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Valve Spring Compressors

Lisle Compressor simplifies spring compression and removing keepers. No need to remove the head. Adjustable cam action. No need to readjust the tool after each spring.

Stk. **503822** Mfg. 16750..... **\$ 41.10**



Lisle High leverage compressor allows 1-hand use. Exceptionally strong, rigid frame works with nearly all valve-in head and L-head engines as well as truck and tractor engines.

Stk. **503869** Mfg. 44300..... **\$ 93.30**

Piston Ring Tools

Piston Ring Groove Cleaner

Lisle Heavy coil spring holds cutter in groove for fast removal of carbon. Handles pistons from 2-3/4" to 5" dia. Groover includes 2 easy-to-set cutter wheels with the following sizes: 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 1.5mm, 1.75mm and 2.00mm.

Stk. **503840** Mfg. 24000..... **\$ 25.10**



Ring Compressors

Lisle Spring clutch assures proper fit on the piston and positive locking action. Designed to eliminate ratchet problems.

Stk.	Mfg.	Capacity (dia.)	Height	Price
503831	21000	3-1/2" to 7"	7".....	\$ 35.10
503824	19500	2-1/8" to 5"	3-1/2"...	15.60

503831



Lisle Take-apart Ring Compressor Combines the spring clutch with take-apart feature necessary for Volkswagens, motorcycles, outboard motors, etc. Quick release provides easy removal from connecting rod. Can be used on conventional engines with narrow ring spacing.

Stk. **503821** Mfg. 19000..... range 2-1/8" to 5" **\$ 18.60**

Lisle Wrinkle Band Ring Compressor Cuts friction in half. Rings slide in easily. Wrinkle band can't slide into the cylinder. Cam operation requires 1 adjustment for a set of pistons.

Stk. **503837** Mfg. 21700.... range 3" to 5" **\$ 16.80**



Piston Ring Tools, cont.

Piston Ring Installer

Lisle Tapered jaws remove and install most rings from 3/64" to 1/4" in passenger cars and light trucks. Reduces breakage of rings during installation.

Stk. **503858** Mfg. 33500..... **\$ 7.28**



Ridge Reamer

Lisle Complete ridge removal with a few easy turns. Stabilizer spring allows operator to take a selective cut to minimize chatter. Spring-loaded carbide cutter follows cylinder contour. Offset jaws assure rigidity throughout the range. Range 2-11/16" to 5-5/16".

Stk. **503922** Mfg. 36500..... **\$ 70.40**
 Stk. **503923** Mfg. 36510..... Replacement Cutter **13.00**



Engine Cylinder Hone

Lisle Controlled pressure assures positive, adjustable contact through full 2"-7" range. Stone arms are easily compressed to eliminate cylinder scratches. Operates with any electric drill. Stones are 3"L.

Includes three 220 grit stones.

Stk. **503823** Mfg. 23500..... **\$ 30.10**
 Stk. **503820** Mfg. 23520..... Replacement Stones, 3/set **8.29**



Feeler Gauges

Lisle Nonmagnetic 6 Blade Set Brass precision blades are nonmagnetic, for use in adjusting reductor air gap on electronic ignition systems. Blades are 1/2"W x 3"L.

Blades (in inches): .006, .008, .010, .012, .014, .016.
 Stk. **503912** Mfg. 68200..... **\$ 4.39**



Lisle 12 Blade Set w/Spark Plug Gapper

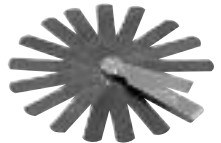
Six spark plug gap wires, electrode bending tool and 12 steel blades. Precision wires and blades for doing both spark plug and ignition system settings. Blades are 1/2"W x 3-1/2"L.

Blades (in inches): .010, .012, .015, .016, .017, .018, .019, .020, .022, .024, .025, .026.
 Gap wire sizes (in inches): .025, .030, .034, .035, .040, .045.
 Stk. **503906** Mfg. 67850..... **\$ 7.68**



Lisle 15 Blade Set Precision blades and 2" steel rule ensure accurate measurements. Blades are 1/2"W x 3-1/2"L.

Blades (in inches): .002, .003, .004, .005, .006, .008, .011, .012, .013, .014, .016, .018, .020, .022, .025.
 Stk. **503910** Mfg. 67950..... **\$ 5.68**



Lisle 16 Mini-blade Set Mini feeler gauge has precision steel blades to ensure accurate measurements. Blades are 1/4"W x 1-3/4"L.

Blades (in inches): .010, .012, .013, .015, .016, .017, .018, .020, .022, .024, .025, .026, .028, .030, .032, .035.
 Stk. **503911** Mfg. 68000..... **\$ 5.10**



Lisle 22 Blade Set Precision stepped blades have a .002" step for accurate settings. Blades from .004" to .027" are approximately 1/2"W x 3-1/4"L.

Blades (in inches): .004/.006, .005/.007, .006/.008, .007/.009, .008/.010, .009/.011, .010/.012, .011/.013, .012/.014, .013/.015, .014/.016, .015/.017, .016/.018, .017/.019, .018/.020, .019/.021, .020/.022, .021/.023, .022/.024, .023/.025, .024/.026, .025/.027.
 Stk. **503920** Mfg. 68150..... **\$ 11.80**



Feeler Gauges, cont.

Proto 25 Mini-blade Set Master gauge set is etched in thousandths and nearest metric equivalent. Blades are 1/2" W x 3-1/16" L.

Blades (in inches): .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .020, .022, .025, .030, .032, .035, .040.
Stk. **894201** Mfg. 000AA..... \$ **18.10**



General 26 Blade Set High-grade precision gauge steel blades etched in thousandths. Conforms to GGG-G-17b.

Blades (in inches): .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025.
Stk. **417975** Mfg. 226..... \$ **24.20**



Lisle 31 Blade Set Deluxe-grade precision gauge steel blades. Blades from .0015" to .035" are approximately 1/2" x 3-1/2" L.

Blades (in inches): .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .028, .030, .032, .035.

Includes .010" brass blade.
Stk. **503924** Mfg. 68100..... \$ **8.59**



Spark Plugs & Tools

Spark Plugs

Champion Small engine/lawn and garden spark plug.

Stk. 942879	Mfg. 12443.....	J8C	\$ 3.00
Stk. 942807	Mfg. 12444.....	CJ8	2.98
Stk. 942808	Mfg. 12446.....	J17LM	3.12
Stk. 942670	Mfg. 13497.....	RC14YC	3.34
Stk. 942671	Mfg. 12452.....	RJ19LM	3.92



Spark Plug Gappers



Lisle Standard Spark Plug Gapper

Includes sizes .025", .030", .034", .035", .040", .045".
Stk. **503908** Mfg. 67800..... \$ **2.63**

Lisle Electronic Ignition Spark Plug Gapper

Includes sizes .035", .040", .044", .045", .048", .050", .060", .080".
Stk. **503894** Mfg. 67900..... \$ **3.35**

Spark Plug Boot Plier

Lisle Pliers jaw adjusts to 5 different positions allowing easier access to spark plug boots. Cushioned jaws grip the boot straight on or from the side. Plastic handle grips help prevent shock.



Stk. **503880** Mfg. 51750..... \$ **28.60**

Spark Plug Hole Thread Chaser

Lisle Double ended for 14mm & 18mm threads. Cleans threads in spark plug hole. Use with 13/16" spark plug socket.



Stk. **503832** Mfg. 20200..... \$ **7.28**

Spark Plug Wire Tester

Lisle Now you can check spark plug wires without piercing the wires. Light flashes indicating a sound wire.

Stk. **503846** Mfg. 26900..... \$ **10.50**



Spark Plugs & Tools, cont.

Spark Plug Tester

Lisle Tests spark plugs, spark plug wires and coils without puncturing the wire.

Stk. **503834** Mfg. 19380..... \$ **8.98**



Spark Plug Wire Puller

Lisle Puller provides quick and easy removal of spark plug wires without damaging the wire or rubber boots. Nylon construction stops the shocks and beats the heat and burns.

Stk. **503878** Mfg. 51500..... \$ **3.78**



Clutch Alignment Tool

Lisle For faster, easier replacement of clutches. Aligns clutch plates and pilot bearings accurately. Shaft and bushings provide an accurate fit for 8 pilot bearing sizes. 2 turned sizes (1" & 1-1/8") fit 90% of the clutch plates, cone handles the rest.

Stk. **503887** Mfg. 55500..... \$ **27.60**



Scrapers

Gasket Scraper

Lisle Heavy-duty scraper with sharp, hardened steel blades remove carbon, old gasket material, adhesives, sludge and other hard to clean substances from blocks, heads, etc. Tool will hold single edge razor blade for bumper stickers and decals.

Includes 3 blades (1", 1-1/2" & 2" widths).

Stk. **503877** Mfg. 51000..... 8"L \$ **15.10**



Replacement Scraper Blades. 6/pkg.

Stk. 503879	Mfg. 51120.....	1"	\$ 3.28
Stk. 503881	Mfg. 51130.....	1-1/2"	4.82
Stk. 503883	Mfg. 51140.....	2"	5.83

Carbon Scrapers

Proto Gasket and carbon scraper has chrome-plated alloy steel blade with fire-resistant handle.

Stk. **909611** Mfg. 2336..... 12"L x 1-1/2" \$ **23.80**



Proto Flexible carbon scraper for removing carbon from contoured or flat surfaces. Flexibility of 10 individual spring steel blades is regulated with sliding steel band.

Stk. **909678** Mfg. 2337..... 9"L x 7/8" \$ **14.60**



Puller Tools

Electrical Connector Separator

Lisle Quickly disconnects electrical connectors without damage. Tool is double-ended to fit different access angles.

Stk. **503926** Mfg. 13120..... 7-5/8"L \$ **9.99**



Plastic Fuse Puller

Gardner Bender Tough, insulated fuse puller for 100-200 amp and 600V fuses. Puller adjusts to accommodate switch and fuse clips.

Stk. **416590** Mfg. FPE-20..... \$ **4.62**



Puller Tools, cont.

Cotter Pin Puller

General Ideal for use in confined work areas. Compound bend design allows user to extract cotter pins with a pull or twist motion. Heavy-duty plastic handle with comfort grip.



Stk. **417482** Mfg. 64 7-1/2"L **\$ 8.34**

Seal Puller

Lisle For oil and grease seals. Insert the tip of the tool behind the seal, press and pull. 2 tip sizes reach in and fit nearly all seal applications.



Stk. **503891** Mfg. 56750 12-1/2"L **\$ 11.00**

Steering Wheel Puller

Lisle Universal steering wheel puller for most makes and models. Screw pad protects end of steering shaft. Heavy-duty for long wear.



Stk. **503871** Mfg. 45000 **\$ 21.10**

Harmonic Balancer Puller

Lisle Tool helps stop damage to pulley and shaft. Eases the operation of pulling the balancer pulley.



Includes body, puller screw, tip assembly, 3 washers, two 3/8"-16 x 3" bolts, three 5/16"-18 x 3" bolts & three 3/8"-24 x 3" bolts.

Stk. **503873** Mfg. 45500 **\$ 30.10**

Harmonic Balancer Puller Set

Lisle Updated jaw design on damper puller provides greater strength. Clevis pins allow jaws to be quickly removed and replaced. Removes most automotive harmonic balancers.



Includes standard harmonic balancer puller, pulling screws & adapters (for 3300 & 3800 GM V6 engines) & updated harmonic damper pulley puller (for Chrysler, GM, Mitsubishi & Dodge), case.

Stk. **503811** Mfg. 51700 **\$ 150.00**

Bearing Puller

OEM For removing flywheel pilot bearings with a slide hammer similarly threaded 5/8" x 18 or 3/4" x 16. Also useful to pull bearings and bushings on motors, generators and starters. 5-7/8"L.



Stk. **281200** Mfg. 27059 11/16" to 1-1/4" capacity **\$ 19.50**

Bearing Splitter

OTC Knife-like edges easily place behind the part to secure a gripping surface, even when clearances are extremely limited. Used with OTC's Grip-O-Matic® puller (puller jaws grip attachment's outer edge), or with a Push-Puller (puller legs are threaded into the attachment's 2 tapped holes).



Stk. **693292** Mfg. 1122 1/8" to 2" capacity **\$ 44.30**

Stk. **693294** Mfg. 1123 1/2" to 4-5/8" capacity **88.00**

Pulley Puller

OEM Safely removes pressed-on 1 or 2 groove pulleys from alternators and power steering pumps. Fits most large and small pulleys in domestic and imported cars. Features rigid drop-forged jaws, solid block body and a fine thread screw for easy pulling.



Stk. **281180** Mfg. 25190 **\$ 29.20**

10-Ton Push Puller

OTC Removes and installs press-fit parts. Can be used with OTC Bearing Puller (1123). Reach 8-1/4".

Stk. **693296** Mfg. 927 ... spread 2-1/8" to 7-1/4" **\$ 167.00**



2-in-1 Tool Handles "Inside" & "Outside" Pulling Jobs Slide Hammer Puller & Sets

Proto Versatile tool for pulling jobs involving gears, bearings, outer races, grease retainers, oil seals, etc. Use 2 or 3 puller jaws for inside jobs such as bearing cups and outer races.



• 5 lb. slide hammer is removable for independent use

• 2 jaw capacity (inside 1-1/4" to 3-1/2", outside 1" to 4-1/2")

• 3 jaw capacity (1-1/2" to 4-1/4", outside 1-1/2" to 4-1/2")

Stk. **924030** Mfg. 5049 27"L **\$ 166.00**



Silver Slapper 8-Way Slide Hammer Puller Set

OTC For pulling flange-type rear axles, stubborn oil seals and bearings, and other press-fit parts. Jaws can be set up for 2- or 3-way internal or external pulling jobs.

Includes

• 5 lb. slide hammer puller

• 3-way cross-head

• 2-way cross-block

• 3 pulling jaws for internal or external pulling jobs

• grip wrench adapter w/single lead (wrench sold separately)

• rear axle pulling attachment

• dent puller attachment

• puller hook attachment

• cone

Stk. **693293** Mfg. 1179 **\$ 149.00**

Multipurpose Puller Set

OTC Assortment of puller tools provides a wide range of job versatility.

• 5 lb. slide hammer puller w/2- & 3-way reversible heads (2 or 3 jaws for inside & outside pulling jobs)

• Front hub puller for servicing front-wheel-drive cars (has spare lock-nut for use w/No. 1177 slide hammer for rear axle flanges)

• 2-ton combination, 2- or 3-jaw Grip-O-Matic® puller (3-3/8" reach, 4-3/4" spread)

• 5-ton combination 2- or 3-jaw Grip-O-Matic® puller (5-1/2" reach, 7" spread)

• Bar-type gear & pulley puller with 5-1/2"L screw & 2 hex head cap screws (3/8"-16" x 3"L, 1-1/2" to 4-1/4" spread)

• Bearing pulling attachment (use w/No. 1027 & 7393 pullers for 1/8" to 2" spread)

Includes 5 lb. hammer puller, hub puller, 2 sizes of OTC Grip-O-Matic jaw-type pullers, a bearing pulling attachment, cross-bar gear, pulley puller & molded case.

Stk. **693295** Mfg. 1181 **\$ 435.00**



Pitman Arm Pullers

Lisle For Cars & Trucks Designed to work on even the most stubborn Pitman arm pulling jobs. Body is drop-forged and heat-treated for strength. 4-1/4"L. 1-5/16" jaw opening.

Stk. **503921** Mfg. 41900 **\$ 32.10**



Zim Takes dia. up to 6". Equipped with 1 pair of 3" arms. Crossbeam made of malleable iron. Drop-forged steel jaws. For timing gears, pump shaft and magnet gears, generator and starter repairs.

Stk. **988407** Mfg. 601 **\$ 35.00**



Puller Tools, cont.

5-Ton, 2 Jaw Grip-O-Matic® Parts Puller

OTC Mechanical puller removes and installs parts for fast, effective repairs. Forged from quality steel and heat treated. Reversible jaws. Exceeds rated capacity testing.

Stk. **693291** Mfg. 1024... 3-1/4" reach, 6" spread **\$ 47.60**



Quick Change Gear Pullers

Proto Toggle type pullers incorporate an automatic grip tightening feature. They provide the means and power to pull gears, flywheels, pulleys and other parts where it is necessary to apply the arms between spokes and where no other puller can be applied.

Pullers adjust and reverse using 3 parts: link with locking pin; link with 2 grooved pins and the jaw. Pullers have fewer parts, including pins that are pressed into the link. Forcing screws are forged from alloy steel and heat-treated.



Stk.	Mfg.	Spread	Reach	Forcing Screw L.	Thread	Cap'y.	Price
2 Jaw Puller							
913970	4033	4"	3-1/2"	4-3/4"	3/8"-24	2 ton	\$ 51.50
3 Jaw Puller							
913974	4038	11"	9"	9"	11/16"-18	7 ton	\$ 165.00
3 Jaw Reversible Pullers							
913989	4046	7"	5-1/2"	7"	9/16"-20	5 ton	\$ 107.00
913990	4047	10"	5-1/2"	9"	11/16"-18	7 ton	170.00

Wedge Tools

Pitman Arm Wedge

OEM Easily removes Pitman arms. Insert wedge between the parts to be separated and hammer the end, breaking the parts free. Forged and heat-treated.

Stk. **281190** Mfg. 27021... 1-1/8" jaw opening **\$ 15.40**



Ball Joint Separator

OEM Separates stubborn ball joints from the steering knuckle. Insert tool between parts to be separated and hammer the end to break parts free. Makes replacement and disassembly of front suspensions and steering components easy. Forged, heat-treated wedged ends.

Stk. **281188** Mfg. 25202... 15/16" jaw opening **\$ 11.70**



Tie Rod End Puller

OEM Separates tie rod ends from the steering knuckles, idler arms and Pitman arms. Prevents damage to steering components. Heavy-duty alloy steel. Tapered fork wedge ends. 11-7/8"L.

Stk. **281185** Mfg. 25201... 21/32" jaw opening **\$ 14.20**



Works on Tie Rods with Inaccessible Flats Inner Tie Rod Tool

Lisle Inner tie rod end sockets with a complete hex on the full length of the socket. Rounded socket ends prevent access to the wrench flats. Tool uses crows feet to engage wrench flats. Long socket slips over tie rod end and connects to the crows foot. Inner tie rod can be removed and installed without removing the rack.

Includes 6 crows feet (1-7/16", 1-3/16", 1-1/4", 1-5/16", 1-1/2", 33.6 mm).
Stk. **503870** Mfg. 45750... **\$ 102.00**



4-WD Bearing Locknut Tools

Lisle 1/2" drive. Not for use with impact wrenches.

For 4-Slot Applications

Chevrolet, GMC (1/2 ton) 1960 to present
Blazer, Scout, Bronco 1966 to present
Ford F-100 & F-250 1959 to present
Dodge, International (1/2 ton) 1969 to present
Stk. **503847** Mfg. 27250... **\$ 22.10**



For 4- & 6-Slot Applications

Ford (3/4 ton) 1978 to present
GM (3/4 & 1 ton) 1973-1981
Stk. **503849** Mfg. 27400... **\$ 32.10**

CV Tools

CV Joint Banding Tool

Lisle For all CV joints using Band-It® and Band-It Jr.® type boot bands. Use 5/8" socket or wrench to wind and crimp new band on boot. Tool is easily disengaged from the band after tightening.

Stk. **503735** Mfg. 30950... **\$ 11.60**



CV Boot Clamp Pliers

Lisle For ear-type clamps including GM fwd outboard CV joints. Designed for use with a torque wrench, as required for stainless steel bands.

Stk. **503734** Mfg. 30500... **\$ 23.50**



Lisle For earless-type clamps including GM inboard CV joints. Sturdy, economical tool.

Stk. **503736** Mfg. 30800... **\$ 33.10**



Exhaust Tools

Exhaust/Strut Cut-off Tool

Lisle Cut-off tool has 4 knife-edged cutting wheels that cut quickly and cleanly. Can be operated with 1 hand. Less than 1/3 of a turn cuts all the way around the pipe. Unique design allows tool to "shift" to make out-of-round cut. Big 1-3/8" to 2-1/2" range.

Stk. **503851** Mfg. 31500... **\$ 34.40**



Tailpipe Expanders

Lisle Expanders remove grooves and round out pipes. 2 sizes fit most pipes. Use with wrench or impact tool.

Stk. **503853** Mfg. 32500... fits 1-5/8" to 2-7/16" **\$ 42.10**
Stk. **503855** Mfg. 32750... fits 2-3/8" to 3-1/4" **66.70**



Muffler Clamps

Nickson Heavy-duty clamps.

Stk. **942686** Mfg. 23... 1-7/8" **\$ 2.36**
Stk. **942687** Mfg. 24... 2" **2.36**
Stk. **942688** Mfg. 26... 2-1/4" **2.53**



Fender Protector

Lisle Heavy-duty, long-wearing foam vinyl pad. Protects the car while providing a convenient place to hold small tools and parts.

Stk. **503843** Mfg. 24750... **\$ 28.60**



Radiator Tools

Hose Clamp Pliers

CHAN NEL LOCK High-carbon, drop-forged steel pliers with wire cutter. PermaLock® fastener eliminates nut and bolt failures. Comfort grips.



Stk. **301498** Mfg. 558 8"L \$ **23.70**

Ratcheting Hose Clamp Pliers

Zim Remove and install small or large hose clamps quickly and easily. Jaws swivel to clamp at any angle. Jaws with double V-slots. Ratchet reduces spreading wire form effort and locks pliers at any point of expansion. Heat-treated for hardness and durability.



Stk. **988809** Mfg. 970 8-1/2"L \$ **13.00**



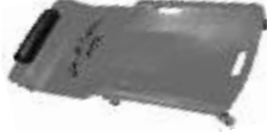
Antifreeze Coolant Tester

Prestone Quick, professional tester for freeze and boil-over protection. Allows inspection for rust and sediment.

Stk. **942899** Mfg. 00469 \$ **6.18**

Auto Creepers, Stools & Supplies

Lisle Low Profile Plastic body-fitting creeper gives optimal comfort with 7/8" floor clearance. Urethane rollers are inserted into steel bushings providing superior strength and easy roller replacement. Easy-to-clean surface is resistant to solvent, grease and fuel. Red.



Stk. **503934** Mfg. 92102 38"L x 17-1/2"W x 4"H \$ **89.80**

Lisle Low Profile 36" tubular steel frame. High-quality 1/2" plywood bed. 2" ball bearing wheels for a smooth, easy glide.



Stk. **503938** Mfg. 96102 36"L x 17"W \$ **75.30**

Lisle Padded Low Profile Fully-padded creeper on a 42" tubular steel frame. Heavy-duty vinyl pad offers maximum comfort. 2" ball bearing wheels for a smooth, easy glide.



Stk. **503937** Mfg. 96302 42"L x 17"W \$ **89.80**

Lisle Creeper Seat/Step 300 lb. capacity ergo-design creeper can be rotated onto rubber feet to make a 14" H step. Tubular steel legs have outrigger design for extra stability. Spacious storage tray below seat keeps tools, test equipment and parts within easy reach. Perfect for brake service, body work, tire service and wheel balancing. 2" ball bearing wheels glide smoothly.



Stk. **503943** Mfg. 93402 21"L x 15"W x 17"H \$ **158.00**

Replacement Rollers & Casters

Lisle

Stk.	Mfg.	Wheel Dia. x H	Bracket Size	Price
503913	97112	2" x 2-3/4"	1-1/4" x 2"	\$ 5.13
503919	99702	3" x 3"	1-1/2" x 2"	\$ 6.22
503935	92132	2" x 2-1/2"	—	\$ 5.36

Rubber. For wooden creepers. Oil-resistant, rubber ball-bearing wheels glide easily & quietly over rough floors.

Steel. For wooden creepers. Low clearance steel caster & bracket.

Plastic. For low profile steel creepers. Oil-resistant, plastic ball-bearing wheels glide easily, quietly over rough floors. Cap nut included.



Pickup Tools

Mechanical Pickup Tool

General Strong 4-prong steel jaws retrieve small items from hard-to-reach places. Fully flexible with a 24" reach.

Stk. **418756** Mfg. 396 \$ **8.26**

Magnetic Pickup Tools

General Pocket-size Handy for retrieving screws, bolts, metal shavings, wrenches and other tools. High-powered Neodymium magnet offers a 2 lb. pull. 5-1/2"L lightweight knurled aluminum body with a pocket clip.



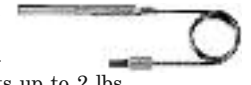
Stk. **418743** Mfg. 386 \$ **6.12**

General Flex-O-Stiff Magnetic pickup tool with 18" flexible or stiff pickup, and extra long 32" retriever. Simply reversing the stiff wire section, thread it into handle. Lifts up to 2 lbs.



Stk. **418675** Mfg. 384N \$ **11.70**

General Flexible For retrieving steel parts in tight spots. 6x magnet is more powerful than a same size cobalt magnet. Knurled aluminum body has flexible 15" wire. 20"L. Lifts up to 2 lbs.



Stk. **418755** Mfg. 395 \$ **7.80**

Lisle Straight Will retrieve parts and tools from hard to reach places. Magnet is shielded to concentrate magnetic field. Super strong neodymium magnet and extends from 14-1/2" to 23-1/4".



Stk. **503852** Mfg. 31000 \$ **13.20**

Grease Guns & Supplies

I-Handed Use & 2 Loading Options

Plews Pistol-grip Gun Two-way loading with either 14 oz. cartridge or suction bulk. Delivers up to 5,000 psi.



Includes 3-1/2" grease pipe & coupler.
Stk. **617140** Mfg. 30-300 \$ **28.20**



Plews Lever-action Gun 10,000 psi, electronically-coated gun.

Stk. **942968** Mfg. 30-445 \$ **17.50**

Lubrimatic Suction Gun Designed for draining and filling noncorrosive liquids. Barrel holds approximately 1 pint with 9" stroke. 12" plastic hose. Durable corrosion resistant finish.



Stk. **942970** Mfg. 30-118 \$ **16.80**



Lithium Grease Cartridge

Warren Multi-purpose grease provides outstanding lubrication and protection in a wide range of temperatures, operating conditions and applications. Made of fine quality base oils, lithium, 12 hydroxy-stearic acid and additive systems.

Stk. **942662** Mfg. MG610014 14 oz. \$ **4.51**

Grease Guns & Supplies, cont.

Flexible Grease Gun Hose



Plews Flexible hose for hand-operated grease guns. 1/8" NPT male threads (both ends), working pressure 3,000 psi, burst pressure 12,000 psi. Stk. **942973** Mfg. 10219 18'L **\$ 9.73**

Universal Bearing Packer

Lisle Fast, efficient and thorough. Place the bearing between the plastic cones, tighten and apply grease through the fitting on the end of the threaded shaft. Forces out old grease and evenly injects fresh grease.



Stk. **503905** Mfg. 65250 **\$ 10.30**

Handy Packer® Bearing Packer

Lisle Quickly flush out old grease and repack bearings with less mess. Grease stays in the tool cavity, keeping hands clean. To pack, place unit on the piston, press down on the cap until the old grease is forced out and replaced by new grease.



Stk. **503862** Mfg. 34550 for bearings up to 3-1/2" O.D. **\$ 27.60**

Premium Wheel Bearing Grease

Pennzoil High-performance grease providing high-temp protection and resistance to water washout. Extreme-pressure properties and high dropping point. Use for vehicles with disc brake and ABS systems. Ideal for chassis lubrication. Premium red color. Exceeds NIGI GC-LB specification.



Stk. **943202** Mfg. 7771 16 oz. **\$ 7.04**

Polyethylene Funnels

Little Giant Heavy-duty, corrosion-proof polyethylene plastic funnel for use with any chemical. Rust-proof funnel made of heavy-gauge construction with brass filtering screen and hang hole.



Stk. **942934** Mfg. 100021 6 qt. **\$ 7.33**

Blitz Made of durable high-density polyethylene.



Stk. **943159** Mfg. 05007 8 oz. **\$ 1.34**
Stk. **942932** Mfg. 05015 16 oz. **1.84**
Stk. **943245** Mfg. 05064 2 qt. **2.47**

Transmission Funnel

Blitz Perfect for hard-to-reach jobs, funnel aids in the delivery of transmission fluid and adjusts to any angle. Tough high-density polyethylene.



Stk. **942931** Mfg. 06064 **\$ 2.58**

Threaded Oil / Transmission Funnel

Lisle Use 2-piece funnel separately or threaded together for a longer funnel. Larger section screws into threaded oil filler openings (found on many Ford pickups & Dodge, Jeep & Chrysler cars mini vans & SUVs, also works on some Honda, Acura & Nissan vehicles) to keep the funnel upright for quick, mess-free oil fills. Smaller funnel's diameter is narrow enough to fit transmission filler holes.



