8 L engines built before 10/9/2007
- Also works on three-valve 4.6 L engines built before 11/30/2007 found on many 2004–2008 Ford®, Lincoln® and Mercury® vehicles
- Set includes tap, core drill, guide, insert installer, insert and storage case

**S6260 1/2" Drive 12-Point SAE****1/2" Heavy-Duty Spicer® Drive Impact Socket**

- For removal of heavy-duty Spicer® drive shaft bolts that have 1/2" fasteners found on Kenworth® and Peterbilt® trucks, and many other heavy-duty applications
- 8" long

**YA6610 6 pc Head Handler Set**

- Includes (6 pc) (2) head handlers (6 x 1.0 threads), (2) head handlers (1/4" x 20 threads) and (2) head handlers (8 x 1.25 mm threads)



## Fuel System Maintenance

### S6222 Oil Rail Socket

- Designed to aid the removal/installation of the ball/cup from the high-pressure oil rail to service the o-rings
- Previously only repairable by replacing the entire Ford® OEM High-Pressure Oil Manifold as a unit, now allows manifold rebuilds for a fraction of the cost



S6222



S6192A



CJ113B



CJ117C



CJ147A



ADT30KT



YA1350

## Power Steering/Alternator/Water Pump

### S6192A Water Pump Socket

- 1/2" square drive socket features dovetail design to deliver positive engagement when applying high-torque
- Black industrial finish
- Applications: 1992–2011 Cadillac® Northstar® 4.6 L V8; 1997–1998 Oldsmobile® Aurora 4.0 L

### S6192A-1 Water Pump Socket Stabilizing Strap

- Bolts on water pump to secure S6192A water pump socket in place during water pump removal and replacement
- Includes (2) M6 x 12 bolts for securing strap to water pump
- Black industrial finish
- Applications: 1992–2011 Cadillac® Northstar® 4.6 L V8; 1997–1998 Oldsmobile® Aurora 4.0 L

### CJ113B Pulley Installer, Power Steering/Alternator (for domestic vehicles)

- Designed for US vehicles
- 1" pulley driver hex, 7/16" pressure screw hex, thread size of 5/8"-18UNF-2A (puller end) and 3/8" 16UNC-2A (shaft end)
- 4-5/8" long

### CJPS4 Power Steering and Alternator Installation Adaptor

- 2.85" Long

### CJ117C Power Steering and Alternator Pulley Puller

- Includes short adaptor to remove small flange-type pulley; long adaptor is used for GM® 200-platform vehicles
- Can also remove Chrysler® alternator pulleys that have double grooves
- Replace pulleys with CJ113B Installer
- Long adaptor included to handle pulleys on GM® minivans
- Nickel-chrome finish, industrial-finish screw
- Designed for most US vehicles (replace pulley with CJ122 sets)

### CJ122 2 pc Power Steering Pulley Installer Set

- Includes installer and pulley installer shaft
- Thread size of 5/8"-18UNF-2A (puller end) and 3/8" 16UNC-2A (shaft end)

### CJ124A Power Steering and Alternator Pulley Puller

- This is a larger version of CJ117C
- Designed for Chrysler®, Ford® and earlier GM® vehicles

### CJ147A Power Steering Gear Lower Pinion Bearing Puller

- Required tool to comply with GM® recall bulletins #02049 and #03062 regarding power steering gear lower pinion bearing separation
- To correct the problem, inspect the condition of the lower pinion bearing and replace the lower pinion bearing—in a few cases, replacement of the rack and pinion steering gear assembly may be necessary—instructions included with tool
- Applications include Buick®: Regal® 1996–1998; Chevrolet®: Cavalier 1996–1998, Lumina 1997–1998, Lumina APV 1996, Malibu® 1997–1998, Monte Carlo® 1997–1998, Venture 1997–1998; Oldsmobile®: Cutlass 1997–1998, Cutlass Supreme 1996–1998, Silhouette 1996–1998, Intrigue 1998; Pontiac®: Grand Prix® 1996–1998, Sunfire® 1996–1998, Trans Sport 1996–1998

### ADT30KT ‡ Alternator Pulley Kit (Blue-Point®)

- Aids installation and removal of Alternator Decoupler Pulleys either OWC (one way clutch) or OAD (Overrunning Alternator Decoupler)
- Varying lengths of hex, TORX® and spline configurations allow user to handle unique combinations for a difficult task
- Master kit eliminates the need to shop around for hard-to-find tools and reduces service bay downtime that can erode a technician's profit
- One Way Clutch (OWC) Pulleys and Overrunning Alternator Decoupler (OAD) Pulleys exist on over 20 million cars and growing
- Tool can be used on all major ADP Manufacturers including INA®, Gates® and Litens®
- The most comprehensive kit on the market
- Features a combination of hex bits, TORX® bits, spline sockets, and specialty bits to work in conjunction to remove pulleys from alternator
- Drop forged and precision CNC components to meet the tight tolerances of the application

### YA1350 Toyota® Water Pump Pulley Wrench (Blue-Point®)

- Essential tool for preventing pulley damage when removing or installing bolts
- Fixed pin dimension for quick, easy installation
- Unique bend to clear engine compartment obstacles
- Wrench head shaped for generous clearance around the bolts



- Do not use chrome or industrial finish hand tools with impact drivers
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## ENGINE SERVICE: SERVICE TOOLS



### Belt Tensioning Tools

#### SRD6 Belt Tensioner Release Tool

- 6" long adaptor with 1/2" male square
- Female triple square drive allows more flexibility to work around obstacles by coming in at different angles with a 1/2" breaker bar
- Similar to the Snap-on® 6" torque adaptors but with a male square
- If using with a torque wrench, refer to the Snap-on® SS306G Torque Chart for the formula to obtain the correct applied torque

#### Heavy-Duty Applications:

- For serpentine belt tensioners with a 1/2" square drive opening found on Detroit Diesel® Series 60 and Caterpillar® engines
- Other applications include buses and delivery vans where the doghouse or engine shrouding can get in the way and make the work area very tight

#### Automotive Applications:

- 1/2" serpentine belt tensioners on Dodge®/Chrysler® (2.0 L and 3.0 L engines) Ford®, Lincoln® and Mercury® (2.3 L, 3.0 L, 4.2 L and 4.6 L engines) GM® (2.5 L, 4.7 L, 5.0 L and 5.7 L engines) vehicles

#### SBT26 ‡ Serpentine Belt Tool (Blue-Point®)

- Works on all serpentine belts
- Clamping jaw allows user to position serpentine belt without the belt slipping out of the tool
- Positive grip allows belt routing in tight access areas
- Ergonomic handle provides comfort and ease in use
- Lightweight steel body for durability and strength

#### YA9417A Belt Tensioning Tool (Blue-Point®)

- General use belt tool for installation and removal of V-belts and timing belts
- Two-pin design and long length allow user to push and pull belts as needed for access in restricted areas

#### YA9340 ‡ Serpentine Belt Wrench (Blue-Point®)

- Used to release any serpentine belt tensioner with a 1/2" square drive opening
- Ratcheting action allows better positioning of the tool, creating a greater swing angle than a solid-type serpentine belt wrench
- Reversible ratchet head is only 1" thick so it will fit between the tensioner face and fan blades on Detroit Diesel® S Series 60 and some Caterpillar® engines
- Also ideal for working on buses and delivery vans where the doghouse or engine shrouding restrict access
- Compact overall length keeps handle from coming in contact with radiator hoses, charged air cooler pipes, hydraulic lines or frame rails
- Vinyl grip for comfort
- 13" overall length

#### YA9350B ‡ 9 pc Ratcheting Belt Tensioning Wrench Set

- Allows direct access to belt tensioners without removing engine accessories or frame components
- Covers almost 90% of all vehicles equipped with spring-loaded serpentine belt tensioners
- Includes (1) belt tensioning wrench and (8) adaptors
- All adaptors feature a 15 mm external hex drive
- Applications: Chrysler® (Dodge® and Plymouth®), Ford® (Lincoln® and Mercury®), GM®, Isuzu®, Jeep®, Lexus®, Mazda®, Mitsubishi®, Saturn®, Toyota®, VW® vehicles

#### YA9350B1 ‡ Belt Tensioning Wrench

- 15 mm single hex

#### YA9350-2 ‡ 14 mm Hex Adaptor (Blue-Point®)

- 15 mm external hex drive

#### YA9350-3 ‡ 18 mm Hex Adaptor, (Blue-Point®)

- 15 mm external hex drive

#### YA9350-4 ‡ 3/8" Square Drive Adaptor (Blue-Point®)

- 15 mm external hex drive

#### YA9350-5 ‡ 1/2" Square Drive Adaptor (Blue-Point®)

- 15 mm external hex drive

#### YA9350-6 ‡ 13 mm /1/2" Hex Adaptor (Blue-Point®)

- 15 mm external hex drive

#### YA9350-7 ‡ 16 mm /5/8" Hex Adaptor (Blue-Point®)

- 15 mm external hex drive

#### YA9350-8 ‡ 15 mm Hex Adaptor (Blue-Point®)

- 15 mm external hex drive

#### YA9350-9 ‡ 19 mm /3/4" Hex Adaptor (Blue-Point®)

- 15 mm external hex drive

#### GA424A Belt Tension Gauge (Blue-Point®)

- 30–180 lb (130–800 N•m) range
- Squeeze handle, place gauge on drive belt, release handle and read

**Belt Tensioning Tools**

**SBT60 Serpentine Belt Tensioner Wrench**

- Saves time by reducing the number of parts removed to change belts
- Double ended to fit more models
- Extra-long for more leverage

**SBT12 ‡ GM® Ecotec® Serpentine Belt Tensioner Wrench (Blue-Point®)**

- Designed to ease service of serpentine belt on Ecotec® 2.2 L and 2.4 L inline 4 cylinder engines in GM® vehicles
- Service serpentine belt without removal of engine mount or lower air filter housing
- Allows access to tensioner from top of engine compartment
- Double square drive gives improved leverage and flexibility
- Low profile fits into space between tensioner and frame rail

**SBIT1 ‡ Stretch Belt Tool (Blue-Point®)**

- Allows belt to be rotated onto pulley without twisting the belt, which can cause damage to the belt
- Low profile to allow for tight access applications
- Groove on underside of tab fits on outer lip of pulley to prevent tool from slipping off the pulley

**SBIT2 ‡ Stretch Belt Tool (Blue-Point®)**

- Easily install stretch belts on late model European vehicles
- Allows belt to be rotated onto pulley without twisting the belt and causing damage
- Low profile to allow for tight access applications
- Groove on underside of tab fits on outer lip of pulley to prevent tool from slipping off the pulley

**Applications:**

- BMW®: models 118, 120, 318, 320, 325, 330, 335, 520, 525, 530, 535, 635, 730, X3® and X5®; Volvo® vehicles: models C30, S40 and V50; Mercedes-Benz®: 3.0 L diesel engines

**SBT2KT Stretch Fit Belt Kit (Blue-Point®)**

- Universal installation and removal of all stretch belts
- Easy to use process for both removal and installation
- Allows removal and reuse of stretch fit belts
- Includes SBTI Install Tool, SBTR Removal Tool and informative instructional DVD

**SBTI Stretch Fit Belt Install Tool (Blue-Point®)**

- Universal installation of all stretch belts
- Easy-to-use process
- Allows removal and reuse of stretch fit belts

**SBTR Stretch Fit Belt Removal Tool (Blue-Point®)**

- Universal removal of all stretch belts
- Easy to use process
- Allows removal and reuse of stretch fit belts



SBT60



SBT12



SBIT1



SBIT2



SBT2KT



SBTI



SBTR

**Thermal Vacuum Switch**

**S9842A Thermal Vacuum Switch Socket**

- For US vehicles through 1988
- 1/2" drive, 6-point wrench opening, 7/8"
- 3-1/8" long



S9842A

**Turning/Moving**

**S6158 Engine Barring Socket**

- Use 4 L 6.6 L small block V8s in Chevrolet® vehicles
- Designed to turn the engine over when it is on engine stand
- 1/2" drive



S6158



• Do not use chrome or industrial finish hand tools with impact drivers  
 • Do not use "cheater bars" on handles  
 • ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

## ENGINE SERVICE: SERVICE TOOLS



YA188LR



CJ146



HIW3A



HIW4A

## Harmonic Balancer

### YA188I Harmonic Balancer Installer (Blue-Point®)

- Includes (7) adaptors for use on a wide range of engines
- Adaptor sizes: 7/16"-20, 1/2"-20, 9/16"-18, 3/4"-16, M12 x 1.5, M14 x 1.5 and M16 x 2.0

### YA188LR ‡ Long-Reach Harmonic Balancer Installer (Blue-Point®)

- Traditional harmonic balancer installers cannot be used to install the harmonic balancers on V8s and V6s for late model GM®, Ford®, Chrysler® and Dodge® vehicles
- Kit includes tools for all three US vehicle makers
- Reduce the risk of stripping threads inside the crank
- Reduce the risk of breaking crank bolts
- Kit includes YA188LR-1–YA188LR-5

### YA188MKTB Master Harmonic Balancer Installer Kit (Blue-Point®)

- Includes traditional installer adaptors as well as long reach adaptors for late model applications
- Services harmonic balancers as well as underdrive pulleys and recessed crank threads on Dodge® Hemi®, GM® Gen III/IV and Ford® 4.6 L and 5.4 L modular engines
- Works on most European vehicles including BMW® and VW® as well as Toyota®, Honda®, Kia® and Hyundai® vehicles

### CJ146 Crankshaft Harmonic Balancer Kit

- Remove the crankshaft harmonic balancer on 1990 and later 3.3 L and 3.8 L GM® engines
- Shoulder bolt adaptors provide the correct installation depth, preventing damage to the crank sensor and interrupter rings
- Includes (3) CJ146-1 adaptors, (1) CJ146-2 extension and vinyl storage pouch
- Requires Snap-on® CJ98-1 yoke and CJ83-3 pressure screw for use (not included)

### HIW3A Hand Impact Wrench (Blue-Point®)

- Remove/replace harmonic balancer pulleys without removing the radiator
- Accesses restricted areas where an air impact wrench will not fit or when air supply is unavailable
- Molded rubber hand guard
- Max torque: 600 ft-lb
- Overall length: 22-1/16"

### HIW4A Hand Impact Wrench (Blue-Point®)

- Provides high-impact force for breaking loose fasteners used in both automotive and industrial applications such as working on Duramax® crankshaft bolts or on-site heavy equipment service and repair
- No compressed air required
- Bidirectional for loosening or tensioning fasteners
- 3/4" drive
- Tool is 23" in length (590 mm)

## Harmonic Damper Pulley Pullers

### HDP1800 15 pc Master Harmonic Damper Pulley Puller Set

- Combines (4) harmonic pulley puller kits into one master kit
- Features three styles of legs including the unique patent-pending, industry-exclusive side-turn legs
- Includes an extra set of spring washers and a spare clevis pin
- Compact design has everything needed inside a blow-molded case

### HDP1835† Harmonic Damper Pulley Puller for Ford®/GM®

- Revolutionary low-profile legs fit smaller narrow pulley pockets and have the correct geometry to work on a wide range of applications because the legs grasp on the backside of the spoke
- New design increases the bite of the leg to the pulley as it's tightened
- Compact design accommodates tight engine compartments
- Spring-loaded legs maintain position to save time as the puller is positioned on the harmonic damper pulley
- Saves the average user approximately 30-minutes

### HDP1740‡ Two-Jaw Harmonic Pulley Puller

- Specially designed two-jaw puller for smaller cars with four-spoke pulleys
- Patent-pending side-turn legs quickly and easily grab the pulley
- Compact low profile narrow design fits the small pockets found on most pulleys
- Spring-loaded legs maintain their position and save time as the puller is positioned on the pulley

### HDP1345‡ Harmonic Dampener Pulley Puller

- Includes (6) push rods in multiple lengths and special patent pending tip
- Spring-loaded legs retain leg position and have correct geometry for Dodge® pulleys
- Gives greater ease and control when installing the puller in confined areas
- Eliminates the time consuming process of removing the radiator and other components

### YA13350 Harmonic Dampener Pulley Puller (Blue-Point®)

- Use on 3.6L Camaro® engines
- Unique design accesses the pulley on internal pulley ledges

### HDP6490‡ Harmonic Damper Pulley Puller

- New spring-loaded legs allow for leg position retention
- Provides greater ease and control when installing the puller in confined areas
- Removes 3- and 6-spoke harmonic damper pulleys found on many Chrysler® and GM® engines
- Eliminates the need to remove the radiator or other components

### YA6010A Harmonic Dampener Pulley Holding Tool (Blue-Point®)

- Saves time during removal and installation of the crank bolt on most engines in Honda® and Acura® vehicles
- Verify exact model year/engine size coverage with tool instructions
- When used with a 1/2" drive breaker bar or ratchet, prevents the pulley from rotating when removing/installing the pulley bolt

### YA9740A-6 Short Push Rod (Blue-Point®)

- For older model YA9740 pullers
- For use on crankshafts that are not drilled to full depth



HDP1800



YA13350



HDP6490



YA6010A



- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## ENGINE SERVICE: SERVICE TOOLS



### Seal Pullers

#### SPS2 ‡ Universal Seal Puller Set

- Small seal puller used for common seal sizes and large seal puller used for larger seal sizes
- 2 and 4" pins for various seal diameter sizes with clearance requirements
- Surface area on hook helps prevent seal puller from piercing through the seal (0.25" where competitive units are smaller at 0.12")
- Pin creates a pivot point on the surface of the seal, thus distributing the force evenly over a larger surface area when compared to a traditional seal puller design



### PCV/EVAP Tools

#### LDTBH5 5 pc PCV/EVAP Hose Release Tool Set

- Unique tools allow technicians to release breather hose connectors on the vehicle with very little effort
- Compact size allows increased access for easy installation and removal, saving the technician time
- Made of lightweight yet durable aluminum design
- Set includes (5) sizes, each in a different color for easier identification

#### LDTBH5-1 1-1/4" PCV/EVAP Release Tool

#### LDTBH5-2 1-1/8" PCV/EVAP Release Tool

#### LDTBH5-3 15/16" PCV/EVAP Release Tool

#### LDTBH5-4 5/8" PCV/EVAP Release Tool

#### LDTBH5-5 1-1/2" PCV/EVAP Release Tool



YA7200



YA8640



YA9870



YA4590A



YA6760

### Specialty Tools

#### YA7200 ‡ 7/32" 6-Point T20 TORX® Bit 25° Offset Ford® Ignition Module Wrench (Blue-Point®)

- For 1982 and later Ford® ignition modules
- Ratcheting ends are offset 25°
- One end has 7/32", 6-point; other end a T20 TORX® bit

#### YA8640 Cam Belt Wrench for VW®/Audi® Vehicles (Blue-Point®)

- For adjusting camshaft spur belts that have idler pulleys with pin holes
- Vinyl handle grip

#### YA6760 Timing Belt Pulley Holder for VW®/Audi® (Blue-Point®)

- Holds crank pulley stationary for crank bolt removal and installation to the factory torque requirement
- Three-bolt design for secure holding
- 1/2" drive for use with a breaker bar
- Heat treated for strength with high-quality black finish
- Applications: 1.8 L 4 cylinder turbo: VW® and Audi® vehicles 1998–2006; 2.0 L 4 cylinder: VW® vehicles 1993–2005; 2.0 L 4 cylinder turbo: VW® and Audi® vehicles 2006 and later

#### YA9870 Tension Pulley Spanner Wrench (Blue-Point®)

- Easily adjust camshaft spur belts having idler pulleys with pin holes on Mitsubishi®, Plymouth® and Eagle vehicles
- Protruding pins on the wrench grip the center of the idler pulley and rotate it around its off center retaining bolt
- Rotation allows for the camshaft spur belt tension adjustment
- Designed for use on: 1990–1993 Mitsubishi® Eclipse®, Eagle Talon and Plymouth Laser 2.0 L DOHC (non-turbo); 1990–1993 Plymouth Laser 2.0 L DOHC (turbo); 1990 and later Mitsubishi® Eclipse and Eagle Talon 2.0 L DOHC (turbo); 1994–1996 Mitsubishi® Montero® 3.5 L DOHC; 1994 and later Mitsubishi® Montero® 3.5 L SOHC; 1994 and later Mitsubishi® Galant® 2.4 L SOHC; and 1994 and later Mitsubishi® Mirage®
- 1.8 L SOHC vehicles

#### YA4590A Hood Prop (Blue-Point®)

- 3 pc telescoping shaft locks in any position
- Range is 20"–48-1/2"
- Will work on front or sides of any car or truck
- Made of steel tubing and features locking levers on each section
- Includes holding support to prevent slippage

#### YA45904 Hood Prop Adaptor (Blue-Point®)

## Valve Guide Brushes

### AC10B Valve Guide Brush (Blue-Point®)

- Brush wire is woven into twisted wire strands
- Each features a fluted, wooden handle
- 5/16" dia

### AC11B Valve Guide Brush (Blue-Point®)

- Brush wire is woven into twisted wire strands
- Each features a fluted, wooden handle
- 11/32" dia

### AC12B Valve Guide Brush (Blue-Point®)

- Brush wire is woven into twisted wire strands
- Each features a fluted, wooden handle
- 3/8" dia



AC10B



PHG83B

## Metric Valve Guide Removers

- Designed for use with Snap-on® air hammers
- Can also be used as drift punches
- Zinc Clear Chromate finish provides bright plating for greater visibility and corrosion resistance

### PHG83B Valve Guide Remover

- 7.7 mm pilot
- 190 mm long

### PHG86B Valve Guide Remover

- 9.3 mm pilot
- 190 mm long

### PHG96B Valve Guide Remover

- 6.9 mm pilot
- 189 mm long

### PHG97B Valve Guide Remover

- 5.2 mm pilot
- 189 mm long

## Cylinder Head

### S6132A 3/8" Drive Metric Valve Cover Bolt Socket

- For GM® vehicles, 1976 and later Honda® vehicles and other import and US vehicles
- 10 mm, 12-point wrench size
- Allows access to head bolts, valve and rocker covers and oil pan bolts
- Deep clearance for bolts with extended tip as used on spark plug wire harness
- 3/8" drive; 11/16" O.D.
- 4-1/8" long



S6132A

## Valve Adjustment Tools

Valve adjusting tools for current VW® vehicles. These two tools are designed to be used together on all late models requiring the VW® #2078 tool, which includes all current 5 cylinder VW® and Audi® 5000.

### YA8825 Valve-Adjusting Tool (Blue-Point®)

- For Toyota® and other overhead camshaft engines using spacer shims
- Shim pliers push between the shim and camshaft, allowing the included YA8825-1 wedge tool to be placed between the valve lifter ledge and camshaft for easy shim replacement

### YA8825-1 Wedge Tool (Blue-Point®)

- Wedge tool to be placed between the valve lifter ledge and camshaft for easy shim replacement



YA8825

## Metric Jam Nut Type Adjustment Tools

Include an idle adjustment screwdriver within a socket and handle for holding adjustment screw in place while the jam nut is tightened. Handle pivots from one side to the other so the socket "window" is always visible.

### YA8880 Valve Adjustment Tool (Blue-Point®)

- For all cars with 12 mm jam nut valve screws

### YA8895 Valve Adjustment Tool (Blue-Point®)

- For all cars with 10 mm jam nut valve screws



YA8880

## Camshaft/Crankshaft Tools

### GA285 Camshaft Bearing Remover and Inserter Set (Blue-Point®)

- Removes and inserts bearings in all engines
- Five driving plugs handle a range of 1.475–2.690"
- Fits slightly undersized or oversized bearings
- Packed in a sturdy storage case



GA285



- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## VALVE: SERVICE TOOLS



VLP104

### Valve Lapping Tools

- 1/4" hex power bit shank quickly attaches to drill
- Durable nylon body prevents accidental cylinder abrasions
- Sized to fit most common applications
- Suction cup holds valve securely while performing operation
- Made in the USA

#### VLP104 4 pc Power Valve Lapping Tool Set

#### VLP20 5/8" Power Valve Lapping Tool

#### VLP26 13/16" Power Valve Lapping Tool

#### VLP36 1-1/8" Power Valve Lapping Tool

#### VLP44 1-3/8" Power Valve Lapping Tool



GA317

GA318A

### Valve Keeper Tools

#### GA317 Metric Valve Keeper Remover/Installer (Blue-Point®)

- Quickly removes and installs valve keepers on most overhead cam engines with valve stems from 4.5–7.5 mm
- Push or tap the tool with a hammer to remove valve keepers
- Magnet in tool body captures keepers for quick removal and valve disassembly
- To install keepers, load keepers then push or tap to install
- Used on vehicle or on workbench

#### GA318A Overhead Valve Tool (Blue-Point®)

- Removes and replaces valve keepers on all gas and diesel overhead valve engines, even VW® Rabbit®, motorcycle, marine and aircraft engines
- Magnetically retains keepers and will not bend valve stems
- Use in place of c-clamp or other type of compressor
- Use only with a soft-faced hammer



YA8230

VL2

### General Service

#### YA8230 Valve Stem Seal Pliers (Blue-Point®)

- Removes valve stem seals from overhead camshaft engines, including four valve-per-cylinder engines that have restricted access to the valve stem seal
- Gripping serrations in the pliers tip easily grab both OEM and aftermarket seals with ease
- Easy-grip handles

#### VL2 Valve Holder (Blue-Point®)

- 5/8" and 13/16" dia. suction cups

#### VL3 Valve Holder (Blue-Point®)

- 1-1/8" and 1-3/8" dia. suction cups



CF811B



CF19B



CF700C

### Valve Lifters

#### CF811B ‡ Compressor, C-Clamp (1–2" capacity) (Blue-Point®)

- 1–2" capacity
- For-L head, valve in head, high compression engines and vehicles with overhead valves
- Activating mechanism prevents cocking of valve spring as it is compressed

#### CF19B ‡ Compact C-Clamp Compressor (Blue-Point®)

- Compact model includes CF19-3A jaws for 1/4–1-1/16" dia. springs on small, air-cooled engines and CF19A5 jaws for both 17 and 20.8 mm diameter springs on Honda® engines

#### CF700C ‡ Air-Operated C-Clamp Compressor (7/8–2-1/2" capacity) (Blue-Point®)

- 7/8–2-1/2" capacity
- Operates on 90–150 PSI, but develops up to 3x output pressure
- Tool measures 1 x 8"

#### CF700C-1 ‡ Jaws Set (Blue-Point®)

- For CF811B and CF700C
- Large, straight jaws with 1-1/2–2-1/2" capacity

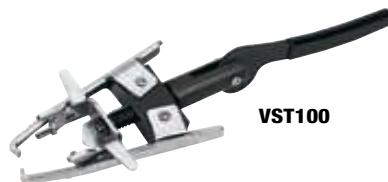
#### CF700C-2 ‡ Replacement Jaw Set (Blue-Point®)

- Medium, offset jaws with 1–2" capacity
- For CF811 and CF700





**YA9140B**



**VST100**



**YA9140B-LDT**

**Valve Spring Compressors**

**YA9140B Universal Valve Spring Compressor (Blue-Point®)**

- Removes/installs the valve spring without removal of the cylinder head from the engine
- US and import servicing of single and double overhead cam engines, including Audi®, Chrysler®, Infiniti®, Honda®, Hyundai®, Lexus®, Mazda®, Mitsubishi®, Nissan®, Porsche®, Saturn®, Toyota®, Volvo® and VW® vehicles

**VST100 ‡ Cam Operated Valve Spring Compressor (Blue-Point®)**

- Eliminates the need for cylinder removal and the need to readjust tool to each spring
- Works on most overhead valve engines

**YA9140B-LDT Lock Down Tool for YA9140B (Blue-Point®)**

- Allows technician ability to actuate compression tube even in tight, confined locations
- Allows compression of springs that are confined by brake boosters, AC housings and other factors

**VST1435 Dodge®/Chrysler® Valve Spring Compressor**

- Eliminates the need to remove engine or cylinder heads
- Quickly and easily compresses the valve spring to remove the loosened keepers with a magnet
- Tool allows technicians to work faster and more efficiently, allowing them to service more vehicles and increasing profit earning potential
- Reduces valve spring service time from days to a matter of hours

**Valve Spring Replacement Tools (Lexus®)**

**M2112PK Timing Chain Holder For Lexus® Vehicles (2 pk)**

- Lexus® V6 Valve Spring Replacement Tool
- For Lexus® safety recall ALE
- M2112PK includes (2) M2112s (as two are required to hold timing chain)

**Application:**

- M2112PK holds timing chain during valve spring replacement or any other service requiring camshaft removal
- Saves technician time as the engine can be turned over with the cam shaft out and with the timing chain installed

**M2113 For VVT Gear Holder Lexus® Vehicles**

- Lexus® V8 Valve Spring Replacement Tool
- For Lexus® engine designation 1UR-FSE 4.6 L V8
- For Lexus® safety recall ALE

**Application:**

- M2113 holds the intake VVT gear during valve spring replacement
- Saves technician time as the engine can be turned over with the cam shaft out and with the VVT gear in and timing chain installed
- M2113 can be used instead of using wire ties



**M2112PK**



**M2113**

**CYLINDER: SERVICE TOOLS**

**Ridge Reamer**

**WR30A ‡ 3-5" Ridge Reamer (Blue-Point®)**

- Lathe type reamer is for 3-5" diameter cylinders
- Centers itself in cylinder

**WR30A10 Replacement Cutter Bit (Blue-Point®)**

- For WR30A ridge reamer



**WR30A**



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## PISTON: SERVICE TOOLS



PRS8



PRS10



RC510A



RC150A



RC50C



RC40C



RCL30



RCW60



RC980

### Ring Expanders

#### PRS8 Piston Ring Expander (Blue-Point®)

- Installs piston rings from 3/64–1/4" thick
- Eliminates breakage or distortion of rings
- 7" long

#### PRS10 † Piston Ring Expander (Blue-Point®)

- 2-3/4"–4-1/4" ring capacity
- Remove or install both step cut and diagonal cut rings
- Spring tension eliminates the need for adjustment

#### PRS12 † Piston Ring Expander (Blue-Point®)

- Similar to PRS10 but with 4-1/2–7" ring capacity
- Excellent for heavy-duty diesel applications

### Ring Groove Cleaners

#### RC510A Piston Ring Groove Cleaner (Blue-Point®)

- For pistons with grooves of 5/64, 3/32, 1/8, 5/32 and 3/16" with diameters from 1–5"

### Ring Compressors

#### RC150A Ring Compressor (Blue-Point®)

- Four band
- 3-1/2–7" capacity, 7" deep

#### RC50C Ring Compressor (Blue-Point®)

- Two band
- 3-1/2–7" capacity, 3-1/2" deep

#### RC40C Ring Compressor (Blue-Point®)

- Two band
- 2-1/8–5" capacity, 3-1/2" deep

#### RCL30 Ring Compressor (Blue-Point®)

- One band
- 2-1/2–5" capacity
- May be disassembled and removed from around connecting rod when used on small aircraft, motorcycle or other engines that require the cylinder to be pushed over the piston during assembly

#### RCW60 Ring Compressor (Blue-Point®)

- One band
- 3–5" capacity, 1-1/2" deep
- Low-friction wrinkle band construction with thumbscrew for precise adjustment
- Used on small aircraft and motorcycle engines where cylinders are pushed over piston during assembly

#### RC980 Ring Compressor Set (Blue-Point®)

- Works both horizontally and vertically with pliers grip handle
- Fine tooth ratcheting mechanism
- Includes six hardened steel bands: 2-7/8–3-1/8", 3-1/8–3-3/8", 3-3/8–3-5/8", 3-5/8–3-7/8", 3-7/8–4-1/8" and 4-1/8–4-3/8"

#### RC980-10 Optional Band (Blue-Point®)

- 5-1/2–5-3/4" capacity

#### RC980-11 Replacement Pliers (Blue-Point®)

#### RC980-7 Optional Band (Blue-Point®)

- 4-1/2–4-3/4" capacity

#### RC980-8 Optional Band (Blue-Point®)

- 4-3/4–5" capacity

#### RC980-9 Optional Band (Blue-Point®)

- 5–5-1/4" capacity

#### RC980-9.5 Optional Band (Blue-Point®)

- 5-1/4–5-1/2" capacity

# BUSHING/SEAL: INSERTER/REMOVER



A57Q

## A57Q Bushing Remover/Inserter Set

- For standard and specialized bronze, steel, rubber or Enlox bushings
- Range of adaptor sizes covers nearly all shackle and steering bushings
- New bushings are inserted by tightening screw, which forces the bushing into place without hammering
- Sleeve permits forcing out of old bushings
- Useful where limited space prevents driving bushings out
- Five smallest adaptors are used only with the smallest driver

| Stock No. | Description    |
|-----------|----------------|
| A57CA     | Screw          |
| A57-35    | Screw          |
| A57-3     | Washer         |
| A57-37    | Sleeve Adaptor |
| A57-39    | Sleeve Adaptor |

| Stock No. | Description    |
|-----------|----------------|
| A57-41    | Sleeve Adaptor |
| A57-38    | Sleeve Adaptor |
| A57-36    | Sleeve         |
| A57-27    | Puller         |

| Stock No. | Dimension, inches O.D.       | Dimension, inches small O.D. | Dimension, inches large I.D. | Dimension, inches large O.D. |
|-----------|------------------------------|------------------------------|------------------------------|------------------------------|
| A57-15    | Bushing Driver               |                              |                              |                              |
| A57-16    | .339                         | .434                         | —                            | —                            |
| A57-17    | .430                         | .497                         | —                            | —                            |
| A57-26    | .492                         | .622                         | —                            | —                            |
| A57-18    | —                            | .493                         | —                            | .559                         |
| A57-25    | —                            | .554                         | —                            | .684                         |
| A57-14A   | Bushing Driver               |                              |                              |                              |
| A57-8     | .555                         | .622                         | —                            | —                            |
| A57-19    | .601                         | .668                         | —                            | —                            |
| A57-7     | .618                         | .747                         | —                            | —                            |
| A57-6     | .678                         | .809                         | —                            | —                            |
| A57-5     | .728                         | .856                         | —                            | —                            |
| A57-24    | .742                         | .997                         | —                            | —                            |
| A57-10    | .789                         | .918                         | —                            | —                            |
| A57-11    | —                            | .851                         | —                            | .980                         |
| A57-22    | —                            | .907                         | —                            | 1.046                        |
| A57-12A   | —                            | .919                         | —                            | 1.027                        |
| A57A13    | —                            | .993                         | —                            | 1.122                        |
| A57-46    | —                            | 1.034                        | —                            | 1.136                        |
| A57-20    | —                            | 1.055                        | —                            | 1.184                        |
| A57-23A   | —                            | 1.101                        | —                            | 1.230                        |
| A57-45    | —                            | 1.250                        | 1.125                        | —                            |
| A57-42    | —                            | 1.406                        | 1.187                        | —                            |
| A57-48    | 1.206                        | 1.500                        | —                            | —                            |
| A57-29    | 1.222                        | 1.372                        | —                            | —                            |
| A57-40    | 1.367                        | 1.625                        | —                            | —                            |
| A57-44    | —                            | 1.812                        | 1.375                        | —                            |
| A57-43    | —                            | —                            | 1.625                        | 2.000                        |
| A57-47    | —                            | —                            | 1.859                        | 2.000                        |
| A57-51    | —                            | —                            | —                            | 17/32 opening                |
| A57-50    | —                            | —                            | —                            | 1-3/8 opening                |
| ESD1428   | Bearing (1/2" I.D., 1" O.D.) |                              |                              |                              |
| ME4A2     | Nut (1/2"-20)                |                              |                              |                              |
| ME4A4     | Nut (5/8"-18)                |                              |                              |                              |



A57CA



A57-35



A57-3



A57-37



A57-36



A57-27



A57-15



A57-16



A57-18



A57-14A



A57-8



A57-5



A57-11



A57-46



A57-20



A57-45



A57-42



A57-48



A57-44



A57-43



A57-51



• †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## BUSHING/SEAL: DRIVER SETS

### Heavy-Duty Metric Bushing Driver Set

#### A261M Metric Bushing Driver Set

- Includes an extra large driver handle and adaptors in 40–80 mm sizes
- Packaged in PB117 storage box



A261M

| Stock No. | Description               |
|-----------|---------------------------|
| A257-1    | Extra Large Driver Handle |
| A257-5    | Driver Nut                |
| A261M1    | Adaptor (40–44 mm)        |
| A261M2    | Adaptor (42–45 mm)        |
| A261M3    | Adaptor (45–48 mm)        |
| A261M4    | Adaptor (48–52 mm)        |
| A261M5    | Adaptor (50–53 mm)        |
| A261M6    | Adaptor (55–60 mm)        |
| A261M7    | Adaptor (60–65 mm)        |
| A261M8    | Adaptor (65–70 mm)        |
| A261M9    | Adaptor (70–75 mm)        |
| A261M10   | Adaptor (75–80 mm)        |
| PB117     | Storage Case              |

### Heavy-Duty Bushing Driver Sets

#### A257 Complete Heavy-Duty Bushing Driver Set

- Complements the A157C set by adding 27 larger adaptors for transmission work as well as many other automotive and industrial applications
- Industrial finish
- Packaged in PB27 storage box



A257

| Stock No. | I.D., inches        | O.D., inches |
|-----------|---------------------|--------------|
| A257-1    | —                   | 1-1/8        |
| A157-5    | Driver Nut, 1/2"-20 | —            |
| A257-23   | 1-5/16              | 1-7/16       |
| A257-24   | 1-3/8               | 1-1/2        |
| A257-25   | 1-7/16              | 1-9/16       |
| A257-26   | 1-1/2               | 1-5/8        |
| A257-27   | 1-9/16              | 1-11/16      |
| A257-28   | 1-5/8               | 1-3/4        |
| A257-29   | 1-11/16             | 1-13/16      |
| A257-30   | 1-3/4               | 1-7/8        |
| A257-31   | 1-13/16             | 1-15/16      |
| A257-32   | 1-7/8               | 2            |
| A257-33   | 1-15/16             | 2-1/16       |
| A257-34   | 2                   | 2-1/8        |
| A257-35   | 2-1/16              | 2-3/16       |
| A257-36   | 2-1/8               | 2-1/4        |
| A257-37   | 2-3/16              | 2-5/16       |
| A257-38   | 2-1/4               | 2-3/8        |
| A257-39   | 2-5/16              | 2-7/16       |
| A257-40   | 2-3/8               | 2-1/2        |
| A257-41   | 2-7/16              | 2-9/16       |
| A257-42   | 2-1/2               | 2-5/8        |
| A257-43   | 2-9/16              | 2-11/16      |
| A257-44   | 2-5/8               | 2-3/4        |
| A257-45   | 2-11/16             | 2-13/16      |
| A257-46   | 2-3/4               | 2-7/8        |
| A257-47   | 2-13/16             | 2-15/16      |
| A257-48   | 2-7/8               | 3            |
| A257-49   | 2-15/16             | 3-1/16       |
| PB27      | Storage Case        |              |

### Standard Bushing Driver Set

#### A157C Standard Bushing Driver Set

- Adaptors held on drivers with knurled nut
- Small and medium drivers (A157-3 and A157-2) fit all smaller bushings (A157-6–A157-12); large driver (A157-1) fits remaining bushings (A157-13–A157-22)
- Industrial finish
- Packaged in PB20 storage box



A157C

| Stock No. | I.D., inches         | O.D., inches |
|-----------|----------------------|--------------|
| A157-1    | Large Driver Handle  | 13/16        |
| A157-2    | Medium Driver Handle | 9/32         |
| A157-3    | Small Driver Handle  | 7/16         |
| A157-4    | Driver Nut, 5/16"-24 | —            |
| A157-5    | Driver Nut, 1/2"-20  | —            |
| A157-6    | 3/8                  | 7/16         |
| A157-22   | 15/32                | 17/32        |
| A157-7    | 7/16                 | 1/2          |
| A157-8    | 1/2                  | 5/8          |
| A157-9    | 9/16                 | 11/16        |
| A157-10   | 5/8                  | 11/16        |
| A157-11   | 5/8                  | 3/4          |
| A157-12   | 11/16                | 13/16        |
| A157-13   | 3/4                  | 7/8          |
| A157-14   | 13/16                | 15/16        |
| A157-15   | 7/8                  | 1            |
| A157-16   | 15/16                | 1-1/16       |
| A157-17   | 1                    | 1-1/8        |
| A157-18   | 1-1/16               | 1-3/16       |
| A157-19   | 1-1/8                | 1-1/4        |
| A157-20   | 1-3/16               | 1-5/16       |
| A157-21   | 1-1/4                | 1-3/8        |
| PB20      | Storage Case         |              |

#### A158B Heavy-Duty Bushing Driver Set

- Includes (8) basic adaptors for servicing bushings on trucks, tractors and buses
- Adaptors are secured to threaded driver shaft by knurled nut
- Industrial finish
- Packaged in PB34 storage box



A158B

| Stock No. | I.D., inches        | O.D., inches |
|-----------|---------------------|--------------|
| A257-1    | —                   | 1-1/8        |
| A157-5    | Driver Nut, 1/2"-20 | —            |
| A257-23   | 1-5/16              | 1-7/16       |
| A257-24   | 1-3/8               | 1-1/2        |
| A257-25   | 1-7/16              | 1-9/16       |
| A257-26   | 1-1/2               | 1-5/8        |
| A257-27   | 1-9/16              | 1-11/16      |
| A257-28   | 1-5/8               | 1-3/4        |
| A257-29   | 1-11/16             | 1-13/16      |
| A257-30   | 1-3/4               | 1-7/8        |
| PB34      | Storage Case        |              |

### Seal Driver Set

#### A1306-1-1 Bolt and Washer

- Adaptor mounting

| Stock No. | Description     |
|-----------|-----------------|
| A1306-1-1 | Bolt and Washer |

## Standard Metric Bushing Driver Set

| Stock No. | Description          |
|-----------|----------------------|
| A157-1    | Large Driver Handle  |
| A157-2    | Medium Driver Handle |
| A157-3    | Small Driver Handle  |
| A157-4    | Driver Nut, 5/16"-24 |
| A157-5    | Driver Nut, 1/2"-20  |
| A160M1    | Adaptor (10–12 mm)   |
| A160M2    | Adaptor (12–14 mm)   |
| A160M3    | Adaptor (14–16 mm)   |
| A160M4    | Adaptor (15–17 mm)   |
| A160M5    | Adaptor (16–18 mm)   |
| A160M6    | Adaptor (18–20 mm)   |
| A160M7    | Adaptor (20–22 mm)   |
| A160M8    | Adaptor (22–24 mm)   |
| A160M9    | Adaptor (25–27 mm)   |
| A160M10   | Adaptor (28–30 mm)   |



| Stock No. | Description        |
|-----------|--------------------|
| A160M11   | Adaptor (30–34 mm) |
| A160M12   | Adaptor (32–36 mm) |
| A160M13   | Adaptor (35–40 mm) |
| A160M14   | Adaptor (38–42 mm) |
| PB118     | Storage Case       |

### A160M Metric Bushing Driver Set

- Includes (3) driver handles and adaptors
- Sizes: 10–42 mm
- Packaged in PB118 storage box

## Dead Blow Hammer

### HLE24 24 oz Dead Blow Piston Hammer

- Made of material that will not damage the piston
- Shot-filled head reduces rebound
- Head length is 7-3/4"
- Diameter is 1-1/4–1-1/2" with a reach of 5-1/2" to the handle shoulder
- Overall length is 12-3/4"



## Bearing Race and Seal Drivers

- Two different disk materials (aluminum or steel) allows optimization to component type
- Sets fit most standard wheel bearing sizes including late model 4X4 vehicles
- Snap-on® "crown" striking handle for comfort and protection from off-center blows
- Handle features a ball-detent for easy disk attachment and removal; no screws to lose



A1310B



A1310SB

### A1310B 10 pc Aluminum Bearing and Seal Driver Set

- Unique driver design—comfortable Snap-on® "crown" handle with striker cap
- Ball-detent attachment design—eliminates the hassle of screws to attach disks (faster, avoids lost screws)
- Handle 9-3/4" with 3" neck—provides better access and keeps hands farther from component contact
- Ability to match disk with what you are working on—aluminum for softer materials and steel for harder materials
- Includes plastic storage case

### A1310SB 10 pc Steel Bearing and Seal Driver Set

#### A1310B27 Extra-Long Handle Driver

- Driver works in tandem with Snap-on® A1310B, and A1310SB bearing and seal drivers, as well as all BJP1 Cups with the A1310SB-BJP1 adaptor
- The driver handle features a broad steel striking cap that protects your hand from off center strikes
- The driver retains the disks without a fastener, making it quicker to use and no screw to lose or break
- At 25.9" (19.3" exposed) the additional length allows access in places other bearing and seal drivers just can't go
- Bar is made of heat treated alloy steel

#### A1310B17 Long Handle Driver

- At 16-1/2" (10" exposed) the additional length allows access in places other drivers just can't go
- Driver is made of heat treated alloy steel

| Description          | Stock No.         | Size/Diameter | Set Contains: |         |
|----------------------|-------------------|---------------|---------------|---------|
|                      |                   |               | A1310B        | A1310SB |
| Driver Handle        | A1310B-1          | 9-3/4" Length | •             | •       |
| Case                 | A1310B-11         | —             | •             | •       |
| Aluminum Driver Disk | A1310B-2          | 1.565" Dia    | •             |         |
|                      | A1310B-3          | 1.75" Dia     | •             |         |
|                      | A1310B-4          | 1.965" Dia    | •             |         |
|                      | A1310B-5          | 2.325" Dia    | •             |         |
|                      | A1310B-6          | 2.47" Dia     | •             |         |
|                      | A1310B-7          | 2.555" Dia    | •             |         |
|                      | A1310B-8          | 2.83" Dia     | •             |         |
|                      | A1310B-9          | 2.995" Dia    | •             |         |
|                      | A1310B-10         | 3.18" Dia     | •             |         |
|                      | Steel Driver Disk | A1310SB-2     | 1.565" Dia    |         |
| A1310SB-3            |                   | 1.75" Dia     |               | •       |
| A1310SB-4            |                   | 1.965" Dia    |               | •       |
| A1310SB-5            |                   | 2.325" Dia    |               | •       |
| A1310SB-6            |                   | 2.47" Dia     |               | •       |
| A1310SB-7            |                   | 2.555" Dia    |               | •       |
| A1310SB-8            |                   | 2.83" Dia     |               | •       |
| A1310SB-9            |                   | 2.995" Dia    |               | •       |
| A1310SB-10           |                   | 3.18" Dia     |               | •       |



• Read safety precautions on pages W1 to W4

## BUSHING/SEAL: DRIVER SETS



ASD1

### ASD1 Universal Adjustable Bearing Race/Seal Driver

- Three stepped jaws quickly adjust to accommodate bearing races and seals from 0.7–3.39" (18–86 mm) eliminating the need for a driver and several different heads
- Step 1 jaw range: 0.7–2.2" (18–56 mm)
- Step 2 jaw range: 1.5–3.0" (39–77 mm)
- Step 3 jaw range: 1.89–3.4" (48–86 mm)
- Total depth/reach: 1.57" (40 mm)
- Can be used on domestic, Asian and European-built vehicles, including motorcycles
- Takes up less space in your tool storage than a typical bearing race/seal driver set

## COVERS



JCK7DBL



JCKDLXOD



JCK8

### Fender Covers

#### JCK7DBL Fender Cover

- Measures 26" W x 36" L (660.4 x 914.4 mm)
- For use on shorter fenders of most new vehicles
- High-density sponge rubber laminated to vinyl provides better protection and adherence to the fender
- Less susceptible to creasing
- Raised ribbing along center section provides tool holding space

#### JCKDLXOD Fender Cover

- Universal—conforms to the fender of any vehicle
- Easy to clean—machine washable
- Non-slip surface
- Durable, heavy weight neoprene fabric
- Water-resistant

#### JCK8 Fender Cover

- Measures 26"W x 36"L
- Non-slip, non-absorbent surface conforms to the fender of any vehicle
- Easy to clean with soap and water



KAC1224TCA

### Fuel Tank Cover

#### KAC1224TCA Motorcycle Gas Tank Cover

- Fits Harley-Davidson® Dyna®, Softail® and Touring models
- Fits various models of Yamaha®, Victory®, Triumph® and Kawasaki® motorcycles, plus many more
- Non-marring cover uses a non-abrasive inner liner that will not slide off



SEATCOVERBLU



SEATCOVERCAM



SEATCOVERDLX

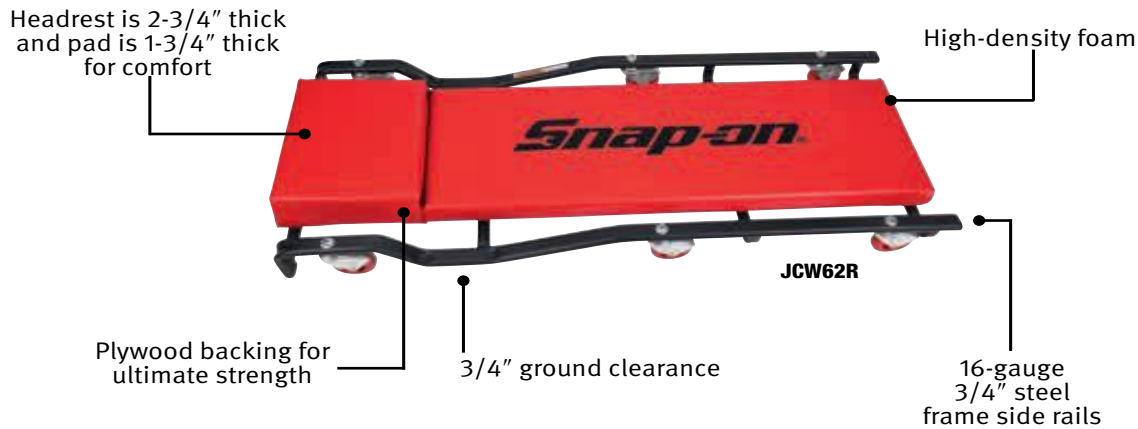
### Seat Covers

- Universal fit for virtually all vehicles
- Premium weight, durable fabric
- Water-resistant and machine washable
- Seat-lever compatible
- In-seat seat belt compatible

#### SEATCOVERBLU Snap-on Racing® Seat Cover

#### SEATCOVERDLX Deluxe Seat Cover

#### SEATCOVERCAM Deluxe Seat Cover

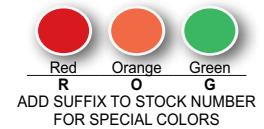


**Standard Creepers**

**JCW62† Standard Creeper**

- New flat-oval tubing eliminates sharp corners and provides increased comfort
- New caster profile reduces rolling resistance and delivers increased maneuverability
- Solid plywood core for strength and durability
- Fully padded with high-density 80 lb foam, 1-3/4" thick back and 2-3/4" thick headrest
- Heavy-duty vinyl cover
- 40" L x 17" W x 4" H

**Colors Available**



**JCPW42R**

**Specialty Creepers**

**JCPW42R Flat-Oval Big Wheel Creeper**

- New flat-oval tubing eliminates sharp corners and provides increased comfort
- 13" wide pad for greater support
- 6" rubber casters provide a smooth ride over tough terrain
- Solid plywood core for strength and durability
- High-density foam pad with integrated headrest
- Heavy-duty vinyl cover



**JCW45ABL**

**JCW45ABL Premium Creeper**

- New and improved molding process provides stronger
- New caster profile reduces rolling resistance and increases maneuverability
- Improved ground clearance reduces dragging over obstacles
- Integrated storage trays and handles for added convenience
- Chemical-resistant polyethylene body helps withstand tough shop conditions
- 38" L x 17" W x 4.75" H



• Do not stand or use as a cart  
 • †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

# CREEPERS



JCW67R

## Adjustable Creepers

| Stock No. | Overall Size, inches | Pad Length | Pad Width | Number of Casters | Caster Diameter |
|-----------|----------------------|------------|-----------|-------------------|-----------------|
| JCW67     | 40 L x 17 W x 4 H    | 39"        | 11"       | 6                 | 2-1/2"          |

### JCW67 Flat-Oval Adjustable Creeper

- New hinge mechanism allows for one-handed height adjustment
- Four-position headrest
- Flat-oval tubing eliminates sharp corners and provides increased comfort
- Caster profile reduces rolling resistance and delivers increased maneuverability
- Solid plywood core for strength and durability
- Fully padded with high-density 80 lb foam, 1-3/4" thick back and 2-3/4" thick headrest
- Heavy-duty vinyl cover
- 40" L x 17" W x 4" H

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



JCW72R

## Heavy-Duty Creepers

| Stock No. | Overall Size, inches  | Pad Length | Pad Width | Number of Casters | Caster Diameter | Adjustable |
|-----------|-----------------------|------------|-----------|-------------------|-----------------|------------|
| JCW72R    | 40 L x 22 W x 5-3/4 H | 39"        | 13"       | 4                 | 4"              |            |
| JCW77R    | —                     | 39"        | 13"       | 4                 | 4"              | •          |

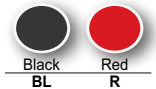
### JCW72 Flat-Oval Heavy-Duty Creeper

- Flat-oval tubing eliminates sharp corners and provides increased comfort
- 13" wide pad for greater support
- 4" casters and 1-3/8" ground clearance
- Solid plywood core for strength and durability
- High-density foam pad with integrated headrest
- Heavy-duty vinyl cover

### JCW77 Flat-Oval Adjustable Heavy-Duty Creeper

- New flat-oval tubing eliminates sharp corners and provides increased comfort
- New hinge mechanism allows for one-hand height adjustment
- Four-position headrest
- 13" wide pad for greater support
- 4" casters and 1-3/8" ground clearance
- Solid plywood core for strength and durability
- High-density foam pad
- Heavy-duty vinyl cover

### Colors Available



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS





**JCW80ABL**



**JCW80AO**

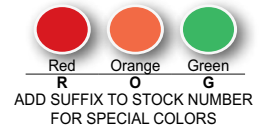
**Seat Creepers With Drawer**

| Stock No.  | Pad Color       | Overall Size, inches   | Seat Size, inches | Drawer Size, inches          |
|------------|-----------------|------------------------|-------------------|------------------------------|
| JCW80ABL   | Black           | 14-1/4 L x 19 W x 15 H | 10 L x 14-1/4 W   | 9-7/8 L x 11-1/2 W x 1-3/4 D |
| JCW80AR    | Red             | 14-1/4 L x 19 W x 15 H | 10 L x 14-1/4 W   | 9-7/8 L x 11-1/2 W x 1-3/4 D |
| JCW80AG    | Green           | 14-1/4 L x 19 W x 15 H | 10 L x 14-1/4 W   | 9-7/8 L x 11-1/2 W x 1-3/4 D |
| JCW80AO    | Orange          | 14-1/4 L x 19 W x 15 H | 10 L x 14-1/4 W   | 9-7/8 L x 11-1/2 W x 1-3/4 D |
| JCW80AMAX4 | Realtree MAX-4® |                        |                   |                              |

**JCW80AR Creeper Seat**

- Caster profile reduces rolling resistance and increases maneuverability
- Integrated storage drawer and parts tray
- 16-gauge 1" steel frame
- Solid plywood core for strength and durability
- High-density foam pad
- Heavy-duty vinyl cover

**Colors Available**



**Seat Creeper**

**JCW100TA Tight Access Seat Creeper**

- Tight access creeper seat offers a comfortable working position while being able to get close to the work without a frame interfering
- 2-1/2" oil-resistant Pro Blade™ wheel swivels easily while providing improved maneuverability
- Pad is made with heavy-duty vinyl, high-density foam, and sturdy USA-made plywood for long-lasting comfort and durability



**JCW100TA**

**Adjustable Seat Creepers**

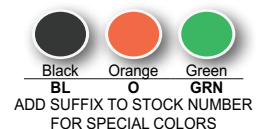
**JCW90CBL Creeper Seat**

- Heavy-duty 16-gauge, 1" steel tube frame
- New caster profile reduces rolling resistance and delivers increased maneuverability
- 380 lb weight capacity
- New memory foam seat is 12 x 12 x 2-1/8" thick
- Adjusts from 14–19-1/4" high
- Seat pad swivels 360°
- Steel storage tray measures 15 x 15" and has magnetic strip to hold small parts
- Overall dimensions: 15 L x 15 W x 21-1/2" H in fully extended position



**JCW90CBL**

**Colors Available**



• Do not stand on or use as a cart  
• Read safety precautions on pages W1 to W4

## CREEPERS



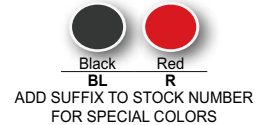
JCW85BR

### Bucket Seat Creepers with Drawer

#### JCW85BR Seat Creeper

- New caster profile reduces rolling resistance and increases maneuverability
- Integrated storage drawer and parts tray
- 16-gauge 1" steel frame
- Solid plywood core for strength and durability
- High-density foam pad
- Heavy-duty vinyl cover

#### Colors Available



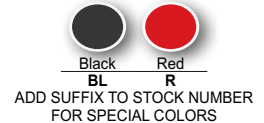
JCW95CR

### Adjustable Bucket Seat Creepers

#### JCW95CR Adjustable Bucket Seat Creeper

- New caster profile reduces rolling resistance and delivers increased maneuverability
- Heavy-duty 16-gauge, 1" steel tube frame
- Pneumatic cylinder adjusts from 14–19-1/4"
- Fully padded, vinyl, wide bucket seat measures 17-3/4 L x 10 W x 8" H
- Seat swivels 360°
- Steel storage tray measures 15 x 15" and has magnetic strip to hold small parts
- Overall dimensions: 17-3/4 L x 15 W x 28-1/4" H in fully extended position

#### Colors Available



JCWTANK



JCWEXT



JCWTSC

### Specialty Creepers

#### JCWTANK Heavy-Duty Off-Road Creeper

- Designed for use in the shop and the field
- Invaluable equipment for roadside service trucks, agricultural machinery repair, heavy-duty wreckers or construction equipment repair
- Unique wheel position allows user to swivel in place or change directions by simply leaning back on the headrest and pivoting on two wheels
- Solid 8" polyurethane wheels are puncture proof and provide a smooth ride on any surface
- Extra-wide pad and tilted headrest offer superior comfort
- Custom fenders protect clothing from dirt and entanglement while working
- Maximum capacity: 396 lb
- Field repairable
- Weight: 35 lb
- Dimensions: 28"W x 40"L x 8-3/4"H
- 8-1/4" x 2-2.5" solid core tires
- 1-5/8" ground clearance

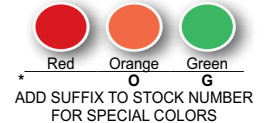
#### JCWEXT\* Under The Dash Creeper

- 15–30" height adjustment range
- Can be used on a wide variety of vehicles, from sports cars to full-sized trucks, with removable height extension bar
- Durable, powder coated metal frame with added bracing for improved stability when working on taller vehicles
- Tool-free height adjustment
- 300 lb working capacity

