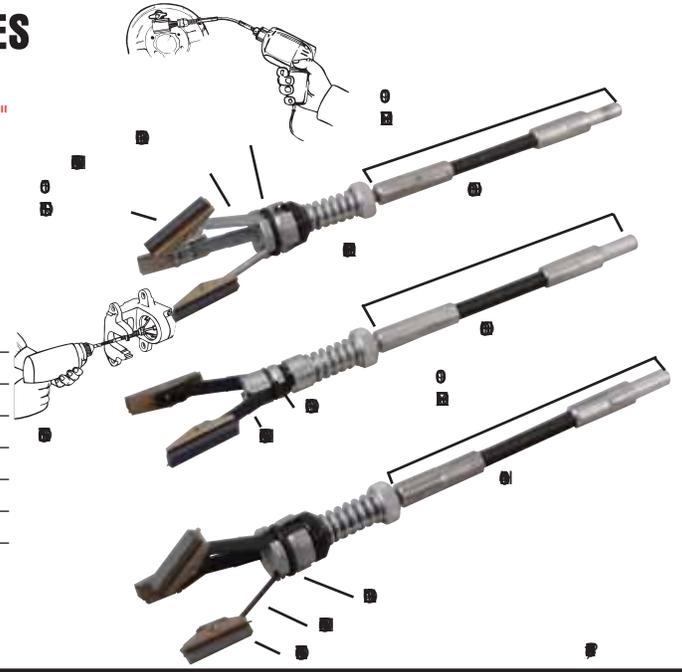
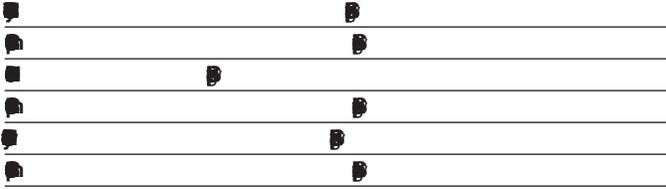


**10000 10400 10500 BRAKE HONES**

10000 3-Stone, Range 27/32" to 2".  
 10400 3-Stone Disc Brake Hone, Range 1 1/2" to 3 1/8".  
 10500 2-Stone Hone, Range 11/16" to 2 1/2".  
 Controlled pressure makes it possible to polish or hone with just one stone grit. Square ends of stones hone to the end in step-cut and blind-end cylinders. 240 grit stones are 1 1/8" long on 10000 & 10500; 10400 stones are 1". Flexible driver provides good stability.



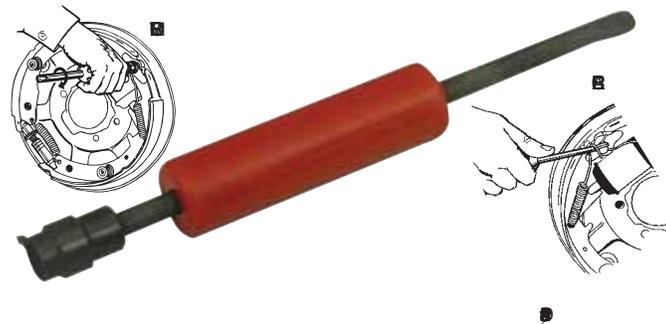
**22850 HOSE PINCHERS**

A quick, easy way to pinch off vacuum lines, fuel lines, brake lines, etc. without damaging the line. Sold two per set.



**46750 BRAKE SPRING TOOL**

Makes it Easy to Remove and Replace Springs.  
 A spring tool for removing and replacing brake return springs that are set over a post. Heat-treated end fitting engages hook and removes it from the post when the tool is turned clockwise. "Shoe horn" design on the other end makes it easy to slip the spring back over the post. Large handle gives good grip and easy operation.