Stk. **503733** Mfg. 19802 **\$ 6.65**

Oil Filter Crusher. Page 452.

Polyethylene Funnels, cont.

Transmission Drain Funnels

503747

503748



Lisle Heavy-duty funnel extends the catch area of any lift drain to catch loose parts. Flexible funnel returns to its original shape if run over.

Stk. **503747** Mfg. 17892 22" x 23" **\$ 20.00**

Super Transmission Funnel w/fluted edges. Fits Ford E 40D & can be used for draining oil filters.

Stk. **503748** Mfg. 17902 22" x 36" **\$ 54.40**

418960

418962



Inspection Mirrors

General Mirrors allow inspection of inaccessible workpieces and machines. Fully-polished mirrors enclosed in plated holders and attached to knurled handles with ball and socket joints. 557 offers telescoping arm and vinyl cushion-grip handle.

Stk.	Mfg.	Overall Length	Diameter	Price
418960	555	8"	1-1/4"	\$ 7.74
418962	557	10-1/2", extends to 15"	2-1/4"	11.10

Oil Changing Tools & Supplies

Socket

Lisle Low profile 1-1/4" socket removes and installs oil filters on 2.2L GM Ecotec engines. Not for use with impact wrench. 3/8" drive.



Stk. **503936** Mfg. 14700 **\$ 8.98**

Oil Lift Drain

Lisle Drain with quick-release lock ring has specially-shaped jug that holds 8 gal. Hot oil won't warp reinforced base. Wide working range from 36.5" to 74". Lower center of gravity for increased stability and four 2.5" ball bearing wheels that swivel and roll easily. Also has a heavy-duty adjustment clamp, large handle and big pour spout with threaded cap. Large 15" funnel has strainer built-in to catch drain plugs.



Stk. **503746** Mfg. 11102 22" x 23" **\$ 120.00**

Drain Pans

S&K Metal Seamless, galvanized steel utility drain pan. Rolled rim and ribbed bottom for extra strength. For oil draining and parts.



Stk. **943011** Mfg. 17007 13 qt. **\$ 9.45**



Blitz Easy-pour Plastic For easier, cleaner oil changes. Fluids drain directly into large opening. Pan is resistant to chemicals and solvents. Won't rust, dent or corrode.

Stk. **942933** Mfg. 05070 7-1/2 qt. **\$ 5.06**

Oil Changing Tools & Supplies, cont.

Swivel-grip Wrenches

Lisle Swivel handle clears obstructions to easily turn filters in hard-to-reach locations. Features gripper teeth and 1" wide stainless steel band. Easy-grip vinyl covered handle.



Stk. **503884** Mfg. 53700..... 2-7/8" to 3-1/4" dia. range **\$ 9.50**
 Stk. **503896** Mfg. 53500..... 3-1/2" to 3-7/8" dia. range **9.50**

Slip Joint Pliers

Lisle Two-position, slip-joint handled pliers with the range of 3 conventional filter wrench sizes. Sure grip teeth prevent slipping. Cushioned, comfort handle. Also works on fuel filters and radiator caps.



Stk. **503876** Mfg. 50750..... 2-1/4" to 4" dia. range **\$ 35.10**

Wrench Set

Lisle Cap style wrench fits 95% of domestic and import automotive applications.

Includes 1 ea. of 65/67mm-14 flutes, 68mm-14 flutes, 74/76mm-15 flutes, 76mm-14 flutes, 76mm-30 flutes, 80mm-15 flutes, 86mm-16 flutes, 93mm-15 flutes, 93mm-36 flutes, 100mm-15 flutes, plus molded case.



Stk. **503930** Mfg. 54920..... **\$ 51.10**

Removes Oil from Filter, Reduces Filter Size 25-Ton Capacity Oil Filter Crusher

OTC Easily and simply crushes most automotive and light truck filters up to 6"L. Automatic cycle feature works with the push of a button. Air/hydraulic pump works on standard shop air (*no electrical components needed*). Removes 95% of the residual oil from a pre-drained filter and crushes filter to 1/6 original size. Mfr.'s lifetime warranty.

shown w/stand, sold separately



Stk. **693310** Mfg. 1875..... **\$ 2,598.00**
 Stk. **693311** Mfg. 1876... Floor Stand **367.00**



Clean Up Oil & Grease Absorbent

Oil-Dri Industrial oil absorbent, soaks up liquid spills from floors, provides traction on snow and ice.

Stk. **942800** Mfg. 108030..... 10 lbs. **\$ 12.20**
 Stk. **942802** Mfg. 05080..... 50 lbs. **40.40**



Oil-free Compound Cleans Dust, Gypsum & More Kleen Sweep™

Akona Water-based compound out performs oil-based products. Excellent dust control and picks up on cement, vinyl, rubber, asphalt, composition and other floors. Picks up gypsum and wallboard dust.

Stain-free and won't leave oily residue. Environmentally safe with no petroleum oil, toxic or hazardous ingredients.

Stk. **942859** Mfg. 1815..... 50 lbs. **\$ 42.10**

For Hand Soaps & Sanitizers, Towels & Rags,
see pages 463-464.

Vehicle Stands, Jacks & Lifts

360° Rotate 'n Lock Platform Engine Stand

Stinger Heavy-duty 1,250 lb. capacity stand features mounting plate and adapter arms for servicing light truck and car engines. 24" handle provides easy 360° engine rotation, hitch pin locks engine in place.



- Stable, heavy-duty base w/4-polyurethane wheels (*fixed back & swivel front*)
- Wide-mouth base opening adapts to mobile engine cranes
- Built-in tool tray • 2-yr. mfr.'s warranty • Meets ANSI/PALD standards

Stk.	Mfg.	Cap'y.	Height	Base	Weight (lbs.)	Price
693436	2012A	1,250 lbs.	24"	33" x 33.75"	73.....	\$ 248.00

3, 6 & 10 Ton Selection Vehicle Stands

J E T The weight of the load prevents the ratchet pawl from disengaging while under load. Heavy-duty, all steel, welded construction vehicle stands with rated capacities. Sold in pairs only.



Stk.	Mfg.	Cap'y.	Height	Base	Price/Pair
485870	JSS-3	3 ton	11-3/4" to 17-1/4"	7-5/8" x 8-5/8".....	\$ 66.00
485871	JSS-6	6 ton	15" to 24-1/4"	10" x 11-1/4".....	121.00
485872	JSS-12	12 ton	19" to 30-3/8"	12-3/8" x 14-1/4".....	216.00

Compact Carriers Tow Tons Short Service Jacks

J E T Jacks feature safety overload bypass system, strong steel side plates and full-swivel ball bearing rear casters positioned for optimal load carry and moving.

- "Speedy Lift" pump feature w/no load
- Tested & certified to rated capacity
- Meets ANSI/ASME PALD-10 standards



Stk.	Mfg.	Cap'y.	Height	Lgth.	Handle	Weight (lbs.)	Price
485863	JJ-2-1/4X	2-1/4 ton	4-1/2" to 19-1/4"	26"	39-7/8"	83.....	\$ 279.00
485864	JJ-3X	3 ton	4-1/2" to 21"	26"	37-3/4"	86.....	315.00

5 Ton Jack Lifts Large Loads 5-Ton Service Jack

Stinger Built-in safety overload prevents using the jack beyond its rated capacity. Handle lock and release control are located on top of the 40" spring-loaded handle. Handy foot pedal speeds lifting operation.

- Handle can lock in any position from vert. to horz.
- Adheres to ANSI/ASME PALD-10 standards
- Safety overload



Stk.	Mfg.	Cap'y.	Height	Lgth.	Saddle	Weight (lbs.)	Price
693301	1505B	5 ton	6" to 22"	56"	5-1/8"	232....	\$ 834.00

Works in Upright, Angle or Horizontal Position Bottle Jacks

J E T Ideal for lifting, pushing, spreading, bending, pressing or straightening requirements. These units feature electrically-welded base and cylinders to ensure strength and eliminate leaks.

- Not affected by temperature extremes
- Low profile truck or standard models
- Adheres to ANSI/ASME B30.1 & PALD-1 standards
- Common release valve assemblies & quick repair interchangeable parts

Size, base: **JHJ-3** 4-9/16" x 2-13/16". Tool weight 5 lbs.
JHJ-8 6" x 3-1/2". Tool weight 12 lbs.
JHJ-12-1/2 6-1/2" x 4-1/8". Tool weight 17 lbs.



Includes pump handle.

Stk.	Mfg.	Cap'y.	Closed Ht.	Piston Ht.	Max. Ht.	Head Screw	Price
485882	JHJ-3	3 ton	7-1/2"	4-1/2"	14-3/8"	2-3/8"....	\$ 80.00
485883	JHJ-8	8 ton	7-7/8"	4-5/8"	15-1/2"	2-3/4"....	134.00
485884	JHJ-12-1/2	12-1/2 ton	9-1/2"	5-7/8"	18-1/2"	3-1/8"....	150.00

Vehicle Stands, Jacks & Lifts, cont.



L-90 Series Hand Hoist

J E T 2 Ton hand hoist with triple-spur gears for minimal effort. Standard hand chain drop equals lift length. Enclosed Weston auto brake system for positive load spotting. Smooth rolled edge hand chain cover prevents side pull jam. Wide throat drop forged safety hook for easy rigging. Lightweight, compact design for low headroom applications. All steel with powder-coat finish. Proof test certified (* below).

Weight 48 lbs. (shipping). **Includes** safety hooks & chains.

*OSHA, ANSI/ASME B30.16 & HST-2 certified.

Stk.	Mfg.	Rated Cap'y.	Pull to Lift Cap'y.	Head Room	Standard Lift	Price
485764	L-90-2T-10	4,400 lbs.	88 lbs.	14-3/4"	10'	\$ 439.00

DS Series Dual Speed, Electric Hoist

J E T Powerful electric 1/2 to 5 ton capacity hoist with heavy-duty chain container. Reverse phase protection. Can operate on 50 hz. with 16% lifting speed reduction. Wide throat drop forged safety hook for easy rigging. Optional hook or lug mount for low headroom applications. All steel with powder-coat finish. Proof test certified (*listed below).

2.1 HP, 3 phase, 4:1 speed range w/reverse. 148 lbs.

Includes 10' lift, 8' pushbutton control, 16' power cable, safety hooks & chain container.

*OSHA, ANSI/ASME 1330.16, HST-1 & ISO 1994.08 certified.

Stk.	Mfg.	Rated Cap'y.	Hoist Speed	Head Room	Duty Cycle	Price
485765	2DS-3-10	4,400 lbs.	12/3 fpm	28"	30/15% . . .	\$ 3,311.00

2-Ton Hydraulic Shop Cranes

J E T 4,400 lb. capacity crane with a heavy-duty steel frame. Quick-lift hydraulic ram has 2 pump pistons (lifts w/both up & down stroke). Chrome-plated plunger and ram pistons for superior rust resistance. Top-of-stroke and safety overload by-pass system protects hydraulic ram assembly. Oversized hitch pin for quick, easy boom adjustment. Steering handles improve maneuverability.

Includes steel fixed & swivel casters. ANSI/ASME PALD-12 certified.

Stk. 485692	Mfg. JHC-200X	\$ 457.00
Stk. 485693	Mfg. JFHC-200X foldable model*	472.00

* Folding legs w/safety pins for compact storage.



Great Overall Arm Sweep 10,000 lb. 2-Post Lift

Challenger Safely lift vehicles symmetrically or asymmetrically within the same service bay. 2-post lift with Versymmetric® offset 3-stage front and 3-stage rear arms provides maximum arm sweep, retraction and reach, and single sweep spotting of any vehicle.

- Adjustable arm restraint shafts compensate for uneven floors
- Grease fittings on arm pin bushings minimize corrosion to keep arms swinging freely
- Rubber guards protect doors

- Double telescoping screw pads adjust to multiple heights
- 48" elongated carriage design decreases load on bearing
- Heavy-duty 5" dia. pulley & 5/16" cable reduces stress on equalization system & increases cable life
- Padded overhead shut-off system prevents vehicle damage
- Single-point mechanical lock release system allows technician to disengage both column locks simultaneously

Rise 74-5/8"H. Column 11' 8"H. Lift time 48 sec.

Drive-through clearance 100-1/2" to 105". Ceiling requirement 12'H.

230V, 2 HP, 1 phase. Load per arm 2,500 lb.

Size 11' 11"H x 11' 11"W. Weight 1,835 lbs. (shipping).

ANSI / ALI ALCTV 2006 listed.

Stk. 292212	Mfg. CLI0V3	\$ 4,986.00
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Hydraulic Press Equipment

17-1/2 Ton Capacity Heavy-Duty Press

OTC Ram head moves side to side for off-center pressing, ram-to-work distance is adjusted by a forcing screw that is extended or retracted by a speed crank. Open-throat frame extensions make handling of bulky jobs possible outside of the press frame. Mfgr.'s lifetime warranty. USA made.

Size 64"H x 28"W x 28"D. Weight 284 lbs.

Includes hydraulic ram w/ 2" stroke, hydraulic hand pump, gauge, hose, adjusting screw, speed crank, ram cap & pump mounting bracket. *Lifting mechanism, sold separately.*

Stk. 693300	Mfg. 1825	\$ 2,543.00
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Lifting Mechanism. Winch raises & lowers press bolsters to desired height. **Includes** brackets for mounting rollers.

Stk. 693450	Mfg. 211407	\$ 497.00
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Accessory Set. Adapters & accessories attach to ram's forcing screw or are used on press bed to support work. **Includes** bearing pulling attachment, ram pushing adapter (1/2" dia. shank), ram pushing adapter (3/4" dia. shank), V-pushing adapter, V-block pair.

Stk. 693315	Mfg. 1880	\$ 386.00
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25-Ton Capacity Shop Press

OTC Tough, economical press is ideal for pressing rear axle bearings, piston pins and more. Large 30" x 46" work area under ram makes positioning of even bulky work easy. Press bed is easily raised and lowered by lifting mechanism.

Stroke length 5-3/4" - 46". Size 69-1/2"H x 30"W.

Includes hydraulic hand pump, gauge, hose (1/4" ID x 6'), hydraulic ram w/6-1/4" stroke & pump mounting bracket.

Stk. 693307	Mfg. 1833	\$ 2,886.00
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Accessory Set. Attach to ram's forcing screw or support work on the press bed. **Includes** bearing pulling attachment, 2 ram pushing adapters (3/4" dia. shank & 1" dia. shank), V-pushing adapter, 11-1/2" long V-blocks, ram forcing cap & threaded adapter.

Stk. 693316	Mfg. 1881	\$ 715.00
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Assorted Tools & Supplies

Right Angle Ratcheting Screwdriver

Lisle Fits where a regular screwdriver can't. Place handle over bit and turn. Reverse handle on bit to tighten. Use also with 1/4" round shaft screwdriver. Ratcheting action with infinite settings.

Includes straight slot & #2 Phillips bit assemblies.

Stk. 503901	Mfg. 64250	4'L \$ 17.10
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Nut Splitting Tool

General Tool High-grade, heat-treated steel tool for removing frozen, hard-to-remove rusted nuts. Angled body gets into tight spots. Splits nuts up to 1/2" automotive series.

Stk. 417955	Mfg. 175	4-3/4'L \$ 30.00
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Terminal Tool

Lisle Removes wires from terminals without damage to either. Prongs depress the "barbs" on conventional terminals.

Stk. 503889	Mfg. 56500	\$ 12.60
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AUTOMOTIVE

Assorted Tools & Supplies, cont.

Mechanic's Stethoscope

Lisle Unique sound chamber and super thin diaphragm greatly amplify sounds. Quickly pinpoints the source of noises in engines, transmissions, differentials and bearings.



Stk. **503882** Mfg. 52500. \$ **18.60**

MacPherson-type Tool Secures Springs Suspension Strut Tool

Lisle Heavy duty clamps and bolts safely and securely hold spring during operation. Fits all strut spring sizes, import and domestic.



Stk. **503902** Mfg. 62300. \$ **76.20**

Works on All Makes of Cars & Trucks Telescoping Hood Prop

Lisle 3-Piece, telescoping design allows mechanic to hold the hood in the desired position. Telescopes from 18-1/2" to 46-3/4". Can be used from the side of car for better access to the engine compartment. Also great for body or repair work on door, trunk lids, or hatchbacks.



Stk. **503742** Mfg. 45900. \$ **39.10**

Throttle Pedal Depressor

Lisle Holds throttle at constant rpm. Simply engage the nylon hook under the steering wheel and extend the depressor rod to the accelerator pedal. Adjustment screw fine tunes the rpm level. 40"L.



Stk. **503744** Mfg. 48700. \$ **31.60**

Universal Camshaft Bearing Tool

Lisle Will remove or insert camshaft bearings in nearly all engines from compact cars to heavy trucks. Range 1.125" to 2.69". The expander has a neoprene sleeve over which the split driving plugs are mounted and expanded to size. Includes 2 sets of rubber sleeves for driving thin wall bearings (.065") and thick wall bearings (.090").



Includes driving shaft, driving shaft extension, expander unit, 5 split driving plugs, 2 driving collars, centering cone, molded case & instructions.

Stk. **503825** Mfg. 18000. \$ **198.00**

Standard & Ratcheting Serpentine Belt Tools



Lisle Releases tension on serpentine belts with a spring-loaded idler pulley. Reaches where conventional ratchets and breaker bars won't. Use to remove and install belts on most domestic and some import vehicles. Extension bars are for hard-to-reach areas.

Includes handle assembly, extension & 8 sockets (13-16mm, 18-19mm & 3/8" & 1/2" sq. dr.).

Standard Tool. Handle & extension w/13 & 16mm socket drive holes. Stk. **503795** Mfg. 59800. \$ **67.20**

Ratcheting Head Tool. Freewheel position for max. leverage or locks in ratcheting mode. Extension w/13 & 16mm socket drive holes. Stk. **503904** Mfg. 59000. \$ **84.20**

Automotive Resources

Automotive Builder Software

Optimum Design and build vehicles on the computer screen. Users can specify chassis length, wheelbase, engine type, transmission, fuel tank size, suspension, steering, tires and brakes. The final touches are made when the user designs the body of the vehicle, windows and any decorative or functional touches. The program will test the vehicle in a wind tunnel and around a test track and give you a complete evaluation report. From there, you can adjust, alter, save and print designs. Introduces users to CAD, enhances problem-solving skills and an elementary knowledge of physics and auto design.



Stk. **613950** Mfg. 52100. Car Builder; Win/Mac \$ **79.80**
Stk. **613954** Mfg. 52200*. Truck Builder; Win/Mac \$ **79.80**

* For building light, medium & heavy trucks.

Automotive Repair DVDs

Shopware View via DVD player or computer. Collision Repair & Refinish Technician Training Certified. Includes on-line viewable/printable teacher's guide.



Braking System Repair. Students learn how to bleed, flush and pressure-test a brake hydraulic system, remove and reinstall a caliper assembly and to check parking brake system operation.

Stk. **794702** Mfg. 32784-DVD. 18 min. \$ **89.10**

Electrical Repairs. Investigates common auto electrical repair, including using a DVOM to check continuity, voltage, resistance and amperage; inspect, test and replace fusible links, circuit breakers and fuses, plus work on batteries and alternators. On-demand English subtitles.

Stk. **794703** Mfg. 32783-DVD. 20 min. \$ **89.10**

Miscellaneous Repairs. Students learn how to make minor repairs to vehicle body and systems including lights, wipers, windows, seat belts and shoulder harnesses, air bags, plus interior door and door glass components and hardware.

Stk. **794705** Mfg. 32786-DVD. 19 min. \$ **89.10**

Automotive Computer System DVDs

Shopware Viewable from a DVD player or computer. Includes viewable/printable teacher's guide.



Computer System Service. Using a scan tool students diagnose system problems and pinpoint tests (i.e. active sensors for oxygen, magnetic, knock & light or solar sensors, plus passive sensors for temperature, throttle position, pressure & flow sensors). Covers sensor replacement, actuator and computer service. Shows downloading software updates to car's computer.

Stk. **794720** Mfg. 25078-DVD. 21 min. \$ **89.10**

Computer On-board Diagnostics. Program illustrates the different systems within a car (brakes, electrical & steering) that an OBD-II system monitors and troubleshoots. High/low input failure, sensor types and using a digital thermometer to verify trouble codes is explained. Shows dealing with older vehicles and reverting to low-tech methods.

Stk. **794721** Mfg. 25076-DVD. 14 min. \$ **89.10**

Computer System Operation. With live-action footage and 3-D animation, analyzing data from OBD II vehicles is demonstrated. Topics include cybernetic concepts (how computerized monitoring systems are modeled on the human senses), active/passive sensors, the role of computers (in anti-lock brake, suspension control, climate control, hybrid drive, & other functions) and various actuators (solenoid, servo motor, relay & dash display).

Stk. **794722** Mfg. 24744-DVD. 30 min. \$ **89.10**

Scanning Automotive Computer Problems. Provides a basic working knowledge of automotive computers and proper use of OBD-II scan tools. Students learn system operation, trouble codes, scan tools and repair procedures. Ford, GM, Chrysler and other makes are discussed. Hybrid engine technology is also addressed.

Stk. **794723** Mfg. 26253-DVD. 30 min. \$ **89.10**

Automotive Computer System Series

Stk. **794724** Mfg. 24743-DVD 4-DVD Series (listed above) \$ **357.00**

Shop Coats & Aprons
Page 98.

Instructional DVDs, Videos & Software are nonreturnable.



Automotive Resources, cont.

Automotive Hybrid DVDs*

Shopware View via DVD player or computer. Correlates to State & National Standards. Includes on-line viewable/printable teacher's guide.



History of Hybrids. Introduces students to the hybrid background, configurations currently on the road and in development, plus explains its principles of propulsion.

Stk. **794716** Mfg. 35526-DVD 15 min. **\$ 69.30**

Hybrid Components. Examines the battery pack, electric motor, internal combustion engine, transmission and generator.

Stk. **794717** Mfg. 35527-DVD 16 min. **\$ 69.30**

Hybrid Safety Issues. Students learn the unique requirements of maintenance and repair. Focuses on electric shock prevention.

Stk. **794718** Mfg. 35528-DVD 18 min. **\$ 69.30**

Hybrid Repair Series

Stk. **794719** Mfg. 35525-DVD 3-DVD Series (listed above) **\$ 208.00**

* Instructional DVDs are nonreturnable.

Testing Equipment & Supplies

Heavy-duty Remote Starter Switch

OTC Allows 1 person to start and crank engine while under the hood or from either side of the vehicle. Convenient hot circuit indicator, red ready light glows when starter switch is connected to a hot circuit (*light goes off when switch is depressed*).

- High current push-button switch offers reliable operation & long life
- Heavy-duty, 12 ga. wire leads (5' L) are oil & grease resistant
- Easy hook-up, high current clips w/protective boots open 5/8" W

Stk. **693420** Mfg. 3650 **\$ 43.10**



Digital Multimeters

OTC 55 Series Multimeter provides all the base functions required for today's automotive testing.

- Max. display 2000
- Auto/manual range
- Continuity buzzer
- Diode check
- Auto power off
- Data hold, max hold

DC volts 200mV to 200V
DC current 200/2000µA
Resistance 400Ω to 2MΩ

AC volts 2V to 200V
AC current 200/2000µA
Temperature -58°F to 392°F

Includes test leads & temperature probe.

Stk. **693398** Mfg. 3910 **\$ 64.00**



OTC Auto DVOM Accurate ms-pulse width function to test on-time for fuel injectors, IAC motors and transmission controls.

- Analog bar graph, 41 segment
- Direct dwell readings & duty cycle
- Inductive rpm for 1 to 8 cylinders (2 or 4-stroke)
- DC volts & mVAC, AC volts, ohms, continuity & frequency
- Auto ranging, automatic power off & data hold
- 4-step adjustable ± trigger
- 4-1/4" digital display

DC volts 0.1mV to 600V
Resistance 0Ω to 40MΩ

AC volts 1mV to 600V
RPM 30-9,000

Includes inductive clamp, leads & alligator clips.

Stk. **693412** Mfg. 3514 **\$ 103.00**



Testing Equipment & Supplies, cont.

Digital Multimeters, cont.



OTC Autoranging Multimeter 100 Series

High-quality unit features all of the same classic autoranging multimeter functions, plus automotive test-specific measurements.

- Auto/manual ranging
- Duty cycle & frequency to 10M Hz
- Auto power off can be disabled
- Data hold freezes data w/push of a button
- O₂ cross counts

- Tests for resistance, continuity, diode & capacitance
- Measures for rpm, temperature (°F/°C), dwell, fused direct currents up to 10 amps through meter
- Millisecond pulse width & peak volts measurements for fuel injectors
- Relative measurement removes test lead resistance from low-resistance measurements
- Data recording min/max for fluctuating measurements

DC volts 400mV to 400V.
DC current 40/400µA.
Resistance 400Ω to 400kΩ.
Temperature -50°F to +400°F.

AC volts 4V to 400V.
AC current 40/400µA.
Capacitance 40nF/4µF.
RPM 0/10,000.

Includes inductive rpm clamp, heavy-duty test leads w/removable alligator clip ends & temperature probe.

Stk. **693402** Mfg. 3505A **\$ 237.00**

Briggs & Stratton UT70B Sensitive, modern digital multi-purpose meter. Gray.

- Fused 10A range
- Diode
- Max/min mode
- Data hold
- Display backlight
- Full Icon display
- LCD size 62 x 53mm
- Input impedance for DC voltage measurement 10MW
- Auto ranging
- Continuity buzzer
- Relative mode
- Max. display 3999
- Sleep mode
- Analog bar graph
- Low battery display
- RS232C

DC volts 400µV to 1000V
DC current 400µA to 10A
Resistance 400Ω to 40MΩ
Temperature -40°F to 1,832°F
RPM 40k

AC volts 4V to 750V
AC current 400µA to 10A
Capacitance 4nF to 40mF
Frequency 4kHz to 400MHz

Includes 9V battery, test lead, battery, point contact temperature probe, test clip, RS232C interface cable, software, red holster & manual.

Stk. **204331** Mfg. 19581 **\$ 156.00**

Stk. **687715** Mfg. 9V Duracell Alkaline 9V Battery **6.36**



OTC 750 Series Features powerful automotive test functions (*frequency, duty cycle, diode & continuity tests*) and automotive specific tests (*true RMS, RPM, dwell, pulse width, temperature, backlight, RS232 & min./max.*). It's CATIII and compatible with Hybrid vehicle systems.

- Diode Test
- Auto Range
- Relative Change
- Auto Power Off
- Continuity Test
- Data Hold
- Backlight
- CATIII 1000V
- Min/Max

DC volts 400µV to 1000V
DC current 400µA to 10A
Resistance 400Ω to 40MΩ
Temperature -58°F to 752°F
Dwell angle 0 to 360° (1 - 12 CYL)
Pulse with ms (negative) 1 to 999ms

AC volts 4V to 750V
AC current 400µA to 10A
Capacitance 4nF to 40mF
Frequency 1Hz to 10MHz
RPM 10k
Duty cycle 0.1% to 99.9%

Includes RS232 & cable, alligator clips, RPM pick-up adapter, temp probe adapter, PC cable & software, plus canvas case.

Stk. **693423** Mfg. 3980 **\$ 218.00**



DVDs, Videos & Software.

A general listing appears in Technology, pages 48-50.

Cable Ties & Velcro Fasteners,

page 199.



Testing Equipment & Supplies, cont.



Digital Battery Tester Kit

OTC Speed and reliability. Unit tests 12V batteries (125-1400 CCA's) and analyzes by measuring multiple parameters within the battery to deliver accurate results. Bright, 4-digit LED display indicates battery's good/bad status, voltage and available CCA's.

- Detects bad cells
- Cost effective conductance test technology for accurate testing
- Measures multiple international units (CCA, IEC, DIN, BCI & EN)
- Live voltmeter easily analyzes starting/charging system
- Temperature & low charge compensation
- Surface charge warning
- Quick 1-sec. initial results
- Detects & identifies loose leads

Includes case.

Stk. **693352** Mfg. 3183..... \$ **192.00**

Battery Testers

OTC Test batteries on or off the car in just 10 seconds. Portable size and easy-to-read scales. Features heavy-duty copper-plated clamps, chrome-plated ventilated steel casing and ceramic insulators.



- Determines state of charge, cranking & charging volts
- Load safety switch prevents arcing
- Extra large display w/zero adjust
- Determines good/bad status
- Works on 6- & 12V batteries

Volts 0-16. 100 amp load capacity.