#### JCWTSC Heavy-duty Top Side Work Platform

- Angled chest pad provides comfortable, full-body support and allows for a wide range of motion while working
- Adjustable, 3-position ergonomic knee pads for greater comfort
- Convenient storage drawer keeps tools and parts within easy reach
- Platform can be positioned to access the engine from either the front or side of the vehicle
- 650 lb working capacity
- Tool-less platform height adjustment from 51–66"
- Quickly folds down for storage with no tools required
- Can be stored flat or upright—16" folded height
- Durable 3-1/2" casters for easy transport
- Includes four leveling-feet for use on uneven surfaces
- Frame ships fully assembled—ready to use in minutes
- Durable, powder-coated steel construction
- Made in the USA
- Dimensions: 51 x 36 x 16"
- Weight: 65 lb

#### Colors Available



## Electronic Micrometers

| Stock No. | Range                       | MICO-3E |
|-----------|-----------------------------|---------|
| MIC0-1E   | 0–1" (0–25.4 approx. mm)    | •       |
| MIC1-2E   | 1–2" (25.4–50.8 approx. mm) | •       |
| MIC2-3E   | 2–3" (50.8–76 approx. mm)   | •       |
| MIC3-4E   | 3–4" (76–101 approx. mm)    |         |
| MIC4-5E   | 4–5" (101–127 approx. mm)   |         |

### MIC0-3E 3 pc Electronic Micrometer Set

- Supplied in protective metal case with foam insert
- Foam insert with (2) extra pockets for additional micrometers (3–4 and 4–5")
- Supplied with (2) standards: 1 and 2"
- Accuracy (in)  $\pm 0.0001"$ , (mm)  $\pm 0.002$  mm
- Includes a large, easy-to-read, high-contrast LCD digital readout
- Hard and stable 1 pc friction thimble permits one-hand operation of micrometer and uniform contact pressure
- No-glare satin chrome finish on thimble and sleeve minimizes annoying surface glare under bright lights indoors
- Balanced frame design for comfortable and accurate measuring
- Hardened, CNC machine ground and hand lapped spindle screw
- Inch/millimeter metric conversion provides simple, universal, standardized unit of measurement at any position
- Measurement hold button
- Micro-lapped carbide measuring faces
- Preset button to install any reading at any position
- Automatic off functionality



MIC3-4E



MICO-3E

## Mechanical Micrometers

| Stock No. | Range, inches | Set Contains: |
|-----------|---------------|---------------|
| MICM1     | 0–1           | •             |
| MICM2     | 1–2           | •             |
| MICM3     | 2–3           | •             |
| MICM4     | 3–4           | •             |

### MICM0-4 Mechanical Micrometer Set 0–4"

- No-glare satin chrome finish which resists rust
- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- Insulated frame for prevention of temperature related expansion and contraction
- Provides quick and easy adjustment
- Reading in ten-thousandths of an inch (.0001") with a vernier scale on the sleeve



MICM1



MICM0-4



- Do not stand on or use as a cart
- Read safety precautions on pages W1 to W4

## MEASURING: MICROMETERS AND SETS



MIC22

### Micrometer Test Gauges

- Test gauges are used as micrometer standards
- Accuracy meets Federal Specifications

| Stock No. | Size  |
|-----------|-------|
| MIC22     | 1"    |
| MIC32     | 2"    |
| MIC42     | 3"    |
| MIC52     | 4"    |
| MIC2M2    | 25 mm |
| MIC3M2    | 50 mm |



MROUND4

### Small Hole Gauge Set

| Stock No. | Range, inches |
|-----------|---------------|
| CM4311    | 0.125–0.200   |
| CM4312    | 0.200–0.300   |
| CM4313    | 0.300–0.400   |
| CM4314    | 0.400–0.500   |

### MROUND4 Small Hole Gauge Set

- Knurled knob at handle for size adjustment
- Full round gauging surface with flat bottom

## MEASURING: SMALL HOLE AND TELESCOPING GAUGE SETS



GA2-6B



TEE6



MTEE6

### Telescoping Bore Gauges

| Stock No. | Range, inches | TEE6 | MTEE6 |
|-----------|---------------|------|-------|
| TEE6-1    | 5/16–1/2      | •    |       |
| TEE6-2    | 1/2–3/4       | •    |       |
| TEE6-3    | 3/4–1-1/4     | •    |       |
| TEE6-4    | 1-1/4–2-1/8   | •    |       |
| TEE6-5    | 2-1/8–3-1/2   | •    |       |
| TEE6-6    | 3-1/2–6       | •    |       |
| CM4349*   | 5/16–1/2      |      | •     |
| CM4350*   | 1/2–3/4       |      | •     |
| CM4351*   | 3/4–1-1/4     |      | •     |
| CM4352*   | 1-1/4–2-1/8   |      | •     |
| CM4353*   | 2-1/8–3-1/2   |      | •     |
| CM4354*   | 3-1/2–6       |      | •     |

\*Blue-Point®

### GA2-6B Dial Bore Gauge

- All anvils laser marked for easy selection
- Gauge chart for quick and easy anvil selection
- Carbide contacts for extended wear
- Graduations 0.0005"
- Approximate depth 6"
- Features 2–6" range of motion

### TEE6 Telescoping Gauges

- Constant spring tension gives uniform contact pressure
- Both plungers are easily locked at any desired setting
- Handles are rigidly attached to the contact plungers and are automatically self-centering

### MTEE6 Telescoping Gauges (Blue-Point®)

- Measurable depth is 4–5"
- Set of six, packaged in a plastic pouch



CNT3M512

### Inside Micrometer Set

#### CNT3M512 7 pc Inside Micrometer Set (Blue-Point®)

- Range is 2–12" in .001" increments
- Includes inside micrometer head and a series of coil spring pressure contact rods

## MEASURING: CALIPERS/MAGNETIC BASE



CAL6EA

### Calipers

#### CAL6EA 6" Electronic Caliper

- Stainless steel, .0005" resolution, and 0–6" measuring range
- Lightweight and comfortable
- Auto-off after 30 minutes, last measuring position is retained
- SAE/millimeter conversion reads .0005" or 0.01 mm
- Accuracy 0–4" ( $\pm 0.001$ ) 4–6" ( $\pm 0.015$ )
- Accuracy 0–100 mm ( $\pm 0.025$  mm) 100–150 mm ( $\pm 0.04$  mm)
- Hardened stainless steel body
- At .320" the digits on this tool are easy to read
- Beryllium copper gib in slide assembly and polished bar guarantees smooth operation
- Integrated depth rod
- Fine adjustment thumb wheel
- Zero at any position
- Supplied in storage case with foam insert



CAL6DA

#### CAL6DA 6" Dial Caliper

- White faced dial caliper, 0–6" range, .001" graduations
- Accuracy (in)  $\pm 0.01$
- Sharp, clear dial graduations
- Adjustable bezel
- Double rack pinion gears provides anti-backlash control
- Hardened stainless steel, all metal construction
- Beryllium copper gib in the slide assembly and polished bar guarantees smooth operation
- Depth rod covers rack to protect against damage
- Lock screw for sliding jaw and dial bezel
- Fine adjustment thumb wheel
- Supplied in plastic case with foam insert



CAL6V

#### CAL6V 6" Vernier Caliper

- Caliper includes metric/inch readings, 150 mm/6" range, .02 mm/.001" graduations
- Accuracy (in) 0–4" ( $\pm 0.001$ ) 4–6" ( $\pm 0.015$ )
- Accuracy (mm)  $\pm 0.025$  mm per 300 mm
- Lock screw for sliding jaw
- Hardened stainless steel depth rod
- Sharp, black graduations on satin chrome finish bar
- Laser etching on the vernier plate and bar guarantees an easy-to-read caliper
- Beryllium copper gib in the slide assembly and polished bar guarantees smooth operation
- Supplied in plastic case with foam insert



MCAL6A

### Calipers (Blue-Point®)

#### MCAL6A Electronic Digital Caliper (Blue-Point®)

- Range is 0–6" (0–150 mm) in 0.0005" (0.01 mm) resolutions
- Use for inside, outside, depth and step measurements
- Inch/metric conversion with one button
- Hardened stainless steel frame
- Large LCD display



MCAL12A

#### MCAL12A Electronic Digital Caliper (Blue-Point®)

- Essential for working on larger vehicles, trucks, tractors and earth-moving equipment
- Range is 0–12" (0–305 mm) in 0.0005" (0.01 mm) resolutions
- Used for inside, outside, depth and step measurements
- Inch/metric conversion with one button



PMF147A

- Large LCD display with floating zero set
- Locking nut and thumb roll for smooth action

#### PMF147A US/Metric Dial-Type Caliper (Blue-Point®)

- Range is 0–6" (0–150 mm) in 0.001" (0.1 mm) increments
- Includes a storage case

## MEASURING: DIAL TEST INDICATOR GAUGES



GA1UD

### Dial Gauges

#### GA1UD Universal Back Plunger Dial Indicator

- Range .200"
- Accurate, reliable and simple to operate
- Rugged, with few moving parts
- Smooth in operation
- Indicator with three contact points and adaptor
- Shank diameter is 1/4" (6.3 mm)
- Knurled bezel



GA1D

#### GA1D Dial Indicator

- Range 1.000"
- Dial Indicator has shockless, hardened steel gear train and jewel bearings
- Massive bridge for rigid bearing support
- Unbreakable crystal
- Rugged simple unit construction with a universally fitting design
- Hardened stainless steel stem, gears and pinions
- Sharp bezel serrations for positive grip

#### CM4374 Dial Indicator

- Range 1"
- Graduations .001"
- Continuous forward and reverse
- Reading with revolution counter
- Reading 0–100
- Diameter 2-1/4"
- Rack and pinion construction



**WARNING**



• Read safety precautions on pages W1 to W4

## MEASURING: DIAL TEST INDICATOR GAUGES



GA3640



GA3634



GA3645



GA3450

### Dial Test Indicator Sets

#### GA3640 Long Range Dial Test Indicator Set

- All-purpose indicator set
- Indicator with 0–1" range and .0005" graduations
- Easy-to-read white on black dial face
- Magnetic base attaches to flat surface
- Checks ball joint, tie rod, cam and valve guide wear, wheel rim, flywheel and disc brake runout
- Dial is continuous with revolution counter
- Bezel may be rotated for any setting point
- Includes powerful magnetic base with post, stepped rod and clamps along with contact, rod connector and indicator holding clamp
- Includes storage case

#### GA3634 Ball Joint/Disc Brake Test Indicator Set

- All-purpose indicator set
- Perfect for general use
- Indicator with 0–1" range and .0005" graduations
- Easy-to-read white on black dial face
- GA3640 uses a fixed magnetic base
- GA3645 uses a conforming magnetic base for more mounting options
- GA3634 uses locking pliers and a flexible gooseneck for non-magnetic applications and difficult areas
- Ideal for brake and undercar work

#### GA3645 Long Range Dial Test Indicator Set

- All-purpose indicator set
- Indicator with 0–1" range and .0005" graduations
- Easy-to-read white on black dial face
- Conforming magnetic base for more mounting options
- Checks ball joint, tie rod, cam and valve guide wear, wheel rim, flywheel and disc brake runout
- Dial is continuous with revolution counter
- Bezel may be rotated for any setting point
- Base includes adjustable swivel clamp for post and rod
- Includes storage case

#### GA3450 Universal Pinion Depth Gauge

- Allows quick and accurate pinion depth set for all aftermarket gear sets
- Works on OEM gear sets with pre-measurement of pinion depth
- Incorporates a swing arm assembly and indicator holder
- Indicator and three precision setting masters
- Gauge and components are stored in CM6547050 Case
- GA3450 is also included in the GA3460 Master Rear Axle Set

#### CM6564550 Storage Case

- Fits GA3645 long range dial test indicator set

### Dial Test Indicator Set Specifications

| Stock No. | Range      | Graduations | Reading |
|-----------|------------|-------------|---------|
| GA3640    | 1.00"      | .0005"      | 0–50    |
| GA3645    | 1.00"      | .0005"      | 0–50    |
| GA3634    | 1.00"      | .0005"      | 0–50    |
| GA3450    | 0.00–4.00" | .0005"      | 0–50    |



GA3625A



GA3601



GA3609

### Timing Gauges

#### GA3625A Timing Gauge (Blue-Point®)

- Two-cycle and small engine timing gauge
- 0–1" indicator with 0.001" graduations
- Easy-to-read black on white dial face
- 14 and 18 mm adaptors included
- For finding top dead center

### Contact Points and Extensions

#### GA3601 Dial Indicator Extension

- Use with GA3400, GA3634, GA3640 and GA3645 dial test indicators
- 4-48 female thread allows the extension of any contact point for special applications
- 6" long

#### GA3609 8 pc Contact Point and Extension Set

- Use with GA3400, GA3634, GA3640 and GA3645 dial test indicators
- 4-48 female thread allows the extension of any contact point for special applications
- Extensions can be joined together to extend reach
- Contact points feature a polished tip with radius end and are manufactured from hardened steel
- Includes (4) 1" extensions, (4) contact points (0.2, 0.4, 0.6 and 0.8") plus holder for set components

## MEASURING: DIAL TEST INDICATOR GAUGES

### Magnetic Bases

#### CM6416 Magnetic Holder

- Magnet has on/off switch
- Base is 2-3/8 x 1-7/8 x 2-1/2"
- Post is 7 x 15/16"
- Rod is 6 x 25/64"
- Will grip flat or curved metal surfaces

#### GA1FPMB Flex-O-Post Magnetic Base

- Complete assembly is for use with all test, back-plunger, AGD, dial and miniature dial indicators
- The flexible post is an assembly of short tubular steel sections and precision ball joints, linked by an internal steel cable
- The indicator snug on the end of the post can be rotated through 360° and locked in any position
- This makes it possible to use indicators in awkward places that are hard to reach with conventional holding devices
- Assembled to the magnetic base, the post has a vertical reach of approximately 15" (380 mm) and a horizontal reach of approximately 10" (250 mm)
- The base has three precision-ground magnetic contact surfaces
- V-step holds base to arbors, shafts, chucks

#### GA3JAMB Triple Joint Arm Magnetic Base

- This versatile indicator holder has three pivots available for positioning the indicator where needed
- All pivots are controlled by one tightening knob
- Works with any indicator with a 3/8" (9.5 mm) stem, standard dovetail mount, body clamp or with a 1/4" (6.3 mm) or 3/16" (4.7 mm) shank
- The working area is within a hemisphere having a radius of approximately 12" (300 mm)
- The very sensitive fine-adjustment is located on the magnetic base to eliminate indicator deflection when it is being adjusted



CM6416



GA1FPMB



GA3JAMB

## LEVELS

#### TL900L 9" Aluminum Lighted Level (Blue-Point®)

- Lighted level for more accurate readings under all conditions
- Machined Billet Aluminum for added durability
- Rare earth magnets attach to ferrous surfaces
- 45°, 90° and 180° scales for flexibility
- Auto shut-off feature after ten minutes extends battery life
- Uses two AAA alkaline cells (included)
- Sight glasses are backlit for better visibility

#### YA328A Magnetic Angle Locator (Blue-Point®)

- Ideal for checking the drive shaft angle
- Red degree indicator is located behind the numbers for exact reading of graduations
- SAE and metric scales molded into the base of the tool are 1/8" and centimeters
- Large 1-7/8 x 7/8" magnet in the base for secure retention



TL900L



YA328A

## MEASURING: FEELER GAUGES

### Feeler Gauges, Ignition

| Stock No. | No. of Blades | Blade Dimensions, inches | Blade Size, inches   | Increments | Description   |
|-----------|---------------|--------------------------|--|------------|---|
| FB316B‡   | 18            | 1/4 x 1-3/4              | .010, .012, .013, .015-.022, .024-.026, .028, .030, .032, .035   | .001"      | Short Blade, Ignition Gauge Set, Double Stamped with SAE and Metric Sizes |
| FB326B‡   | 26            | 1-1/2 x 3, 1/4 x 1-3/4   | .003, .004, .005, .006, .007, .008, .010, .012, .013, .015, .017, .018, .020, .022, .024, .026, .028, .030, .032, .035 | .001"      | Double Stamped with SAE and Metric Sizes                                  |



FB316B



FB326B



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# MEASURING: FEELER GAUGES



**FB310B**



**FB325A**



**FB335**



**FBL325A**



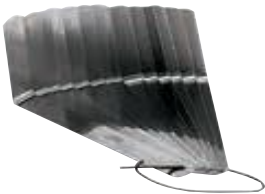
**FBM320**

## Feeler Gauges, General Use



**FB31S**

| Stock No.        | No. of Blades | Blade Dimensions, inches | Blade Size                                     | Increments | Description  |
|------------------|---------------|--------------------------|--|------------|--|
| <b>FB310B</b> ‡  | 13            | 1/2 x 3                  | .001, .0015, .002-.008, .010, .012, .013, .015 | —          | Double Stamped with SAE and Metric Sizes                 |
| <b>FB325A</b> ‡  | 25            | 1/2 x 3                  | .0015, .002-.025                               | .001"      | Double Stamped with SAE and Metric Sizes                 |
| <b>FB335</b> ‡   | 35            | 1/2 x 3                  | .0015, .002-.035                               | .001"      | Feeler Gauge Blade                                       |
| <b>FBL325A</b> ‡ | 25            | 1/2 x 12                 | .0015, .002-.021, .025, .027, .030, .040       | .001"      | 12' Long Blade, Double Stamped with SAE and Metric Sizes |
| <b>FBM320</b> ‡  | 20            | 1/2 x 3                  | .05-1 mm                                       | .05 mm     | Metric Feeler Gauge Set                                  |
| <b>FB31S</b>     | 31            | 1/2 x 3                  | .0015-.035                                     | —          | —  |



**FB307D**

## Feeler Gauges, Diesel

| Stock No.     | No. of Blades | Blade Dimensions, inches | Blade Size   | Increments | Description  |
|---------------|---------------|--------------------------|--|------------|--|
| <b>FB307D</b> | 14            | 1/2 x 6                  | .008, .011-.014, .016, .018, .020, .023-.025, .027, .029 | .001"      | Bent Blade Cummins® Diesel, Blade Ends are Bent at 90° Angle; Blades are Secured on FB307C1 Ring |



**FB300A**



**FB308D**



**FB322**



**FB328A**

## Feeler Gauges, Bent and Step



**FBM322**

| Stock No.       | No. of Blades | Blade Dimensions, inches | Blade Size  | Increments | Description   |
|-----------------|---------------|--------------------------|---|------------|---|
| <b>FB300A</b> ‡ | 25            | 1/2 x 3                  | .006-.030   | .001"      | Feeler Gauge Set, Blade Ends are Angled at 45°                                      |
| <b>FB308D</b> ‡ | 12            | 1/2 x 3                  | .008-.010, .011-.013, .013-.015, .014-.016, .015-.017, .017-.019, .018-.020, .020-.022, .023-.025, .025-.027, .028-.030 | .001"      | Step Feeler Gauge Set   |
| <b>FB322</b> ‡  | 22            | 1/2 x 3                  | .004-.006, .025-.027  | .001"      | Step Blades with 2 Sizes Each   |
| <b>FB328A</b> ‡ | 2             | 1/2 x 3                  | .011-.013, .013-.015  | —          | For Valve Adjustment on GM® 8.2 L Engines, Double Stamped with SAE and Metric Sizes |
| <b>FBM322</b> ‡ | 2             | 1/2 x 3                  | .20-.30, .40-.50 mm   | —          | Step Blade with 10-3/4" Long Bent Handle  |



## Feeler Gauges, Specialty

| Stock No. | No. of Blades | Blade Dimensions, inches | Blade Size   | Increments     | Description (Chart)                               |
|-----------|---------------|--------------------------|--|----------------|---|
| FB3330 ‡  | 10            | 1/2 x 4                  | .010, .012, .014, .016, .018, .020, .022, .024, .027, .030 | .002 and .003" | Double Stamped with SAE and Metric Sizes          |
| FB305A ‡  | 6             | 1/2 x 3                  | .006, .008, .010, .012, .014, .016                         | .002"          | Non-Magnetic, Double Stamped SAE and Metric Sizes |

### FB3330 ‡ Easy Grip Feeler Gauge Set (Blue-Point®)

- Double stamped with SAE and metric sizes
- Ten feeler gauges with orange screwdriver-type handles
- Blades feature a 45° offset for use on valve tappets and air gapping applications
- Includes (10) blades—sizes .010–.030"

### FBP10 ‡ Pocket Feeler Blade

- Flat, ramp-style feeler gauge handles the range of spark plug gapping requirements from .020–.080"
- Reverse side has a metric scale to 2 mm
- Orange screwdriver-type handle with a pocket clip, 5-1/2" length

### FB305A ‡ Feeler Gauge (Blue-Point®)

- Non-magnetic feeler gauge set
- Double stamped with SAE and metric sizes



FB3330



FBP10



FB305A

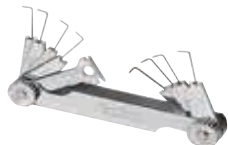
## Feeler/Gap Gauge Set

### FBS5 ‡ Feeler and Gap Gauge Set (Blue-Point®)

- 5 pc set includes: FB300A bent blade feeler gauge, FB305A non-magnetic feeler gauge, and FB325A general use feeler gauge, plus GA461C and FB360C spark plug gap gauges in the FBS5-1 kit bag



FBS5



FB301A



FB302A



FB303B



FB360C



FB361A



GA461C

## Spark Plug Gauges/Gappers

### FB301A ‡ Wire Gap for Point Ignition Systems Gauge (Blue-Point®)

- Includes eight wires in sizes .020", .022", .025", .028", .030", .032", .035" and .040" and electrode bender

### FB302A ‡ Wire Gap for Aircraft, Motorcycle, and Small Engines Gauge

- Includes eight wires in sizes .015, .016, .018, .020, .025, .028, .030, .035" and electrode bender

### FB303B ‡ Wire Gap for Electronic Ignition Systems Gauge

- Includes six wires in sizes .044", .045", .050", .054", .060" and .080" and electrode bender

### FB360C ‡ Gap for Electronic Ignition Systems Gauge (Blue-Point®)

- Includes six wire sizes: .040", .044", .045", .050", .060" and .080"

- Double stamped with SAE and metric sizes

### FB361A Gapper Gauge (Blue-Point®)

- Pocket size gapper features an inclined ramp for setting gap
- 1-1/2" dia

- Range .020–.100"
- Double stamped with SAE and metric sizes

### GA461C Gap for Point Ignition Systems Gauge

- Includes six wires protruding 1/4" from edge of metal disc

- Wire sizes are .025", .030", .034", .035", .040" and .045"
- Built-in electrode bender

- Double stamped with SAE and metric sizes



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**MEASURING: FEELER/SPARK PLUG GAUGES****Replacement Feeler Blades**

| Snap-on Sets | FB335, FB325A, FB326B | FB300A         | FB3330         | FBL325A       |
|--------------|-----------------------|----------------|----------------|---------------|
| SAE Size     | 1/2 x 3 Flat          | 1/2 x 3 Offset | 1/2 x 4 Offset | 1/2 x 12 Flat |
| 0.001        | FB1B001               | —              | —              | FB6B001*      |
| 0.0015       | FB1B0015              | —              | —              | FB6B0015      |
| 0.002        | FB1B002               | —              | —              | FB6B002       |
| 0.0025       | FB1B0025              | —              | —              | FB6B0025*     |
| 0.003        | FB1B003               | —              | —              | FB6B003       |
| 0.004        | FB1B004               | —              | —              | FB6B004       |
| 0.005        | FB1B005               | FB14A005*      | —              | FB6B005       |
| 0.006        | FB1B006               | FB14A006       | YA3330-6*†     | FB6B006       |
| 0.007        | FB1B007               | FB14A007       | YA3330-7*†     | FB6B007       |
| 0.008        | FB1B008               | FB14A008       | YA3330-8*†     | FB6B008       |
| 0.009        | FB1B009               | FB14A009       | YA3330-9*†     | FB6B009       |
| 0.010        | FB1B010               | FB14A010       | YA3330-10†     | FB6B010       |
| 0.011        | FB1B011               | FB14A011       | YA3330-11*†    | FB6B011       |
| 0.012        | FB1B012               | FB14A012       | YA3330-12†     | FB6B012       |
| 0.013        | FB1B013               | FB14A013       | YA3330-13*†    | FB6B013       |
| 0.014        | FB1B014               | FB14A014       | YA3330-14†     | FB6B014       |
| 0.015        | FB1B015               | FB14A015       | YA3330-15*†    | FB6B015       |
| 0.016        | FB1B016               | FB14A016       | YA3330-16†     | FB6B016       |
| 0.017        | FB1B017               | FB14A017       | YA3330-17*†    | FB6B017       |
| 0.018        | FB1B018               | FB14A018       | YA3330-18†     | FB6B018       |
| 0.019        | FB1B019               | FB14A019       | YA3330-19*†    | FB6B019       |
| 0.020        | FB1B020               | FB14A020       | YA3330-20†     | FB6B020       |
| 0.021        | FB1B021               | FB14A021       | YA3330-21*†    | FB6B021       |
| 0.022        | FB1B022               | FB14A022       | YA3330-22†     | FB6B022*      |
| 0.023        | FB1B023               | FB14A023       | YA3330-23*†    | FB6B023*      |
| 0.024        | FB1B024               | FB14A024       | YA3330-24†     | FB6B024*      |
| 0.025        | FB1B025               | FB14A025       | YA3330-25*†    | FB6B025       |
| 0.026        | FB1B026               | FB14A026       | YA3330-26*†    | FB6B026*      |
| 0.027        | FB1B027               | FB14A027       | YA3330-27†     | FB6B027       |
| 0.028        | FB1B028               | FB14A028       | YA3330-28*†    | FB6B028*      |
| 0.029        | FB1B029               | FB14A029       | YA3330-29†     | FB6B029*      |
| 0.030        | FB1B030               | FB14A030       | YA3330-30†     | FB6B030       |
| 0.031        | FB1B031               | —              | YA3330-31*†    | FB6B031*      |
| 0.032        | FB1B032               | —              | YA3330-32*†    | FB6B032*      |
| 0.033        | FB1B033               | —              | YA3330-33*†    | FB6B033*      |
| 0.034        | FB1B034               | —              | YA3330-34*†    | FB6B034*      |
| 0.035        | FB1B035               | —              | YA3330-35*†    | FB6B035*      |
| 0.039        | FB1B039               | —              | —              | —             |
| 0.040        | FB1B040               | —              | YA3330-40*†    | FB6B040       |

† Includes blade holder

\* Optional

## MEASURING: THREAD IDENTIFICATION

### Thread Identification

#### T1DG Drill Gauge

- Leaves the right amount of stock for approximately 65% full thread
- Easy-to-read white lettering on matte black finish
- Shows correct drill body size
- 60 holes with number sizes and decimal equivalents
- Made of hardened steel to resist wear
- Tested for accuracy and hardening

#### T27GS SAE Thread Gauge

- 27 leaves
- 1/4"-28 TPI

#### T28GM Metric Thread Gauge

- 28 leaves
- .25–2.5 mm
- Quickly determine the pitch of various threads
- Leaves on most gauges have a special narrow design, permitting checking of internal threads as well as external threads
- Clearly graduated on polished finish
- Locking device



T1DG



T27GS



T28GM



T60K

#### T60K Thread Measurement Kit

- Drill gauge with both SAE and metric thread pitch gauges in one kit
- Drill gauge provides correct sizing of a tap drill for any commonly sized machine screw tap in NF National Fine or NC National Coarse Thread Series (numbers 1–60 and .228–.040")
- Leaves on most gauges have a special narrow design, permitting checking of internal threads and external threads
- Leaves the right amount of stock for approximately 6 5% full thread
- Easy-to-read white lettering on matte black finish
- Shows correct drill body size
- 60 holes with number sizes and decimal equivalents
- Made of hardened steel to resist wear
- Tested for accuracy and hardening
- Clearly graduated on polished finish
- Locking device
- Fits in your pocket
- Packaged in red plastic box with foam insert

## MEASURING: MEASURING SETS



COMBOSQ3



SQUAREB12



SQUARECOMB12

### Measuring Sets

#### COMBOSQ3 Combination Square

- Includes reversible lock bolt, scribe, spirit level in both square head and protractor head
- Direct reading double 180° protractor
- Forged and hardened steel heads with smooth black enamel finish
- Spring-tempered steel blade
- Blade has non-glare satin chrome finish
- Blade has deep, black filled, chemical machined graduations that will last a lifetime
- Supplied in protective plastic case with foam insert

#### SQUAREB12 Machinist's Measuring Set (Blue-Point®)

- Includes SQUAREB90 sliding head and RULER12BSQ steel rule in fitted storage case

#### SQUARECOMB12 Combination Measuring Set (Blue-Point®)

- Includes SQUAREB180 protractor, RULER12BSQ steel rule plus SQUAREB90 and SQUAREB45 sliding heads in fitted storage case

#### SQUAREB90 Sliding Head (90°) (Blue-Point®)

- 90° square head with bubble level and scribe points

#### SQUAREB180 Protractor Head (180°) (Blue-Point®)

- Protractor is graduated 180° in both directions
- Includes bubble level

#### RULER12BSQ 12" Steel Rule (Blue-Point®)

- Precision ground and hardened steel blade for greater accuracy
- Graduated in 1/8" and 1/16" increments on one side and 1/32" and 1/64" increments on the other

#### SQUAREB45 Sliding Head (45°) (Blue-Point®)

- Center head for 45° angles only

## MEASURING: STRAIGHT EDGES AND STEEL RULES

### Precision Straight Edges

- Use with feeler gauges to check for distortion in engine blocks, cylinder heads, flywheels, main bearing saddles, cam bearing saddles, cam covers and bell housings
- Precision working edge ground to within .0002" per 12" in length
- Great stability with 1/4" thickness and 1-1/2" width
- Convenient hanging hole and edge protector



GA435



GA438A



GA535

#### GA435 Precision Straight Edge

- Wide range of applications

#### GA438A 24" Precision Straight Edge

- Use with feeler gauges to check for distortion in engine blocks, cylinder heads, flywheels, main bearing saddles, cam bearing saddles, cam covers and bell housings

- Precision working edge ground to within .0002" per 12" in length
- Great stability with 1/4" thickness and 1-1/2" width
- Convenient hanging hole and edge protector

#### GA535 Precision Straight Edge

- 35" long



• Read safety precautions on pages W1 to W4

## MEASURING: STRAIGHT EDGES AND STEEL RULES



### Steel Rules

#### RULER6 6" Steel Rule

- Graduations in 1/8", 1/16", 1/32" and 1/64"
- Spring-tempered steel
- Non-glare satin chrome finish
- Deep, black-filled, chemical machined graduations that will last a lifetime
- Quick reading, end graduations
- Ruler measures edge-to-edge
- Fits in the user's pocket

#### RULERF12 Chrome 12" Flexible Rule

- 12" fully flexible steel ruler with a satin chrome finish
- Lengths include 1/8", 1/16", quick-reading 1/32" and 1/64"
- 1/2" wide ruler with 1/64" thickness
- Rules with a double row of inch figures, and each edge represents the bottom edge reading left to right (rules 1" and wider)

#### RULER120 US/Metric Steel Rule

- 12" stainless steel rule
- 1/32" increments for first 3", 1/16" increments for last 9"
- Metric edge is etched with mm and cm increments

#### RULER600 Steel Rule

- 6" Eng Ruler
- Graduated in 1/32" and 1/64" increments

#### RULER601 6" Steel Rule (Blue-Point®)

- 6" stainless steel rule
- Graduated in 1/10" and 1/50" increments on one side, 1/32" and mm increments on the other

#### RULER602 6" SAE/Metric Pocket Rule

- 6" stainless steel rule with pocket clip
- 1/32" and 1/64" increments on one side, mm and cm increments on the other

#### RULERF6 Chrome 6" Flexible Rule

- 6" full flexible steel ruler with satin chrome finish
- Rules with single row of inch figures (all rules under 1" width)
- 1/2" wide ruler with 1/64" thickness

#### RULERF12 Chrome 12" Flexible Rule

- 12" fully flexible steel ruler with a satin chrome finish
- Lengths include 1/8", 1/16", quick-reading 1/32" and 1/64"
- 1/2" wide ruler with 1/64" thickness
- Rules with a double row of inch figures, and each edge represents the bottom edge reading left to right (rules 1" and wider)

## TAPE RULES



### Tape Rules

#### TPMA10 10' Tape Rule

- 1/2" x 10' tape
- Includes SAE/metric scale with fractions

#### TPMA12 12' Tape Rule

- 3/4" x 12' tape
- Includes SAE scale with 16" stud markings

#### TPMA25 25' Tape Rule

- 1" x 25' tape
- Includes SAE scale with 16" stud markings

#### TPMAM5 5 m Tape Rule

- 19 mm x 5 m tape
- Includes metric scale

#### TPMA25EM 25' Tape Rule

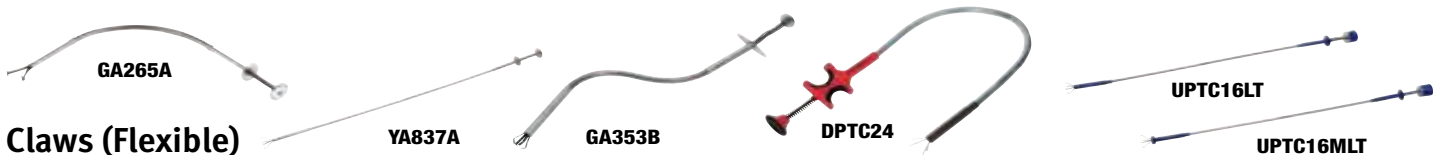
- 1" x 25'/7 m tape
- Includes SAE/metric scale with fractions

### Tape Rules

#### TPM100 Tape Rule (Blue-Point®)

- Includes inch/metric scale
- Quick rewind design for ease of use
- Rewinding lever conveniently stored in housing
- Nonslip grip provides confidence and comfort

## MIRRORS/PICK-UP TOOLS



### Claws (Flexible)

| Stock No.  | No. of Claws | Maximum Jaw Opening, inches | Flexible Section Length, inches | Overall Length, inches |
|------------|--------------|-----------------------------|---------------------------------|------------------------|
| GA265A     | 2            | 1                           | 8                               | 17-3/4                 |
| YA837A     | 4            | 3/4                         | 16                              | 23-1/2                 |
| GA353B     | 4            | 1                           | 8                               | 17-1/2                 |
| DPTC24     | 4            | 1-1/4                       | 24                              | 24-1/2                 |
| UPTC16LT   | 4            | —                           | 16-3/4                          | —                      |
| UPTC16MLT* | 4            | —                           | 16-3/4                          | —                      |

\*Lighted

#### UPTC16MLT Lighted Flexible Spring Claw (Blue-Point®)

- Magnet is able to pick up a maximum of 5 lb
- Four-jaw claw opens wide to secure hard to reach objects
- Heavy-duty aluminum plunger with convenient side switch turns on/off bright LED Light as needed

- Tightly wound flexible spring snakes into tight areas
- Includes (2) CR2032 lithium batteries
- 25-11/16" long

[Snapon.com](http://Snapon.com) 1.877.762.7664

## Magnetic

### DPTM24A Flexible Magnetic Pick-Up Tool (Blue-Point®)

- In the retracted position, magnet will not adhere to un-targeted ferrous metals
- Depress plunger to expose magnet from shroud and grab desired object
- 17" flexible shaft easily maneuvers through tight spots
- Cushion grip handle provides comfort and control

### PHT5RD\* Telescopic Magnetic Pickup Tool (Blue-Point®)

- Telescopic magnetic pickup tool (Blue-Point®)
- Telescopes from 5-1/2"-25-1/4"
- POWERCAP® shields sides of magnet for focused lifting
- Cushion grip will not slip in oily or wet hands
- Includes pocket clip

### PT10C Pick-Up Tool (Blue-Point®)

- Lifts 1 lb, 8-5/8" long

### PT28E Pick-Up Tool (Blue-Point®)

- Lifts 2 lb
- 16-3/4" long and extends to 26-3/4"
- Aluminum head
- Probe O.D. is 1/2"

### PT30C Pick-Up Tool (Blue-Point®)

- Lifts 6-1/2 lb
- 17" long and extends to 27-1/8"

### PT40B Flexible Magnetic Pick-Up Tool (Blue-Point®)

- Magnet lifts 3-1/2 lb
- Length is 21", including a 14" flexible section

### PT5C\* Telescopic Magnetic Pick-Up Tool (Blue-Point®)

- Lifts up to 2 lb
- Chrome plated shaft extends from 5-7/8"-25-9/16"
- Includes pocket clip

### PT7B Magnetic Pick-Up Tool (Blue-Point®)

- Lifts 1 lb, 6" long

### PTIM5 Pick-Up and Inspection Tool (Blue-Point®)

- Magnet end lifts 1-1/2 lb
- Length is 26-3/4" extended, closes to 5-7/8"
- Mirror end is 1-1/4" in diameter
- Includes pocket clip

### PTS5 Magnetic Pick-Up Tool/Scribe (Blue-Point®)

- Magnet in one end and a replaceable carbide steel scribe tip at the other
- 5" long, do not use as a pry bar or punch
- Includes pocket clip

### UIMPHT20RD\* 2 pc Magnetic Mirror Kit (Blue-Point®)

- 2-1/4" dia. mirror head
- All-angle ball joint holds mirror firmly at any angle
- Telescopes from 6-1/2"-35"
- POWERCAP® shields sides of magnet from unwanted metal surfaces
- Lifts up to 2-1/2 lb
- Magnet telescopes from 5-1/2"-25-1/4"
- Colored cushion grips will not slip in oily or wet hands

### UPT100 10 lb Magnetic Pick-Up Tool (Blue-Point®)

- Magnetic head designed to increase power of the magnet and minimize the flux on the sides
- Lifts 10 lb
- Sturdy stainless steel antenna for durability
- Telescopes from 5-3/4"-25-3/4"
- Textured cushioned grip will not slip in wet or oily hands
- Convenient pocket clip keeps the tool convenient and secure

### UPT15 Telescoping Magnetic Pickup Tool (Blue-Point®)

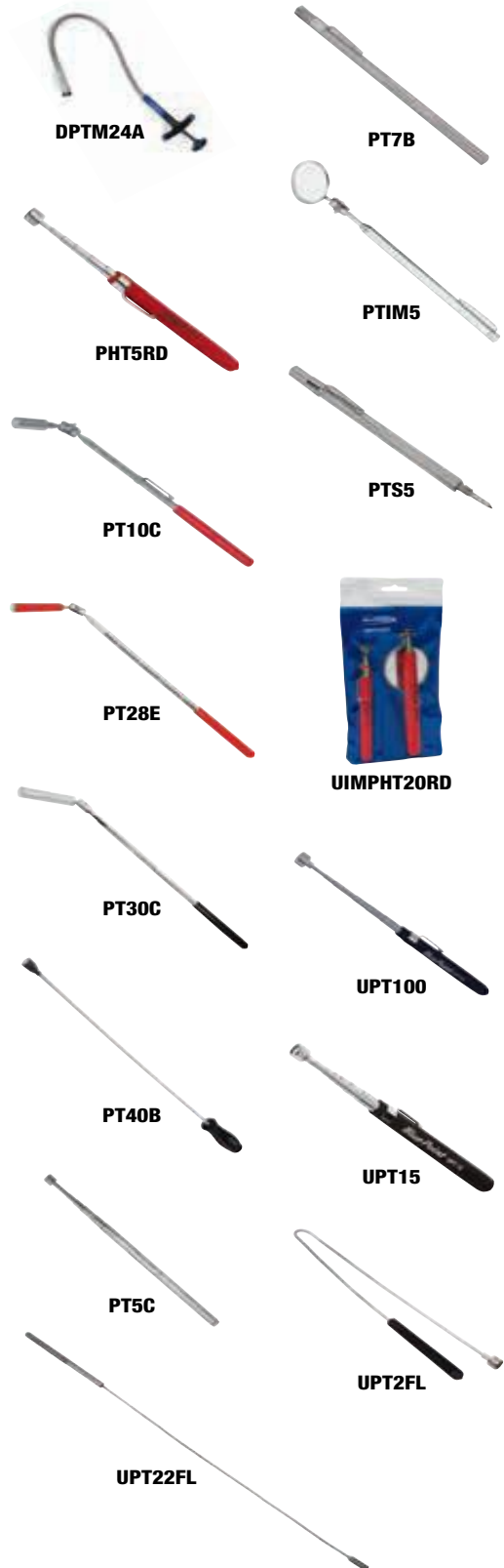
- Lifts up to 2 lb
- 6-5/8" long and extends to 33-1/4"

### UPT2FL Flexible Magnetic Pick-Up Tool (Blue-Point®)

- 29" aluminum shaft can be easily bent at any angle
- POWERCAP® slides over the magnet and shields its sides from attaching to unwanted metal surfaces
- Lifts up to 5 lb

### UPT22FL 22" Flex Magnetic Pick-Up Tool

- Super-strength neodymium/iron/boron extra-high flux magnet for greater pick-up power
- Shaft can be bent into almost any position and remains there for steadier, easier retrieval
- Knurled aluminum handle for added grip
- Capable of lifting up to 1.5 lb of ferrous material



Colors Available



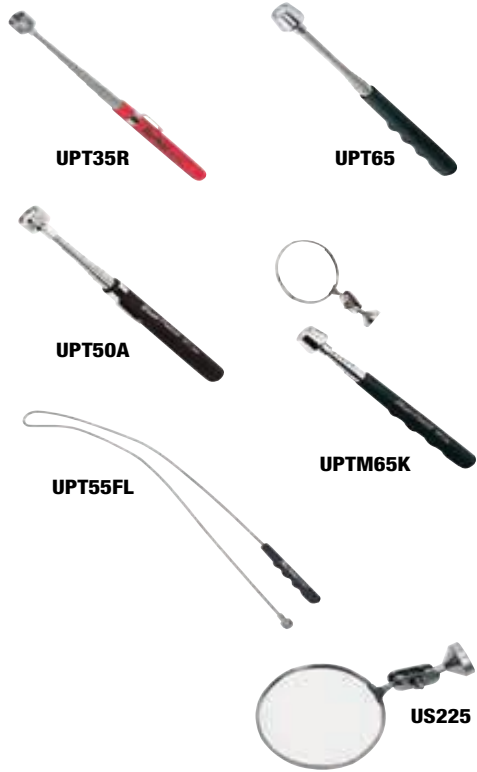
Red Orange Green

\* RD OR GR  
ADD SUFFIX TO STOCK NUMBER  
FOR SPECIAL COLORS



• Read safety precautions on pages W1 to W4

# MIRRORS/PICK-UP TOOLS (Blue-Point®)



## Magnetic

### UPT35R \* Telescoping Magnetic Pick-Up Tool (Blue-Point®)

- POWERCAP® shields the side of the magnet from attaching to unwanted metal surfaces
- Lifts up to 5 lb
- 7-1/4" long and extends to 33-3/4"
- Sturdy stainless steel antenna
- Textured cushion grip will not slip in wet or oily hands

### UPT50A Telescoping Magnetic Pick-Up Tool (Blue-Point®)

- Lifts up to 10 lb
- 6-5/8" long and extends to 33-1/4"

### UPT55FL Extra-Long Flexible Magnetic Pick-Up Tool (Blue-Point®)

- Strong, flexible aluminum shaft can be bent to any angle to retrieve metal objects in hard to reach areas
- Strong Neodymium-Iron-Magnet lifts 5 lb
- Overall length 55"
- Comfortable Textured Cushion Grip will not slip in wet or oily hands

### UPT65 Telescoping Magnetic Pick-Up Tool (Blue-Point®)

- Goblet shaped magnetic head directs the flux to the front of the magnet to lift up to 16 lb
- Head shields the sides of the magnet from attaching to unwanted ferrous surfaces
- 9" long and extends to 34-1/4"

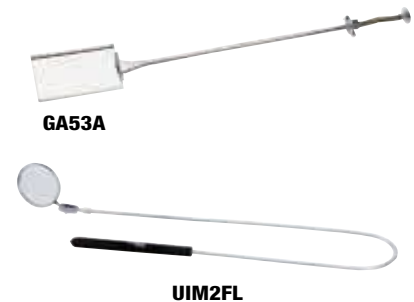
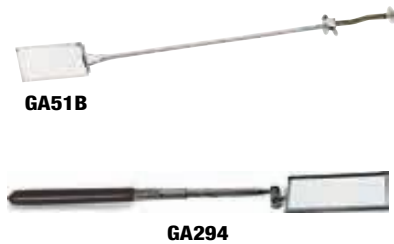
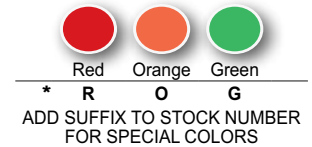
### UPTM65K Magnetic Inspection Kit (Blue-Point®)

- Includes UPT65 pick-up tool and US225 inspection mirror in vinyl pouch

### US225 Inspection Mirror (Blue-Point®)

- Attaches to UPT65 pick-up tool
- Dual ball adjustment provides 2-1/4" dia. infinite positioning

Colors Available



## Hinged Mirrors (Blue-Point®)

| Stock No. | Overall Length, inches | Mirror Size, inches | Glass Replacement Mirror | Plastic Replacement Mirror |
|-----------|------------------------|---------------------|--------------------------|----------------------------|
| GA51B     | 16-1/2                 | 1-11/16 x 2-9/16    | GA51B1                   | GA51B1P                    |
| GA52B     | 11                     | 1-3/16 x 1-1/2      | GA52B1                   | —                          |
| GA53A     | 16-1/2                 | 2-5/16 x 3-3/8      | GA53A1                   | GA53A1P                    |

### GA294 2-1/8 x 3-1/2" Mirror with 15" Shaft (Blue-Point®)

- 2-1/8 x 3-1/2" mirror with 15" shaft
- Has double ball joints that allow mirror to swivel a full 360°
- Electrolytic-plated copper backing
- Features non-rotating telescoping rods
- Vinyl grip
- Closed length is 11-1/4"; extended length is 15-1/4"

### GA295 2-1/4" Round Mirror with 14" Shaft (Blue-Point®)

- 2-1/4" round mirror with 14" shaft
- Has double ball joints that allow mirror to swivel a full 360°
- Electrolytic-plated copper backing
- Features non-rotating telescoping rods
- Vinyl grip
- Closed length is 10"; extended length is 14"

### UIM2FL Flexible Inspection Mirror (Blue-Point®)

- 32" aluminum shaft can easily be bent to any angle
- 2-1/4" mirror is encased in a rugged stainless steel head
- All-angle ball joint holds mirror head tightly at any angle
- Textured cushion grip will not slip in wet or oily hands

## Pocket Mirrors

### PTM143 Round Pocket Mirror (Blue-Point®)

- Handle extends from 4-1/2–17"
- 1-1/4" in diameter
- Hinge mechanism allows 360° adjustment
- Includes pocket clip

### CF143MA 17" Round Pocket Magnifying Mirror (Blue-Point®)

- Handle extends from 4-1/2–17"
- 1-1/4" Dia
- Hinge mechanism allows 360° adjustment
- Includes pocket clip

### PTM147 Round Pocket Mirror (Blue-Point®)

- Handle extends from 4-1/2–17"
- 3/4" in diameter
- Hinge mechanism allows 360° adjustment
- Includes pocket clip

### PTM157 Oval Pocket Mirror (Blue-Point®)

- Handle extends from 4-1/2–17"
- 1 x 2" oval
- Hinge mechanism allows 360° adjustment
- Includes pocket clip



## Telescoping Mirrors

### TKSS01MIR Telescoping Hinged Steel Mirror (Blue-Point®)

- Steel mirror will not shatter if dropped
- Hinged for accurate positioning, telescopes from 7–28-1/2" (177.8–723.9 mm)
- Mirror surface is 3.12 x 2" (79.4 x 50.8 mm)
- Easily fits into shirt pocket when retracted

### UIM125 Telescoping Inspection Mirror (Blue-Point®)

- 1-1/4" dia. mirror
- 6-1/2" long and extends to 35"

### UIM225RD\* Telescoping Inspection Mirror (Blue-Point®)

- 2-1/4" dia. mirror head
- All-angle ball joint holds mirror firmly at any angle
- Telescopes from 6-1/2–35"

### UIM2LM Magnifying Inspection Mirror (Blue-Point®)

- Stainless steel handle telescopes 11-1/2–51-1/2"
- 2-1/4" magnifying mirror enlarges viewing area
- All-angle ball joint holds the mirror head tightly at any angle
- Textured cushion grip will not slip in wet or oily hands

### UIM2NR No Swivel Rectangular Telescoping Mirror (Blue-Point®)

- All-angle ball joint holds the mirror head firmly at any angle
- Stainless steel handle is long, strong and lightweight
- Heavy-duty grip will not slip in wet or oily hands
- Adjusts from 6-3/4–29-3/4"
- 2-9/16 x 3-3/4" rectangular head

### UIM325 Telescoping Inspection Mirror (Blue-Point®)

- 6-1/2" long, and extends to 29-1/2"
- Mirror is 3-1/4" dia



Colors Available



\* RD OR GR  
ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

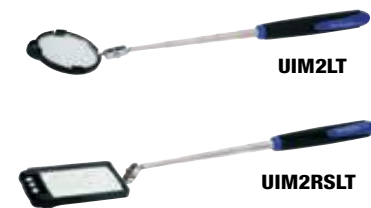
## LED Telescoping Mirrors

### UIM2LT Lighted Telescoping Inspection Mirror (Blue-Point®)

- LED light illuminates dark hidden areas
- Telescopes from 6-3/4–37" to facilitate accurate inspections
- Mirror is 2-3/8"
- Angle ball joint firmly holds lighted mirror at any angle for perfect viewing
- Cushioned handle will not slip in wet or oily hands
- Uses (2) CR2016 batteries

### UIM2RSLT LED Lighted Inspection Mirror (Blue-Point®)

- Telescopes from 6-3/4–30" for fast, accurate inspections
- Mirror is 3-1/4 x 1-1/8"



• Read safety precautions on pages W1 to W4

## BRAKE SERVICE TOOLS



YA4000B

### Vacuum Pressure Pump Kits

#### YA4000B † Automotive Test Kit (Blue-Point®)

- Produces vacuum or pressure at the turn of a switch
- Used for vacuum and pressure-related engine performance diagnostics and tune-ups; brake bleeding; fluid transfer, evacuation and sampling
- One-finger trigger vacuum/pressure release
- Durable, accurate diaphragm-type vacuum/pressure gauge
- Handheld vacuum/pressure pump with 2" compound gauge and rubber boot
- 12 oz fluid reservoir bottle with fluid transfer and storage lids, plus fluid pick-up tube
- Kit contains multiple accessories as shown, including tapered manifold plugs, vacuum caps and bleed screw adaptors

#### YA4008 Power Steering Adaptor Kit (Blue-Point®)

- Bleeds trapped air from power steering systems by drawing a vacuum through the reservoir fill neck
- Can also be used to test leaks by placing the system under a vacuum and observing change in gauge reading
- Each adaptor is designed to fit snugly in the neck of the power steering reservoir to form an airtight seal when vacuum is applied
- An external vacuum source—such as the YA4000B or SVT270B hand vacuum pump—is required (sold separately)
- Includes (4) adaptors: YA4008-1 (Ford®), YA4008-2 (GM®), YA4008-3 (universal) and YA4008-4 (right angle)



YA4008



YA4008-1



YA4008-2



YA4008-3



YA4008-4

#### YA4008-1 Adaptor (Blue-Point®)

- Adaptor for Ford® Vehicles

#### YA4008-2 GM® Vehicles Adaptor (Blue-Point®)

- Adaptor for GM® vehicles

#### YA4008-3 Universal Adaptor (Blue-Point®)

- Universal style adaptor to fit a variety of pump reservoirs

#### YA4008-4 Right Angle Adaptor (Blue-Point®)

- Used where there is limited clearance above the filler hole area

### Silencers

#### BDT80 Silencer Band

- For passenger car/light truck drums
- 1-3/4"

#### BDT69 Silencer Band

- Use for ventilated rotors

#### BDT96-2 Silencer Band

- Includes (2)
- For non-vented rotors
- 6.500" (165 mm) diameter

#### BDT94-2 Silencer Band

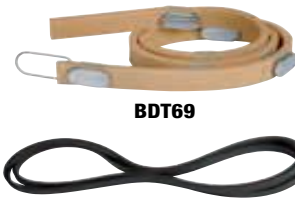
- For non-vented rotors
- 9-1/4" dia

#### BDT980 Spring Silencer Assembly

- For ventilated rotors



BDT80



BDT69

BDT94-2

## BRAKE LATHE ACCESSORIES



BDT063-10



BDT385-06



BDT066-10



BDT428



BTA10



BTK10A

### Carbide Insert Bit Kits

#### BDT063-10 Negative Rake Carbide Bits (10 pk)

- Use for EEBR309A, EEBR312A and Ammco® brake lathes

#### BDT103-06 Positive Rake Carbide Bits (6 pk)

- Use for EEBR310A, EEBR312A and Ammco® brake lathes

#### BDT385-06 6 pc Carbide Bit Kit

- Includes (6 pc) with locking screws
- Optional for Snap-on® EEBR308A brake lathes

#### BDT060-10 Positive Rake Carbide Bits (10 pk)

- Use for Accu-Turn® brake lathes

#### BDT066-10 Positive Rake Carbide Round

#### Tool Bits (10 pk)

- Round tool bits for AMMCO940630 tool holder

#### BDT428 Positive Rake Round Tool Holder Set

- RH and LH used with EEBR308A, EEBR309A and EEBR312A for AMMCO940610 tool bits

#### BDT903-1-10 Replacement Tip 1/32" Radius (10 pk)

- Fits EEBR301A lathes
- 11° clearance with 1/32" corner radii

#### BTA10 Carbide Bit (10 pk)

- For Ammco® models 3000, 4000, 4100, 6900, 7000, and 7700 disc rotor lathes

#### BTD903-1-10 Carbide Bit (10 pk)

- For Ammco® models 3000, 4000, 4100, 6900, 7000, and 7700 disc rotor lathes

#### BTF10 Carbide Bit (10 pk)

- Use for all FMC® lathes

#### BTK10A Carbide Bit (10 pk)

- For all Kwik-Way® lathes with replaceable insert feature as well as older Snap-on® lathe models (YA282, YA278A and YA277 series)



## BRAKE: BLEEDER KITS

### Vacuum-Type Brake Bleeders

#### Brake Bleeder Kits

- Uses compressed air to generate deep vacuum to bleed old fluid and air from hydraulic brake systems
- Fast efficient, one person vacuum bleeding
- Works with all braking systems
- Generates 25 in Hg vacuum with air pressure of 100 PSI
- Specially formulated seals allow unit to be used with a variety of fluids
- On/Off valve and flow regulator
- Unit can be sealed when not in use to prevent spillage
- Quick-release, locking trigger and safety shutoff valve
- Overfill check valve
- Compact design fits under wheel well
- 19-1/2" (500 mm) suction hose
- Universal fitting holds securely on bleed screw
- BB5002A automatically keeps the reservoirs filled to the correct level and fits virtually all master cylinders

#### BB9018 Vacuum Brake Bleeder

- Fast efficient, one person vacuum bleeding
- Works with all braking systems
- Larger 3 pint (1.8 liter) container

#### BB9018KIT 1.8 L Brake Bleeder Kit

- Kit includes BB9018 (1.8 L) and BB5002A (592 ml container)

#### BB9008 Vacuum Brake Bleeder

- Standard 1.7 pint (800 ml) container
- Uses compressed air to generate deep vacuum to bleed old fluid and air from hydraulic brake systems
- Fast efficient, one person vacuum bleeding
- Works with all braking systems



BB9018



BB9008



BB5002A

#### BB9008KIT 800 ml Brake Bleeder Kit

- Kit includes BB9008 Brake Bleeder and BB5002A Refiller

#### BB5002A Auto Refiller Bottle

- Automatically keeps reservoir filled to the correct level
- 20 fluid oz (592 ml) container
- Retaining clip for positive attachment
- Compact design fits under hood
- Positive venting system supplies continuous flow
- Fits virtually all master cylinder reservoirs: can be sealed when not in use to prevent spillage
- On/Off valve

### Master Cylinder Pressure Cap

#### YA8925 Master Cylinder Pressure Cap (Blue-Point®)

- M45 x 3.50 thread adapts to fluid reservoir, and 1/4"-18 and 3.5 mm thread for pressure bleeder
- For Mercedes-Benz®, BMW®, Audi® and Porsche®



YA8925

### Non-Diaphragm Type Brake Bleeder

#### BB100C ‡ Non-Diaphragm Type Brake Bleeder (Blue-Point®)

- 1-gallon capacity
- Self-contained, hand-pressurized pump
- More than 10' of hose with shut-off, pressure gauge and quick coupler
- Uses standard brake bleeder adaptors (optional)
- Use only D.O.T. 3 or D.O.T. 4 automotive brake fluid



BB100C

## BRAKE: SERVICE TOOLS



BCS70A

### General Service Sets

#### BCS70A 7 pc Disc Brake Caliper Driver Set

- Includes (4) 3/8" drive standard hex bit sockets (1/4, 5/16, 3/8" and 8 mm), (1) 3/8" drive TORX® (T40) standard bit socket and (2) 3/8" drive TORX® (T45 and T50) heavy-duty removal bit sockets
- For US vehicles (except Chrysler®)



BTK5

#### BTK5 5 pc General Brake Service Set

- Includes (1) brake spring pliers, (1) brake adjusting tool, (1) brake bleeder wrench, (1) 1/4" drive spring cap socket and (1) 1/4" drive soft grip driver

#### B1461 Brake Adaptor

#### S6110A Bleeder Wrench

#### S6118A 1/4" Drive Spring Cap Socket

#### 131A Brake Spring Pliers

#### SGT4BR 1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver



BTK7A

#### BTK7A 7 pc General Brake Service Set

- Includes (2) brake spring tool, (3) bleeder wrench and (2) brake adjusting tool

#### B1461 Brake Adaptor

#### B3404B Brake Adjuster

#### B1458C Bleeder Wrench

#### B1467A Bleeder Wrench

#### S6112 Bleeder Wrench

#### BT11 Brake Spring Tool

#### B1356E Brake Retainer Spring Tool



- Do not use chrome or industrial finish hand tools with impact drivers
- Follow all safety messages in instructions
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## BRAKE: SERVICE TOOLS



### Brake Spring Tools

#### **BST6\* 3/4" Magnetic Brake Retainer Spring Tool**

- Neodymium magnets inside working end hold brake retainer on tool, allowing for a free hand to hold pin on the back side of backing plate
- O-ring provides advanced gripping action on retainer rather than the older style serrated surface
- Cut-out design on working end helps provide visual aid when trying to achieve pin alignment
- Ergonomic Instinct® handle adds improved grip and comfort
- Made in the USA