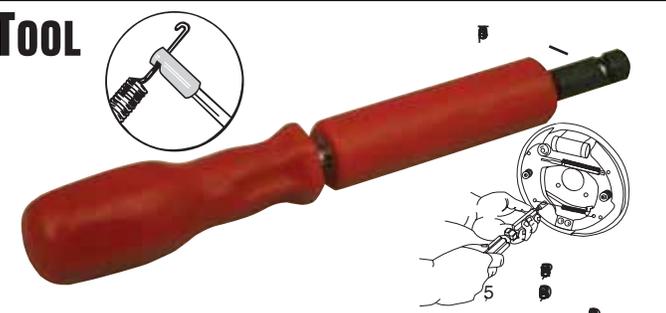
**45100 BRAKE SPRING TOOL**

Designed for Import Car Brake Return Springs.  
 This tool removes and installs import brake return springs. Also works on domestic brakes that don't use an anchor pin. Engage brake spring in tool head. Turn handle to lock on spring. Expand spring to install or remove.



**44800 HEAVY-DUTY BRAKE SPRING TOOL**

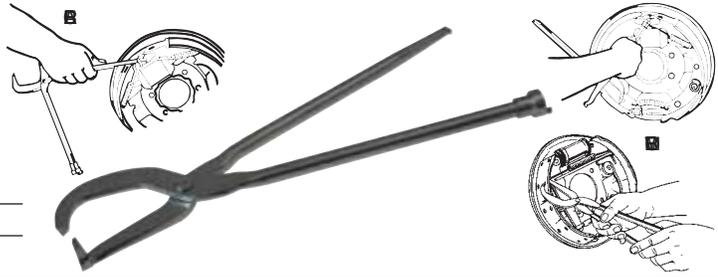
Designed for Larger Brake Springs.  
 The heavy-duty tool removes and installs larger brake return springs. Works on brakes with or without an anchor pin. Engage brake spring in tool head. Turn rear handle to lock on spring. Expand spring to install or remove. Front handle can be removed when working in tight places.



**11260 BRAKE SPRING PLIERS**

Double Ended Tool for Removing and Installing Brake Springs.

Use plier tips to stretch brake spring. Handle ends remove and install spring over anchor post.



**47400 BRAKE SPRING WASHER TOOL**

Fits Both Large and Small Washers.

Troublesome brake shoe retaining spring washers can now be easily removed and then reinstalled. Wide "window" allows better visibility to align the nail and washer slot.



**41100 BRAKE SPRING CLIP TOOL FOR FORD**

For Ford Contour, Focus and Mercury Mystique.

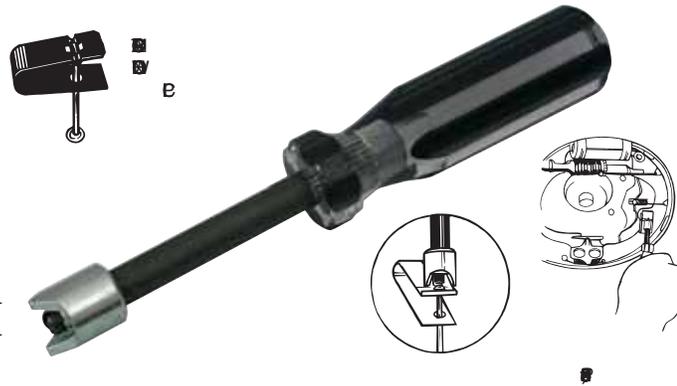
This tool easily removes and installs the difficult brake spring clip found on smaller Fords. Insert the tool tip into the spring clip. Then compress the spring with the tool and slide it off the brake pin. Reverse procedure to install.



**48400 IMPORT CAR BRAKE CLIP TOOL**

Designed for Import Cars with Brake Shoe Hold-down Clips.

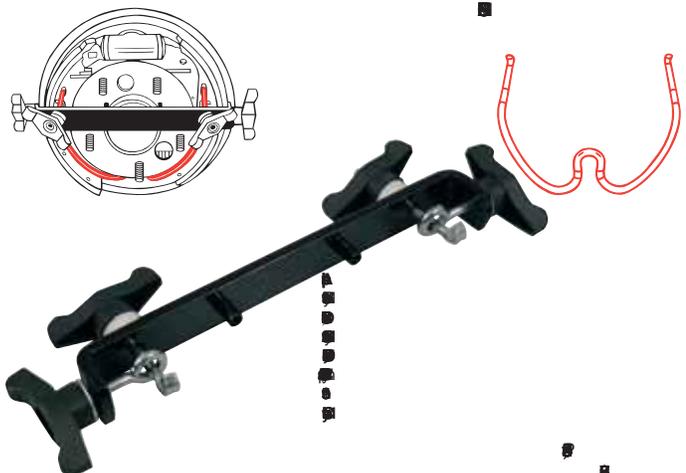
Removes and installs the brake clip and nail on brake shoes in seconds. Set tool head in the brake clip groove. Push tool to depress brake clip. Turn handle 1/4 turn to disengage clip from nail. Reverse to install.