Stk. **693350** Mfg. 3180..... \$ **46.90**

Battery & Electrical Testers



Sabre HP Battery & Electrical System Diagnostic Tester

OTC Digital circuitry precisely controls battery test loads to accurately determine battery conditions. Tests both flooded lead acid and absorbed glass mat batteries down to 1V state of charge. Tests vehicle starting and charging systems with minimal user interaction. Tests 6 & 12V batteries w/a 50-2000 CCA operating range.

- Over-molded enclosure w/soft-touch keys
- Scales: CCA, CA, AHR, MCA, JIS, DIN
- User definable print header & footer
- Flash upgradeable memory in field
- Date/time stamp
- 4 x 20 backlit display
- Removable/auto-sensing leads

Includes 3' test leads, side-post terminal adapters, manual, molded case.

Stk. **693330** Mfg. 3167..... \$ **599.00**

MinuteMan Plus Multi-Purpose Electrical System Tester

OTC Tests batteries, alternators, regulators and starters. Direct-from-battery tachometer feature gives rpm readings without complicated hookups to ignition system. Offers ammeter/voltmeter capabilities. Evaluates discharged or charged batteries in 1-min.



- Tests 12V auto & HD batteries (w/cold cranking amps of 100-1,500)
- Internal battery, no external power source needed
- Checks charging system at high rpms & idle, then stores the data
- Shows regulator volts, peak amps & diode condition
- Uses highly-accurate waveform analysis to test alternator diodes
- Displays cranking volts & amps, indicates good or bad starter
- Test options for accurately diagnosing AGM & spiral (6-pack style) batteries
- English or Spanish menu selection

Includes connector cables, internal rechargeable battery, battery charger, mobile cart w/built-in handles, 2 shelves & manual.

Stk. **693320** Mfg. 3131AGM..... \$ **2,658.00**

Timing Lights



Advance Timing Light

OTC Professional advance timing light allows accurate adjustment of base and advance timing reading. Adjustable knob measures centrifugal, vacuum and computer advance. Use for conventional, electronic, DIS, 2-cycle and computer-controlled ignition systems.

- On/off 1-touch control
- Reflected, super-bright Xenon flash
- Heat-resistant, over-molded clips

• Durable, plated ABS housing w/over-molded grips

Includes metal inductive clamp, detachable lead set w/positive twist-lock connector & molded case.

Stk. **693382** Mfg. 3365..... \$ **145.00**



Digital Timing Light

OTC Microprocessor-controlled circuitry tests conventional, electronic, computer controlled, DIS and 2/4-cycle systems. Professional timing light offers advanced features, a bright LED screen, mode indicator lights, 1-touch control, plus buttons for: up/down scroll, adjustable advance and a flashlight.

- LED displays: tachometer (0-9999 rpm) & advance (1/10)
- Reflected, super-bright Xenon flash
- 2/4-cycle & rpm advance buttons & lights
- Durable, plated ABS housing w/molded grips
- Heat-resistant battery clips w/overmolding

Includes inductive pickup clamp, detachable lead set w/positive twist lock connector & molded case.

Stk. **693384** Mfg. 3367..... \$ **163.00**

OBD I & OBD II Code Scanner®

OTC Multifunctional, ergonomic OBD I and OBD II scanner offers:

- OBD I functionality w/cables (for '84-'95 Ford, '84-'95 GM & '89-'95 Chrysler vehicles)
- OBD II functionality for all 1996 to current compliant vehicles (GM, Ford, Chrysler & some Asian & European)
- Honda OEM enhanced DTC's for OBD II
- Read hard & pending codes w/definitions
- Internal library of trouble code definitions
- Easy-to-use, menu-driven software is fully upgradeable to support future vehicles & tool enhancements via flash programming
- Large, 2-1/2" x 2-1/2" backlit graphic display w/adjustable contrast
- Displays codes & descriptions on the same screen
- Scanning Suite CD offers browsing manuals, print companion, up-date tool & DTC look up
- Erase codes & reset MIL
- View freeze-frame data
- CAN capability
- Off-vehicle data review
- PC upload & printing capability
- 3-yr. mfr.'s warranty



Includes Scanning Suite CD, computer hook-up detachable cables, 6 AAA batteries & nylon case.

Stk. **693400** Mfg. 3498..... \$ **322.00**

Stk. **687734** Mfg. AAA .. Duracell Alkaline AAA Batteries, 4/pkg. **5.85**

Engine Compression Testers



Lisle Quickly and accurately check compression on gasoline engines. Fits 14 and 18mm thread sizes.

Stk. **503828** Mfg. 20250..... 0-300 psi, 0-21 Kg/cm2 \$ **40.00**

Testing Equipment & Supplies, cont.

Engine Compression Testers, cont.

Compression Tester Kit

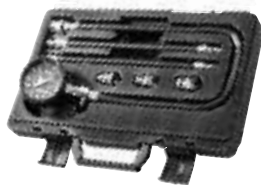
OTC For complete compression testing on gasoline engines, including domestic, imports, motorcycles, marine and small engines. Problem solving features for today's limited space engine compartments.

- Corrosion-resistant nickel-plated finish
- Adapters for flat & tapered seat plugs
- 2-1/2" professional gauge w/zero adjust
- Gauge w/chrome bezel & protective outer boot
- 25" flex hose gauge assembly w/quick coupler allows easy viewing out of cluttered engine compartment

Dual scale gauge reads 0-300 psi & 0-2100 kPa.

Includes 12" flex-14 mm standard & long reach hose, 3 adapters (10, 12 & 18 mm thread), repair parts kit & molded case w/removable lid.

Stk. **693430** Mfg. 5606..... **\$ 78.70**



Vacuum/Pressure Gauge Kit

OTC Accurately test vacuum lines and components including low-pressure fuel systems. Quickly diagnose internal engine problems such as bad rings, valves and leaking head gaskets. Pin point hard-to-find problems such as cracked lines, PCV, fuel pump, fuel filters and more.

- Large 3-1/2" gauge w/chrome bezel & protective outer boot
- Dual purpose gauge reads vacuum & pressure
- Built-in rear hook to hang gauge at eye level

Gauge reads 0-30" Hg vac & 0-70 cm Hg. 0-15 psi & 0-100 kPa.

Includes 3-1/2" face, universal adapter (use for most applications), T-adapter, tapered adapter, detailed chart & molded case (w/removable lid).

Stk. **693415** Mfg. 5613..... **\$ 43.80**



Fuel Pressure Tester Kit

OTC Quickly and easily locate any malfunctioning fuel system component, including fuel filters, pressure regulators, fuel lines and fuel pumps without removal from the vehicle.

- Large, easy-to-read scale
- Solid brass fittings
- Pressure relief valve for safe, clean testing

0-100 psi scale. 0-700 kPa.

Includes adapter.

Stk. **693432** Mfg. 5630..... **\$ 43.80**



Fuel Injection Testers

OTC Fuel injectors can pass a resistance test but still fail under load. With this tool, you can check and balance fuel injectors. Also tests fuel injector coil windings under load, and detects intermittent fuel injector coil faults. Adjustable current output. Works on throttle body and multiport fuel injectors.

Includes TBI adapter.

Stk. **693390** Mfg. 3397..... **\$ 361.00**



Fuel Injection Test Set

Lisle Set checks fuel pressure on most domestic (except GM TBI) and Japanese fuel and throttle body injection systems.

For Bosch AFC, MPC, Digijet/ Digifand (except CIS: Chrysler, Ford, GM & TBI: Japanese fuel injection systems & others using Bendix-type fuel injection or Schrader-type valve including the small Schrader valve found on Ford).

Includes pressure gauge assembly, 2 thread adapters, multi-sized straight hose adapter, T adapter, 5 fuel bold adapters, 5 washers, spring-lock adapter, hair-pin connector & molded case.

Stk. **503939** Mfg. 58600..... **\$ 166.00**

Fuel Injection Testers, cont.

Master Fuel Injection Test Set

Lisle Checks fuel pressure on most Port Fuel Injection (PFI) and Throttle Body Injection (TBI) systems. Comes with a variety of adapters and gauges for checking many types of systems.

Adapts to work with test port connections, end of hose connections and in-line connections. Tests GM, Ford, Chrysler, Honda/Acura, Toyota, Bosch CIS and L-Jetronic.

Includes asst. adapters & gauges, manual & molded case.

Stk. **503737** Mfg. 55700..... **\$ 397.00**



Fuel Injection Pulse Tester

OTC Performs a cylinder balance test when injectors are suspect in engine performance problems. Vehicle-powered tool fires individual injectors in 1/2 sec. increments in 3 different ranges (1 pulse of 500 milliseconds, 50 pulses of 10 milliseconds, 100 pulses of 5 milliseconds). Power and output lights indicate test activation.

Includes wiring harness adapter & instructions.

Stk. **693391** Mfg. 3398..... **\$ 174.00**



Solarity Performance 5-Gas Emissions Repair Solution

OTC Solarity is a drivability and emissions diagnostic tool. Solarity Performance

Gas is an advanced stand-alone gas analyzer. Gas M-P software offers advanced diagnostics providing the ability to troubleshoot emission-related or mechanical system failures.

Meets or exceeds BAR 97, OIML Class 0 accuracy requirements, while providing automated functions to simplify use and operation.

- **Live data display** - Gas M-P software offers complete 5-gas functionality w/hot links directly into vehicle diagnostics
- **Mechanical system diagnosis** - Gas M-P software, combined with the Genisys built-in diagnostic software, provides the ability to perform automated mechanical tasks
- **Emission-related diagnosis menu** - provides a complete emissions manual w/interactive testing
- **Features & functions include:**

- automatic water purge eliminates the need to disassemble water trap or manually drain water
- fluid overload protection keeps liquids from entering system
- automatic zero mode eliminates the need to remove sample probe from the tailpipe
- heavy-duty pump w/extended life expectancy
- heavy-duty filtration w/2-10x longer life
- pump & filtration, plus O₂ & NO_x sensors, are user serviceable
- software can be configured to 3, 4, or 5-gas
- average mass feature allows the conversion of recorded data to grams-per-mile (compares pre- to post-repair data verifying emission changes)
- system configuration allows choice of reading gasses (from gas, propane, methane or variable fuel vehicles)
- has recommended maintenance schedule & gas analyzer status
- **4-Channel full-function scope**
- **4 MB sample rate all channels**
- **Update via Compact Flash or PC**
- **Smart Card security**
- **Sunlight readable display**
- **Modular design allows for expansion**

Includes Solarity w/plug-in 5-Gas Analyzer Module, hoses, Gas M-P software CD, Smart Card, exhaust probe, power cable & battery adapter, RS232 cable, AC power supply, filters, manual & molded case.

Stk. **693422** Mfg. 3855..... **\$ 4,400.00**

AUTOMOTIVE



Testing Equipment & Supplies, cont.

Fuel Injection Testers, cont.



Multi-application Digital Pressure & Temperature Analyzer

OTC Combines the functions of vacuum, oil pressure, hydraulic system pressure, transmission pressure, compression, and air conditioning in unit. Deluxe digital pressure/temperature analyzer has 4 pressure input receptacles and protective boot.

- No need for fuel/transmission hoses inside vehicle during a road test
- Use w/OTC's 3398 to find clogged/dirty fuel injectors (*sold separately*)
- Pinpoints worn power steering pumps or racks
- PSI reading for hydrostatic drives & high pressure hydraulics
- Finds blocked intake ports & plugged catalytic converters
- Checks transmission cooler efficiency & catalytic converter temps
- No makeshift taping of gauges to windshield
- Min/Max pinpoints: fuel restrictions, plugged filters, weak fuel pumps & transmission pressure spikes
- Delta Zero monitors fuel pressure drop caused by faulty check valves
- Displays readings in BAR for checking European specs
- Permits comparison of ABS brake pressure at each wheel

Includes transducer (500 psi), 12' cable, 8-1/2" hose, bead-type temperature probe, assorted fittings, molded case & manual.

Stk. **693392** Mfg. 3490..... **\$ 821.00**

Primary Wire

Coleman Cable General purpose wire for autos, boats, trucks, buses, tractors, trailers and other motor-driven equipment. Black. 100' spool.

Stk. **983160** Mfg. 16-100-11..... 16 ga. **\$ 18.40**
 Stk. **983161** Mfg. 18-100-11..... 18 ga. **14.00**



Vacuum / Windshield Washer Hoses

Compounded not to deteriorate or split from heat or ozone. Resists oil and grease. 50' L.

Stk. **942874** Mfg. 334050..... 5/32" I.D. **\$ 26.50**
 Stk. **942875** Mfg. 334150..... 7/32" I.D. **28.70**
 Stk. **943016** Mfg. 333950..... 7/64" I.D. **24.80**



Fuel Line / Vapor Emission Hoses

Nitrile tube is suitable with lead or unleaded gasoline and many Ethanol and Methanol-based gasohol blends (*not for use w/fuel injected systems*). Meets or exceeds SAE30R7 specifications. 25' L.

Stk. **942876** Mfg. 25060..... 1/4" **\$ 30.70**
 Stk. **942877** Mfg. 25078..... 5/16" **33.00**
 Stk. **942878** Mfg. 25088..... 3/8" **37.60**



Hose Clamps

Industrial/automotive clamp is used for all standard clamp applications. Made of stainless steel with a zinc-plated carbon screw.

Stk. **942640** Mfg. 3504..... 7/32" x 5/8" **\$.60**
 Stk. **942639** Mfg. 3506..... 7/16" x 25/32" **.60**
 Stk. **942918** Mfg. 62010..... 9/16" x 1-1/16" **.82**
 Stk. **942919** Mfg. 62012..... 11/16" x 1-1/4" **.82**
 Stk. **942920** Mfg. 62020..... 13/16" x 1-3/4" **.89**
 Stk. **942921** Mfg. 62028..... 1-15/16" x 2-1/2" **.78**
 Stk. **942922** Mfg. 62036..... 1-13/16" x 2-3/4" **.94**



Circuit Testers

OTC Heavy-duty Coil Cord Designed for testing electrical circuits and locating shorts, grounds, and open circuits. Heavy-duty, stainless steel probe w/insulated shaft checks 6 and 12V systems.

- 12' heavy-duty, red coil cord lead
- Ergonomic slim-designed clear handle
- Bright red, slim-style replaceable bulb
- Positive contact molded strain relief
- Heavy-duty clip w/positive soldered connection



Stk. **693435** Mfg. 3636..... **\$ 23.40**

Lisle The Ultimate Kit Heavy-duty tester signals with a light and buzzer. Tests low voltage up to 28V, finds electrical shorts, checks polarity, detects battery drain and checks circuits from a distance. Heavy-duty coil cord extends over 8'. Detachable, spring-loaded hook pulls center of the wire into the probe. Attach alligator clip to probe for clip-on connections.



Stk. **503838** Mfg. 28640..... **\$ 40.60**

Lisle Computer/Polarity Tester Checks for open or short circuits on 12V automotive computer circuits. Operates at a safe range of 3-28V and draws less than 21mA at 12V DC. Lights indicate positive and negative polarity.



Stk. **503864** Mfg. 24550..... **\$ 15.10**

Lisle Low Circuit Tester Quick check both AC and DC current up to 28V with the power on. Helps locate shorts or breaks in wiring. Complete with insulated grounding clip.



Stk. **503844** Mfg. 26250..... **\$ 7.28**

Lisle High/Low Circuit Tester Low side checks AC and DC current up to 28V with power on. High side checks spark plug wires without piercing. Complete with insulated clip.



Stk. **503927** Mfg. 29500..... **\$ 12.00**

Gardner Bender DC Voltage Tester Checks DC current from 6-12V. Durable ABS housing with pocket clip. 3' test lead with alligator clamp. Sharp tip for piercing insulation. Visual indicator.



Stk. **416718** Mfg. GAT-3400..... **\$ 7.24**

Continuity Tester

Lisle Battery-powered continuity tester for wires, fuses, switches and other electrical systems. Light indicates continuity. Not to be used on live circuits or computer sensor feed circuits.

Requires 1 AA battery, sold separately.

Stk. **503848** Mfg. 26200..... **\$ 9.99**
 Stk. **687720** Mfg. AA..... Duracell Alkaline AA Batteries, 4/pkg. **5.85**



SAVE NOW! **Ear Plugs & Ear Muffs**, page 110.

Check online for our most up-to-date product offerings!

Battery Equipment

Battery Terminals

East Penn Mfg. Heavy-duty lead alloy terminals fit 6 to 2/0 ga. cables.

Top Post. Fits positive or negative posts. Bolt locks firmly from L to R. Steel inserts avoid stripping. Universal unit holds cable or strap. Removable plate for easy assembly. Threaded clamp avoids pull-out.



Stk. **942757** Mfg. 00350 \$ **2.45**



Side Post. Protruding ring assures positive contact & recessed circle affords exact positioning.
Stk. **942758** Mfg. 00351 \$ **2.45**

Battery Terminal Brushes

Lisle Cleans dirt and corrosion from battery terminals and cable clamps. High-impact plastic case will not weaken in cleaning solutions.



Stk. **503740** Mfg. 11120 \$ **7.49**

Side Terminal Brush

Lisle Brush's "coil spring" cutters polish battery contact while stainless steel brushes clean cable terminals.



Stk. **503770** Mfg. 11400 \$ **8.49**

2-Piece Cleaning Brush Set

General Brass and stainless steel brushes clean pipe, battery terminals, spark plugs, etc. Use brass brush to clean softer materials, and steel brush when extra abrasion is needed to clean pipe.



Stk. **419847** Mfg. 1102 \$ **4.32**

Battery Terminal Puller

Lisle Dual-purpose puller easily removes stuck battery terminals and bolted-on wiper blades.



Stk. **503890** Mfg. 54150 \$ **25.10**

Battery Carrier

Lisle Spring-action, form-fitting handle turns lifting power into a solid gripping surface. Works on most batteries.



Stk. **503892** Mfg. 57850 \$ **17.60**

Battery Chargers

Charger/Starter

Schumacher 50/10/2 amp fully-automatic starter/charger. 2 LED lights signal power on and full charged.



50 amp for emergency starting. 2 amp trickle charge for small 12V batteries (2-12 hrs.). 10 amp fast charge for everyday needs (3-5 hrs.). Will not overcharge batteries. UL listed.

Stk. **771809** Mfg. SE-5212A 50/10/2 amp, 12V \$ **77.30**

Battery Companion®

Schumacher 1.5 amp charger and maintainer automatically switches from full charge to float-mode monitoring. Charger maintains 6/12V batteries at full charge. Also charges small batteries, and maintains small and large batteries kept in storage.



Quick-disconnect harness snaps either connector into place in seconds. Use with 50 amp clamps or permanently attach the ring connectors. Great for hard-to-reach batteries. 3 LEDs indicate charging, charged and trouble. Reverse-polarity protection.

Stk. **771815** Mfg. SEM-I562A 1.5 amp, 6 & 12V \$ **41.90**

Battery Chargers, cont.

Engine Charger/Starter

Schumacher 200/40/10 amp manual charger/starter with 6/12V capabilities for mechanics. High output engine start assists batteries in cranking most engines under severe conditions.

200 amp engine start for emergency starting. 40 amp charge for fast charging (1-3 hrs.). 10 amp charge for everyday charging needs (3-5 hrs.).

Maintenance rate maintains batteries. 2 rotary switches for ease-of-use and accuracy. Hold-position timer switch for continuous charging. Cooling fan for longer life. UL listed.

Stk. **771820** Mfg. SE-4020 200/40/10 amp, 6 & 12V \$ **200.00**



Booster Cables

20' Heavy-duty Booster Cable

Master Mechanic Four ga. SAE 100% copper conductors with tough vinyl insulation and color-coded clamps. Provides easy connection from behind, even on large vehicles.



Stk. **943004** Mfg. 601924 500 amps \$ **61.80**

12' Light-duty Booster Cable

Master Mechanic Ten ga. 100% copper conductors. Tough vinyl insulation, tangle-free dual cable construction and color-coded clamps.



Stk. **942959** Mfg. 601896 200 amps \$ **16.90**

Brake Tools

Brake Lathe with Tooling Kit

Kwik-Way Solid cast iron dovetail way construction assures years of vibration and trouble-free operation. Compact design minimizes floor space requirements.

- Positive rake tooling for optimum (OEM) finish w/1 pass, regardless of cut depth
- Single spindle speed rate is set for optimum surface finish & tool life, plus eliminates adjusting feed & speed
- Onboard tool storage rack gives easy access to cones, clamps & spacers
- Heavy-duty Timken bearings assure long term & accurate spindle life
- Tooling Kit covers most passenger car & light truck drums, plus rotors up to 1/2 ton capacity

- 5-yr. mfg.'s warranty
- 1-wrench tool set-up
- USA made

Rotor capacity 4-24". Drum capacity 6-28". Flywheel capacity 6-20".

Feed Rates: rotor .003", drum .005".

Total size: 18"L x 25"W x 19"H (45"H w/stand). Weight 400 lbs. (shipping).

Includes adapters, tooling & silencers, plus 3/32" hex wrench & 5/32" T-handle wrench.

Stk.	Mfg.	Model	Volts	Phase	Price
500730	102-0001-06	102	115	1	\$ 5,665.00

Heavy-duty Bench. 100 lbs. (shipping).

Stk. **500748** Mfg. 104-0200-00 \$ **706.00**

Large Arbor Set. Designed for drum & rotor disc applications on 3/4 ton to heavy-duty trucks. **Includes** 1-7/8" dia. arbor & nut, **plus:**

- 4 bell clamps (two 6-3/8" O.D. & two 9-3/4" O.D.)
- 6 cones (1-L: 2-3/16 to 3-3/8", 2-L: 3-1/16 to 4-7/32", 3-L: 4-3/16 to 5-3/8", 4-L: 5-5/16 to 6-1/2", 5-L: 6-7/16 to 7-5/8" & 6-L: 7-9/16 to 8-3/4")
- 6 spacers (1" & five 2")
- silencer strap
- heavy-duty spring
- washer

Stk. **500740** Mfg. 102-1069-00 \$ **4,067.00**



Brake Tools, cont.

Digital Disc Brake Micrometer

Chicago Brand Features 3-1/4" reach, hardened tips, ratchet and lock. It reads directly to .001" with a range of 0.3" to 1.3".

Includes case.

Stk. **302570** Mfg. 50077 \$ **102.00**



Brake Pliers

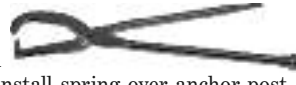
Lisle Lock Ring Pliers Designed for removing and installing lock rings on all types of transmissions, master cylinders, brakes, etc. Jaws are knurled on the end to prevent slipping.

Stk. **503868** Mfg. 44900 \$ **17.90**



Lisle Brake Spring Pliers Double-ended tool for removing and installing brake springs. Use pliers' tips to stretch brake spring. Handle ends remove and install spring over anchor post.

Stk. **503750** Mfg. 11260 \$ **24.10**



Brake Spring Tool

Lisle Easily remove and replace brake return springs that are set over a post. "Shoe horn" design on opposite end makes it easy to slip the spring back over the post. Its large handle provides a good grip and easy operation.

Stk. **503874** Mfg. 46750 \$ **10.60**



Retaining Ring Pliers & Sets

Lisle For internal and external snap rings that can compress internal rings and expand external rings. Features an easy, quick change reversing lever.

Includes 4 pairs of tips (.045" & .060" straight tips, .045" 45° tips & .035" 90° tips).

Stk. **503872** Mfg. 46000 \$ **14.70**



CHANNEL LOCK Converts from internal to external rings with the switch of a tab.

For external rings 1/4" to 2", internal rings 3/8" to 2".

Includes 6 tip sets (.036", .047" & .070" straight tips, .036", .047" & 90° tips).

Stk. **301540** Mfg. 927 \$ **31.20**



OTC 16-Piece Pliers & Tips Set

Includes internal ring pliers, external ring pliers & 16 tip sets (four .038" 90° tips, four .047" 45° tips, plus eight ea. of .047" & .070" straight tips).

Stk. **693317** Mfg. 7053K \$ **56.00**



12-Piece Retaining Ring Pliers & Tips Sets

Proto Use to convert internal to external or external to internal, when pivot screw is moved to adjacent tapped hole.

Includes 1 pair each of:

- .038" tip size in angles of 0° (5-7/8"L), 45° (5-3/4"L) & 90° (5-11/16"L)
- .047" tip size in angles of 0° (5-7/8"L), 45° (5-3/4"L) & 90° (5-11/16"L)
- .070" tip size in angles of 0° (7-1/2"L), 45° (7-3/8"L) & 90° (7-1/8"L)
- .090" tip size angles of 0° (9-1/4"L), 45° (9"L) & 90° (8-5/8"L)
- 12 convertible retaining ring pliers & case

Stk. **903060** Mfg. 360B \$ **412.00**



3-Piece Brake Caliper Socket Set

Lisle For servicing disc brakes. 3/8" square drive sockets with hex bits remove and replace floating caliper mounting bolts. 3/8" and 8mm hex bits for GM and 1/4" hex bit for Ford.

Includes 1/4", 8mm & 3/8" sockets.

Stk. **503802** Mfg. 12550 \$ **8.49**



Universal Disc Brake Caliper Tool

Lisle For rotating the brake piston back into the caliper to provide clearance for new pads. 5 adapters for use in 2 and 4-wheel disc brake assemblies of most domestic and import cars (adapter 2B fits Mazda 3 & some Jaguar applications). Tool makes the job easy while preventing damage to the piston and boot.

Stk. **503732** Mfg. 25000 \$ **86.50**



Bearing Race & Seal Driver

Lisle For inserting bearing race straight on the first try. Helps reduce damage to both race and axle housing. 6 disc sizes (1.565", 1.775", 1.965", 2.325", 2.470" and 2.555") fit most standard bearing race sizes. Turn discs over to drive seals.

Stk. **503804** Mfg. 12600 \$ **37.70**



Brake Bleeder Wrenches

Lisle Designed for bleeding air from brake cylinders with bleeder screws. Tools are double-ended and offset for easy access.

Stk. **503730** Mfg. 10900 for 5/16" to 3/8" screws \$ **8.29**

Stk. **503731** Mfg. 10950 for 1/4" to 3/8" screws \$ **8.29**



Brake Adjusting Tool

Lisle Speeds star wheel adjusting. Insert tool through slot in backing plate. Different angle at each end adapts to various makes and models.

Stk. **503886** Mfg. 50700 \$ **5.19**



Brake Spring Washer Tool

Lisle Fits both large and small washers. Wide window allows better visibility to align the nail and washer slot.

Stk. **503866** Mfg. 47400 \$ **7.49**



Deluxe Metal Vacuum Pump

OTC One person, multi-purpose pump for vacuum testing and brake bleeding. Made of die cast metal, the repairable pump will develop and hold about 25" of mercury vacuum. Contains all the parts needed to quickly fix most brake jobs.

Includes easy-to-read gauge (w/inch & mm graduations), reservoir jar, transfer & storage lids, rubber cup adapter, brake-bleeding adapters, tubing & molded case.

Stk. **693440** Mfg. 7559 \$ **129.00**



Disc Pad Spreader

Lisle For installing pads on most domestic and import cars and light trucks. Tool compresses disc brake piston for easy pad installation.

Stk. **503842** Mfg. 24400 \$ **9.50**



Brake Tools, cont.

Disc Brake Piston Tool

Lisle Rotates pistons back into the caliper when replacing pads. Great for vehicles with 4 wheel disc brakes. 6 piston configurations fits most domestic and some import applications. Use with 3/8" drive ratchet and extension.



Stk. **503929** Mfg. 28600..... \$ **12.00**

Mini Tubing Cutter

Lisle Smooth nylon action cuts tubing quickly. Small size for use in tight places. Cuts all type of metal tubing. Easy-to-use nylon cutter is noncorrosive for long life. 5/8" O.D. capacity.



Stk. **503888** Mfg. 50000..... \$ **8.00**

Wheel Tools

Tire Spreader

Coats Adjustable spreader action from 0" to 10". Handles from small lawn mower tires to wide track tires. Locks into position for various widths.



Locking handle and slide lock are replaceable. Fits all Coats model center posts for easy top-of-machine working heights.

Stk. **471402** Mfg. 108028..... \$ **175.00**

Inflator Gauge

Milton Heavy-duty inflator gauge for everyday use. Magnifying lens with thin line indicator ring allows full view of scale. Measures 10 lbs. to 120 lbs. in 2 lb. increments. Gauge has full swivel dual head chuck.