#### **BST5\* 5/8" Magnetic Brake Retainer Spring Tool**

- Neodymium magnets inside working end hold brake retainer on tool, allowing for a free hand to hold pin on the back side of backing plate
- O-ring provides advanced gripping action on retainer
- Cutout design makes it easier to see and align pins
- Ergonomic Instinct® handle adds improved grip and comfort
- Made in the USA

#### **BST8\* 7/8" Magnetic Brake Retainer Spring Tool**

- Inside the working end, neodymium magnets hold the brake retainer to the tool, allowing a free hand to hold the pin on the underside of backing plate
- O-ring provides advanced gripping action on the retainer rather than the older style, serrated surface
- Cutout design makes it easier to see and align pins
- Incorporates a longer shaft to accommodate working around the wheel hub
- Ergonomic Instinct® handle adds improved grip and comfort
- Made in the USA

#### **BST12\* Heavy-Duty NPR Brake Spring Tool**

- Used on most drum-style brakes on Isuzu® NPRs to depress the brake spring
- Mechanical advantage allows for ease of use when removing the spring and pin
- Ergonomic Instinct® handle for improved grip and comfort
- Made in the USA

#### **BT27 Single Spring Brake Tool (Blue-Point®)**

- Tool releases tension on both large and small GM® single spring brakes during servicing
- Large spring applications: 2005 and later Chevrolet® Silverado®, 2004 and later Chevrolet® Colorado®
- Small spring applications: 1991 and later GM® H body (Bonneville®, LeSabre and Delta 88), 1992 and later GM® C and U body (Buick® Electra, Oldsmobile® 88, Cadillac® Fleetwood and Deville, Chevy® Lumina APV, Pontiac® Tran Sport and Oldsmobile® Silhouette) and 1995 and later Chevy® Lumina and Chevy® Monte Carlo

#### **BT11 Brake Spring Tool**

- Services Bendix® brake springs and any spring attached to post
- Socket end removes and hook end replaces
- 9-3/4" long

#### **131A Brake Spring Pliers**

- Removes or replaces Bendix®, Lockheed® and other hydraulic and mechanical brake springs
- Steel hook on jaw is replaceable
- Handles provide socket type spring remover and hook end replacer
- 13-1/4" long

#### **BST103R\*\* 3 pc Magnetic Brake Retainer Spring Tool Set**

- Three most popular brake spring retainer tools sold as one encompassing kit
- Magnets conveniently hold brake spring retainer and spring while installing brake shoes
- O-ring provides grip when trying to align retainer with holder pin
- Replacement hook for 131A brake spring pliers

#### **S6118A 1/4" Drive Spring Cap Socket**

- 1/4" drive double-ended socket designed for subcompact brake spring on one end and larger US cars and light trucks on the other
- Industrial finish

#### **BT19A Heavy-Duty Brake Spring Tool (Blue-Point®)**

- Heavy-duty design
- Remove or install import and US brake springs with or without anchor pins
- Maximum wire I.D. is 1/4", overall length is 8-7/8"

#### **B1356E Brake Retainer Spring Tool**

- For use on 3/4" retainer spring caps found on most newer vehicles

#### **BT15 Brake Spring Remover**

- For removing brake springs on full-size cars and pickups with drum-style brakes
- Industrial finish

#### **BT17A Retainer Spring Tool**

- For use on 5/8" dia. retainer springs found on most newer vehicles
- Industrial finish
- 8-15/16" long

#### **BT10 T-Handle Brake Spring Tool (Blue-Point®)**

- Easily relieves tension on single spring brakes for GM® vehicles
- Offers an easy way to remove single brake springs, so that brake shoes, emergency brake cables or brake cylinder can be serviced
- Hook grabs the spring while the tool point acts as a fulcrum to pry the spring free

#### **BT20 Brake Spring Tool for Toyota® Vehicles**

- Special tip is designed to engage the shoe hold down spring cup on Toyota® vehicles
- Manufactured from special alloy steel and heat treated for optimum strength and durability
- For rear parking brake springs on 2000-current Tacoma®, Tundra®, FJ Cruiser®, 4Runner®, Land Cruiser® and Camry®

Colors Available



\* Red O G

\*\* R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

**Dial Test Indicator Sets**

**GA3634 Ball Joint/Disc Brake Test Indicator Set**

- All-purpose indicator set
- Perfect for general use
- Indicator with 0–1" range and .0005" graduations
- Easy-to-read white on black dial face
- GA3640 uses a fixed magnetic base
- GA3645 uses a conforming magnetic base for more mounting options
- GA3634 uses locking pliers and a flexible gooseneck for non-magnetic applications and difficult areas
- Ideal for brake and undercar work



**GA3634**

**Brake Drum/Rotor Gauges**

**DG530 Digital Drum Gauge**

- Measures automotive and heavy-duty brake drums
- Pointed anvils and 4-1/4" long arms allow increased measurement accuracy and coverage
- Selectable depth stops for easier use
- 6–20.65" (150–515 mm) range; .0005" (.01 mm) graduations



**DG530**

**RG430A Digital Rotor Gauge (Blue-Point®)**

- Measures brake rotors and ball joints
- Pointed anvil and 3-1/2" long arms for increased measurement accuracy and coverage
- Selectable depth stops for easy use
- 0–5-1/2" (0–140 mm) range; .0005" (.01 mm) graduations
- Easy to read digital display with inch/metric conversion



**RG430A**

**CAL6EBR 6" Electronic Brake Rotor Caliper**

- Specifically designed for performing inspection work on brake rotors
- The pointed contact enables a user to accurately locate the deepest pits on a brake rotor
- Having the most accurate dimensions prevents over-machining the brake rotor during the reconditioning process
- Tool has range that a micrometer cannot handle (large rotors in the heavy-duty truck market and large agricultural machinery)
- The long jaws enable measurements deep into the rotor to achieve a clear profile of the rotor surface



**CAL6EBR**

**Truck Brake Tools**

**BTGHD9 Heavy-Duty Brake Lining Gauge**

- Accurately confirm brake lining thickness for customers and DOT inspections sheets
- Gauge tool consisting of 9 blades of different sizes ranging between 6–22 mm (0.24–0.87")
- Made of durable stainless steel with both the standard and metric sizes laser-etched on the face



**BTGHD9**

**Emergency Brake**

**BCT1050 Parking Brake Cable Coupler Removal Tool**

- Used on light duty trucks, SUVs and vans with drum or disc brakes
- Cushioned grips for comfort
- Heat treated for durability
- Angled head for accessibility
- Overall length is 14" for adequate leverage
- Use to safely separate the mid-cable coupler from the cable end
- Use on Ford®, GM®, Dodge® light trucks, SUVs and vans from the late 1980s to current



**BCT1050**



- Follow all safety messages in instructions
- Read safety precautions on pages W1 to W4

## BRAKE: SERVICE TOOLS



S9523



B1468



BT4651



HSA716



BSA916

### Truck Brake Adjusting Tools

#### S9523 Brake Adjuster

- Star nut turning tool for Chevrolet® trucks with overload springs
- Different angles at each end of tool for clearance
- Blades are 17/32" wide; tool is 5-1/4" long

#### B1468 Brake Adjuster

- For use on GMC® and Chevrolet® 1-1/2 and 2 ton trucks
- Tips on each end are bent 45° and then twisted 45° to allow access to brake-adjusting mechanism
- 9-1/4" long

#### BT4651† Brake Slack Adjuster, Rockwell Style (For Heavy-Duty Trucks)

- 5/16" double square configuration
- Automatic slack adjuster tool set includes offset, reversible automatic release tool
- Release tool slides under the button of the pull-pawl on the automatic slack adjuster until fully seated while the wrench is used to adjust the brake-to-drum clearance
- Screwdriver handle for performance and comfort

#### HSA716 ‡ Slack Adjuster Wrench

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Haldex® automatic slack adjusters
- Used to turn the manual adjuster hex
- Extra-deep 7/16" hex allows reach to recessed adjusters
- 14-5/8" overall length helps to overcome the anti-reverse mechanism
- Turn over to reverse
- Protective vinyl boot helps to keep contaminants out of the ratchet mechanism for extended tool life

#### BSA916 ‡ Slack Adjuster Wrench

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Bendix® automatic slack adjusters
- Used to turn the manual adjuster hex
- Extra-deep 9/16" hex allows reach to recessed adjusters
- 14-1/2" overall length helps to overcome the anti-reverse mechanism
- Turn over to reverse
- Includes a protective vinyl boot



S9153B



B1462A



B3404B



B1461



S5912



S6004



S6005

### Automotive Brake Adjusting Tools

#### S9153B Brake Adjuster

- Designed to work around obstructions on GM® vehicles
- Blades are 1/2" wide; tool is 7-7/8" long

#### B1462A Brake Adaptor

- For rear brakes of those cars and trucks with trailing arm bolts
- Tang at each end is set at 68°, but in opposite directions for use on left and right hand sides
- 8-1/2" long

#### B3404B Brake Adjuster

- For Bendix® self-adjusting brakes and other brakes with star adjusting nut (except Chevrolet®)
- Blades are 17/32" wide with 1/32" tip thickness
- 8-3/16" long

#### B1461 Brake Adaptor

- One end has a wide tang set at a 29° angle for rear brakes; other end is set at a 45° angle for front brakes
- 8-1/4" long

#### S5912 Brake Adjuster

- For use on VW®, Mazda®, Omni and Horizon
- Each tang tapers to a 1/4" tip width
- One tang is straight; other is offset 45°
- 8-1/2" long

#### S6004 Brake Adjuster

- For use on 1969 and later Toyota® when self-adjusting brakes are being dismantled

#### S6005 Brake Adjuster

- Similar to S6004
- For use on 1969 and later Toyota® when a complete dismantling of the self-adjusting brakes is required
- One end is angled at 60°; other end features a special offset
- Each tang tapers to a 1/4" tip width
- 5-1/4" long

## Disc Brake Tools

### BTCP1 Brake Caliper Press (Blue-Point®)

- Works on both fixed and floating calipers
- Generates more than 1,600 ft-lb of force to retract the toughest caliper pistons
- Single-lever mechanism used to apply and release force for ease of operation and faster service
- Prevents damage to pistons, hubs or calipers
- Ensures parallel piston retraction on dual and quad piston calipers
- Easy left- and right-side use



BTCP1

### BTCP400 ‡ Small Brake Caliper Press

- Ratcheting mechanism allows for fast and easy retraction of single and multiple piston calipers
- Acme threaded rod spreads pads quickly with less ratchet swings
- Offset press plates permit tool to retract to a minimum .328"



BTCP400

### BTCP500 ‡ Brake Caliper Press (Blue-Point®)

- Works on twin and quad piston fixed calipers as well as single and twin piston floating calipers
- Centrally located ratchet evenly spreads force in a parallel manner to prevent misalignment of pistons
- Ratchet technology gives a full 360° swing
- Extended reversing lever allows for easy change from spreading to retracting



BTCP500

### BTCP2SA Brake Caliper Press

- Services vehicles with single and twin floating, twin piston fixed and quad piston fixed calipers
- Operating lever upgraded to heavy-duty forged steel
- Use to press brake caliper pistons for pad replacement
- Ensures parallel piston retraction to prevent damage to piston and seal
- Press plates rotate—180° for efficient operation on both left and right applications
- Heavy-duty design—all heavy load components manufactured from heat treated tool steel for maximum strength
- Large 12 mm shaft diameter is heat treated to prevent distortion or damage under heavy load
- Compression ratio of 15-to-1 provides output of 440 lb of force by just applying 28 lb of force with your hand
- High-strength, lightweight polymer housing offers high impact resistance



BTCP2SA

### BTCP600 Brake Caliper Press

- Newly designed plates allow for use on small single-caliper pistons found on light-duty trucks and medium-duty commercial vehicles
- Plates are 2-1/2 x 5-1/2", designed with unique geometry that allows the tool to be used on small and mid-sized vehicles all the way up to medium-duty commercial trucks
- Fine-tooth wheel allows increased 6.6° of swing arc allowing for increased accessibility
- Threaded parts are 3/4" on the male threads and 1-1/8" on the female side adding significant strength
- Works on single-, dual-, and quad-piston calipers; has a total spread of 1-3-1/4"
- Has a minimum spread of 1" and maximum spread of 3-1/4"



BTCP600

### BTCS1 1/2" Drive 17 mm Subaru® Caliper Bolt Impact Swivel Socket

- Impact-rated swivel socket
- Designed to clear suspension components on various Subaru® front caliper bracket bolts, allowing for the use of a 1/2" drive impact gun



BTCS1



- Do not use "cheater bars" on handles
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## BRAKE: SERVICE TOOLS



FTSM4E



YA8610B



YA2440



GA395A



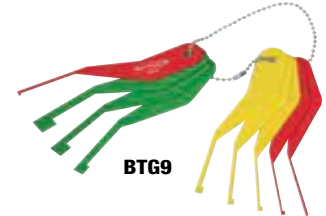
YA9329A



BT350A



BTG8



BTG9

### Disc Brake Tools

#### FTSM4E 3/8" Drive Metric 4 mm Standard Triple Square Bit Socket

- Use on VW®/Audi® door handle screws 1998–later, brake drum fasteners on VW® Touareg® plus many other 4 mm and 5 mm triple square applications
- 48.5 mm overall length

#### YA8610B Universal Brake Caliper Tool Set (Blue-Point®)

- Assists in replacement of brake pads on most four-wheel disc brake cars
- Tool and adaptors position brake piston back into caliper to allow clearance for newer, thicker brake pads
- Designed for most Audi®, Chrysler®, Ford®, GM®, Honda®, Jaguar®, Mazda®, MINI Cooper®, Mitsubishi®, Nissan®, Saturn®, Subaru®, Toyota®, VW® and Volvo® vehicles
- Set includes (1) tool and (6) adaptors in a storage case

#### YA6730 Brake Caliper Tool Set (Blue-Point®)

- Combines the main body from the YA8610B set and the YA8610B-7 adaptor

#### YA8610B-7 Brake Caliper Tool Adaptor (Blue-Point®)

- Use on Mazda® 3 (2004 and newer), Mazda® 5 (2006 and newer), Mini Cooper® (all 2002 and newer), Volvo® S40 (2004-1/2 and newer), Volvo® V50 (2006 and newer), Volvo® C30 (2007 and newer), Pontiac® Solstice® (2006 and newer), Saturn® Sky (2007 and newer) and Jaguar® X type (2006 and newer)

#### YA2440 Pad Spreader (Blue-Point®)

- For use on most US and import cars and light duty trucks with single piston disc brakes without parking brakes
- Compresses the disc brake piston for easy pad installation

#### GA395A † Pad Spreader (Blue-Point®)

- Repair kit for FXKL Series Extensions

#### YA9329A Piston Rotation Tool (Blue-Point®)

- Use to rotate piston back into caliper cylinder when replacing pads
- Also rotates parking brake cylinder back into the caliper cylinder on vehicles with four-wheel disc brakes
- For 1975 and later Ford®, Mercury® and some import vehicles

#### BT350A Brake Piston Press (Blue-Point®)

- Presses single or dual pistons most cars, light and heavy-duty trucks
- Quick and easy to use-no nuts or bolts involved in pressing operations

#### BTG8 8 pc Brake Pad/Shoe Gauge Set (Blue-Point®)

- Includes eight different testing blades of various colors and thickness: red 2 mm (0.0787"), red 3 mm (0.1181"), yellow 4 mm (0.1575"), yellow 5 mm (0.1969"), yellow 6 mm (0.2362"), green 8 mm (0.3150"), green 10 mm (0.3937") and green 12 mm (0.4724")
- Color-coded gauges: red indicates service required, yellow indicates caution and green indicates OK
- Constructed from 20-gauge sheet metal with durable powder-coat finish

#### BTG9 Combination Brake Lining Thickness Gauge Set (Blue-Point®)

- Offset tips are designed to check both straight on or at a 90° angle to the rotor
- Gauges can be used without removing the wheel or caliper assembly on many applications
- Brake lining gauges identify thickness levels for brake lining inspection
- Made from durable, flexible acetal
- Gauges are color coded to match SAE or metric recommendations for brake pad replacement

| Stock No. | Size, mm | Finish | Description     | Type          | A    | B    | C    | D       |
|-----------|----------|--------|-----------------|---------------|------|------|------|---------|
| FTSM4E    | 4        | Chrome | Standard Length | Triple Square | 17.2 | 21.6 | 48.5 | FTSM4E2 |



**Truck Brake Tools**

**B1359B Brake Retainer Spring Tool**

- For Chrysler® and Ford® 3/4 ton trucks equipped with Bendix® brakes
- U-shaped end is offset 30° 45° for easy removal of brake shoe to backing plate spring

**BT518 Brake Shoe Tool**

- For large trucks and trailers with air brakes with S cam design
- Provides leverage to back out brake shoe and remove roller cam
- Industrial finish

**BT12 Brake Spring Tool**

- Services brake shoe retracting springs on trucks using Bendix®, Wagner® and Kelsey-Hayes® systems
- Unique shape permits access and leverage

**BT1360 Brake Spring Tool**

- Remove brake shoe retaining springs from heavy-duty Ford®, GM®, Dodge® and International® trucks
- Large, comfortable handle
- Constructed for strength and durability

**TAP1 Truck Anchor Pin and Bushing Press**

- Designed to remove brake anchor pins and bushings on 16-1/2" Q type S-cam tractor and trailer brake systems from Dana-Spicer®, ArvinMeritor® (Rockwell®), Eaton®, Timkin® and Fruehauf® without removing wheel hub
- Pressure pad retaining rings hold pads firmly in place
- Two-hand operation
- Interchangeable pressure pads allow removal of bushing alone or simultaneous pin/bushing removal
- Zerk grease fitting lubricates and flushes dirt from pressure screw for long life
- Designed for use with 3/4" impact guns
- Includes storage case

**TAP1-5A Pressure Pad Adaptor**

- Designed to remove anchor pin and bushing together on trailers
- For use with the TAP1 Anchor Pin and Bushing Press

**Throttle Depressor/Brake Resetting Gauge**

**B240B Brake and Accelerator Pedal Jack (Blue-Point®)**

- Holds throttle at a constant RPM
- Easily adjusts to desired length
- Adjustment screw fine-tunes desired RPM
- Rubber tip keeps the tool firmly positioned
- Overall length of 40" (102 cm)
- Can also be used as a pedal depressor

**YA2780 ± Brake Resetting Gauge (Blue-Point®)**

- Automatically sets brake shoe size when measuring against drum walls
- Positive locking section ensures an accurate reading every time
- Improved range of 6-1/2–13-1/4"



**Emergency Brake**

**SIML160 1/2" Drive 6-Point SAE 1/2" Flank Drive® Extra-Deep Impact Socket**

- Used to remove or replace fuel tank retaining strap nuts
- Other applications include emergency brake adjustment nuts and stabilizer retainers
- 1/2" square drive; 1/2"; 6-point wrench opening
- 5" long

**SIML180 1/2" Drive 6-Point SAE 9/16" Flank Drive® Extra-Deep Impact Socket**

- Same design as SIML160, except hex size is 9/16"

**BR1 C-Ring Pliers (Blue-Point®)**

- Opens the C-ring on the emergency brake actuation lever when changing rear brake shoes on many US cars, trucks and imports

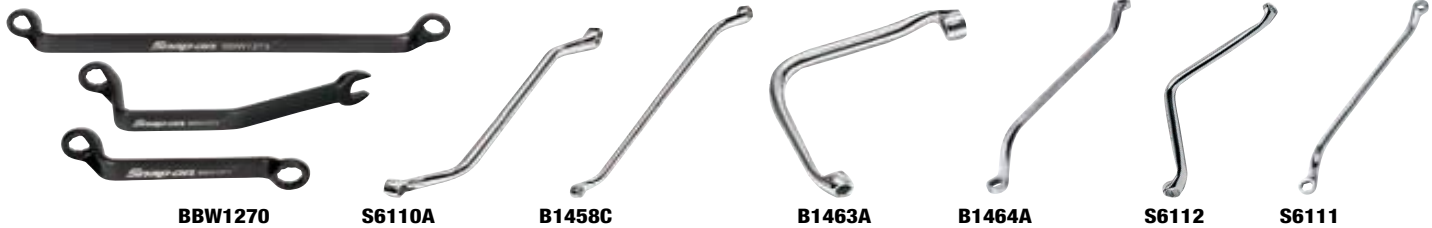
**BR2 C-Ring Pliers (Blue-Point®)**

- Holds the C-ring without slipping during installation



• Do not use chrome or industrial finish hand tools with impact drivers  
 • †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
 • Read safety precautions on pages W1 to W4

## BRAKE: SERVICE TOOLS



### Bleeder Wrenches

#### BBW1270 3 pc Brake Bleeder Wrench Set

- Special design features accommodate caliper-mounted electromechanical parking brakes
- Designed to work without removing the wheels
- Easily accesses difficult-to-reach 11 mm bleeder screws
- The varied geometry of the BBW1271, BBW1272 and BBW1273 Brake Bleeder Wrenches, will provide access to most 11 mm brake bleeder screws on all vehicle makes and models

#### BBW1271 Brake Bleeder Wrench

- Special design features accommodate caliper-mounted electromechanical parking brakes
- Designed to work without removing the wheels
- Easily accesses difficult-to-reach 11 mm bleeder screws
- For use on BMW® vehicles

#### BBW1272 Brake Bleeder Wrench

- Special design features accommodate caliper-mounted electromechanical parking brakes
- Designed to work without removing the wheels
- Easily accesses difficult-to-reach 11 mm bleeder screws
- For use on Volkswagen® vehicles

#### BBW1273 Brake Bleeder Wrench

- Special design features accommodate caliper-mounted electromechanical parking brakes
- Designed to work without removing the wheels
- Easily accesses difficult-to-reach 11 mm bleeder screws
- For use on Audi® vehicles

#### S6110A Bleeder Wrench

- Use for GM®, Nissan® and Honda® vehicles
- 8 mm, 6-point box end; 10 mm on the other
- Ends are offset for clearance
- 7-9/16" (192 mm) long

#### B1460B Bleeder Wrench

- Similar to S6110A
- 3/8" box end for brake bleeding work and a 7/16" box end for brake shoe eccentric bolt adjustment
- Offset clears drag link arm and recessed backing plate on front wheel
- 9-1/2" long

#### B1467A Bleeder Wrench

- For GM®, Ford® and Chrysler® vehicles
- Similar to S6110A
- 5/16" and 3/8" single hex box ends are offset for access to bleeder fittings
- 8-1/2" long

#### S6143 Bleeder Wrench

- For most imports
- Similar to S6110A
- 7 mm and 9 mm, 6-point box ends are offset for clearance
- 252 mm long

#### B1458C Bleeder Wrench

- Includes 1/4" and 3/8" single hex box ends
- 9" long

#### B1463A Bleeder Wrench

- 1/4"-3/8", 6-point box ends are tapered for clearance
- 3-3/4" long arms (for smaller bleeder fittings on most compact cars)

#### B1464A 9-11 mm 6-Point Flank Drive® Brake Bleeder Wrench

- Ends are offset for extra clearance and length (9.28"/235 mm) allows for extended reach
- Manufactured from special alloy steel, precision-forged, and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

#### S8184 Bleeder Wrench

- For fittings on most GM® vehicles
- Similar to B1463A
- 3/8" and 5/16", 6-point box openings
- 4" long arms

#### B1470 Bleeder Wrench

- Similar to B1463A
- For late model GM® and most import vehicles
- 8 mm, 6-point box end; 10 mm on the other
- Wrench has a 90° bend for access
- Arms are approximately 100 mm long

#### S6112 Bleeder Wrench

- For some GM® and Toyota® vehicles, plus select imports
- Similar to B1463A
- 8 mm, 6-point box on one end; 10 mm on the other
- Wrench has 90° bend for access
- Arms are 130 mm long

#### S6111 Bleeder Wrench

- Covers 90% of late-model US applications including late-model Chrysler®, Dodge®, Ford®, GM®, Audi®, Mercedes® and VW® vehicles
- 10 mm and 11 mm 6-point Flank Drive® wrenching configuration
- Ends are offset for extra clearance
- 235 mm long



PMP406A

### Pipe Plug, mm, Chrome

| Size, mm | Stock No. | Dimension A, Dia., mm | Dimension B, Length, mm |
|----------|-----------|-----------------------|-------------------------|
| 6        | PMP406A   | 17.2                  | 25.8                    |

#### PMP406A 3/8" Drive Metric 6 mm Internal Pipe Plug Socket

- For rear brake adjustments on 1973-1986 Subaru®
- 3/8" drive, 6 mm internal square socket



**Power Steering and Alternator Pullers/Single Pullers**

**CJ117C Power Steering and Alternator Pulley Puller**

- Includes short adaptor to remove small flange-type pulley; long adaptor is used for GM® 200-platform vehicles
- Can also remove Chrysler® alternator pulleys that have double grooves
- Replace pulleys with CJ113B Installer
- Long adaptor included to handle pulleys on GM® minivans
- Nickel-chrome finish, industrial-finish screw
- Designed for most US vehicles (replace pulley with CJ122 sets)

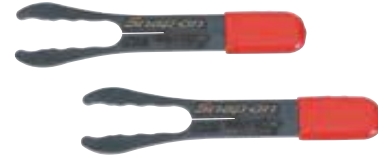


**CJ117C**

**Disc Brake Tools**

**BRHC2PK Kit, Brake Rotor Holding Clips, 2 pc**

- Allows for easy reinstallation of brake caliper, caliper bracket and pads
- Stabilizes the rotor to the hub
- Ergonomic grip for ease of use
- Clips made of hardened steel
- Includes (2) clips



**BRHC2PK**

**BTPUCK2 Two Pin Brake Piston Tool**

- Universal and adjustable twin pin brake caliper piston resetting puck eliminates need for 15 or more different sized pucks to service brakes on a vast majority of vehicles on the road today
- Fully adjustable rotating body dials in the twin pins distance (center to center) for easy insertion into brake caliper piston face slots
- Slim-profile allows for easy access and quick service of narrow and/or micro-type calipers
- Services nearly every wind-back brake caliper piston with 2 or 4 faced slots
- Easily works with a 3/8 ratchet or any Wind-back type tool
- Exclusive Rotating lock secures the twin pin spread/stroke, maintaining perfect fit every time



**BTPUCK2**

**BTPUCK3 Three Pin Brake Piston Tool**

- Pins fully adjust and mate up to bores on brake piston surface
- For use on vehicles that have a disc brake caliper equipped with a singular piston and the emergency/parking brake system is incorporated within this brake caliper housing
- Tool resets the brake piston on calipers equipped with an Electric Parking Brake (EPB); not applicable to multi-piston calipers
- 3 Pin Puck for Audi® equipped with EPB



**BTPUCK3**

**Truck Brake Tools**

**CPP16 Extended Heavy-Duty Clutch Pin Punch**

- Overall length of 16" to access and perform routine maintenance on recessed and hard-to-reach roll pins
- Solid through pin prevents unnecessary stress or impact on handle
- Striking end of pin extends 1/4" to protect handle from being damaged when in use
- Snap-on® Instinct® soft handle for improved grip, comfort and turning power
- Constructed of hardened steel; made in the USA



**CPP16**

**HONES**

**Three Arm Hones and Stone Sets**

**CF63A ‡ Three Arm Hone (Blue-Point®)**

- For 3/4–2-1/2" dia. cylinders
- Adjustable thumb nut to control tension

| Stock No. | Grit    | Length, inches |
|-----------|---------|----------------|
| CF63A-100 | 100 (3) | 1-1/8          |
| CF63A-240 | 240 (3) | 1-1/8          |
| CF63A-400 | 400 (3) | 1-1/8          |



**CF63A**



- Do not use chrome or industrial finish hand tools with impact drivers
- Do not use "cheater bars" on handles
- Operate hone only while it is in cylinder
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

**BODY: UNIBODY AND FRAME-STRAIGHTENING EQUIPMENT**

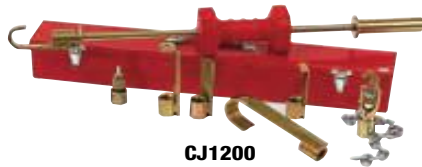
CJ107



CJ114



YA2002



CJ1200

**Pullers (Body)****CJ107 Body Dent Puller**

- Slide hammer action pulls out dent for filling
- L-hook included for larger jobs
- 4 lb slide hammer

**CJ114 Puller, Body Dent, 3 lb Slide Hammer (Blue-Point®)**

- Mainly for rocker, quarter, back and door panels
- Includes screw for puncturing sheet metal with a bodyman hook and seal hook for larger jobs
- 3 lb slide hammer

**YA2002 Quarter Panel Puller (Blue-Point®)**

- Removes dents from rear quarters and wheel wells
- Two 12" tubes (with different dimensions) fit most wheel well openings
- Use with chain attached to frame machine or portable power unit

**CJ1200 Puller Set, Slide Hammer (Blue-Point®)**

- Contains a 12 lb, contour-formed slide hammer and a variety of attachments for auto body repair work

**Alignment Bar****BM175 Alignment Bar (Blue-Point®)**

- Use to align bumpers, window posts, wheel wells, panels, hoods, decks and brackets
- 6', 1/4" chain has hooks welded to each end for easy attachment to body components
- 4-1/2" long, 1-1/2" dia. tubing

**BODY: BODY REPAIR**

YA1544A



YA1545

**Body Repair Kits****YA1544A Body Repair Kit (Blue-Point®)**

- 4-ton capacity model provides the pushing and spreading power needed to make fast and easy work of everyday repairs
- Auto pump overload system protects against damage to rams and equipment
- 1/2-ton capacity hydraulic spreader has 2" jaw and spreads from 5/8"-3-3/4"
- Flex head includes a permanently molded rubber pad
- Heavy walled extension tubes stand up to the toughest loads
- Long handle reduces required pumping effort
- 18-pc 4-ton capacity kit includes a hydraulic unit, (5) Snap-Set extensions, a spreader, a full selection of attachments for most push applications and a durable storage case

**YA1545 10 Ton Body Repair Kit (Blue-Point®)**

- 10-ton capacity kit includes (1) hydraulic unit, (4) extensions (4, 10, 18 and 27"), a spreader and a full selection of attachments in a custom-fitted, rugged and wheeled storage case
- Pumps are rated from 8,000-10,000 PSI
- Portable for use on the road or in the shop



BM101

**Push-Pull Jack****BM101 Push-Pull Jack (Blue-Point®)**

- Capable of 3,000 lb push-pull power
- Aligns, straightens and removes dents
- Multipurpose hook on jack head and a hook on the 55" long friction rod
- Friction rod flexes to maintain constant pressure without bending, while the grooved end prevents slipping
- Three-position handle

**Hickory Handles**

| Stock No. | Length, inches | Hammers Used On  |
|-----------|----------------|--|
| BF603-2R  | 13             | BF603B, BF604B, BF608B, BF617B, BF610B, BF630B, BF631B, BF633, BF634 |
| BF611-2R  | 12             | BF611B, BF615 and BF618B   |
| BF614-2R  | 17             | BF614B   |



**Hammers**

**BF603B Long Spot Pick Hammer**

- For bumping when filing or where metal is covered with soundproofing material

**BF604B Wide Nose Cross Peen Hammer**

- For finishing and caulking

**BF608B Short Curve Cross Peen Hammer**

- Use under fenders with rolled edges, use finishing face for dinging

**BF610B Shrinking Hammer**

- Same design as BF617B except the serrated shrinking face is square
- Finishing head on other end

**BF611B Picking and Dinging Hammer**

- Smooths small dents and general dinging

**BF612 Compact Body Hammer**

- 8 oz head equivalent to BF611B to provide familiar swing weight
- Compact, 1-3/4" head height provides user ability to take a full swing in hard to reach areas

**BF614B Long Picking Hammer**

- For turret and fender work

**BF617B Shrinking Hammer**

- Extra large faces for large area work
- Serrated for shrinking and smooth for finishing

**BF618B Wide Nose Peen Hammer**

- Bumps odd fender contours

**BF630B Spot Pick Hammer**

- Same design as BF603B except with blunted pick end

**BF631B Cross Peen Shrinking Hammer**

- Combines pick end of BF604B and serrated face of BF617B

**BF632B Door Panel Body Hammer**

- For door and body panel bumping
- Smaller diameter head is offset 45°
- Fiberglass handle

**BF635 Door Skin Hammer**

- For door skin replacement
- Narrow, rectangular faces work in tight flange area
- Fiberglass handle offers excellent balance and high-strength
- Medium crown head with 25° offset and 3-1/2" radius for working on narrow flanges against the door structure
- High crown straight head with 1-5/16" radius for finishing thin sections without poking holes

**BF636 Vertical Chisel Shrinking Body Hammer**

- Chisel has vertical orientation for better ergonomics for vertical contour work
- Fiberglass handle offers excellent balance and strength
- Cross-hatch face

| Stock No. | Handle Length, inches | Round Face Diameter, inches | Peen End Size, inches | Head Length, inches | Head Weight, oz |
|-----------|-----------------------|-----------------------------|-----------------------|---------------------|-----------------|
| BF603B    | 13                    | 1-19/32                     | 1/16 x 7/16           | 6-1/8               | 12-1/2          |
| BF604B    | 13                    | 1-5/8                       | 5/8                   | 5-1/2               | 11-1/2          |
| BF608B    | 13                    | 1-5/8                       | 5/8 x 1/16            | —                   | 11              |
| BF610B    | 13                    | 1-7/8                       | —                     | 4-1/4               | 16              |
| BF611B    | 12                    | 1-15/32                     | —                     | —                   | 8               |
| BF612     | 12                    | 1-15/32                     | —                     | —                   | 8               |
| BF614B    | 17                    | 1-5/8                       | —                     | 8-5/8               | 16              |
| BF617B    | 13                    | 1-7/8                       | —                     | —                   | 16              |
| BF618B    | 12                    | 1-9/16                      | 3/16 x 7/8            | 5                   | 12-1/2          |
| BF630B    | 13                    | 1-19/32                     | 1/4 x 7/16            | 6                   | 12-1/2          |
| BF631B    | 13                    | 1-7/8                       | 5/8                   | 5-1/2               | 11-1/2          |
| BF632B    | 13                    | 1-1/4–1-5/8                 | —                     | 6-5/8               | 16              |
| BF635     | 12                    | 1-7/16–1-5/8                | 5/8 x 1-1/2, 5/8 x 2  | 7                   | 16              |
| BF636     | —                     | 1-9/16                      | 1/8 x 5/8             | 5-13/32             | 13              |



- Do not use chipped, mushroomed, or cracked hammers
- Strike squarely, avoid glancing blows
- Do not strike hard objects, use only for striking sheet metal
- Read safety precautions on pages W1 to W4

## BODY: BODY TOOL SETS



2005BFA



2007BFB



BF715B



BF716B



BF707



BF710B



BF711B



BF712B



BF740

### Body Tool Sets

#### 2005BFA Body Tool Set

- Contains CJ114 body dent puller, BF608B, BF611B body hammers, BF716B dinging spoon and BF711B heel dolly (5 pc) in a plastic storage tray

#### 2007BFB 7 pc Body Hammer Set

- Seven of the most common tools necessary for professional body work: BF716B spoon, BF608B, BF611B and BF617B body hammers and BF710B, BF711B and BF712B dollies in a foam storage tray

### Spoons

#### BF715B 14" Spoon Dolly

- For caulking and forming deep pockets in doors and panels
- Head size is 2-1/2 x 1 x 3"; 14" total length

#### BF716B 10" Light Dinging Spoon

- Smooths and levels ridges
- Not for prying
- Head size is 4-1/4 x 2"; 10" total length

### Steel Dollies

B173.5 -1991 applies to all dollies.

#### BF707 Heel Dolly (Blue-Point®)

- For use in sharp corners and wide radii
- Rubber coating provides cushioning effect
- Measures 3 x 2-1/2 x 1-1/2"

#### BF710B 1.65 lb Steel Toe Dolly

- For dinging flat surfaces
- Measures 4-3/4 x 2-1/4 x 11/16", weighs 1.65 lb

#### BF711B 2-1/4 lb Steel Heel Dolly

- For use in sharp corners and wide radii
- Measures 3 x 2-1/4 x 1-3/8"; 2.25 lb

#### BF712B 2-1/4 lb Steel General Purpose Dolly

- For deep, skirted fenders and shrinking when using heat
- Measures 3 x 2-1/4 x 1-3/8"
- 2-1/4 lb

#### BF740 Shot Dolly (Blue-Point®)

- Heavy-duty leather pouch is filled with 2-1/2 lb of shot
- Essential for supporting irregular shapes and contours on doors, fenders, and other body panels
- Thin profile to get in tight areas
- Will not scratch surface; 3-3/4 W x 5-3/4" L

## SNIPS



CD10A



CD12A



CD16A

### Tin Snips

Cut straight, circular or irregular patterns; right or left cuts.

#### CD7A Duckbill Tin Snips (Blue-Point®)

- 1-1/2" blades
- 7" long

#### CD10A Duckbill Tin Snips (Blue-Point®)

- 2-1/4" blades
- 10" long

#### CD12A Combination Tin Snips (Blue-Point®)

- 3" blades
- 12" long

#### CD16A Bulldog Tin Snips (Blue-Point®)

- 2-1/2" blades
- 16" long



AVSOSL9



AVSNP01010



AVSNP01160



AVSNP2000



AVSNP03000

### Aviation Snips

- Offset blades allow cut material to flow beneath the user's hand without curling

#### AVSOSL9 Snips

- Red handle
- Left-hand cut

#### AVSOSR9 Snips

- Right-hand cut

#### AVSNP01010 Aviation Tin Snips, Left Cut (Blue-Point®)

#### AVSNP01020 Aviation Tin Snips, Right Cut (Blue-Point®)

- Maneuverable for angle cutting or pattern configurations
- Cut up to 18-gauge mild steel

#### AVSNP01030 Aviation Tin Snips, Straight Cut (Blue-Point®)

#### AVSNP01150 Offset Aviation Tin Snips, Left Cut (Blue-Point®)

#### AVSNP01160 Offset Aviation Tin Snips, Right Cut (Blue-Point®)

#### AVSNP02000 2 pc Offset Aviation Snips Set (Blue-Point®)

- Black oxide finish
- 1-1/8" cutting edge
- 9-1/2" long

#### AVSNP03000 3 pc Aviation Snips Set (Blue-Point®)

#### AVSNP2000 2 pc Offset Aviation Snips Set

#### AVSNP3000 3 pc Aviation Snips Set

## Shop Shears

### HDSCISSORS Heavy-Duty Shop Scissors

- For leather, cloth, plastic, rubber, cardboard, gasket material, rope and many other materials
- Ergonomic handles can be used right or left handed
- 11-3/8" length

### SNP2A Angled Multipurpose Heavy-Duty Shears (Blue-Point®)

- For leather, cloth, plastic, rubber, cardboard, gasket material, rope and other materials
- Ergonomic handles can be used right or left handed; soft molded grip for comfort and control
- Blade is notched for hard wire and twine
- Locking switch ensures safety during storage
- Control switch allows blades to be held in a tighter position for easier handling
- Angled shears allow easier cutting through flat materials

## Vinyl Cutters

### YA444B Vinyl Cutter (Blue-Point®)

- Cleanly cuts plastic, rubber, vinyl, upholstery, leather, hoses and rope
- Ergonomic grip handle with safety lock
- Blade storage in handle
- Includes (3) stainless steel replacement blades (YA444B1)

### YA444B1 Replacement Blades (Blue-Point®)

- Includes (3) replacement blades and anvil for YA444B vinyl cutter



HDSCISSORS



SNP2A



YA444B

## FILES

## Nib Files

### BF193 Nip File (Blue-Point®)

- Removes unwanted paint runs, drips and other surface imperfections
- Gently shaves run without digging into surface

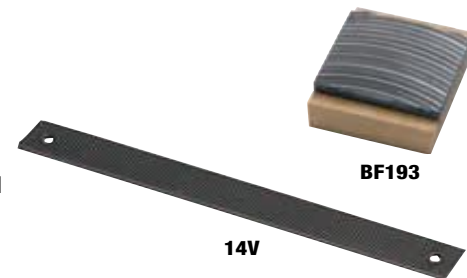
## Flexible Curved Tooth Files

### 14V 14" Curved Tooth File, 8 TPI

- 14", eight teeth per inch
- Rough cut
- Use with BF775C Handle

### 14V12 14" Curved Tooth File, 12 TPI

- 14", 12 teeth per inch
- Fine cut
- Use with BF775C Handle



14V

BF193

## File Handles

### BF775C-A Flexible File Holder (Blue-Point®)

- Light and rigid, with a large aluminum handle, adjustable turnbuckle and permanently attached strap



BF775C-A

## File Handles

- Wooden, twist on handles with case hardened threaded steel inserts

### GA616 Wooden Twist-On File Handle (Blue-Point®)

- For use on 10T, 10MA, 10HR and 12R files

### GA617 Wooden Twist-On File Handle (Blue-Point®)

- For use on 12MA and 12HR files

### GA618 Wooden Twist-On File Handle (Blue-Point®)

- For use on 8CT curved tooth file and 14MA and 16MA files



GA616

## RIVETING AND NUT SETTING

## Nut Setting/Thread Setting Kits

### HP650 Thread Setter Kit (Blue-Point®)

- Includes a rugged thread setter tool and an assortment of SAE Klik® Poly-Nuts, including (12 ea) of 8-32, 10-24, 10-32; (8) 1/4"-20 and (6) 5/16"-18 threads
- Includes required nosepieces and mandrels for setting the above sizes
- Packaged in a storage case

### HP650M Metric Thread Setter Kit (Blue-Point®)

- Metric version of the HP650 with metric Klik® Poly-Nuts, including (25 ea) 4 mm and 5 mm, (15) 6 mm and (10) 8 mm threads
- Includes a thread setter tool, required nosepieces and mandrels packaged in a storage case



HP650M



- Keep away from children
- Read safety precautions on pages W1 to W4

## BODY: RIVETING AND NUT SETTING



HP300

### Riveting Kits

#### HP300 Large Blind Rivet Kit (Blue-Point®)

- Extra-long handled riveter
- Includes (3) nosepieces
- 21" long riveter
- Also includes a bag of 50 Klik-Split® rivets
- Reorder quantities of Klik-Split® and Klik-Fast® rivets are packaged 50 per bag

#### HPKL2 Plastic Rivet Kit (Blue-Point®)

- For plastic rivets that hold fascia strips, inner fenders and other plastic parts on GM®, Ford®, Chrysler® and VW® vehicles
- Includes rivet setter and (4) styles of plastic rivets: (2) 5 mm types and (2) 6.3 mm types



HPKL2

#### HR-26PKC Industrial Hand Rivet Tool Kit (Blue-Point®)

- Upper handle is forged Cr-Mo steel alloy
- Anti-wear design with high-strength alloy body and steel insert
- Special shock absorber on alloy body
- Auto-ejection design for quickly replacing the inside worn parts, such as jaws, by removing retaining screw
- Extra long handles 10-1/4" (260 mm) for better leverage to save hand force
- Sets 3/32", 1/8", 5/32" and 3/16" rivets
- Four interchangeable nosepieces for setting multiple rivet sizes

#### HR26-03 3/32" Nosepiece

- 3/32" Nosepiece

#### HR26-04 1/8" Nosepiece

- 1/8" Nosepiece

#### HR26-05 5/32" Nosepiece

- 5/32" Nosepiece

#### HR26-06 3/16" Nosepiece

- 3/16" Nosepiece



HPS202



HP301C



HR-26

### Riveting Tools

#### HPS202 Rivet Tool (Blue-Point®)

- Head swivels 360° to rivet at any angle
- Fasten metal, leather, canvas and vinyl
- Sets 3/32, 1/8, 5/32 and 3/16" rivets
- Four interchangeable nosepieces store in handle when not in use

#### HP301C Pneumatic/Hydraulic Rivet Tool

- Sets structural rivets, Klik-Fast® rivets from 5/32-1/4" dia. in all alloys plus Klik-Fast®/Monobolt® rivets from 3/16-1/4"
- Requires only 85-95 PSI 1/2" NPT threads
- Delivers 3,300 lb of work force at 5/8" stroke
- Includes 5/32, 3/16 and 1/4" nosepieces plus mandrel collection bottle
- Overall weight 6.6 lb

#### HP302C Pneumatic/Hydraulic Rivet Tool

- Smaller, lighter version of HP301C
- Sets blind rivets from 1/8-3/16" dia. in all alloys, plus 3/16" Klik-Split® and Monobolt® rivets
- Includes 1/8", 5/32", 3/16" nosepieces and mandrel collection bottle

#### HP30N Optional Rivet Nosepiece (Blue-Point®)

- Use with HP2 rivet tool to replace OEM welded studs on trim molding
- For rivets with 1/8" body diameter
- 7/32" head diameter

#### HP310 Pneumatic/Hydraulic Rivet Tool

- Sets 3/32 to 1/4" dia. rivets in all materials
- Can also set T-Rivet®/Klik-Split®, Klik-Lock® and all other structural rivets
- Includes 3/32, 1/8, 3/16, 5/32 and 1/4" nosepieces plus mandrel collection bottle

#### HP320 Pneumatic/Hydraulic Rivet Tool

- Sets 1/8 to 3/16" dia. rivets in all materials
- Includes: 1/8, 5/32 and 3/16" nosepieces plus mandrel collection bottle

#### HR-26 Industrial Hand Rivet Tool

- Forged Cr-Mo steel alloy upper handle
- Handle strength alloy body with steel insert design and anti-wearing design
- Special shock absorber on alloy body
- Auto-ejection design for quickly replacing the inside worn parts, such as jaws, by removing retaining screw
- Extra long handles 10-1/4" (260 mm) for better leverage to save hand force
- Sets 3/32, 1/8, 5/32, and 3/16 rivets
- Four interchangeable nosepieces for setting multiple rivet sizes

#### HR26-03 3/32" Nosepiece

- 3/32" Nosepiece

#### HR26-04 1/8" Nosepiece

- 1/8" Nosepiece

#### HR26-05 5/32" Nosepiece

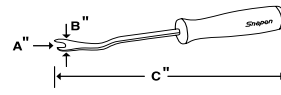
- 5/32" Nosepiece

#### HR26-06 3/16" Nosepiece

- 3/16" Nosepiece

**Soft Grip Trim Pad Tools**

- Remove fasteners that secure door panels and trim pieces without damage to panel or trim
- Soft grip handles with contour thumb stop
- Distinct pivot point is designed for appropriate leverage and to discourage twisting that may damage panel or trim piece



Set Contains:  
 ASG103BR  
 ASG103BO  
 ASG103BG

| Stock No. | Color  | A<br>Opening Size,<br>inches | B<br>Blade Width,<br>inches | C<br>Overall Length,<br>inches |   |   |   |
|-----------|--------|------------------------------|-----------------------------|--------------------------------|---|---|---|
| ASG185BR  | Red    | 7/32                         | 9/16                        | 10                             | • |   |   |
| ASG185BO  | Orange | 7/32                         | 9/16                        | 10                             |   | • |   |
| ASG185BG  | Green  | 7/32                         | 9/16                        | 10                             |   |   | • |
| ASG186BR  | Red    | 3/8                          | 13/16                       | 10                             | • |   |   |
| ASG186BO  | Orange | 3/8                          | 13/16                       | 10                             |   | • |   |
| ASG186BG  | Green  | 3/8                          | 13/16                       | 10                             |   |   | • |
| ASG187BR  | Red    | 3/8                          | 13/16                       | 20                             | • |   |   |
| ASG187BO  | Orange | 3/8                          | 13/16                       | 20                             |   | • |   |
| ASG187BG  | Green  | 3/8                          | 13/16                       | 20                             |   |   | • |
| ASG188BR  | Red    | 7/16                         | 13/16                       | 10                             |   |   |   |
| ASG189BR  | Red    | 7/16                         | 13/16                       | 20                             |   |   |   |
| ASG190BR  | Red    | 3/8                          | 13/16                       | 20                             |   |   |   |

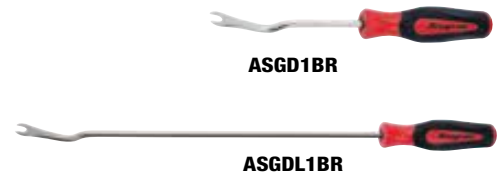


**Soft Grip Dished Trim Pad Tools**

- Smooth dish profile and wide gap to fit vehicles utilizing conical x-mass style retainers for quick removal without damage
- Dished blade for better door panel clip and retainer contact
- Soft grip handle for comfort and control
- Chrome finish helps prevent corrosion and facilitates cleanup
- Applications: Ford®, GM®, Toyota® vehicles and more

Set Contains:  
 ASGD102BR

| Stock No. | A<br>Opening Size, inches | B<br>Blade Width, inches | C<br>Overall Length, inches |   |
|-----------|---------------------------|--------------------------|-----------------------------|---|
| ASGD1BR   | 7/16                      | 13/16                    | 10                          | • |
| ASGDL1BR  | 7/16                      | 13/16                    | 20                          | • |



**Soft Grip Non-Marring Trim Pad Tools**

- Separate tool for both the small and standard fasteners
- 90° bend provides increased leverage
- Vinyl dip on the 90° portion of the tool helps reduce damage to the vehicle
- Nickel-chrome finish blade
- Instinct® handle provides maximum turning power and greater comfort

Set Contains:  
 ASGP102BR  
 ASGP102BO  
 ASGP102BG

| Stock No. | Color  | A<br>Opening Size,<br>inches | B<br>Blade Width,<br>inches | C<br>Overall Length,<br>inches |   |   |   |
|-----------|--------|------------------------------|-----------------------------|--------------------------------|---|---|---|
| ASGP1BR   | Red    | 3/8                          | 7/8                         | 10                             | • |   |   |
| ASGP1BO   | Orange | 3/8                          | 7/8                         | 10                             |   | • |   |
| ASGP1BG   | Green  | 3/8                          | 7/8                         | 10                             |   |   | • |
| ASGP2BR   | Red    | 7/32                         | 9/16                        | 9                              | • |   |   |
| ASGP2BO   | Orange | 7/32                         | 9/16                        | 9                              |   | • |   |
| ASGP2BG   | Green  | 7/32                         | 9/16                        | 9                              |   |   | • |



- Plastic handle does not protect against shock
- Read safety precautions on pages W1 to W4

## BODY: DOOR TOOLS



DPT7A



A159



A161B



A177A



A179A



A181



S9538A



S6103A



S9614A

### Door Handle/Trim Pad/Trim Nuts

#### DPT7A 7 pc Door Tool Set

- Includes the seven most needed tools for removing or replacing door trim, trim pads and handles
- Includes storage tray

#### A159 Door Handle Tool

- For most GM® cars, trucks (except Cadillac®) and some Ford® cars
- Plastic dipped offset handle
- 10-7/8" long

#### A161B Trim Pad Remover

- For GM®, Ford® and Chrysler® vehicles and most imported vehicles
- Features a screwdriver type handle
- 7-3/4" long

#### A161BO Trim Pad Remover

- For GM®, Ford® and Chrysler® vehicles
- Features a 7-3/4" long screwdriver type handle

#### A177A Trim Pad Remover

- For most GM®, Ford® and Chrysler® vehicles and most imported vehicles
- Features a 7-1/2" screwdriver-type handle

#### A177AO Trim Pad Remover

- For most GM®, Ford® and Chrysler® vehicles and most imported vehicles
- Features a 7-1/2" screwdriver-type handle
- Same design as A161B except for different applications

#### A179A Trim Pad Remover

- For all GM® door trim panels
- Curved blade helps remove plastic clips and nail type clips without damage to either the clips or the trim

#### A181 Trim Pad Remover

- Services plastic trim fasteners on Honda®, Toyota®, Acura®, Hyundai® and some Ford® trucks
- Similar in design to A161B
- 7-1/2" long
- Not included in DPT7A set

#### S9538A Door Handle Tool

- For most late model Chrysler® vehicles
- Hook end is designed for use on older style handles

#### S6103A Door Trim Palnut Driver

- For Ford® and GM® vehicles
- For easy servicing of 3/8" internal hex trim nuts used on door trim panels and molding
- 1/4" drive, 1-7/8" long overall

#### S9614A Trim Nut Driver

- For GM® vehicles
- Similar to S6103A but is for use with 5/16" internal hex trim nuts
- 1/4" drive, 1-7/8" long overall

### Upholstery and Trim Tools

- Remove door and trim panels quickly without damage
- Wide blades on door tools reduce risk of damage during panel removal
- Stainless steel blades are heat treated for rigidity
- Comfortable composite handles feature a contour thumb stop for maximum control



UTS105A

Set Contains:

UTS105A

| Stock No. | Description                                       | Blade Width, inches (mm) | Overall Length, inches (mm) |   |
|-----------|---|--------------------------|-----------------------------|---|
| UTV614A   | V Double Step Blade Door Panel Tool (Blue-Point®) | 1-1/4 (31.8)             | 9-1/8 (231.8)               | • |
| UTV615A   | U Blade Door Panel Tool (Blue-Point®)             | 1-1/4 (31.8)             | 9-1/8 (231.8)               | • |
| UTV616A   | U Blade Mini Trim Panel Tool (Blue-Point®)        | 1/2 (12.7)               | 9 (228.6)                   | • |
| UTV617A   | V Blade Mini Trim Panel Tool (Blue-Point®)        | 1/2 (12.7)               | 9 (228.6)                   | • |
| UTV618A   | Reverse "U" Blade Door Panel Tool (Blue-Point®)   | 1-1/4 (31.8)             | 10 (254)                    | • |



YA610A



YA1201

YA214

### Specialty Door Tools

#### YA610A Lock Opening Reforming Tool (Blue-Point®)

- Reforms damaged lock openings to original contour on GM®, Ford®, Chrysler® and most import cars

#### YA1201 Door Panel Remover (Blue-Point®)

- For GM® and Ford® vehicles
- Designed to prevent plastic barbed fasteners from being pulled through the panel

#### YA214 Door Hinge Adjuster (Blue-Point®)

- Adjusts door hinge position on most vehicles
- Works on either bolted or welded hinges
- Two-headed pin adaptor allows adjustment on doors with both small and large latches
- 24" overall length



**Door Hinge Tools**

| Stock No. | Description (Chart) | Size  | Hex Size | Length |
|-----------|---------------------|-------|----------|--------|
| BMAS60    | Triple Square Bit   | 6 mm  | 5/16"    | 13/16" |
| BMAS80    | Triple Square Bit   | 8 mm  | 5/16"    | 13/16" |
| BMAS100   | Triple Square Bit   | 10 mm | 5/16"    | 13/16" |
| BMAS120   | Triple Square Bit   | 12 mm | 5/16"    | 13/16" |
| SDMTAS30  | TORX® Bit           | T30   | 5/16     | 13/16" |
| SDMTAS40  | TORX® Bit           | T40   | 5/16     | 13/16" |
| SDMTAS45  | TORX® Bit           | T45   | 5/16     | 13/16" |



**DHS108 † 8 pc Automotive Door Hinge Removal Set (Blue-Point®)**

- Door hinge applications include VW®, Audi®, Jeep® Cherokee® (1997 and 1998) and early model Ford® Escort®
- Various applications on Audi®, VW®, and Mercedes® vehicles plus Mercedes rear toe adjustment and head bolts on some early models
- Set includes DHW1 ratcheting bit wrench, BMAS60 through BMAS120 triple square sockets (6–12 mm) and SDMTAS30 through SDMTAS45 TORX® sockets (T30–T45)
- Plastic storage pouch and bit holder included EU GB

**DHW1 † 5/16" Hex Drive Reversible Ratcheting Bit Wrench (Blue-Point®)**

- Overall length: 10-3/4" (273 mm)
- Low head clearance for access to tight spots
- Internal ring in square drive provides more secure bit retention than magnetic models
- Knurled wheel for fingertip control
- Reverse lever positioned for one-hand operation

**YA6620 Door Hinge Bushing Installer for GM® Vehicles (Blue-Point®)**

- Use on GM® vehicles with replaceable silicon bronze door hinge bushings
- Tool provides easy access to restricted areas of the hinge
- Accurately guides and holds the bushing in place while tapping with a hammer or squeezing with pliers
- Applications: Chevrolet® S10 and Sonoma (1982–2004), 1/2 and 3/4 ton trucks (1980–1999), one ton trucks (1980–2001), Blazer® (1980–2005), Suburban® (1980 and later), Tahoe® (1980 and later), Astro® and Express (1980 and later) and Avalanche® (2002 and later)



LPK620



YA511



YA501F



BF272



LOS145C



YA520A

**Lock Picks/Lockout Tools**

**LPK620 Master Lock (Blue-Point®)**

- 37 pc set includes 6 pc import rocker pick set, 12 pc pick set for GM® vehicles, 5 pc Ford® automotive rocker lock pick set, 6 pc Chrysler® lock pick set, 6 pc set for wafer locks on import vehicles, harpoon pick for removing broken keys, tweezer type universal lock turning wrench and a gas cap pick tool

**YA511 Lockout Tool Set (Blue-Point®)**

- Includes (17) specialized tools for unlocking car, van and truck locks
- Includes many of the components of the YA501E set plus additional service components
- Includes a penlight and instruction manual in a kit bag

**YA501F Lockout Tool Set (Blue-Point®)**

- Includes (15) specialized tools for unlocking car, van and truck locks
- Includes J-tool for Japanese vehicles, as well as GM® tool to service Caprice®, Buick® and Oldsmobile® vehicles
- Included Chrysler® tool also services Toyota® Camry® vehicles
- Includes a BF272 Inflatable Wedge and an instruction manual

**BF272 Inflatable Wedge (Blue-Point®)**

- Offers safe entry in a lock-out situation without damage to the body finish
- Slip the deflated unit between door frame and body, inflate wedge by slowly applying pumping pressure to pull the door away from vehicle body
- Can also be used to gain entry by separating the weather stripping from the vehicle window or to adjust body panels

**YA520A Easy Access Door Unlocking Kit (Blue-Point®)**

- Includes (2) plastic wedges to create a gap between door and frame, (1) 54" whale tip, easy-access jim to reach inside door handles and (1) plastic slim jim for use on doorknobs
- New whale tip design places more of the working tip on the lock surface, grabbing and catching the lock more securely

**LOS145C Multi-Piece Lockout Kit (Blue-Point®)**

- No danger of airbag activation or disconnected door linkages
- Actuate the door handle, manual lock button, or electric lock button on 98% of all cars and trucks
- Set includes three piece door unlocking tool that screws together with a connector sleeve for easy assembly and storage. Kit also includes plastic slim jim, two (2) plastic wedges to create a gap between door and frame without damaging door or weather stripping and BF272 Inflatable Wedge
- Use the BF272 to easily separate door from body without damage to the vehicle
- Handle end can be used to enter through the wedged window and grab the lift button
- Plastic tips on whale tip ends can be removed for certain custom grip applications
- For sale to registered locksmiths, police and bonafide repair professionals only