**49900 GM SINGLE SPRING BRAKE TOOL**

Releases Tension on Large GM Single Brake Springs so Brakes can be Serviced.

Several larger, GM cars use the heavy single brake spring. The spring tension must be released to disassemble the brake to replace brake shoes, emergency brake cable, or service the brake cylinder. This tool engages the single brake spring and quickly releases the spring tension. The tool holds the spring in the open position so both hands are free to service the brake.



## 29150 UNIVERSAL BRAKE CALIPER BIT SET

Nine Sizes for Brake Caliper Bolt Applications.

Set includes four Torx® and five hex bits for removal and installation of brake caliper mounting bolts. Includes the following sizes: T-40, T-45, T-47, T-50, 1/4", 3/8", 7mm, 8mm and 10mm. All bits are 3/8" square drive. Handy sleeve keeps bits together in one place. All bits available individually.



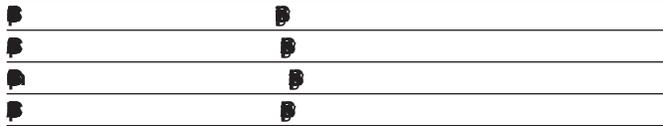
R	Bit
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## 12550 BRAKE CALIPER BIT SET

For Servicing Disc Brakes.

Three 3/8" square drive sockets with hex bits to remove and replace floating caliper mounting bolts. 3/8" and 8mm hex bits for GM and 1/4" hex bit for Ford.



## 33900 33920 7MM, 10MM HEX BRAKE CALIPER BITS

For Removing and Installing Disc Brake Calipers.

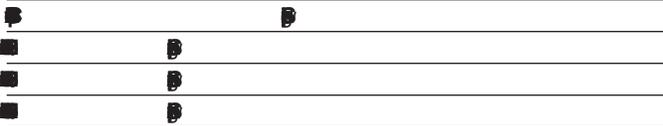
Hex bits remove and install floating caliper mounting bolts. 7mm hex is used for some Chrysler, Audi, Ford, Jeep, Lincoln and Volkswagen applications. 10mm hex is used for some Chevrolet and GMC van and truck applications. Use with 3/8" drive.



## 27740 BRAKE CALIPER TORX® BIT SET

T-40, T-45, T-50 Sizes for Servicing Disc Brakes.

Three 3/8" square drive Torx bits to fit GM and Ford brake caliper Torx bolts.



## 22070 BRAKE CYLINDER WRENCH

Removes the Wheel Cylinder on GM Cars.

Tool removes two E8 Torx® bolts that hold the wheel cylinder on the backing plate. Angled, offset design allows easy access in restricted areas. Reaching the two bolts is tough, they are hidden behind the shock assembly. Slip-on vinyl handle provides a good grip.



## 18800 BRAKE CYLINDER RETAINER REMOVER

For GM X and J Body Cars.

Expands and holds this special retainer so the brake cylinder may be removed. Insert the tool tips into the retainer ring and expand by turning the knob.



## 19200 BRAKE BLEEDING KIT

Simple to Use.

Everything needed to quickly bleed brakes with no mess. Plastic bottle collects discharged fluid. Three separate adapters fit the common bleeder screws.



## 10900 10950 BRAKE BLEEDER WRENCHES

For Bleeding Air From Brake Cylinders With Bleeder Screws.

Double ended tools are offset for easy access.

10900 for 5/16" or 3/8" bleeder screws.

10950 for 1/4" or 3/8" bleeder screws.