Stk. **968370** Mfg. 506..... \$ **47.50**

Tire Tread Depth Gauge

Milton Tire tread depth gauge has a large base, flat blade and pocket clip. Accurately measures the depth of the new "Sipe Treads" as well as conventional treads. Round aluminum indicator bar calibrated from 0 to 1" in 1/32" markings. A must for determining remaining tire life.



Stk. **968364** Mfg. 448..... \$ **5.00**

Wheel Balancers

Offers Features Usually Found Only On More Elaborate Machines



Light-duty Balancer

Coats Beginners will quickly balance tires using the integrated LED matrix display with easy-to-read visual cues for proper balancing techniques and keypad entry for accuracy ($\pm 1/100$ oz.). Balancer can also be self calibrated.

- Handles standard OEM tires
- Small footprint to fit most anywhere
- Rugged dependability & performance
- 10 balancing modes, multiple static, dynamic & alloy modes

• Tape-a-weight & hidden-weight capabilities keep weights out of sight for OE alloys

Max. rim size 30" dia. & 2"-20"W. Max. tire size 40" dia. & 100 lbs.

110V, 1 phase motor. Balancing speed 100 rpm.

Unit size 35"W x 18"D x 40"H. Weight 198 lbs. (shipping).

Stk. **471088** Mfg. 775..... \$ **3,135.00**

Wheel Tools, cont.

Stop the "Hop!"

Wheel Balancers, cont.

Tried & True Technology
Center Post
Tire Changer
Model 4050A



Coats Dependable, accurate unit features single-stage operation with bead loosening, demounting, mounting and inflation all performed in the same position.

Comes equipped with a generous 7.5 gal. surge tank, 50% larger than other competitive models. Contoured tabletop for proper rim support and state-of-the-art components for quality performance with less effort.

- Centering cone mounts on center post to hold down wheel
- Foot actuated control operates 7" & 5" auxiliary cylinder that loosens both beads simultaneously on wheels up to 19"W
- Powered by dual chrome-plated air cylinders
- Standard pressure limiter
- Bead seating reservoir located in 7.5 gal. external ASME tank
- Inflation gauge is permanently mounted in table cover
- 0-60 psi inflation gauge is easily calibrated & has damage resistant Lexan™ faceplate
- Separate tool engages center post
- 28.5" table height
- 0-300 psi air supply gauge
- Includes storage tray

Max rim size 10" to 17" dia. & 19"W. Max tire size 38" dia.

Drive system: air.

Required air source: 110-175 psi, 2 HP compressor, 5 scfm min. @ 150 psi. Unit size 53"W x 17.5"D x 42"H. Weight 575 lbs. (shipping).

Stk. **471220** Mfg. 4050..... \$ **3,948.00**

Static Wheel Balancer

Coats Eliminate up and down vibration caused by wheel and tire assemblies that have static imbalance. This tool also eliminates premature tire and parts wear caused by excessive vibration.



- For most passenger cars & many light truck wheels - wheel center hole range is 1.5" to 4.5"

Stk. **468695** Mfg. M-61..... \$ **324.00**

Tire Pressure Testers

Milton Easy-to-read nylon indicator bar is calibrated 2 sides from 10 to 160 lbs. in 2 lb. units and 2 sides from 80 to 1,100 kPa in 20 kPa units.



Stk. **968675** Mfg. 976..... \$ **20.30**

Milton Pencil-type tire tester calibrated in 1 lb. steps from 5 to 50 lbs.



Stk. **968670** Mfg. 921..... \$ **6.09**

Milton Pencil-type tire gauge provides the finest in accurate, long life and trouble free performance. For use on bicycles, RVs and trucks. Nylon indicator bar with red marker. Gauge has 2 sides measuring from 20 to 120 psi in 2 lb. increments, and from 120 to 820 kPa in 20 kPa increments.



Stk. **968672** Mfg. 925..... \$ **6.30**

Milton Dual chuck truck tire gauge, 2 sides 20 to 120 psi in 2 lb. increments and 2 sides 120 to 820 in 20 kPa increments.



Stk. **968673** Mfg. 927..... \$ **9.24**

Milton Digital Gauge Easy-to-use, instant read tester with auto on/off. 2-60 psi.



Stk. **968740** Mfg. 99900..... \$ **15.00**

Wheel Tools, cont.

Tire Pressure Testers, cont.

Victor Mini Dial Gauge Easy-to-read compact gauge for auto, SUV, RV and light trucks. 5-60 psi.

Stk. **942648** Mfg. 22-5-08770-8. **\$ 6.37**



Dual Head Air Chuck

Milton Manufactured to exacting standards. 1/4" female N.P.T.

Sealing type chuck is not to be used w/Milton inflator gauge.

Stk. **968396** Mfg. 690 **\$ 7.31**



Cross Rim Wrench

Custom 20"L. Hexagon openings, sizes 3/4", 13/16", 7/8" and 15/16".

Stk. **968201** Mfg. 84442 **\$ 19.80**



4-in-1 Valve Repair Tool

Milton For valve stem and core. Rethreads inside and outside of valve stem. Insert, tighten or remove valve core. Removes core if shoulders are broken. Steel-plated corrosion resistant.

Stk. **968360** Mfg. 445 **\$ 1.80**

Valve Insertion & Removal Tool

Milton All-steel tool provides leverage for positive seating and removal of "snap-in" type valves. Deep threaded head assures ease of valve stem attachment. Plated to resist corrosion.

Stk. **968365** Mfg. 449 **\$ 9.56**



Tire Repair Kits

Victor Repairs steel belted tires.

Includes 3 black strings, needle, rasp & cement.

Stk. **942953** Mfg. M8804. **\$ 4.62**



Victor Heavy-duty Kit Repairs all tire types.

Includes 5 black strings, pistol grip rasp, insert tools.

Stk. **942952** Mfg. M8710 **\$ 10.10**



Auto Body Tools & Products

Soft Face Hammers

Stanley Replaceable tips are made of tough plastic that won't mar finely finished surfaces. Handles are made of hickory securely locked in steel center body.

Stk.	Mfg.	Head Weight	Handle Length	Price
859023	57-594	8 oz.	12"	\$ 23.30
859090	57-595	16 oz.	13-1/2"	26.10



Pry Bars

Aligning Pry Bars

Pony For hole alignment and prying work. Heavy-duty, alloy steel bars are hardened and tempered for strength and durability. Acrylic-coated, forged ends. Enamel-painted, non-striking surfaces resist rust.

Stk.	Mfg.	Stock	Length	Price
192430	64-454	3/4"	24"	\$ 12.00
192431	64-460	3/4"	30"	15.50



Auto Body Tools & Products, cont.

Roll Head Bars

Mayhew Top-quality forged steel is heat-treated for superior strength. 90° angle bar provides great leverage for tough jobs.

Stk.	Mfg.	Stock	Length	Price
528610	40101	1/2"	16"	\$ 15.80
528611	40102	5/8"	18"	19.30



Car Door Handle Spring Remover

Zim For General Motors and Ford cars. Removes spring clip from behind door and window handle. Steel, chrome finish.

Stk. **988474** Mfg. 720 **\$ 6.39**



Door Panel Remover

Lisle Bent handle design allows use where space is limited, and provides extra prying force. Square cut-out tip provides a no-slip grip, even on fasteners with small ears.

Stk. **503860** Mfg. 35350. **\$ 15.10**



Window Belt Molding Remover

Lisle Powder-coated tool quickly removes belt molding without damage to window or molding. Fits most domestic and import vehicles.

Stk. **503749** Mfg. 35150 **\$ 16.10**



Door Upholstery Remover

Lisle Heavy duty, with large comfortable handle to easily remove plastic fasteners.

Stk. **503928** Mfg. 35400. **\$ 9.29**



5-Piece Super Out Screw Extractor Set

Lisle Extremely strong set made of special hardened, shock-resistant tool steel. Works on left- and right-hand threads. Extractors cut their way straight into bolts, eliminating wedging or further tightening of frozen bolts and screws. Extracts 1/4" to 1/2" bolts and screws.

Includes 5 extractors (removes bolt sizes 1/4", 5/16", 3/8", 7/16", 1/2").
Stk. **503898** Mfg. 62900. **\$ 16.90**



Interchangeable Autobody Forming & Punch Kit

OTC Handle allows easy grip and protects hand from being hit by hammer. Double-locking ball detent holds tool securely in the driver handle.

Includes drive handle & 11 tools (small curve, cross curve, round ball-pein, one-sided flat blade, curve blade, pointed ball-pein, angle face, flat blade, square face, angle groove & round face).

Stk. **693428** Mfg. 4756. **\$ 73.40**



Masking Tape

Intertape Economy grade tape for various uses.

Stk.	Mfg.	Size	Price
590224	200	60 yd. x 1/2"	\$ 1.48
590226	5142-18E	60 yd. x 3/4"	1.58
590228	5142-24A	60 yd. x 1"	2.11
590230	5142-36A	60 yd. x 1-1/2"	3.18
590232	5142-48A	60 yd. x 2"	4.21



Sanders & Supplies

Sanding Blocks

Stanley Hard but flexible rubber. Paper clamps easily and quickly. Sheet size is 2-3/4" x 9".

Stk. **851530** Mfg. 28-212 \$ **3.63**



Ergonomic Palm Sander Disc Kit

NORTON Finger-grip indentations and curved design quickly convert a 5" dia. hook & loop disc into a comfortable palm sander for finishing flat surfaces.

Stk. **600511** Mfg. 03147 \$ **22.20**



Sanding Sponges

NORTON Flexible sanding sponge for curved or flat surfaces. Lasts longer than sandpaper.

- Convenient & easy to use wet or dry
- Use on wood, paint, metal, plastic & drywall
- Reusable & washable to eliminate loading for increased sanding life



Stk.	Mfg.	Grit	Sponge Size	Qty./Pkg.	Price
Small area sanding sponges					
608524	49504	fine/medium	4" x 2-3/4" x 1"	24..	\$ 32.90
608525	49505	medium/coarse	4" x 2-3/4" x 1"	24..	32.90
Contour sanding sponges					
598952	00937	extra fine	4-1/2" x 5-1/2" x 3/16"	2...	\$ 3.00
598953	00938	fine	4-1/2" x 5-1/2" x 3/16"	2...	3.00
598954	00939	medium	4-1/2" x 5-1/2" x 3/16"	2...	3.00
Flexible sanding sponges for wood, paint & drywall surfaces					
598965	00946	fine	3" x 4" x 1/2"	3...	\$ 1.89
598967	00947	medium	3" x 4" x 1/2"	3...	1.89
598969	00948	coarse	3" x 4" x 1/2"	3...	1.89
Paint & drywall sanding sponges					
598955	00941	medium/fine	4-7/8" x 2-7/8" x 1"	1...	\$ 3.36
598957	00944	medium/fine	3-5/16" x 9" x 1"	1...	5.25

Sandpaper

NORTON Durite Tufbak For sanding between coats of primers and other finishes on wood or metal with water or other lubricants. Diamond-like silicon carbide abrasive is electro-coated to a tough, water-proof backing on B or C weight paper. 9" x 11" sheets.

Stk.	Mfg.	Grit	Price/50 Sheets
599090	01150	180-C	\$ 47.90
599095	01155	150-C	47.90
599100	01160	120-C	50.00
599105	01165	100-C	58.30
599110	01170	80-C	66.00
598995	39360	600B	\$ 39.60
599000	39361	500B	39.60
599005	39362	400B	39.60
599020	39364	320B	39.60
599072	39365	280B	39.60
599085	39367	220B	39.60

Protect student's hands with
Leather, Cloth or Plastic Gloves,
pages 100-101.

Cleaning & Wiping Cloths

*Impregnated to Pick Up & Hold
Loose Particles Adhering to Wood or Metal*

Tan Tack Cloth

TuffPro Premium quality pre-finish duster cloth made of 100% cotton surgical cheese-cloth. The medium-heavy tan tack is safe for all finishes. Use between coats when refinishing wood or metalworking projects.

Stk. **942868** Mfg. 10501 18" x 36" \$ **1.35**



White Rags in a Box

Scott The strength of cloth with the absorbency of a sponge. Pop-up box of rags.

Stk. **942724** Mfg. 75240 85/box \$ **7.66**

Stk. **942725** Mfg. 75260 200/box **18.50**



Wiping Cloths

Kimberly-Clark Cloth-like towels for heavy cleaning or polishing. 12" x 15" white cloths. Ideal for cleaning jobs. 56 sheets/pkg.

Stk. **482779** Mfg. KIM-05701 .. 18 pkg./case \$ **110.00**



Shop Towels

Intex Red cotton mechanics shop towels for oil or grease spills. Also great for general cleanup.

Stk. **942823** Mfg. S-93111-23DG 25/pkg. \$ **10.80**



Exact Cuts

Intex Exact cut T-shirt rags for painting and staining. Each 14" x 16" cloth comes without seams, holes or ragged, stringy edges. Prewashed for super absorbency and low lint.

Stk. **942903** Mfg. W-30005 30/box \$ **15.80**



Contractor's Choice

Intex Lint-free rags for painting, staining, polishing and cleaning. White washed and bleached all new cotton T-shirt rags are extra absorbent and soft.

Stk. **942901** Mfg. 6414-10... 10 lb. box \$ **29.80**



C-Fold Towels

Kimberly-Clark White 1-ply, C-fold hand towels. 175 sheets/pkg.

Stk. **482783** Mfg. 01980 25 pkg./case \$ **78.60**

Stk. **482782** Mfg. 09905 Dispenser (gray) **64.50**



Fast, Easy, Spotless Drying

Chamois

Tanner Durable, fast absorbing sheepskin chamois. Scratch-free drying and polishing without streaks or spots. 100% cod oil tanned for super absorbency.

Stk. **942965** Mfg. TSX 1-1/2 sq./ft. \$ **7.35**

Stk. **942966** Mfg. TS20 2-1/2 sq./ft. **12.20**

Commercial Sponge

3M Extra-large, highly-absorbent cellulose sponge is durable and less likely to fall apart. 7.5"L x 4.4"W x 2"H.

Stk. **943246** Mfg. 7456-T \$ **3.65**



Hand Cleaners



Pumice, Original & Orange Formulas Remove Grease & Grime
Go-Jo® Hand Cleaners

Go-Jo A complete line of heavy to medium-duty hand cleaners. Effective on a wide range of soils. Specialized hand cleaners are formulated for specific soil types.

Stk.	Mfg.	Size	Style	Price
Use <i>Crème-Style®</i> Dispenser w/cartridge size cleaners, sold separately.				
Heaviest Grease & Oil Cleaners				
Fine Italian w/Pumice. Crème formula fine pumice particles for extra cleaning action. Removes heavy grease, tar & oil.				
968045	1135-06	4 lb.	plastic cartridge	\$ 21.00
Original Formula™. Crème formula contains soothing emollients. Removes heavy grease, tar & oil. Rub, then wipe clean w/towel or rinse off.				
968040	1115-06	4.5 lbs.	plastic cartridge	\$ 19.00
968050	1141-12	14 oz.	plastic cartridge	3.03

Heaviest Grease & Oil Cleaners

Fine Italian w/Pumice. Crème formula fine pumice particles for extra cleaning action. Removes heavy grease, tar & oil.

968045 1135-06 4 lb. plastic cartridge \$ 21.00

Original Formula™. Crème formula contains soothing emollients. Removes heavy grease, tar & oil. Rub, then wipe clean w/towel or rinse off.

968040 1115-06 4.5 lbs. plastic cartridge \$ 19.00

968050 1141-12 14 oz. plastic cartridge 3.03

Crème-Style Dispenser. For Fine Italian w/Pumice, Original Formula & Orange Smooth above (also for 0905-06, 0915-06, 1075-06, 1095-06, 1144-06 & 1145-06).
 Stk. **968070** Mfg. 1204-01 \$ 25.70



Multi-purpose Light & Medium-duty Cleaners

Natural Orange™ Smooth Formula. Quick-acting lotion formula for cleaning industrial soils, medium dirt & grease. Orange scent.

968015 0947-12 14 oz. squeeze bottle w/nail brush \$ 5.55

968014 0945-04 1 gal. bottle w/pump 18.80

Natural Orange™ w/Pumice. Quick-acting lotion w/pumice scrubbing particles clean industrial soils, medium dirt & grease. Orange scent.

968018 0957-12 14 oz. squeeze bottle w/nail brush \$ 5.55

968017 0955-02 1 gal. bottle w/pump 18.80

Lava Bar Soap

Lava The original pumice powdered heavy-duty hand cleaner. Cleans away grease, oil, tar, ink, paint, adhesives, caulk and lubricants.

Stk. **942817** Mfg. 10086 ... two 5.75 oz. bars \$ 4.54



Powdered Hand Soap

Boraxo A mild abrasive that gets the dirt and grime out of hands. 5 lb. box with pour spout.

Stk. **942816** Mfg. 02303 \$ 15.30



Klein Kleeners

Klein Pre-moistened hand towels clean like a pumice-based lotion, but without the messy, gritty residue. No rinsing or drying, just sink-free cleaning.

Works on oils, tar, adhesives, asphalt, wax, graphite, grease, and more. Polyethylene bucket with a resealable dispenser prevents the towels from drying out if the closure is left open.

Includes 72 towels (10-1/2" x 12-1/4" each).

Stk. **945317** Mfg. 51425 \$ 20.90



Kills 99.9% of Germs in as Little as 15 Seconds! Instant Hand Sanitizer

Dial For fewer student sick days, use hand sanitizer to kill harmful germs. No soap, water or towels needed. Contains moisturizers and leaves no harmful residue. Dermatologist tested and hypoallergenic.

Stk. **943157** Mfg. 01219 7.5 oz. \$ 4.23



Go-Jo® Lotion Hand Cleaner

Go-Jo Mild cleansing lotion soap for general use. Pink, synthetic detergent formula. Dispenser is ADA compliant.

Stk. **968072** Mfg. 9112-12 800 ml. (bag-in-bag) \$ 6.82
 Stk. **968071** Mfg. 9034-12 Dispenser (white) 17.10

Shop Towel Wet Wipes

Scott Extra large wet wipes in a handy pop-up dispenser. Pre-moistened with dipentene for hand cleaning wipes, plus wiper and cleanser combined. Easily removes grease, grime, oil, paint and ink.

Includes 30 wipes (12" x 7" each).

Stk. **942637** Mfg. 58028 \$ 6.10



Easily Cut Grease & Grime

Degreasers & Stain Removers

Original Krud Kutter

Krud Kutter Cut grease, grime, oil, tar, wax and more - *fast!* Spray to safely clean food stains, dried latex paint, paint overspray, tape residue, glue and adhesive, acid rain, bird droppings, smoke damage, tree sap, marker, crayon, brake dust, oxidation, scuff marks, blood stains, gum, soap scum, mildew stains.

Use for pressure washers and carpet cleaning machines. Environmentally-friendly water-based, nontoxic, nonabrasive, biodegradable cleaner.

Stk. **889350** Mfg. KK32 32 oz. \$ 12.40
 Stk. **889345** Mfg. KK01 1 gal. 24.10



Gunk Citrus Degreaser

Gunk Industrial water-based, all-purpose citrus cleaner attacks tough, stubborn soils and stains. Wipes off easily and quickly. Environmentally-friendly low VOC (-8%), formulated with biodegradable ingredients (no butyl cellosolve, chlorinated solvents or nonylphenol surfactants). 19 oz. features a 360° valve and sprays upside down.

Stk. **688190** Mfg. PDWCT19 19 oz. \$ 7.32
 Stk. **688195** Mfg. PDWCT-1G 1 gal. 27.80



Tough Task Citrus Remover

Krud Kutter Commercial-strength formula safely and easily removes chewing gum, dried latex paint, stickers, tape, glue, ink, crayon, shoe polish, tar, asphalt, oil, grease, lipstick, soap scum, mildew and cosmetics.

Not for use on leather, wood or other varnished surfaces. Environmentally-friendly cleaner is nontoxic, nonabrasive, nonflammable and biodegradable.

Stk. **889343** Mfg. KC32 32 oz. \$ 12.60



Degreasers & Stain Removers, cont.

Gunk All-purpose Cleaner

Gunk Non-toxic, biodegradable and non-corrosive surface cleaner removes grease, dirt, and grime. Spray nozzle adjusts for stream or mist. Lilac scent.

Stk. **688200** Mfg. PG33 33 oz. **\$ 5.09**



Tough Task Remover

Krud Kutter Safely removes chewing gum, masking tape, printer's ink, soap scum, scuff marks, food stains, crayons, grease, oil, stickers, ink, shoe polish, wax, most glues, lipstick, tar and more. Environmentally-friendly, water-based, nontoxic, nonabrasive, biodegradable cleaner.

Stk. **889348** Mfg. KR01 1 gal. **\$ 29.30**



Rust Removers

Replaces Sanding & Scraping Naval Jelly

Duro Chemically removes rust from all iron and steel surfaces. Brush-on, wash off.

Stk. **504290** Mfg. 01-80277 1 pt. **\$ 7.36**



Spray to Dissolve Rust & Protect Surface The Must for Rust

Krud Kutter Water-based formula penetrates metal surfaces to dissolve rust and oxidation through chemical action. Rust-inhibiting crystals bond with metal to resist rusting. Once dry, surface may be painted, welded, plated, lubricated or left bare. Spray, brush or dip on rusted or new metal, galvanized metal, aluminum, stainless steel, cast iron, chrome, brass, concrete, brick, stucco, stone, marble, porcelain, fiberglass, ceramic, glass, rubber and plastic.

Stk. **889360** Mfg. MR32 32 oz. **\$ 14.70**



3-in-1 Penetrant Spray

WD-40 Professional aerosol has fast-acting formula to loosen rusted and stuck nuts, bolts and parts.

Stk. **966012** Mfg. 10040 11 oz. **\$ 4.28**



Metal Polish

Noxon Use to clean and shine brass, bronze, copper, chromium, stainless steel, aluminum and pewter.

Stk. **942803** Mfg. 00117 12 oz. **\$ 5.72**

Engine Dressings & Cleaners

Belt Dressing & Conditioner

Permatex Extends belt life by penetrating V belt cord fibers to restore flexibility. Prevents slippage due to heat, cold, dampness, dust and glazing. Eliminates squeaking. Flammable contents.

Stk. **504460** Mfg. 120DA 12 oz. **\$ 8.17**



Engine Dressings & Cleaners, cont.

Pro Series Parts Cleaner

Gunk High solvency and fast evaporation, cleaner instantly degreases conventional and disc brake assemblies. Dissolves and flushes away brake fluid, grease, oil and other contaminants without disassembly.

Stk. **688160** Mfg. M720 19 oz. **\$ 6.15**



Ultra-low VOC Brake Cleaner

Gunk Cleans and degreases brake linings, cylinders, drums, rotors, clutches, CV joints, etc. Non-chlorinated acetone, toluene and carbon dioxide formula is compliant (*used in any amount*) in all jurisdictions.

Stk. **688150** Mfg. M710 14 oz. **\$ 6.17**

Disc Brake Quiet Spray

Gunk Aerosol spray stops disc brake squeal and eliminates pad chatter.

Stk. **688130** Mfg. M609 9 oz. **\$ 7.01**



Gumout Carb & Choke Cleaner

Pennzoil Jet spray carburetor and choke cleaner cleans the outside of the carburetor linkage, the inside of the carburetor throat and the PCV valves.

Stk. **943153** Mfg. 7459 16.25 oz. **\$ 4.48**

Non-chlorinated Carb-Medic®

Gunk California compliant, low VOC carb, valve and choke cleaner. Powerful blend of solvents quickly remove dirt, varnish, gum, carbon deposits, and sludge from carburetor and combustion chamber of gasoline engines.

Stk. **688178** Mfg. M4815NC 12.5 oz. **\$ 4.38**



Carb-Medic® Carburetor Parts Cleaner

Gunk Powerful solvents quickly remove dirt, varnish, gum, carbon deposits and sludge from the carburetor and combustion chamber of gasoline engines.

Stk. **688180** Mfg. M4816 12 oz. **\$ 5.36**

Carburetor & Parts Cleaner

Gunk Earth-friendly solvent thoroughly cleans metal parts. It also removes soil and grime deposits, plus paint and varnish.

Includes dip basket.

Stk. **688110** Mfg. CC3K 96 oz. **\$ 35.20**



Thrust® Quick Starting Fluid

Gunk High-temperature fluid starts gasoline and diesel engines. For cars, trucks, tractors and other motorized equipment.

Stk. **688175** Mfg. M3815 11 oz. **\$ 4.21**

Foamy Engine Brite

Gunk Foaming degreaser removes heavy grease, dirt and grime from most engines. Fast acting, highly effective.

Stk. **942894** Mfg. FEB1 17 oz. **\$ 5.68**



AUTOMOTIVE

Engine Dressings & Cleaners, cont.

Engine Brite

Gunk Aerosol engine degreaser for gas or diesel engines, farm and construction equipment, bicycles and industrial machinery. Spray on, hose off.

Stk. **942979** Mfg. EBI 15 oz. \$ **6.33**



Gasket Makers & Remover, cont.

790 Chisel Gasket Remover

Loctite Quickly removes baked-on gaskets, sealants and adhesives. Works on silicone, weather-strip, carbon deposits, dried oil, grease or paint. Prepares metal parts for new gaskets and assembly.

Stk. **682855** Mfg. LM50-79040 18 oz. \$ **23.80**



Gasket Makers & Remover

Form-a-Gasket® No. 1 Sealant

Permatex Fast-drying, hard-setting sealant for sealing rigid materials and flanges, or patching holes and joints for permanent assembly. Use for spark plugs, threaded connections and manifold gaskets. Resists common shop fluids and fuels. Works from -65°F to 400°F.

Stk. **504495** Mfg. 80008 3 oz. \$ **5.34**



Rubberized Undercoat Aerosol

Bondo Undercoating produces a textured finish that resists chipping, abrasion, exterior rusting and weathering. Provides 1-coat build-up without dripping, running or sagging.

Single coating seals wheel wells and undercarriage, gutters and roofs, tree wounds, posts, plus offers sound deadening properties. Non-paintable asphalt based.

Stk. **590398** Mfg. 737 18 oz. \$ **9.20**



Form-a-Gasket® No. 2 Sealant

Permatex Slow-drying, non-hardening sealant for sealing cut gaskets and stamped parts. Allows for easy disassembly. Use for sealing, not adhesion. Resists common shop fluids and fuels. Works from -65°F to 400°F.

Stk. **504496** Mfg. 80016 3 oz. \$ **5.94**



Lubricants

White Lithium Grease

AGS Lith-Ease® Aerosol white lithium grease is a long-lasting lubricant with excellent water and heat resistance. Protects against corrosion.

Stk. **943152** Mfg. WL-16 10.25 oz. \$ **4.67**



Form-a-Gasket® Sensor-Safe Blue RTV Silicone Gasket Maker

Permatex Silicone gasket maker replaces almost any cut gasket. Makes reliable formed-in-place gaskets that withstand temps to 500°F and high pressures. Resists cracking, shrinking and migrating caused by thermal cycling. Coats pre-cut gaskets to increase reliability. Dries tough and flexible. First generation 1970-1980 gasket maker.

Stk. **504375** Mfg. 6BR 3 oz. \$ **6.76**



Anti-seize Lubricant

Permatex Prevents thread galling, corrosion and cold welding in heavy-duty applications at temperatures -65°F (-54°C) to 2,000°F (1,000°C). Assures easier disassembly. Will not wash out or throw off. Resists moisture, salt and corrosion.

Stk. **504478** Mfg. 133AR 1 oz. tube \$ **5.12**
Stk. **504482** Mfg. 133K 1/2 pt. brush-top can \$ **14.30**



High-Temp RTV Silicone Gasket Maker

Permatex Formulated for high temp. applications and heavy-duty use. Replaces almost any cut gasket. Makes reliable formed-in-place gaskets that resist cracking, shrinking and migrating caused by thermal cycling. Coats pre-cut gaskets to increase reliability. Temp. range -75°F to 650°F intermittent. First generation 1970-1980 gasket maker.

Stk. **504405** Mfg. 26BR 3 oz. \$ **10.70**



Liquid Wrench® Silicone Spray

Gunk Compatible with all metals, rubber, plastic and wood. High-viscosity formula eliminates squeaks and lubricates all kinds of mechanical and automotive equipment.

Stk. **688140** Mfg. M914 11 oz. \$ **6.08**



Ultra Blue® Sensor-Safe RTV Silicone Gasket Maker

Permatex Designed to meet today's technology changes. Sensor safe, low odor, noncorrosive. Outstanding oil resistance and joint movement values. 8x more flexible than cork/composite gaskets, 3 times more oil resistant than conventional silicone. Temperature range -75°F to 500°F intermittent, resists auto and shop fluids and vibration.