- Do not use "cheater bars" on handles
- Plastic handle does not protect against shock
- † These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## BODY: DOOR TOOLS/SPECIALTY TOOLS



YA335



YA336

### Body Clip Tools

#### YA335 ‡ Body Clip Pliers (Blue-Point®)

- Steel levers enclosed in PMS plastic to prevent scratches
- Tips have a specified angle and size that deliver the most versatile clip tool on the market
- Eliminates need to buy multiple sets of trim clip pliers for different applications
- Specially designed and patented pliers will remove any clip found on trim and bumpers

#### YA336 ‡ Body Clip Pliers (Blue-Point®)

- Will remove almost any clip type from trim and bumpers
- Ergonomic tool with special angled tips for access to tight spaces
- Steel levers are encased in glass-filled nylon for lightweight comfort
- 9" long; 1-1/2" jaw length



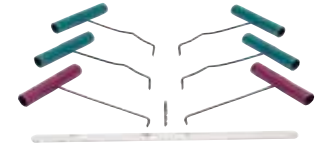
BF801A



BF802A



BF803



BF200

### Suction Cups

#### BF801A Heavy-Duty Suction Cup Tool (Blue-Point®)

- Use for pulling out dents or handling glass
- Handle increases pulling power
- 5" suction cup

#### BF802A Heavy-Duty Dual Suction Cup Tool (Blue-Point®)

- Use for pulling more stubborn dents or lifting larger materials
- Handle has room for two hands
- Trigger releases both 4" cups simultaneously

#### BF803 Suction Cup (Blue-Point®)

- Two finger grips for easy lifting, two projecting tabs for quick-release
- 3-1/4" dia

### Picks/Rods

#### BF200 Pull Rod Set (Blue-Point®)

- Drill 9/64" holes and pull metal to shape
- Includes (4) pull rods, (2) pick pulls, a straight edge and a drill bit
- Rods lift metal without distortion
- No need to remove upholstery

## BODY: WINDOW AND WINDSHIELD



GA243



YA109C



WK100



WK200



A192



YA208A



S9610

### Window and Windshield Removal Tools

#### GA243 Molding Release Tool (Blue-Point®)

- Use to remove window and windshield moldings on cemented glass

#### YA109C Windshield Removal Tool (Blue-Point®)

- Steel cable pull handle
- Replaceable steel cutting blades can be resharpened
- For GM®, Chrysler® vehicles and other cars with windshields set in place with sealant

#### YA109C2 Replacement Handle for YA109C (Blue-Point®)

#### YA109C4 6 Pack Carbon Blades (Blue-Point®)

- Replaceable steel cutting blades can be resharpened

#### WK100 ‡ Windshield Knife (Blue-Point®)

- Cuts hardened urethane down to the dash
- Flush blade retention screw helps prevent damage to the dash and moldings
- Rigid aluminum shaft will not flex
- Long 18" length provides cutting leverage and reach
- Cushion-grip handle for extra comfort
- Includes (1) blade
- Uses YA1860 replacement blades

#### WK200 ‡ 24" Windshield Knife (Blue-Point®)

- Cuts hardened urethane down to the dash
- Flush blade retention screw helps prevent damage to the dash and moldings
- Rigid aluminum shaft will not flex
- Long 18" length provides cutting leverage and reach
- Cushion-grip handle for extra comfort
- Includes (1) blade
- Uses YA1860 replacement blades

#### YA208A Windshield Locking Strip Installation Tool (Blue-Point®)

- Wedge openings in two widths make short work of installing nearly all locking strips
- Includes special tip for Dodge® truck applications
- 4" contoured handle and 4" metal shank

#### A192 Windshield Wiper Arm Removal Tool

- Easily removes wiper arms on most vehicles
- Both wide and narrow prying ends
- Not for use on wiper arms bolted to the shaft

#### S9610 Window Sash Nut Spanner Socket

- 3/8" drive; 15/32" long
- For GM® and Chrysler® cars and light trucks

## BODY: WINDOW AND WINDSHIELD



YA5200A



WSC2



YA6390

### Window Scrapers

#### YA5200A 11" Razor Blade Scraper (Blue-Point®)

- Unique shape fits into tight spots such as the area between dash and windshield
- Uses any standard, single-edge razor blade
- Storage for extra blades in screwdriver handle
- 11" long

#### WSC2 ‡ 8" Plastic Blade Windshield Scraper (Blue-Point®)

- Scrapes windows, windshields and more
- Includes a plastic blade, or use any standard, single-edge razor blade
- 8" long tool folds to only 4-5/8"

### Window Holder

#### YA6390 Window Holder (Blue-Point®)

- Holds side window glass up when working on the regulator
- Suction cups are attached to both sides of the glass with a cable over the door frame, preventing the glass from falling down the door

## BODY: SPECIALTY TOOLS

### Bumper Cover Paint Stands

#### BFS1000B Bumper Cover Painting Stand

- Stand holds the bumper cover securely for painting
- Five different locking positions on the stand and full 90° rotation provide maximum versatility
- Lightweight at 23 lb and compact to store
- Casters provide full mobility



BFS1000B

NYZ7007HD

### Mastic Removal Tools

#### NYZ7007HD Manual Mastic Removal Kit

- Hand kit is ideal for aviation, automotive and industrial use, especially for delicate jobs and limited access scraping applications
- Blades are sharpened with sandpaper, small stone or optional pneumatic sharpener
- Kit includes (6) 1" blades, (6) 1/2" blades, (3) 1/4" blades and an ergonomic rubber handle

#### NYZ7026EH Blade Holder

- Vulcanized rubber padded blade holder, works exclusively with blades
- Fits comfortably in the user's hand, reduces operator fatigue and helps to prevent injury

## BODY: ANTENNA/MIRROR

### Mirror and Radio Trim Sockets

#### YA7575 Radio Removal Tool for Ford® Vehicles (Blue-Point®)

- Insert tool components into holes on the radio faceplate to release the retaining clips on the radio
- Same as Ford® No. T87P-19061-A
- Radio removal tool

#### S8703 Remote Control Mirror Socket

- Hollow socket clears adjustment lever; two-prong socket has a 3/8" square drive
- 19/32" dia. on drive end; 21/32" dia. on socket end
- 2-1/16" long
- Nickel-chrome finish
- Services many Ford® and VW® vehicles

#### S9605B Radio Trim Nut Socket

- Similar in appearance and function to S8703



YA7575

S8703

S9605B

### Antenna Nut Sockets

#### S6166 Antenna Nut Socket

- Three-prong socket with 11/16" external hex
- 3/4" dia., 1-1/2" long
- Services 1987-later Chrysler® vehicles

#### 2160ANT Antenna Wrench (Blue-Point®)

- Four configurations will fit most antenna bezel nuts on US and import vehicles
- 10 mm opening for removing mast-type antennas
- Measures 7-1/4 x 1-1/2 x 1/8"
- Anodized finish



S6166

2160ANT



- Do not use "cheater bars" on handles
- Do not use chrome or industrial finish hand tools with impact drivers
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## BODY: GENERAL SERVICE TOOLS



SWDK4

### Spot Weld Cutters

#### SWDK4 4 pc Spot Weld Cutter Set (Blue-Point®)

- Patented self-centering tip design prevents walking
- Operates at speeds up to 2,000 RPM
- Much faster than hole saw cutters
- Leaves a clean hole with minimal need for grinding

#### SWDK412 1/2" Spot Weld Cutter (Blue-Point®)

#### SWDK414 1/4" Spot Weld Cutter (Blue-Point®)

#### SWDK438 3/8" Spot Weld Cutter (Blue-Point®)

#### SWDK4516 5/16" Spot Weld Cutter (Blue-Point®)



BFLIGHT1500A

### Infrared Curing Light

#### BFLIGHT1500A Infrared Curing Lamp (120 V AC)

- Use to cure paint, primer, body filler, bonding adhesive and plastic repair products
- Adjustable lamp height and pivot
- Four swivel casters for easy maneuverability
- UL® listed
- All metal construction
- Cure times at 18" from surface
  - 10 minutes: 2K primers, waterborne base coat, filler/stoppers
  - 15 minutes: 2K plastic repair, plastic body fillers, acrylic enamels
  - 30 minutes: 2K top coats, high build primers, structural adhesives, synthetic enamels, high solids clear
  - 35 minutes: polyurethane



ET1400

### Heat Gun

#### ET1400 Heat Gun

- Variable temperature selection
- UL® listed
- Up to 1,050 °F with three-way switch
- 3" (75 mm) spreader directs air over a wide area for window tinting, drying compounds, removing graphic films, etc.
- 1-1/2" (39 mm) reflector circulates hot air for even heating to shrink tubing and form plastic
- Variable temperature dial offers versatile 140–1,050° output for use in a wide variety of applications and materials
- Reinforced heating element outperforms and outlasts traditional elements. Soft grip handle provides comfortable long-term operation, and helps reduce hand and wrist fatigue
- Three-stage airflow includes two airflow settings with heat and the selectable cool air stage for maximum user control
- 6' industrial grade rubber cord will not crack due to age or cold temperature
- Two Year Warranty

## HEADLAMP AIMING

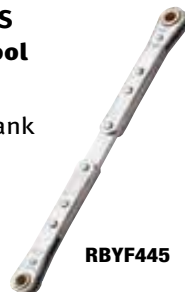


HE52B

### Headlamp Spring Tools

#### HE52B Headlamp Spring Tool

- For servicing alignment springs
- Consists of a 3/16" dia. shank anchored in a screwdriver style handle
- 7" long



RBYP445

### Headlamp Adjusters

#### RBYP445 † 4–4.5 mm Ratcheting Headlight Wrench (Blue-Point®)

- 8" overall length allows access to headlight adjustment screws
- Applications work on most late-model Ford® vehicles with 4 mm and 4.5 mm adjusters (found on aerodynamic designs) and headlights with rear mount adjusters

## PAINT SPRAY: SPRAY GUNS



BLP13HVLP



BLP14HVLP



BLP15HVLP



BLP18HVLP



BLP10MHVLP

A new generation of Blue-Point® spray guns for primer, base and clear coat. Designed for the automotive refinishing painter. Lightweight and well-balanced, while delivering a quality, first-class automotive finish.

Lowest trigger pull among guns in their class. Unmatched spray pattern size and quality repair kits. Optional interchangeable 125 cc aluminum cups are available. Full one-year warranty.

### Full Size, HVLP

| Stock No.  | Fluid Tip, mm | Air Consumption, SCFM | Max. Inlet HVLP PSI (bar, kPa) | Dry Weight Without Cup, oz (grams) | Air Inlet Thread Size, NPSM | Cup Size, cc | Application                      |
|------------|---------------|-----------------------|--------------------------------|------------------------------------|-----------------------------|--------------|----------------------------------|
| BLP13HVLP  | 1.3           | 9.5                   | 29 (2.0, 200)                  | 12.6 (359)                         | 1/4"                        | 600          | High Solids, Colors and Clears   |
| BLP14HVLP  | 1.4           | 9.5                   | 29 (2.0, 200)                  | 12.6 (359)                         | 1/4"                        | 600          | High Solids, Colors and Clears   |
| BLP15HVLP  | 1.5           | 9.5                   | 29 (2.0, 200)                  | 12.6 (359)                         | 1/4"                        | 600          | Medium Solids, Colors and Clears |
| BLP18HVLP  | 1.8           | 9.5                   | 29 (2.0, 200)                  | 12.6 (359)                         | 1/4"                        | 600          | Primer, High Viscosity Materials |
| BLP10MHVLP | 1.0           | 7.0                   | 29 (20, 200)                   | 11.4 (322)                         | 1/4"                        | 125          | Primer, Base and Clear           |

### Full Size, Conventional

| Stock No. | Fluid Tip, mm | Air Consumption, SCFM | Max. Inlet HVLP PSI (bar, kPa) | Dry Weight Without Cup, oz (grams) | Air Inlet Thread Size, NPSM | Cup Size, cc | Application                      |
|-----------|---------------|-----------------------|--------------------------------|------------------------------------|-----------------------------|--------------|----------------------------------|
| BLP14CONV | 1.4           | 9.5                   | —                              | 12.6 (359)                         | 1.4"                        | 600          | All Automotive Colors and Clears |



BLP14CONV

### Economy, HVLP

| Stock No.  | Fluid Tip, mm | Air Consumption, SCFM | Air Inlet Thread Size, NPSM | Air Pressure Range, PSI | Fluid (water) Delivery | Cup Size, cc |
|------------|---------------|-----------------------|-----------------------------|-------------------------|------------------------|--------------|
| BLPK14HVLP | 1.4           | 14.5                  | 1/4"                        | 30-43                   | 190-250 mL/min         | 600          |



BLPK14HVLP

## SPRAY GUN ACCESSORIES



BF7130



### Air/Fluid Hoses

#### BF7220 Fluid Hose

- 25' x 3/8" I.D. Fluid Hose with 3/8" FPT connectors

#### BF7130 Air/Fluid Hose Kit

- 6' hose kit for the BF652 pressure cup
- Kit includes 5/16" I.D. air hose with 1/4" FPT connectors and 1/4" I.D. fluid hose with 3/8" FPT connectors



BF16111

### Air Caps and Service Kits

#### BF16111 Air Cap

- General duty cap (red ring)



BF755

### Gravity Feed Cups

#### BF755 Aluminum Gravity Feed Cup

- 34 oz (1 Liter) capacity aluminum gravity feed cup
- Use with all Snap-on® HVLP gravity feed spray guns and BF814 non-HVLP gravity feed spray gun

## PAINT SPRAY: SPRAY GUN ACCESSORIES

### Air Pressure Regulators

#### BF1410 Air Pressure Regulator

- Small, lightweight, true diaphragm mini regulator attaches to any spray gun (including HVLP models) for accurate air pressure regulation
- Push/Pull lock pressure setting
- Features easy-to-read 0-160 PSI gauge
- Capacity of 22 CFM (158 SCFM) [623 L/min]

#### YA999 Air/Water Separator (Blue-Point®)

- Separates water from compressed air
- Includes drain valve for periodic draining
- 3-1/2" in length, 1-1/2" dia



YA999



BF1410



- Do not remove or bypass the grounding prong on any electrical plug
- Use in well ventilated areas
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## PAINT SPRAY: SPRAY GUN ACCESSORIES



BF520A



BF521A



BF530A



BF540A



### Air Filters/Air Control Units

#### BF520A Air Filter

- Reusable edge type 5 micron filter element
- Highly effective at removing water, oil and other contamination
- Air Inlet: 1/2" FPT; Air Outlets: 3/8" FPT and 1/4" FPT (plugged)
- Filter capacity: 75 CFM

#### BF521A Air Control Unit

- Includes regulator with 160 PSI inverted gauge and air cock
- Two regulated outlets
- One filtered main line outlet
- Air Inlet: 1/2" NPT(f). Filter Capacity: 75 CFM
- Regulator capacity: 50 CFM

#### BF530A Air Filter

- Reusable edge type 5 micron filter element
- Highly effective at removing water, oil and other contamination
- Air Inlet: 1/2" FPT Air Outlet: two outlets @ 3/8" FPT
- Filter Capacity: 120 CFM

#### BF540A Mechanic's Air Filter

- Portable, mounts easily anywhere
- Designed for use with quick couplers
- Air Inlet: 1/4" FPT; Air Outlets: 1/4" FPT and 1/4" FPT (plugged)
- Filter capacity: 75 CFM



BF1210



BF525



BF550



BF555



BF7000

### Air Valves/Air Regulators

#### BF1210 Green Zone Air Regulator

- Reads both inlet pressure and air cap pressures

#### BF525 Air Pressure Regulator

- Two regulated outlets
- Includes 160 PSI air gauge and air cock (1/4" MPT)
- Capacity: 50 CFM

#### BF550 Air Adjusting Valve

- Precision-tapered valve
- Full open to close with approximately four turns; infinitely adjustable
- Large, easy-to-handle inlet: 1/4" MPT; air outlet: 1/4" FPT (swivel nut)

#### BF555 Air Adjusting Valve with Gauge

- Designed for use with HVLP spray guns
- Includes a 160 PSI pressure gauge
- Air inlet: 1/4" MPT; air outlet: 1/4" FPT (swivel nut)

#### BF7000 Disposable InLine Filter

- Disposable filter removes contaminants that condense in the air hose between wall-mounted filter and spray gun
- Reduces paint defects
- Easy installation
- Card of two filters



AHCC90C

### High-Volume Hose Connectors

#### AHCC90C ‡ Female Quick Coupler (Blue-Point®)

- High-volume 1/4"
- Designed to deliver high volumes of air to spray guns and air tools

#### AHCC91C ‡ Quick Coupler (Blue-Point®)

- High-volume 1/4" male quick coupler
- Designed to deliver high volumes of air to spray guns and air tools

#### AHCC97C ‡ Impact Wrench Adaptor (Blue-Point®)

- Use with AHCC98C high-flow coupler to improve low-pressure performance of 1/2" drive impact wrenches and other high air consumption tools



BF9893



MRB20

### Paint Gun

#### Hooks/holders

#### BF9893 Spray Gun Holder

- Stand holds up to three gravity feed paint spray guns at one time for refilling
- Adjustable strainer holder
- Steel construction

#### MRB20 Magnetic Paint Gun Hook (Blue-Point®)

- Eliminates having to drill holes in the paint booth to hang a paint gun

## BF180B Air Compressor

- Portable 1/10 HP oil-less diaphragm type compressor features internal bleed
- Compact, lightweight and quiet
- Maximum running pressure of 33 PSI 115 V, 60 Hz, 2.5 A



BF180B

## BF170A Airbrush Set

- Dual action, internal mix, bottom feed airbrush
- Single needle/nozzle design sprays a variety of reduced acrylics, enamels, lacquers, glazes and airbrush-ready paints
- Excellent choice for multiple applications
- Includes: airbrush, mixing jars, air hose, color cup, extra needle and instruction manual



BF170A

## BF360 Airbrush Set

- Rotating paint reservoir allows gravity or bottom feed
- Engineered to require only one size tip, regulator and needle for application of any properly reduced medium including acrylics gouache, inks, dyes, enamels, lacquers and stains
- Includes: airbrush two 2 oz jars, one 3/4 oz jar, 6' braided hose, extra needle and tip plus foam lined storage case



BF360

## BF171 Airbrush Set

- Single action, external mix, bottom feed airbrush
- Air and paint mix outside the airbrush, creating a larger, coarser dot pattern while providing a heavier spray volume
- For base coating, touch-up projects and automotive painters
- Sprays higher viscosity materials like glazes, stains, enamels and lacquers
- Includes: airbrush, mixing jars, air hose and instructions



BF171

## BF175TA Airbrush Set

- Dual action, internal mix, bottom feed airbrush
- Choice of fine, medium or heavy needle/heads
- Sprays a wide range of properly reduced acrylics, enamels, lacquers, glazes and airbrush ready paints
- Includes: airbrush, mixing jars, air hose, color cup, extra tip, spray regulator, needle and instruction manual in a storage case



BF175TA

## BF105 Gravity Feed Airbrush Set

- Ideal for graphic arts and automotive illustration
- Dual-action, internal-mix, gravity-feed airbrush for professional results
- Precise performance for tight line detail
- Ergonomically balanced for hours of comfortable spraying
- Single-needle, single-tip configuration
- 1/3 oz permanently mounted color cup
- Sprays any properly reduced paints
- Operates with lower pressure
- 10-15 PSI
- Optional needle, regulator and tip available for a finer spray



BF105

## PAINT SPRAY: PAINT GUN CLEANERS/SAFETY EQUIPMENT

### Cabinet-Style Paint Gun Cleaner

#### PGC500A Paint Gun Cleaner

- Cleans paint guns in less than two minutes
- Meets SCAQMD air quality rule 1171
- Air safety switch on lid
- Features a high-torque rotary vane air motor that requires only 7 CFM at 60 PSI
- Regulator and gauge are included
- Seal-less magnetic drive pump supplies powerful cleaning action, no seals to wear out or replace
- Sprays solvent at 85 PSI
- Reduces solvent consumption up to 90%
- Measures 30" H, 26" L and 24" W in the top



PGC500A



- Do not remove or bypass the grounding prong on any electrical plug
- Use in well ventilated area
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## PAINT SPRAY: PAINT GUN CLEANERS/SAFETY EQUIPMENT



YA7327



YA7329



BFCB101



EQFSC45M

### Paint Gun Cleaning Brushes

#### YA7327 Paint Gun Cleaning Brush (Set of 5) (Blue-Point®)

- For external paint guns
- Can be used with commonly used cleaning solvents (do not use with solvents marked corrosive)
- Nylon bristles
- 7-1/2" L

#### YA7329 Paint Gun Cleaning Brush (Set of 5) (Blue-Point®)

- Similar to YA7327 but designed for fluid tip paint guns
- 7-3/4" L

#### BFCB101 Paint Gun Cleaning Brush Kit

- General-purpose spray gun cleaning kit
- Includes 7 pc. stainless steel needle set with handle, 5 pc. precision mini-twisted brush set, 3/8" pick-up tube brush (12" L), 3/16" nylon end brush, 1/2" nylon body cavity brush, nylon bristle exterior body brush and 1/4" nylon HVLP brush

### Flammables Storage Cabinet

#### EQFSC45M Flammables Storage Cabinet

- Standard Doors
- 16-gauge walls with full 2" air walls. 45-gallon capacity with 5-gallon spill pan
- Removable fork lift channels for convenient movement and placement of cabinet
- Complies with OSHA #29 CFR 1910, NFPA Code #30 and UFC Code #79
- Spill containment exceeds 5-gallon EPA requirement

| Stock No. | Outside Height | Outside Width | Outside Depth | Inside Height | Inside Width | Inside Depth |
|-----------|----------------|---------------|---------------|---------------|--------------|--------------|
| EQFSC45M  | 65"            | 43"           | 18"           | 60"           | 40"          | 15"          |

## PORTABLE PRESSURE BLAST SYSTEMS



YA432

### Gravity-Fed Portable Pressure Blast Systems

#### YA432 Gravity-Fed Siphon Sandblast System

- Portable design is ideal for quick spot cleanups or larger jobs such as body and frame restorations
- Capacity: 40 lb of abrasive
- Hose length 10' with 5/16" nozzle
- Requires 10-18 CFM at 100 PSI

## ABRASIVE BLAST SYSTEMS: PORTABLE PRESSURE BLAST SYSTEMS



YA441



YA448

### Air-Powered Portable Pressure Blast Systems

#### YA441 Pressure Blast System

- For cleaning jobs on large surface areas
- Cleans a variety of materials such as concrete, stone, brick and steel
- Unit has a convenient remote control shut down at nozzle handle
- Hose length 25', with 1/4" nozzle
- Capacity: 250 lb of abrasive
- Requires 80 CFM at 100 PSI

#### YA448 Pressure Blaster System

- For cleaning jobs where a minimal capacity of media is required
- Cleans a variety of materials such as concrete, stone, brick and steel
- Media is controlled by stainless steel ball valve at nozzle handle
- Capacity: 40 lb of abrasive
- Requires 21 CFM at 100 PSI
- Hose length 8' with 1/8" nozzle

#### YA449A Pressure Blast System (Not Shown)

- Cleans a variety of materials such as concrete, stone, brick and steel
- Media is controlled by stainless steel ball valve at nozzle handle
- Capacity: 100 lb of abrasive
- Requires 21 CFM at 100 PSI
- Hose length 10' with 1/8" nozzle



# ABRASIVE BLAST SYSTEMS: CABINET-TYPE

Snap-on® abrasive blast systems effectively clean metal parts right down to the bare substrate. The applications vary from automotive, manufacturing, restoration to tool

and die shops, marine repair and electric motor rebuilders. Cabinet sizes vary from medium sized to larger pressure-fed systems.

## Cabinet-Type Abrasive Blast Systems

- Features a clamshell lid to assist in loading heavy parts (except for YA3626)
- Side door for loading smaller parts
- Variable-output blast gun with trigger-style control
- High-efficiency dust collection system
- Provides the user excellent visibility during blasting
- Separates dust from usable media, minimizing waste
- Lower noise output
- Heavy-duty steel grating in the work area for heavier parts
- Dual fluorescent lights in the work area for increased visibility
- Includes 25 lb of glass bead abrasive (except YA3626)



YA3825

YA3626

YA4826PA

| Specifications                 | YA3825*                   | YA3626*                       | YA4826PA              |
|--------------------------------|---------------------------|-------------------------------|-----------------------|
| Inside Dimensions, inches      | 37-1/2 W x 26 D x 16-24 H | 35-1/2 W x 23-1/2 D x 16-23 H | 48 W x 24 D x 14-23 H |
| Side Door Dimensions, inches   | 17-1/2 W x 12 H           | 18 W x 12 H                   | 19 W x 13 H           |
| Top Opening Dimensions, inches | 37-1/2 W x 25 H           | 37 W x 14 H                   | 48 W x 24 H           |
| Overall Dimensions, inches     | 38 W x 26 D x 70 H        | 36 W x 24 D x 58 H            | 52 W x 25 D x 60 H    |
| Dust Collection Size in CFM    | 205                       | 100                           | 160                   |
| Electrical Requirements        | 120 V AC, 60 Hz           | 120 V AC, 60 Hz               | 120 V AC, 60 Hz       |
| European Models                | YAH3825EUR                | —                             | —                     |

NOTE: European model is 230V AC, 50/60 Hz, Single Phase.

\*Blue-Point®

Colors Available



\* ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

## Industrial Style Blast Cabinets

- Dust collection system provides user with excellent visibility and features polysateen bags to capture dust and debris
- Dual fluorescent lights in work area for increased visibility
- Heavy-duty steel grating in work area to support heavier parts



YA4224

YA435

YA437

| Stock No. | Inside Dimensions, inches | Dust Collection Size in CFM | Side Door Dimensions, inches | Top Opening Dimensions, inches | Overall Dimensions, inches | Air Supply Required | Electrical Requirements | European Models (230 V AC, 50 Hz) |
|-----------|---------------------------|-----------------------------|------------------------------|--------------------------------|----------------------------|---------------------|-------------------------|-----------------------------------|
| YA4224    | 41 W x 23 D x 29 H        | 205                         | 18 W x 17 H                  | 39-1/2 W x 12 H                | 43 W x 24 D x 73 H         | 25 CFM at 100 PSI   | 120 V AC, 60 Hz         | YAH4224EUR                        |
| YA435     | 40 W x 26 D x 15-23 H     | 270                         | 17 W x 13 H                  | 39 W x 24 H                    | 40 W x 27 D x 66 H         | 18 CFM at 100 PSI   | 120 V AC, 60 Hz         | YAH435-EUR                        |
| YA437     | 42-1/2 W x 44 D x 33 H    | 405                         | 42 W x 35 H                  | —                              | 44 W x 44 D x 78 H         | 25 CFM at 100 PSI   | 120 V AC, 60 Hz         | YAH437-EUR                        |

NOTE: European models are 230 V AC, 50/60 Hz, single phase.

CE

TECHNICAL SUPPORT: 1-800-253-3661

### YA4224 Abrasive Blast Cabinet with Foot Control

- Right hand door for smaller parts and top-opening lid for larger parts
- Foot pedal control for media delivery reduces operator fatigue

### YA435 Abrasive Blast Cabinet

- Right hand door for smaller parts and full front opening door for larger parts
- Variable output blast gun with trigger style control

### YA437 Large Abrasive Blast Cabinet with Foot Control

- Features a turntable to assist in cleaning larger or multiple parts easily
- Right and left hand doors allow access to turntable
- Foot pedal control for media delivery reduces operator fatigue



- Do not direct air or fluid stream at body
- Use in well ventilated area
- Do not expose solvent to flames, sparks or other source of ignition
- Read safety precaution on pages W1 to W4

## SANDBLASTERS



PSB500AR

### Small Sandblasters

#### PSB500AR Portable Sandblasting Gun

- For cleaning small areas quickly
- Lightweight aluminum construction
- Flat base provides an upright resting position
- Media capacity 4 lb
- Requires 5-12 CFM at 100 PSI



YA428A

### Vacuum Sandblasters

#### YA428A Vacuum Sandblaster

- Quickly blasts away rust, dirt and paint
- Features a vacuum recovery system at the blast nozzle to eliminate mess
- Media is recycled for continuous use
- Dust is captured in the container for easy disposal
- Wheels and casters improve mobility
- Vacuum recovery system 90 CFM
- Measures 49 x 18 x 18-1/2"
- Requires 14 CFM at 100 PSI and 120 V AC 60 Hz
- European model: YAH428AEUR 230 V AC 50/60 Hz



SODABLAST

### Blast System Accessories

#### SODABLAST 2 pk Soda Blast Media

- Sodium Bicarbonate, NaHCO<sub>2</sub>, pH 8.6
- Gently cleans surfaces without prewash
- Water soluble, non-toxic and non-hazardous degreasing
- Strips paint without damaging surrounding surface and leaves a brushed surface for improved paint adhesion
- Removes carbon deposits from engine components
- Sold in resealable 13 lb, 5 L plastic container, sold per case with (2) jugs per unit
- Replacement blasting media is packaged in plastic jug to protect the material from moisture, and prevent clumping and contamination; wide-mouth 5 L jug is easy to carry, pour, and store



JWLSB2

### Handheld Abrasive Blast Systems

#### JWLSB2 Sodablaster

- Easily removes paint, carbon deposits, grease, rust, gasket material, adhesives and other coatings
- For use on metal, plastic, wood and composite surfaces without damaging the substrate
- Reduces the need for masking and grinding
- Uses sodium bicarbonate blast media—material requires no special cleanup methods or handling, is a natural degreaser and deodorizer, and rinses away with water

#### JWLSB2-1 3 pc Wide Nozzle Replacement

#### JWLSB2-2 Steel Nozzle Replacement



JWLSB2-1



JWLSB2-2

# ABRASIVE BLAST SYSTEMS: SANDBLASTING ACCESSORIES



## Abrasives

### YA428-1 C-Garnet Abrasive

- Does not break down as quickly as silica sand
- Creates less dust
- 40 lb bucket

### YA461A Glass Bead Abrasive (Coarse)

- For coarse satin finish with minimum surface removal
- 40–60 coarse grit, 50 lb bucket

### YA462A Glass Bead Abrasive (Medium)

- For medium satin finish with minimum surface removal
- 60–100 medium grit, 50 lb bucket

### YA463A Glass Bead Abrasive (Fine)

- Use for fine satin finish with minimum surface removal
- 100–200 fine grit, 50 lb bucket

### YA466A Aluminum Oxide Abrasive

- A tough abrasive used for fast removal of heavy oxidation and burrs
- Low dust and good recycling
- 50 lb bucket

### YAD4000 Steel Grit Abrasive

- Use for rough cleaning and for removing rust and scale
- 50 lb bucket

### YAD4003 Steel Shot Abrasive

- Use for peening and cleaning castings and forgings
- 50 lb bucket



YAD100A



YAD10102A



YAD007A

## Blast System Accessories

| Stock No. | Nozzle    | Air Jets  | Blast Gun | Blast Gloves | Window Film Replacement | Replacement Filter |
|-----------|-----------|-----------|-----------|--------------|-------------------------|--------------------|
| YA3626    | YAD105    | YAD104    | YAD100A   | YAD007A      | YAD20061                | YAD723A            |
| YA4826PA  | YAD2304   | —         | —         | YAD007A      | YAD20061                | YADV723A           |
| YA3825    | YAD105    | YAD104    | YAD100A   | YAD007A      | YAD20061                | YAD714             |
| YA3825PJJ | YAD105    | YAD104    | YAD100A   | YAD007A      | YAD20061                | YAD714             |
| YA3825PJK | YAD105    | YAD104    | YAD100A   | YAD007A      | YAD20061                | YAD714             |
| YA4224    | YAD10104A | YAD10105A | YAD10102A | YAD007A      | YAD20061                | YAD674             |
| YA435     | YAD115    | YAD104    | YAD100A   | YAD007A      | YAD20061                | YAD019             |
| YA437     | YAD10104A | YAD10105A | YAD10102A | YAD007A      | YAD20061                | YAD018             |

## Cabinet-Type Abrasive Blast Systems

### YAD3976 Dust Collector (Blue-Point®)

- Optional Dust Collection System for YA3220 Blast Cabinet
- Provides an effective method to remove dust and debris from inside cabinet for better visibility
- 100CFM 120 V AC 60Hz



YAD3976

## Helmets/Hoods

### YA415A Cotton Twill Hood

- Bump Cap protects head, face and neck from dust



YA415A



- Do not direct air or fluid stream at body
- Use in well ventilated area
- Read safety precaution on pages W1 to W4

## C-CLAMPS



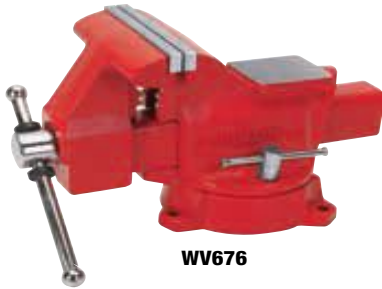
CL537A

### Medium-Duty C-Clamps

- Maximum strength ribbed iron frame
- Steel screw with full standard threads and sliding T-handle
- Large anvil and steel swivel pad to ensure secure clamping
- Deep throat style

| Stock No. | Throat Depth, inches | Capacity, inches | Spindle Dia., inches |
|-----------|----------------------|------------------|----------------------|
| CL537A    | 3-1/2                | 2                | 5/16                 |
| CL546A    | 6-1/4                | 2-1/2            | 3/8                  |

## VICES



WV676

### Utility Vises

- Regular duty utility vises can be used for a variety of shop applications
- Replaceable serrated jaws, built-in pipe jaws, swivel base and large anvil to handle a variety of jobs

| Stock No. | Jaw Width, inches | Maximum Opening, inches | Pipe Capacity, inches | Throat Depth, inches |
|-----------|-------------------|-------------------------|-----------------------|----------------------|
| WV648     | 8                 | 7-1/2                   | 1/8-3                 | 4-1/2                |
| WV656     | 6                 | 6                       | 1/8-3                 | 4-1/4                |
| WV674     | 4-1/2             | 3-3/4                   | 1/8-2                 | 2-5/8                |
| WV675     | 5-1/2             | 4-3/4                   | 1/8-2                 | 3-7/16               |
| WV676     | 6-1/2             | 5-3/4                   | 1/8-2-1/2             | 3-11/16              |



WV1560VIS

### High-Visibility Safety Vises

- Coated in High-Visibility yellow, which conforms to the OSHA safety color standard for physical hazards regulation #1910.144
- Powder-coat finish resists scratches and gives a tough, durable finish
- Handles and lockdowns are black oxide coated for additional corrosion resistance
- Units feature a straight-line design with a totally enclosed spindle and nut, replacement pipe and serrated vise jaws
- 360° swivel base

| Stock No. | Jaw Width, inches | Maximum Opening, inches | Pipe Capacity, inches |
|-----------|-------------------|-------------------------|-----------------------|
| WV1550VIS | 5                 | 5-1/4                   | 1/4-2-1/2             |
| WV1560VIS | 6                 | 5-3/4                   | 1/4-3-1/2             |



WVC3

### Pipe and Bench Vises

- Large anvil, totally enclosed spindle and nut
- 60,000 PSI high-ductile iron for the main stress parts
- Replaceable steel vise jaw inserts and milled steel pipe jaws
- Alloy steel slide bar

| Stock No. | Jaw Width, inches | Maximum Opening, inches | Pipe Capacity, inches | Throat Depth, inches |
|-----------|-------------------|-------------------------|-----------------------|----------------------|
| WVC3      | 6                 | 9                       | 3/8-6                 | 6-5/8                |

### Bench Vises (Blue-Point®)

- Single-piece steel blocks for a higher load capacity
- Extended anvil
- Lubrication points for maintenance
- Swivel base
- Capacity range from 3.5–9 ton at maximum opening
- Reinforced cantilever support

- Interchangeable jaws
- Diamond ground for a better grip
- Heavy-duty cast iron construction
- Precise jaw alignment
- Rolled thread spindle for ease of locating and tightening parts
- Protected spindle



BLPMV5

| Stock No. | Jaw Width, inches |
|-----------|-------------------|
| BLPMV4    | 4                 |
| BLPMV5    | 5                 |
| BLPMV6    | 6                 |

### Forged Bench Vises

- Hardened reversible jaws can be reversed for non-marring applications or replaced when worn
- Competitive forged units do not offer replaceable jaws

- 360° swivel base increases versatility because vise can be locked in virtually any position
- Jaw adjustment screws ensure proper alignment and accuracy



WVE105RT

| Stock No. | Jaw Width, inches | Maximum Opening, inches | Pipe Capacity, inches |
|-----------|-------------------|-------------------------|-----------------------|
| WVE104RT  | 4                 | 3-15/16                 | 1/4–3/4               |
| WVE105RT  | 5                 | 5-7/8                   | 1/2–2-1/2             |
| WVE106RT  | 6                 | 7-7/8                   | 1/2–3                 |
| WVE107RT  | 7                 | 8-7/8                   | 3/4–4                 |

### Jaw Caps

**WVA Series:** Aluminum grooved caps hold uneven and circular pieces.

**WVF Series:** Caps with heat-resistant, laminated fibers help prevent outside materials from being absorbed.

**WVP Series:** Prism caps have horizontal and vertical grooves for marking out, center punching, light tapping and thread cutting.

**WVR Series:** Caps have rubber covers.

| Stock No. | Description         | Size, inches |
|-----------|---------------------|--------------|
| WVA4      | Aluminum Alloy Face | 4            |
| WVA5      | Aluminum Alloy Face | 5            |
| WVA6      | Aluminum Alloy Face | 6            |
| WVF4      | Fiber Face          | 4            |
| WVF5      | Fiber Face          | 5            |
| WVF6      | Fiber Face          | 6            |
| WVP4      | Prism Face          | 4            |
| WVP5      | Prism Face          | 5            |
| WVP6      | Prism Face          | 6            |
| WVR4      | Rubber Face         | 4            |
| WVR5      | Rubber Face         | 5            |
| WVR6      | Rubber Face         | 6            |
| WV4044    | Copper Jaw Cap      | 4            |
| WV4045    | Copper Jaw Cap      | 5            |
| WV4046    | Copper Jaw Cap      | 6            |



## WORKBENCHES AND PRESSES



BPWORKBENCH



EQ2311DT



EQG2223K5



EQG245U5



BPWKBNCHX



BPWKBNCHX-1



BPWKBNCHX-2



CG100

| Specifications              | CG100                               |
|-----------------------------|-------------------------------------|
| Dimensions                  | 11-1/8" W x 18" H                   |
| Pressure, tons              | 3                                   |
| Base Size                   | 11-1/8 x 6-1/8"                     |
| Vertical Capacity           | 12-3/4"                             |
| Opening Width               | 9"                                  |
| Width Between Work Brackets | 9"                                  |
| Pressure Shaft Stroke       | 9" (when utility punch is attached) |

### Workbenches and Tables

#### BPWORKBENCH Heavy-Duty Workbench (Blue-Point®)

- Full bottom shelf and superior powder-coat finish
- Net weight: 139 lb
- Weight capacity: 1,200 lb
- Top panel: 13-gauge steel
- Bottom shelf: 13-gauge steel
- Steel support: 12-gauge steel
- 60-1/16" W x 30-3/4" D x 34-1/16" H

#### EQ2311DT Teardown Benches

- Ideal for working on transmissions, small engines and hydraulic components
- Reinforced work surface will stand up to years of heavy use
- Top has a 3/4" high retaining lip on all sides tapering to the rear center to a 1/2" threaded and plumbed drain
- Optional caster kit consists of (4) swivel 7-1/2" H casters
- 1/2" threaded drain nipple allows for connection of hose for fluid capture

#### EQG2223K5 Open Leg Workbench

- Constructed from heavy 12 ga. steel with die formed legs welded into a one piece unit for superior strength
- Includes a storage drawer for mounting on an end or at the center of the bench
- 5' W x 29" D x 33-1/2" H

#### EQG245U5 Pedestal Workbench

- Manufactured with a heavy 12-gauge top surface and an integral back flange
- Four drawer pedestal is designed with roller drawer rails for smooth, non-binding operation
- 5' W x 27-1/2" D x 34-1/8" H

#### BPWKBNCHX Heavy-Duty Workbench (Blue-Point®)

- Heavy-duty 2,000 lb capacity (bench top 1,300 lb; lower shelf 700 lb)
- Adjustable legs with four work surface height options—adjust to 30, 33, 36" (shipping height) or 40"
- Optional storage drawers are sold separately
- Snap-on® Slots-N-Dots™ on the side panels
- Side and back panels can be installed flush or 1-1/4" above the work surface
- Features 6 x 2" swivel-lock casters
- Overall size: 74" W x 32" D x 40" H
- Net weight: 251 lb

#### BPWKBNCHX-1 Shallow Wide Drawer (Blue-Point®)

- Optional accessory for the BPWKBNCHX Heavy-Duty Workbench (Blue-Point®)
- Overall size: 20.5" W x 27.4" D x 4.3" H
- Net weight: 14.5 lb (including slides)

#### BPWKBNCHX-2 Deep Narrow Drawer (Blue-Point®)

- Optional accessory for the BPWKBNCHX Heavy-Duty Workbench (Blue-Point®)
- Overall size: 14.6" W x 27.4" D x 9.1" H
- Net weight: 16.7 lb (including slides)

### 3-Ton Arbor Press

#### CG100 3-Ton Arbor Press

- Frame is 2" steel channel—bolts to workbench
- Gearing multiplies handle pressure up to 3-ton force
- Set includes arbor press frame, utility punch, work block and adaptor to convert 1/2" drive to 5/16" round drive
- Optional accessories: The adaptors from A57Q bushing driver set can be used with CG100-16 5/16" round drive adaptor—the CJ951 bearing separator fits neatly between the work support brackets

#### CG100-14 Utility Punch

**10-Ton Bench Press**

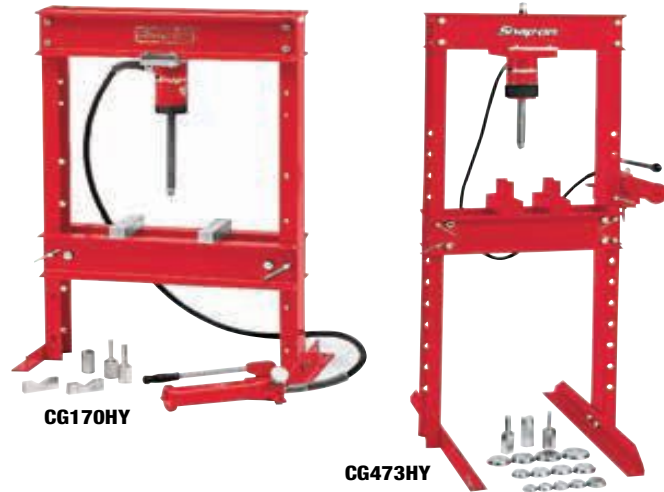
**CG170HY Press, Bench, Hydraulic, 10-Ton, 1-Stage Pump**

- Includes frame, ram, pump and work block

**20-Ton Floor Presses**

**CG473HY 20-Ton 1-Stage Hydraulic Floor Press**

- Includes table lifting mechanism, frame, ram, pump and work blocks



**Step Plates**

Use step plates for the pressing of bearings, bushings and general pressing applications.

| Stock No. | Diameter, inches |
|-----------|------------------|
| CG173-2   | 3/4 and 1-1/8    |
| CG173-4   | 1 and 1-3/8      |
| CG173-5   | 1-1/8 and 1-1/2  |
| CG471-5   | 1-1/4 and 1-5/8  |
| CG471-13  | 2-1/4 and 2-3/4  |
| CG471-15  | 2-1/2 and 3      |
| CG471-16  | 2-3/4 and 3-1/4  |



**Floor/Bench Press Specifications and Accessories**

**CG170-14 \* V-Block**

- Use with CG170HY 10 ton hydraulic bench press

**CG471-2 \* V-Block**

- Use with CG570, 770, 473 and 470 Series hydraulic bench presses

**CG471-1 Pressure Screw**

**(CGCG473/CG470 Series Presses) V-Adaptor**



**AIR PROCESSING EQUIPMENT**

**Regulators, Filters and Valves**

| Stock No. | Inlet/Outlet Port Size | Adjustable Pressure Range                   | Maximum Service Pressure               | Oil Capacity | Operating Temperature Range |
|-----------|------------------------|---|--|--------------|-----------------------------|
| AHRB200   | 1/2" NPT (F)           | 5–120 psig<br>(.5–8.5 kgf/cm <sup>2</sup> ) | 140 psig<br>(9.0 kgf/cm <sup>2</sup> ) | 80 mL        | 41–140 °F (5–60 °C)         |



**AHRB200**



- Keep away from children
- Read safety precautions on pages W1 to W4



AHR423



AHR424



AHR426



AHR428



AHR430



AHR438

### Quickclamp® Regulators, Filters, and Valves

- System utilizes modular design of filters, regulators, lubricators and accessories
- Allows installation and removal of the AHR services units and accessories without breaking a pipe connection
- Clamping device holds AHR product components in rigid combinations

#### AHR423 Automatic Drain Valve (Blue-Point®)

- When fluid reaches full level it activates the float and drains unwanted oil and water automatically
- Can be used in place of a manual drain on the following units: AHR424 and AHR430

#### AHR424 General Purpose Filter

- Excellent water removal characteristics
- Standard depth type 40 mm filter element
- Particle removal per ISO 8573-1, Class 5 and Class 3

#### AHR426 General Purpose Pressure Regulator

- Features full-flow gauge ports and standard relieving regulators
- Low-torque, non-rising pressure adjustment knob has integral locking device
- Balanced valve minimizes effect of variation in inlet pressure on the outlet pressure

#### AHR428 Oil Filter Lubricator

- Features a quick-release bayonet bowl, a high visibility prismatic lens and a liquid level indicator
- Lubricates a single tool, cylinder or other air-powered device

#### AHR430 General Purpose Filter/Regulator

- Low-torque, non-rising pressure adjustment knob has integral locking device
- Standard depth type 40 mm filter element
- Particle removal per ISO 8573-1, Class 5 and Class 3

#### AHR438 Wall Mount Bracket

- Made of heavy-duty metal
- Can be used on the following units: AHR424, AHR426, AHR428 and AHR430





**BRA7380VEM**



**BRA8380V**



**BRARS8380H**



**BRA10312H**



**BRA15312H**



**BRA20312H**

## Snap-on® Air Compressors (3-Phase)

| Stock No.     | Horsepower, HP | Pump Stages  | Tank, gal | Tank Style | Electrical Requirements | Amp Requirements | Mag Starter | Hour Meter | Auto Tank Drain | Air Delivery SCFM @ PSI | Max. PSI |
|---------------|----------------|--------------|-----------|------------|-------------------------|------------------|-------------|------------|-----------------|-------------------------|----------|
| BRA7380VEM*†  | 7              | Dual         | 80        | Vertical   | 208/230 V, 3-phase      | 30 @ 208/230 V   | Yes         | No         | No              | 23.5 @ 175              | 175      |
| BRA8380V*†‡   | 8              | Dual         | 80        | Vertical   | 208/230 V, 3-phase      | 30 @ 208/230 V   | Yes         | Yes        | Yes             | 27.0 @ 175              | 175      |
| BRARS8380H*‡  | 8              | Rotary Screw | 73        | Horizontal | 208/230 V, 3-phase      | 30 @ 208/230 V   | Yes         | Yes        | No              | 35.0 @ 125              | 144      |
| BRA10312H*‡   | 10             | Dual         | 120       | Horizontal | 208/230 V, 3-phase      | 40 @ 208/230 V   | Yes         | No         | Yes             | 36.0 @ 175              | 175      |
| BRA15312H*‡   | 15             | Dual         | 120       | Horizontal | 208/230 V, 3-phase      | 75 @ 208/230 V   | Yes         | No         | Yes             | 48.0 @ 175              | 175      |
| BRA20312H‡    | 20             | Dual         | 120       | Horizontal | 208/230 V, 3-phase      | 100 @ 208/230 V  | Yes         | No         | Yes             | 75.0 @ 175              | 175      |
| BRARS10380H‡  | 10             | Rotary Screw | 80        | Horizontal | 208/230 V, 3-phase      | 30 @ 208/230 V   | Yes         | Yes        | No              | 38.0 @ 125              | 145      |
| BRARS153130H‡ | 15             | Rotary Screw | 130       | Horizontal | 208/230 V, 3-phase      | 40 @ 208/230 V   | Yes         | Yes        | No              | 55.0 @ 125              | 145      |
| BRARS203130H‡ | 20             | Rotary Screw | 130       | Horizontal | 208/230 V, 3-phase      | 60 @ 208/230 V   | Yes         | Yes        | No              | 72.0 @ 125              | 145      |

\*440/460/480V wiring available

†BRA7380V, BRA7380VEM and BRA8380V are available with horizontal tanks via special order



- Use pressure regulator, lubricator and moisture filler on air line
- Follow maintenance requirements
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# AIR COMPRESSORS



## Snap-on® Air Compressors (Single Phase)

| Stock No.    | Horsepower, HP | Pump Stages  | Tank, gal | Tank Style | Electrical Requirements       | Amp Requirements          | Mag Starter | Hour Meter | Auto Tank Drain | Air Delivery SCFM @ PSI | Max. PSI |
|--------------|----------------|--------------|-----------|------------|-------------------------------|---------------------------|-------------|------------|-----------------|-------------------------|----------|
| BRA5DV30VP‡  | 3 (peak)       | Single       | 27        | Portable   | 120/220 V, 1-phase            | 20 @ 120 V,<br>15 @ 220 V | Not Req.    | No         | No              | 7.0 @ 125               | 125      |
| BRAC560V‡    | 5              | Single       | 60        | Vertical   | 208/230 V, 1-phase            | 20 @ 208/230 V            | Not Req.    | No         | No              | 13.5 @ 140              | 140      |
| BRA5140H‡    | 5              | Dual         | 40        | Horizontal | 208/230 V, 1-phase            | 30 @ 208/230 V            | Not Req.    | No         | No              | 16.0 @ 175              | 175      |
| BRA517V‡     | 5              | Dual         | 70        | Vertical   | 208/230 V, 1-phase            | 40 @ 208/230 V            | Yes         | No         | No              | 17.5 @ 175              | 175      |
| BRA7180VEM*‡ | 7              | Dual         | 80        | Vertical   | 208/230 V, 1-phase            | 40 @ 208/230 V            | Yes         | No         | No              | 23.5 @ 175              | 175      |
| BRA8180V*‡   | 8              | Dual         | 80        | Vertical   | 208/230 V, 1-phase            | 40 @ 208/230 V            | Yes         | Yes        | Yes             | 27.0 @ 175              | 175      |
| BRA9G3B‡     | 9              | Dual         | 30        | Horizontal | Gas Engine,<br>Electric Start | N/A                       | N/A         | No         | No              | 23.0 @ 175              | 175      |
| BRARS8180H‡  | 8              | Rotary Screw | 73        | Horizontal | 208/230 V, 1-phase            | 40 @ 208/230 V            | Yes         | Yes        | No              | 35.0 @ 125              | 144      |
| BRAP7SOS‡    | 7              | Dual         | N/A       | N/A        | 208/230 V, 1-phase            | 40 @ 208/230 V            | Yes         | Yes        | N/A             | 23.5 @ 175              | 175      |

\*BRA7180V, BRA7180VEM and BRA8180V are available with horizontal tanks via special order

# SHOP CLEANING

WHEN IT COMES TO CLEANING, SNAP-ON® OFFERS A VARIETY OF TOOLS AND EQUIPMENT TO GET THE JOB DONE EFFICIENTLY. WHETHER IT'S ANYTHING FROM PRESSURE WASHING AN ENGINE TO HOSING DOWN THE DRIVEWAY, WE HAVE YOU COVERED.

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## LET'S KEEP IT CLEAN, PEOPLE.

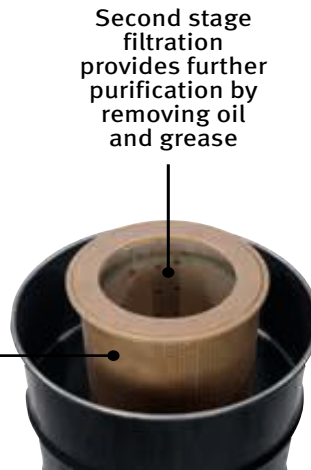
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We offer a broad range of cleaning solutions and solvent-based or aqueous parts washers to keep your tools and shop looking spick-and-span. Our parts washers can also save you time and money by minimizing service fees for disposal of used solvents.

## PARTS WASHERS: SOLVENT BASED



PBD3222A



Second stage filtration provides further purification by removing oil and grease

First stage filtration removes heavy solids

Dual stage filter

### Electric/Square Base

#### Automatic Filtration Parts Washer

- Snap-on® dual filter parts washers provide a clean supply of solvent for washing parts
- Filtration system virtually eliminates solvent changes
- Composite dual stage filter provides continuous filtration of solvent
- First stage filtration removes heavy solids
- Second stage filtration provides further purification by removing oil and grease
- Constructed of 16-gauge steel and features an added lip for strength
- Complete with work lamp and flexible spout



PBC4828



PBD2622A



PBC16



PBD34A

| Specifications                    | PBD3222A           | PBC3222A           | PBC4828            | PBD2622A           | PBC16             | PBD34A*            |
|-----------------------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|
| Filtration                        | Dual               | Dual               | Dual               | Dual               | —                 | —                  |
| Base                              | Drum               | Square             | Square             | Drum               | —                 | Drum               |
| Inside Dimensions, inches         | 32 W x 22 D x 10 H | 32 W x 22 D x 10 H | 48 W x 28 D x 14 H | 26 W x 17 D x 7 H  | 15 W x 16 D x 6 H | 28 W x 22 D x 7 H  |
| Fluid Requirements (gal)          | 20                 | 20                 | 20                 | 10                 | 5                 | 10                 |
| Input, VAC (Hz)                   | 120 (60)           | 120 (60)           | 120 (60)           | 120 (60)           | 120 (60)          | 120 (60)           |
| Pump Volume, gallons/hour         | 325                | 325                | 325                | 210                | 210               | 210                |
| Output Pressure, PSI              | 50                 | 50                 | 50                 | 50                 | 50                | 50                 |
| Overall Dimensions, inches        | 36 W x 26 D x 39 H | 36 W x 26 D x 39 H | 52 W x 32 D x 45 H | 30 W x 21 D x 34 H | 1 W x 23 D x 10 H | 31 W x 23 D x 35 H |
| Open Height, inches               | 63                 | 63                 | 75                 | 53                 | 23                | 60                 |
| Replacement Filter                | PBD3209            | PBD3209            | PBD3209            | PBD3202            | —                 | —                  |
| European Models (230 V AC, 50 Hz) | PBDH3222AEUR       | PBCH3222AEUR       | PBCH4828EUR        | PBDH2622AEUR       | —                 | —                  |
| PBD1751 Parts Tray                | Included           | Included           | Included           | —                  | PBCH16-EUR        | Optional           |
| PBA720A Drain Table               | Optional           | Optional           | Optional           | —                  | —                 | Optional           |

\*(Blue-Point®)

TECHNICAL SUPPORT: 1-800-253-3661



PBC3022



PBC33B



PBC42B

## Electric/Medium-Duty

| Specifications             | PBC3022            | PBC33B                 | PBC42B                |
|----------------------------|--------------------|------------------------|-----------------------|
| Depth, inches (mm)         | 22 (559)           | 28 (711)               | 24 (610)              |
| Reservoir Capacity, gal    | 6                  | 20                     | 12                    |
| Electrical Requirements    | 115 V AC, 20 A     | 120 V AC, 60 Hz        | 230 V AC, 60 Hz       |
| Pump Motor, HP             | —                  | —                      | 3/4                   |
| Output Pressure, PSI       | 50                 | 50                     | 500                   |
| Volume, gallons per hour   | 325                | 325                    | 180                   |
| Heater, watts              | 1,500              | 1,500                  | 1,500                 |
| Open Height, inches        | 32                 | 65                     | 69                    |
| Inside Dimensions, inches  | 17 W x 12 D x 14 H | 21 W x 31-1/2 D x 10 H | 40 W x 24 D x 16-24 H |
| Overall Dimensions, inches | 30 W x 22 D x 32 H | 37 W x 28 D x 42 H     | 44 W x 24 D x 65 H    |

European Models: PBCH33B-EUR† (230 V AC, 50 Hz), PBCH42B-EUR† (230 V AC, 50 Hz), PBCH57AEUR† (230 V AC, 50 Hz)

† C E

### PBC3022 Heated Aqueous Parts Washer

- Compact design is portable and can be moved to the job site easily
- Sealed lid prevents splashing when used on mobile service vehicles
- Heavy plastic body and lid are produced with high-density polyethylene
- Stainless steel mesh work surface for durability and strength
- Heating element increases cleaning effectiveness and is thermostatically controlled
- Features a 5-micron filter to separate out dirt and debris

### PBC33B Heated Aqueous Parts Washer

- Clean parts with a flexible pressurized cleaning spout
- Solution is heated for additional cleaning effectiveness
- Easily accessible polysateen drain filter to remove solids
- Heavy-wall polyethylene tub and solid base is durable for heavier parts
- Integral oil skimmer removes oil and grease from the cleaning solution to maximize cleaning effectiveness
- Clean parts with less effort—the solution works effectively by relieving surface tension of the grime
- Cleaning solution lasts longer, which minimizes solution changes by not absorbing oil and dirt
- Cleaning solution carries a licensed Green Seal® Certification Mark and is certified by the South Coast Air Quality Management Distribution
- Carries the highest environmental certifications, which lessens the environmental impact taking care of our land, water and air resources
- Low solution warning indicator
- Includes (5) gallons of PBA733 Cleaning Solution and (1) gallon of PBA734 Cleaning Concentrate Booster

### PBC42B High-Pressure Parts Washer

- Fully enclosed aqueous parts washer
- Blast parts clean with a 500 PSI high-pressure wand
- Soap solution is heated for additional effectiveness
- Automatic soak cycle loosens grime



- Do not direct air or fluid stream at body
- Do not expose solvent to flames, sparks or other source of ignition
- Use in well ventilated area

- Do not use washer without fusible link or safety valve intact
- Read safety precautions on pages W1 to W4

## PARTS WASHERS: AQUEOUS BASED



PBC57A



PBC58



PBC55-1



PBC55-3

### Electric/Heavy-Duty

- High-pressure aqueous parts washer effectively cleans engine blocks, cylinder heads, transmission cases and small parts
- Cycle time can be adjusted from 0–60 minutes
- Five RPM turntable is driven by a #40 chain for rotation without slippage; extends 18" for easy part loading
- Sprocket drive and turntable motor have dual sealed bearing shafts for longevity and strength
- Includes a 25 lb pail of YADW896B Biodegradable Soap Concentrate
- Also includes an integral oil skimmer and pump reservoir filter to remove oil and grease, helping maintain cleaning effectiveness
- Double intake filtration system has a perforated steel screen filter with a sludge trap
- Rugged 12-gauge steel construction with solid welded seams

| Specifications             | PBC57A             | PBC58                 |
|----------------------------|--------------------|-----------------------|
| Depth, inches (mm)         | 35 (889)           | 35 (889)              |
| Reservoir Capacity, gal    | 60                 | 60                    |
| Electrical Requirements    | 230 V AC, 60 Hz    | 230 V AC, 60 Hz, 60 A |
| Pump Motor, HP             | 2                  | 3                     |
| Output Pressure, PSI       | 45                 | 45                    |
| Volume, gallons per hour   | 2,700              | 2,880                 |
| Heater, watts              | 9,000              | 9,000                 |
| Open Height, inches        | 69                 | —                     |
| Inside Dimensions, inches  | 35 W x 35 D x 41 H | 36 W x 35 D x 54 H    |
| Overall Dimensions, inches | 53 W x 43 D x 69 H | 53 W x 43 D x 81 H    |

European Model: PBCH57AEUR† (230 V AC, 50 Hz)

† C E

### PBC57A High-Pressure Automatic Parts Washer

- Automatically cleans parts with a 45 PSI heated soap solution spraying from 20 high-pressure nozzles at 40 GPM

### PBC58 High-Pressure Heavy-Duty Automatic Parts Washer

- Automatically cleans parts with a 45 PSI heated soap solution spraying from 24 high-pressure nozzles at 42 GPM

### PBC55-1 Parts Basket

- Perforated steel basket is perfect for holding small parts

### PBC55-3 Parts Tree

- Welded steel tube rack for hanging smaller parts

### PBC58-3 Parts Tree

- 45" tall rack for hanging smaller parts



PBD16

### Air Agitated Immersion Cleaner

#### PBD16 Air Agitated Immersion Cleaner

- Use with parts degreaser or carburetor cleaner
- Heavy-duty air motor rotates the basket in both directions
- Cover has a locking band that seals the unit
- 4-1/2" deep basket has a hook for draining parts from top of pail and holes for holding extra-small parts
- Overall height of 32"
- Base diameter of 14-1/2"
- Requires 5 CFM @ 100 PSI

**Parts Cleaning Brushes/Solvent Based****YA452 Parts Cleaning Brush (Blue-Point®)**

- Stiff bristles with contoured, non-slip plastic handle
- Attaches to most parts washers
- Flared hose end fits 1/4" spouts; 24" long hose has an internal spring to prevent kinking

**GA501A Parts Cleaning Brush (Blue-Point®)**

- Stiff bristles with contoured, non-slip plastic handle
- 11-1/4" long

**GA503 Round Angled Parts Cleaning Brush (Blue-Point®)**

- Angled round brush design
- Attaches to most parts washers



YA452



GA501A



GA503

**Cleaning Solutions for Aqueous-Based Parts Washers****YADW896B Powdered Soap Cleaner**

- Low-foaming powdered soap solution
- For use in PBC57A and PBC42B Parts Washers
- Comes in a 25 lb container; makes 60–120 gallons of solution

**PBA734 Cleaning Solution Additive**

- Used in both PBC3022 and PBC33B for an added boost of cleaning power

**PBA733 Certified Green Concentrate Solution**

- Specially formulated solution does not absorb oil and dirt
- For use in PBC33A and B Parts Washers
- Comes in a 5-gallon container; makes 20 gallons of solution

**PBA735 Certified Green Concentrate Solution**

- Same as PBA733 except 1-gallon container



YADW896B



PBA760

**Petroleum-Based Solvent Cleaners****PBA760 Solvent Cleaner**

- Excellent for removing oil and grease
- Petroleum-based cleaner with 140 flash point
- For solvent-based parts washers only
- Comes in a 5-gallon container

**Solvent-Based Parts Washer Accessories****PBA725 Parts Basket**

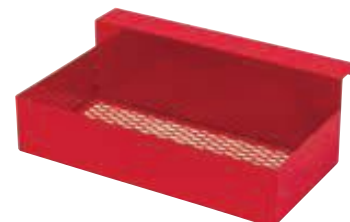
- Hangs inside solvent based parts washers

**PBA720A Drain Table**

- Attaches to the outside of a parts washer
- Measures 25-1/2" W x 18-1/2" D

**PBD1751 Parts Tray**

- Attaches to outside of parts washer
- Measures 12-1/2" W x 18-1/2" D



PBA725

**PARTS CLEANING****Hose Reels****YA730D Heavy-Duty Air/Water Hose Reel**

- 50' of 3/8" I.D. low-pressure rubber hose
- Adjustable ball stop
- 24" connecting hose
- High carbon steel retraction spring
- Guide arm adjusts to four positions



YA730D



- Do not direct air or fluid stream at body
- Do not expose solvent to flames, sparks or other source of ignition
- Use in well ventilated area

- Do not use washer without fusible link or safety valve intact
- Read safety precautions on pages W1 to W4

## PARTS CLEANING



YA571



GA299



NOZZLEGRP



NOZZLEPG2A



NOZZLESPRY2



YA297

## Water Nozzles and Hoses

Premium Water Nozzles Perfect for Any Job!