## 50700 BRAKE ADJUSTMENT TOOL

Speeds Star Wheel Adjusting.

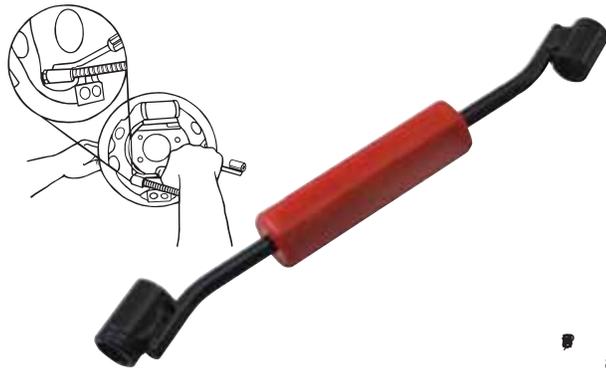
Insert tool through slot in backing plate. Different angle at each end adapts to various makes and models.



## 40800 PARKING BRAKE CABLE REMOVER

Makes Parking Brake Cable Removal Easy.

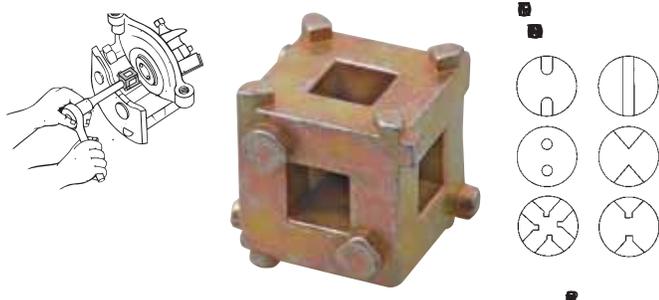
Double ended tool removes parking brake cables from the brake backing plate & the chassis mounting bracket. Cylindrical tool ends compress the prongs on the spring fastener for disassembly. Tool can be used with one hand so other hand can pull the cable. Use the smaller end for Ford Escort, Topaz & Tempo. Use the larger end for other vehicles.



## 28600 DISC BRAKE PISTON TOOL

Rotates Piston Back Into the Caliper When Replacing Pads.

A new side has been added and one side has been modified. This tool now fits more applications. Used on vehicles with four wheel disc brakes. Fits most domestic and some import applications. Push and turn tool to rotate piston into caliper. Use with 3/8" drive ratchet and extension.



**24400 DISC BRAKE PAD SPREADER**

For Installing Pads on Most Domestic and Import Cars and Light Trucks.

Makes changing pads an easy job. Tool compresses disc brake piston for easy pad installation.



**24300 SPEEDY BRAKE PAD SPREADER**

Compresses Brake Pistons In Seconds.

Squeeze the handle and the fast acting plunger compresses disc brake pistons in seconds. Makes brake pad replacement an easy job.



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**25750 DUAL PISTON BRAKE PAD SPREADER**

Compresses Dual Brake Pistons Simultaneously.

Squeeze the tool handle until the plunger contacts the inboard brake pad. Continue squeezing to compress both pistons. Makes dual piston pad replacement a simple job.

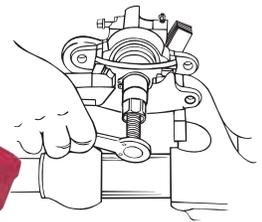


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**25000 REAR DISC BRAKE CALIPER TOOL**

For Rotating Pistons Back into the Caliper to Provide Clearance for New Pads.