Stk. **504440** Mfg. 77BR 3.35 oz. \$ **9.70**



3-in-1 Silicone Spray

WD-40 High performance, professional lubrication spray with a quick drying, no mess formula. Safe on metal, rubber, wood and vinyl.

Stk. **966011** Mfg. 10041 11 oz. \$ **4.39**



Liquid Wrench® Dry Lubricant with Cerflon®

Gunk Lubricates and protects while leaving a dry film with no oily residue. Long lasting application will not collect dust.

Stk. **688120** Mfg. PL511 10 oz. \$ **9.00**



Aviation Form-a-Gasket® No. 3 Sealant

Permatex Slow-drying, non-hardening brush-top sealant approved for use in aviation and auto applications. Use for close-fitting machined surfaces, sealing hoses, solid gaskets. Works from -65°F to 400°F. Resists gasoline, oil and grease.

Stk. **504497** Mfg. 80019 4 oz. \$ **8.26**



Dielectric Silicone Compound

AGS Silicone/bulb grease locks out moisture and avoids corrosion. Seals and protects all electrical connections.

Stk. **942632** Mfg. DS-2 0.08 oz. \$ **3.15**



Lubricants, cont.

3-in-1 Oil

WD-40 The multi-purpose oil that does it all. It lubricates, cleans and prevents rust.

Stk. **966001** Mfg. 10038 8 oz. drip \$ **5.12**

WD-40 Multi-purpose oil in a plastic bottle with telescoping spout for precise lubricating.

Stk. **966007** Mfg. 10034 4 oz. drip \$ **4.22**

966001



966007



White Lithium Grease

AGS All-weather, high-film strength grease guards against rust in all temperatures.

Stk. **942660** Mfg. WL-15 16 oz. \$ **5.17**



Liquid Wrench Super Lubricant

Gunk Powerful blend of quick-acting, fast-penetrating solvents that loosen rusted nuts, bolts and parts in seconds. Protects all metal surfaces from rust and corrosion.

Stk. **942951** Mfg. L2-04 4 oz. drip \$ **2.67**

Stk. **942950** Mfg. L112 11 oz. spray \$ **5.01**

Stk. **942949** Mfg. L116 16 oz. pourable can \$ **10.20**

WD-40 Spray Lubricant

WD-40 Multipurpose lubricant stops squeaks, free rusted parts and sticky mechanisms, protect metals and displace moisture, lubricate and restore smooth operation to moving parts and serve as lathe center lubricant. Flip attached straw into place for direct applications (*gal. requires Spray Applicator Bottle, sold separately*). Silicone-free and clean to use.

Stk. **966013** Mfg. 110054 8 oz. \$ **5.37**

Stk. **966014** Mfg. 10032 12 oz. \$ **6.93**

Stk. **966008** Mfg. 10010 1 gal. \$ **26.40**

Stk. **966003** Mfg. 10000 Spray Applicator Bottle \$ **5.10**



Big Blast Aerosol

WD-40 Covers large areas fast.

Stk. **966009** Mfg. 10124 18 oz. \$ **10.60**

Extra Fine Graphite Lubricant

AGS Fine dry powdered lubricant for locks, hinges, tools, bikes and more.

Stk. **942897** Mfg. MZ-5 32 grams \$ **4.58**



Slide-All Dry Spray Lubricant

Elmer's Teflon dry spray lubricant provides more slip than silicone and graphite, but without oily stains.

Stk. **257619** Mfg. E450 4 oz. \$ **4.28**

PB Blaster Penetrating Catalyst

Blaster Chemical Penetrates, lubricates, prevents rust and converts to a lubricating film after permeation. Fortified with surface oxidation and rust-proof chemistry. Starts wet ignitions and penetrates wet or icy frost. Intense wetting agent. Displaces moisture in electric relays.

Stk. **943154** Mfg. 16-PB 11 oz. \$ **6.39**



Premium Wheel Bearing Grease

Pennzoil High-performance grease providing high-temp protection and resistance to water washout. Extreme-pressure properties and high dropping point. Use for vehicles with disc brake and ABS systems. Ideal for chassis lubrication. Premium red color. Exceeds NIGI GC-LB specification.

Stk. **943202** Mfg. 7771 16 oz. \$ **7.04**

Threadlockers



Medium Strength Threadlocker Blue

Loctite Eliminates the need for stocking lock nuts and lock washers. Locks and seals while preventing parts loosening due to vibration. Protects threads from corrosion. Medium strength (60 ft./lbs.) for easy disassembly.

Stk. **504550** Mfg. 24240 36 ml. \$ **37.20**

High Strength Threadlocker Red

Loctite High-strength adhesive adds 3,400 psi of holding power on newer slip or press fit assemblies. Replaces set screws and snap rings. Requires extra effort or special tools for removal. Fills gaps to .007".

Stk. **504529** Mfg. 27100 6 ml. tube \$ **8.39**

Stk. **504556** Mfg. 27140 36 ml. bottle \$ **36.60**



AUTOMOTIVE



Gunk Heavy-duty Brake Fluid

Radiator Specialty Heavy-duty brake fluid for US and foreign cars and trucks. Meets and complies with DOT 3 Federal Standard No. 116. Exceeds Federal VV-B680 & SAE J1703 specifications.

Stk. **943051** Mfg. CT4432 32 oz. \$ **12.20**

Stk. **943052** Mfg. M4432 1 gal. \$ **45.20**

Motor Oil

Pennzoil Multi-viscosity 10W-30 motor oil.

Stk. **943053** Mfg. 3619 1 qt. \$ **8.98**



Power Steering Fluid & Stop Leak

STP Formulated to stop or reduce loss of fluid caused by leaky seals due to wear or shrinkage.

Stk. **943039** Mfg. 66046 12 oz. \$ **4.69**



Oil & Fluid Absorbent,
see page 452.

Battery Terminal Products

Battery Terminal Cleaner

Gunk Cleans corrosion from battery terminals, cables and surrounding surfaces. Neutralizes acid on and around battery terminals. Safe to use on electrical connections in next-generation and/or hybrid vehicles.

Stk. **688100** Mfg. BTC4 5 oz. **\$ 4.20**



Battery Terminal Protector

Gunk Provides a protective barrier to inhibit corrosion on battery terminals and cable connectors. Based on reliable lithium grease technology, it won't burn off like petroleum-based products and won't sag or run under the hot hood.

Stk. **688105** Mfg. BTP4 4.5 oz. **\$ 4.54**

Parts Washers & Supplies

Bench Top Parts Cleaner

Graymills Fluid is recirculated to speed clean stubborn soils and rinse small parts. Reflective spring-hinged safety cover stays open (*w/fusible link*). Holding bracket for parts cleaning brush. Solvent-resistant thermoplastic centrifugal pump recirculates 3/4 gal./min.

Sealed bearings and seals. Abrasive-resistant pump can run dry without damage. Flexible solvent-resistant Tygon flush hose.

Interior tank 15-1/2"W x 23-1/2"L x 6"D. Soaking depth 3-3/4".

Stk.	Mfg.	Volts	HP	Phase	Fluid Capacity	Price
432020	EC-A	115	—	1	3-5 gal.	\$ 259.00



Recirculating Parts Cleaner

Graymills Works with as little as 2-1/2 gal. of solvent. 3-way solvent filtration system. Sturdy construction of 16 ga. metal tank back and bottom, with 18 ga. front and sides.

Interior tank 30"L x 18"W x 8-3/4"H.

Overall size 36"L x 18"W x 53-1/2"H (*w/lid*).

Stk.	Mfg.	Volts	HP	Phase	Fluid Capacity	Price
432425	HK150-A	115	—	1	2.5-5 gal.	\$ 710.00



Handi-Kleen® PL 36

Graymills Parts are scrubbed by a hand-held brush under the flush hose, then rest on removable sloped metal shelf above fluid or may be soaked in solvent below the shelf.

16 ga. steel (*bottom & rear*), 18 ga. steel (*sides*). Basket keeps small parts in reach.

- Fusible link safety cover
- Dual filtration for clean working solution

Interior tank 29-1/2"L x 22"W x 16"D.

Overall size 36"L x 22"W x 60"H (*w/lid*).

Stk.	Mfg.	Volts	HP	Phase	Fluid Capacity	Price
432340	PL-36A	115	—	1	8.5-20 gal.	\$ 872.00



Parts Washers & Supplies, cont.

3-Way Cleaning Clean-O-Matic

Graymills Loosen dirt and grime with this free standing cold solvent parts cleaner. Pumps are designed with no bearings or seals immersed in liquid and are virtually abrasive resistant.

- Rugged construction w/14 & 16 ga. steel
- Extra long flexible metal faucet flow flush hose
- 1 heavy expanded metal work shelf & 1 solid flanged steel work shelf
- Fusible link safety is spring loaded for soft closing
- Adjustable pistol grip flush nozzle w/flexible neoprene hose
- 3-way cleaning action selector
- Washable 40 mesh screen located above liquid to filter solvent flow through hoses
- 500A's Hydro-jet manifold disperses cleansing pump flow throughout the tank, 300A has a pump discharge jet instead of manifold
- 2 removable sludge trays & drain plug for easier cleanup
- Recessed control switch
- Revolving casters



Interior tank (*approx.*) 32-1/4"L x 21"W x 23-3/4"H.

Overall size 44"L x 21-1/2"W x 58"H (*w/lid*).

Stk.	Mfg.	Volts	HP	Phase	Fluid Capacity	Price
432469	300A*	115	1/8	1	16-42 gal.	\$ 1,904.00
432536	500A**	115	1/3	1	16-42 gal.	2,182.00

* 1/10 HP centrifugal pump. Flow capacity 4.5 GPM through the flush hose.

** 1/3 HP centrifugal pump & hydro-jet manifold. Flow capacity 40 GPM through the manifold or 18 GPM through the metal hose.

Graymills Super Agitene. Safe, clear green parts cleaning fluid w/a mild fresh smell. 8 ingredients make it easy on hands, yet easily cuts grease, motor oil, machine oil, cutting oil & water soluble oils. Also cleans oil & light varnishes from engine parts where carbon deposits & baked-on varnish aren't a problem. Lanolin leaves a light coating to retard corrosion, lengthening the life of parts. Flash point 110°.

Stk. 432640	Mfg. M5005	5 gal.	\$ 175.00
Stk. 432670	Mfg. M8400	50 gal.	1,055.00

Weiler Parts Cleaning Brush. Re-

moves dirt and grease from motors, machinery and metal parts. Nylon bristles hold up under repeated use in cleaning solvents.

Stk. **969334** Mfg. 25221 **\$ 3.04**



Blasting Cabinets

Bench Top Cabinets

Cyclone Top opening polyethylene cabinet quickly removes rust, corrosion and paint from metal and parts.

- Air lock valve prevents blasting w/lid open
- Easy-to-replace .007 clear mylar view shield
- Tapered hopper for automatic abrasives recycling
- Trigger operated blast gun
- 70 watt incandescent bulb
- 1/4" dust port

Size: inside 28"W x 18"D x 11.75 to 16.75"H, overall 32.75"W x 20"D x 25.25"H.

Stk.	Mfg.	Volts	View Window	Air Requirements	Price
316546	E500	110	24" x 14"	5 cfm @ 80-90 psi	\$ 244.00



Blasting Cabinets, cont.

Bench Top Cabinets, cont.



*Sturdy Welded Steel Unit
Connects Into Your Present Air Supply*

Dee-Blast The practical answer to auto rebuilders, mold cleaners and many industrial applications. Its ideal for rust removal, decorative finishes, paint removal, mold cleaning, die cleaning, deflashing plastic parts and removing weld discolorations.

Self-contained unit will accept and recirculate most popular blast media. Internal blasting gun controls air flow.

Nozzle size 3/8" I.D. Exhaust fan 2,870 rpm. Light 100W.
Overall size 19"W x 15"D x 24"H, door 17-1/2" x 13". Weight 57 lbs.

Stk.	Mfg.	Volts	View Window	Air Requirements	Price
316639	BD019	115	7.5" x 14"	12 cfm @ 90-100 psi . . .	\$ 734.00



316644



316642

Ideal for Removing Rust, Paint & Carbon from Most Metals & Plastics

Dee-Blast Cabinets clean metals, plastics and some woods. Sealed units keep dust and contaminants from work area. Suction-type blast systems draw abrasives from the hopper and propel it to the work surface by an air blast emitted through the suction head nozzle. Dust collection system gathers broken down media and contaminants from the hopper into the filter bag.

- Trigger gun assembly • Cleans pistons, valves & other engine parts
- Removes heat scale, excess solder & weld discoloration
- Renews brushes, connectors & terminals for better electrical contact
- Refurbishes molds for metal, plastic & rubber products
- Deburrs edges on molded & machined parts

Light: (50) 2-200W, (3824) 2-100W.

Overall size: (50) 44"W x 44"D x 76"H, door 32"W x 39"H.
(3824) 38"W x 24"D x 60"H, door 20"W x 11"H.

Shipping weight: (50) 575 lbs., (3824) 165 lbs.

Stk.	Mfg.	Volts	View Window	Air Requirements	Price
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Side Door Opening Cabinet

316644	DB050	115	7.5" x 17.5"	12 cfm @ 90-100 psi . . .	\$ 3,990.00
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Top & Side Door Opening Cabinet. To easier load large pieces.

316642	DB03824*	115	7.5" x 17.5"	12 cfm @ 90-100 psi . . .	\$ 1,675.00
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* Flip top door is 36" x 11".

Floor Model Cabinets



316565



316575

Cyclone Ideal for cleaning, finishing, peening and deburring, these 18 ga. steel units feature welded seams for dust-free blasting.

- Automatic air shut-off prevents blasting while top door is open
- Welded-in glove rings provide armrest to reduce operator fatigue
- Shielded incandescent bulbs provide better light
- Canister dust collectors eliminate bag collection mess & may be detached for other uses
- Hot air circulation helps keep abrasive dry for better performance
- Cabinet fronts are slanted for better view & reduced fatigue
- Trigger gun assembly • Bead is recycled for extended use

Dust collector 1,500 DC.

Size: (3624) inside 36"W x 24"D x 24"H, overall 37-1/2"W x 25"D x 59"H.

(4224) inside 42"W x 24"D x 24"H, overall 45"W x 46"D x 60"H.

Weight: (3624) 175 lbs., (4224) 245 lbs.

Stk.	Mfg.	Volts	View Window	Air Requirements	Price
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Top Opening Cabinet

316565	3624	110	9" x 12"	14 cfm @ 90-100 psi . . .	\$ 1,020.00
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Full Top Opening Cabinet

316575	4224	110	9" x 20"	14 cfm @ 90-100 psi . . .	\$ 1,193.00
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Protect Student's Hearing from Machinery Noise
SAVE NOW! **Ear Plugs & Ear Muffs**, page 110.

Prevent equipment restarts after a power interruption.
Restart Safety Plugs,
page 369.

Blasting Cabinet Accessories

Dee-Blast

Rubber Gloves. 24" Dip-molded gloves.

Stk. 316625	Mfg. 007	\$ 69.20
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Glass Bead Abrasives. Surfaces are cleaned, deburred, decorated & "cold-worked" w/out etching or removal of basic surface material &

w/out imparting ferrous or other undesirable residues. Beads are environmentally safe & cause no toxic or erosive hazards. 50 lbs.

Stk. 316630	Mfg. 400	coarse	\$ 113.00
Stk. 316631	Mfg. 401	medium	113.00
Stk. 316632	Mfg. 402	fine	113.00
Stk. 316633	Mfg. 403	extra-fine	113.00



Pressure Washers

Electric Pressure Washer

Campbell Hausfeld Lightweight pressure washer (19 lbs.) powered by a 13 amp universal motor. Delivers more effective cleaning power than a garden hose, while using 80% less water. Instant start/stop system protects the motor and reduces noise.

Includes 20' high-pressure hose, 35' cord w/GFCI plug, adjustable fan lance & detergent cup.

Stk.	Mfg.	PSI	Gal./Min.	Price
291224	PW1605	1,600	1.4	\$ 196.00



Pressure Washers, cont.

Gas Pressure Washer

Campbell Hausfeld Powerful, reliable commercial-grade pressure washer is tough enough for any cleaning job. Honda GX160 engine powers CAT triplex pumps for professional results. Steel powder-coated frame has easy-rolling pneumatic wheels.



- Durable 25' x 3/8" high-pressure hose
- Commercial pump w/ceramic plungers & high-pressure seals
- Quick-connect fittings allow faster setup & breakdown
- Chemical tube draws soap from 1 or 5 gal. container
- Low Oil Alert System prevents engine damage
- Steel cart w/10" dia. pneumatic wheels easily moves 86 lb. unit
- Heavy-duty gun sprays patterns (0°, 15°, 25° & 40°) & dispenses soap (65° tip)
- 3-yr. mfg.'s limited warranty

Includes gun w/auxiliary handle, hose, 16" chrome lance, 5 quick-connect tips, steel cart w/2 wheels, detergent tube, on-board tool storage.

Stk.	Mfg.	PSI	Gal./Min.	Price
291225	PW2770	2,750	2.5	\$ 1,002.00



Portable Air Tank

Tailgate Tools Heavy-gauge steel tank with rust-proof baked finish. Features easy-read pressure gauge, built-in pressure bypass valve and carrying handle.

Operating pressure 125 psi. Tank capacity 10 gal.

Includes air bypass valve, pressure gauge & 4' rubber hose w/tire chuck.
Stk. **943264** Mfg. W1010 \$ 83.80

Oil-free Single-stage Air Compressors

User-friendly Design is Great for Students

Portable Air Compressor

Campbell Hausfeld For inflation, brad nailing, stapling and airbrushing. 1 gal. tank eliminates the pulsations caused by piston action. Conveniently placed, easy-read gauge for easy monitoring of air pressure. Sturdy handle allows handy transport and storage.



Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
120	—	100 psi	0.51 & 0.39	1 gal.	16 lbs.

Includes 2 inflation nozzles, needle & adapter, air chuck & 25' recoil hose.
Stk. **291141** Mfg. FP2028 \$ 117.00

1/3 HP Air Compressor

Campbell Hausfeld For inflating, brad nailing, stapling and airbrushing. User-friendly control panel provides easy monitoring of gauges. High-quality, 1-piece manifold. Cooler running motor with automatic shut-off. Sturdy retractable handle allows comfortable handling. Accessory storage bin. 1-yr. mfg.'s warranty.



Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
120	1/3	100 psi	1.0 / .7	2 gal.	20 lbs.

Includes air chuck, 2 inflation nozzles, needle adapter, inflation needle & 25' recoil hose.
Stk. **291131** Mfg. FP2048 \$ 137.00

Oil-free Single-stage Air Compressors, cont.

0.8 HP Air Compressor

PORTER+CABLE Low amp 120V motor starts easily in cold weather or with extension cord. 6 gal. pancake style tank for stability, includes water drain valve and rubber feet. Higher pressure for longer air tool performance.



- Oil-free, no maintenance pump
- 2.6 scfm @ 90 psi for fast recovery time
- Upgraded shroud, handle & console cover protect vital components
- 2 regulated air couplers for 2 users
- Hi-flo regulator

Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
120	.8	150 psi	3.5 / 2.6	6 gal.	34 lbs.

Includes 13 pc. accessory kit (25' x 1/4" PVC air hose w/coupler & plug, tire chuck w/plug, blo-gun w/plug, tire gauge, OSHA safety nozzle w/4 inflator adapters), on-board cord wrap & manual.
Stk. **636776** Mfg. C2002-WK \$ 279.00

1 HP Electric Air Compressor

Senco 4 Amp compressor with a direct-drive induction motor for finish and trim work, plus crafts. Ultra-quiet, electric operation. Lube-free. Easy-read tank and pressure gauges. Lightweight aluminum tank and soft-grip handle. 1-yr. mfg.'s warranty.



Size 14"L x 12.5"W x 10"H.

Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
110	1	125 psi	1 / 0.7	1 gal.	20 lbs.

Includes regulator, pressure gauges, 1/4" universal coupler & air filter.
Stk. **291536** Mfg. PC1010 \$ 207.00

1.7 HP Air Compressor

PORTER+CABLE Longer running 150 psi maximum with 120 psi cut-in restart pressure provide 30 psi "bonus air" before a 90 psi air tool becomes inoperable.



Tank supports heavy use of brad and finish nailers, staplers, plus moderate roofing and framing nailer use.

- 2-pole, 3,450 rpm capacitor start induction motor gives max air delivery
- Oil-free pump for oil spills/contamination & no-maintenance use
- Full-roll cage frame protects pump & motor
- 2-port removable console allows remote air regulation & higher air pressure closer to the job
- Easy-rolling pneumatic wheels

Includes two 10" dia. pneumatic wheels, air regulator, 2 gauges, 2 quick-connect couplers & manual.

Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
120	1.7	150 psi	7.1 / 5.3	4.5 gal.	85 lbs.

Stk. **636777** Mfg. C3151 \$ 457.00

5 & 5.5 HP Air Compressors



Campbell Hausfeld Maintenance free oil-free direct drive workhorse offers easy-to-operate controls with descriptive icons.

- Oversized, easy-reference gauges
- Hot moving parts covered by durable shroud
- UL listed
- Storage for couplers, plugs, tape

Mfg.	Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
WL6501	120	5	125 psi	6.5 / 5.1	13 gal.	76 lbs.
WL6502	120	5.5	125 psi	6.5 / 5.1	20 gal.	89 lbs.

Air hoses sold separately.

Stk. **291096** Mfg. WL6501 \$ 498.00
Stk. **291095** Mfg. WL6502 \$ 520.00

Oil-free Single-stage Air Compressors, cont.



Built to Last 5.5 HP Contractor Gas Air Compressor

Campbell Hausfeld Heavy-duty cast iron, oil lubricated twin cylinder pump. Powerful enough to run 2 framing nailers at the same time. Durable and safe ASME code tank for greater air storage. Briggs & Stratton Engine.

Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
gas	5.5	110 psi	10.2 / 8.4	20 gal.	164 lbs.

Air hoses sold separately.

Stk. **291204** Mfg. VT6148 \$ **1,026.00**

Oil-lubricated Air Compressors Single-stage Compressors

1.1 HP Air Compressor

DEWALT 2-Pole, 3,400 rpm direct drive, low amp induction motor with dual soft start valves. Oil-lubricated pump w/cast iron cylinder for durability. High-flow regulator increases performance. Hand-carry 4 gal. twin stack tank. Rapid recovery operating at 90 psi.



Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
120	1.1	125 psi	5.4 / 4.6	4 gal.	56.5 lbs.

Includes compressor oil.

Stk. **242870** Mfg. D55153 \$ **384.00**

1.3 HP Air Compressor

Campbell Hausfeld Low amp motor for high-quality performance with fewer tripped circuit breakers.

- Oil-lubricated pump, cast iron single cylinder
- Durable, safe ASME code tank
- Oil sight glass for visual monitoring of oil level for pump maintenance & improved performance



Mfg.	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
HL5401	1.3	125 psi	4.5 / 3.7	8 gal.	75 lbs.

Air hoses sold separately.

Stk. **291119** Mfg. HL5401 \$ **275.00**

1.5 HP Electric Air Compressor

Senco Quiet, electric oil-splash compressor for contractors and remodelers requiring durability with less weight for finish and trim work portability.



- Cast iron cylinder for superior pump life
- Electric overload protection switch w/manual reset
- Efficient direct-drive pump (3,400 rpm) & induction motor
- Cold start valve provides easy start-up in cold climates
- 13 amp unit won't trip circuit breakers
- Steel tank
- Soft-grip handle
- Cover for hot moving parts
- 1-yr. mfg.'s warranty

Size 20.5"L x 8"W x 18.5"H.

Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
115	1.5	125 psi	na / 3.5	2.5 gal.	39 lbs.

Includes 1/4" universal coupler & compressor oil. Air hoses sold separately.

Stk. **291537** Mfg. PC1130 \$ **244.00**

Oil-lubricated Air Compressors, cont.

Single-stage Compressors, cont.

2 HP Electric Air Compressor

Senco 14 Amp workhorse compressor generates 4.4 cfm powering applications from finish to framing. The oil-splash design and induction motor provide the durability demanded by professional contractors. Cast iron cylinder for long pump life.



- Efficient direct-drive pump (3,450 rpm) & induction motor
- Electric overload protection switch w/reset
- 14 amp unit won't trip circuit breakers
- Steel tanks, soft-grip handle
- Cold start valve
- 1-yr. mfg.'s warranty
- Cover for hot moving parts

Size 20"L x 14.5"W x 16.5"H.

Volts	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
115	2	125 psi	na / 4.4	4.3 gal.	60 lbs.

Includes 1/4" universal coupler & compressor oil. Air hoses sold separately.

Stk. **291538** Mfg. PC1131 \$ **339.00**

Durable, Safe, Quiet Compressors Offer Great Air Storage

4 or 6.5 HP Air Compressors

Campbell Hausfeld High air flow powers a wide variety of air tools. Heavy-duty oil lubricated, twin-cylinder cast iron pump. Steel valves for efficient operation and minimal carbon build-up.



(beside) **291205**
(below) **291206**

- ASME code tank for greater air storage
- Product life up to 5,000 hrs. (based on B-10 bearing life)
- UL listed
- Best quality in the industry

Mfg.	HP	Maximum Pressure	Air Delivery scfm @ 40/90 psi	Tank Capacity	Weight
VT6290	4	135 psi	6.5 / 5.5	20 gal.	171 lbs.
VT6275	6.5	135 psi	11.5 / 10.2	60 gal.	254 lbs.

Air hoses sold separately. Please specify voltage.

Stk. **291206** Mfg. VT6290 4 HP, 120/240V \$ **703.00**

Stk. **291205** Mfg. VT6275 6.5 HP, 240V \$ **845.00**

2-Stage Air Compressors

7.5 HP Air Compressor

Campbell Hausfeld Rugged cast iron, 2-stage pump for heavy-duty commercial/industrial applications. Delivers up to 15,000+ hrs. of pump life (per B-10 bearing rating). Certified ASME tank (to 200 psi max. pressure).



- 230V NEMA motor w/thermal overload protection
- Mounted, magnetic motor starter is pre-wired
- Stainless steel valves
- Precision-balanced flywheel
- 3-yr. mfg.'s limited warranty
- Ductile iron crankshaft
- Low pump rpm
- Oil sight glass

Mfg.	HP	Phase	Maximum Pressure	Air Delivery scfm @ 90/175 psi	Tank Capacity	Weight
CE7000	7.5	1	175 psi	23.7 / 22.2	80 gal.	540 lbs.

Stk. **291120** Mfg. CE7000 \$ **2,744.00**

Please turn the page to find
Air Compressor Accessories.

Oil-lubricated Air Compressors, cont.

2-Stage Compressors, cont.

5 HP Air Compressor

Campbell Hausfeld 5 HP, 230V, 1 phase Nema electric stationary air compressor provides up to 10,000+ hours of pump life. Cast iron 2-stage pumps constructed for heavy-duty industrial applications

- Motor starter not required, reducing installation costs
- Operates a wide range of tools w/longer run time
- 80 gal. vertical ASME certified tank is certified for 200 psi max. pressure, assuring safe operation
- Oil sight gauge provides a large amount of air storage to get large jobs done faster
- Thermal overload protection • 3 yr. mfg.'s warranty



Mfg.	HP	Phase	Maximum Pressure	Air Delivery scfm @ 90/175 psi	Tank Capacity	Weight
CE6000	5	1 psi	175 psi	14.6 / 14.1	80 gal.	476* lbs.

Stk. **291121** Mfg. CE6000 \$ **1,682.00**

* Shipping weight.

Air Compressor Accessories

Pneumatic Tool Oil

Milton Extends life & performance of air tools, lubricators, valves & cylinders. Prevents seizure of air tools & pneumatic equipment. Recommended for tools requiring 10 weight non-detergent lubricant. 5°F to 350°F working temperature.

Stk. **968495** Mfg. 1001-4..... 4 oz. flip-top bottle \$ **4.49**



Campbell Hausfeld

Use w/oil-lubricated air tools to maximize tool performance & long tool life.

Stk. **291135** Mfg. ST1270..... 8 oz. bottle \$ **3.38**

Pneumatic Tool Oiler. Attaches between tool & air hose to lubricate tool w/use. Prevents rust & prolongs tool life.

Stk. **291160** Mfg. MP2680 \$ **14.50**



Air Compressor Oil. Prolong compressor life by reducing valve carbon build-up. Use on all oil-lubricated air compressors. High-quality, 30 weight, non-detergent, single viscosity oil.