- Ergonomic handle allows for easy grip and less fatigue
- Precision flow port allows water to flow directly and not “up” and through the handle, this allows for increased water flow, pressure and power by approximately 30%
- Machined aircraft aluminum barrel with stainless steel construction
- Santoprene™ rubber handle and head for superior durability
- Works with any standard 5/8” or larger water hose
- Multiple spray patterns

**YA571 Water Spray Nozzle**

- Sprays hot or cold water
- Clip locks spray at desired setting
- Nose bumper prevents scratches to auto paint
- Fits standard garden hose threads

**GA299 Air Solvent Gun (Blue-Point®)**

- Used for degreasing or applying oils
- Quickly converts to long-wanded air gun
- Operates on 35–175 PSI
- 8’ hose for siphoning chemicals into gun
- For hoses with 1/4” NPT male fitting
- Shaft length of 10-1/2”; overall length of 16-1/2”

**NOZZLEGRP\* Snap Grip Hose Nozzle with Shutoff**

- Handle grip can be placed into a pistol or inline position
- Lock button keeps handle in position until released
- Adjustable spray nozzle transitions from delicate fan to powerful jet
- On/off lever allows for quick water supply shut-off without changing spray pattern
- Precision machined inlet port provides an uninterrupted direct flow path of water
- Made of machined aircraft aluminum, stainless steel, Santoprene® rubber and durable plastic housing
- Recommended supply hose 5/8” I.D. for best performance

**NOZZLEPG2A\*\* Aluminum Fireman’s Hose Nozzle (Black)**

- Improved head design: 25% larger
- Provides greater scratch resistance to metal surfaces
- Makes changing spray patterns easier by rotating the nozzle head
- Allows for greater impact protection to the nozzle
- Fireman’s-style nozzle with on/off lever
- All aluminum housing and construction
- Santoprene® rubber prevents scratches
- Multiple spray patterns: jet, fan, power flow and low flow
- Perfect for any job, including shop, garage and home
- Comfort-grip handle helps prevent fatigue

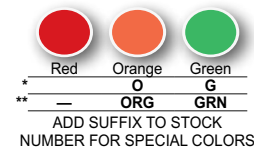
**NOZZLESPRY2\* Long Handle Hose Nozzle**

- On/off lever allows the user to keep the same spray pattern and not have to turn the head to shut off the water
- Black anodized barrel with etched Snap-on® logo
- Improved head design offers even more protection from accidental scratches
- “Low-flow” design has been incorporated to help the water flow and increase the water pressure

**YA297 Water Saving Hose Nozzle (Blue-Point®)**

- Provides concentrated pressure stream
- Features a special rocker-actuated check valve
- Fits standard garden hose threads
- 9” long

## Colors Available

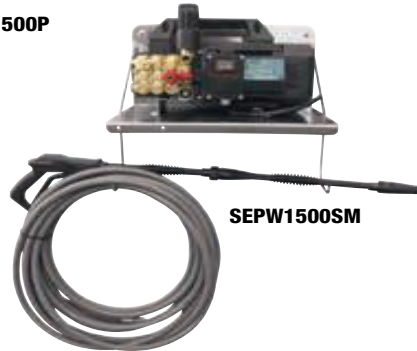




## PRESSURE WASHERS: COLD WATER



SEPW1500P



SEPW1500SM



SEPW1000



SEPW1500USA

### Electric Power (Cold Water)

Adjustable 0–60° spray nozzle and GFCI protection with 35' power cord.

| Specifications         | SEPW1500P               | SEPW1500SM              | SEPW1000                | SEPW1500USA       |
|------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| Style                  | Hand Carry              | Wall Mounted            | Cart Mounted            | Cart Mounted      |
| PSI (bar)              | 1,450 (100)             | 1,450 (100)             | 1,000 (69)              | 1,500 (103.5)     |
| GPM (L/min)            | 2 (7.6)                 | 2 (7.6)                 | 2 (7.6)                 | 2 (7.6)           |
| Horsepower, HP         | 2                       | 2                       | 1.5                     | 2                 |
| Voltage                | 120 V/20 A/single phase | 120 V/20 A/single phase | 120 V/15 A/single phase | 120 V/17 A        |
| Chemical Tank Capacity | —                       | —                       | 1 gal                   | —                 |
| Pump Max. Temperature  | 140 °F                  | 180 °F                  | 140 °F                  | 140 °F            |
| Thermal                | Mechanical              | Mechanical              | Mechanical              | Mechanical        |
| Hose Length, feet      | 26                      | 25                      | 25                      | 25                |
| Dimensions (L x W x H) | 18 x 12 x 11"           | 20 x 12 x 20"           | 21 x 16 x 36"           | 30 x 21-1/2 x 36" |
| Shipping Weight, lb    | 68                      | 98                      | 65                      | 150               |

## PRESSURE WASHERS

### Gas Engine (Cold Water)

Interchangeable or adjustable 0–40° spray nozzle, plus powder-coated tube frame cart with pneumatic tires.

| Specifications         | SEPW1600G         | SEPW2700G         |
|------------------------|-------------------|-------------------|
| Style                  | Cart Mounted      | Cart Mounted      |
| PSI (bar)              | 1,600 (110.4)     | 2,700 (183.3)     |
| GPM (L/min)            | 3 (11.4)          | 3 (11.4)          |
| Engine                 | 160 cc            | 196 cc            |
| Fuel Tank Capacity     | 1.9 qt            | 3.9 qt            |
| Chemical Tank Capacity | 3 gal             | 3 gal             |
| Thermal                | 165 °F            | 165 °F            |
| Hose Length            | 50                | —                 |
| Dimensions (L x W x H) | 30 x 21-1/2 x 36" | 30 x 21-1/2 x 36" |
| Shipping Weight, lb    | 87                | 108               |



SEPW1600G



SEPW2700G



- Do not direct air or fluid stream at body
- Read safety precautions on pages W1 to W4

## OIL-FIRED HOT WATER



SEPW30SHDE



SEPW2725SHDE

Heats water to 200 °F. Includes ceramic plunger pump with stainless steel valves, trigger gun, interchangeable nozzles, chemical injection, adjustable pressure, stainless steel cold wrap-around coil, poly fuel tanks and GFCI protection. Powder-coated tube-frame cart with pneumatic tires for extra durability.

### Electric Power (Oil-Fired)

| Specifications            | SEPW14SHDE              | SEPW20SHDE              | SEPW30SHDE              | SEPW2725SHDE            |
|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| PSI (bar)                 | 1,450 (100)             | 2,000 (138)             | 3,000 (207)             | 2,700 (186)             |
| GPM (L/min)               | 2 (7.6)                 | 4 (15.2)                | 4 (15.2)                | —                       |
| Horsepower, HP            | 2                       | 5                       | 7.5                     | 5                       |
| Voltage                   | 120 V/20 A/single phase | 230 V/25 A/single phase | 230 V/34 A/single phase | 230 V/25 A/single phase |
| Burner Fuel Capacity, gal | 5                       | 5                       | 5                       | —                       |
| Dimensions (L x W x H)    | 34 x 27 x 47"           | 34 x 27 x 47"           | 34 x 27 x 47"           | 34 x 27 x 47"           |
| Shipping Weight, lb       | 350                     | 570                     | 600                     | 430                     |
| Hose Length, feet         | 50                      | 50                      | 50                      | 50                      |



SEPW3000QH

### Gas Engine (Oil-Fired)

| Specifications            | SEPW3000QH    |
|---------------------------|---------------|
| PSI (bar)                 | 3,000 (207)   |
| GPM (L/min)               | 4 (15.2)      |
| Engine Displacement, cc   | 389           |
| Fuel Tank Capacity, qt    | 6.9           |
| Burner Fuel Capacity, gal | 5             |
| Dimensions (L x W x H)    | 54 x 32 x 49" |
| Shipping Weight, lb       | 600           |
| Hose Length, feet         | 50            |

## VACUUMS/SHOP FANS: VACUUMS



AV1000A

### AV1000A Deluxe Air Vacuum Kit (Blue-Point®)

- Ideal for vehicle media body shops or any applications that require picking up dust, metal shavings or broken glass
- Includes 8.7" aluminum extension tube, pointed nozzle, flexible tube and crevice tool with brush
- Large collection bag includes a debris baffle and sliding bag clamp for emptying debris
- Lightweight ergonomic handle design

## Wet/Dry Vacuums

Industrial strength full wet/dry cleaning and drying machines combine the highest degree of suction/airflow with ruggedly durable motors. Highest quality materials ensure long life. Ball bearing motor is designed for a strong performance with less motor strain. Engineered for easy portability and long life.



| Specifications         | BLPVAC5*   | SOVAC16  | YA1009SSA‡   | YA1023A‡   | YA1105A‡   |
|------------------------|--|--|--|--|--|
| <b>Tank</b>            | 5 gal Polypropylene  | 16 gal Polypropylene   | Corrosion-Resistant  | 23 gal Polypropylene   | Corrosion-Resistant  |
| <b>Casters</b>         | 4 Metal Casters  | Large Rear/Swivel Front  | Large Rear/Swivel Front  | Large Rear/Swivel Front  | 4 Swivel   |
| <b>Water Lift</b>      | 65"  | —  | 93"  | 93"  | 93"  |
| <b>Motor</b>           | 1-Stage  | 2-Stage  | 2-Stage  | 2-Stage  | 2-Stage  |
| <b>CFM</b>             | 49   | 125  | 99   | 99   | 99   |
| <b>Approvals</b>       | UL® and cUL  | UL® and cUL  | UL® and cUL  | UL® and cUL®   | UL® and cUL  |
| <b>Operation</b>       | Full Wet and Dry   | Full Wet and Dry   | Full Wet and Dry   | Full Wet and Dry   | Full Wet and Dry   |
| <b>Filter Assembly</b> | Washable Cartridge Filter  | Foam and Cartridge Filter  | YAT90445   | YAT90448   | YAT24519   |
| <b>Includes</b>        | 7' Hose (1-1/4" dia.), (3) Extension Wands, Washable Cartridge Filter, Reusable Foam Sleeve, 10" Floor Squeegee Nozzle with Brush and Crevice Tool | 10' Hose (1-1/2" dia.), Foam Filter, Cartridge Filter, Dust Collection Bag, Crevice Tool, Utility Nozzle, Car Nozzle and Round Brush | 1-1/2" Wet/Dry Tool Set (Hose with Swivel End, Crevice Tool, Upholstery Tool, (2) Straight Extensions, Floor Tool Housing with Carpet Face, Brush Face, Squeegee Face) | 1.5" Wet/Dry Tool Set (Hose with Swivel End, Crevice Tool, Upholstery Tool, (2) Straight Extensions, Floor Tool Housing with Carpet Face, Squeegee Face) | 1.5" Wet/Dry Tool Set (Hose with Swivel End, Crevice Tool, Upholstery Tool, (2) Straight Extensions, Floor Tool Housing with Carpet Face, Squeegee Face) |

\*(Blue-Point®)

## VACUUMS/SHOP FANS

### Portable Spotters

#### YA1102 Portable Spotter

- Use on carpeting, seat fabrics and other cleaning needs
- Durable molded tank
- Large 2-gallon capacity
- Powerful 55 PSI solution pump motor
- Strong recovery with 94 CFM vacuum rating
- Quick disconnect solution hose at the body
- Includes hose and hand tool
- UL® and CSA® listed
- ETL and cETL listed
- 84" water lift
- Bypass 1.2 HP motor



YA1102



- Do not direct air or fluid stream at body
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## SHOP FANS



WIND100A

## Shop Fans

**WIND100A Heavy-Duty Air Mover**

- Meets OSHA standards for size and weight
- Maximum 3,758 FPM of air movement
- Adjustable kickstand with three operating positions
- Three-speed switch for controlled drying
- Space saver stackable design takes up less room in storage
- Easy to transport with optional telescoping handle for portability

| Specifications               | WIND100A                |
|------------------------------|-------------------------|
| Power                        | 120 V AC/60 Hz          |
| Speeds                       | 3 speeds / 1 off        |
| Air Delivery (Velocity)      | 2,100; 3,000; 3,200 FPM |
| Air Flow Direction           | 0°/12°/90°              |
| High-Output Fan Size, inches | 10-1/2 x 8-1/2          |
| Motor                        | .6 HP                   |
| Motor Rating                 | Continuous-Duty         |
| Power Cord Length, feet      | 18-1/2                  |
| Size (L x W x D), inches     | 17.2 x 15.3 x 18-1/2    |



WIND200

**WIND200 ‡ 1,200 CFM Blower Fan (Blue-Point®)**

- 120 V, 60 Hz
- 2.0 A rated power
- Moves air up to 1,200 CFM
- Variable-speed switch controls motor speed: 950–1,650 RPM
- Built-in overload protection
- 2 pc 11 A built-in grounded receptacles
- Impact-resistant ABS housing materials
- 8-1/2' cord length
- Four-position adjustment feet
- 15.9 lb



WIND300

**WIND300 ‡ 300 CFM Blower Fan (Blue-Point®)**

- 120 V, 60 Hz
- 1.0 A rated power
- Moves air up to 300 CFM
- Variable-speed switch controls motor speed: 950–1,650 RPM
- Built-in overload protection
- 2 pc 11 A built-in grounded receptacles
- Impact-resistant ABS housing materials
- 8-1/2' cord length
- Four-position adjustment feet
- 11.5 lb



WINDHEATER

**WINDHEATER ‡ Weather Attachment for WIND300 (Blue-Point®)**

- 1,320 W, 120 V
- 11 A, 500 BTU
- Converts blower into a heater
- Clips securely onto the front of the blower and plugs into one of the outlets on the side of the blower
- 14 AWG SJT cord with a grounded plug



KAFAN

## Workcenter Accessories

- Accessories are designed to fit all slotted systems found on workcenters and on accessory side panels for roll cabs and carts

**LED Clock, Two-Speed Fan**

- Real-time and temperature LED display (Celsius and Fahrenheit)
- Low-voltage fan can plug directly into an outlet or USB port
- Two-speed: low/high
- Compact design with oscillation and adjustable angle
- Magnetic base (10 lb) allows the fan to stand vertically or horizontally

**KAFAN LED Clock, Two-Speed Fan****KAFANPBO LED Clock, Two-Speed Fan****KAFANPJJ LED Clock, Two-Speed Fan****KAFANPJK LED Clock, Two-Speed Fan****WARNING**

- Read safety precautions on pages W1 to W4
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.

# SAFETY

KEEPING YOUR STAFF AND YOUR CUSTOMERS SAFE IS THE KEY TO PROTECTING YOUR BUSINESS. SNAP-ON® OFFERS A RANGE OF PRODUCTS TO HELP YOU DO IT.

## PROTECTING YOURSELF. PROTECTING YOUR CAREER.

In addition to extending your capabilities, we also have the tools to extend your career. From safety glasses and face protectors to a variety of gloves, we can help you protect your most important asset: yourself.

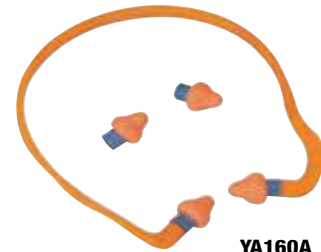
## EAR AND FACE PROTECTION



GA3000B



GA3200



YA160A

### Ear Protectors

| Specifications             | GA3000B   | GA3200    | YA160A  |
|----------------------------|-----------|-----------|---------|
| Noise Reduction Rating, dB | 25        | 28        | 21      |
| Headband                   | —         | Cushioned | Plastic |
| Ear Piece                  | Cushioned | Cushioned | Foam    |
| Adjustable Ear Piece       | Yes       | Yes       | Foam    |
| Ear Piece Replacements     | N/A       | N/A       | YA160A1 |
| Weight, lb                 | .49       | .77       | .06     |



EFPBONEHEDB



EFPDISORDER



EFPSKULLMIX



EFPHANNIBALB

### Extreme Face Protectors

| Specifications      | EFPBONEHEDB  | EFPDISORDER  | EFPSKULLMIX  | EFPHANNIBALB                                     |
|---------------------|--|--|--|--|
| Shield Style        | 180° Peripheral  | 180° Peripheral  | 180° Peripheral  | 180° Peripheral                                  |
| Headband            | Yes  | Yes  | Yes  | Yes  |
| Adjustable Headband | Yes  | Yes  | Yes  | Yes  |
| Impact Resistance   | Yes  | Yes  | Yes  | Yes  |
| Shield Included     | Clear and #10 Welding  | Clear and #10 Welding  | Clear and #10 Welding  | Clear and #10 Welding                            |
| Replacement Shields | EFPCLLENSREP (Clear); EFP3WLDLENS (#3 Welding); EFP5WLDLENS (#5 Welding); EFP8WLDLENS (#8 Welding); EFP10WLDLENS (#10 Welding); EFP12WLDLENS (#12 Welding) | EFPCLLENSREP (Clear); EFP3WLDLENS (#3 Welding); EFP5WLDLENS (#5 Welding); EFP8WLDLENS (#8 Welding); EFP10WLDLENS (#10 Welding); EFP12WLDLENS (#12 Welding) | EFPCLLENSREP (Clear); EFP3WLDLENS (#3 Welding); EFP5WLDLENS (#5 Welding); EFP8WLDLENS (#8 Welding); EFP10WLDLENS (#10 Welding); EFP12WLDLENS (#12 Welding) | EFPCLLENSREP (Clear); EFP10WLDLENS (#10 Welding) |



GA225

### Face Protectors

#### GA225 Face Shield (Blue-Point®)

- Adjustable, cushioned headband is removable
- Face shield provides impact resistance
- Includes GA225-1 Visor with PETG (impact resistance preferred)
- Measures approximately 7-3/4 x 15-1/4"
- Optional GA225-2 Visor with PC (high temperature resistance) is available

#### GA225-1 Replacement Visor with PETG (Blue-Point®)

- Replacement visor with PETG (impact resistance preferred) for GA225

#### GA225-2 Replacement Visor with PC (Blue-Point®)

- Replacement visor with PC (high temperature resistance) for GA225

### EEFI Series Adaptor Sets

EEFI50023 M12 x 1.5 Banjo Bolt – Audi®, Porsche®, Saab®



**GLASS1BK**



**GLASS1R**

**Safety Glasses/Glass 1 Series**

| Specifications                   | GLASS1BK                            | GLASS1R                             |
|----------------------------------|-------------------------------------|-------------------------------------|
| <b>Lens</b>                      | Clear                               | Clear                               |
| <b>Frame</b>                     | Black                               | Red                                 |
| <b>Anti-fog Lens Coating</b>     | Yes                                 | Yes                                 |
| <b>Anti-scratch Lens Coating</b> | Yes                                 | Yes                                 |
| <b>Temple Length Adjustment</b>  | Yes                                 | Yes                                 |
| <b>Tilt Adjustment</b>           | Yes                                 | Yes                                 |
| <b>Design</b>                    | Contemporary and Lightweight        | Contemporary and Lightweight        |
| <b>Meets Requirements</b>        | ANSI® Z87.1, CSA® Z94.3-1992, EN166 | ANSI® Z87.1, CSA® Z94.3-1992, EN166 |



**GLASS9BK**



**GLASS10BK**



**GLASS12BKA**

**Safety Glasses/Glass 9 and 10 Series**

| Specifications                   | GLASS9BK                        | GLASS10BK                       |
|----------------------------------|---------------------------------|---------------------------------|
| <b>Lens</b>                      | Clear                           | Brown                           |
| <b>Frame</b>                     | Black                           | Black                           |
| <b>Anti-fog Lens Coating</b>     | Yes                             | Yes                             |
| <b>Anti-scratch Lens Coating</b> | Yes                             | Yes                             |
| <b>Temple Adjustment</b>         | Yes                             | Yes                             |
| <b>Design</b>                    | Contemporary, Sporty Wraparound | Contemporary, Sporty Wraparound |
| <b>Meets Requirements</b>        | ANSI® Z87.1                     | ANSI® Z87.1                     |

ANSI® Z87.1, CSA® Z94.3 and MIL-STD-662.

**Safety Glasses/Glass 12 Series**

| Specifications            | GLASS12BKA                     |
|---------------------------|--------------------------------|
| <b>Lens</b>               | Clear                          |
| <b>Frame</b>              | Black Ear Pieces               |
| <b>Temple Adjustment</b>  | 5 Position                     |
| <b>Design</b>             | Frameless, Sleek, Contemporary |
| <b>Meets Requirements</b> | ANSI® Z87.1                    |



**GLASS20BKYA**



**GLASS20BKWA**



**GLASS20BLA**



**GLASS20BLM**

**Safety Glasses/Glass 20 Series**

| Specifications                    | GLASS20BKYA                    | GLASS20BKWA                    | GLASS20BLA                     | GLASS20BLM                     |
|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>Lens</b>                       | Amber                          | Dark Green (Shade #5)          | Clear                          | Mirror                         |
| <b>Frame</b>                      | Black                          | Black                          | Blue                           | Blue                           |
| <b>Lens Replacement Available</b> | GLASS20RLA                     | GLASS20LENSW                   | GLASS20RLC                     | N/A                            |
| <b>Additional Info</b>            | White Snap-on® Logo on Temples | White Snap-on® Logo on Temples | White Snap-on® Logo on Temples | White Snap-on® Logo on Temples |

ANSI® Z87.1, CSA® Z94.3 and MIL-STD-662



• Read safety precautions on pages W1 to W4

## EYE PROTECTION



GLASS30BK



GLASS30R



GLASS31BK



GLASS31R

### Safety Glasses/Glass 30 and 31 Series

| Specifications            | GLASS30BK | GLASS30R | GLASS31BK | GLASS31R |
|---------------------------|-----------|----------|-----------|----------|
| Lens                      | Clear     | Clear    | Clear     | Clear    |
| Frame                     | Black     | Black    | Black     | Red      |
| Anti-fog Lens Coating     | Yes       | Yes      | Yes       | Yes      |
| Anti-scratch Lens Coating | Yes       | Yes      | Yes       | Yes      |
| Ventilation Channel       | Yes       | Yes      | —         | —        |

ANSI® Z87.1



GLASS50BK



GLASS50R



GLASS60BK



GLASS60R



GLASS60SAP

### Safety Glasses/Glass 50 and 60 Series

| Specifications        | GLASS50BK | GLASS50R | GLASS60R | GLASS60BK | GLASS60SAP |
|-----------------------|-----------|----------|----------|-----------|------------|
| Lens                  | Clear     | Clear    | Clear    | Clear     | Clear      |
| Frame                 | Black     | Red      | Red      | Black     | Sapphire   |
| Anti-fog Lens Coating | Yes       | Yes      | Yes      | Yes       | Yes        |

ANSI® Z87.1 and CE EN166



GLASS1BOTG



GLASSVIS

### Protective Eyeshields

#### GLASS1BOTG Protective Eyeshields

- Single panoramic lens offers increased visibility
- Protective coating resists fogging, scratching, static and UV rays
- Frames adjust horizontally and vertically for comfort
- Side impact protection
- Universal nose bridge
- Snap-on® logo on the ear piece
- ANSI® Z87.1

#### GLASSVIS Protective Eyeshields

- Fit over prescription glasses or can be worn alone
- Wraparound side shields; impact-resistant with an anti-glare guard
- Clear uncoated lens with black frames
- ANSI® Z87.1, CSA® z94.3 and MIL-STD-662



**Safety Goggles**

**GOGGLE1 Protective Goggles**

- ANSI® Z87.1-1989

**GOGGLE2ATOR Safety Goggles**

- Durable molded frame with soft and flexible elastomer that seals for a custom-fit
- Quick-adjust headband clips permit fast and easy fitting
- Indirect ventilation system channels and directs air flow over the lens, minimizing fogging and improving vision potential while providing superior splash and impact protection
- Uvex® 4C+ lens coating to protect against fogging, scratches and UV rays
- ANSI® Z87.1



**GOGGLE1**



**GOGGLE2ATOR**

**GLOVES**

**Technician SuperCuff® Gloves**

**GLOVE500 ‡**

- Patented SuperCuff® design provides a super comfortable, snug and secure wrist closure will not restrict wrist and hand movement
- Heavy Lycra® panels between fingers provide greater comfort and fit
- Gloves are machine-washable—air dry only
- Reduced seam design for the index finger
- TPR stitching instead of sonic welding increases flexibility
- Silicone-printed Snap-on® logo on palm

**Colors and Sizes Available**

| Size   | Black | Red  |
|--------|-------|------|
| Medium | BMC   | RMC  |
| Large  | BLC   | RLC  |
| XL     | BXLC  | RXLC |
| XXL    | BXXC  | RXXC |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS AND SIZES



**GLOVE500RMC**

**Impact SuperCuff® Gloves**

**GLOVE501 ‡**

- SuperCuff® design provides a super comfortable, snug and secure fit without restricting wrist and hand movement
- New reduced seam design for the index finger
- New full-finger dorsal thermoplastic rubber (TPR) protection
- New two-layer fingertips for longer life
- Enhanced dexterity
- Silicone-printed Snap-on® logo on palm
- TPR stitching instead of sonic welding increases flexibility
- Textured reinforcements on palm side fingertips for better grip on dry surfaces
- New reflective fingertips for increased visibility

**Colors and Sizes Available**

| Size   | Black | Red  | Green |
|--------|-------|------|-------|
| Medium | BMC   | RMC  | GM    |
| Large  | BLC   | RLC  | GL    |
| XL     | BXLC  | RXLC | GXL   |
| XXL    | BXXC  | RXXC | GXX   |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS AND SIZES



**GLOVE501RLC**



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## GLOVES



GLOVE502RLB

## Colors and Sizes Available

| Size   | Black | Red  |
|--------|-------|------|
| Small  | BSA   | RSA  |
| Medium | BMB   | RMB  |
| Large  | BLB   | RLB  |
| XL     | BXLB  | RXLB |
| XXL    | BXXB  | RXXB |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS AND SIZES



GLOVE503CLA

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | CMA    |
| Large  | RLC    |
| XL     | RXLC   |
| XXL    | RXXC   |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE503HCXX



GLOVE506M

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## Heavy-Duty SuperCuff® Gloves

## GLOVE502 ‡

- Dual fingertip layers for protection and control
- Thermoplastic rubber (TPR) protection panels help eliminate cuts and scrapes
- Gel padding in the palm reduces impact
- 5 mm EVA foam
- TPR stitching instead of sonic welding increases flexibility
- Textured reinforcements on palm side fingertips for better grip on dry surfaces
- Silicone-printed Snap-on® logo on palm

## Heavy-Duty Carbon Knuckle SuperCuff® Gloves

## GLOVE503 ‡

- Hard carbon knuckle helps protect heavy impacts from knuckle and back of the hand area
- Two-layer palm with nonslip panels on the thumb, index and middle fingers allow the user to perform the most extreme tasks without losing control
- Gel padding in the palm reduces vibrations without compromising dexterity

## Hi-Viz Carbon Knuckle SuperCuff® Gloves

## GLOVE503HCXX ‡

- Provide additional hand protection, while the Hi-Viz yellow color keeps hands visible during use
- Patented SuperCuff® design provides a super comfortable snug and secure wrist closure without restricting wrist and hand movement
- High visibility color keep hands visible while performing all tasks at hand
- Two-layer palm with nonslip fingertip panels on the thumb, index and middle fingers allows the user to perform the most extreme tasks without losing control
- Tough synthetic leather palm
- Great for tow truck operations
- Low-profile thermoplastic rubber (TPR) logo treatments
- Heavy Lycra panels between the fingers allow for greater comfort and fit
- Gloves are machine washable, air dry only

## Snap-on® Cut-Resistant Gloves

## GLOVE506

- EN 388: 2016 Level D and ANSI® A4 cut resistance—full front- and back-of-hand protection
- Hi-Viz TrekDry® material keeps working hands cool and comfortable
- Reflective ink provides eye-catching luminance
- Stretch-elastic cuff provides a secure fit to the wrist
- Reinforced thumb and index finger provide added durability
- Anatomically designed two-piece palm eliminates material bunching
- Pinched fingertip construction improves strength and durability
- High-dexterity 0.6 mm synthetic leather
- Touchscreen-capable fingers, palm and index finger knuckle
- Machine washable

## Snap-on® Cut-Resistant Impact Gloves

### GLOVE507

- EN 388: 2016 Level D and ANSI® A4 cut resistance—full front- and back-of-hand protection
- Thermoplastic rubber (TPR) knuckle guards and full-length fingertip protection reduce the risk of impact and pinching injuries
- Reflective ink provides eye-catching luminance
- Hi-Viz TrekDry® material keeps working hands cool and comfortable
- Touchscreen-capable, durable synthetic palm
- Armortex® palm reinforcement panel
- Internal fingertip reinforcements on all fingers provide added durability
- Embossed and textured fingertips provides grip
- D30® palm padding absorbs and dissipates high-impact energy through the palm
- Machine washable

#### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE507M

## Material4X® Standard Gloves

### GLOVE310

- Seamless Material4X® palm delivers higher abrasion resistance and greater tear resistance than standard synthetic gloves
- Form-fitting TrekDry® material helps keep hands cool and comfortable
- Thermoplastic rubber (TPR) closure with hook-and-loop provides a secure fit
- Reinforcement panels in high-wear areas provides added durability
- Padded knuckle protects from bumps and scrapes
- Machine washable

#### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE310M

## Material4X® Impact Gloves

### GLOVE311

- Internal EVA back-of-hand foam padding reduces the risk of impact injuries
- Thermoplastic rubber (TPR) knuckle guard for added impact protection
- Form-fitting TrekDry® material keeps working hands cool and comfortable
- Flexible thermoplastic rubber (TPR) closure provides a secure fit to the wrist
- Material4X® internal fingertip reinforcements provide added durability
- Embossed and textured index finger and thumb provides grip
- D30® palm padding absorbs and dissipates high-impact energy through the palm
- Material4X® synthetic leather delivers greater abrasion resistance and greater tear resistance than standard synthetic gloves
- Machine washable

#### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE311M

## Material4X® Impact Heavy-Duty Gloves

### GLOVE312

- Thermoplastic rubber (TPR) knuckle guards and full-length fingertip protection reduce the risk of impact and pinching injuries
- Internally sewn index finger knuckle is designed to work with hand tools
- Form-fitting TrekDry® material keeps working hands cool and comfortable
- Flexible thermoplastic rubber (TPR) closure provides a secure fit to your wrist
- Armortex® palm reinforcement panel
- Material4X® internal fingertip reinforcements on all fingers for added durability
- Embossed and textured fingertips provide grip
- D30® palm padding absorbs and dissipates high-impact energy through the palm
- Material4X® synthetic leather delivers greater abrasion resistance and greater tear resistance than standard synthetic gloves
- Machine washable

#### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE312M



• ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.  
• Read safety precautions on pages W1 to W4

## GLOVES



GLOVE320L

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## D30® Shock Absorbing Impact Gloves

## GLOVE320

- D30® impact protection throughout the palm and fingers to absorb and dissipate impact and vibration
- 2 mm impact-absorbing D30® pads are sewn internally on all fingers
- 4 mm impact-absorbing D30® padded heel section
- Abrasion-resistant synthetic leather palm reinforcement adds comfort and durability
- Internally bonded dual-layer fingertips with hot-stamp texture
- Thermoplastic rubber (TPR) wrist closure provides a secure and snug fit
- Touchscreen capable



GLOVE309L

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## Snap-on® Impact Gloves

## GLOVE309

- Thermoplastic rubber (TPR) knuckle guard and finger protection
- Durable microfiber palm with Armortex® palm reinforcement panel
- Dual-layer internal fingertip reinforces the index and thumb for added durability
- D30® palm padding absorbs impact and vibration
- Thermoplastic rubber (TPR) closure with hook-and-loop provides a secure fit



GLOVE800ML

## Sizes Available

| Size             | Suffix |
|------------------|--------|
| Medium/<br>Large | ML     |
| XL/XXL           | XLXX   |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## Fingerless Impact Gloves

## GLOVE800

- Palm reinforcements with PORON® padding protect hands and reduce hand fatigue
- Form-fitting spandex top
- EVA padded index finger knuckle
- Fingerless design for dexterity
- Flexible thermoplastic rubber (TPR) wrist closure



GLOVECAMOL

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## Woodland Camo Mechanic's Gloves

## GLOVECAMO

- Form-fitting TrekDry® material with Woodland Camouflage helps keep hands cool and comfortable
- Thermoplastic rubber (TPR) hook-and-loop closure provides a secure fit
- Seamless single-layer palm for maximum dexterity
- Double-stitched index finger construction improves durability
- Machine washable

## Original Mechanic's Gloves

### GLOVE600

- Form-fitting spandex top
- Long-lasting two-layer thumb panel
- Additional panels of synthetic protection surround the fingertips
- Machine washable—will not shrink or fade
- Flexible thermoplastic rubber (TPR) wrist closure
- Moisture-wicking TrekDry® material
- Durable abrasion-resistant synthetic palm

### Colors and Sizes Available

| Size   | Red | Green | Orange |
|--------|-----|-------|--------|
| Small  | S   |       |        |
| Medium | M   | MG    | MO     |
| Large  | L   | LG    | LO     |
| XL     | XL  | XLG   | XLO    |
| XXL    | XXL |       |        |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS AND SIZES



GLOVE600L

## Cold Weather Gloves

### GLOVE304A

- Heavyweight fleece outer
- Windproof insert with an inner Nylex® lining
- Grip thumb and palm panel
- Nylon finger gussets stay flexible in all weather conditions
- Synthetic leather protects the outer edge of the thumb
- Gauntlet cuff with hook-and-loop closure
- Water-resistant grip with two-piece palm

### Sizes Available

| Size   | Suffix |
|--------|--------|
| Small  | S      |
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE304AL

## Cold Weather Impact Gloves

### GLOVE307

- 5 mm EVA knuckle padding combined with Impact Guard™ on the index finger
- AX™ Materials Double Connect touchscreen-compatible thumb and index finger
- Hook-and-loop closure with Ariaprene® wrist panel for comfort and flexibility
- Triple-layer palm construction
- Micro-brushed tricot lining
- Water-repellent shell
- Gloves are machine-washable; air dry only

### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE307L

### Cold Weather Winter Impact Gloves

## Cold Weather SuperCuff® Gloves

### GLOVELMOSS‡

- Mossy Oak® poly-spandex fleece top lined with Bremberg® for additional insulation
- Lined genuine leather palm and index finger offers incredible dexterity and durability, along with added insulation for cold weather

### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVELMOSSL



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## GLOVES



GLOVE505RL

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## Deep Freeze Gloves

## GLOVE505 ‡

- Extreme weather all-over protection
- Windproof/waterproof barrier
- Rubberized palm and thumb for a great grip
- Reflective fingertips and cuff piping
- Incredible dexterity



GLOVE1100L

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XXL    |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## Grip Gloves

## GLOVE1100 Snap-on®

- Armortex® Grip covers the entire palm for durable gripping power
- Form-fitting TrekDry® material top
- Thermoplastic rubber (TPR) hook-and-loop closure provides a secure fit to the wrist
- Machine washable
- For a variety of uses, including material handling, maintenance, repair and home improvement projects
- CE approved



GLOVE601AL

## Sizes Available

| Size   | Suffix |
|--------|--------|
| Small  | S      |
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES

## Mossy Oak® Break-Up® Country Camo Gloves

## GLOVE601A

- Form-fitting TrekDry® material with Mossy Oak® Break-Up® Country camouflage helps keep hands cool and comfortable
- Thermoplastic rubber (TPR) hook-and-loop closure provides a secure fit
- Seamless single-layer palm provides maximum dexterity
- Durable synthetic leather
- Machine washable



GLOVE900LR

## Colors and Sizes Available



| Size   | Red | Green | Orange |
|--------|-----|-------|--------|
| Small  | SR  |       |        |
| Medium | MR  | MG    | MO     |
| Large  | LR  | LG    | LO     |
| XL     | XLR | XLG   | XLO    |
| XXL    | XXR | XXG   | XXO    |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS AND SIZES

## Touchscreen Slip-On Gloves

## GLOVE900 ‡

- Touch-screen-compatible reinforced fingertips
- Slip-on elastic cuff allows for easy access
- Soft and durable premium mesh fabric on the top of hand for optimal comfort and flexibility
- Premium synthetic leather is used in split palm construction for long lasting durability
- Wraparound index finger construction protects the vulnerable wear and tear zone
- Lightweight fabric between fingers for excellent dexterity
- Reflective treatments for increased visibility

## Abrasion-Resistant Nitrile Technician's Gloves

### GLOVE400 ‡ (Blue-Point®)

- Nitrile-dipped coating for protection on dirty jobs
- Ergonomically pre-curved design for comfort
- High abrasion-resistance protects hand from sharp edges
- Incredible grip and dexterity on wet and dry surfaces
- Lightweight nylon shell provides a nice, snug fit
- 3 pk of gloves
- Lightweight nylon shell provides a nice, snug fit
- 3 pk of gloves

#### Sizes Available

| Size   | Suffix |
|--------|--------|
| Small  | S      |
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XXL    |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE400L

## Fast Fit Technician Gloves

### GLOVE300B

- Easy on/off for ultimate convenience
- Great fit and feel; excellent value
- Performance plus economy
- Synthetic leather palm, stretch panels between the fingers
- Two way stretch spandex padded back

#### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |
| XXL    | XX     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE300BL

## Snap-on® Leather Palm Technician Gloves

### GLOVE701

- Comfortable stretch elastic cuff provides easy on-and-off flexibility
- Form-fitting TrekDry® material keeps working hands cool and comfortable
- Pinched fingertip construction improves strength
- Anatomically designed two-piece palm eliminates material bunching in the palm
- DuraHide® leather palm and thumb reinforcements provide extreme abrasion resistance
- Touchscreen-compatible index finger knuckle

#### Sizes Available

| Size   | Suffix |
|--------|--------|
| Medium | M      |
| Large  | L      |
| XL     | XL     |

ADD SUFFIX TO STOCK NUMBER FOR SIZES



GLOVE701L

## Glove Dispensers

### GLOVEHOLDERB Latex Glove Dispensing Rack

- Holds GLOVE5, GLOVE6, GLOVE7, GLOVE8 and GLOVE9 Series gloves
- Metal construction prevents damage
- Magnetic base allows attachment to the tool storage unit or other ferrous metal surface
- Three springs secure the box firmly in the holder
- Mounting holes for attachment to non-ferrous surfaces
- 10 x 5-5/8 x 3-7/8"
- Black



GLOVEHOLDERB



- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## SHOP SUPPLIES: LUBRICATION



AS16



AS8



ULUBE1

### Anti-Seize Lubricants

- Premium general-purpose copper/graphite blend anti-seize compound
- Formulated to prevent seizing and galling at high temperatures (resistant to 1,800 °F)
- Lubricates and protects against corrosion
- Eases assembly and disassembly of metal parts while reducing friction and wear

#### AS16 Anti-Seize Lubricant

- 16 oz bottle with an applicator brush attached to cap
- Premium general-purpose copper/graphite blend antiseize compound
- Formulated to prevent seizing and galling at high temperatures (resistant to 1,800 °F)
- Lubricates and protects against corrosion
- Eases assembly and disassembly of metal parts while reducing friction and wear

#### AS8 Antiseize Lubricant

- 8 oz bottle with applicator brush attached to cap
- Premium general-purpose copper/graphite blend antiseize compound
- Formulated to prevent seizing and galling at high temperatures (resistant to 1,800 °F)
- Lubricates and protects against corrosion
- Eases assembly and disassembly of metal parts while reducing friction and wear

### Synthetic Lubricant

#### ULUBE1 Synthetic Lubricant

- Easy-to-apply spray extends tool life
- Specially formulated for use with bearings and other rotating devices
- Case contains (12) 5.5 oz cans

## AUTO CARE/DETAILING



BUFF3KIT

### Buffing Kits

#### BUFF3KIT 6 pc Miniature Buffing Kit (Blue-Point®)

- Ideal for buffing and polishing autos, boats, motorcycles, aircraft and more
- Use on all painted surfaces, metal, chrome and wood
- Varied pad selection, from ultra fine to very aggressive
- Wavy edge allows the user to reach tight places
- Hook-and-loop retention system for quick, easy and secure pad/driver connection
- Includes (1) 1/4" shaft, (1) 3" dia. Shur-Grip pad holder, (1) blue wavy foam pad (fine polishing), (1) black lambswool pad (ultra-fine polishing), (1) twisted wool pad (aggressive buffing) and (1) fiberal wavy pad (ultra-coarse buffing)
- EU- GB

## HAND CLEANERS



WOD303CSA



WOD503CSA



WOD1050CSA



WOD423CSA



WOD623CSA

### Medicated Hand Cleaners

Medicated hand cleaner quickly dissolves and removes stubborn dirt and stains, while its antiseptic properties protect the skin

#### WOD303CSA Medicated Hand Cleaner

- Fresh orange scent
- Case of (4) 4-1/2 lb cans

#### WOD503CSA Medicated Hand Cleaner

- Case of (4) 4-1/2 lb cans

### Pumice Hand Cleaners

Extra-strength pumice hand cleaner with antiseptic ingredient

#### WOD1050CSA Pumice Hand Cleaner

- Fresh orange scent
- Case contains (4) 1-gallon bottles

#### WOD423CSA Pumice Hand Cleaner

- Extra-strength pumice hand cleaner with antiseptic ingredient
- Fresh orange scent

- Case contains (4) 4-1/2 lb cans

#### WOD623CSA Pumice Hand Cleaner

- Case contains (4) 4-1/2 lb cans



## Water-Activated Hand Cleaners

- Soybean-based, water-activated and concentrated formula with fibril scrubbers
- Contains antiseptic ingredient and conditioners for maximum skin protection

- Redline hand cleaner offers the highest performance skin cleaning with fibril/pumice double scrubbing action

### WOD2025ACSA 84 oz Water-Activated Hand Cleaner (4-pack)

- Case of (4) 84 oz bottles
- Requires WOD1027 Pump-Style Hand Cleaner Dispenser

### WOD2325ACSA 84 oz Redline High-Performance Hand Cleaner (4-pack)

- Case of (4) 84 oz bottles
- Requires WOD1027HT Pump-Style Hand Cleaner Dispenser

### WOD2018ACSA Water-Activated Hand Cleaner

- Portable size is perfect for a tool box, cart or at home
- Squeeze bottle with no-drip nozzle
- Case of (12) 18 oz bottles

### WOD2115ACSA Nitro-Gold Hand Cleaner

- For use in WOD8207 Auto Dispenser or WOD8307 Manual Dispenser
- Case of (4)

### WOD2164ACSA Nitro-Gold Hand Cleaner

- Concentrated, water-activated formula contains fibril, a natural cellulose scrubber, helpful in removing the hardest-to-remove substances, such as grease, grime, fifth wheel grease, etc.
- 100% biodegradable surfactants that are eco-friendly
- No solvents to dry your skin
- Soybean oil for added cleansing and skin conditioning
- 1/2-gallon dispenser with pump and handle for easy transport

### WOD2264ACSA Black Cherry Hand Cleaner

- Concentrated, water-activated formula contains fibril, a natural cellulose scrubber, helpful in removing the hardest-to-remove substances, such as grease, grime, fifth wheel grease, etc.
- 100% biodegradable surfactants are eco-friendly
- No solvents to dry your skin
- Soybean oil for added cleansing and skin conditioning
- 1/2-gallon dispenser with pump and handle for easy transport

### WOD2518ACSA Black Cherry Hand Cleaner 18 oz

- No solvents means it won't dry your skin
- Very appealing black cherry fragrance
- Non-drying formulation
- Eco-friendly
- 100% biodegradable
- Environmentally safe

### WOD2525ACSA 84 oz Black Cherry Hand Cleaner (4 pk)

- No solvents to dry your skin
- 100% biodegradable surfactants that are eco-friendly
- Soybean oil for added cleansing and skin conditioning
- Very appealing black cherry fragrance
- Non-drying formulation

### WOD1125ACSA Water-Activated Hand Cleaner

- Water-activated, solvent-free, concentrated cleansing formula for the toughest soils
- Soybean oil, surfactants, conditioners and fibril to cleanse and condition your skin
- 100% biodegradable

### WOD1025ACSA Nitro-Gold Water-Activated Hand Cleaner

- Water-activated, solvent-free, concentrated cleansing formula for the toughest soils
- Soybean oil, surfactants, conditioners and fibril to cleanse and condition your skin
- 100% biodegradable



WOD2025ACSA



WOD2325ACSA



WOD2018ACSA



WOD2115ACSA



WOD2164ACSA



WOD2264ACSA



WOD2518ACSA



WOD2525ACSA



WOD1125ACSA



WOD1025ACSA



- Do not ingest or use on face
- Read safety precautions on pages W1 to W4

## SHOP SUPPLIES: HAND CLEANERS



WOD507



WOD1027



WOD1027HT



WOD8207



WOD8307



WOD1127



WOD5020



WOD1000A

### Hand Cleaner Dispensers

#### WOD507 Heavy-Duty Hand Cleaner Dispenser

- Convenient for wall mounting
- Fits 4-1/2 lb can of hand cleaner

#### WOD1027 Pump-Style Hand Cleaner Dispenser

- Wall-mounted, pump-style dispenser for WOD2025ACSA or WOD2325ACSA hand cleaners in 84 oz bottles

#### WOD1027HT Pump-Style Hand Cleaner Dispenser

- Wall-mounted, pump-style dispenser for WOD2025ACSA or WOD2325ACSA hand cleaners in 84 oz bottles

#### WOD8207 Automatic Hand Cleaner Dispenser

- Auto-dispensing portion control means no waste, dripping or cross-contamination
- Over 900 washes per refill bottle
- Auto dispenser eliminates grease and grime accumulating on dispenser
- (4) D batteries will last 30,000 cycles (over 30 refills) or more than 18 months of battery life
- Sleek, ergonomic, attractive design is less than 4" wide, meeting the fire marshal code for hallways

#### WOD8307 Manual Hand Cleaner Dispenser

- Proprietary unit, refills only from your authorized Snap-on® franchisee (Refill: WOD2115ACSA)
- 2 mL dispenses with each activation and 750 hand washes per refill
- Sleek ergonomic and attractive design, less than 4" wide, meeting the fire marshal code for hallways
- Tamper-resistant and keyless locking cover
- Dispense from bottom, eliminating unused hand cleaner in refill

#### WOD1127 Touch-Free Hand Cleaner Dispenser

- Metered control for the exact amount needed to clean hands
- Long battery life with up to 80,000 activations
- No dripping, mess, or wasted soap
- Sleek, narrow design requires less wall space
- Works with WOD1025ACSA Nitro-Gold and WOD1125ACSA Black Cherry Hand Cleaner bottles

### Hand and Shop Towels

#### WOD5020 Hand and Tool Cleaning Towels

- Convenient hand towels for cleaning oil and grease from tools or hands
- Towels contain lanolin and rust preventatives

### Fingernail/Hand Brushes

#### WOD1000A Fingernail Brush

- Use with any WOD Series hand cleaner

## Wire Brushes

- Ergonomic cushion-grip handle is designed for maximum comfort and control
- Use with both hands to maximize pressure
- Heavy-gauge stainless steel, or brass bristles, give the units maximum strength and durability
- Choice of brush width and length allows coverage of a wide range of applications, such as cleaning rusted threads, battery terminals and gaskets, rust removal prior to welding and caulk/adhesive removal

| Stock No. | Description                             | Set Contains: |          |           |          |
|-----------|---|---------------|----------|-----------|----------|
|           |   | WBSET‡        | WBSSSET‡ | WBBS2BKT‡ | WBSS2BKT |
| WBBS2‡    | 2" Miniature Brass Wire Brush           | 2             |          | 25        |          |
| WBSS2     | 2" Miniature Stainless Steel Wire Brush | 1             | 1        |           | 25       |
| WBSS3     | 3" Stainless Steel Wire Brush           |               | 1        |           |          |
| WBSS5     | 5" Stainless Steel Wire Brush           |               |          |           |          |
| WBSS8     | 7-3/4" Stainless Steel Wire Brush       |               | 1        |           |          |
| WBSS5CAL  | 5" Stainless Steel Wire Caliper Brush   |               |          |           |          |



WBBS2



WBSS2



WBSS3



WBSS5



WBSS8



WBSS5CAL



WBSET



WBSSSET



WBBS2BKT



WBSS2BKT



AC58E



AC59C



AC5C



AC64B

## Specialty Brushes

### AC58E Wire Brush (Blue-Point®)

- Curved scratch brush
- Carbon steel bristles
- 13-3/4" long

### AC59C Stainless Steel Wire Brush (Blue-Point®)

- Curved scratch brush with stainless steel bristles
- 13-3/4" long

### AC5C Hand Scratch Brush (Blue-Point®)

- Stainless steel wire bristles for use where corrosive materials are found
- 7-7/8" long

### AC64B Shoe Handle Scratch Brush (Blue-Point®)

- Carbon steel bristles
- 5" long



- Do not ingest or use on face
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## SHOP SUPPLIES: WIRE WHEELS



AC48A



AC48ADAPT3/4



AC48ADAPT1

### Crimped Industrial (Tempered High-Density Wire)

| Stock No. | Brush Diameter, inches | Width, inches | Arbor Hole, inches | Maximum Safe Free Speed, RPM |
|-----------|------------------------|---------------|--------------------|------------------------------|
| AC48A     | 8                      | 1             | 5/8                | 4,500                        |

#### AC48A Crimped Industrial Wire Wheel (Blue-Point®)

- 8" dia., 5/8" arbor hole

#### AC48ADAPT1 Wire Wheel Shaft Adaptor (Blue-Point®)

- Adapts the AC48A to a 1" shaft

#### AC48ADAPT3/4 Wire Wheel Shaft Adaptor (Blue-Point®)

- Adapts the AC48A to a 3/4" shaft



AC26E

### Crimped Heavy-Duty (Non-Tempered Wire)

| Stock No. | Brush Diameter, inches | Width, inches | Arbor Hole, inches | Maximum Safe Free Speed, RPM |
|-----------|------------------------|---------------|--------------------|------------------------------|
| AC26E     | 6                      | 29/32         | 5/8, 3/4, 1        | 6,000                        |
| AC28E     | 8                      | 1-1/8         | 5/8, 3/4, 1        | 4,500                        |

### Twisted Tuft

Tufts are 1-1/4" long and are twisted about two-thirds of the way.



AC614B

| Stock No. | Wheel Diameter, inches | Wheel Width, inches | Wire Size, inches | Arbor Hole, inches | Maximum Safe Free Speed, RPM |
|-----------|------------------------|---------------------|-------------------|--------------------|------------------------------|
| AC614B    | 6                      | 1/2                 | .016              | 1/2, 5/8           | 9,000                        |

### Encapsulated

- Individual wire tips are encased in synthetic elastomer material (gradually wears away to expose only wire tips) for consistent stiff brushing action
- Ideal for auto body and surface applications



AC207A

| Stock No. | Wheel Diameter, inches | Wheel Width, inches | Wire Size, inches | Arbor Hole, inches | Maximum Safe Free Speed, RPM |
|-----------|------------------------|---------------------|-------------------|--------------------|------------------------------|
| AC207A    | 2                      | 1/4                 | .014              | 3/8, 1/2           | 18,000                       |
| AC217A    | 3                      | 1/4                 | .014              | 3/8, 1/2           | 18,000                       |

## KNEE PADS/BACK SUPPORT



KNEEPAD2



KNEEPAD3

### Knee Pads

#### KNEEPAD2 Kneepads

- Polypropylene cap protects against floor debris
- Outer cap is securely attached to padded nylon inner pad for maximum comfort
- Extra-wide hook-and-loop straps for easy on/off
- Lightweight

#### KNEEPAD3 Gel Cushioned Kneepads

- Wide neoprene rear lower flap reduces chafing
- Gel cushioned for maximum comfort
- Hook-and-loop straps for easy on/off, secure fit and comfort
- Hinged pad extensions for a comfortable fit



BACK1L

Colors and Sizes Available



| Size   | Black | Red |
|--------|-------|-----|
| Small  | SBK   | S   |
| Medium | MBK   | M   |
| Large  | LBK   | L   |
| XL     | XLBK  | XL  |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS AND SIZES



BACK1LBK

### Back Supports

- Curved, firm support pads help reduce back fatigue
- Unique patented lumbar pad design to firmly support the lower back
- Not a replacement for proper workplace design and proper training in lifting, twisting and bending movements

| Stock No. | Size                 |
|-----------|----------------------|
| BACK1S    | Small, 27–32" waist  |
| BACK1M    | Medium, 31–36" waist |
| BACK1L    | Large, 35–40" waist  |
| BACK1XL   | XL, 39–44" waist     |

# DIAGNOSTICS

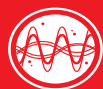
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# DON'T JUST GET TO THE RIGHT ANSWER. GET TO IT FASTER.

From problem-solving scan tools to our top-of-the-line diagnostic and information system, Snap-on® has the right solution for every shop, every tech and every budget. Each platform is designed for intuitive operation and to help you pinpoint and fix the problems fast. Our revolutionary Intelligent Diagnostics takes the advantages a step further, by filtering out the steps you don't need to find the solution even quicker.



**INTELLIGENT DIAGNOSTICS** This groundbreaking user interface saves you time and money by providing access to the filtered code and vehicle-specific data – all on one screen. Its Smart Data provides PIDs relevant to the fault code on the specific vehicle you're working on.



**SCAN TOOLS** Our industry-leading scan tool features include OEM-specific coverage for dozens of systems on over 47 makes. Expert information on top repairs and real fixes for the specific vehicle and DTC. And other proprietary advantages you'll find nowhere else.