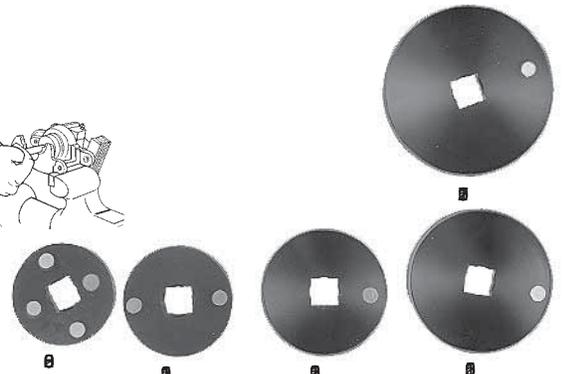
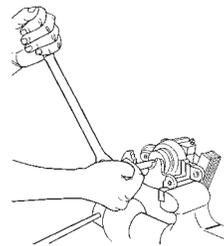
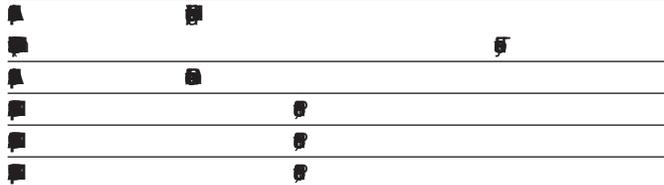
Includes 5 adapters (available individually) for use in both 2 and 4-wheel rear disc brake assemblies of most domestic and import cars. Tool may be used "on" or "off" the car. A real time saver that makes this tough job easy. Helps prevent damage to the piston and boot.



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**25080-25170 REAR DISC BRAKE CALIPER TOOL ADAPTERS**

Use with a ratchet and 3/8" drive extension. Press downward and turn to compress piston.



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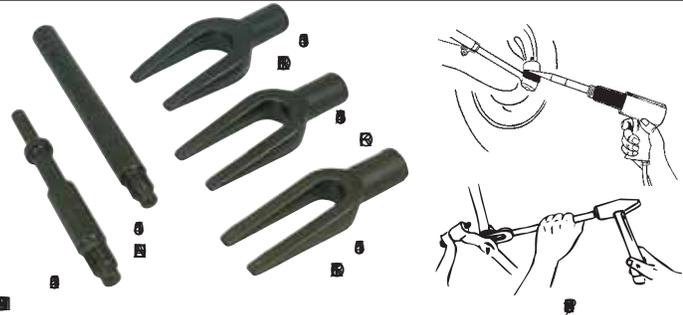
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## 41500 PICKLE FORK KIT

For Separating Ball Joints, Tie Rods, Pitman Arms and Other Uses.

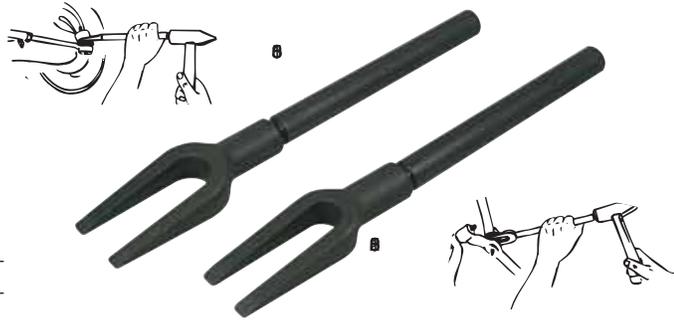
Six tools in one for exceptional versatility and value. Kit consists of three forks and two handles; one for hammering, the other for use with an air hammer (.401" shank). All forks are threaded to interchange with either handle. Forks are heavy-duty forgings, handles are heat-treated alloy steel.



## 18520 TIE ROD SEPARATOR 18530 BALL JOINT SEPARATOR

Heavy-Duty, Two-Piece Tools.

18520 is used to replace worn out tie rods and to separate shock absorber links. The tine opening is 21/32". 18530 is used to replace worn out ball joints and to remove CV drive shafts on FWD vehicles. The opening is 15/16".



## 60500 UNIVERSAL TIE ROD TOOL

Fits Most Domestic and Import Cars and Light Trucks with Split Tie Rod Sleeves.

Double-end feature makes 360 degree turns possible in confined spaces.



## 45750 INNER TIE ROD TOOL

Works on Tie Rods With Inaccessible Flats.

Many inner tie rod end sockets do not have a complete hex on the full length of the socket. The rounded socket ends prevent access to the wrench flats. This tool utilizes five crows feet to engage the wrench flats. Long socket slips over tie rod end and connects to the crows foot. The inner tie rod can be removed and installed without removing the rack.



## 43620 BALL JOINT / TRUCK BRAKE ANCHOR PIN / U-JOINT PRESS

Tough Tool Makes easy Work of 3 Different Jobs.