Stk. **291133** Mfg. ST1253..... 16 oz. bottle \$ **5.90**

Pressure Gauge

Milton High-quality gauge for compressors, filters, regulators, lubricators, air lines, pneumatic tools & equipment. Brass mechanism w/ABS case & 2" polycarbonate lens is resistant to heat, corrosion, water & oil. Bottom mount.

Temperature range -13°F to 120°F. 1/4" NPT. 0-160 psi.

Stk. **968510** Mfg. 1194..... \$ **14.40**



Regulators & Filters

Filter/Regulators

Devilbiss Filter prevents costly redo's by keeping water & dirt out. General purpose regulator & gauge for painting & air tool operation. 5 micron particle filter withstands high temperatures & temperature fluctuations. Quick-release bowl guard & spin off filter provides quick, 1-min. filter changes. Quick shut-off valve.

Filter 100 cfm units. 1/4" NPT male outlet. 60 cfm.

Stk. **241250** Mfg. 13-0042 .. 0-125 psi \$ **235.00**



Air Compressor Accessories, cont.

Regulators & Filters, cont.

Filter/Regulators, cont.

2-in-1 Standard Series

Campbell Hausfeld Space-saver unit combines filter & regulator. Large capacity metal bowl for high-pressure air compressors.

3/8" NPT female outlet. 2 scfm @ 90 psi.

Stk. **291145** Mfg. PA2125 0-250 psi \$ **66.50**

1/2" NPT female outlet. 2 scfm @ 90 psi.

Stk. **291146** Mfg. PA2126 0-250 psi \$ **52.50**



Milton Piggyback duo w/features of the standard regulator, plus the space-saving convenience of a combined filter.

• 6 oz. corrosion-resistant metal bowl

• 3-position knob lock/adjust/remove

• 40 micron filter element

• Automatic overnight drain

• Relieving regulator

• Non-rising adjustment

Inlet pressure 200 psi. Outlet pressure 2-125 psi.

Temperature range 40°F to 160°F.

Stk.	Mfg.	SCFM	NPT Female Inlet & Male Outlet	Price
968500	1109	50 psi	1/4"	\$ 81.20
968501	1110	80 psi	3/8"	81.60



Regulators

Speedy U.S. Government approved air regulator complete w/gauge.

1/4" NPT female inlet & two 1/4" NPT female outlets.

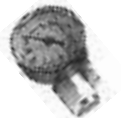
Stk. **279266** Mfg. AL820RG 0-140 psi \$ **48.30**



Campbell Hausfeld Easily attaches to any air tool for quick regulation.

1/4" NPT female outlet & 1/4" NPT male outlet.

Stk. **291155** Mfg. MP1042..... 0-160 psi \$ **10.80**



System Easily Attaches to Shop Wall Filter/Regulator/Lubricator

Campbell Hausfeld Integrated system filters, regulates & lubricates air from stationary single or 2-stage air compressors. Eliminates water & other contaminants to increase air tool life & improve spray painting results.

Special painting outlet attaches to a separate air hose to bypass the lubricator when spray painting. Automatic oil lubrication helps protect air tools from rust & friction.

48 scfm @ 100 psi. 5 micron filter element.

Includes brass quick coupler & mounting bracket.

Stk. **291138** Mfg. PA2078 0-200 psi input, 0-125 psi output \$ **105.00**

Lubricator. Protects air tools from rust & friction. Fill lubricator while under pressure eliminating the need to depressurize system. Micromist oil lubrication w/adjustable feed allows user to control oil flow.

Stk. **291140** Mfg. PA2081 28 scfm @ 100 psi \$ **53.70**

Filter. Increase tool life by reducing rust & improve your paint job by reducing water & particles in the paint. Max. input pressure is 100 psi.

Stk. **291151** Mfg. PA2121 35 scfm @ 100 psi \$ **35.70**

Regulator. Adjusts & maintains air from stationary single-stage or 2-stage air compressor. 0-300 psi input, 0-125 psi output.

Stk. **291153** Mfg. PA2123 80 scfm @ 100 psi \$ **48.50**



Pneumatic Air Tools,
see pages 475-476.

Air Compressor Accessories, cont.

Regulators & Filters, cont.

Filter

Campbell Hausfeld Desiccant dryer provides extremely dry air for applications requiring complete removal of water & water vapors. Desiccant changes color when it needs to be changed or recharged.

Outlet screen keeps particles out of tools. Oil removal filter removes 99.9% of all aerosols. Clear bowl w/metal guards for easy viewing of fluid level & impact protection. Quick-release bowl & quarter turn drain for easy maintenance.

Stk. **291142** Mfg. PA2085 0-125 psi **\$ 173.00**



Blo-Guns

Binks Model 190. For dusting, drying, removing chips, etc. Pistol grip style handle w/aluminum die-cast body. Nozzle complies w/Walsh-Healy Alt & OSHA when air inlet doesn't exceed 100 psi.

3-1/2 cfm @ 50 psi. 1/16" orifice. 1/4" NPT male inlet.
Stk. **242082** Mfg. 190 **\$ 80.60**



Milton Safety Button Blo-Gun. Streamlined to comfortably fit in the users hand.

11.4 cfm @ 100 psi. 1/4" NPT female inlet. Nozzle thread 5/16" - 24.
Stk. **968268** Mfg. 107 **\$ 8.24**



Milton Full-flow Safety Lever Blo-Gun.

Precision made instrument w/hundreds of automotive & industrial uses.

10.0 cfm @ 100 psi. 1/4" NPT female inlet. Nozzle thread 1/2" - 27.
Stk. **968335** Mfg. 150 **\$ 12.10**



Milton Safety Blo-Guns.

Special internal design allows maximum discharge of 30 psi while maintaining required noise level & nozzle pressure w/inlet pressure of 150 psi. Extensions have a special angle for cleaning out deep blind holes. Great for long-reach applications. 1/2" O.D. heavy-duty brass tubing extension.

4.5 cfm @ 100 psi. 1/4" NPT female inlet. Nozzle thread 7/16" - 27.
Stk. **968293** Mfg. 133 10" extension **\$ 20.30**
Stk. **968294** Mfg. 134 15" extension **22.60**



Milton Safety Lever Blo-Gun. Heavy-duty construction w/extra large side hang-up hook. Maximum inlet pressure is 150 psi. 30 max. psi. nozzle pressure.

10.6 cfm @ 100 psi. 1/4" NPT female inlet. Nozzle thread 1/8" - 27.
Stk. **968280** Mfg. 120 **\$ 12.80**



Milton Compact Safety Lever Blo-Gun.

Compact, versatile blo-gun w/safety nozzle & rubber-tip nozzle. Hang-up hook for easy storage. Zinc die-cast body. OSHA compliant w/safety tip only. 150 psi.

11.7 scfm @ 100 psi (safety tip), 12.9 scfm @ 100 psi (rubber tip). 1/4" NPT female inlet. Nozzle thread 1/8" - 27.
Stk. **968330** Mfg. S-148 **\$ 8.76**



Blo-Guns, cont.

Milton Pistol Grip Blo-Gun. Positive control, easy-to-use gun. Precision-made gun w/automotive & industrial uses. max. 175 psi.

10.0 cfm @ 100 psi. 1/4" NPT female inlet. Nozzle thread 1/8" - 27.
Stk. **968337** Mfg. S-160 **\$ 19.20**



Milton Deluxe Multi-purpose Blo-Gun.

4-in-1 gun w/adjustable trigger for precise air control. Ideal for sandblasting, spraying, cleaning, liquid transfer & air broom drying. Handle storage for unused nozzles. max. 175 psi.

10.6 to 11.4 cfm @ 100 psi. 1/4" NPT female inlet. Nozzle thread 1/8" - 27.
Includes four 1/8" NPS nozzles (sandblast siphon, multi-purpose, standard & high-volume safety nozzles).
Stk. **968339** Mfg. S-165 **\$ 35.50**



Milton Comfort Grip Blo-Gun. Adjustable air flow regulator allows variable air volume. Rubber-tip nozzle w/4" extension won't mar surfaces. Hang-up hook. Plastic body, brass inlet 110 psi.

13 scfm @ 90 psi. 1/4" NPT female inlet.
Stk. **968343** Mfg. S-174 **\$ 14.90**



Air & Fluid Hoses

Binks Oil-resistant Air & Fluid Hoses. For industrial installations & paint spray equipment where resistance to entrained oil & external oil contamination is essential. Also recommended as a fluid hose for water based materials. Tube: Nitrile rubber (Buna-N). Carcass: High tensile rayon braid reinforcement. Jacket: Neoprene, red, smooth. Connections: reusable - plated brass.

Air hoses w/250 psi. 1/4 female NPT both ends.
Stk. **240900** Mfg. 71-1105 1/4" x 25' **\$ 67.60**
Stk. **240901** Mfg. 71-1106 1/4" x 50' **111.00**
Stk. **240920** Mfg. 71-1355 3/8" x 25' **\$ 75.70**
Stk. **240921** Mfg. 71-1356 3/8" x 50' **142.00**



Milton Red Deluxe Air Hoses. 2 braid, 4 spiral, heavy-duty construction.

Air hoses w/250 psi. 1/4" male NPT both ends.
Stk. **968480** Mfg. 1630 1/4" x 25' **\$ 32.60**
Stk. **968481** Mfg. 1631 1/4" x 50' **60.00**
Stk. **968484** Mfg. 1634 3/8" x 25' **\$ 43.50**
Stk. **968485** Mfg. 1635 3/8" x 50' **78.60**



Air hoses w/250 psi. 3/8" male NPT both ends.

Stk. **968482** Mfg. 1632 3/8" x 25' **\$ 43.20**
Stk. **968483** Mfg. 1633 3/8" x 50' **80.00**

Milton Blue PVC Air Hoses. Lighter in weight than standard air hoses. Use w/compressed air, water & mild chemicals. Hose is oil & gasoline resistant.

Air hoses w/250 psi. 1/4" male NPT both ends.
Stk. **968537** Mfg. 1640 1/4" x 25' **\$ 23.80**
Stk. **968538** Mfg. 1641 1/4" x 50' **38.50**
Stk. **968539** Mfg. 1642 3/8" x 25' **\$ 27.10**
Stk. **968540** Mfg. 1643 3/8" x 50' **42.90**



Air hoses w/250 psi. 3/8" male NPT both ends.

Stk. **968541** Mfg. 1644 3/8" x 25' **\$ 27.30**
Stk. **968542** Mfg. 1645 3/8" x 50' **43.10**

Receive quantity savings on
Safety Glasses & Goggles, pages 103-106.

Air Compressor Accessories, cont.

Air & Fluid Hoses, cont.

Milton Nylon Swivel-end Recoil Air Hoses. Yellow hoses have spring guards & reusable fittings. Resists oil, grease, corrosion & abrasion. Full-swivel fitting on both ends. For all air-operated equipment.



Air hoses w/200 psi. 1/4" male NPT both ends.

Stk. 968543	Mfg. 1667	1/4" x 12'	\$ 16.30
Stk. 968544	Mfg. 1669	1/4" x 25'	21.00
Stk. 968545	Mfg. 1670	1/4" x 50'	37.50
Stk. 968554	Mfg. 1674-4	3/8" x 25'	\$ 40.80
Stk. 968556	Mfg. 1675-4	3/8" x 50'	65.40

Air hoses w/200 psi. 3/8" male NPT both ends.

Stk. 968553	Mfg. 1674	3/8" x 25'	\$ 40.60
Stk. 968555	Mfg. 1675	3/8" x 50'	65.00

Milton Polyurethane Swivel-end Recoil Air Hoses. Yellow hoses w/18" straight hose whip. Resists oil, grease, corrosion & abrasion. Kink resistant & super flexible. For pneumatic tools. Swivel fittings on both ends. -40°F to 100°F temperature rating.



Air hoses w/120 psi. 1/4" male NPT both ends.

Stk. 968546	Mfg. 1671-10	1/4" x 10'	\$ 31.30
Stk. 968547	Mfg. 1671-20	1/4" x 20'	39.40
Stk. 968548	Mfg. 1671-30	1/4" x 30'	78.30

Milton Swivel-end Snubber Hoses. Absorbs shock to couplers from impact tools &/or air hammers. Fitted w/1 steel swivel end for easier use & greater flexibility.



Air hoses w/200 psi. 800 lb. burst strength. 1/4" NPT male 360° swivel end & female 1/4" NPT brass fitting end.

Stk. 968380	Mfg. S-680	1/4" x 30"	\$ 15.20
Stk. 968381	Mfg. S-680-1	1/4" x 5'	19.90
Stk. 968382	Mfg. S-680-2	3/8" x 30"	\$ 15.70
Stk. 968383	Mfg. S-680-3	3/8" x 5'	22.40



Hoses with Reels

Hosetract Use reels where air, water or oil hose is stored, whether inside or out. Self-locking fasteners avoid loosening when vibration is present. Heavy-gauge, cold-rolled metal reels are permanently lubricated for years of service.

- All-brass shaft & swivel on low pressure reels
- Use Low Pressure Series w/shorter, low volume hoses
- Fully-closed latch mechanism to prevent grime build-up

Low Pressure B Series Reels. Use for air, water & anti-freeze. Hoses are 300 psi with 1/4" male NPT both ends.

Stk. 476100	Mfg. LB-225	1/4" x 25'	\$ 215.00
Stk. 476102	Mfg. LB-250	1/4" x 50'	282.00

Low Pressure C Series Reel. Ideal for air, water & light oils. Hoses are 300 psi with 1/4" male NPT outlet & 1/2" female NPT inlet.

Stk. 476104	Mfg. LC-350	3/8" x 50'	\$ 337.00
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Inlet Hose Assemblies. Use between hose reel & permanent plumbing, especially where vibration is present. 24"L. Use w/300 psi hose.

Stk.	Mfg.	For Hose Models	Fittings (NPT)	Price
476110	HA-L302	LB-225, LB-250	3/8" x 3/8"	\$ 25.00
476112	HA-L502	LC-350	1/2" x 1/2"	26.20

Side Winder Hose Reel

shown w/hose, sold separately

Lisle 10" dia. reel prevents tight air hose coils. Constant air supply 1/4" NPT brass swivel keeps air flowing freely & handles up to 250 psi even when dispensing or winding air hose. Coil spring brake keeps reel from unrolling, yet allows easy dispensing of hose.



All-steel construction w/durable powder baked paint finish. 2 built-in tool hangers keep other air tools handy. Fasten reel in any direction (*from ceiling, on or under bench, or on wall, compressor, etc.*). 6-hole pattern base for bench mount & center line pattern for stud wall mount.

Reel holds 150' of 5/8" O.D. hose or 100' of 3/4" O.D. hose. Supplies 28 cfm at 90 psi. Overall size 17-3/4" dia. x 11"W x 19"H.
Stk. **503745** Mfg. 50350... **\$ 98.30**

Couplers & Plugs

Milton Couplers & plugs for all air-operated equipment (*Blo-Guns, tire inflators, paint sprayers, air hammers & drills, greasing equipment, oil sprayers*).

M-style Industrial Series Kwik-Change Couplers & Plugs

- Interchangeable w/all mfr.'s complying w/Military Specification MIL-C-4109
- Couplers & plugs can be used together regardless of thread size
- Case-hardened steel plugs are plated to resist rust
- Brass coupler bodies w/brass sleeves

Max. inlet pressure 300 psi. Air flow 400 scfm.



Couplers. Use only w/shop air.

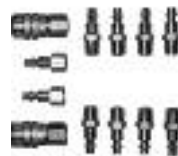
Stk. 968469	Mfg. 715	1/4" NPT female	\$ 5.21
Stk. 968470	Mfg. 716	1/4" NPT male	5.21
Stk. 968472	Mfg. 718	3/8" NPT female	\$ 6.85
Stk. 968473	Mfg. 719	3/8" NPT male	6.85

Plugs

Stk. 968536	Mfg. 727	1/4" NPT male	\$ 1.27
Stk. 968603	Mfg. 728	1/4" NPT female	1.34
Stk. 968474	Mfg. 732	3/8" NPT female	\$ 2.24
Stk. 968475	Mfg. 733	3/8" NPT male	2.24

7-Piece Coupler/Plug Kit (M-style 1/4" NPT). Includes female coupler & 6 plugs (3 female, 3 male).

Stk. **968350** Mfg. S-212... **\$ 12.50**



12-Piece Coupler/Plug Kit (M-style 1/4" NPT). Includes 2 female couplers & 10 plugs (2 female, 8 male).

Stk. **968345** Mfg. S-210... **\$ 22.40**

Prevent Accidental Disconnects

968745

Milton M-style Push-button Safety Couplers.

Double click to engage properly (*first click locks coupler & plug, second click engages air pressure*). To disconnect, push button 2x (*first push relieves pressure, second push allows plug & coupler to disengage*).

Stk. 968745	Mfg. S-99705	1/4" NPT female	\$ 14.00
Stk. 968746	Mfg. S-99706	1/4" NPT male	14.00

5-Piece Coupler/Plug Kit (M-style 1/4" NPT). Includes safety coupler, female coupler & 3 male plugs.

Stk. **968355** Mfg. S-219... **\$ 19.30**



Air Compressor Accessories, cont.

Couplers & Plugs, cont.

Milton, cont. Couplers & plugs for all air-operated equipment (Blo-Guns, tire inflators, paint sprayers, air hammers & drills, greasing equipment, oil sprayers).

L-style Lincoln Series Kwik-Change Couplers & Plugs

- Push-type couplers engage automatically
- Couplers & plugs can be used together regardless of thread size
- Plated-steel couplers & case-hardened, plated steel plugs resist rust

Max. inlet pressure 300 psi. Air flow 32 scfm.



Couplers. Use only w/shop air.

Stk. **968476** Mfg. 790 1/4" NPT female **\$ 9.87**
 Stk. **968479** Mfg. 794 1/4" NPT male **10.80**

Plugs

Stk. **968477** Mfg. 791 1/4" NPT male **\$ 1.92**
 Stk. **968478** Mfg. 792 1/4" NPT female **2.03**

H-style Interchange Series Couplers & Plugs

- Push-type coupler engages automatically
- Max. temp. 250°F • UL listed • Seals Buna-N
- Case-hardened, steel-plated plugs & couplers resist rust
- Use same style couplers & plugs together regardless of thread size

Max. inlet pressure 300 psi. Air flow 67 scfm.

Couplers. Use only w/shop air.

Stk. **968570** Mfg. 1835 3/8" NPT female **\$ 11.30**
 Stk. **968571** Mfg. 1836 3/8" NPT male **11.30**

Plugs

Stk. **968573** Mfg. 1838 3/8" NPT female, 2/pkg. **\$ 2.26**
 Stk. **968572** Mfg. 1837 3/8" NPT male, 2/pkg. **2.17**

Air Line Accessories

Campbell Hausfeld 17-Piece Air Tool & Accessory Kit (M-style 1/4" NPT). Start-up kit for any air compressor. Blo-gun quickly removes debris or use w/needles & nozzles for inflation. Quick-connects allow easy interchange of tools.

Includes blo-gun, safety nozzle, tapered inflation nozzle, inflator adapter, 2 inflations needle, dual foot air chuck, tire gauge, 6 plugs (2 female, 4 male) & 3 couplers (female, 2 male).

Stk. **291156** Mfg. MP2847 **\$ 17.00**



Milton

Hose End. Full 360° swivel hose end helps eliminate kinked, twisted air lines. Higher cfm than other swivel hose ends. Steel w/black oxide finish.

Stk. **968375** Mfg. 659 1/4" NPT female x 1/4" NPT male **\$ 8.11**



Hex Nipple. Brass male fitting couples air hose to air tools.

Stk. **968390** Mfg. S-648 .. 1/4" NPT male x 1/4" NPS ball socket **\$ 3.07**



Air Chuck. Female single head chuck.

Stk. **968402** Mfg. 699 1/4" NPT female **\$ 2.51**



3-in-1 Air Manifold. Supply 3 air tools from 1 inlet. No need to disconnect & connect for each tool change. Sturdy, lightweight aluminum body. 3/8" NPT female inlet x three 1/4" NPT female outlets.

Stk. **968384** Mfg. S-685-6 **\$ 11.90**



Air Line Accessories, cont.

5-Piece Manifold Kit. Includes manifold (1/4" NPT male inlet x three 1/4" NPT male outlets), 3 M-style male couplers & male plug.

Stk. **968356** Mfg. S-221 **\$ 27.60**



Pneumatic Air Tools



Air Reciprocating Saw

Campbell Hausfeld Power through up to 16 ga. steel with this 10,000 spm saw. Cuts plastic, aluminum, fiberglass and sheet metal on flat and curved surfaces.

- Safety latch prevents accidental starts
 - 2-yr. mfg.'s limited warranty
- Sound pressure 88 dBA. Tool size 11" L. Tool weight 1.4 lbs.

Stk.	Mfg.	SPM	Air Requirement	Air Inlet	Min. Hose	Price
291270	PL1540	10,000	1.5 cfm @ 90 psi	1/4" NPT	1/4" ID @ 25' L	\$ 95.50

Reciprocating Saw Blades. 3 fine (32 tpi) & 2 coarse (24 tpi).

Stk. **291148** Mfg. PA1002 5/pkg. **\$ 9.58**

Air Cut-off Tool

Campbell Hausfeld 3/4 HP, 25,000 rpm motor produces the speed and power for quickly cutting through up to 1" dia. steel rods, brackets, clamps, frame rails, sheet metal and angle iron.



- Soft-grip handle for increased comfort
- Built-in power regulator controls speed for detailed cutting
- Uses 3" reinforced cutting discs
- 3-yr. mfg.'s limited warranty

Sound pressure 95 dBA. Tool size 11" L x 4-1/2" W x 6" H. Weight 2.76 lbs.

Includes 3" cutting wheel, guards & safety catches.

Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291300	PL2535	25,000	11.5 cfm @ 90 psi	1/4" NPT	3/8" ID @ 25' L	\$ 68.30

3" Cut-off Wheels. Aluminum & fiberglass wheel has 3/8" center hole.

Stk. **291157** Mfg. MP2879 5/pkg. **\$ 3.95**

Air Sanders



5" Random Orbit Sander

Campbell Hausfeld Ideal for sanding wood, body filler, fiberglass, metal and other surfaces. Non-vacuum unit offers swirl-free, fine-finish results. 3-yr. mfg.'s limited warranty.

5" abrasive disc. Sound pressure 82 dBA.

Tool size 4.25" L x 8.25" W x 5.25" H. Tool weight 2.5 lbs.

Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291295	PL1565	10,000	11.6 cfm @ 90 psi	1/4-1/8" NPT	3/8" ID @ 25' L	\$ 193.00

6" Dual Action Sanders

Campbell Hausfeld Ideal for sanding body putty and fillers in auto refinishing and fiberglass work. Built-in power regulator for speed control.

6" abrasive disc. Sound pressure 94.5 dBA.

Tool weight 4.3 lbs.

Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291254	PL1504	10,000	13 cfm @ 90 psi	1/4" NPT	3/8" ID	\$ 87.30



Pneumatic Air Tools, cont.

Air Drills



3/8" Reversible Drill

Campbell Hausfeld Designed for drilling, honing, reaming, hole sawing, wire brushing and other heavy-duty applications.

- Handle exhaust directs air away from user & work surface

3/8" chuck. Sound pressure 88 dBA. Tool weight 2.7 lbs.

Includes 3/8" keyless chuck.

Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291275	PL1545	2,200	9.2 cfm @ 90 psi	1/4" NPT	3/8"ID	\$ 60.40

3/8" Angle Drills

Campbell Hausfeld 90° angle head design allows angle drill to be used in confined areas.

- Variable speed throttle
- Full cage gear reduction

3/8" chuck. Sound pressure 94.5 dBA. Tool weight 2.1 lbs.

Includes 3/8" Jacobs chuck & key.



Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291274	PL1544	1,800	5.9 cfm @ 90 psi	1/4" NPT	3/8"ID	\$ 54.10

Campbell Hausfeld Double gear reduction produces the low rpm needed with larger drill bits and provides higher torque at drill bit.

- Quick reverse lever to remove screws & jammed drill bits
- Planetary gear reduction balances load on bearings & gears to increase tool life
- Extra support handle for control

1/2" chuck. Sound pressure 89 dBA. Tool weight 3.5 lbs.

Includes 3/8" Jacobs chuck & key.



Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291278	PL1546	500	10.7 cfm @ 90 psi	1/4" NPT	3/8"ID	\$ 126.00

Air Angle Grinder

Campbell Hausfeld For heavy-duty jobs including cleaning, deburring and grinding operations. Attachable handle for support. Lever throttle for positive speed control and safe operation.

Sound pressure 87.5 dBA. Tool weight 4.25 lbs

Includes 5" grinding wheel & adapter for 4" & 4-1/2" wheel.



Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291290	PL1555	11,000	11 cfm @ 90 psi	1/4" NPT	3/8"ID	\$ 138.00

Air Impact Wrench

Campbell Hausfeld Heavy-duty 1/2" square drive impact wrench for automotive, farm and light truck work.

- Powerful pin-clutch design provides the ultimate torque to get the job done

380 ft./lbs. torque. Shank anvil 9/16". Sound pressure 92 dBA. Tool weight 7 lbs.



Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291252	PL1502	1,000	5.1 cfm @ 90 psi	1/4" NPT	3/8"ID	\$ 109.00

Air Ratchet Wrench

Campbell Hausfeld 3/8" square drive ratchets combines speed and power for auto repair.

55 ft./lbs. torque. Tool weight 2.8 lbs.



Stk.	Mfg.	RPM	Air Requirement	Air Inlet	Min. Hose	Price
291250	PL1501	—	4.8 cfm @ 90 psi	1/4" NPT	3/8"ID	\$ 53.10

Air Hammer

Campbell Hausfeld 2-5/8" Stroke provides extra power for panel and other cutting needs. Cuts, chips and scrapes most materials, and is used for light-duty automotive exhaust removal and front-end work, plus masonry.

- 400 ft.-lbs. torque
- 0.401" dia. shank (*parker type*)
- 2-yr. mfg.'s limited warranty
- Built-in power regulator controls speed for delicate work
- Soft-grip handle increases comfort during continuous use

Sound pressure n/a. Tool weight 4.4 lbs.



Stk.	Mfg.	BPM	Air Requirement	Air Inlet	Min. Hose	Price
291264	PL1534	3,500	11 cfm @ 90 psi	1/4" NPT	3/8"ID @ 25' L	\$ 46.90

Sockets & Supplies

Torque Socket Wrenches

Ratcheting Micrometer Adjustable Torque Wrenches

Blackhawk Preselected micrometer scale torque values. When exact torque level is reached, wrench releases with an audible click. Resists automatically returning to same torque setting. Ball bearing-mounted release eliminates accuracy variations between slow/fast loading. Color-coded English/metric markings. Positive-lock mechanism helps prevent accidental changes in torque values. Ergonomic comfort grip.



Stk.	Mfg.	Drive	Capacity	Increments	Length	Price
904570	39825-A	3/8"	20-250 in./lb.	1 in./lb.	13.4"....	\$ 165.00
904571	49859-A	1/2"	20-150 in./lb.	1 in./lb.	20.8"....	180.00

1/4" Sockets

Socket Holders

Lisle Magnetic. Organizes 1/4" fractional & metric sockets. 26-socket compartmented holder secures 1/4" standard & deep sockets. Holds sockets up to 5/8" or 15 mm. Holders leave sockets exposed for easy identification. Powerful magnets securely hold sockets in tray, & tray to any steel surface. Made of strong ABS plastic. Red.



Stk. 503940 Mfg. 40120..... \$ 19.10

Proto

Stk. 910030	Mfg. 2570	10 clips	\$ 2.29
Stk. 910031	Mfg. 2571	16 clips	4.29



Handy Storage Cabinets
Mobile, Hanging, Bin & Shelved. Pages 59-75.

Sockets & Supplies, cont.

1/4" Sockets, cont.

Stk.	Mfg.	Item	Length	Price
GEARWRENCH				
433357	81127	adapter, 1/4" F x 3/8" M	1-1/8"	\$ 6.96
433000	80100	universal joint	1-11/32"	10.40
433350	81101	extension	2"	4.06
433355	81113	extension	3"	4.60
433356	81116	extension	6"	5.21
433321	81012	flex head ratchet	5"	25.00
433358	81128	spinner handle	6"	6.62
433320	81011	teardrop ratchet	5-1/8"	20.90

Sockets

Stk.	Mfg.	Item	Length	Price
GEARWRENCH 6-Point Standard Sockets				
433005	80105	3/16"	\$ 2.75	
433006	80106	7/32"	2.75	
433007	80107	1/4"	2.75	
433008	80108	9/32"	2.75	
433009	80109	5/16"	2.75	
433010	80110	11/32"	2.75	
433011	80111	3/8"	2.75	
433012	80112	7/16"	2.75	
433013	80113	1/2"	2.75	
GEARWRENCH 6-Point Deep Sockets				
433017	80117	1/4"	\$ 4.08	
433018	80118	9/32"	4.08	
433019	80119	5/16"	4.08	
433020	80120	11/32"	4.08	
433021	80121	3/8"	4.08	
433022	80122	7/16"	4.08	
433023	80123	1/2"	4.08	

Fractional Socket Sets

6-Point Standard Fractional Set

GEARWRENCH Includes 10 sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" & 9/16", plus storage rail.