**MULTIFUNCTION TOOLS** Whether you need a platform that combines scan, scope and expert information resources in one tool, or additional features like a big 10-inch display, Windows® multitasking or the freedom of Wi-Fi and wireless scanning, you'll find it in our range of diagnostic tools.



**LAB SCOPE** Exclusive Fast-Track® Guided Component Tests and the accuracy of six million data samples per second help make your diagnoses and repairs even more precise.



TRITON DB



Scanner



OBD-II/E/OBD



Guided Component Tests



Scope Multimeter



Quick Lookups



Previous Vehicles and Data



Tools

**Snap-on**



# DIAGNOSTICS QUICK REFERENCE GUIDE

Whether you're a technician who's just starting out or a veteran of the shop, Snap-on has a diagnostic tool that's sure to fit.



P1000



ETHOS® Edge



SOLUS Edge™

| Platform Features   | P1000™ | ETHOS® Edge | SOLUS Edge™ |
|---|--------|-------------|-------------|
| Automotive Coverage   | •      | •           | •           |
| Motorcycle Coverage   | •      |             |             |
| Exclusive Intelligent Diagnostics* Access                                   |        |             |             |
| Preselected Technical Service Bulletins Specific To The Code and Vehicle    |        |             |             |
| Access To Smart Data For Code Specific Data                                 |        |             |             |
| Preselected Functional Tests and Resets Specific To The Code and Vehicle    |        |             |             |
| Preselected Guided Component Tests Specific To The Code and Vehicle         |        |             |             |
| Color Display Screen  | 5.6"   | 5.6"        | 8"          |
| Touch Screen Operation  | •      | •           | •           |
| Hi-Speed Wireless Vehicle Connection  |        |             |             |
| Intuitive System Menu   | •      | •           | •           |
| Topic-Specific Help   |        |             |             |
| Exclusive Suretrack® Expert Information                                     |        |             | •           |
| Instant ID  | •*     | •           | •           |
| Quick Look-Ups From Home Screen   |        | •           | •           |
| Tire & Wheel Service  | •*     | •           | •           |
| Oil Change Specs and Resets   | •*     | •           | •           |
| One-Touch Code Scan & Clear   | •      | •           | •           |
| Code Scan Report  | •      | •           |             |
| Vehicle System Report   |        |             | •           |
| Pre-/Post-Scan Report Auto Upload To Snap-On® Cloud                         |        |             | •           |
| Device Screen Shots and Photos Upload To Snap-On® Cloud                     |        |             |             |
| Oem-Specific Fault Codes  | •      | •           | •           |
| Functional Tests & Bi-Directional Controls                                  | •      | •           | •           |
| Enhanced Service Resets & Relearns Menu, Tsbs & Component-Based Top Repairs |        |             |             |
| Relearns and Adaptations  | •      | •           | •           |
| Scope Multimeter  |        |             |             |
| Live Data Graphing (Scanner and/or Scope)                                   | •      | •           | •           |
| Side-By-Side Ctm and Scanner Viewing  |        |             |             |
| Exclusive Guided Component Tests  |        |             |             |
| Onboard Ctm Training Courses  |        |             |             |
| Wi-Fi Enabled   | •      | •           | •           |
| Internet Browser  |        |             |             |
| Software Subscription Program   | •      | •           | •           |
| Online Software Update Via ShopStream Connect™                              | •      | •           | •           |
| Over-Air Automatic Software Update  |        |             |             |
| ShopKey® Repair Information (Optional)                                      |        |             |             |
| ShopKey® Management System (Optional)                                       |        |             |             |
| Internal 60 Gb Solid State Drive  |        |             |             |
| Onboard Camera  |        |             |             |
| Wireless Printing   |        |             |             |
| Microsoft® Security Essentials  |        |             |             |
| Install Your Own Software Applications                                      |        |             |             |
| Docking Station with Hdmi Port For External Display (Optional)              |        |             |             |

\*Available for automotive coverage only

\*For full functionality, a subscription or current software license must be in place.

Some functions require Internet access

Some functions not available for all vehicle makes





**TRITON-D<sub>8</sub>® DIAGNOSTIC AND INFORMATION SYSTEM****TRITON-D<sub>8</sub>®****EEMS343EUR****TRITON-D<sub>8</sub>®****EEMS343EUR TRITON-D<sub>8</sub>®**

- Scans for vehicle fault codes and diagnostic trouble codes (DTCs)
- Accesses OEM TSBs specifically related to the vehicle and DTC
- “Smart Data” automatically displays the vehicle data parameters (PIDs) relevant to the fault code; saves time by filtering unrelated data parameters
- Highlights vehicle data that is out of expected range
- Functional tests verify component operation; reset procedures complete the repair
- Guided component tests for the specific fault code and vehicle ensure support throughout the diagnostic process
- Fast and easy icon navigation operates completely by touchscreen, or with the 4-way keypad and Y/N button
- Enhanced coverage for nearly 50 makes without the cost and complexity of factory scan tools
- OEM specific coverage for dozens of vehicle systems, including the new systems techs need; like ADAS, hybrids, TPMS, steering, body controls, EVAP, clean diesels, and more
- Read and clear trouble codes; display detailed trouble code descriptions
- Graph from one to four live data parameters (PIDs) simultaneously; view up to eight data parameters in text mode
- Print, save, share and view vehicle system reports via the Snap-on® cloud
- Powerful functional tests and bidirectional controls provide control of vehicle systems for repair validation and a confident diagnosis
- No need to recharge; unique steady-charge battery technology charges via the data cable when connected to the vehicle
- High-capacity microSD™ card contains diagnostic software and stores the data files
- Overall dimensions: Width 11.1 x 6.3 x 1.6" (281 x 160 x 40.3 mm); weight (including battery) is 2.6 lb
- 8" diagonal, daylight-readable, color LCD display with touchscreen; 800 x 480 pixel resolution

**Includes:**

- TRITON-D<sub>8</sub>®, upgradeable software on a microSD™, key-less data cable for all OBD-II vehicle applications—9' with an LED flashlight, lithium-ion battery pack, 120 V AC power adapter and cord
- USB cable for PC connection, custom-fit nylon carrying case, safety instructions, quick-start guide



EESC333EUR

## Apollo-D<sub>8</sub>™ Diagnostic and Information System

### EESC333EUR APOLLO-D<sub>8</sub>™ Intelligent Diagnostics

#### Full-Function Scan Tool

- Scans for vehicle fault codes and diagnostic trouble codes (DTCs)
- Accesses OEM TSBs specifically related to the vehicle and DTC
- “Smart Data” automatically displays the vehicle data parameters (PIDs) relevant to the fault code; saves time by filtering unrelated data parameters
- Highlights vehicle data that is out of expected range
- Functional tests verify component operation; reset procedures complete the repair after component replacement—only those that pertain to that fault code are shown
- Fast and easy icon navigation operates completely by touchscreen, or with the 4-way keypad and Y/N button
- Enhanced coverage for nearly 50 makes without the cost and complexity of factory scan tools
- OEM-specific coverage for dozens of vehicle systems, including the new systems techs need, like hybrids, TPMS, steering, body controls, EVAP, clean diesels and more
- Read and clear trouble codes; display detailed trouble code descriptions on-screen
- Graph from up to four live data parameters (PIDs) simultaneously; view up to eight data parameters in text mode

- Print/save/share/view results on a PC via ShopStream Connect™ software
- Powerful functional tests and bi-directional controls provide control of vehicle systems for repair validation and a confident diagnosis
- No need to stop to recharge; unique steady-charge battery technology charges via the data cable when connected to the vehicle
- High-capacity microSD® card contains diagnostic software and stores data files
- Overall dimensions: 11.1 x 6.3 x 1.6" (281 x 160 x 40.3 mm); weight (including battery) is 2.6 lb
- Display screen: 8" diagonal, daylight-readable LCD; 800 x 480 pixel, Color; Resistive touch-screen

#### Includes:

- APOLLO-D<sub>8</sub>™ scan tool
- Upgradeable software on a microSD® card
- Key-less data cable for all OBD-II vehicle applications—9' with an LED flashlight
- Lithium-ion battery pack
- 120 V AC power adaptor and cord
- USB cable for PC connection
- Custom-fit nylon carrying case
- Safety instructions
- Quick-start guide
- Inclusive of European software



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

# ETHOS® EDGE SCAN TOOL

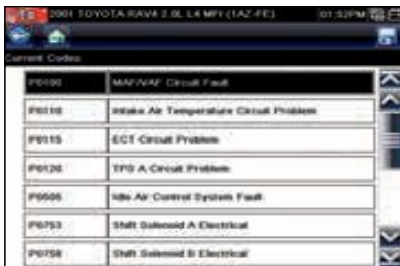
ETHOS® Edge



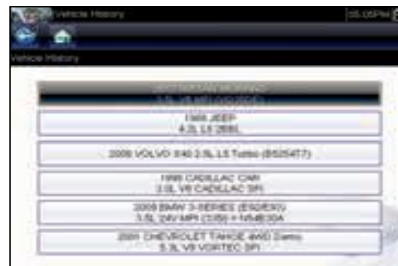
EESC332



OEM-specific codes and live data graphing for critical vehicle systems.



Read and clear OEM proprietary and global codes in just seconds with clear code definitions on screen.



Fast touch-screen operation for vehicle ID and navigation. Saves previous vehicles and data for review.



Graph up to four live data parameters at once. Set triggers to catch intermittent faults.

## EESC332 ETHOS® Edge Scan Tool

- Full-function diagnostics, including codes, live data graphing, functional tests, service light resets, relearns and adaptations
- Coverage includes 1983–current vehicles (US vehicles only)
- OEM-specific coverage for 49 domestic, Asian and European makes
- Large, full-color 5.6" VGA touchscreen for precise graphing and detailed results
- Embedded SMX® Operating System is dedicated to diagnostic functions for fast, reliable operation
- Steady-charge system charges the lithium-ion battery from the vehicle, eliminating changing or charging batteries
- Super-fast startup—ready to work in just five seconds
- Automatic vehicle ID eliminates the need to manually enter the VIN
- One-touch full vehicle code scan and clear quickly checks and clears codes for all available modules on the vehicle

- High-capacity microSD® card contains diagnostic software and stores the data files
- Customizable tools: pause and review live data, create custom data lists, set min/max triggers to flag abnormal data and zoom in on graphs to monitor vehicle performance over time
- Detailed trouble code definitions, live data, functional tests, relearns, and adaptations
- Ability to record all available live data parameters and graph any four on screen simultaneously

### Includes:

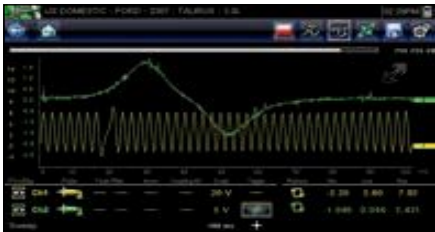
- ETHOS® Edge scan tool
- 5' data cable with a key-less OBD-II connector
- USB cable for connection to a PC
- Padded nylon carry case
- Battery pack
- AC power adaptor
- Quick-start guide



EAK0301B07C

## EAK0301B07C European Vehicle Keys and Adaptors Kit

- For use with all ETHOS® series scan tools



Precision high-resolution display makes it easy to see vehicle faults and component failures.



EETM309



Component locator and connector diagrams show the best test locations.



Vehicle-specific tests for millions of component applications automatically preconfigure meter settings to save time and eliminate guesswork.



Exclusive Fast-Track® Guided Component Tests show where to test, how to connect and what to look for.

### EETM309 Vantage® Ultra Component Test System

- The perfect companion to any scan tool – adds confidence to any diagnosis
- High-speed lab scope, digital and graphing meter and expert information makes it easy to verify component faults
- Exclusive Fast-Track® Troubleshooter guided component tests verify component failures with test procedures, automatic meter setup, connector diagrams, component locator and waveform library
- Test components before replacing for accurate first-time repairs
- Our fastest operating system with superfast boot-up in only five seconds – diagnostic results in only 30 seconds
- Easy one-touch navigation using big 8" color touch screen or keypad operation
- Vehicle-specific component tests for over 40 US, Asian and European makes, 1981–current
- PC connectivity via USB port; save, share, view, print files via ShopStream® Connect application available at no charge
- Coverage for thousands of components on all major vehicle systems – engine, fuel, transmission, emissions, ignition, ABS, lighting, solenoids, valve train, cooling, climate, anti-theft, oxygen sensor and many more
- Save your diagnostic results and screen images on internal microSD™ card
- 6 million samples/sec
- 3MHz bandwidth
- Preset and custom meter settings
- Peak detect, cursors and glitch capture to help find problems other scopes miss
- **Includes:** Vantage® Ultra component test meter, two shielded scope leads, probes, clips, 110 V AC power adaptor, high energy Lithium-ion battery pack and soft-sided nylon carry case
- **Optional accessories:** Precision low-amp probe, low-pressure transducer, medium-pressure transducer, high-pressure transducer, screen protectors, pressure adaptor (required for pressure transducer use), organizers for three-series carts, organizers for four-series carts and a wide range of ignition adaptors



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

**SOLUS Edge™ SCAN TOOL****SOLUS™ Edge****EESC320EUR****SOLUS Edge™ Scan Tool****EESC320EUR SOLUS Edge™ Full-Function Scan Tool with European Software**

- Wi-Fi access to SureTrack® expert information and verified parts replacement records for a confident diagnosis
- Super-fast startup—ready to use in just five seconds, with results in as little as 30 seconds
- Detailed trouble code definitions and live data—powerful functional tests, relearns, and adaptations to control vehicle systems and validate repairs
- Large 8" touchscreen display for great readability and ease of use
- Custom data lists—freeze frame, PID sorting, pause, zoom, PID trigger and cursor functions
- Embedded SMX® operating system is dedicated to diagnostic functions for fast and reliable operation
- Fast-Track® Troubleshooter database includes vehicle-specific tips, tests and time-savers
- Fast and easy icon navigation operates completely by touchscreen, or with the four-way keypad
- Enhanced coverage for over 49 makes, including domestic, Asian and European without the cost and complexity of factory scan tools (European coverage optional)
- OEM-specific coverage for more than 100 vehicle systems, including the new systems techs need, like hybrids, TPMS, steering, body controls, EVAP, clean diesels and more
- Print/save/share/view results on a PC via ShopStream Connect™ software
- No need to stop to recharge—unique steady-charge battery technology charges from the vehicle's power

**Includes:**

- SOLUS Edge™ scan tool
- Upgradeable software on a microSD® card
- Data cable for OBD-II vehicle applications
- Lithium-ion battery pack
- 110 V AC power adaptor
- USB cable for PC connection
- Screen protector
- Nylon carry case
- Safety instructions and user manual on CD

**Optional Accessories:**

- European software activation
- European vehicle adaptor kit
- OBD-I complete adaptor kit
- Extended-length 9' OBD-II data cable
- 3 pack of screen protectors
- 8' x 2' SOLUS Edge™ shop banner
- Inclusive of European software

**EAK0301B07C****SOLUS Edge™ Accessories****EAK0301B07C European Vehicle Keys and Adaptors Kit**

- For use with EESC320 SOLUS Edge™ scan tools



EEMS342EUR

## ZEUS® Diagnostic and Information System

### EEMS342EUR ZEUS® Intelligent Diagnostic and Information System

- Exclusively hosts the all-new Intelligent Diagnostics\*
- Intelligent Diagnostics provides direct access to key information for the specific vehicle and code the technician is handling
- Get direct access through Intelligent Diagnostics to vehicle and code-specific TSBs, smart data, functional tests and reset procedures, Fast-Track® Troubleshooter Guided Component Test Meter and SureTrack® information
- TSBs provide the latest information and technical bulletins, straight from the manufacturers
- Smart data automatically creates a custom data list for a specific code and highlights the values that are out of range
- Fast, easy access to expert Information via SureTrack®—provides real-world repairs, tips and time savers from real technicians
- Avoid unnecessary parts replacement—exclusive Fast-Track® Troubleshooter Guided Component Tests show what to test, how to connect and what results to look for
- Access to the optional ShopKey® Pro (SureTrack® requires Wi-Fi access and the current software upgrade)
- Startup in about a minute; powers up in Ready Mode in just five seconds
- Secure 64 GB solid-state drive and a Quad-core Intel® Celeron® processor (1.83 GHz, 2 GB RAM, 32-bit)
- Built-in Wi-Fi and internet browser for the freedom to work wirelessly
- Thin, light tablet-style design with a high-resolution 1,280 x 800 pixel display
- Factory-installed antivirus and security essentials
- Comprehensive data manager can store thousands of vehicle records, customer data, vehicle IDs, fault codes, repair notes and diagnostic results
- Capacitive touchscreen is sensitive to every gesture
- Stay connected to the vehicle and the internet while moving freely around the service bay
- Modular, dockable scope/meter with 9' USB cable for extended reach and portability
- One-Touch Full Vehicle Code Scan and Clear—quickly checks and clears codes for all available modules on the vehicle
- Industry-leading functions, tests and coverage previously found only in expensive factory tools
- OEM-specific coverage for 49 makes, as far back as 1980 (European optional)
- Codes, live data, functional tests, relearns and adaptations for hundreds of vehicle systems
- High-speed 4-channel lab/ignition scope and digital/graphing meter
- Six megasamples/second sample rate and glitch-capture detects faults that other scopes miss
- Scale range: 0–100 mV to 0–400 V, 50 kV secondary ignition
- Sweep rate: 50 microseconds to 20 seconds (5 min in GMM mode) so the technician doesn't miss a thing
- Exclusive Fast-Track® Guided Component Tests for 40 domestic, Asian and European makes
- V DC, V AC, ohms, frequency, duty cycle, pulse width, diode test and more

\*For full functionality a subscription or current software license must be in place.

## ZEUS® Accessories

### EAX0068L27A OBD-I DA-6 Cable Adaptor

- Expands the capabilities of the Compact Scan Module to include domestic, Asian, and European vehicles that use OBD-I test connections

### EAX0072L01A DA-4EX OBD Cable Extender

- Expands the use of the SCAN Module Compact Scan Module in tight areas under the dash



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

## P1000™ MOTORCYCLE DIAGNOSTIC SCAN TOOL



EESC334MK

### P1000™ Motorcycle Diagnostic Scan Tool

#### EESC334 P1000™ Motorcycle Scan Tool

- Comprehensive diagnostics with codes, live data graphing, functional tests, relearns and adaptations
- Accelerates maintenance tasks with special functions like brake bleeding, service light reset, compression tests and fuel tank drain
- Embedded SMX® operating system dedicated to diagnostic functions for fast, reliable operation
- Steady-charge system charges the lithium-ion battery from the bike
- Consistent navigation for all makes, which is consistent with the current Snap-on® diagnostic range
- Operate with LCD touchscreen functionality or with the four-way keypad
- 5.6", daylight-readable, color LCD display with resistive touchscreen; 640 x 480 pixel resolution
- Compare any eight live data parameters on screen at once, or graph up to four simultaneously to isolate the root cause of vehicle problems
- One-touch full vehicle code scan reads all available vehicle systems
- Automatic vehicle ID eliminates the need to manually enter the VIN or vehicle ID on compatible vehicles
- Upgradeable software on microSD® card
- Key-less data cable for all OBD-II vehicle applications—9' with an LED flashlight
- Lithium-ion battery pack

- 120 V AC power adaptor and cord
- USB cable for PC connection
- Custom-fit nylon carrying case
- Safety instructions and quick-start guide

#### 2-06250A Battery Pack

#### 2-60666A Power Supply

#### EAK0333L20A Carry Case, Padded

#### EAX0066L81A USB Interface Cable

#### EAX0068L01AG OBD-I Data Cable

#### EAX0068L26A OBD-II Data Cable with LED Light, 9'

#### EAX0066L07A Power Cable, Battery Clip, 12 V

#### EESC334MK P1000™ Motorcycle Diagnostic Scan Tool (Master Kit)

- Makes include: Harley-Davidson®, BMW®, Victory®, Indian®, Ducati®, Yamaha®, Honda®, Kawasaki® and Suzuki®
- Includes automotive coverage for domestic, Asian and European vehicles

#### EESC334EU P1000™ Motorcycle Scan Tool (European makes)

#### EESC334AS P1000™ Motorcycle Scan Tool (Asian makes)

#### EESC334NA P1000™ Motorcycle Scan Tool (North American makes)



EAX0068L26A

### Scan Tool Accessories

#### EAK0347L20A Smart Vehicle Interface Adaptor Kit, BMW®

#### EAK0347L21A Smart Vehicle Interface Adaptor Kit, DLC Adaptor

#### EAK0347L22A Smart Vehicle Interface Adaptor Kit, Harley-Davidson®

#### EAK0347L23A Smart Vehicle Interface Adaptor Kit, Indian® and Victory®

#### EAK0347L24A Smart Vehicle Interface Adaptor Kit, Ducati®

#### EAK0347L25A Smart Vehicle Interface Adaptor Kit, Suzuki®

#### EAK0347L26A Smart Vehicle Interface Adaptor Kit, Honda®

#### EAK0347L27A Smart Vehicle Interface Adaptor Kit, Kawasaki®-1

#### EAK0347L28A Smart Vehicle Interface Adaptor Kit, Kawasaki®-2

#### EAK0347L29A Smart Vehicle Interface Adaptor Kit, Kawasaki®-3

#### EAK0347L30A Smart Vehicle Interface Adaptor Kit, Yamaha®

#### EAX0068L26A OBD-II Data Cable with LED Light, 9'

#### EAX0068L01AG OBD-I Data Cable

#### EAC0110L35A3 Display Protectors

#### EAK0313L05A Tote Case, Compact





**EETH300**



**EETH310**

**Diagnostic Tools**

**EETH300 Diagnostic Thermal Imager**

- Uses infrared imaging technology to reveal heat from friction, electrical resistance, pressure changes and more
- See precise detail with complete thermal images made up of 4,800 temperature zones
- Shows extreme temperatures from -4–840 °F (-20–450 °C)
- Detects problems all around the vehicle: brakes, heated seats, misfires, HVAC, worn bearings, belts, emission controls and many more
- Exclusive database of guided tests shows dozens of valuable automotive applications
- Reference images showing normal components and failed components, so the technician knows exactly what to look for
- Large 3-1/2" color screen so the technician doesn't miss a clue; 320 x 240 pixel resolution
- Point at any area of the vehicle to see detailed images of an object's heat signature
- Color reference scale automatically calibrates, so the technician knows the temperature of everything in the image
- Images are captured with a pull of the trigger; saved images can be used for reference and to create convincing repair orders
- Pistol-grip ergonomics for comfort and convenient access to tight locations
- Rechargeable high-power lithium-ion battery with 4-hour charge life and convenient battery level indicator
- Image refresh rate: nine times per second
- Includes the thermal imager, microSD™ card, AC charger, USB cable a user guide

**EETH310 Diagnostic Thermal Imager Elite**

- Using Wi-Fi, upload images to ALTUSDRIVE.com to print, store and share images captured on the Thermal Imager Elite
- Point at any area of the vehicle to see detailed images of an object's heat signature
- Shows extreme temperatures from -4–840 °F (-20–450 °C)
- Detects problems all around the vehicle: brakes, heated seats, misfires, HVAC, worn bearings, belts, emission controls and many more
- Exclusive database of guided tests shows dozens of valuable automotive applications
- Reference images showing normal components and failed components, so the technician knows exactly what to look for
- Large 4.3" color screen so the technician doesn't miss a clue; 320 x 240 pixel resolution
- Customized views on screen assist in diagnosis and pinpointing location; choose from picture in picture, full thermal and side by side
- Color reference scale automatically calibrates, providing the temperature of everything in the image
- Images are captured with a pull of the trigger; saved images can be used for reference and to create convincing repair orders
- Pistol-grip ergonomics for comfort and convenient access to tight locations
- Rechargeable high-power lithium-ion battery with a 4-hour charge life and convenient battery level indicator
- Image refresh rate: nine times per second
- Includes a thermal imager, microSD® card, AC charger, USB cable and a user guide

**2-05639A01 USB Charger/Cable**



**2-05639A01**



• Do not use in atmosphere with explosive vapor  
 • Read safety precautions on pages W1 to W4

## THERMAL IMAGER



EETH311

## Diagnostic Tools

**EETH311 Diagnostic Thermal Laser**

- Thermal image blending with a visible-light camera to provide more detail
- 2.8" colored display with 32 x 32 thermal sensor resolution for clear and accurate viewing
- Temperature readings of up to 1,800 °F (982 °C) in laser mode, great for diagnosing and troubleshooting catalytic converters, exhaust manifolds and DPFs
- Delta feature in laser mode for capturing high and low readings, as well as their difference (delta), ideal for checking inlet and outlet temperatures of catalytic converters
- Stores hundreds of images
- Laser pointer for pinpoint accuracy on faulty parts
- LED light for use under dashes and in dark engine bays
- Images are captured with a pull of the trigger; saved images can be used for reference and to create convincing repair orders
- Pistol-grip ergonomics for comfort and convenient access to tight locations
- Rechargeable high-power lithium-ion battery with up to an 8-hour charge life and convenient battery level indicator
- USB cable for charging and transferring files to a computer to share with customers
- Includes the thermal Laser, AC charger, USB cable and a quick-start guide



EEDM300B

**EEDM300B Scope/Meter, Two Channel**

- Two-channel high-speed lab scope and digital graphing meter
- 20 megasamples/second/channel and 3 MHz bandwidth for accurate testing of high-speed signals used in the latest automotive technology
- Tests V DC, V AC, ohms, continuity, capacitance, frequency, duty cycle, pulse width and diodes
- Full-color, backlit high-resolution display for clear, precise results
- Selectable scales from 0–100 millivolt to 0–1,000 V DC
- High-energy, rechargeable NiMH battery for 8–12 hours of continuous use
- CAT III and CAT IV certification; hybrid-ready
- High-input impedance: 10 megohm avoids risk to electronic components
- Operate as a stand-alone tool or wirelessly with the VERDICT® system
- Scope sweep rates from 25 microseconds to 10 seconds (up to 60 minutes in DMM mode) for a wide range of applications
- 20 megasamples per second per channel and 290 data

points per screen makes it easy to catch component faults and glitches

- Additional features include graphing and digital results, and oversized digits for easy viewing at a distance
- Normal and inverse display for optimum visibility in daylight and dark
- Manual/auto configure
- Peak detect
- Freeze/run
- Easy setup with (4) function buttons and on-screen menus
- Color-coded waveforms; two channels to compare readings from multiple components side by side in real time

**Includes:**

- Test leads
- AC power adaptor/charger
- Quick Start Guide
- Soft case



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

## ZEUS®/VERUS® Edge/ VERUS® PRO ACCESSORIES



EAA0418L04A



EAK0301B10A



EAK0301B07C



EAA0365L04A



EAC0107L17A3

### ZEUS®/VERUS® Edge Accessories

#### 2-04339A Power Supply

- AC power supply for ZEUS® and VERUS® Edge

#### 6-07121A Power Cord for 2-04339A Power Supply

#### EAA0418L04A Docking Station

- ZEUS®/VERUS® Edge docking station

#### EAA0418L05A Battery Pack

- ZEUS®/VERUS® Edge battery pack

#### EAA0418L11A Stylus with Two Spare Tips

- ZEUS®/VERUS® Edge stylus with (2) spare tips

#### EAC0107L19A1 Tempered Glass Screen Protector

- Tempered glass screen protector

#### EAK0301B07C VERUS® Series European Vehicle Keys and Adaptors Kit

- For use with all VERUS® Snap-on® scan tools

#### EAK0351L01A ZEUS® Scan Adaptor Set, OBD-I, pre-1996

#### EAK0351L02A ZEUS® European Vehicle Keys and Adaptors Kit

#### EAK0301B10A Scan Adaptor Set, OBD-I, Pre-1996

- OBD-I scan adaptor master kit for pre-1996 US and Asian vehicles
- Complete adaptor set of all available Snap-on® OBD-I adaptors for 1980–newer US and 1983–newer Asian vehicles
- Takes advantage of the OBD-I scanner coverage built into the diagnostic tool
- Kit includes a custom-molded organizer tray and data cable convertor, jumper lead set, ground lead, 12 V DC adaptor and (17) OBD-I adaptors for: Multi-1, Multi-2, Kia® 2, Ford® 1B, Ford® 4, GM® 1, Toyota® 1, Toyota® 2, Nissan® 1, Nissan® 2, Mazda® 1, Honda® 1, Mitsubishi® 1, Chrysler® 1, Chrysler® 2, Jeep® 1 and Hyundai® 2
- UL® and cUL listed

#### ZEUSFOAM2 Foam Drawer Inserts, ZEUS® for KRSC246 Cart

#### ZEUSFOAM3 Foam Drawer Inserts, ZEUS®, KRSC 3-Series Carts

#### ZEUSFOAM4 Foam Drawer Inserts, ZEUS®, KRSC 4-Series Carts

### VERUS® PRO Accessories

#### EAA0365L04A Docking Station

- Convenient and secure charging station for VERUS® PRO
- Keeps the tool powered and charged up all day long—uses a standard power adaptor included with the VERUS® PRO
- 15-pin video connector connects to an external big-screen monitor to display VERUS® PRO results
- Built-in USB hub to connect up to four USB devices
- Multiposition stand: vertical, angle or fold to lay flat in a tool storage drawer
- Simple and secure drop-in docking makes for fast grab-and-go portability

#### EAC0107L17A3 Screen Protectors

- Includes three removable screen protector sheets
- Easy peel-and-stick application
- Custom fit for VERUS® PRO
- Simply peel off the old protector sheet and press on a new one
- Helps keep VERUS® PRO touchscreen clean and protected
- Helps maintain touchscreen sensitivity
- Protects the screen from scratches, solvents and dirt
- Crystal-clear protection for optimum viewing inside the shop or outside in the sun

#### 3-06206A01 Stylus, Nylon, Black (3 pk)

- Durable black nylon stylus
- Soft tip to protect touchscreen

### Service Banners

#### EAZ0077L41A Shop Banner, 8 x 2', VERUS® Edge

- 8 x 2' VERUS® Edge shop banner

#### EAZ0118L11A Shop Banner, 8 x 2', ZEUS®

Accessories shown on this page are intended to be used on the following Snap-on® Diagnostic Platforms: ZEUS®/VERUS® Edge/VERUS® PRO

SOLUS Ultra®



EAC0111L40A3



EAX0068L26A



EAK0313L05A



EAK0301B10A



EAK0301B07C



2-04650A

SOLUS Ultra® Accessories

**EAC0111L40A3 Screen Guards, SOLUS Ultra®**

- Includes (3) removable screen protector sheets
- Custom fit for the SOLUS Ultra® screen
- Easy peel-and-stick application
- Simply peel off the old protector sheet and press on a new one
- Helps keep the SOLUS Ultra® touchscreen clean and protected
- Helps maintain touch screen sensitivity
- Protects the screen from scratches, solvents and dirt
- Crystal-clear protection for optimum viewing inside the shop or outside in the sun

**EAX0068L26A OBD-II Data Cable with LED Light, 9'**

- Extended-length 9' scan data cable for increased mobility all around the vehicle while connected
- Built-in LED light makes it easy to find the vehicle data connector in a dark footwell
- No batteries needed—powered by the scan tool
- LED light is activated by a handy, momentary “On” push-button switch on the side of the connector
- Compatible with ETHOS®, SOLUS™ and MODIS™ Series diagnostic tools
- UL®/cUL listed

**EAK0313L05A Tote Case, Compact**

- Provides protection and portability in the shop or on the road
- Compact 14 x 11 x 3” size holds a diagnostic tool and some accessories
- Reinforced semi-rigid case with padded sides for protection of valuable diagnostic tools
- Tough polyester fabric with hook-and-loop straps inside to secure tools and accessories
- Bold embroidered Snap-on® logo promotes Snap-on® quality tools
- Elastic net compartment for small accessories
- Zippered on three sides so the case opens flat for easy access
- Sturdy sewn-in handle with a molded comfort grip
- Accommodates MODIS™ Series, SOLUS™ Series, VANTAGE® Series, ETHOS® Series

**EAK0301B10A Scan Adaptor Set, OBD-I, Pre-1996**

- OBD-I scan adaptor master kit for pre-1996 US and Asian vehicles
- Complete adaptor set of all available Snap-on® OBD-I adaptors for 1980–newer US and 1983–newer Asian vehicles
- Takes advantage of the OBD-I scanner coverage built into the diagnostic tool
- Kit includes a custom-molded organizer tray and data cable convertor, jumper lead set, ground lead, 12 V DC adaptor and (17) OBD-I adaptors for: Multi-1, Multi-2, Kia® 2, Ford® 1B, Ford® 4, GM® 1, Toyota® 1, Toyota® 2, Nissan® 1, Nissan® 2, Mazda® 1, Honda® 1, Mitsubishi® 1, Chrysler® 1, Chrysler® 2, Jeep® 1 and Hyundai® 2
- UL® and cUL listed

**EAK0301B07C European Vehicle Keys and Adaptors Kit**

- **EESP318E Software Activation Kit**
- Comprehensive OEM-specific coverage for servicing European makes
- Covers fault codes, live data parameters, functional tests, relearns and adaptations for dozens of vehicle systems
- Coverage for Audi®, BMW®, Fiat®, Jaguar®, Land Rover®, Mercedes®, MINI®, Porsche®, SMART®, Volvo® and Volkswagen® vehicles as far back as 1992
- Also requires the EAK0301B07B European Adaptor Kit

**2-04650A Battery Pack**

**2-60666A Power Supply**



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

**SOLUS™ Edge ACCESSORIES****SOLUS™ Edge****EAK0301B07C****SOLUS Edge™ Accessories****EAC0111L76A3 Display Protectors****EAX0068L26A OBD-II Data Cable with LED Light, 9'****EAK0301B07C European Vehicle Keys and Adaptors Kit****EAK0301B10A Scan Adaptor Set, OBD-I, Pre-1996****EAZ0083L08A Shop Banner, 8 x 2', SOLUS Edge™****Scan Tool Accessories****EAK0301B10A Scan Adaptor Set, OBD-I, Pre-1996**

- OBD-I scan adaptor master kit for pre-1996 US and Asian vehicles
- Complete adaptor set of all available Snap-on® OBD-I adaptors for 1980–newer US and 1983–newer Asian vehicles
- Takes advantage of the OBD-I scanner coverage built into the diagnostic tool
- Kit includes a custom-molded organizer tray and data cable convertor, jumper lead set, ground lead, 12 V DC adaptor and (17) OBD-I adaptors for: Multi-1, Multi-2, Kia® 2, Ford® 1B, Ford® 4, GM® 1, Toyota® 1, Toyota® 2, Nissan® 1, Nissan® 2, Mazda® 1, Honda® 1, Mitsubishi® 1, Chrysler® 1, Chrysler® 2, Jeep® 1 and Hyundai® 2
- UL® and cUL listed

**EAK0301B07C European Vehicle Keys and Adaptors Kit**

- For use with all Snap-on® scan tools

# TRITON-D8®/MODIS™ Edge/MODIS™ Ultra ACCESSORIES

MODIS™ Edge

MODIS™ Ultra



EAC0111L76A3



EAC0056L02A



EAK0301B10A



EAK0312L19A



EAK0313L05A



EAX0068L00C



EETA308D

## MODIS™ Edge and MODIS™ Ultra Accessories

### EAA0355L93A Data Cable Converter, Adaptor J1962 to DB15M

- For ETHOS®, MODIS™, SOLUS™ Series, VERDICT®, VERUS® PRO and VERUS® Edge

### EAK0301B07C European Vehicle Keys and Adaptors Kit

### EAK0301B06B European Vehicle Personality Key Kit

### EAC0056L02A Pickup, 3-Flag,

### Generic COP/CIC Adaptor

### EAC0118L46A Hard Shell Carry Case

- Fits SOLUS Edge™, MODIS™ Edge, APOLLO D-8™, TRITON D-8®

### 2-04650A Battery Pack-MODIS® Ultra

### 2-06250A Battery Pack

### 2-09542A1 Test Probe Scope Black

### 2-09542A2 Test Probe Scope Red

### 2-60666A Power Supply

### EAX0066L05B USB Interface Cable

### EAK0301B10A Scan Adaptor Set, OBD-I, Pre-1996

### EAK0312L19A Carry Case, Padded

### EAK0313L05A Tote Case, Compact

### EAX0024B10A Pressure

### Transducer Cable

### EAX0024B30A Pressure

### Transducer Extension Cable, 6'

### EAX0068L00C OBD-II Data Cable

### EAX0068L01A OBD-I Data Cable

### EEMS324PSA Adaptor,

### Pressure Transducer

### EEPV302AL Pressure Transducer with Cable, 0–100 PSI

### EEPV302AT Pressure Transducer with Cable, 0–500 PSI

### EEPV302AH Pressure Transducer with Cable, 0–5,000 PSI

### EETA108B Test Lead Set, Extra Long

### EETA308D Precision Low Amp Probe

### EETA309A05A Secondary Coil Adaptor Lead

### EAC0111L76A3 Display Protectors

- Includes (3) screen protector sheets
- Custom fit for the MODIS™ Series and SOLUS Edge™ screens
- Easy peel-and-stick application
- Simple to replace; peel off the old sheet and press on a new one
- Keeps screen clean and protected
- Helps maintain touchscreen sensitivity
- Protects screen from scratches, solvents, dirt, for a clear view
- Crystal-clear protection for optimum viewing in the shop or in the sun



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

# ETHOS®+/ETHOS® PRO/ETHOS® Edge ACCESSORIES

## ETHOS®+



EAC0110L35A3



EAK0301B10A

## ETHOS® PRO



EAK0301B07C



EAK0347L01A

## ETHOS® Edge



EAK0312L19A



EAX0068L26A

### ETHOS®+, ETHOS® PRO, ETHOS® Edge

#### EAC0110L35A3 Display Protectors

- Includes (3) screen protector sheets
- Custom fit for the screen on the ETHOS® Series
- Easy peel-and-stick application
- Simple to replace; peel off the old sheet, press on a new one
- Keeps screen clean and protected from scratches, solvents and dirt for a clear view
- Helps maintain touchscreen sensitivity
- Crystal-clear protection for optimum viewing in the shop

#### EAK0301B07C European Vehicle Keys and Adaptors Kit

- For use with all Snap-on® scan tools

#### EAK0301B06B European Vehicle Personality Key Kit

#### EAK0301B10A Scan Adaptor Set, OBD-I, Pre-1996

- OBD-I scan adaptor master kit for pre-1996 US and Asian vehicles
- Complete adaptor set of all available Snap-on® OBD-I adaptors for 1980–newer US and 1983–newer Asian vehicles
- Takes advantage of the OBD-I scanner coverage built into the diagnostic tool
- Kit includes a custom-molded organizer tray and data cable convertor, jumper lead set, ground lead, 12 V DC adaptor and (17) OBD-I adaptors for: Multi-1, Multi-2, Kia® 2, Ford® 1B, Ford® 4, GM® 1, Toyota® 1, Toyota® 2, Nissan® 1, Nissan® 2, Mazda® 1, Honda® 1, Mitsubishi® 1, Chrysler® 1, Chrysler® 2, Jeep® 1 and Hyundai® 2
- UL® and cUL listed

#### EAK0347L01A Smart Vehicle Interface for Harley-Davidson®

- Smart Vehicle Interface connects to Harley-Davidson® motorcycles—provides vehicle connection and activates software coverage
- Comprehensive coverage for all major systems on 2000–newer motorcycles, including engine, ABS, hands-free security, turn signal security, hand control module, body controls, instrument, speedometer, tachometer and more
- Read and clear OEM-specific fault codes, perform One-Touch Code Scan for all available systems and powerful functional tests to verify repairs, and display live data in digital and graphing views

- Includes both 4-pin and 6-pin standard connectors for Harley-Davidson® motorcycles
- Compatible with any Snap-on® diagnostic platform (except SOLUS PRO™) with upgrade 17.2 or newer
- Verify component operation with a wide range of functional tests: throttle position, cruise control, idle speed, bleed brakes, ABS, fuel pump, reset PIN, key reprogram, side car, gauges and more
- Handy support hook helps keep the Smart Interface safe from hot pipes and moving parts
- Includes Smart Vehicle Interface with 4-pin and 6-pin connectors, dust caps, support hook, 12 V DC power connector and a nylon case

#### EAK0312L19A Carry Case, Padded

- Provides protection and portability in the shop or on the road
- Reinforced semi-rigid nylon case with padded sides for protection of valuable diagnostic tools
- Three padded compartments for Snap-on® diagnostic tools and two elastic net compartments for accessories
- Zippered on three sides so the case opens flat for easy access
- Generous 14 x 19 x 4" size holds a diagnostic tool and many accessories
- Sturdy sewn-in handle and embroidered Snap-on® logo
- Accommodates VERUS™ PRO, VERDICT®, MODIS™ Series, SOLUS™ Series, ETHOS® Series and VANTAGE® Series tools

#### EAX0068L26A OBD-II Data Cable with LED Light, 9'

- Extended-length 9' scan data cable for increased mobility all around the vehicle while connected
- Built-in LED light makes it easy to find the vehicle data connector in a dark footwell
- No batteries needed—powered by the scan tool
- LED light is activated by a handy, momentary "On" push-button switch on the side of the connector
- Compatible with ETHOS®, SOLUS™ and MODIS™ Series diagnostic tools
- UL®/cUL listed



**Coil-In-Cap (CIC) Ignition Coil Adaptors****EETM306A05 CIC-2 Ignition Pickup**

- The kV Module CIC-2 adaptor is designed to work with most Toyota® and some Honda® Coil-In-Cap systems

**EETM306A06 CIC-1c Ignition Pickup**

- kV Module HEI Adaptor CIC-1 Adaptor is designed to work with General Motors® HEI Coil-In-Cap systems



EETM306A05

**Coil-On-Plug (COP) Ignition Coil Adaptors****EETM306A03 Adaptor, Ignition Coil, Ford® (COP-1)**

- Fits 1996–2000 Taurus® SHO 3.4 L; 1997–2000 E- and F-Series with 5.4 L and 6.8 L engines; 1998 Mark VIII® with a 4.6 L engine; 1998–2000 Crown Victoria®, Grand Marquis®, Town Car® and 1999–2000 Mustang®

**EETM306A04 Adaptor, Ignition Coil, Chrysler® (COP-2)**

- Fits 1998–2000 Concord®, LHS®, and 300M with 2.7 L, 3.2 L and 3.5 L engines; 1998–2000 Intrepid® with 2.7 L and 3.2 L engines; and 1998–2000 Prowler® with a 3.5 L engine

**EETM306A08 Adaptor, Ignition Coil, Acura®/Honda®/Isuzu® (COP-4)**

- Fits 1996–1999 Acura® SLX and Honda® Passport® and 1997–1999 Isuzu® Amigo, Rodeo® and Trooper; can also be used on the front cylinder bank of 1994–1999 Nissan® Maxima® with a 3.0 L engine

**EETM306A09 Adaptor, Ignition Coil, Volvo®/BMW® (COP-5)**

- Fits 1992–1997 Volvo® 960; 1998 Volvo® S90 and V90; and 1999–2000 Volvo® S70, V70, S80 and V80; also fits BMW® models with 11-860 Series Breml coils, 0040100002 Series Beru coils and 0221504004 Series Bosch® coils

**EETM306A10 Adaptor, Ignition Coil, Mercedes-Benz® (COP-6)**

- Fits 1996–1999 S600, SL600, and CL600 models with an M120 engine; and 1996–1997 E420, S420, S500 and SL500 with an M119 engine

**EETM306A11 Adaptor, Ignition Coil, Mercedes-Benz® Dual (COP-7)**

- Fits 1998–2000 Mercedes-Benz® models with the M112 and M113 engines

**EETM306A12 Adaptor, Ignition Coil, BMW® (COP-8)**

- Fits all BMW® vehicles with Breml 11-852 and 11-856 series coils, and all BMW® vehicles with Zundspule coils

**EETM306A13 Adaptor, Ignition Coil, Lexus® (COP-9)**

- Fits 1998–2001 GS400/LS400 models with a 1UZ-FE engine, 1998–2001 LX470 models with a 2UZ-FE engine and all other models equipped with Lexus® coil part number 90919-02228

**EETM306A14 Adaptor, Ignition Coil, Chrysler®/Jeep®/Lexus®/Toyota® (COP-11)**

- For use on Chrysler®, Jeep®, Lexus® and Toyota® vehicles



EETM306A03



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

## SERVICE BANNERS



EAZ0083L08A



EAZ0042B17A

### Service Banners

- Shows your customers that the shop is well equipped with the latest diagnostic and information technology to do the job right the first time
- Big, bright, full-color 8' L x 2' H shop banner
- Durable, heavy 15 oz ultra-flex vinyl with reinforced grommets for easy hanging

- EAZ0042B17A Shop Banner, 8 x 2', ShopKey®
- EAZ0118L11A Shop Banner, 8 x 2', ZEUS®
- EAZ0125L11A Shop Banner, 8 x 2', APOLLO-D8™
- EAZ0077L41A Shop Banner, 8 x 2', VERUS® Edge
- EAZ0083L08A Shop Banner, 8 x 2', SOLUS Edge™
- SS3292 Tire Service Shop Banner
- SS3293 TPMS Shop Banner

### SCOPE AND METER ACCESSORIES:

### ZEUS®/VERUS® Edge/VERUS® PRO/VERDICT®/ TRITON-D8®/MODIS™ Edge/VANTAGE® Ultra



EEPV302AT



EAX0024B40A



EAX0024B30A



EEMS324PSA

### Pressure Transducers Kits

#### EEPV302AH Pressure Transducer with Cable, 0–5,000 PSI

- Typical applications include ABS, PS, transmissions, hydraulics and fuel systems
- ZEUS®, VERUS® Edge and VERUS® PRO require EEMS301A05
- TRITON-D8®/MODIS™ Ultra/MODIS Edge™/VANTAGE® Ultra require EEMS324PSA

#### EEPV302AL Pressure Transducer with Cable, 0–100 PSI

- Keep MODIS™ on duty all day long with a spare high-energy NiMH battery charged and ready to go
- Typical applications include ABS, PS, transmissions, hydraulics and fuel systems
- ZEUS®, VERUS® Edge, and VERUS® PRO require EEMS301A05
- TRITON-D8®/MODIS™ Ultra/MODIS Edge™/VANTAGE® Ultra require EEMS324PSA
- VERDICT®/MODIS™ Ultra/MODIS™ Edge and VANTAGE® Ultra require EEMS324PSA

#### EEPV302AT Pressure Transducer with Cable, 0–500 PSI

- 0–5,000 PSI
- Typical applications include ABS, PS, transmissions, hydraulics and fuel systems
- ZEUS®, VERUS® Edge, and VERUS® PRO require EEMS301A05
- TRITON-D8®, MODIS™ Ultra, MODIS Edge™ and VANTAGE® Ultra require EEMS324PSA

#### EAX0024B30A Pressure Transducer Extension Cable, 6'

- Allows operation of the meter from the driver's seat during road testing
- 6' length

#### EAX0024B40A Transducer Y Adaptor Cable

- Permits simultaneous connection of two transducers for multiple tests

#### EEMS324PSA Adaptor, Pressure Transducer

- Adapts standard meter jacks to EEPV302AL, EEPV302AT and EEPV302AH pressure transducers (not included)
  - Provides connection of a transducer plug to standard meter jacks and provides power to the pressure transducers
  - Use up to two transducers simultaneously
  - View results on VANTAGE® and Triton-D8® test meters
- #### EEMS301A05 Split Lead Adaptor
- Adapts standard meter jacks to EEPV302AL, EEPV302AT and EEPV302AH pressure transducers (not included)
  - Provides connection of a transducer plug to standard meter jacks and provides power to the pressure transducers
  - Use up to two transducers simultaneously
  - View results on ZEUS® and VERUS® test meters
  - Connection for RPM lead

## SCOPE AND METER ACCESSORIES: ZEUS®/VERUS® Edge/VERUS® PRO/VERDICT®/ TRITON-D8®/MODIS™ Edge/VANTAGE® Ultra



EETA108B

### Scope Leads

#### EETA108B Test Lead Set, Extra Long

- 10' leads extend the reach of meter leads for testing hard-to-reach components
- Shielded leads block radio frequency interference (RFI)



EESX306A

### WaveForm Demonstration Tool

#### EESX306A Generator, Diagnostic Waveform

- Versatile scope training/demo tool
- Use with any scope
- Simulates good waveforms, bad waveforms and glitches
- Square wave, variable duty, FI pattern, AC signal and secondary ignition pattern
- Adjustable frequency, voltage, RPM and amplitude

#### EESX306SC Scanner Demonstration Tool

#### EESX306SP Scope Demonstration Tool

#### EESX310 WaveForm Demonstration Tool

### Scanner Adaptors

#### EAA0355L10A GM®-1 Adaptor

#### EAA0355L20C Ford®-1A Adaptor

#### EAA0355L30A Chrysler®-1 Adaptor

#### EAA0355L31A Chrysler®-2 Adaptor

#### EAA0355L40A Nissan®-1 Adaptor

#### EAA0355L42A Multi-2 Import Adaptor

#### EAA0355L49A Jeep®-1 Adaptor

#### EAA0355L50A Toyota®-1 Adaptor

#### EAA0355L51A Hyundai®-2 Adaptor

#### EAA0355L52A Toyota®-2 Adaptor

#### EAA0355L53A Mazda®-1 Adaptor

#### EAA0355L55A Mitsubishi®-1 Adaptor

#### EAA0355L56A VW®-1 Adaptor

#### EAA0355L58A Nissan®-2 Adaptor

#### EAA0355L62A Mercedes-Benz® Adaptor

#### EAA0355L70A Ford®-4 Adaptor

#### EAA0355L74A BMW® Adaptor

#### EAA0355L75A MB-2A Adaptor

#### EAA0355L77A Honda®-1 Adaptor

#### EAA0355L90B Multi-1 Universal Adaptor

#### EAX0066L41A Ground Leads

#### EAX0066L43A Adaptor Wire Terminal Kit

### Scan Tool Accessories

#### EAK0347L01A Smart Vehicle Interface for Harley-Davidson®

- Smart Vehicle Interface connects to Harley-Davidson® motorcycles—provides vehicle connection and activates software coverage
- Comprehensive coverage for all major systems on 2000–newer motorcycles, including engine, ABS, hands-free security, turn signal security, hand control module, body controls, instrument, speedometer, tachometer and more
- Read and clear OEM-specific fault codes, perform One-Touch Code Scan for all available systems and powerful functional tests to verify repairs, and display live data in digital and graphing views
- Includes both 4-pin and 6-pin standard connectors for Harley-Davidson® motorcycles
- Compatible with any Snap-on® diagnostic platform (except SOLUS PRO™) with upgrade 17.2 or newer
- Verify component operation with a wide range of functional tests: throttle position, cruise control, idle speed, bleed brakes, ABS, fuel pump, reset PIN, key reprogram, side car, gauges and more
- Handy support hook helps keep the Smart Interface safe from hot pipes and moving parts
- Includes Smart Vehicle Interface with 4-pin and 6-pin connectors, dust caps, support hook, 12 V DC power connector and a nylon case



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

## SCOPE AND METER ACCESSORIES: VERUS® PRO/VERUS® Edge/VERDICT®/ MODIS™ Ultra/MODIS™ Edge/VANTAGE® Ultra



EAK0301B10A



EETM303A05A

### Scan Tool Accessories

#### EAK0288B04B OBD-I Domestic/Asian Vehicle Adaptor Kit 1

- For US and Asian applications
- Includes the following communication adaptors: Chrysler® 1, Chrysler® 2, Jeep® 1, Import Multi 2, Hyundai® 2, ground leads and jumper leads
- Fits VERUS®, VERUS® Wireless, VERDICT®, SOLUS PRO™, SOLUS Ultra®, MODIS™ and ETHOS® diagnostic units

#### EAK0301B07C VERUS® Series European Vehicle Keys and Adaptors Kit

- For use with all VERUS® Snap-on® scan tools

#### EAK0301B10A Scan Adaptor Set, OBD-I, Pre-1996

- OBD-I scan adaptor master kit for pre-1996 US and Asian vehicles
- Complete adaptor set of all available Snap-on® OBD-I adaptors for 1980–newer US and 1983–newer Asian vehicles
- Takes advantage of the OBD-I scanner coverage built into the diagnostic tool
- Kit includes a custom-molded organizer tray and data cable converter, jumper lead set, ground lead, 12 V DC adaptor and (17) OBD-I adaptors for: Multi-1, Multi-2, Kia® 2, Ford® 1B, Ford® 4, GM® 1, Toyota® 1, Toyota® 2, Nissan® 1, Nissan® 2, Mazda® 1, Honda® 1, Mitsubishi® 1, Chrysler® 1, Chrysler® 2, Jeep® 1 and Hyundai® 2
- UL® and cUL listed

#### EAX0066L04B Power Cable, Battery Clip, 12 V

- Provides 12 V power from battery terminals for diagnostic scan tool platform

#### EAX0066L07A Power Cable, Battery Clip, 12 V

- Provides 12 V power from battery clips or 12 V charger connector

#### EAX0066L10B Power Cable, Power Outlet Plug, 12 V

- 12 V lighter power cable for diagnostic scan tool platform

#### EAX0066L50A Replacement Data Cable

- Use for connection between a scan tool and vehicle adaptors
- For VERUS®, MODIS™ and SOLUS PRO™ diagnostic units only

#### EAX0068L00C OBD-II Data Cable

- Fits VERUS® PRO, VERUS® Wireless, VERDICT®, MODIS™ Ultra, SOLUS Ultra® and SOLUS Edge™ scan tools

#### EAX0068L01A OBD-I Data Cable

- Fits VERUS® PRO, VERUS® Wireless, VERDICT®, MODIS™ Ultra, SOLUS Ultra® and SOLUS Edge™ diagnostic units

#### EAX0068L26A OBD-II Data Cable with LED Light, 9'

- Extended-length 9' scan data cable for increased mobility all around the vehicle while connected
- Built-in LED light makes it easy to find the vehicle data connector in a dark footwell
- No batteries needed—powered by the scan tool
- LED light is activated by a handy, momentary “On” push-button switch on the side of the connector
- Compatible with ETHOS®, SOLUS™ and MODIS™ Series diagnostic tools
- UL®/cUL listed

#### EETA309A05A Secondary Coil Adaptor Lead

- Connects to the optional secondary adaptors to display secondary waveforms

#### EETM303A05A Inductive RPM Pickup

- Connects to the DB9F connector (AUX)
- Use to trigger a waveform or view RPM

#### EETM306A02 Secondary Ignition Clip-On Wire Adaptor

- Connects the optional Secondary Coil Adaptor Lead to the vehicle's secondary wire
- Use to view an ignition pattern

## Probes and Adaptors

### EETA308D Precision Low Amp Probe

- Hall effect technology gives accurate, non-intrusive circuit testing
- Performs precision testing of parasitic draw, injectors, pumps, relays and more
- Spring clamp operation can test wires up to 1/2" dia
- Scale ranges: 20 and 60 A
- Resolution: +/- 1 mA
- Internally powered by a 9 V battery



EETA308D

### EEMS301A05 Split Lead Adaptor

- Adapts standard meter jacks to EEPV302AL, EEPV302AT and EEPV302AH pressure transducers (not included)
- Provides connection of a transducer plug to standard meter jacks and provides power to the pressure transducers
- Use up to two transducers simultaneously
- View results on ZEUS® and VERUS® test meters
- Connection for RPM lead



EEMS301A05

## Test Leads

- Shielded, soft, flexible leads for meter and scope measurement
- Stackable, right angle ground plug is attached

### 6-03022A Channel 1 Yellow/Black Lead

- Channel 1 (yellow)

### 6-03122A Channel 1 Green/Black Lead

- Channel 2 (green)

### 6-03222A Channel 1 Blue Lead

- Channel 3 (blue)

### 6-03322A Channel 1 Red Lead

- Channel 4 (red)



6-03022A



6-03122A

## Alligator Clips

- Spring loaded clips provide secure, insulated connection for meter and scope measurements

### 2-06433A1 Alligator Clip, Black

### 2-06433A2 Alligator Clip, Red

### 2-06433A3 Alligator Clip, Blue

### 2-06433A4 Alligator Clip, Yellow

### 2-06433A5 Alligator Clip, Green

## Adaptors and Pickups

### MTTL430 Backprobe Adaptors (3 pack)

- Bendable stainless steel tips for easy insertion into terminal connectors
- Three ID boot colors for quick circuit identification
- Premium component construction-stainless steel tips, high-temperature composite and boot materials for a long, reliable life
- Textured composite body for a good grip
- Recessed loop ends for a fast and reliable connection using alligator clips, grabbers or hook connections
- Removable boots enable custom color selections or restoring color to tired and dirty used boots with the MTTLBOOTS multi-pack of boots
- Portable storage strip holds all three probes



MTTL430

Accessories shown on this page can be used on the following Snap-on® Diagnostic Platforms: VERUS®/VERUS® Wireless/VERUS® PRO/VERUS® Edge/ZEUS®/VERDICT®/MODIS™ Ultra/MODIS™ Edge/VANTAGE® PRO/VANTAGE® Ultra.



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

## SCOPE AND METER ACCESSORIES

### Multi-Cylinder Secondary Ignition Scope Adaptors

Exclusive kV ignition adaptors make for easy connection and testing of secondary ignition on coil-on-plug (COP) and coil-in-cap (CIC) systems. Custom fit to vehicle ignition systems. Requires EAK0294B09A ignition scope lead kit.