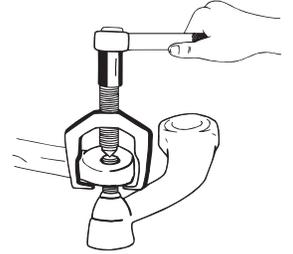
Removes and installs press fit type ball joints found on cars and light trucks. Tool makes removing and installing truck brake anchor pins fast and easy. Also works on u-joints to press joint from the drive shaft for replacement. Tool comes with detailed instructions and a heavy-duty plastic storage case.



## 41900 PITMAN ARM PULLER

Heavy Duty Puller Works on Most Cars and Trucks.

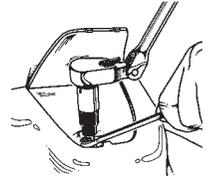
Designed to work on even the most stubborn Pitman arm pulling jobs. Position puller jaws over Pitman arm and turn center screw to free Pitman arm. Puller body is drop-forged and heat-treated for strength.



## 13400 SHOCK ABSORBER SOCKET

For X and J Body GM Cars.

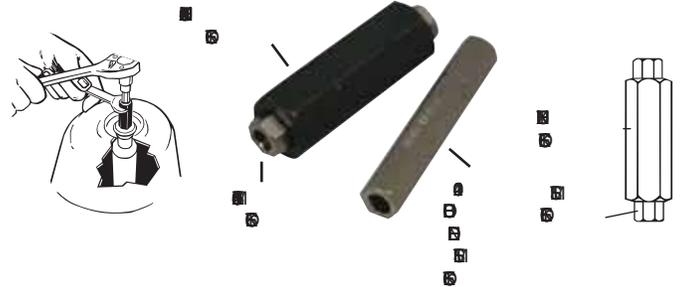
Fits 6.1mm x 8mm "Double D" stem found on many General Motors OEM shocks. 3/8" drive.



## 20400 SHOCK ABSORBER TOOL

For Removing and Installing Shock Nuts.

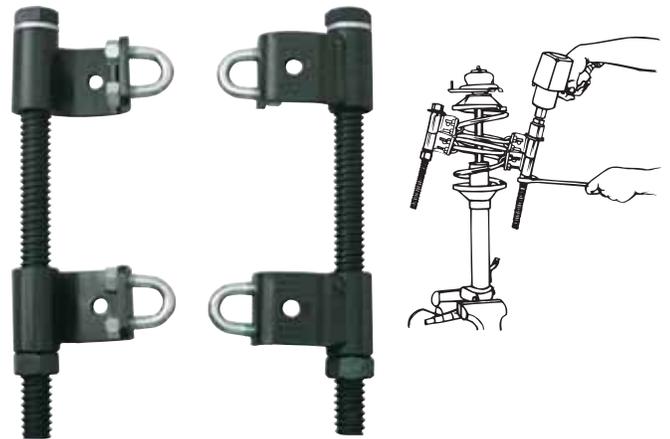
Fits most domestic models and some Ford OEM shock nuts. Place stem socket over shock stem. Hex nut socket fits the nut. Hold one, turn the other for removal.



## 62300 STRUT TOOL

Safe - Universal - Inexpensive.

This is an inexpensive, but super safe strut spring compressor. Fits all strut spring sizes, import and domestic. Heavy duty clamps and bolts securely hold spring during operation.



## 62750 GM10 STRUT TOOL

Removes GM10 Model MacPherson Strut Cartridge on the Car!

Tool completely removes and installs strut cartridge through the strut tower. Comes with handle, spanner wrench and T-50 Torx® bit to quickly remove and replace strut cartridge. Works on all GM10 models including: 1988-up Grand Prix, Buick Regal, Cutlass Supreme and 1990-up Chevrolet Lumina. Complete instructions with tool. Use with 1/2" square drive.



## 22200 4-WD SPINDLE PULLER

Fits All Common 4-WD Pick-up Spindles.