Stk. 433042 Mfg. 80303 10-piece set \$ 18.70



6-Point Standard Fractional Set

GEARWRENCH Includes

- 9 sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" & 1/2",
- plus 2 extensions (2" & 6"), 2 handles (spinner & ratchet) & case.

Stk. 433050 Mfg. 80324 13-piece set \$ 33.10



6- & 12-Point Standard & Deep Fractional Socket Set

GEARWRENCH Includes

- nine 6-point deep sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" & 1/2"
- nine 12-point standard sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" & 1/2"
- plus 2 extensions (2" & 6"), 2 handles (spinner & ratchet) & molded case

Stk. 433049 Mfg. 80325 22-piece set \$ 37.50



Fractional Socket Sets, cont.

6- & 8-Point Standard & Deep Fractional Set

Proto Includes

- ten 6-point standard sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" & 9/16"
- ten 6-point deep sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" & 9/16"
- three 8-point standard sockets 1/4", 5/16" & 3/8"
- 2 Phillips socket screwdrivers #s 1 & 2
- 3 standard socket screwdrivers 3/8", 3/16" & 1/4"
- plus 1 ratchet, 2", 3" & 6" extensions, 6" flexible extension, #1 hinge handle, 6-1/8" socket driver, universal joint, sliding T-bar & metal tool box

Stk. 939400 Mfg. 47120 37-piece set \$ 443.00



Metric Socket Sets

12-Point Standard Metric Set

GEARWRENCH Includes 13 sockets 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 & 15mm, plus storage rail.

Stk. 433044 Mfg. 80306 13-piece set \$ 23.70

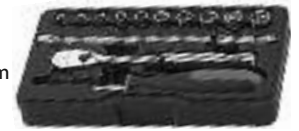


6-Point Standard Metric Set

GEARWRENCH Includes

- 10 sockets 4, 5, 6, 7, 8, 9, 10, 11, 12 & 13mm
- plus 2 extensions (2" & 6"), 2 handles (spinner & ratchet) & case.

Stk. 433051 Mfg. 80326 14-piece set \$ 32.60



6- & 12-Point Standard & Deep Metric Set

GEARWRENCH Includes

- nine 6-point deep sockets 6, 7, 8, 9, 10, 11, 12, 13 & 14mm
- nine 12-point standard sockets 4, 5, 6, 7, 8, 9, 10, 11 & 12mm
- plus 2 extensions (2" & 6"), 2 handles (spinner & ratchet) & case.

Stk. 433052 Mfg. 80327 22-piece set \$ 41.20



6-Point Standard & Deep Metric Set

Great Neck Includes 24 standard & deep sockets 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13 & 14mm, plus tiered molded case.

Stk. 281181 Mfg. 18622 24-piece set \$ 19.40



Fractional & Metric Socket Sets

6- & 12-Point Standard & Deep Fractional & Metric Set

Blackhawk Includes

- six 6-point deep sockets 1/4", 9/32", 5/16", 11/32", 3/8" & 7/16"
- three 6-point standard sockets 4, 5 & 6mm
- nine 12-point standard sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" & 1/2"
- seven 12-point standard sockets 7, 8, 9, 10, 11, 12 & 13mm
- plus reversible ratchet, 3" extension & molded case

Stk. 904245 Mfg. 1427 27-piece set \$ 87.00



6- & 12-Point Standard & Deep, Fractional & Metric Set

GEARWRENCH Includes

- 10 ea. 12-point standard & deep fractional sockets 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"
- 7 ea. 12-point standard & 7 deep metric sockets 4, 5, 5.5, 6, 7, 8, 9mm
- Six 12-point metric sockets 10, 11, 12, 13, 14, & 15mm
- Six 6-point deep metric sockets 10, 11, 12, 13, 14, & 15mm
- plus 2 extensions (2" & 6"), 2 ratchets (thumbwheel & handle), universal joint & case

Stk. 433040 Mfg. 80301 51-piece set \$ 113.00



Sockets & Supplies, cont.

3/8" Sockets

Socket Holders

Proto



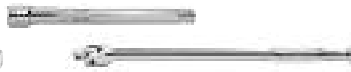
Stk. 910032	Mfg. 2572	10 clips	\$ 2.67
Stk. 910033	Mfg. 2573	16 clips	4.29

Lisle Magnetic. Organizes 3/8" fractional & metric sockets. 28-socket compartmented holder secures 3/8" standard & deep sockets. Holds sockets up to 1" or 24 mm. Holders leave sockets exposed for easy ID. Powerful magnets secure sockets in tray, & tray to any steel surface. Made of strong ABS plastic. Fits most 3/8" sets. Red.
Stk. **503941** Mfg. 40200. **\$ 24.10**



Handles & Attachments

433393



Stk.	Mfg.	Item	Length	Price
GEARWRENCH				
433400	81277	adapter, 3/8" F x 1/4" M	—	\$ 4.63
433401	81278	adapter, 3/8" F x 1/2" M	1-5/16"	5.48
433130	80549	universal joint	1-7/8"	13.70
433391	81240	extension	1-1/2"	5.33
433392	81241	extension	3"	6.55
433393	81242	extension	6"	8.35
433394	81244	extension	12"	9.65
433380	81209	stubby ratchet	4-3/4"	32.40
433386	81221	flex handle	12"	22.40
433384	81215	flex head ratchet	13"	45.60
433381	81211	teardrop ratchet	8-3/8"	38.10

Pony

Stk. 192419	07-020	reversing ratchet	8"	\$ 11.60
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Speeder Handle

GEARWRENCH Provides improved access to hard-to-reach places. Durable high-polish finish.



Stk. 433390	Mfg. 81239	16" L	\$ 16.30
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Sockets

GEARWRENCH Spark Plug Sockets

Stk. 433105	Mfg. 80402	5/8"	\$ 5.43
Stk. 433106	Mfg. 80403	13/16"	5.43



GEARWRENCH 6-Pt. Standard Fractional Sockets

Stk. 433060	Mfg. 80350	1/4"	\$ 3.75
Stk. 433061	Mfg. 80351	5/16"	3.78
Stk. 433062	Mfg. 80352	3/8"	3.85
Stk. 433063	Mfg. 80353	7/16"	3.88
Stk. 433064	Mfg. 80354	1/2"	3.95
Stk. 433065	Mfg. 80355	9/16"	4.05
Stk. 433066	Mfg. 80356	5/8"	4.08
Stk. 433067	Mfg. 80357	11/16"	4.08
Stk. 433068	Mfg. 80358	3/4"	4.08
Stk. 433069	Mfg. 80359	13/16"	4.08
Stk. 433070	Mfg. 80360	7/8"	4.08

Allen Wrench Sets

Pages 482-483.

Sockets, cont.

GEARWRENCH 6-Point Deep Fractional Sockets

Stk. 433072	Mfg. 80365	3/8"	\$ 5.25
Stk. 433073	Mfg. 80366	7/16"	5.25
Stk. 433074	Mfg. 80367	1/2"	5.25
Stk. 433075	Mfg. 80368	9/16"	5.48
Stk. 433076	Mfg. 80369	5/8"	5.48
Stk. 433077	Mfg. 80370	11/16"	5.48
Stk. 433078	Mfg. 80371	3/4"	6.15
Stk. 433079	Mfg. 80372	13/16"	6.15
Stk. 433080	Mfg. 80373	7/8"	6.15

GEARWRENCH 6-Point Standard Metric Sockets

Stk. 433071	Mfg. 80375	7mm	\$ 3.88
Stk. 433081	Mfg. 80376	8mm	3.88
Stk. 433082	Mfg. 80377	9mm	3.95
Stk. 433083	Mfg. 80378	10mm	3.98
Stk. 433084	Mfg. 80379	11mm	3.98
Stk. 433085	Mfg. 80380	12mm	4.05
Stk. 433086	Mfg. 80381	13mm	4.05
Stk. 433087	Mfg. 80382	14mm	4.05
Stk. 433088	Mfg. 80383	15mm	4.05
Stk. 433089	Mfg. 80384	16mm	4.05
Stk. 433090	Mfg. 80385	17mm	4.08
Stk. 433091	Mfg. 80386	18mm	4.08
Stk. 433092	Mfg. 80387	19mm	4.08

GEARWRENCH 6-Point Deep Metric Sockets

Stk. 433095	Mfg. 80392	10mm	\$ 5.35
Stk. 433096	Mfg. 80393	11mm	5.35
Stk. 433097	Mfg. 80394	12mm	5.35
Stk. 433098	Mfg. 80395	13mm	5.35
Stk. 433099	Mfg. 80396	14mm	5.48
Stk. 433100	Mfg. 80397	15mm	5.63
Stk. 433101	Mfg. 80398	16mm	5.63
Stk. 433102	Mfg. 80399	17mm	5.63
Stk. 433103	Mfg. 80400	18mm	6.05
Stk. 433104	Mfg. 80401	19mm	6.43

Fractional Socket Sets

12-Point Deep Fractional Set

GEARWRENCH Includes 11 sockets 1/4", 5/16", 3/8", 1/4", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" & 7/8", plus storage rail.



Stk. 433136	Mfg. 80555	11-piece set	\$ 41.80
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6-Point Standard Fractional Set

GEARWRENCH Includes 9 sockets 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16" & 7/8", plus 2 extensions (3" & 6"), ratchet handle & case.



Stk. 433137	Mfg. 80556	12-piece set	\$ 44.60
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6-Point Standard Fractional Set

GEARWRENCH Includes 13 sockets 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" & 1", plus storage rail.



Stk. 433134	Mfg. 80553	13-piece set	\$ 35.60
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12-Point Standard Fractional Set

GEARWRENCH Includes 13 sockets 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" & 1", plus storage rail.



Stk. 433141	Mfg. 80561	13-piece set	\$ 35.60
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Sockets & Supplies, cont.

3/8" Sockets, cont.

Fractional Socket Sets, cont.

6- & 12-Point Standard & Deep Fractional Set

GEARWRENCH Includes

- 7/16" six-point standard socket
- eight 6-point deep sockets 3/8", 1/4", 1/2", 9/16", 5/8", 11/16", 3/4" & 7/8"
- nine 12-point standard sockets 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16" & 3/4"
- **plus** 2 extensions (3" & 6"), ratchet handle & case

Stk. **433138** Mfg. 80557 21-piece set **\$ 63.50**



Metric Socket Sets

6-Point Standard Metric Set

GEARWRENCH Includes 14

- sockets 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, **plus** storage rail.

Stk. **433133** Mfg. 80552 14-piece set **\$ 38.40**



6-Point Deep Metric Set

GEARWRENCH Includes 14 sockets

- 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm, **plus** storage rail.

Stk. **433135** Mfg. 80554 14-piece set **\$ 53.20**



6- & 12-Point Standard & Deep Metric Set

GEARWRENCH Includes

- two 6-point standard sockets 13 & 14mm
- seven 6-point deep sockets 10, 11, 12, 15, 16, 17 & 18mm
- eleven 12-point standard sockets 8, 9, 10, 11, 12, 13, 14, 16, 17, 18 & 19mm
- 15mm 12-point deep socket
- **plus** 2 extensions (3" & 6"), ratchet handle & case

Stk. **433139** Mfg. 80559 24-piece set **\$ 60.60**



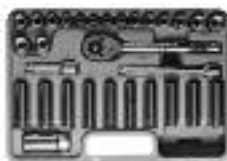
Fractional & Metric Socket Sets

12-Point Standard & Deep Fractional & Metric Set

Crescent Includes

- 8 standard sockets 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- 5 deep standard sockets 7/16", 1/2", 9/16", 5/8", 11/16"
- 8 metric sockets 9, 10, 12, 13, 14, 15, 17, 19mm
- 5 deep metric sockets 12, 13, 14, 16, 17mm
- **plus** 3/8" drive ratchet, 6" & 3" extensions, 13/16" spark plug socket & molded case

Stk. **310621** Mfg. CTK30SET 30-piece set **\$ 50.10**



12-Point Standard & Deep Fractional & Metric Set

Stanley Includes

- 10 standard sockets 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16" & 7/8"
- 11 standard sockets 8, 9, 10, 11, 12, 13, 14, 15, 17, 18 & 19mm
- 9 deep sockets 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16" & 7/8"
- **plus** reversible ratchet, drive universal joint, 3" & 6" extension & case

Stk. **864791** Mfg. 85-405 34-piece set **\$ 76.50**



Fractional & Metric Socket Sets, cont.

12-Point Standard & Deep Fractional & Metric Socket Set

GEARWRENCH Includes

- 13 standard sockets 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" & 1"
- 11 deep sockets 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"
- 28 standard & deep metric sockets 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 & 19mm
- **plus** 2 extensions (3" & 6"), 2 handles (*stubby & ratchet*), universal joint, case

Stk. **433132** Mfg. 80551 57-piece set **\$ 133.00**



Hand Impact Tool Set

Lisle Loosens rusted and frozen nuts, bolts and screws. Unique design delivers over 200 ft. lbs. of shock torque. Reverse process to tighten. Can be used with impact sockets.

- Includes 3/8" impact tool, 3/8" bit holder, 4 Phillips bits (#s 1, 2, 3 & 4) & 3/8" straight slot bit.

Stk. **503850** Mfg. 29200 7-pc. set **\$ 39.60**



1/2" Sockets

Socket Holders

Proto

Stk. **910035** Mfg. 2575 16 clips **\$ 4.29**



Lisle Magnetic. Organizes 1/2" chrome & impact sockets. 22-socket compartmented holder secures 1/2" standard & deep sockets. Holds sockets up to 1" or 20 mm. Holders leave sockets exposed for easy identification. Made of strong ABS plastic. Rubber feet protect tool box from scratching. Red.

Stk. **503942** Mfg. 40900 **\$ 32.10**



Handles & Attachments

Stk.	Mfg.	Item	Length	Price
Proto				
932123	5447	ratchet attachment	2-1/2".....	\$ 78.40
932391	5457F	swivel head ratchet	13".....	88.70
GEARWRENCH				
433426	81354	adapter, 1/2" F x 3/8" M	3/8".....	\$ 6.20
433168	80600	universal joint	2-5/16".....	16.50
433420	81340	extension	3".....	6.95
433421	81341	extension	5".....	12.20
433422	81342	extension	10".....	14.70
433423	81343	extension	15".....	22.20
433415	81312	speeder handle	16".....	30.40
433409	81307	flex handle	15".....	35.40
433410	81304	teardrop ratchet	11".....	49.30

Great for Spark Plugs Swivel Head Ratchet

Proto Chrome-plated positive grip ratchet features springs in each of the forks of the hinge that allow for infinite angles.

Stk. **932391** Mfg. 5457A 13"L **\$ 88.70**



Turn to pages 83-84 for
Mobile Work & Tool Benches.

Sockets & Supplies, cont.

1/2" Sockets, cont.

Sockets

GEARWRENCH 6-Point Standard Sockets

Stk. 433170	Mfg. 80602	7/16"	\$ 4.93
Stk. 433171	Mfg. 80603	1/2"	4.93
Stk. 433172	Mfg. 80604	9/16"	4.93
Stk. 433173	Mfg. 80605	5/8"	5.13
Stk. 433174	Mfg. 80606	11/16"	5.45
Stk. 433175	Mfg. 80607	3/4"	5.45
Stk. 433176	Mfg. 80608	13/16"	5.48
Stk. 433177	Mfg. 80609	7/8"	5.48
Stk. 433178	Mfg. 80610	15/16"	6.15
Stk. 433179	Mfg. 80611	1"	6.15
Stk. 433180	Mfg. 80612	1-1/16"	7.50
Stk. 433181	Mfg. 80613	1-1/8"	7.50
Stk. 433210	Mfg. 80678	1-1/4"	8.85



GEARWRENCH 6-Point Deep Sockets

Stk. 433182	Mfg. 80614	1/2"	\$ 8.25
Stk. 433183	Mfg. 80615	9/16"	8.25
Stk. 433184	Mfg. 80616	5/8"	8.25
Stk. 433185	Mfg. 80617	11/16"	8.88
Stk. 433186	Mfg. 80618	3/4"	8.95
Stk. 433187	Mfg. 80619	13/16"	9.58
Stk. 433188	Mfg. 80620	7/8"	10.30
Stk. 433189	Mfg. 80621	15/16"	11.20

Proto 12-Point Universal Sockets

Stk. 932994	Mfg. 5475A	1/2"	\$ 39.90
Stk. 933061	Mfg. 5476A	9/16"	39.90
Stk. 933128	Mfg. 5477A	5/8"	43.50

Proto Standard Screwdriver Bit Sockets

Stk. 931922	Mfg. 5444A	3/4"	\$ 14.70
Stk. 932056	Mfg. 5446A	15/16"	15.80



Fractional Socket Sets

12-Point Deep Fractional Set

Blackhawk Includes 11 sockets 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16" & 1-1/8", plus storage rail.

Stk. 904180	Mfg. 314-C	11-piece set	\$ 112.00
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6-Point Deep Fractional Set

GEARWRENCH Includes 14 sockets 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4" & 1-1/2", plus case.

Stk. 433235	Mfg. 80733	14-piece set	\$ 79.40
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12-Point Standard Fractional Set

GEARWRENCH Includes 15 sockets 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-1/2", plus case.

Stk. 433233	Mfg. 80731	15-piece set	\$ 62.90
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12-Point Standard Fractional Set

GEARWRENCH Includes
 • 14 sockets 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4" & 1-1/2"
 • plus 2 handles (ratchet & flex), 5" extension, universal joint & case

Stk. 433225	Mfg. 80716	18-piece set	\$ 73.50
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Stanley Includes

• six 6-point standard sockets 7/16", 1/2", 9/16", 5/8", 11/16" & 3/4"
 • seven 12-point standard sockets 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8" & 1-1/4"

• nine 12-point deep sockets 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" & 1"
 • plus reversible ratchet, 5" extension, 18" hinge handle, universal joint & case

Stk. 864792	Mfg. 85-434	26-piece set	\$ 118.00
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Sockets & Supplies, cont.

Fractional Socket Sets, cont.

6- & 12-Point Standard & Deep Fractional Set

GEARWRENCH Includes

- 1-1/2" six-point deep socket
- fourteen 12-point standard sockets 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4" & 1-1/2"
- thirteen 12-point deep sockets 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8" & 1-1/4"
- plus 2 extensions (3" & 5"), 2 handles (flex & ratchet), universal joint, case

Stk. 433224	Mfg. 80714	33-piece set	\$ 110.00
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Metric Socket Sets

12-Point Standard Metric Set

GEARWRENCH Includes 13 sockets 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm, plus storage rail.

Stk. 433223	Mfg. 80710	13-piece set	\$ 51.00
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12-Point Standard & Deep Metric Set

GEARWRENCH Includes
 • 24 standard sockets 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 & 36mm

• 13 deep sockets 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32mm

Stk. 433232	Mfg. 80730	37-piece set	\$ 110.00
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Fractional & Metric Socket Sets

12-Point Standard & Deep Fractional & Metric Set

GEARWRENCH Includes

- 12 standard sockets 7/16", 1/2", 9/16", 5/8", 11/16", 7/8", 15/16", 1", 1-1/16" & 1-1/8"
- 8 deep sockets 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8" & 15/16"
- 15 standard metric sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 & 24mm
- 10 deep metric sockets 10, 11, 12, 13, 14, 15, 16, 17, 18 & 19mm
- plus 2 extensions (3" & 5"), ratchet handle, universal joint & case

Stk. 433218	Mfg. 80701	49-piece set	\$ 199.00
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Impact Socket Sets

6-Point Standard Fractional Impact Socket Sets

GEARWRENCH Surface Drive™ technology sockets made of strong, long-lasting chrome Molybdenum alloy steel. High-visibility, laser-etched markings.

Includes 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16" & case.

Stk. 433560	Mfg. 84931	12-pc. set	\$ 44.80
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Includes 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2" & case.

Stk. 433561	Mfg. 84932	19-pc. set	\$ 84.80
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Store, protect & tote your valuable tools.
 Find **Tool Boxes & Chests** on pages 195-196.

Sockets & Supplies, cont.

Combination 1/4" & 3/8" Socket Sets

6-Point Standard Fractional & Metric Set

GEARWRENCH Includes

- 19-piece 6-point 1/4" socket set 11 standard (5/32" to 9/16"), 8 metric (4 to 10mm)
- 16-piece 6-point 3/8" socket set 9 standard (1/4" to 3/4"), 7 metric (9 to 15mm)
- plus 3/8" ratchet handle, extension (3"), spark plug socket (5/8"), adapter (3/8" F x 1/4") & case

Stk. **433300** Mfg. 80929 39-piece set **\$ 40.30**



Auto Starter Set w/6-Point Fractional & Metric Socket Sets, plus Tool Sets

GEARWRENCH Includes

- 27-piece 1/4" socket & tool set 13 metric sockets 4 to 15mm & 10 fractional sockets 3/16" to 9/16", plus 2 handles (ratchet & spinner), 2 extensions (3" & 6")
- 33-piece 3/8" socket & tool set 14 metric sockets 6 to 19mm & 13 fractional sockets 1/4" to 1", plus ratchet handle, 2 extensions (3" & 6"), 2 spark plug sockets (5/8" & 13/16") & universal joint
- 24-piece fractional/metric long combination wrench set 1/2" to 1" & 8 to 22mm
- 6-piece combination screwdriver set 1/8" x 3" slotted w/cabinet tip, 3 slotted w/hex bolster (1/4" x 4", 5/16" x 6" & 3/8" x 8"), #1 x 3" phillips, #2 x 4" phillips w/hex bolster
- 4-piece pliers set 9.5" tongue & groove, 7" diagonal cutting, 8" long nose & 10" curved jaw locking pliers
- 13-piece fractional Allen key set 0.050" to 3/8"
- 5-piece punch & chisel set 3/8" x 5" center punch, 3 pin punches (1/8" x 5" x 5/16", 5/32" x 5-1/4" x 5/16" & 3/16" x 5-1/2" x 5/16") & 1/2" x 6" x 3/8" cold chisel
- 5-piece general purpose tool set 2 hammers (16 oz. ball pein w/fiber-glass handle & 12 oz. soft face w/removable caps), 2-blade folding electrician's knife, aluminum flashlight & pair of safety glasses
- 3-piece KD® specialty tool set low voltage circuit tester, 16-blade feeler gauge & gasket scraper
- plus 4 socket storage rails, screwdriver storage tray & tool box w/tray

Stk. **433540** Mfg. 83090 121-piece set **\$ 538.00**



Combination 1/4", 3/8" & 1/2" Socket Sets

6- & 12-Point Standard Fractional & Metric Combination Tool Sets

Crescent Includes

- 16-piece 6-point 1/4" standard sockets eight 3/16" to 7/16" & eight 5-12mm
- 16-piece 12-point 3/8" standard sockets eight 3/8" to 13/16" & eight 10-19mm
- 12-piece combination wrenches six 3/8" to 1 1/16" & six 10-17mm
- 8-piece hex key set 1/16" to 1/4"
- 12-piece magnetic bits 3 standard 3/16" to 1/4", 3 Torx® T#s 10-20, 3 Phillips #s 1-3, 3 Allen wrenches 1/4" to 3/16"
- plus 1/4" & 3/8" drive ratchet, 1/4" x 3" & 3/8" x 3" extensions, 1/4" to 3/8" adapter, magnetic bit driver & molded case

Stk. **310620** Mfg. CTK70MP 70-piece set **\$ 85.30**



Combination 1/4", 3/8" & 1/2" Socket Sets, cont.

Crescent Includes

- 20-piece 6-point 1/4" standard sockets ten 3/16" to 9/16" & ten 4-13mm
- 16-piece 12-point 3/8" standard sockets eight 5/16" to 3/4" & eight 9-19mm
- 10-piece 6-point 3/8" deep sockets five 7/16" to 3/4" & five 12-17mm
- 10-piece 6-point 1/2" standard sockets five 1/2" to 7/8" & five 15-21mm
- 12-piece combination wrenches six 5/16" to 5/8" & six 8-15mm
- 18-piece hex keys & holders eight 1/16" to 1/4" & eight 1.5-6mm
- 44 bits & holders 7 standard 1/8" to 5/16", 8 Phillips #s 0-3, 7 Torx® T#s 10-40, 3 Pozidriv® PZ#s 1-3, 5 hex 3/32" to 1/4", 5 hex 3-7mm & 3 square S#s 1-3
- 4-piece screwdrivers 1/4" x 4" & 3/16" x 3" slotted, #1 x 3" & #2 x 4" Phillips
- plus 1/4", 1/2" & 3/8" drive ratchet, 1/4" x 3", 3/8" x 3", 1/2" x 5", 3/8" x 6" extensions, 3/8" to 1/4" adapter, 5/8" & 13/16" spark plug sockets, 8" long nose pliers, 6" diagonal pliers, magnetic bit driver & molded case

Stk. **310619** Mfg. CTK148MP 148-piece set **\$ 140.00**



6- & 12-Point Standard & Deep Fractional & Metric Combination Tool Set

Crescent Includes

- 23-piece 6-point 1/4" socket set 11 standard 5/32" to 9/16", 10 metric 4-13mm, ratchet & 3" extension bar
- 12-piece 6-point 1/2" socket set 5 standard 1/2" to 7/8", 5 metric 15-21mm, plus ratchet, 5" extension bar
- 12-piece 6-point 3/8" socket set 7 standard deep 3/8" to 3/4", 5 metric 12-17mm
- 25-piece 12-point 3/8" socket set 11 standard 3/16" to 7/8", 14 metric 6-20mm
- 6-piece 12-point 3/8" tools ratchet, 3" & 6" extension bars, 1/4" adapter, 5/8" & 13/16" spark plug sockets
- 12-piece 12-point combination wrench set 6 standard 5/16" to 5/8", 6 metric 8-15mm
- 4-piece screwdriver set 2 Phillips #2 x 4", #1 x 3" & 2 slotted 1/4 x 4", 3/16 x 3"
- 26-piece hex key set 13 standard (SAE) & 13 metric
- 44-piece bit set
- plus magnetic bit driver, 8" long nose pliers, 10" tongue & groove pliers, 8" adj. wrench & molded case

Stk. **310617** Mfg. CTK170MP 170-piece set **\$ 168.00**



Universal Adapter Socket Set

GEARWRENCH Includes

- 2 universal joints (1/4" & 3/8")
- 3 impact universal joints (1/4", 3/8", 1/2")
- two 3/8" F adapters (1/4" M & 1/2" M)
- two 1/2" F adapters (3/8" M & 3/4" M)
- 1/4" F adapter (3/8" M)

• plus molded case

Stk. **433375** Mfg. 81205 10-piece set **\$ 91.60**



Automotive Tool Cabinet
Get it with or without the tools. Page 72.

Sockets & Supplies, cont.

Hex & Torx® Bit Socket Sets

3/8" & 1/2" Fractional Hex Bit Socket Set

GEARWRENCH Includes seven 3/8" sockets (1/8", 5/32", 3/16", 7/32", 1/4", 5/16" & 3/8") & three 1/2" sockets (1/2", 9/16" & 5/8"), plus storage rail.
Stk. **433150** Mfg. 80579 10-piece set **\$ 67.80**



1/4" & 3/8" Torx® Bit Socket Set

Lisle Includes seven 1/4" bits T#s 10-40, three 3/8" bits T#s 45-55, 2 bit holders & vinyl holder.
Stk. **503741** Mfg. 26530. . 10-pc. set **\$ 31.10**



1/4", 3/8" & 1/2" Torx® Press Fit Bit Socket Set

GEARWRENCH Includes
• seven 1/4" sockets (T#s 8, 10, 15, 20, 25, 27 & 30) • 1/2" socket (T-60)
• five 3/8" sockets (T#s 40, 45, 47, 50 & 55) • plus storage rail
Stk. **433228** Mfg. 80723 13-piece set **\$ 41.50**



1/4", 3/8" & 1/2" Torx®, plus Fractional & Metric Hex Bit Socket Sets

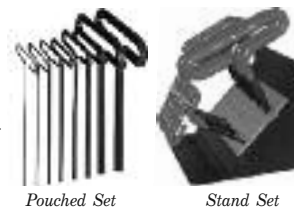
GEARWRENCH Includes
• six 1/4" Torx press fit bit sockets (T#s 10, 15, 20, 25, 27 & 30)
• four 1/4" external Torx sockets (E#s 5, 6, 7 & 8)
• five 3/8" Torx press fit bit sockets (T#s 40, 45, 47, 50 & 55)
• four 3/8" external Torx sockets (E#s 10, 12, 14 & 16)
• six 3/8" standard hex bit sockets (5/32", 3/16", 7/32", 1/4", 5/16" & 3/8")
• ten 3/8" hex bit sockets (2, 2.5, 3, 4, 5, 6, 7, 8, 9 & 10mm)
• plus 1/2" external Torx socket (E-18) & molded case
Stk. **433230** Mfg. 80726 36-piece set **\$ 135.00**



Allen Wrench Sets

T-Handle Allen Wrench Sets

Eklind Made from 1 continuous piece of hexagon, industrial-grade alloy steel. Heat-treated for optimum strength. Black rust-resistant finish. Proportional-balanced design for maximum leverage, reach and torque. Square-cut ends engage the full socket depth for tightening without reaming. USA made.