EAC0056L00A



EAC0056L02A



EAC0056L03A

#### EAC0056L00A Pickup, 1-Flag, Generic COP/CIC Adaptor

- Use with 3-flag pick up for 4-cylinder engines or use two with two 3-flag pickups for V8 engines
- Single-cylinder pickup

#### EAC0056L02A Pickup, 3-Flag, Generic COP/CIC Adaptor

- Use two for 6-cylinder engines

#### EAC0056L03A Pickup, Stick, Generic COP/CIC Adaptor

- Use with straight 4-cylinder engines
- Three-cylinder pickup
- Use two for V6 engines or use two with single-cylinder pickup for V8 engines

#### EAC0056L01A 2-Flag Pickup



EETA309A15

### Secondary Ignition Adaptors

#### EETA309A15 Secondary Ignition, SIA2000™ Adaptor

- Distributorless ignition kit for waste spark and direct ignition systems
- Displays and labels cylinder firings in series across one channel for direct ignition and two channels for waste spark systems
- Direct ignition systems also require optional ignition coil adaptors



EAK0294B09A

#### EAK0294B09A Ignition Lead Kit

- For multi-cylinder secondary ignition testing
  - Includes an inductive RPM pickup trigger, coil adaptor lead and secondary kV clip-on probe
  - Ideal for distributor systems and for COP/CIC systems
- 2-12203A RCA Gender Adaptor**

Accessories shown on this page can be used on the following Snap-on® Diagnostic Platforms: VERUS®/VERUS® Wireless/VERUS® PRO/VERUS® Edge/ZEUS®/VERDICT®/MODIS™ Ultra/MODIS™ Edge/VANTAGE® PRO/VANTAGE® Ultra



EAC0056L00A

## Scope Accessories

### EAC0056L00A Pickup, 1-Flag, Generic COP/CIC Adaptor

- Use with 3-flag pick up for 4-cylinder engines or use two with two 3-flag pickups for V8 engines
- Single-cylinder pickup

### EAC0056L02A Pickup, 3-Flag, Generic COP/CIC Adaptor

- Use two for 6-cylinder engines

### EAC0056L03A Pickup, Stick, Generic COP/CIC Adaptor

- Use with straight 4-cylinder engines
- Three-cylinder pickup
- Use two for V6 engines or use two with single-cylinder pickup for V8 engines

### EETM306A03 Adaptor, Ignition Coil, Ford® (COP-1)

- Fits 1996–2000 Taurus® SHO 3.4 L; 1997–2000 E- and F-Series with 5.4 L and 6.8 L engines; 1998 Mark VIII® with a 4.6 L engine; 1998–2000 Crown Victoria®, Grand Marquis®, Town Car® and 1999–2000 Mustang®

### EETM306A04 Adaptor, Ignition Coil, Chrysler® (COP-2)

- Fits 1998–2000 Concord®, LHS®, and 300M with 2.7 L, 3.2 L and 3.5 L engines; 1998–2000 Intrepid® with 2.7 L and 3.2 L engines; and 1998–2000 Prowler® with a 3.5 L engine

### EETM306A05 CIC-2 Ignition Pickup

- The kV Module CIC-2 adaptor is designed to work with most Toyota® and some Honda® Coil-In-Cap systems

### EETM306A06 CIC-1c Ignition Pickup

- kV Module HEI Adaptor CIC-1 Adaptor is designed to work with General Motors® HEI Coil-In-Cap systems

### EETM306A08 Adaptor, Ignition Coil, Acura®/Honda®/Isuzu® (COP-4)

- Fits 1996–1999 Acura® SLX and Honda® Passport® and 1997–1999 Isuzu® Amigo, Rodeo® and Trooper; can also be used on the front cylinder bank of 1994–1999 Nissan® Maxima® with a 3.0 L engine

### EETM306A09 Adaptor, Ignition Coil, Volvo®/BMW® (COP-5)

- Fits 1992–1997 Volvo® 960; 1998 Volvo® S90 and V90; and 1999–2000 Volvo® S70, V70, S80 and V80; also fits BMW® models with 11-860 Series Breml coils, 0040100002 Series Beru coils and 0221504004 Series Bosch® coils

### EETM306A10 Adaptor, Ignition Coil, Mercedes-Benz® (COP-6)

- Fits 1996–1999 S600, SL600, and CL600 models with an M120 engine; and 1996–1997 E420, S420, S500 and SL500 with an M119 engine

### EETM306A11 Adaptor, Ignition Coil, Mercedes-Benz® Dual (COP-7)

- Fits 1998–2000 Mercedes-Benz® models with the M112 and M113 engines

### EETM306A12 Adaptor, Ignition Coil, BMW® (COP-8)

- Fits all BMW® vehicles with Breml 11-852 and 11-856 series coils, and all BMW® vehicles with Zundspule coils

### EETM306A13 Adaptor, Ignition Coil, Lexus® (COP-9)

- Fits 1998–2001 GS400/LS400 models with a 1UZ-FE engine, 1998–2001 LX470 models with a 2UZ-FE engine and all other models equipped with Lexus® coil part number 90919-02228

### EETM306A14 Adaptor, Ignition Coil, Chrysler®/Jeep®/Lexus®/Toyota® (COP-11)

- For use on Chrysler®, Jeep®, Lexus® and Toyota® vehicles

Accessories shown on this page can be used on the following Snap-on® Diagnostic Platforms: VERUS®/VERUS® Wireless/VERUS® PRO/VERUS® Edge/ZEUS®/VERDICT®/MODIS™ Ultra/MODIS™ Edge/VANTAGE® PRO/VANTAGE® Ultra/VANTAGE® Legend



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

## GAS ANALYZERS



HHGA5CP



HHGA5C



HHGA-8



HHGA-PRINTER



HHGA-9

## Handheld Gas Analyzers

- Portable handheld 5 gas analyzer for use in the bay or a road test
- For use on gasoline, LPG and CNG vehicles; ideal for emissions pre-compliance testing, vehicle servicing and diagnostic work
- Great for measuring and adjusting the perfect air-fuel ratio on pre-OBD vehicles, including hot rods, muscle cars, collector vehicles and race cars

**HHGA5CP ‡ Handheld Gas Analyzer Kit with Printer (5 Gas)**

- Measures exhaust emissions for CO, CO<sub>2</sub>, O<sub>2</sub>, HC, NO<sub>x</sub> and AFR/Lambda
- New, six-line illuminated display allows user to view all exhaust emission readings simultaneously
- Provides an instant assessment of an engine vehicle exhaust and catalytic converter
- Bluetooth®-enabled feature links to ZEUS®, VERUS®, VERUS® PRO, and VERUS® Edge; plus Bluetooth®-enabled PC combines gas analysis with other vehicle data for effective diagnostics "in real time"
- Gas analyzer views gas analysis data at the same time as other data including component tests, scope readings, digital graphing function, scanner results, view, graph, save and recall data
- Monitors and reduces vehicle emissions, protects the environment, improves drivability and fuel efficiency
- Unit is very sensitive and pulls only 1/14 the exhaust volume of competing analyzers, eliminating water ingress problems, plus pumps last longer
- Ability to print results using the infrared printer
- Add the optional motorcycle probe HHGA-8 to test bikes
- Service is handled at Crystal Lake Northern Repair for Annual Calibration and O<sub>2</sub> sensor replacement, meeting required industry standard
- Convenient hard shell carry case protects the instrument
- Technical support: 1-888-633-6852 (6am–12pm CST)

**HHGA5C ‡ Handheld Gas Analyzer (5 Gas)****HHGA-PRINTER Infrared Printer**

- Infrared printer for HHGA Series gas analyzers

**HHGA-8 Motorcycle Exhaust Probe**

- Optional motorcycle exhaust probe for HHGA Series gas analyzers

**HHGA-9 5 Gas Exhaust Probe**

- 5 gas exhaust probe for HHGA Series gas analyzers (included with both sets)
- High-temperature stainless steel probe
- Ideal for road testing when measuring NO<sub>x</sub>

**HHGA-PB Storage Case**

- Hard Shell carry case included with the HHGA5CP

**HHGA5A-SP Soft Pouch**

- Soft storage pouch included with the HHGA5C

HEAVY DUTY TECH SUPPORT 800-311-5452



## Diagnostic Workcenter Covers

- Custom-fit nylon cover for Diagnostic Centers
- Keeps diagnostic center clean and well protected
- Provides protection from dirt, grease, solvents and other shop environmental hazards
- Covers the complete workstation and standard 27" monitor
- Big bold Snap-on® "S" logo in your choice of red or silver
- Reinforced piping in red accent color for high-end appearance and extra strength at seams
- High-quality 200 Denier® nylon for sturdy protection
- Heavy-duty nylon zippers at front for easy installation and removal

### KACSC345RD Nylon Cover for EEHD345 Heavy-Duty, EEWS342 and EWS330 Series

- Custom-fit nylon cover for EEHD345 Heavy-Duty/EEWS342/EEWS330 Diagnostic Workcenters
- Black with Red Logo

### KACSC345SV Nylon Cover for EEHD345 Heavy-Duty, EEWS342 and EWS330 Series

- Custom-fit nylon cover for EEHD345 Heavy-Duty/EEWS342/EEWS330 Diagnostic Workcenters
- Black with Silver Logo

### KACSC361BK Nylon Cover for EPIQ Diagnostic Workcenters

- Custom-fit nylon cover for your EEWS342 ZEUS® and EEWS330 VERUS® Edge Diagnostic Workcenters
- Black

### KACSC361RD Nylon Cover for EPIQ Diagnostic Workcenters

- Custom-fit nylon cover for your EEWS342 ZEUS® and EEWS330 VERUS® Edge Diagnostic Workcenters
- Red Logo



KACSC345RD



KACSC345SV

## Scope Accessories

- Provides protection and portability in the shop or on the road
- Reinforced semi-rigid nylon case with padded sides for protection of valuable diagnostic tools
- Zippered on three sides so the case opens flat for easy access

### EAK0312L19A Carry Case, Padded

- Three padded compartments for Snap-on® diagnostic tools and two elastic net compartments for accessories
- Generous 14 x 19 x 4" size holds a diagnostic tool and many accessories
- Sturdy sewn-in handle and embroidered Snap-on® logo
- Accommodates VERUS® PRO, VERDICT®, MODIS™ Series, SOLUS™ Series, ETHOS® Series and VANTAGE® Series tools

### EAK0313L05A Tote Case, Compact

- Tough polyester fabric with hook-and-loop straps inside to secure tools and accessories
- Compact 14 x 11 x 3" size holds a diagnostic tool and some accessories
- Bold embroidered Snap-on® logo promotes Snap-on® quality tools
- Elastic net compartment for small accessories
- Sturdy sewn-in handle with a molded comfort grip
- Accommodates MODIS™ Series, SOLUS™ Series, VANTAGE® Series, ETHOS® Series

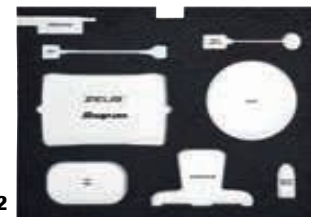


EAK0312L19A



EAK0313L05A

| Stock No.    | Fits Diagnostic Tools         | Fits Roll Carts |
|--------------|-------------------------------|-----------------|
| APOVANFOAM2  | APOLLO-D8™/VANTAGE® Ultra Set | KRSC246         |
| APOVANFOAM3  | APOLLO-D8™/VANTAGE® Ultra Set | KRSC 3-Series   |
| APOVANFOAM4  | APOLLO-D8™/VANTAGE® Ultra Set | KRSC 4-Series   |
| TRITONFOAM2  | TRITON-D8® Set                | KRSC246         |
| TRITONFOAM3  | TRITON-D8® Set                | KRSC 3-Series   |
| TRITONFOAM4  | TRITON-D8® Set                | KRSC 4-Series   |
| ZEUSFOAM2    | ZEUS® Set                     | KRSC246         |
| ZEUSFOAM3    | ZEUS® Set                     | KRSC 3-Series   |
| ZEUSFOAM4    | ZEUS® Set                     | KRSC 4-Series   |
| SOLVANEFOAM3 | SOLUS Edge™/VANTAGE® Ultra    | KRSC 3-Series   |
| SOLVANEFOAM4 | SOLUS Edge™/VANTAGE® Ultra    | KRSC 4-Series   |
| MODISEFOAM3  | MODIS™ Edge Set               | KRSC 3 Series   |
| MODISEFOAM4  | MODIS™ Edge Set               | KRSC 4-Series   |
| VERUSEFOAM3  | VERUS® Edge Set               | KRSC 3-Series   |
| VERUSEFOAM4  | VERUS® Edge Set               | KRSC 4-Series   |



ZEUSFOAM2

## Custom-Fit Foam Organizers

- Turn a tool cart into a high-power mobile workcenter
- Set of drawer organizers holds a diagnostic platform and all standard accessories, plus room for many optional accessories
- Drawer organizers fit 3-Series and 4-Series KRSC roll carts



- Do not use in atmosphere with explosive vapor
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

## SOFTWARE UPGRADES



### Diagnostic Software Upgrades – for VERUS®-series, VANTAGE®-series, MODIS™-series, SOLUS™-series and ETHOS®-series tools

- Continue to improve your productivity with regularly scheduled software upgrades from Snap-on® featuring updated coverage for new vehicles, expanded coverage for earlier models and the latest enhancements that add capabilities to your tool
- You will access thousands of new vehicle systems, trouble codes and live data parameters, as well as thousands of new experience-based troubleshooter tips, functional tests, adaptations and component tests for platforms with those functions
- For details on the latest software upgrade, see your Snap-on® representative

### European Vehicle Scan Tool Software Activation for VERUS®-series, MODIS™-series, SOLUS™-series, and ETHOS®-series tools

- Comprehensive OEM-specific coverage is critical for servicing European makes, from fault codes and data for dozens of vehicle systems, to functional tests, relearns and adaptations for vehicles with those features
- Coverage for vehicles Audi®, BMW®, FIAT®, Jaguar®, Land Rover®, MINI®, Mercedes®, Porsche®, SMART®, Volvo®, Volkswagen® as far back as 1992
- See your Snap-on® representative

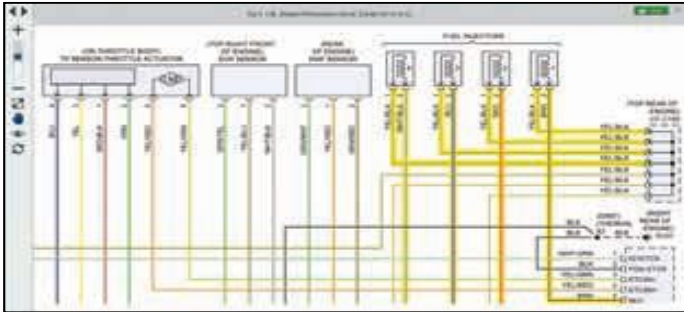


EETA113D

### Handheld Diagnostic Software

#### EETA113D Pass Thru Pro IV Reprogramming Device

- Certified SAE® J2534 pass-through device updates software/firmware in vehicle electronic control unit (ECU) with software directly from the OEMs
- Fix software-controlled drivability, emission issues and program new ECUs
- Program emission-related ECUs on any J2534-compliant vehicle (2004–newer) and other J2534 compliant controllers (at OEM dependent)
- Includes protocols for fault tolerant CAN, new CAN lines and access to additional late-model vehicle networks
- Includes programming interface, 6' USB PC-interface cable, 6' vehicle interface cable and instruction manual
- Additional requirements include a reflashing software application, data subscription from OEM and a PC with internet access
- Easier than ever—go to [www.snapon.com/diagnostics/us/Pass-Thru-Pro-IV](http://www.snapon.com/diagnostics/us/Pass-Thru-Pro-IV) for Pass Thru Pro IV firmware/driver updates
- The Pass Thru Pro IV vehicle interface connects to a PC (not included) through the USB connector and to the vehicle through the OBD-II connector; ECU reflashing software and update files are downloaded from the OEM website through the pass-through device into vehicle control unit
- NOTE: A stable vehicle power supply is critical to protect the vehicle ECU during programming—the Snap-on® EECS306C D-TAC™ Elite and the Snap-on® EEBC500A Battery Charger Plus™ are well suited to this purpose



Full-color wiring diagrams with circuit highlights and zoom feature clarify even the most complex circuits.



With a single lookup you get access to illustrated repair procedures, diagnostic information, expert tips, maintenance schedules, TSBs, wiring diagrams and component locators.

**ShopKey® Pro and Mitchell 1 TruckSeries provide technicians with complete repair information for class 1–8 vehicles including real-world information to diagnose and repair vehicles problems efficiently.**

**1Search Plus**

To improve your information lookup, 1Search Plus returns information in a unique graphical layout aligned with the way a technician thinks about diagnosis and repair. OEM and real-world information are fully integrated, reducing your navigation time. All results are returned in specific categories, leading you directly to the information you want and cutting out the clutter.

**Enhanced Wiring Diagrams**

Our enhanced wiring diagrams feature intelligent navigation that takes you directly to the specific diagram for the component you searched for, with traces automatically highlighted. It's faster and easier than ever to find the exact wiring diagram you need for an efficient and accurate diagnosis.

**ADAS – Driver Assist**

Diagnose, calibrate and repair vehicles equipped with Advanced Driver Assistance Systems (ADAS) features. Simply select a vehicle and click the Driver Assist (ADAS) Quick Link button, and you have immediate access to a table that consolidates all the ADAS information for the vehicle in a single location. You get the full picture of the ADAS features and components and can simply click to select the repair and calibration information you want.

**Latest TSBs**

Never miss a TSB! Access the most accurate and up-to-date database of TSBs available, most delivered within one month of publication by OEM.

**Quick Links**

Quickly navigate to the most popular content, including fluids, tire fitment, reset procedures, wiring diagrams, component tests and locations, DTCs and TSBs.

**SureTrack Real Fixes**

Find the fix with expert-based knowledge captured from over 600 million completed repairs and real world tips from professional technicians.

**Component Test Information**

Component operation, location, best test location, connector end views and test procedures provide all the information needed to verify the component is operating properly or failing.

**Community of Technicians**

You are likely not the first person to come across that difficult-to-diagnose code or symptom. Use the community as a collaborative tool to ask a question to automotive experts and receive answers (often in a few minutes) to help you move forward.

**Estimating Integrated with Manager™ SE**

Build accurate, profitable estimates quickly and easily with the only OEM repair information system integrated with the industry's most trusted shop management system.

**Integration with Snap-on® Diagnostic Tools**

Access ShopKey® Pro on your Snap-on® ZEUS®, VERDICT® or VERUS® series tool and have the information you need to get the job done, right at your fingertips.



• Do not use in atmosphere with explosive vapor  
• Read safety precautions on pages W1 to W4

## OBD-II SCAN TOOLS



EESC720

### MICROSCAN® OBD-II Scan Tool

#### EESC720 MICROSCAN® III (Blue-Point®) Global OBD-II Scan Tool

- Read and clear OBD-II codes and display live data parameters on 1996–newer vehicles in under 30 seconds
- Onboard code tips save repair time
- Read and clear ABS codes and enhanced engine codes on select GM®, Ford® and Chrysler® vehicles
- Graphing display compares three live-data parameters on-screen at once to see the cause-and-effect of vehicle faults
- Big 4" touchscreen for fast navigation—shows detailed results with clarity
- Exclusive built-in code tip database shows possible causes of engine fault codes
- Covers all 10 modes of OBD-II—read codes, clear codes, reset the MIL, view current data, emissions readiness, on-board monitors, ECU information, pending codes and more
- No batteries required—powers from vehicle—simply connect MICROSCAN® III to a vehicle for automatic boot-up
- Create custom data lists—record, save, play back data and screen images for reference
- Includes MICROSCAN® III Scan Tool, 5' data cable with OBD-II connector, USB cable and quick start guide

### MICROSCAN® Accessories

#### EAK0302L03A Adaptor Kit, OBD-I

- Read engine codes on select pre-1996 GM®, Ford®, Chrysler® and Toyota® vehicles
- OBD-I adaptors are compatible with vehicles as far back as 1983
- Chrysler® 1, GM® 1, Toyota® 1 and Toyota® 2 adaptors
- Note: For MICROSCAN® III only; not compatible with Snap-on® brand scan tools



EAK0302L03A

## OBD-II Scan Tools

### EECR1A Global OBD-II Code Reader (Blue-Point®)

- Diagnose and turn off check engine light—works on all 1996 and newer OBD-II vehicles
- Plug-and-play diagnostics—simply plug in, tool automatically links to vehicle, then diagnostics start in seconds
- I/M readiness advisor—perform OBD-II drive and trip cycle tests to validate for accurate repairs with on-screen I/M status indicators
- Vehicle health status LEDs—know in advance if the vehicle is emission test ready (Red = Fail, Green = Pass)
- Backlit screen
- Includes EECR1-1 quick reference guide (English, Spanish, French)

### EECR3A CarScan® Code Reader +ABS/SRS (Blue-Point®)

- Now with expanded SRS, limited live data and trip cycle procedure
- Diagnose and turn off check engine light—works on all 1996 and newer OBD-II vehicles
- Vehicle health status LEDs know in advance if the vehicle is emission test ready (Red = Fail, Green = Pass)
- Plug-and-play diagnostics—simply plug in and the tool automatically links to the vehicle; diagnostics start in seconds
- Service and diagnose engine and ABS system—read and clear anti-lock brake DTCs on 1996 and newer US, Toyota® and Honda®
- View freeze-frame data—review a snapshot of the conditions present when the failure occurred to duplicate for advanced diagnostics
- Built-in memory for off-car review
- DTC definitions displayed in English, Spanish and French
- Internet updatable via USB
- Backlit color screen

### EECR5 CarScan® Code Reader+ ABS/SRS/Module Scan (Blue-Point®)

- Diagnoses and turns off check engine light—works on all 1996 and newer OBD-II vehicles
- Network/Module Scan comprehensively reads and clears all vehicle ECU modules
- Vehicle health status LEDs—know in advance if the vehicle is emissions test ready (Red = Fail; Green = Pass)
- Read and clear anti-lock brake (ABS) DTCs on 1996 and newer US, Asian and European vehicles
- Read and clear supplemental restraint system (SRS) DTC's on 1996 and newer US, Asian and European vehicles
- OBD-II Live Data (ABS/SRS) review OBD-II Live Data for ABS/SRS systems to aid in diagnosis
- Built-in memory for off-car review
- DTC definitions displayed in English, Spanish and French
- Internet updatable via USB
- SRS limited live data and trip cycle procedure
- OBD-II connection point is lighted for simplified under dash installation
- Backlit color screen for improved viewing



| Type                 | Description                               | EECR1A | EECR3A   | EECR5    |
|----------------------|---|--------|----------|----------|
| Tool Features        | Display                                   | •      | 2.8" LCD | 3.5" LCD |
|                      | Multilingual                              | •      | •        | •        |
|                      | Internal Batteries                        |        | •        | •        |
|                      | Detachable Cable                          |        | •        | •        |
| OBD2 Functions       | Illuminated LED's on OBD2 DLC cable head  |        | •        | •        |
|                      | \$01 - Limited Live Data                  |        | •        | •        |
|                      | \$01 - Graph Live Data                    |        | 2 Values | 2 Values |
|                      | Record & Playback (LD)                    |        | •        | •        |
|                      | \$02 - Freeze Frame                       |        | •        | •        |
|                      | \$03 - Read DTC                           | •      | •        | •        |
|                      | I/M Monitors Status                       | •      | •        | •        |
|                      | OBD2 Hybrid                               | •      | •        | •        |
|                      | Definitions on Screen                     |        | •        | •        |
|                      | \$04 - Erase                              | •      | •        | •        |
|                      | \$05 - O2S Results                        |        | •        | •        |
|                      | \$06 - Non-continuous Test Results)       |        | •        | •        |
|                      | \$07 - Pending DTCs                       | •      | •        | •        |
|                      | \$08 - EVAP                               |        | •        | •        |
|                      | \$09 - ECU Info (on Background)           |        | •        | •        |
|                      | \$09 - Display on Screen                  | •      | •        | •        |
| \$0A - Permanent DTC | •   | •      | •        |          |
| ABS Coverage         | ABS - Domestic Coverage                   |        | •        | •        |
|                      | ABS - Asian Coverage                      |        | •        | •        |
|                      | ABS - European Coverage                   |        | •        | •        |
|                      | ABS Limited Live Data                     |        |          | •        |
| SRS Coverage         | SRS - Domestic Coverage                   |        | •        | •        |
|                      | SRS - Asian Coverage                      |        | •        | •        |
|                      | SRS - European Coverage                   |        | •        | •        |
|                      | SRS Limited Live Data                     |        |          | •        |
| Common Features      | All-in-One Display                        | •      | •        | •        |
|                      | System Status LED                         | •      | •        | •        |
|                      | Prioritized DTCs                          | •      | •        | •        |
|                      | Readiness Monitors Definitions            | •      | •        | •        |
|                      | LED Meaning                               |        | •        | •        |
|                      | DLC locator                               |        | •        | •        |
|                      | On Screen Code Definitions Lookup Library |        | •        | •        |
| Unique Tool Features | Enhanced Engine and Transmission Codes    |        | •        | •        |
|                      | Trip Cycle Procedure                      |        | •        | •        |
|                      | Mode 6 in Layman's terminology            |        | •        | •        |
|                      | Oil Light Reset                           |        | •        | •        |
|                      | Battery Reset                             |        |          | •        |
|                      | Battery Initialization Function           |        |          | •        |
|                      | Network Scan (scan DTCs for all modules)  |        |          | •        |



• Do not use in atmosphere with explosive vapor  
• Read safety precautions on pages W1 to W4

# Pro-Link® EDGE HEAVY-DUTY VEHICLE DIAGNOSTICS

## Pro-Link® Diagnostic Platforms

### EEHD345MA\*† Pro-Link® Edge Master Kit with Cart

- Includes Pro-Link® Edge Diagnostic Tool, full 10-pack software suite, 6-pin Deutsch Cable, Data Cable, 9-Pin Deutsch Cable, 16-Pin J1962 Cable, Crossover Cable, PLC Adapter, Battery Pack, AC Adapter, Foam and Cart
- Over 500 programmable parameters to configure a fleet to operating limits you define, e.g., idle shutdown, speed limit, driver reward, engine rating, engine protection shutdown and injector replacement
- (4) custom-fit foam drawer organizers with part number and description labeling provide control for scan tool and accessories (EEHDEKFOAM3A and EEHDEKFOAM4B are for optional accessories)
- Cart split-top slides out from center to provide total access to a generous top compartment, includes (4) custom-fit foam drawer organizers with part number and description labeling
- Whether in the driver's seat or under the hood, the user has the ability to view diagnostic data results via HDMI output to the 27" HD LED monitor
- Print vehicle reports and information gathered from diagnostic sessions to a printer (purchased locally) that can be stored in the top drawer
- All of the latest heavy-duty software is available, including Cummins® engines v.3.0 and Bendix® Air ABS v.2.0
- Remote access for enhanced technical support
- Tested and licensed OEM coverage for all major systems, including engines, transmissions, ABS, instrument cluster, emissions, SCR, body controls and more
- OEM-proprietary diagnostics for commercial vehicles from light diesels to Class 8 heavy-duty trucks
- Perfect for truck shops, general repair, fleet maintenance and municipalities
- Essential maintenance functions: read and clear fault codes, access trip data to monitor vehicle and driver performance, create health reports and view live data to verify performance
- Powerful repair functions: graph live data to find tough problems, special tests to verify component failures and validate system operation, program replacement components, expanded component diagnostics and custom ECU programming configuration
- Covers systems and components for the major heavy-duty manufacturers: Volvo®, Mack®, PACCAR®, Kenworth®, Peterbilt®, Freightliner®, International® and more—plus light- and medium-duty truck coverage
- Common user interface for all makes
- Big, 10" color touchscreen display for clarity and fast navigation automatically adjusts brightness for indoor and outdoor use

### Connectivity tools make it easy to save, view and share vehicle results:

- HDMI port to view results on external monitor
- SD memory card slot to store/share test results
- Wi-Fi for networking



EEHD345SAPWZ

- USB port for accessories like a memory stick, keyboard or printer
- Rugged solid state drive to store data and software upgrades
- Choice of power sources: internal lithium-ion battery, 120 V AC adaptor or vehicle adaptor
- Get direct links from fault codes to step-by-step test and diagnostic procedures, component locators and wiring diagrams with the optional Repair-Connect®
- Internet delivery of software upgrades directly to the tool and free trial period to try before you buy—see your Snap-on® representative to activate
- Software upgradable to accommodate new technology, ECUs and EPA requirements
- Over 1,000 special tests to override vehicle controls and operating conditions for diagnostic validation, e.g., DPF clean/replace, cylinder contribution, injector tests, timing and boost calibration

### EEHD345SA\*\* Pro-Link® Edge Starter Kit

- Includes Pro-Link® Edge Diagnostic Tool, Starter Kit Software, 6-pin Deutsch Cable, Data Cable, 9-Pin Deutsch Cable, 16-Pin J1962 Cable, Battery Pack, AC Adapter, Soft Side Carry Case and Cart
- Features a 10" full-color class LED sunlight-readable display
- Whether in the driver's seat or under the hood, the user has the ability to view diagnostic data results via HDMI output to 27" HD LED monitor
- (4) custom-fit foam drawer organizers with part number and description provide control for the unit and optional accessories
- Tool displays and keeps track of registered and trial software titles
- Print vehicle reports and information gathered from diagnostic sessions to a printer (sold locally) that can be stored in the top drawer

### Colors Available:

Note: Color options require an approximate 20-day lead time for delivery

|    |     |             |            |              |                 |               |               |               |                         |                 |       |                         |
|----|-----|-------------|------------|--------------|-----------------|---------------|---------------|---------------|-------------------------|-----------------|-------|-------------------------|
|    |     |             |            |              |                 |               |               |               |                         |                 |       |                         |
|    | Red | Gloss Black | Royal Blue | Ultra Yellow | Electric Orange | Extreme Green | Arctic Silver | Midnight Blue | Flat Black w/Black Trim | Candy Apple Red | White | Storm Gray w/Black Trim |
| *  | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | POT                     | PJH             | —     | PWZ                     |
| ** | PBO | PC          | PCM        | PES          | PJK             | PJJ           | PKS           | PDG           | POT                     | PJH             | PU    | —                       |

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

# Pro-Link® EDGE HEAVY-DUTY VEHICLE DIAGNOSTICS

## Pro-Link® Edge

### EEHD189090 Pro-Link® Edge

- Pro-Link® Edge provides the technician with the speed and efficiency required to stay competitive while repairing today's complex commercial vehicles
- Provides thousands of OEM tests, maintenance routines, and programmable parameters for major systems on commercial vehicles, including engines, transmissions, brakes, body and chassis, and instrument clusters
- Eliminates the need to cross-reference generic codes to OEM codes
- Displays proprietary faults and data even after free trials have expired
- Protocols to support Ram® ProMaster vehicles and GM® body control modules
- Ability to scroll/swipe through information and data lists just the same way as on mobile devices
- More categories and data parameters per page
- Improved screen layout; modernized, intuitive icons and a higher screen resolution
- Ability to review and download maintenance information, wiring diagrams, specifications and digital photos from optional Mitchell 1® Repair-Connect®
- 120 V AC power adaptor



EEHD189090

### EEHD709004 Pro-Link® Edge Master Kit

- Perfect for truck shops, general repair, fleet maintenance, mobile service and municipalities; provides OEM-proprietary diagnostics for commercial heavy-duty trucks
- Tested and licensed OEM coverage for all major systems, including engines, transmissions, ABS, instrument cluster, emissions, SCR, body systems and more
- Essential maintenance functions include read and clear fault codes, access trip data to monitor vehicle and driver performance, create health reports and view live data to verify performance
- Powerful repair functions include graph live data to find tough problems, special tests to verify component failures and validate system operation, program replacement components, expanded component diagnostics and custom ECU programming configuration
- OEM-proprietary diagnostics for commercial vehicles from light diesels to Class 8 heavy-duty trucks
- Covers systems and components for the major HD manufacturers: Volvo®, Mack®, PACCAR®, Kenworth®, Peterbilt®, Freightliner®, International®, and more—plus light- and medium-duty truck coverage
- Easy-to-use, common user interface for all makes
- Big 10.1" color touchscreen display for clarity and fast navigation; automatically adjusts brightness for indoor and outdoor use



EEHD709004

### Connectivity tools make it easy

#### to save, view and share vehicle results:

- Mini HDMI port to view results on external monitor
- SD memory card slot to store/share test results
- Wi-Fi for networking
- USB port for accessories like a memory stick, keyboard or printer
- Rugged solid-state drive to store data and software upgrades
- Choice of power sources: internal lithium-ion battery, 120 V AC adaptor or vehicle connector
- Get direct links from fault codes to step-by-step test and diagnostic procedures, component locators and wiring diagrams with the optional Repair-Connect®
- Internet delivery of software upgrades directly to the tool and a free trial period to try before purchase—see your Snap-on® representative to activate
- Software upgradable to accommodate new technology, ECUs and EPA requirements
- Over 1,000 special tests to override vehicle controls and operating conditions for diagnostic validation—e.g., DPF clean/replace, cylinder contribution, injector tests, timing and boost calibration
- Over 500 programmable parameters to configure a fleet to operating limits you define—e.g., idle shutdown, speed limit, driver reward, engine rating, engine protection shutdown and injector replacement

HEAVY-DUTY TECH SUPPORT 800-311-5452

|                  | Stock No.    | Item description   | EEHD709004 Pro-Link® Edge Master | EEHD189090 Pro-Link® Edge Starter |
|------------------|--------------|--|----------------------------------|-----------------------------------|
| Software Suite   | EEHD189090SW | Snap-on® Starter Kit Software  | •                                | •                                 |
|                  | EEHD849003   | Cummins® Software 2002+ – Edge   | •                                |                                   |
|                  | EEHD849010   | International® Software Suite 1996+ – Edge   | •                                |                                   |
|                  | EEHD849015   | Detroit Diesel® Software DDEC® 2-DDEC 13, MBE – Edge   | •                                |                                   |
|                  | EEHD849024   | CAT® Software 1990–2009 – Edge   | •                                |                                   |
|                  | EEHD849025   | HINO® Software 2005–Current – Edge   | •                                |                                   |
|                  | EEHD849048   | LMT 2019 Software 1996–2019 – Edge   | •                                |                                   |
|                  | EEHD849011   | Volvo®/Mack® Software 2007–2018 – Edge   | •                                |                                   |
|                  | EEHD849034   | PACCAR® Software EPA 2010–2017 – Edge  | •                                |                                   |
|                  | EEHD849021   | Edge ABS Software BENDIX® ABS, TPMS, WABCO® Air, Hydraulic, Trailer ABS: Eaton®, Wabash® and Haldex® Suite | •                                |                                   |
| Vehicle Adaptors | EEHD849005   | Allison® Software – Edge   | •                                |                                   |
|                  | EEHD494024   | 6-Pin Deutsch Ultra Adaptor  | •                                | •                                 |
|                  | EEHD493026   | 26-Pin Data Cable  | •                                | •                                 |
|                  | EEHD493028   | 9-Pin Deutsch Cable  | •                                | •                                 |
|                  | EEHD493013   | J1962 16-Pin Cable   | •                                | •                                 |
|                  | EEHD406004   | HD Crossover Cable (PACCAR® MX)  | •                                |                                   |
| Accessories      | EEHD604020   | PLC Adaptor  | •                                |                                   |
|                  | EEHD4001-025 | Battery Pack   | •                                | •                                 |
|                  | EEHD494099   | Pro-Link® Ultra AC Adaptor   | •                                | •                                 |
|                  | EEHD219017   | Heavy-Duty Carry Case with Foam  | •                                |                                   |
|                  | EEHD219016   | Soft Side Carry Case   |                                  | •                                 |
|                  | EEHD1402813  | Stylus Pen   |                                  |                                   |

Pro-Link® Edge software is not backwards compatible to Pro-Link® Ultra or iQ.



- Do not use in atmosphere with explosive vapor
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages 906-907 for details.
- Read safety precautions on pages W1 to W4

# Pro-Link® Ultra and Edge HEAVY-DUTY VEHICLE DIAGNOSTICS

## PRO-LINK® Ultra and Edge Adaptors, Cables and Accessories

|   | Stock No.  | Description                                 |
|---|------------|---|
|    | EEHD493033 | 2- and 3-Pin Deutsch Adaptor                |
|    | EEHD494024 | 6-Pin Deutsch Ultra Adaptor                 |
|    | EEHD493001 | 9-Pin Deutsch Adaptor (Locking)             |
|    | EEHD493015 | CAT 9-Pin Adaptor                           |
|    | EEHD493028 | 9-Pin Deutsch Cable                         |
|    | EEHD493014 | HD Caterpillar® 9-Pin T-Adaptor             |
|   | EEHD493003 | 12-Pin Adaptor                              |
|  | EEHD493013 | J1962 16-Pin Cable                          |
|  | EEHD493026 | 26-Pin Data Cable                           |
|  | EEHD499095 | Pro-Link® Edge AC Adaptor 12 V, 2.5 A, 30 W |
|  | EEHD424001 | J560 7-Way Power Cable                      |
|  | EEHD499098 | HDMI Adaptor                                |

|  | Stock No.    | Description                     |
|--|--------------|---------------------------------|
|    | EEHD604020   | Universal J560 PLC Adaptor      |
|    | EEHD406004   | HD Crossover Cable (PACCAR® MX) |
|    | EEHD2450801A | Screen Protector                |
|    | EEHD213011   | Carrying Case (Ultra only)      |
|   | EEHD219016   | Soft Side Carry Case            |
|  | EEHD219017   | Heavy-Duty Carry Case with Foam |
|  | EEHD4001-022 | Battery (Ultra only)            |
|  | EEHD4001-025 | Battery Pack                    |
|  | EEHD905008   | Fault Code Guide                |
|  | EEHD1402813  | Stylus Pen                      |



# Pro-Link® Ultra SCAN TOOL SOFTWARE

Upgrade to the latest version of a currently owned software title by purchasing the part number with a "U" suffix.  
EEHD86####U



EEHD864024



EEHD865014

## Engines

| Stock No.   | Description   |
|-------------|---|
| EEHD864024  | CAT® Engines with ACERT® Technology v2.0 Update       |
| EEHD864024U | CAT® Engines with ACERT® Technology v2.0 Update       |
| EEHD864027  | Caterpillar® Electronic Engines                       |
| EEHD864010  | International® Engines v2.0                           |
| EEHD864010U | International® Engines v2.0                           |
| EEHD864015  | DDEC® Suite: DDEC® II, III, IV, V v2.0                |
| EEHD864015U | DDEC® Suite: DDEC® II, III, IV, V v2.0 Update         |
| EEHD864018  | DDEC® Suite: DDEC® 6, 10, 13 v2.0                     |
| EEHD864018U | DDEC® Suite: DDEC® 6, 10, 13 v2.0 Update              |
| EEHD864031  | Detroit Diesel® MBE                                   |
| EEHD867011  | Volvo®/Mack® V3 2007–Present                          |
| EEHD867011U | Volvo®/Mack® 2007+ Update                             |
| EEHD868003  | Pro-Link® Ultra Cummins® Engines Software v3.0        |
| EEHD868003U | Pro-Link® Ultra Cummins® Engines Update Software v3.0 |
| EEHD866025  | Pro-Link® Ultra Software – HINO® Engines v1.0         |
| EEHD867034  | PACCAR® Engines EPA10                                 |
| EEHD865009  | Navistar® MaxxForce® v3.0                             |
| EEHD865009U | Navistar® MaxxForce® v3.0 Update                      |

## Brakes

Heavy-Duty ABS applications provide diagnostic ABS information for both tractors and trailers. Allow viewing of proprietary information and running of special tests.

| Stock No.   | Description  |
|-------------|--|
| EEHD865014  | Meritor® WABCO® Suite v2.0: Air, Hydraulic ABS and OnGuard® CMS        |
| EEHD865014U | Meritor® WABCO® Suite v2.0: Air, Hydraulic ABS and OnGuard® CMS Update |
| EEHD864021  | Trailer ABS Suite: Eaton®, Wabash® and Haldex®                         |
| EEHD868013  | Pro-Link® Ultra Bendix® Air ABS Software v2.0                          |
| EEHD868013U | Pro-Link® Ultra Bendix® Air ABS Software v2.0                          |



EEHD864041



EEHD865005

## Transmissions

Heavy-duty transmission applications allow viewing of proprietary information and the running of special tests.

| Stock No.   | Description                 |
|-------------|-----------------------------|
| EEHD865005  | Allison® Transmission Suite |
| EEHD8650054 | Allison® Transmission Suite |

## Body and Chassis

| Stock No.  | Description                |
|------------|----------------------------|
| EEHD864041 | Navistar® Body and Chassis |



EEHD864007

## Heavy Duty Standard Applications

Snap-on® offers Heavy-Duty Standard (HDS) generic applications covering engines, transmissions, and brakes that provide access to limited, non-proprietary diagnostic information: HDS capabilities, read active fault codes, read and clear inactive fault codes, view non-proprietary parameters, and read trip information.

- Heavy-duty standard software is included with the Pro-Link® Ultra Scan Tool Start and Elite kits

| Stock No.  | Description               |
|------------|---------------------------|
| EEHD864007 | Heavy-Duty Standard J1939 |
| EEHD864076 | OBD-II/EOBD v5.0          |

## LMT Applications

| Stock No.   | Description   |
|-------------|---|
| EEHD869048  | Pro-Link® Ultra Light and Medium Truck (LMT) 2019         |
| EEHD869048U | Pro-Link® Ultra Light and Medium Truck (LMT) 2019 Upgrade |



EEHD869048

NOTE: Software is NOT compatible with the discontinued Pro-Link IQ™ Scan Tool (order EEHD88#### part numbers).

For more information, ask your Snap-on® sales representative about the application guide or call 800-311-5452.



- Do not use in atmosphere with explosive vapor
- Read and follow all safety precautions in instructions and on pages W1 to W4 when using diagnostic equipment

# Pocket IQ™ HEAVY-DUTY VEHICLE DIAGNOSTICS



EEHD186030



EEHD1402813

## Pocket iQ™ 2 Heavy-Duty Scan Tool

### EEHD186030 Pocket iQ™ 2 Scan Tool (Blue-Point®)

- View and clear current and historic faults
- Includes software to perform critical Diesel Particulate Filter (DPF) Regeneration (REGEN) while the Pro-Link® Edge is used to diagnose another vehicle
- Monitor all vehicle data
- Check engine speed and load, pressures, temperatures and more
- Display trip data
- Collect and store data from multiple vehicles
- Compliments the full-function Pro-Link® Edge

#### Pocket iQ™ 2 Scan Tool is ideal for:

- Aftermarket diesel technician
- Fleet technician
- OEM dealer (PM tech)
- Triage tool for shop technicians
- Owner/operator
- Maintenance facilities (non-repair)
- Expert customer care and technical support 800-311-5452



EEHD604020

### EEHD604020 Universal J560 PLC Adaptor

- Use the Universal J560 PLC Adaptor with the ABS diagnostic software application
- Detect ABS warning lamp messages coming from the trailer ECU
- Test the in-cab trailer ABS warning lamp
- Connect to the vehicle between the tractor and the trailer, or the trailer alone without the tractor

## Included in EEHD186030 Kit

| Stock No.   | Description         |
|-------------|---------------------|
| EEHD493028  | 9-Pin Deutsch Cable |
| EEHD493013  | J1962 16-Pin Cable  |
| EEHD493026  | 26-Pin Data Cable   |
| EEHD1402813 | Stylus Pen          |

## Applications

- HD/LMT DPF Regen
- Light and Medium Truck (LMT) 2016 Note: The LMT module does not include the ability to run special tests except DPF REGEN
- Heavy-Duty Standard (HDS) Note: The LMT module does not include the ability to run special tests except DPF REGEN The HD/LMT DPF Regen module provides coverage for the following manufacturers:
  - PACCAR®
  - Cummins®
  - Volvo®/Mack®
  - Hino®
  - Navistar® MaxxForce®
  - Detroit Diesel® DDEC 6, 10, 13
  - Dodge®/RAM®
  - Ford® Diesel Engines
  - GM® Diesel Engines
  - Isuzu® Diesel Engines

## Optional Software/Adaptors

| Stock No.    | Description  |
|--------------|--|
| EEHD604020   | Universal J560 PLC Adaptor                           |
| EEHD918019SW | Pocket iQ™ 2 School Bus Software Suite (Blue-Point®) |



EEHD918021

## Pocket iQ™ Software

### EEHD918021 Pocket iQ™ 2 ABS Suite V 2.0 (Blue-Point®)

- Support for Bendix® EC-80™, TAB-6™ Advanced and SmartTire® Tire Pressure Monitoring System (TPMS)
- Special tests new with this release include: Axles Setup, Calibrate Lateral Acceleration Sensor, Calibrate Steering Angle Sensor, Chuff Modulators, Drag Torque, eTrack Solenoid and HSA Solenoid (Hill Start Assist)
- Includes Bendix® ABS Suite V 2.0, Meritor® WABCO® Suite and Trailer ABS Suite
- Trailer ABS Suite includes Wabash National MBS-1P and MBS-2, Eaton GEN4 and GEN5 and Haldex PLC, PLC Plus, and PLC Select
- Expert Customer Care Technical Support 800-311-5452

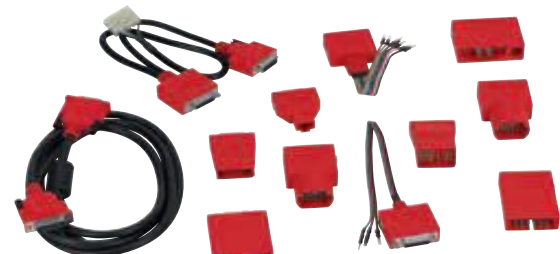
**Domestic/Asian Personality Keys**

| Upgrade         | Domestic and Asian | Most common make supported   | Part number                | European   | Most common make supported                     | Part number          |
|-----------------|--------------------|--|----------------------------|------------|--|----------------------|
| 17.2            | K-78               | Harley-Davidson®   | EAP0283L70A                |            |  |                      |
| 16.2            | K-33               | Ram® Promaster/Hyundai®/Kia®                                       | EAP0283L60A                |            |  |                      |
| 15.4            | K-32               | Mitsubishi® Electric   | EAP0283L45A                |            |  |                      |
| 15.2            |                    |  |                            | S-74       | Mercedes-Benz                                  | EAP0293L00A          |
| 14.4            |                    |  |                            |            |  |                      |
| 14.2            |                    |  |                            | S-26       | Porsche  | EAP0283L40A          |
| 13.4            |                    |  |                            | S-74       | Mercedes-Benz®                                 | EAP0268L50A          |
| 13.2            | K-30               | Subaru®  | EAP0283L30A                |            |  |                      |
| 12.4            | K-29               | GM® Extended CAN   | EAP0283L20A                |            |  |                      |
| 11.2            | K-28               | Nissan® Altima® Hybrid   | EAP0283L10A                | S-69       | Volvo® Dual CAN                                | EAP0283L05A          |
| 10.4            |                    |  |                            | S-25       | Land Rover®                                    | MT2500S25A           |
|                 |                    |  |                            | S-40       | Land Rover®                                    | EAP0234E20A          |
|                 |                    |  |                            | S-43       | Land Rover®                                    | EAP0234E40A          |
|                 |                    |  |                            | S-44       | Land Rover®/Volkswagen®                        | EAP0234E50A          |
|                 |                    |  |                            | S-45       | Land Rover®                                    | EAP0234E55A          |
|                 |                    |  |                            | S-62       | Land Rover®                                    | EAP0268L55A          |
| 9.2             | K-7A<br>K-27       | Chrysler®/Mitsubishi®<br>Chrysler®/Mitsubishi®                     | EAP0268L65A<br>EAP0268L75A | S-64       | Mercedes-Benz®                                 | EAP0268L70A          |
| 7.4             |                    |  |                            | S-64       | Mercedes-Benz®                                 | EAP0268L35A          |
| 7.2             | K-20<br>K-25       | Global OBD-II CAN<br>Chrysler®                                     | EAP0234E45A<br>EAP0268L15A | S-44       | Land Rover®/Volkswagen®                        | EAP0234E50A          |
|                 |                    |  |                            |            |  |                      |
| 6.4             | K-24               | Honda®   | EAP0268L05A                |            |  |                      |
| 6.2             | K-21<br>K-22       | GM®<br>Chrysler®   | EAP0234E80A<br>EAP0234E90A |            |  |                      |
| 5.2             | K-19               | CAN Protocol Vehicles  | EAP0234E35A                |            |  |                      |
| 4.4             | K-17               | Ford®/GM®/Toyota®/Nissan®/<br>Mazda®/Hyundai®/Kia®/<br>Mitsubishi® | EAP0234E25A                |            |  |                      |
| 4.2             | K-16               | Ford®  | EAP0257B00A                |            |  |                      |
| 4.1 and earlier | K-2A*<br>K-5A      | OBD-II<br>Hyundai®   | MT50780202<br>MT50780507   | S-4<br>S-7 | Mercedes-Benz®/Volkswagen®<br>BMW®/Land Rover® | MT2500S4<br>MT2500S7 |
|                 | K-7*<br>K-9        | Mitsubishi®<br>GM®   | MT50780701<br>MT50780901   |            | BMW/Land Rover<br>Mercedes-Benz®               |                      |
|                 | K-12A              | GM®  | MT50781202                 | S-20       | Mercedes-Benz®                                 | MT2500S20            |
|                 | K-13               | Chrysler®  | MT50781301                 | S-21       | Mercedes-Benz®                                 | MT2500S21            |
|                 | K-14               | Nissan®  | MT50781401                 | S-27       | Mercedes-Benz®                                 | MT2500S27            |
|                 | K-15               | Mitsubishi®  | MT50781501                 | S-28       | BMW®/Land Rover®                               | MT2500S28            |
|                 |                    |  |                            | S-33       | Mercedes-Benz®                                 | MT2500S33            |
|                 |                    |  |                            | S-34       | Mercedes-Benz®                                 | MT2500S34            |

**Optional Scanner Adaptor Sets**

**EAK0301B08A OBD-I Domestic/Asian Vehicle Adaptor Kit 2**

- OBD-I vehicle adaptor kit for SOLUS Ultra®
- Connectors include the most popular 1980–newer US and 1983–newer Asian vehicles
- Deep coverage, with codes, live data, functional tests and reset/relearn capabilities
- Coverage for major vehicle systems, including engine, body, transmission, airbag, suspension, ABS, instrument, climate control, security, lighting and more
- Kit includes a data cable and the most popular OBD-I adaptors: Multi-1, Ford® 1B, Ford® 4, GM® 1, Toyota® 1, Toyota® 2, Nissan® 1, Nissan® 2, Mazda® 1, Honda® 1, Mitsubishi® 1



**EAK0301B08A**



- Do not use in atmosphere with explosive vapor
- Read safety precautions on pages W1 to W4

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

- 53 KRA2405APBO, KRA2410APJJ
- 149 IPTMM11A, IPTMM12A, IPTMM13A, IPTMM14A, IPTMM5.5A, IPTMM5A, IPTMM6A, IPTMM7A, IPTMM8A, IPTMM9A
- 155 FSD14, FSD38, FSD3KT, FSDR, FSDR1
- 170 FSDR1
- 248 BLPBB1224
- 337 ATECHMS100M
- 416 BH232A
- 434 TF5A
- 434 TFL20MK, TFL500, TFL800, TFLM800, TFM5A
- 435 FSPPRK1, FSPPRK4
- 436 FRT10, FRT12
- 447 BEX081, BEX101, BEX121, BEX141, BEX161, BEX181, BEX201, BEX221, BEX241, BEXM101, BEXM121, BEXM131, BEXM171, E1, E1020, E1021, E1025, E1121, E1221, E1321, E1421, E1521, E1621, E1721, E1821, E2, E3, E4, E5, E6, E7, E8, E80, E81, E82, E83E84, E85, E921, EX1, EX2, EX3, EX4, EX5, EX6, EXD10, EXD35, EXDL10, EXDMS48, REX104A, REX105A, REX106A, REX107A, REX108A, REX109A, REX110A, REX111A, REX112A, REX113A, REX114A, REX115A, REX116A
- 460 SP2031A
- 505 JCW62R
- 513 JCW62R
- 547 PTGR100, PTGR110, PTGR280
- 560 PTGR100, PTGR110
- 571 PTGR280
- 700 MSC1, MSC2, MSCS1000
- 702 C129A
- 708 SP2031A
- 720 EEJP600-3, EEJP600-501R
- 721 EEJP201MBK
- 728 ACT825
- 729 ACTLD700
- 730 ACT120A
- 731 ACTUVMINI4
- 733 ACT51234A, ACTR1234YF, ACTR1234YF1, ACTR1234YF, ACTR4131A, ACTR4151A, ACTR4772-2, ACTR4772-3, ACTR5134A, ACTR5150A, ACTR9600
- 734 ACTB72, ACTB72A, ACTR72A, ACTRB72, ACTRB96, ACTRR72, ACTRR96, ACTRY72, ACTRY96, ACTY72, ACTY72A, ACTY96
- 735 ACT2100, ACT21001, ACT21003, ACT21005, ACT21006, ACT21007, ACT21008, ACT28B, ACT9005, ACT9006, ACT9103, ACT9106, ACTMAN2100
- 736 ACT1297, ACT1300B, ACT2105, ACT413A, ACT53134A, ACT53135, ACTR82375
- 738 ACT1008A, ACT1046C, ACT106B, ACT111B, ACT499A, ACT81290
- 749 SGA174BO, SGA174BR, SGA175BR
- 762 YA4275
- 764 OFW12418, OFW125532
- 773 A119C, A120A
- 774 FRT12
- 775 ADT30KT
- 776 SBT26
- 777 SBIT1, SBIT2
- 778 YA188LR
- 789 JCW620, JCW62R
- 807 BB100C
- 812 GA395A
- 824 WK100, WK200, YA335, YA336
- 825 WSC2
- 850 WIND200, WIND300, WINDHEATER
- 900 EEHD345MAPOT

**WARNING:** This product can expose you to chemicals including **Cadmium**, which is known to the State of California to cause reproductive harm. For more information go to www.P65Warnings.ca

- 855 GLOVE500BLC, GLOVE500BXXC, GLOVE500BXXC, GLOVE500RLC, GLOVE500RMC, GLOVE500RXC, GLOVE500RXXC, GLOVE501BMC, GLOVE501BXXC, GLOVE501BXXC, GLOVE501GL, GLOVE501GM, GLOVE501GXL, GLOVE501GXX, GLOVE501RLC, GLOVE501RMC, GLOVE501RXLC, GLOVE501RXXC
- 856 GLOVE502BLB, GLOVE502BSA, GLOVE502BXXB, GLOVE502RLB, GLOVE502RSA, GLOVE502RXLB, GLOVE503CLA, GLOVE503CMA, GLOVE503CLA, GLOVE503CXXA, GLOVE503HCXX
- 859 GLOVELMOSSL, GLOVELMOSSM, GLOVELMOSSXL, GLOVELMOSSXX
- 860 GLOVE505RL, GLOVE505RM, GLOVE505RXL, GLOVE505RXX, GLOVE900LG, GLOVE900LO, GLOVE900LR, GLOVE900MG, GLOVE900MO, GLOVE900MR, GLOVE900SR, GLOVE900XLG, GLOVE900XLO, GLOVE900XLR, GLOVE900XXG, GLOVE900XXO, GLOVE900XXR
- 861 GLOVE400L, GLOVE400M, GLOVE400S, GLOVE400XL, GLOVE400XXL

**WARNING:** This product can expose you to chemicals including **Colbalt**, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca