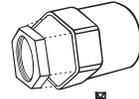
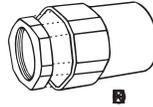
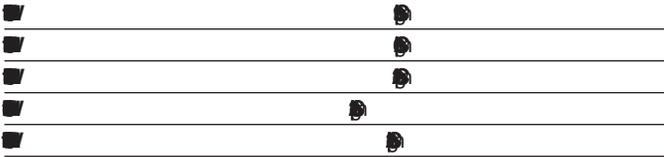
Stepped design fits 1 1/2", 1 5/8" and 2" spindles. Use with either a 1/2" - 20 or 5/8" - 18 slide hammer.



## 33150 33160 33170 33180 33190 WHEEL BEARING LOCK NUT SOCKETS

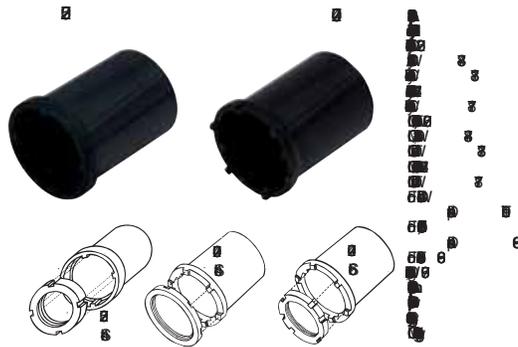
Remove and Install Five Popular Sizes of Wheel Bearing Lock Nuts.

Use with 1/2" drive to remove and install wheel bearing lock nuts on trucks and vans. Four of the sockets are for the rounded hex nuts. One is for the popular 2 1/2" hex nut.



## 27250 27400 4-WD WHEEL BEARING LOCK-NUT TOOLS

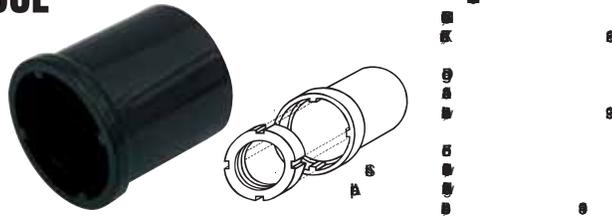
27250 for 4-slot applications. 27400 combination tool for both 4-slot and 6-slot applications. 1/2" drive. Not for use with impact wrench.



## 29900 4-WD BEARING LOCK-NUT TOOL

Full Tooth Engagement is Designed Not to Slip.

Fits 4-slot 2 1/2" lock rings used on common 4-WD trucks. Use with 1/2" drive. Not for use with impact wrench. See application chart for uses.



## 28000 RATCHETING LOCK NUT TOOL

Double-Ended for Both Sizes of Ratcheting Style Lock Nuts.

Two tools in one! Small end fits Ford 1986 to 1994 light trucks with Dana 44 front axle. Large end fits 1985 & newer Ford F150 - F350 trucks with the Dana 80 full floating rear axle. Press tool into lock nut and rotate to release the ratchet inside the lock nut. A torque wrench is used when installing. Use with 1/2" square drive.

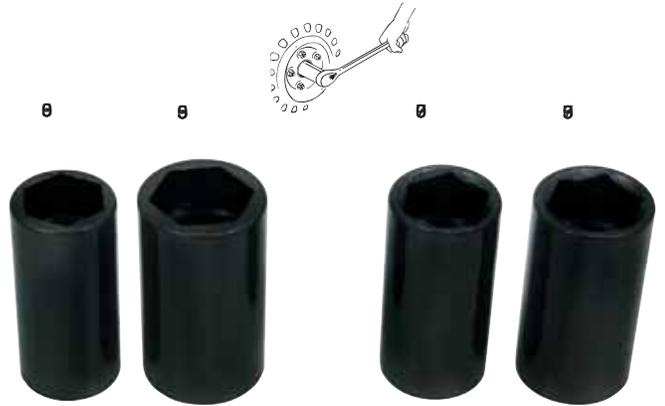
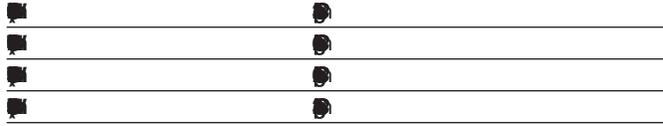


## 39500 39550 39700 39750

### FWD AXLE NUT SOCKETS

For All 30mm, 32mm, 34mm and 36mm Axle Nuts.