Pouched Set

Stand Set

Pouched Sets. Includes standard keys & vinyl pouch.

Fractional 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4".
Stk. **385200** Mfg. 33168 8-piece set (6'L) **\$ 19.90**
Stk. **385210** Mfg. 33198 8-piece set (9'L) **22.90**

Fractional 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" & 3/8".
Stk. **385220** Mfg. 33610 10-piece set (6'L) **\$ 36.00**
Stk. **385230** Mfg. 33910 10-piece set (9'L) **40.80**

Metric 2, 2.5, 3, 4, 5, 6, 8 & 10mm.
Stk. **385250** Mfg. 35168 8-piece set (6'L) **\$ 31.30**

Stand Sets. Includes vinyl cushion-grip color-coded handles (red for inch, blue for metric) & universal stand that can be attached to wall, work bench & other stands (fits inch, metric & Torx keys).

Fractional 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" & 3/8".
Stk. **385270** Mfg. 50160 10-piece set (6'L) **\$ 50.80**

Metric 2, 2.5, 3, 4, 5, 6, 8 & 10mm.
Stk. **385280** Mfg. 56168 8-piece set (6'L) **\$ 46.80**

Allen Wrench Sets, cont.

Fractional Fold-up Sets

Precision heat-treated hardened and tempered to assure maximum strength throughout with a rust resistant black oxide finish. Tightly secured in a 1-piece steel case with a correctly proportioned handle (unless otherwise noted).



Eklind Set of 5 3/16", 7/32", 1/4", 5/16" & 3/8".
Stk. **385000** Mfg. 20511 **\$ 10.40**

Eklind Set of 8 .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64" & 5/32".
Stk. **385030** Mfg. 20811 **\$ 4.78**

Eklind Set of 8 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4".
Stk. **385031** Mfg. 20812 **\$ 9.64**

Proto Set of 8 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4".
Stk. **922743** Mfg. 4991 long set **\$ 11.00**

Eklind Set of 9 .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" & 3/16".
Stk. **385051** Mfg. 20912 **\$ 5.81**

Eklind Set of 9 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4".
Stk. **385050** Mfg. 20911 **\$ 7.36**

Proto Set of 9 .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" & 3/16".
Stk. **922006** Mfg. 4978 **\$ 6.77**

DEWALT Ergonomic, soft-grip case w/steel side plate & push-button locks at 90°, 135° & 180°.



3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4".
Stk. **243417** Mfg. DWHT70262M 8-piece set **\$ 14.80**

Eklind Ergo-Fold™ case w/ergonomic, soft-grip handle for comfort & slip resistance, hard shell for strength.



5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4".
Stk. **385160** Mfg. 25911 9-piece set **\$ 9.09**

.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" & 3/16".
Stk. **385161** Mfg. 25912 9-piece set **\$ 7.82**

Fractional Pouch & Holder Sets

Proto Set of 7 5/64", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4", plus molded holder.
Stk. **922020** Mfg. 4982 **\$ 4.25**

Proto Set of 11 .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4", plus molded holder.
Stk. **922019** Mfg. 4981 **\$ 6.85**

Eklind Short Set of 7 5/64", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4", plus molded holder.
Stk. **384880** Mfg. 10107 **\$ 3.35**

Eklind Short Set of 11 .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4", plus molded holder.
Stk. **384882** Mfg. 10111 **\$ 5.50**

Eklind Short & Long Set of 18
Short pattern .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" & 7/32".

Long pattern 1/16", 5/64", 3/32", 7/64", 1/8", 5/32", 3/16", 1/4" & 5/16", plus vinyl pouch.
Stk. **385300** Mfg. 69218 **\$ 7.49**



Fractional Cased Set

Eklind Short Set of 15 .028", .035", .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" & 3/8", plus metal hang-up case w/flip-up index.
Stk. **384900** Mfg. 10115 **\$ 24.10**



Allen Wrench Sets, cont.

Fractional & Metric Fold-up & Holder Sets

Fold-up & Holder Sets

Eklind Set of 16

9-piece fractional set: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4".

7-piece metric set: 1.5, 2, 2.5, 3, 4, 5 & 6mm.

Stk. **385170** Mfg. 26160..... \$ **13.40**



Eklind Ball-Hex-L™ Set of 22

Keys contain a ball profile on the long arm. Rotates 360° up to 35° for extra torque. Color-coded holders.

13-piece fractional set: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" & 3/8".

9-piece metric set: 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10mm.

Stk. **384950** Mfg. 13222..... \$ **42.30**

Metric Fold-up Sets

Precision heat-treated hardened and tempered to assure maximum strength throughout with a rust resistant black oxide finish. Tightly secured in a 1-piece steel case with a correctly proportioned handle (unless otherwise noted).

Eklind Set of 6 3, 4, 5, 6, 8 & 10mm.

Stk. **385100** Mfg. 21151..... \$ **11.10**

Proto Set of 6 3, 4, 5, 6, 8 & 10mm.

Stk. **921805** Mfg. 4973..... long set \$ **12.30**

Eklind Set of 7 1.5, 2, 2.5, 3, 4, 5 & 6mm.

Stk. **385110** Mfg. 21171..... \$ **6.01**

Proto Set of 7 1.5, 2, 2.5, 3, 4, 5 & 6mm.

Stk. **921872** Mfg. 4974..... \$ **6.81**

Eklind Set of 7 2, 2.5, 3, 4, 5, 6 & 8mm.

Stk. **385111** Mfg. 21172..... \$ **7.94**



DEWALT Ergonomic, soft-grip case w/steel side plate & push-button locks at 90°, 135° & 180°.

1.5, 2, 2.5, 3, 4, 5, 6 & 8mm.

Stk. **243418** Mfg. DWHT70263M..... 8-piece set \$ **14.80**



Metric Pouch & Holder Sets

Eklind Set of 10 1.3, 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10mm, plus vinyl case.

Stk. **385292** Mfg. 69210..... \$ **6.40**



Eklind Short Set of 7 1.5, 2, 2.5, 3, 4, 5 & 6mm, plus molded holder.

Stk. **384915** Mfg. 10507..... \$ **6.09**

Eklind Short Set of 9 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10mm, plus molded holder.

Stk. **384916** Mfg. 10509..... \$ **9.64**

Metric Cased Set

Eklind Short Set of 15 0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 14, 17mm, plus metal case w/flip-up index.

Stk. **384920** Mfg. 10515..... \$ **44.30**



Torx® Fold-up Sets

Eklind Set of 7 T#s 6, 7, 8, 9, 10, 15 & 20.

Stk. **385151** Mfg. 22572..... metal case \$ **14.40**

Eklind Set of 7 T#s 10, 15, 20, 25, 27, 30 & 40.

Stk. **385150** Mfg. 22571..... metal case \$ **14.40**



Torx® Pouched Set

Proto Set of 10 T#s 10, 15, 20, 25, 27, 30, 40, 45, 50 & 55, plus vinyl pouch.

Stk. **921792** Mfg. 4961..... \$ **68.00**



Box End Wrenches

Long Box End Wrenches

Stk.	Mfg.	Length	Opening Sizes	Price
Blackhawk 12-Point Fractional				
905208	BWS-1202P	7.2"	5/16" x 3/8"	\$ 12.10
905209	BWS-1206P	8.3"	7/16" x 1/2"	12.80
905210	BWS-1210P	9.4"	1/2" x 9/16"	14.00
905211	BWS-1211P	10.1"	9/16" x 5/8"	14.60
905212	BWS-1216P	13.3"	13/16" x 7/8"	19.90

Blackhawk 5/16" x 3/8", 7/16" x 1/2", 5/8" x 9/16", 11/16" x 3/4", 13/16" x 7/8" & 15/16" x 1".

Stk. **905214** Mfg. BW-6PTNB... 6-pc. set \$ **74.60**



Obstruction Wrenches

Stk.	Mfg.	Length	Opening Sizes	Price
Proto 12-Point Fractional				
908338	1725	5-1/2"	7/16" x 1/2"	\$ 28.50
908405	1730	6"	9/16" x 5/8"	33.30
908472	1731	6-1/2"	5/8" x 3/4"	37.70

Ratcheting Box End Wrench Sets

Fractional

GEARWRENCH 12-Point 5/16" x 3/8", 7/16" x 1/2", 9/16" x 5/8" & 11/16" x 3/4".

Stk. **432800** Mfg. 9240..... 4-piece set \$ **63.70**

Klein 12-Point 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16" & 5/8" x 3/4", plus roll pouch.

Stk. **945000** Mfg. 68221..... 5-piece set \$ **103.00**



Metric

GEARWRENCH 12-Point mm#s 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 18 & 17 x 19.

Stk. **432810** Mfg. 9260..... 6-piece set \$ **92.00**

First Aid, Blood-borne Pathogen, Defibrillator
Pages 99-100.

Please turn the page to find
Combination Wrenches.

Adjustable Wrenches



Crescent Wrenches of fine alloy steel heat-treated for extra strength. Tension spring under knurl helps prevent jaw opening from changing adjustment. Open handle design permits easier knurl adjustment.

Stk.	Mfg.	Length	Capacity	Price
Black pattern. Polished head.				
307737	AT14V	4"	1/2"	\$ 18.20
307871	AT16V	6"	15/16"	18.20
308005	AT18V	8"	1-1/8"	18.90
310216	AT110V	10"	1-5/16"	23.70
310350	AT112V	12"	1-1/2"	36.70
310484	AT115	15"	1-11/16"	60.50
310618	AT118	18"	2-1/16"	106.00

Stk.	Mfg.	Length	Capacity	Price
Chrome finish. Polished head. Full polish.				
307670	AC14	4"	1/2"	\$ 21.00
307804	AC16	6"	15/16"	21.10
307938	AC18	8"	1-1/8"	22.00
310149	AC110	10"	1-5/16"	29.80
310283	AC112	12"	1-1/2"	43.90
310417	AC115	15"	1-11/16"	67.10
310551	AC118	18"	2-1/16"	117.00

Pony Drop-forged, hardened and tempered alloy steel wrench. Precision-ground jaws, knurled adjuster.



Stk.	Mfg.	Length	Capacity	Price
192420	01-006	6"	7/8"	\$ 5.83
192421	01-008	8"	1"	7.02
192422	01-010	10"	1-1/4"	10.80
192423	01-012	12"	1-1/2"	13.50

Adjustable Wrench Set

Crescent Wide capacity jaws to work with more fastener sizes. Proportioned for the greatest strength with minimum weight. Wider handle for comfort. Tension spring stabilizes jaw and knurl adjusts easily. Chrome plated alloy steel is heat treated. Polished head and satin finished handle.

Includes 6"L wrench (15/16" cap'y.), 8"L wrench (1-1/8" cap'y.), 10"L wrench (1-5/16" cap'y.) & pouch.
Stk. 307660 Mfg. AC3 3-piece set \$ 72.40



Open End Wrenches

Open End Wrench Sets

GEARWRENCH Fractional Set. Includes 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 13/16" x 3/4", 15/16" x 1" & 1-1/8" x 1-1/4".
Stk. 433516 Mfg. 81929..... 7-pc. set \$ 67.20

GEARWRENCH Metric Set. Includes mm#s 6 x 7, 8 x 10, 10 x 12, 11 x 13, 12 x 14 & 17 x 19.
Stk. 433515 Mfg. 81928..... 6-pc. set \$ 41.80



Flare Nut Wrench Sets

GEARWRENCH Fractional Flex Set. 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 7/8".
Stk. 433506 Mfg. 81910... 5-pc. set \$ 80.80



GEARWRENCH Fractional Set. 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 7/8" & tray.
Stk. 433508 Mfg. 81907... 6-pc. set \$ 52.60

GEARWRENCH Metric Set. 9 x 11, 10 x 12, 13 x 14, 15 x 17, 16 x 18 & 19 x 21 & tray.
Stk. 433507 Mfg. 81906... 6-pc. set \$ 67.40



Open End Wrenches, cont.

Ignition Wrench Set

Armstrong Industrial-quality 15° and 80° wrenches. Forged, 1-piece design with full-polish finish. Anti-slip notches for greater torque. USA made. Meets or exceeds ANSI standards.

Includes 13/64", 7/32", 15/64", 1/4", 9/32", 5/16", 11/32", 3/8", plus 5" ignition pliers & rolled pouch.
Stk. 219580 Mfg. 27-942..... 9-piece set \$ 85.20



Fractional Tappet Wrench Set

Armstrong Industrial-quality, extra-thin wrenches. Forged, 1-piece design with satin finish. Anti-slip notches for greater torque. USA made. Meets/exceeds ANSI standards.

Includes 2 ea. of 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 7/8", plus roll pouch.
Stk. 219570 Mfg. 27-770..... 8-piece set \$ 137.00



Combination Wrenches



Stk.	Mfg.	Length	Opening Sizes	Price
Blackhawk 12-Point Fractional. Box end bent at 15°.				
905061	BW-1156	4"	1/4"	\$ 7.92
905079	BW-1159	4-1/2"	5/16"	8.03
905085	BW-1160	5-1/4"	3/8"	8.11
905097	BW-1161	5-3/4"	7/16"	8.32
905109	BW-1162	6-1/2"	1/2"	8.49
905128	BW-1163	6-3/4"	9/16"	9.87
905140	BW-1164	8"	5/8"	10.90
905152	BW-1165	8-1/2"	11/16"	11.80
905164	BW-1166	9-3/4"	3/4"	12.60
905183	BW-1167A	10-1/2"	13/16"	15.50
905182	BW-1167	11-1/2"	7/8"	19.60
905195	BW-1168	12-1/2"	15/16"	22.10
905201	BW-1170	13-1/2"	1"	26.10
905207	BW-1171	14-3/4"	1-1/16"	29.40
905213	BW-1172	15-1/2"	1-1/8"	31.70
905219	BW-1173	17"	1-1/4"	48.80

Stk.	Mfg.	Length	Opening Sizes	Price
Blackhawk 12-Point Metric				
905049	BW-1107M	4"	7mm	\$ 8.26
905050	BW-1108M	4-1/2"	8mm	8.32
905051	BW-1109M	4-3/4"	9mm	8.40
905052	BW-1110M	5"	10mm	8.45
905053	BW-1111M	5-3/4"	11mm	9.27
905054	BW-1112M	6-1/8"	12mm	9.75
905056	BW-1113M	6-1/2"	13mm	10.10
905057	BW-1114M	7"	14mm	10.40
905058	BW-1115M	7-1/2"	15mm	10.70
905059	BW-1116M	8"	16mm	11.70
905060	BW-1117M	8-3/4"	17mm	12.90
905062	BW-1118M	9-1/8"	18mm	13.40
905063	BW-1119M	9-3/4"	19mm	14.70
905064	BW-1121M	10-1/2"	21mm	17.00
905065	BW-1122M	11-1/2"	22mm	21.50

Work Benches & Accessories, pages 77-85.
Stools, pages 75-77.

Combination Wrenches, cont.

Combination Wrench Sets

Fractional Wrench Sets

GEARWRENCH 6-Point. 1/4", 15/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1".
Stk. **433510** Mfg. 81924... 14-pc. set **\$ 52.70**



Master Mechanic 12-Point. 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", plus rack.
Stk. **943273** Mfg. 106179 6-piece set **\$ 21.70**

Blackhawk 12-Point. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16" & 3/4", plus pouch.
Stk. **905830** Mfg. 9609PNB 9-piece set **\$ 88.20**

Pony 12-Point. 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16" & 7/8", plus rack.
Stk. **192445** Mfg. 04-812 12-piece set **\$ 27.90**

Stanley 12-Point. 1/4", 5/16", 3/8", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 9/32", 11/32" & 7/16".
Stk. **864820** Mfg. 87-244 13-piece set **\$ 65.80**

Blackhawk 12-Point. 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 13/16", 15/16", 1", 1-1/8" & 1-1/4", plus roll pouch.
Stk. **905589** Mfg. MF-014 14-piece set **\$ 148.00**

Pony 12-Point. 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8" & 1-1/4", plus vinyl pouch.
Stk. **192447** Mfg. 04-814 15-piece set **\$ 74.50**

Blackhawk 12-Point. 1/4, 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 13/16", 15/16", 1", 1-1/16", 1-1/8", 1-5/16" & 1-1/4", plus roll pouch.
Stk. **905586** Mfg. MF-017 17-piece set **\$ 138.00**

Metric Wrench Sets

GEARWRENCH 6-Point. 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm.
Stk. **433511** Mfg. 81925 14-piece set **\$ 47.10**

Blackhawk 6- & 12-Point. 6-pt. 8 & 9, 12-pt. 10, 11, 12, 14, 17 & 19mm, plus roll pouch.
Stk. **905587** Mfg. MF-008M 8-piece set **\$ 69.00**

Pony 12-Point. 7, 8, 9, 10, 11, 12, 13, 14, 17, 19 & 22mm, plus rack.
Stk. **192446** Mfg. 04-813 11-piece set **\$ 27.90**

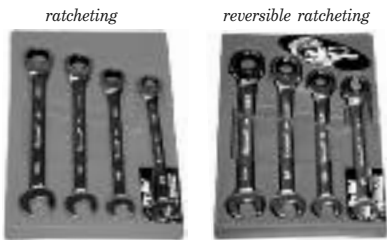
Blackhawk 12-Point. 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 & 22mm, plus pouch.
Stk. **905590** Mfg. MF-017M 17-piece set **\$ 136.00**

Fractional & Metric Wrench Sets

GEARWRENCH 6-Point
• 14-piece fractional set 1/4", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" & 1"
• 14-piece metric set mm#s 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 & 19
Stk. **433509** Mfg. 81923 28-piece set **\$ 94.70**

12-Point Ratcheting Combination Sets

Crescent Ratchet feature turns fasteners with a 5° swing vs. standard 30°. Narrow cross-section design on box and open ends allow access to tighter work spaces. Open end jaw surfaces are parallel within ±0.0015" for better contact with fastener surfaces and higher torque transfer. Exceeds ANSI load specifications.



Ratcheting Set. 3/8", 7/16", 1/2" & 9/16", plus molded storage tray.
Stk. **308300** Mfg. FR4 4-piece set **\$ 40.80**

Reversible Ratcheting Sets

3/8", 7/16", 1/2" & 9/16", plus molded storage tray.
Stk. **308302** Mfg. FRR4 4-piece set **\$ 54.90**
5/16", 3/8", 7/16", 1/2", 9/16", 5/8" & 3/4", plus molded open-face case.
Stk. **308303** Mfg. FRR7 7-piece set **\$ 108.00**

Wrench Accessories

Magnetic Tool Holders

Master Magnetics Strong, permanent magnetic bar securely holds large or small tools & metal parts, provides easy grasp & instant release. Black w/yellow Day-Glo striping.
Stk. **530000** Mfg. 07561 24"L **\$ 21.20**

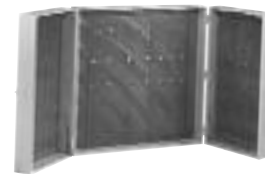


KD Tools Wrench Rack. Magnetic 15-slot locking rack neatly stores wrenches. Durable plastic rack has pre-drilled holes to easily mount to wall or toolbox.
Stk. **432790** Mfg. 3363 17"L **\$ 10.90**



Tool Cabinets & Panels

Wood Cabinets w/3 Storage Sections & Pegboard Lining

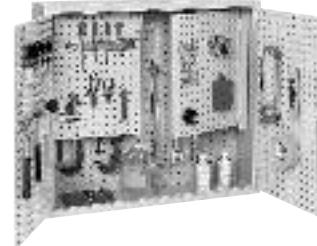


Shain Solid maple framing and 1/4" birch plywood construction. Interior is lined with 1/8" pegboard for flexible tool arrangement. Cabinet is finished natural with sealer and mul-tiple coats of lacquer. *Shipped set up.*

Includes tool hook asst., hasp & lock.

Overall size 48"H. Open 96"W x 4"D, closed 48"W x 8"D. 100 lbs.
Stk. **155469** Mfg. MC-1 **\$ 672.00**

shown with tools, sold separately



Steel Cabinet w/Square Peg Holes

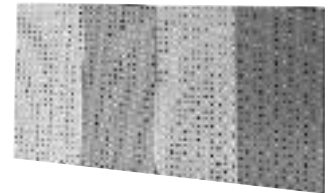
Kennedy Three-point locking doors combine easy access and convenient tool storage with security. Square hole perforated cabinet back and inner door panels give large tool hanging capacity. Comes with 24"L x 18"W swing-out inner panels for additional storage of flat tools. Tan finish.

Includes 60-piece tool holder set & 2 keys.

Overall size 44"W x 39-3/8"H x 11-13/16"D. 100 lbs.
Stk. **492880** Mfg. 50260TX **\$ 1,288.00**

Tool Board Wall Panels


Kennedy Reinforced steel panels with square hole perforations for the heaviest tool storage. Panels can be attached to a variety of surfaces and racks. Durable baked-on finish is chip resistant. Comes in a set of 2 panels.



Tool holders sold separately.

Overall size 18"W x 36"H.
Stk. **492870** Mfg. 50002TX tan **\$ 125.00**
Stk. **492871** Mfg. 50002UGY gray **125.00**

60-Piece Tool Holder Set. **Includes** 33 asst. single hooks, 9 asst. double hooks, 4 asst. pliers hooks, 10 asst. spring clips, ring hook, screwdriver unit, wrench rack & Allen key unit.
Stk. **492900** Mfg. 99853 **\$ 184.00**

Please turn the page to find 
Tool Panels filled with Tools.

Tool Panels

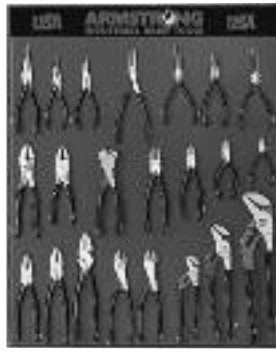
Pliers Panel

Armstrong Industrial-quality, cushion-grip pliers with aligned teeth for superior gripping power. Tapered nose pliers allow access to minimal-clearance areas. Strong cutters. Satin finish. USA made. Meets/exceeds ANSI standards.

23" x 29" panel includes:

- 3 lineman's pliers (7-1/4", 8-1/2" & 9-1/4")
- 5 diagonal cutting pliers (4-3/16", 5-1/2", 6", 7-1/16" & 8"HD)
- 8" heavy-duty cutting pliers w/angled head
- 2 chain nose pliers (6-5/8" & 7-1/8")
- 6-5/8" chain nose pliers w/cutter
- 3 needle nose pliers (6-5/8" slim, 6-5/8" long slim & 6-1/4" bent nose)
- 8" long-reach duckbill pliers
- 8-1/2" end-cutting nipper pliers
- 2 combination slip joint pliers (6-1/2" & 8")
- 3 tongue & groove pliers (6-1/2", 10" & 12")

Stk. **219615** Mfg. 95-960. 22-piece set **\$ 404.00**



Wrench Panels

Armstrong Industrial-quality wrenches. Forged, 1-piece design with full polish finish. Anti-slip notches increase torque. Meets/exceeds ANSI standards. USA made.

Fractional

23" x 29" panel includes:

- Four 6 pt. (1/8", 5/32", 3/16" & 7/32")
- Fourteen 12 pt. (1/4", 5/16", 1/32", 3/8" & 7/16", 1/2", 9/16", 5/8", 1/116", 3/4", 13/16", 7/8", 15/16" & 1")
- Seventeen 12 pt. long (1/4", 5/16", 1/32", 3/8", 7/16", 1/2", 9/16", 5/8", 1/116", 3/4", 13/16", 7/8", 1", 1-1/16", 1-1/8" & 1-1/4")

Stk. **219604** Mfg. 95-930. 35-piece set **\$ 580.00**



Metric

23" x 29" panel includes:

- Six 6 pt. (4, 5, 5.5, 6, 7 & 8mm)
- Eleven 12 pt. (9, 10, 11, 12, 13, 14, 15, 16, 17, 18 & 19mm)
- Twenty-five 12 pt. long (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 & 30)

Stk. **219606** Mfg. 95-932. 42-pc. **\$ 731.00**



Hammers Panel

Armstrong Industrial-quality hammers meet/exceed ANSI standards. USA made.

23" x 29" panel includes:

- 6 ball peen hammers w/hickory handles (4, 8 & 12 oz., 1, 1-1/2 & 2 lb.)
- 2 power-drive dead-blow hammers w/fiberglass handles (2 & 3 lb.)
- 2 brass head hammers w/fiberglass handles (1-1/2 & 2-1/2 lb.)

Stk. **219610** Mfg. 95-941. 10-piece set **\$ 326.00**

3/8" 6- & 12-Point Socket & Drive Tool Panel

Armstrong Industrial-quality sockets feature thin walls with precise nut end dimensions. Radius-corner design provides 15-20% more torque, reduces slippage and extends fastener life.

Large Eye-D markings clearly show size and SAE or metric. Meets/exceeds ASME B107.5M standards. USA made.

23" x 29" panel includes:

6 pt. sockets (26)

- 13 std. (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1/116", 3/4", 13/16", 7/8", 15/16" & 1")
- 13 deep (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1/116", 3/4", 13/16", 7/8", 15/16" & 1")

12 pt. sockets (33)

- 13 std. (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1/116", 3/4", 13/16", 7/8", 15/16" & 1")
- 13 deep (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 1/116", 3/4", 13/16", 7/8", 15/16" & 1")
- 7 flex (3/8", 7/16", 1/2", 9/16", 5/8", 1/116" & 3/4")

drivers (24)

- 7 hex (1/8", 5/32", 3/16", 7/32", 1/4", 5/16" & 3/8")
- 7 screwdrivers (1/4", 5/16", 3/8" & #s 1, 2, 3 & 4)
- 10 Torx® (T#s 10, 15, 20, 25, 27, 30, 40, 45, 50 & 55)
- 5 ratchets (7-1/2", 7-3/8" & 10-1/2", 8-1/2" hinge, 8-3/8" ergo & 9-1/2" flex)
- plus 6 extensions (1-3/4", 3", 6", 8", 12" & 7" flex), 3 handles (16-1/2" speeder, T-handle & male/female plastic driver), 2 male adapters (1/4" & 1/2") & universal joint

Stk. **219600** Mfg. 95-920. 101-piece set **\$ 994.00**



3/8" & 1/2" 12-Point & Hex Metric Socket Panel

Armstrong Industrial-quality sockets feature thin walls with precise nut end dimensions. Radius-corner design provides 15-20% more torque, reduces slippage and extends fastener life.

Large Eye-D markings clearly show size and SAE or metric. Meets/exceeds ASME B107.5M standards. USA made.

23" x 29" panel includes:

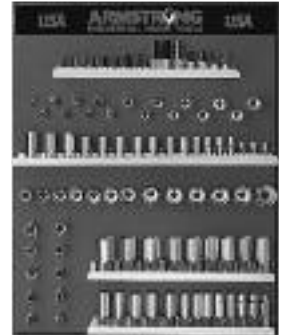
3/8" sockets

- 17 std. (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 & 22mm)
- 17 deep (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 & 22mm)
- 8 hex (3, 4, 5, 6, 7, 8, 9 & 10mm)

1/2" sockets

- 23 std. (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 & 36mm)
- 22 deep (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 & 32mm)
- 7 hex (6, 8, 10, 12, 14, 17 & 19mm)

Stk. **219602** Mfg. 95-928. 94-piece set **\$ 776.00**



Leather & Cloth Gloves, pages 100-101.

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