- 447 CSE405B, CSE405B, DBCFS1/4, DBCFS19/64, DBCFS5/32, DBCFS5/64, DBCFS7/64, DBCL1/2, DBCL1/4, DBCL1/4B,

- DBCL1/4B, DBCL1/8, DBCL15/32A, DBCL15/32A, DBCL19/64B, DBCL19/64B, DBCL3/16A, DBCL3/16A, DBCL3/8A, DBCL3/8A, DBCL5/32, DBCL5/32B, DBCL5/32B, DBCL5/64, DBCL5/64B, DBCL5/64B, DBCL7/32, DBCL7/64B, DBCL7/64B, DBCL9/32, DBCL9/32A, DBCL9/32A, DBF1/2C, DBF1/2C, DBF1/4C, DBF1/4C, DBF1/8C, DBF1/8C, DBF11/32C, DBF11/32C, DBF3/16C, DBF3/16C, DBF5/16C, DBF5/16C, DBF7/16C, DBF7/16C
- 451 CSE405BCSE405B, DBF1/2C, DBF1/2C, DBF1/4C, DBF1/4C, DBF1/8C, DBF1/8C, DBF11/32C, DBF11/32C, DBF3/16C, DBF3/16C, DBF5/16C, DBF5/16C, DBF7/16C, DBF7/16C
- 509 DBTR129
- 515 DBTR129
- 577 B121B, B129B, DBTBC1/16, DBTBC1/2, DBTBC1/4, DBTBC1/8, DBTBC11/32, DBTBC11/64, DBTBC121, DBTBC129, DBTBC13/32, DBTBC13/64, DBTBC15/32, DBTBC15/64, DBTBC17/64, DBTBC19/64, DBTBC21/64, DBTBC23/64, DBTBC25/64, DBTBC27/64, DBTBC29/64, DBTBC3/16, DBTBC3/32, DBTBC3/8, DBTBC31/64, DBTBC5/16, DBTBC5/32, DBTBC5/64, DBTBC7/16, DBTBC7/32, DBTBC7/64, DBTBC9/32, DBTBC9/64, DBTBM1, DBTBM1.5, DBTBM10, DBTBM10.5, DBTBM11, DBTBM12, DBTBM12.5, DBTBM125K, DBTBM13, DBTBM2, DBTBM2.5, DBTBM3, DBTBM3.5, DBTBM4, DBTBM4.5, DBTBM5, DBTBM5.5, DBTBM6, DBTBM6.5, DBTBM7, DBTBM7.5, DBTBM8, DBTBM8.5, DBTBM9, DBTBM9.5
- 578 DBTB1/16, DBTB1/2, DBTB1/4, DBTB1/8, DBTB11/32, DBTB11/64, DBTB121, DBTB129, DBTB13/32, DBTB13/64, DBTB15/32, DBTB15/64, DBTB17/64, DBTB17/64, DBTB19/64, DBTB21/64, DBTB23/64, DBTB25/64, DBTB27/64, DBTB29/64, DBTB3/16, DBTB3/32, DBTB3/8, DBTB31/64, DBTB5/16, DBTB5/32, DBTB5/64, DBTB7/16, DBTB7/32, DBTB7/64, DBTB9/32, DBTB9/64, DBTR1/16, DBTR1/2, DBTR1/4, DBTR1/8, DBTR11, DBTR11-1, DBTR11/32, DBTR11/64, DBTR129, DBTR13/32, DBTR13/64, DBTR15/32, DBTR15/64, DBTR17/64, DBTR19/64, DBTR21/64, DBTR23/64, DBTR25/64, DBTR27/64, DBTR29/64, DBTR3/16, DBTR3/32, DBTR3/8, DBTR31/64, DBTR5/16, DBTR5/32, DBTR5/64, DBTR7/16, DBTR7/32, DBTR7/64, DBTR9/32, DBTR9/64
- 579 B113B, B121C, B121F, B129C, B129F, B129M, DB113C, DB121C, DB129C, DBF1/16C, DBF1/2C, DBF1/4C, DBF1/8C, DBF11/32C, DBF11/64C, DBF13/32C, DBF13/64C, DBF15/32C, DBF15/64C, DBF1764C, DBF19/64C, DBF21/64C, DBF23/64C, DBF25/64C, DBF27/64C, DBF29/64C, DBF3/16C, DBF3/32C, DBF3/8C, DBF31/64C, DBF5/16C, DBF5/32C, DBF5/64C, DBF7/16C, DBF7/32C, DBF7/64C, DBF9/32C, DBF9/64C, DBTRCS1/16, DBTRCS1/4, DBTRCS1/8, DBTRCS11, DBTRCS11/32, DBTRCS3/16, DBTRCS3/32, DBTRCS3/8, DBTRCS5/16, DBTRCS5/32, DBTRCS7/32, DBTRCS9/32
- 580 B125C, B126C, DBA126B, DBAA1A, DBAA1B, DBAA1C, DBAA1D, DBAA1E, DBAA1F, DBAA1G, DBAA1H, DBAA1I, DBAA1J, DBAA1K, DBAA1L, DBAA1M, DBAA1N, DBAA1O, DBAA1P, DBAA1Q, DBAA1R, DBAA1S, DBAA1T, DBAA1U, DBAA1V, DBAA1W, DBAA1X, DBAA1Y, DBAA1Z, DBM1.5A, DBM10.5A, DBM10A, DBM11.5A, DBM11A, DBM12.5A, DBM125C, DBM12A, DBM13A, DBM1A, DBM2.5A, DBM2A, DBM3.5A, DBM3A, DBM4.5A, DBM4A, DBM5.5A, DBM5A, DBM6.5A, DBM6A, DBM7.5A, DBM7A, DBM8.5A, DBM8A, DBM9.5A, DBM9A
- 581 B160C, DB120C, DB160C, DBC260A, DBCE10A, DBCE11A, DBCE12A, DBCE13A, DBCE14A, DBCE15A, DBCE16A, DBCE17A, DBCE18A, DBCE19A, DBCE1A, DBCE20A, DBCE21A, DBCE22A, DBCE23A, DBCE24A, DBCE25A, DBCE26A, DBCE27A, DBCE28A, DBCE29A, DBCE2A, DBCE30A, DBCE31A, DBCE32A, DBCE33A, DBCE34A, DBCE35A, DBCE36A, DBCE37A, DBCE38A, DBCE39A, DBCE3A, DBCE40A, DBCE41A, DBCE42A, DBCE43A, DBCE44A, DBCE45A, DBCE46A, DBCE47A, DBCE48A, DBCE49A, DBCE4A, DBCE50A, DBCE51A, DBCE52A, DBCE53A, DBCE54A, DBCE55A, DBCE56A, DBCE57A, DBCE58A, DBCE59A, DBCE5A, DBCE60A, DBCE6A, DBCE7A, DBCE8A, DBCE9A, DBE10B, DBE11B, DBE12B, DBE13B, DBE14B, DBE15B, DBE16B, DBE17B, DBE18B, DBE19B, DBE1B, DBE20B, DBE21B, DBE22B, DBE23B, DBE24B, DBE25B, DBE26B, DBE27B, DBE28B, DBE29B, DBE2B, DBE30B, DBE31B, DBE32B, DBE33B, DBE34B, DBE35B, DBE36B, DBE37B, DBE38B, DBE39B, DBE3B, DBE40B, DBE41B, DBE42B, DBE43B, DBE44B, DBE45B, DBE46B, DBE47B, DBE48B, DBE49B, DBE4A, DBE50B, DBE51B, DBE52B, DBE53B, DBE54B, DBE55B, DBE56B, DBE57B, DBE58B, DBE59B, DBE5B, DBE60B, DBE61B, DBE62B, DBE63B, DBE64B, DBE65B, DBE66B, DBE67B, DBE68B, DBE69B, DBE6B, DBE70B, DBE71B, DBE72B, DBE73B, DBE74B, DBE75B, DBE76B, DBE77B, DBE78B, DBE79B, DBE7B, DBE80B, DBE8B, DBE9B
- 583 DBCL1/2A, DBCL1/4B, DBCL105B, DBCL11/32A, DBCL13/32A, DBCL15/32A, DBCL19/64B, DBCL3/16A, DBCL3/8A, DBCL5/16A, DBCL5/32B, DBCL5/64B, DBCL7/16A, DBCL7/64B, DBCL9/32A, DBD1/4A, DBD1/8A, DBD1/8AMP10, DBD110A, DBD11A, DBD20A, DBD3/16A, DBD30A, DBD5/32A, DBD7/32A, DBD7/64A, DBD9/64A, DBLS1/4B, DBLS1/8B, DBLS105B, DBLS11/32B, DBLS3/16B, DBLS5/16B
- 584 DBTRCSL1/16, DBTRCSL1/4, DBTRCSL1/8, DBTRCSL11, DBTRCSL11/32, DBTRCSL3/16, DBTRCSL3/32, DBTRCSL3/8, DBTRCSL5/16, DBTRCSL5/32, DBTRCSL7/32, DBTRCSL9/32
- 585 CSE345BCSE365B, CSE375, CSE385B, CSE405B, CSE425B, CSE445B, CSE465B, CSE475, CSE485B, CSE505B, CSE525B,

CSE565B, CSE575, CSE605B, CSE645B, DBK7A, DBT1/2A, DBT1/4A, DBT1/8A, DBT3/16A, DBT3/8A, DBT5/16A, DBT7/16A  
670 DBD1/4A

**WARNING:** This product can expose you to chemicals including **DEHP**, which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.P65Warnings.ca](http://www.P65Warnings.ca)

762 YA4022  
770 YA871  
714 EEBC500A  
715 EEBC100A

**WARNING:** This product can expose you to chemicals including **Disononyl phthalate (DINP)**, which is known to the State of California to cause cancer, and **Di-isodecyl phthalate (DIDP)**, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca](http://www.P65Warnings.ca)

399 PR215, PR7A, PR7A, PR8A, PRC65A, PRH502A, PRH503, PRH56A, PRH57A  
433 YA3202  
435 FSPK5  
502 PRH57A  
510 PRH57A  
681 VSC4KT  
724 BL1B  
748 PHP1A, PHP2A, PHP3A  
772 YA4660  
777 SBT12  
784 PRS10, PRS12

**WARNING:** This product can expose you to chemicals including **Lead** and **DEHP**, which are known to the State of California to cause cancer and reproductive harm. For more information go to [www.P65Warnings.ca](http://www.P65Warnings.ca)

740 SVTSRAD272A, SVTSRAD272U, SVTSRAD372TA  
741 SVTS2000

**WARNING:** This product can expose you to chemicals including **Lead**, which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.P65Warnings.ca](http://www.P65Warnings.ca)

122 K1HLA, K2HLA, K3HLA, K4HLA, K5HLA, K6HLA, K7HLA  
283 R3436A, R3640SA, R3840A  
370 DHW1, SHORTORX  
371 BTW0S, BTW0SK, BTWROS, BTWS, BTWSMPK  
410 PGH8A  
416 HBR15, HBR4, HBR6  
417 HSP16KT, HSP16KT7  
431 PKB500A, PKB50A, PKB52A, PKB53A  
432 TC90A, TC90A1  
435 FSPK, FSPK1, FSPK2, SPRTLM12, SPRTLM14, SPRTLM16, SPRTLM203  
439 RTD15M, RTD48, TDM51B, TDM53B, TDM54B, TDM55B, TDM56B, TDM57B, TR10008A, TR10014A, TR101, TR11150, TR11212A, TR11257A, TR12507A, TR12512A, TR14150, TR2520A, TR2528B, TR3118A, TR3124B, TR3716A, TR3724B, TR4314A, TR4320B, TR5013A, TR5020B, TR5612A, TR5618B, TR6211A, TR6218B, TR7510A, TR7516A, TR8714A, TR8759A, TRC3, TRF3, TRM1025-1, TRM1025-2, TRT101, TRT11150, TRT14150, TRT2520A, TRT2528A, TRT3118A, TRT3124A, TRT3716A, TRT3724A, TRT4314A, TRT4320A, TRT5013A, TRT5020A, TRT51, TRT53, TRT54, TRT55, TRT56, TRT5612A, TRT5618A, TRT57, WSK755-2, WSK755-3, WSK755-5, WSK755-6, WSK938-3, WSK938-4  
441 RD20, RD7-1, RD7-10, RD7-11, RD7-12, RD7-13, RD7-14, RD7-15, RD7-16, RD7-17, RD7-18, RD7-19, RD7-2, RD7-20, RD7-21, RD7-22, RD7-23, RD7-25, RD7-27, RD7-28, RD7-29, RD7-3, RD7-4, RD7-5, RD7-6, RD7-7, RD7-9, RD8, RD8LT  
442 TF1124B, TF1127B, TFM7530B  
462 CJ132-2, CJ132-4, CJ132-5, CJ132-6, CJ132-7, CJ132-8, CJ13210, CJ1329, CJ132A  
476 EEPD500, EEPV313C, FB300A  
477 M3540C, M3584C, SP500, SP5001, SP5002, SP503  
481 FB308D, FB325A, FB328A  
482 YA9340  
492 BSA916, HSA716  
494 EEPV503, HD6529, NBAT1, YA173B, 496 AOFW2  
503 FB303B, FB316B, FB325A  
507 RTD48  
510 FB316B, FB360C, FBM320  
513 RTD48  
586 YA246A  
594 JT23, JT24  
596 AIRHOSE100, AIRHOSE35, AIRHOSE50, IM2001A, IM2002A, IM2004A, IM2005A, IM2008A, IM2009A  
597 AHC21D, AHC21FD, AHC21MD, AHC21PD, AHC21PMD, AHC22E, AHC22FD, AHC22MD, AHC23D, AHC23FD, AHC23MD, AHC23PMD, AHC24FD, AHC24MD, AHC25D, AHC25FD, AHC25MD, AHC26D, AHC26FD, AHC26MD, AHC27D, AHC27FD, AHC27MD, AHC28D, AHC28FD, AHC28MD, AHC31, AHCC90C, AHCC91C, AHCC98C, AHCCP97C  
660 HRC1502172, HRC4300499, HRC4302202, HRC9004486, HRC9100614, WE200A, WE200A1, WE200A2, WE250A, WE250A1, WE250A2

662 R25A, R40B, R460B, R490, R490400, R490500  
663 TORCH2A  
664 YA477A  
671 YA22350C, YA22375, YA2351, YA2353, YA2354, YAH22350C, YAH22375  
672 YA223001, YA2230010, YA223002, YA223003, YA223004A, YA223005B, YA223006, YA223007, YA223009, YA22300A, YA22351, YA22352, YA22353, YA22354, YA22355, YA22355  
681 PG160, PG60, TPG15, TPRG60  
682 TGF1S1, TIF160, TIFHD160, TPGD150, TPGDL1000C, TPGDL150, TPGIF1600A  
683 GAOC356, GAOC460, PGP120, PGP150LB, PGP20, PGP45LQ, PGP50, PGPL150, PGPS50, PGPS50GB, TGS1, TPDFOC14, TPOC2  
684 GA296B, GA356B, GA358B, GA359B, GA460B, TDG1, TDG2, TPDF14A, YA173B  
685 VT1B  
698 TC90A, TC90A1  
705 EEPV508  
715 EEP1175, EEP1175-BLK, EEP12250  
716 EEBM500A  
722 MT302BG, MT302BO, MT302BR  
723 YA249, YA249L  
724 GA486A  
738 R404, RF818SC  
741 SVTS263A, SVTS272  
748 HCP20  
764 YA995, YA996  
765 OFCA2KT, OFCADPTR, OFCCASE  
766 GA471, GA472, GA473A, GA96B  
767 YA801  
769 OC5A, OCF5  
770 YA8661, YA8662  
773 EEPV507  
776 YA9340, YA9350-2, YA9350-3, YA9350-4, YA9350-5, YA9350-6, YA9350-7, YA9350-8, YA9350-9, YA9350B, YA9350B1  
779 HDP1345, HDP1740, HDP1835, HDP6490  
780 SPS2, YA7200  
782 CF19B, CF700C, CF700C-1, CF700C-2, CF811B  
783 VST100, WR30A  
797 FB316B, FB326B  
798 FB300A, FB308D, FB310B, FB322, FB325A, FB328A, FB335, FBL325A, FBM320, FBM322  
799 FB301A, FB302A, FB303B, FB305A, FB3330, FB360C, FBP10, FBS5  
806 YA4000B  
810 BSA916, BT4651, HSA716  
811 BTCP400, BTCP500  
813 YA2780  
815 CF63A  
823 DHS108, DHW1  
826 RBYF445  
828 AHCC90C, AHCC91C, AHCCP97C  
839 BRA10312H, BRA15312H, BRA20312H, BRA8380V, BRARS10380H, BRARS153130H, BRARS203130H, BRARS8380H  
840 BRA5140H, BRA517V, BRA5DV30VP, BRA7180VEM, BRA8180V, BRA9G3B, BRAC560V, BRAP7S0S, BRARS8180H  
849 YA1009SSA, YA1023A, YA1105A  
865 WBBS2, WBBS2BKT, WBSET, WBSSSET  
894 HHGA5C, HHGA5CP

**WARNING:** This product can expose you to chemicals including **Nickel**, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca](http://www.P65Warnings.ca)

360 SDDP31RB, SDDP42RB, SDDP61RB, SDDP62RB, SDDP63RB  
365 SDMDT25T30  
366 SGDQ16KT, SGDQ6  
374 SDMD213, SDMD221, SDMD222, SDMD223, SDMDT15, SDMDT20, SDMDT25, SDMDT30  
380 SDMD212, SDMD213, SDMD214, SDMD221, SDMD222, SDMD223, SDMD321, SDMD322, SDMD323, SDMDT10, SDMDT15, SDMDT20, SDMDT25, SDMDT30, SDMDT40  
383 SG5ASABR  
503 SGA173BR  
510 SGA173BR  
516 SGA173BR  
594 YA105013, YA105020, YA1050B, YA1050T2  
595 YA1055B  
661 YAKS22A, YAKS42, YAS22A  
749 SGA173BO, SGA173BR  
767 UFREE1  
770 YA870

**WARNING:** This product can expose you to chemicals including **phthalates**, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca](http://www.P65Warnings.ca)

759 ECSPB023G, ECSPB023O, ECSPB023R








*Important Words  
About Safety  
for Users and Bystanders*

Following these basic safety rules is a good start toward protecting yourself — and others in the vicinity — from injury while using tools.

**Wear safety goggles**  
**Use the right tool**  
**Use the tool properly**  
**Maintain the tool regularly**  
**Keep tools away from children**  
**Do not use tools on live electrical circuits unless specifically designed for such use**  
**Read and follow instructions**

- \*  **THIS SYMBOL INDICATES PROHIBITED ACTION**
- \*  **DO NOT OVER-TORQUE  
NO PIPES OR LEVER  
EXTENSIONS**
- \*  **NO HAMMERING**
- \*  **NO PRYING**
- \*  **DO NOT STRIKE HARD  
OBJECTS**
- \*  **NO IMPACT/POWER  
DRIVE**
- \*  **DO NOT STEP IN OR ON  
DRAWERS**
- \*  **DO NOT OPEN MULTIPLE  
DRAWERS**
- \*  **DO NOT PULL TO MOVE**
- \*  **KEEP CHILDREN AWAY**

- \*  **THIS SYMBOL INDICATES  
MANDATORY ACTION**
- \*  **MUST READ INSTRUCTIONS  
BEFORE USE**
- \*  **MANDATORY EAR  
PROTECTION**
- \*  **MANDATORY EYE  
PROTECTION**
- \*  **MANDATORY PROTECTIVE  
GLOVES**
- \*  **MANDATORY PROTECTIVE  
CLOTHING**
- \*  **MANDATORY FACE SHIELD**
- \*  **MANDATORY HEAD  
PROTECTION**
- \*  **MANDATORY MASK**
- \*  **MANDATORY RESPIRATOR**

- \*  **WARNING**  
**THIS SYMBOL INDICATES A HAZARD  
ALERT, GENERAL WARNING SIGN**
  - \*  **RISK OF EXPLOSION**
  - \*  **RISK OF ELECTRIC  
SHOCK**
  - \*  **RISK OF FIRE**
  - \*  **RISK OF  
ENTANGLEMENT**
  - \*  **VIBRATION HAZARD**
  - \*  **OVERHEAD/OVERLOAD  
HAZARD**
- \*These symbols are excerpted from ISO 7010: 2011 with the permission of ANSI on behalf of ISO.  
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Safety messages in this catalog use the guidelines of the American National Standard ANSI Z535.4 for Product Safety Signs and Labels and ANSI Z535.3 Criteria for Safety Symbols. Messages associated with specific products use a triangular hazard alert symbol, signal word (CAUTION, WARNING, DANGER) and how to avoid the hazard. Each message refers to pages (W1 to W4) which provide additional safety symbols and three-part messages advising of:

- The hazard
- How to avoid the hazard**
- The probable consequence of not avoiding the hazard*

**PLEASE READ AND FOLLOW** these messages to avoid injury to yourself and bystanders.

## Adaptors

### WARNING



- Adaptors can break from over-torque. **Do not use with impact drivers. Do not exceed the torque stamped on adaptor.**  
*Broken adaptor can cause injury.*

## Battery Chargers, Testers (AVR), Portable Booster Packs

### WARNING



- Batteries produce explosive gases and can explode



- **Wear safety goggles (user and bystanders). Read and follow all safety precautions accompanying the product. Do not overcharge battery. Keep flames and sparks away from batteries. Do not expose batteries of Booster Pack to liquids.**



- Sparks occur when connecting or disconnecting leads while charger is ON



- **Charger must be OFF when connecting or disconnecting leads. Do not allow leads on Booster Packs to contact each other.**



- **Battery explosion or ignited gases can cause injury.**

## Blow Guns

### WARNING



- Blow guns create flying particles, noise and high velocity air



- **Wear safety shield or goggles (user and bystanders). Wear mask if air is dusty (user and bystanders).**



- **Wear hearing protection (user and bystanders). Do not direct air at yourself or bystanders.**

- **Keep out of reach of children. VENTED: Do not use if air supply is above 135 psig. Do not obstruct vents. NON-VENTED: Do not use if air supply is above 30 psig.**



- **Flying particles, noise and high velocity air can cause injury.**

## Brake Tools

### WARNING



- Brake cylinder hones can fly apart if used outside cylinder



- **Wear safety goggles (user and bystanders). Operate only while hone is within cylinder.**

- *Flying parts can cause injury.*

## Butane Mini-Torches

### WARNING



- Butane can explode
- **Store at a temperature below 120 °F. Dispose of butane in accordance with regulations.**



- *Explosion or flames can cause injury.*

## Compressors

### WARNING



- Air compressors have electrical parts, moving parts and contain high pressure air that may be impure



- **Read and follow all instructions. Do not use as an air supply for breathing. Improper use or maintenance can cause shocks, entanglement or injury.**



- Compressor systems contain air under pressure which can create a high pressure stream or ruptured vessel



- **Wear safety goggles (user and bystanders). Relieve pressure before servicing. Do not modify/repair/rework pressure vessel or change safety relief pressure setting.**



- *A pressurized air stream or rupturing pressure vessel can cause injury.*



- **Moving components inside. Do not use without all guards in place. Moving components can cause injury.**
- **High voltage will create an electrical shock. Disconnect all power before servicing. High voltage can cause injury.**

## Cordless Tools

### WARNING



- Battery packs present a risk of fire, explosion and electric shock
- **Charge battery pack only with charger provided.**



- **Do not store battery packs at temperatures above 120 °F (49 °C). Do not discard used batteries; return them to a Snap-on® repair center for recycling.**



- **Follow all safety messages in user's manual. Do not expose battery pack to liquids. Fire or explosion or electric shock can cause injury.**



- **Sparks from electric motor can ignite an atmosphere containing flammable vapor. Do not use cordless tools in a volatile atmosphere. Fire and/or explosion can cause serious injury.**

## Diagnostic Equipment

### WARNING



- Use of diagnostic equipment on rotating engine poses risk of flying particles and entanglement



- **Wear safety goggles. Use caution in routing cables. Flying particles can cause injury. Poorly routed cables and test leads can cause entanglement and injury.**



- Use of diagnostic equipment can cause electrical shock, fire and explosion.
- **Use caution and proper procedures when connecting and disconnecting leads. Diagnostic equipment must be located 18" or more above floor level.**



- **Avoid sparks and other sources of ignition. Electrical shock, flames and explosion can cause serious injury.**



- **Improper use can cause hazardous conditions**



- **Read and follow all safety precautions accompanying the product. Unexpected electrical, thermal or mechanical occurrences can cause injury.**

## Fuel System Tools

### WARNING



- Flammable liquid and fumes can ignite
- **Wear safety shield (user and bystanders). Use only in well-ventilated areas. Flames or explosion can cause injury.**



## Geared Head Torque Multipliers

### WARNING



- Use of gear head torque multipliers for torque control may result in inaccurate torque application



- **For accurate control of torque use an Electrotork®, a Torqometer® or other measuring device located directly on the fastener.**



- *Limited accuracy of the torque ratio of a geared head torque multiplier may cause improper preload of the fastener if it is used for torque control.*

## Grinders, Grinding Wheels, Power Tool Accessories

(drill bits, wire brushes, grinding burrs, abrasive wheels, grinding wheels, valve grinders, valve grinding wheels)

### WARNING



- Grinding causes flying particles
- Power tool accessories can break



- **Wear safety goggles (user and bystanders). Do not operate without eyeshields, guards and holders in place.**



- **Do not use power tool accessories at speeds faster than their maximum rated RPM.**



- **Do not use any accessory not specifically intended for use with a die grinder, with a die grinder.**



- *Flying particles and broken tools can cause injury.*



- **Wire bristles can break and fly off. Wear safety goggles (user and bystanders).**



- *Flying particles can cause injury.*
- **Force on the side of grinding wheels or discs can break them. Do not grind on the side of a grinding wheel or disc. Broken grinding wheel or disc can cause injury.**

## Hammers (See Striking and Struck Tools)

## Hand Tools Handles

### WARNING



- Handles can break if overloaded
- **Do not use "cheater bars" on handles. Pull, do not push, on handles. Broken handle or a fall can cause injury.**

## Sockets, Accessories

### WARNING



- Sockets and accessories can break if used with an impact wrench
- **Do not use chrome or industrial finish hand tools with impact drivers. Broken sockets or accessories can cause injury.**

## Impact Wrenches

### WARNING



- Impact wrenches produce noise and vibration
- **Wear appropriate ear protection and gloves.**



- *Extended exposure to noise and vibration can cause injury or impairment*



- Impact wrenches can cause breakage of sockets or accessories



- **Wear safety goggles (user and bystanders). Flying particles can cause injury.**

## Knives

### WARNING

- Blades are sharp and can cut
  - Blades can break causing flying objects
- Wear safety goggles (user and bystanders).**  
**Do not pry or bend blade.**  
**Keep away from children.**  
**Make sure that the blade locking device is securely engaged before using the knife.**  
*Sharp edges and flying objects can cause injury.*

## Leak Detectors

### WARNING

- Gases, fluids or accumulated fumes may explode or ignite
- Do not expose fluids or fumes to flames, sparks or other sources of ignition.**  
**Wear safety goggles or safety shield.**  
**Use only in well-ventilated areas.**  
*Explosion or flames can cause injury. Fumes can cause breathing difficulty.*

## Lift Equipment Jacks, Jack Stands

### WARNING

- Vehicles supported by jacks or jack stands may fall if used improperly
- Do not exceed rated capacity of jack or jack stand.**  
**Do not work on vehicle supported by jack, use jack stands; use jack stands in pairs.**  
**Use jack and jack stands only on hard level surface.**  
**Lift and support vehicle only on its designated lift points.**  
*Failure of jack or jack stand or falling of vehicle can cause serious injury or death.*

## Lifts, Hoists

### WARNING

- Vehicles supported on lifts or hoists may fall if lifts are improperly installed, used or maintained
- Do not exceed rated capacity of the lift.**  
**Lift must support vehicle only on its designated lift points.**  
**Lifts must be installed by qualified installer.**  
**Lifts must be inspected and maintained in accordance with user's manual.**  
**Follow all instructions for proper use and all safety messages in user's manual.**  
*Failure of the lift or vehicle falling off of lift due to use of improper lift points can cause serious injury or death.*

## Lighting

### WARNING

- Electrical shock can result from absence of grounding prong
- Do not remove or bypass the grounding prong in any electrical plug.**  
**Disconnect power before servicing.**  
*Electrical shock can cause injury.*

## Pliers/Cutters

### WARNING

- Broken tips or cut material can fly
- Wear safety goggles (user and bystanders).**  
*Flying material can cause injury.*

## Power Tools

(impact wrenches, ratchets, hammers, sanders, grinders, cut-off tools)

### WARNING

- Power tools can cause flying particles
- Wear safety goggles (user and bystanders).**  
*Flying particles can cause injury.*
  - Power tools generate noise

**Wear hearing protection (user and bystanders).**  
*Prolonged exposure to noise can cause hearing loss.*
  - Power tools vibrate

**Avoid prolonged exposure to vibration.**  
*Prolonged exposure to vibration can cause injury.*
  - Improper use of power tools and accessories can cause broken tools

**Do not use without all guards in place.**  
**Use accessories rated at tool RPM or higher.**  
**Read and follow instructions before using power tools.**  
*Broken tools can cause injury.*

## Pressure Equipment and Pressure Gauges

(all equipment using pressurized air or hydraulic fluid such as tanks, spray guns and blow guns)

### WARNING

- Pressurized equipment, systems or tanks can break or leak
- Do not exceed the maximum pressure rating of equipment.**  
**Wear safety goggles or shield and protective clothing appropriate to the fluid.**  
*Pressurized fluid striking the body can cause personal injury. Flammable fluids such as gasoline, propane, etc. can ignite or explode and cause injury.*
  - Fluids can leak or escape

**Use only in well-ventilated areas.**  
*Breathing vapors or fluids from leaks can cause illness or injury.*
  - Pressurized air or fluid stream can propel dust or particles

**Do not direct air or fluid stream at your body or at others.**  
*Flying particles, air or fluid entering body can cause injury.*
  - Improper use or maintenance of pressurized equipment can cause leaks or rupture

**Read and follow instructions.**  
*Leaking of pressurized equipment can cause injury.*

## Prybars

### WARNING

- Prying can cause flying chips. Chipped or cracked prybars can cause flying chips
  - Prybars can chip if struck
- Wear safety goggles (user and bystanders).**  
**Do not use pipe or lever extension.**  
**Do not use a prybar if chipped or cracked.**  
**Do not use a prybar as a punch or hammer.**  
*Flying chips can cause injury.*

## Pullers, Presses

### WARNING

- Puller or press parts under stress can break
- Wear safety goggles (user and bystanders).**  
**Use the proper type and size puller or press.**  
**Inspect the puller, do not use puller with worn or broken parts.**  
**Screen the puller or press operation.**  
*Broken parts can cause injury.*

## Punches/Chisels (See Striking and Struck Tools)

## Ratchets

### WARNING

- Ratchet mechanism may slip or break if dirty or worn
  - Mismatched or partially worn parts can cause ratchet to slip or break
- Frequently inspect, clean and lubricate all non-sealed ratchet mechanisms with light oil.**  
**Do not immerse sealed ratchet in fluids.**  
**Do not replace worn parts individually, use entire contents of the service kit.**  
*Ratchets that slip or break can cause injury.*

## Sanders

### WARNING

- Sanding disc or accessories can break if used above maximum rated RPM.
- Do not use sanding discs or accessories above their maximum rated RPM.**  
*Broken sanding disc or accessories can cause injury.*
  - Sanding produces particles and dust

**Wear safety goggles or a safety shield.**  
**Wear a dust mask or respirator.**  
*Some dust created by sanding may contain chemicals known to produce cancer or other health concerns.*
  - Misuse of grinding wheels on sanders may result in wheel breakage.

**Do not use grinding wheels on sanders.**  
*Broken grinding wheels can cause serious injury.*

## Scrapers

### WARNING

- Scrapers and putty knives can break if used for prying or chiseling
- Wear safety goggles (user and bystanders).**  
**Do not use a scraper or putty knife as a prybar or chisel.**  
*Broken tools can cause injury.*

## Screwdrivers

### WARNING

- Screwdrivers can break if used as prybar, chisel or punch
- Wear safety goggles (user and bystanders).**  
**Do not use a screwdriver as a prybar, chisel or punch.**  
*Broken screwdriver can cause injury.*
  - Plastic screwdriver handles do not provide electrical insulation

**Do not use on or near live electrical circuits.**  
*Electrical shock can cause injury.*

## Socket Usage

- Select the proper type of socket for the application.**
- **Hand Sockets** – All chrome-plated sockets and black finished sockets identified as hand sockets are for hand use only
  - **Power Sockets** – Sockets designed and intended for use with power nut runners; do not use with impact drivers
  - **Impact Sockets** – Sockets designed for durability when used with impact drivers; use only impact sockets with impact drivers
  - Flexible sockets can cause injury when used with impact or power drivers.
- Do not hold flexible sockets or swivel joint tools during use.**  
*Rotating socket can cause hand injury.*



## Sockets, Power

### WARNING



- Power sockets or accessories can break if used on impact drivers

**Wear safety goggles (user and bystanders).**



**Do not use power sockets or accessories with impact drivers.**

*Broken tools can cause injury.*

• Holding a rotating tool can cause entanglement

*Rotating power tools can cause injury.*

## Striking and Struck Tools, Punches/Chisels

### WARNING



- Striking and struck tools can break or chip
- Chipped or mushroomed punch and chisel ends or metal weakened by improper grinding can fragment
- Oversized hammer can chip the punch or chisel

**Wear safety goggles (user and bystanders).**

**Do not use punch or chisel having mushroomed ends; dress edges or mushroomed ends to original shape with a hand file.**

**Do not misuse a chisel as a punch. Do not use chisels on bearings or other items that are harder than the chisel. Hammer head diameter should be approximately 3/8" larger than head of punch or chisel.**

*Flying objects can cause injury.*

- Steel punches and chisels can cause sparks during use



**Do not use near flammable substance.**

*Flammable substances can ignite causing injury.*

## Hammers

### WARNING



- Hammers can cause flying chips.
- Chipped, mushroomed or cracked hammers can cause flying chips
- Glancing blows can cause flying chips
- Striking hard surface can cause flying chips
- Body hammers can chip or break if struck against hard surfaces

**Wear safety goggles (user and bystanders).**

**Do not use chipped, mushroomed or cracked hammers.**

**Strike squarely and avoid glancing blows.**



**Do not strike other hammers or similar hard surfaces.**

**Do not use hammer for removing ball joints, use appropriate tool.**

**Use body hammers only for striking automotive-type sheet metal; do not strike hard surfaces.**

*Flying chips can cause injury.*

- Steel hammers can cause sparks during use



**Do not use near flammable substance.**

*Flammable substances can ignite causing injury.*

- COMPOTHANE® or urethane hammers can rupture or ignite if exposed to liquid oxygen

**Do not use COMPOTHANE or urethane hammers near liquid oxygen.**

*Ruptured and/or ignited COMPOTHANE or urethane can cause injury.*

## Tire Changers

### DANGER



- Tires can explode

**Wear safety goggles.**

**Do not over-pressurize tire, use the inflation-limiting feature on the tire changer.**



**Do not mismatch tires and rims.**

**Read and follow all safety precautions in user's manual**



*Exploding tire can cause serious injury.*

## Tool Storage Units

### WARNING



- Storage units can tip or strike you
- Do not open more than one loaded drawer at a time.**



**Keep children away.**

**Close lid and lock drawers and doors before moving.**



**Apply brakes on locking casters when not moving unit.**

**Do not step in or on drawers.**

**Units to be used on level ground only. Secure units together with fasteners.**



**Read and follow instruction manual**

*Tipping of storage unit or unit striking you can cause injury.*



- Units edges can cut or pinch

**Do not pull; push to move.**



**Wear gloves when lifting by edges.**

**Keep feet and fingers clear of edges when stacking, hanging or moving units.**

*Unit edges can cause injury.*

## Torque Sticks

### WARNING



- The actual torque delivered to a fastener by a torque stick or torque extension depends on proper usage.



**Read and follow all instructions.**

**Check final torque with a torque wrench**

*Improper torque can cause fastener loosening or breakage resulting in injury.*

## Torque Testers

### WARNING



- Calibration weights can cause tester and its base to tip.



**Wear safety goggles (user and bystanders).**

**Counterbalance or anchor mounting base.**

*Tipping base can cause injury.*

## Torque Wrenches

### WARNING



- Overtorquing can cause breakage

• Wrench can break while breaking fasteners loose

• Force against flex stops on flex head torque wrenches can cause head breakage



- An out-of-calibration torque wrench can cause part or tool breakage



**Wear safety goggles (user and bystanders).**

**Do not exceed rated torque.**

**Do not use a torque wrench to break fasteners loose.**

**Do not force head of flex head torque wrenches against stops.**

**Periodic recalibration is necessary to maintain accuracy.**

*Broken tools can cause injury.*

## Welders, Cutters Electric, Plasma

### DANGER



- Electric welding or plasma cutting causes ultraviolet rays, localized magnetic fields, sparks, weld spatter and hazardous vapors and may cause electrical shock



- Bystanders will be exposed

**Wear welding helmet with appropriate shade lens while welding or cutting. Wear gloves and protective clothing. Use only in well-ventilated area. Do not allow bystanders in area while welding or cutting.**

**Do not operate this equipment if you have an implanted electromechanical device.**

**Never coil electrode/torch lead around your body.**

**Read and follow all safety precautions in instructions.**

*Ultraviolet rays will burn eyes, magnetic field may affect operation of medical devices. Weld spatter, electrical shock or sparks can cause burns or other injuries.*

## Gas, Welding and Plasma Cutting

### WARNING



- Welding and cutting produce heat, weld spatter and hazardous vapors



**Wear gloves, face shield and protective clothing.**



**Use only in well-ventilated area.**



**Do not allow bystanders in immediate area.**

**Read and follow all safety precautions in instructions.**

*Byproducts of welding or cutting can cause burns or other bodily injuries.*

## Wheel Alignment Tools

### WARNING



- Suspension springs can slip out of engagement with spring compressors
- Follow instruction and assure that spring is properly engaged with the compressor.**



**Wear safety goggles (user and bystanders).**

- WA92 can break or disengage from spring if torqued over 30 lb ft

**Do not torque WA92 over 30 lb-ft**

*Broken compressor or disengaged spring can cause injury.*

## Wheel Balancers

### WARNING



- Misuse of wheel balancer can result in accidents

**Do not disable or by-pass the hood safety interlock system.**



**Do not use on wet surfaces or below grade.**



**Read and follow all instructions.**

*Personal injury can result from improper use.*



**Improperly balanced tires can cause vehicle accidents.**

## Wrenches

### WARNING



- Excess force can cause crowfoot or flare nut wrench slippage



- Wrenches can break if overloaded



• Slimline wrenches have limited torque strength

**Wear safety goggles (user and bystanders).**

**Do not use "cheater bars" on any wrench.**

**Use only moderate force on crowfoot, flare nut and slimline wrenches.**

**Broken or slipping wrenches can cause injury.**

- User can fall if fastener suddenly breaks loose or wrench jaw slips or breaks

**Pull, do not push, on wrench handle.**

*Injury can occur if user loses balance.*

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 BT1360 ..... BR RETAIN ..... 813  
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 S6109A ..... SOCKET ..... 690  
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 SNS2467 ..... 4 LG 4WD SPIN ..... 690  
 SNS2770 ..... 6 LG 4WD SPIN ..... 690  
 SNS3195 ..... 4 LG W EXT SPIN ..... 690

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 S6110A ..... BR WR ..... 807, 814  
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 CJ124A ..... P/S PULLER ..... 461, 775  
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 S6109A ..... SOCKET..... 690

S6146..... SOCKET..... 690  
SIMDM300 ..... 1/2D 30MM ..... 238, 691  
SIMM360TW..... 1/2D 36MM ..... 691  
SNS2467 ..... 4 LG 4WD SPDL ..... 690  
SNS2770 ..... 6 LG 4WD SPDL ..... 690  
SNS3246 ..... 4 WD SPDL NT ..... 690  
WA7500..... GM STRUT TL ..... 700  
YA2223..... 15.5MM TIE R ..... 699  
YA2224..... TIE ROD WR ..... 699

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PFMTS4E ..... MTS4E SPR ..... 193  
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BJP1-24A..... BALL JNT ADPT. 695, 696  
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**Nissan®/Subaru®**

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YA8610B..... 7PC BRAKE CA ..... 812

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SVT262-28A ..... COOLING SYS ..... 741, 742  
SVT262-29..... RAD CAP ADP ..... 742

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S6193 ..... 10MM SOCKET ..... 774  
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SGTT6A ..... TERM TOOL ..... 634

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BJR1..... BALL JNT SOC ..... 697  
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ADT30KT..... ALT PULLEY KIT ..... 775  
S6193 ..... 10MM SOC ..... 774

S6194 ..... 12MM SOC ..... 488, 774  
SADM10E..... 10MM DLB HEX..... 232  
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SGTT110 ..... 10PC TERMINA..... 634

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B2193 ..... 3/8DR 5PT ..... 693  
LSR1560 ..... THINWALL FLI ..... 686  
LSRM2000 ..... METRIC LUGNU..... 686  
SIMDM300 ..... 1/2D 30M ..... 238, 691  
YA2218 ..... 18MM TIE ROD ..... 699

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S8703 ..... SOCKET..... 825

**Brake**

BBW1270 ..... 3PC 11MM BR B..... 814  
S6111 ..... BR WR 11M ..... 680  
YA8610B..... 7PC BR CA ..... 812

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HCP10..... PLIERS ..... 748  
SVT262-21 ..... ADAPTER ..... 743  
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SGTT110..... 10PC TERM ..... 634

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IMDM320 ..... 32MM 1/2D  
..... 236, 238, 691  
SIMDM300 ..... 1/2DR 30M ..... 238, 691

**Transmission/Drive Line**

FHRM7 ..... 7MM 3/8D..... 706

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|--|---|
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| Trailer Harness Testers and Adaptors (YA7900A, YA7900AP, LT series)                  | 1-888-786-7899                                |
| Handheld Gas Analyzers (all HHGA)  | 1-888-717-1333                                |
| Carbon Monoxide Analyzer (MT706A)  | 1-888-382-6522                                |
| Diagnostic Smoke™ Vapor Producing Machines   | 1-800-901-1988                                |
| Battery Chargers (EEBC100, 400, 500 and accessories)                                 | 1-866-713-6007                                |
| Electronic Battery Tester (EECS150, 350, 550, 750, DTac and microvat)                | 1-866-592-8052                                |
| ECO™ PLUS A/C Service Center, KoolKare Plus (EEAC325A, EEAC325B, EEAC324A, EEAC324B) | 1-866-769-2788                                |
| Wheel Balancers and Tire Chargers  | 1-800-225-5786                                |
| Pin Plates and Collet Sets (EEWB3-1A and EEWB3-4)                                    | 1-800-242-6687                                |
| TPMS3 Technical Support  | 1-888-621-8767                                |
| MIG/TIG Welders and Plasma Cutters   | 1-800-ABC-WELD                                |
| Heavy Duty Transmission Fluid Exchangers (EETF303B, EETF304B, EETF306A)              | 1-800-303-5874                                |
| BrakeKare™ Brake Flush System (EEBR311A)   | 1-800-393-1272 ext. 230                       |
| TransKare™ 1 ATF Exchanger (EETF305A)  | 1-877-906-1395, press 3 for technical support |
| FuelKare™ Fuel Service System (EEFS305A)   | 1-877-906-1395, press 3 for technical support |
| Fuel System Decarbonizer (EEFS505A)  | 1-877-776-8486                                |
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| Solvent Based Parts Washers (all PBC and PBD washers)                                | 1-800-253-3661                                |
| Gauge Sets (Compression, Fuel Injection and Pressure)                                | 1-855-779-8880                                |

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For specific product warranty information contact your franchisees or Snap-on Customer Care Center via 1-877-762-7664 or email: ncccsupport@snapon.com

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For customers not serviced by a Snap-on franchisee or representative, contact the Snap-on Customer Care Center via telephone at 1-877-762-7664 or e-mail ncccsupport@snapon.com. Outside North America, contact the closest sales office shown on pages G2-G3. The following information will be required with customer's warranty request: (1) date and proof of purchase, (2) where customer purchased the product, (3) full name, (4) shipping address, (5) phone number, (6) e-mail address, and (7) item number(s) or approximate weight of return package. Warranty requests that do not include all the required information will not be processed. Once the warranty request is validated, the customer will be provided a RGA number and will be sent a shipping label either electronically through e-mail or through the US mail, and must ship the product to Snap-on. Upon receipt of the product, the warranty claim will be reviewed and the product will be inspected. If the warranty request is found to be valid, the product will be repaired and returned to the customer or a replacement product or refund will be shipped to the customer. If the warranty claim is found to be invalid, the original product will be returned to the customer. By repairing or replacing a product, or providing a refund, Snap-on does not waive a claim that a product nevertheless has been subject to abnormal use.

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## Your Safety Is Important To Us

Personal safety and the proper use of tools and equipment are reflected in safety statements found throughout this catalog. More safety precautions for these products are detailed on pages W1 to W4.

Using the right tool and using it properly for the job it is designed for are both very important. It will help to safeguard the user as well as the tools and equipment.

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# Showing Millimeter Sizes, Fractional and Decimal Inch Sizes, and Drill Number Sizes

Note: To convert from inches to millimeters, multiply by 25.4; to convert from millimeters to inches, multiply by 0.03937

| M    | DE     | F    | DN | M    | DE     | F    | DN | M    | DE     | F     | DN | M     | DE     | F     | DN | M     | DE     | F      | M     | DE     | F       |
|------|--------|------|----|------|--------|------|----|------|--------|-------|----|-------|--------|-------|----|-------|--------|--------|-------|--------|---------|
| 0.10 | 0.0039 | —    | —  | 1.85 | 0.0728 | —    | —  | —    | 0.1660 | —     | 19 | 7.25  | 0.2854 | —     | —  | 13.49 | 0.5313 | 17/32  | 35.00 | 1.3780 | —       |
| 0.15 | 0.0059 | —    | —  | —    | 0.0730 | —    | 49 | 4.25 | 0.1673 | —     | —  | 7.30  | 0.2874 | —     | —  | 13.50 | 0.5315 | —      | 36.00 | 1.4173 | —       |
| 0.20 | 0.0079 | —    | —  | 1.90 | 0.0748 | —    | —  | 4.30 | 0.1693 | —     | —  | —     | 0.2900 | —     | L  | 13.89 | 0.5469 | 35/64  | 36.51 | 1.4375 | 1 7/16  |
| 0.25 | 0.0098 | —    | —  | —    | 0.0760 | —    | 48 | —    | 0.1695 | —     | 18 | 7.40  | 0.2913 | —     | —  | 14.00 | 0.5512 | —      | 37.00 | 1.4567 | —       |
| 0.30 | 0.0118 | —    | —  | 1.95 | 0.0768 | —    | —  | 4.37 | 0.1719 | 11/64 | —  | —     | 0.2950 | —     | M  | 14.29 | 0.5625 | 9/16   | 38.00 | 1.4961 | —       |
| —    | 0.0135 | —    | 80 | 1.98 | 0.0781 | 5/64 | —  | —    | 0.1730 | —     | 17 | 7.50  | 0.2953 | —     | —  | 14.50 | 0.5709 | —      | 38.10 | 1.5000 | 1 1/2   |
| 0.35 | 0.0138 | —    | —  | —    | 0.0785 | —    | 47 | 4.40 | 0.1732 | —     | —  | 7.54  | 0.2969 | 19/64 | —  | 14.68 | 0.5781 | 37/64  | 39.00 | 1.5354 | —       |
| —    | 0.0145 | —    | 79 | 2.00 | 0.0787 | —    | —  | —    | 0.1770 | —     | 16 | 7.60  | 0.2992 | —     | —  | 15.00 | 0.5906 | —      | 39.69 | 1.5625 | 1 9/16  |
| 0.40 | 0.0156 | 1/64 | —  | 2.05 | 0.0807 | —    | —  | 4.50 | 0.1772 | —     | —  | —     | 0.3020 | —     | N  | 15.08 | 0.5938 | 19/32  | 40.00 | 1.5748 | —       |
| 0.40 | 0.0157 | —    | —  | —    | 0.0810 | —    | 46 | —    | 0.1800 | —     | 15 | 7.70  | 0.3031 | —     | —  | 15.48 | 0.6094 | 39/64  | 41.00 | 1.6142 | —       |
| —    | 0.0160 | —    | 78 | —    | 0.0820 | —    | 45 | 4.60 | 0.1811 | —     | —  | 7.75  | 0.3051 | —     | —  | 15.50 | 0.6102 | —      | 41.28 | 1.6250 | 1 5/8   |
| 0.45 | 0.0177 | —    | —  | 2.10 | 0.0827 | —    | —  | —    | 0.1820 | —     | 14 | 7.80  | 0.3071 | —     | —  | 15.88 | 0.6250 | 5/8    | 42.00 | 1.6535 | —       |
| —    | 0.0180 | —    | 77 | 2.15 | 0.0846 | —    | —  | 4.70 | 0.1850 | —     | 13 | 7.90  | 0.3110 | —     | —  | 16.00 | 0.6299 | —      | 42.86 | 1.6875 | 1 11/16 |
| 0.50 | 0.0197 | —    | —  | —    | 0.0860 | —    | 44 | 4.75 | 0.1870 | —     | —  | 7.94  | 0.3125 | 5/16  | —  | 16.27 | 0.6406 | 41/64  | 43.00 | 1.6929 | —       |
| —    | 0.0200 | —    | 76 | 2.20 | 0.0866 | —    | —  | 4.76 | 0.1875 | 3/16  | —  | 8.00  | 0.3150 | —     | —  | 16.50 | 0.6496 | —      | 44.00 | 1.7323 | —       |
| —    | 0.0210 | —    | 75 | 2.25 | 0.0886 | —    | —  | 4.80 | 0.1890 | —     | 12 | —     | 0.3160 | —     | O  | 16.67 | 0.6563 | 21/32  | 44.45 | 1.7500 | 1 3/4   |
| 0.55 | 0.0217 | —    | —  | —    | 0.0890 | —    | 43 | —    | 0.1910 | —     | 11 | 8.10  | 0.3189 | —     | —  | 17.00 | 0.6693 | —      | 45.00 | 1.7717 | —       |
| —    | 0.0225 | —    | 74 | 2.30 | 0.0906 | —    | —  | 4.90 | 0.1929 | —     | —  | 8.20  | 0.3228 | —     | —  | 17.07 | 0.6719 | 43/64  | 46.00 | 1.8110 | —       |
| 0.60 | 0.0236 | —    | —  | 2.35 | 0.0925 | —    | —  | —    | 0.1935 | —     | 10 | —     | 0.3230 | —     | P  | 17.46 | 0.6875 | 11/16  | 46.04 | 1.8125 | 1 13/16 |
| —    | 0.0240 | —    | 73 | —    | 0.0935 | —    | 42 | —    | 0.1960 | —     | 9  | 8.25  | 0.3248 | —     | —  | 17.50 | 0.6890 | —      | 47.00 | 1.8504 | —       |
| —    | 0.0250 | —    | 72 | 2.38 | 0.0938 | 3/32 | —  | 5.00 | 0.1969 | —     | —  | 8.30  | 0.3268 | —     | —  | 17.86 | 0.7031 | 45/64  | 47.63 | 1.8750 | 1 7/8   |
| 0.65 | 0.0256 | —    | —  | 2.40 | 0.0945 | —    | —  | —    | 0.1990 | —     | 8  | 8.33  | 0.3281 | 21/64 | —  | 18.00 | 0.7087 | —      | 48.00 | 1.8898 | —       |
| —    | 0.0260 | —    | 71 | —    | 0.0960 | —    | 41 | 5.10 | 0.2008 | —     | —  | 8.40  | 0.3307 | —     | —  | 18.26 | 0.7188 | 23/32  | 49.00 | 1.9291 | —       |
| 0.70 | 0.0276 | —    | —  | 2.45 | 0.0965 | —    | —  | —    | 0.2010 | —     | 7  | —     | 0.3320 | —     | Q  | 18.50 | 0.7283 | —      | 49.21 | 1.9375 | 1 15/16 |
| —    | 0.0280 | —    | 70 | —    | 0.0980 | —    | 40 | 5.16 | 0.2031 | 13/64 | —  | 8.50  | 0.3346 | —     | —  | 18.65 | 0.7344 | 47/64  | 50.00 | 1.9685 | —       |
| —    | 0.0292 | —    | 69 | 2.50 | 0.0984 | —    | —  | —    | 0.2040 | —     | 6  | 8.60  | 0.3386 | —     | —  | 19.00 | 0.7480 | —      | 50.80 | 2.0000 | 2       |
| 0.75 | 0.0295 | —    | —  | —    | 0.0995 | —    | 39 | 5.20 | 0.2047 | —     | —  | —     | 0.3390 | —     | R  | 19.05 | 0.7500 | 3/4    | 51.00 | 2.0079 | —       |
| —    | 0.0310 | —    | 68 | —    | 0.1015 | —    | 38 | —    | 0.2055 | —     | 5  | 8.70  | 0.3425 | —     | —  | 19.45 | 0.7656 | 49/64  | 52.00 | 2.0472 | —       |
| 0.79 | 0.0313 | 1/32 | —  | 2.60 | 0.1024 | —    | —  | 5.25 | 0.2067 | —     | —  | 8.73  | 0.3438 | 11/32 | —  | 19.50 | 0.7677 | —      | 52.39 | 2.0625 | 2 1/16  |
| 0.80 | 0.0315 | —    | —  | —    | 0.1040 | —    | 37 | 5.30 | 0.2087 | —     | —  | 8.75  | 0.3445 | —     | —  | 19.84 | 0.7813 | 25/32  | 53.00 | 2.0866 | —       |
| —    | 0.0320 | —    | 67 | 2.70 | 0.1063 | —    | —  | —    | 0.2090 | —     | 4  | 8.80  | 0.3465 | —     | —  | 20.00 | 0.7874 | —      | 53.98 | 2.1250 | 2 1/8   |
| —    | 0.0330 | —    | 66 | —    | 0.1065 | —    | 36 | 5.40 | 0.2126 | —     | —  | —     | 0.3480 | —     | S  | 20.24 | 0.7969 | 51/64  | 54.00 | 2.1260 | —       |
| 0.85 | 0.0335 | —    | —  | 2.75 | 0.1083 | —    | —  | —    | 0.2130 | —     | 3  | 8.90  | 0.3504 | —     | —  | 20.50 | 0.8071 | —      | 55.00 | 2.1654 | —       |
| —    | 0.0350 | —    | 65 | 2.78 | 0.1094 | 7/64 | —  | 5.50 | 0.2165 | —     | —  | 9.00  | 0.3543 | —     | —  | 20.64 | 0.8125 | 13/16  | 55.56 | 2.1875 | 2 3/16  |
| 0.90 | 0.0354 | —    | —  | —    | 0.1100 | —    | 35 | 5.56 | 0.2188 | 7/32  | —  | —     | 0.3580 | —     | T  | 21.00 | 0.8268 | —      | 56.00 | 2.2047 | —       |
| —    | 0.0360 | —    | 64 | 2.80 | 0.1102 | —    | —  | 5.60 | 0.2205 | —     | —  | 9.10  | 0.3583 | —     | —  | 21.03 | 0.8281 | 53/64  | 57.00 | 2.2441 | —       |
| —    | 0.0370 | —    | 63 | —    | 0.1110 | —    | 34 | —    | 0.2210 | —     | 2  | 9.13  | 0.3594 | 23/64 | —  | 21.43 | 0.8438 | 27/32  | 57.15 | 2.2500 | 2 1/4   |
| 0.95 | 0.0374 | —    | —  | —    | 0.1130 | —    | 33 | 5.70 | 0.2244 | —     | —  | 9.20  | 0.3622 | —     | —  | 21.50 | 0.8465 | —      | 58.00 | 2.2835 | —       |
| —    | 0.0380 | —    | 62 | 2.90 | 0.1142 | —    | —  | 5.75 | 0.2264 | —     | —  | 9.25  | 0.3642 | —     | —  | 21.83 | 0.8594 | 55/64  | 58.74 | 2.3125 | 2 5/16  |
| —    | 0.0390 | —    | 61 | —    | 0.1160 | —    | 32 | —    | 0.2280 | —     | 1  | 9.30  | 0.3661 | —     | —  | 22.00 | 0.8661 | —      | 59.00 | 2.3228 | —       |
| 1.00 | 0.0394 | —    | —  | 3.00 | 0.1181 | —    | —  | 5.80 | 0.2283 | —     | —  | —     | 0.3680 | —     | U  | 22.23 | 0.8750 | 7/8    | 60.00 | 2.3622 | —       |
| —    | 0.0400 | —    | 60 | —    | 0.1200 | —    | 31 | 5.90 | 0.2323 | —     | —  | 9.40  | 0.3701 | —     | —  | 22.50 | 0.8858 | —      | 60.33 | 2.3750 | 2 3/8   |
| —    | 0.0410 | —    | 59 | 3.10 | 0.1220 | —    | —  | —    | 0.2340 | —     | A  | 9.50  | 0.3740 | —     | —  | 22.62 | 0.8906 | 57/64  | 61.00 | 2.4016 | —       |
| 1.05 | 0.0413 | —    | —  | 3.18 | 0.1250 | 1/8  | —  | 5.95 | 0.2344 | 15/64 | —  | 9.53  | 0.3750 | 3/8   | —  | 23.00 | 0.9055 | —      | 61.91 | 2.4375 | 2 7/16  |
| —    | 0.0420 | —    | 58 | 3.20 | 0.1260 | —    | —  | 6.00 | 0.2362 | —     | —  | —     | 0.3770 | —     | V  | 23.02 | 0.9063 | 29/32  | 62.00 | 2.4409 | —       |
| —    | 0.0430 | —    | 57 | 3.25 | 0.1280 | —    | —  | —    | 0.2380 | —     | B  | 9.60  | 0.3780 | —     | —  | 23.42 | 0.9219 | 59/64  | 63.00 | 2.4803 | —       |
| 1.10 | 0.0433 | —    | —  | —    | 0.1285 | —    | 30 | 6.10 | 0.2402 | —     | —  | 9.70  | 0.3819 | —     | —  | 23.50 | 0.9252 | —      | 63.50 | 2.5000 | 2 1/2   |
| 1.15 | 0.0453 | —    | —  | 3.30 | 0.1299 | —    | —  | —    | 0.2420 | —     | C  | 9.75  | 0.3838 | —     | —  | 23.81 | 0.9375 | 15/16  | 64.00 | 2.5197 | —       |
| —    | 0.0465 | —    | 56 | 3.40 | 0.1339 | —    | —  | 6.20 | 0.2441 | —     | —  | 9.80  | 0.3858 | —     | —  | 24.00 | 0.9449 | —      | 65.00 | 2.5591 | —       |
| 1.19 | 0.0469 | 3/64 | —  | —    | 0.1360 | —    | 29 | 6.25 | 0.2460 | —     | D  | —     | 0.3860 | —     | W  | 24.21 | 0.9531 | 61/64  | 65.09 | 2.5625 | 2 9/16  |
| 1.20 | 0.0472 | —    | —  | 3.50 | 0.1378 | —    | —  | 6.30 | 0.2480 | —     | —  | 9.90  | 0.3898 | —     | —  | 24.50 | 0.9646 | —      | 66.00 | 2.5984 | —       |
| 1.25 | 0.0492 | —    | —  | —    | 0.1405 | —    | 28 | 6.35 | 0.2500 | 1/4   | E  | 9.92  | 0.3906 | 25/64 | —  | 24.61 | 0.9688 | 31/32  | 66.68 | 2.6250 | 2 5/8   |
| 1.30 | 0.0512 | —    | —  | 3.57 | 0.1406 | 9/64 | —  | 6.40 | 0.2520 | —     | —  | 10.00 | 0.3937 | —     | —  | 25.00 | 0.9843 | —      | 67.00 | 2.6378 | —       |
| —    | 0.0520 | —    | 55 | 3.60 | 0.1417 | —    | —  | 6.50 | 0.2559 | —     | —  | —     | 0.3970 | —     | X  | 25.00 | 0.9844 | 63/64  | 68.00 | 2.6772 | —       |
| 1.35 | 0.0531 | —    | —  | —    | 0.1440 | —    | 27 | —    | 0.2570 | —     | F  | —     | 0.4040 | —     | Y  | 25.40 | 1.0000 | 1      | 68.26 | 2.6875 | 2 11/16 |
| —    | 0.0550 | —    | 54 | 3.70 | 0.1457 | —    | —  | 6.60 | 0.2598 | —     | —  | 10.32 | 0.4063 | 13/32 | —  | 26.00 | 1.0236 | —      | 69.00 | 2.7165 | —       |
| 1.40 | 0.0551 | —    | —  | —    | 0.1470 | —    | 26 | —    | 0.2610 | —     | G  | —     | 0.4130 | —     | Z  | 26.99 | 1.0625 | 1 1/16 | 69.85 | 2.7500 | 2 3/4   |
| 1.45 | 0.0571 | —    | —  | 3.75 | 0.1476 | —    | —  | 6.70 | 0.2638 | —     | —  | 10.50 | 0.4134 | —     | —  | 27.00 | 1.0630 | —      | 70.00 | 2.7559 | —       |
| 1.50 | 0.0591 | —    | —  | —    | 0.1495 | —    | 25 | 6.75 | 0.2656 | 17/64 | —  | 10.72 | 0.4219 | 27/64 | —  | 28.00 | 1.1024 | —      | 71.00 | 2.7953 | —       |
| —    | 0.0595 | —    | 53 | 3.80 | 0.1496 | —    | —  | 6.75 | 0.2657 | —     | —  | 11.00 | 0.4331 | —     | —  | 28.58 | 1.1250 | 1 1/8  | 71.44 | 2.8125 | 2 13/16 |
| 1.55 | 0.0610 | —    | —  | —    | 0.1520 | —    | 24 | —    | 0.2660 | —     | H  | 11.11 | 0.4375 | 7/16  | —  | 29.00 | 1.1417 | —      | 72.00 | 2.8346 | —       |
| 1.59 | 0.0625 | 1/16 | —  | 3.90 | 0.1535 | —    | —  | 6.80 | 0.2677 | —     | —  | 11.50 | 0.4528 | —     | —  | 30.00 | 1.1811 | —      | 73.00 | 2.8740 | —       |
| 1.60 | 0.0630 | —    | —  | —    | 0.1540 | —    | 23 | 6.90 | 0.2717 | —     | —  | 11.51 | 0.4531 | 29/64 | —  | 30.16 | 1.1875 | 1 3/16 | 73.03 | 2.8750 | 2 7/8   |
| —    | 0.0635 | —    | 52 | 3.97 | 0.1563 | 5/32 | —  | —    | 0.2720 | —     | I  | 11.91 | 0.4688 | 15/32 | —  | 31.00 | 1.2205 | —      | 74.00 | 2.9134 | —       |
| 1.65 | 0.06   |      |    |      |        |      |    |      |        |       |    |       |        |       |    |       |        |        |       |        |         |



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