Durable, impact-grade material. Deep to fit over variable axle lengths. Works where standard sockets won't. Use 1/2" drive.



## 30800 CV BOOT CLAMP PLIERS

For Ear-Type Clamps.

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



## 30500 CV BOOT CLAMP PLIERS

For Earless-Type Clamps.

A sturdy, low-cost tool. Works on earless-type clamps including those found on GM inboard CV joints.



## 30950 CV JOINT BANDING TOOL

For All Band-It® and Band-It Jr.® Style Clamps.

Works on all CV joints using the Band-It or 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 the band is tightened.



## 58000 ENGINE HANGER

Supports Front Wheel Drive Engines.

The support bars can tilt up to 25 degrees to hold different FWD engines in position. Leg supports also pivot to fit different inner fender wheel well configurations. Use the J hooks, the chains with brackets or the brackets to connect to the engine. Capacity 750 pounds.



## 32500 32750 TAILPIPE EXPANDERS

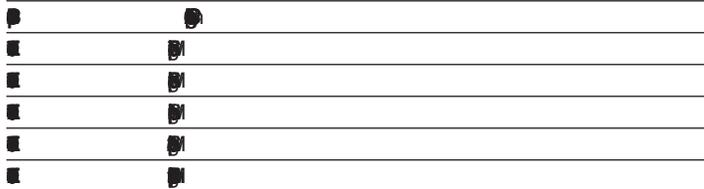
Removes clamp grooves and rounds out pipes. Practical, rugged tools that make easy work of a tough job. Two sizes fit most pipes: 32500 - 1 5/8" to 2 7/16" (41.3mm - 61.9mm) and the 32750 - 2 3/8" to 3 1/4" (60.3mm - 82.5mm).



## 34400 EXHAUST/TAILPIPE STRETCHER

Stretches All Pipe Including Stainless Steel.

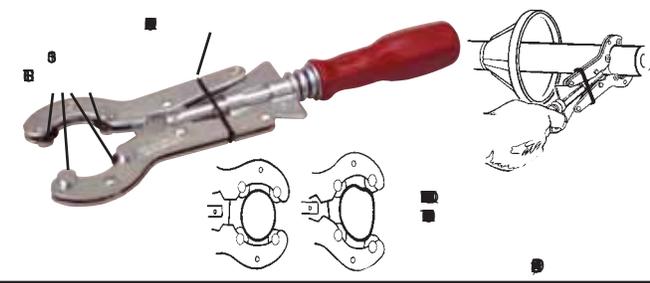
Use with an impact wrench to quickly stretch pipes. Two collet sets fit pipes from 1 5/8" to 2 7/16". Can be used on the car. The pipe stretcher is a convenient, inexpensive alternative to hydraulic pipe expanders. Additional collets (5) extend range to 4 1/4". (Not included in 34400 set.)



## 31500 EXHAUST/STRUT CUTOFF TOOL

Cuts Out-of-Round Pipes.

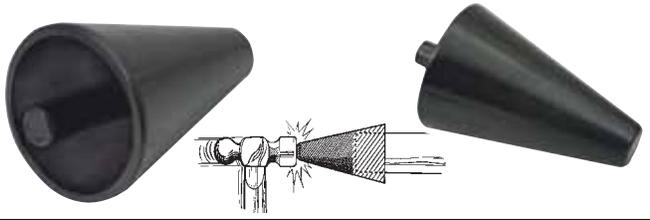
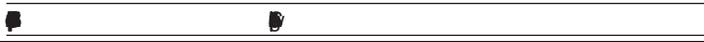
Four knife-edged cutting wheels cut quickly and cleanly. Can be operated with one hand. Less than 1/3 turn cuts all the way around the pipe. Unique design allows tool to "shift" to make out-of-round cut. Big 1 3/8" to 2 1/2" (34.9 - 63.5mm) range.



## 32000 PIPE END SHAPER

Rounds Pipes In or Out.

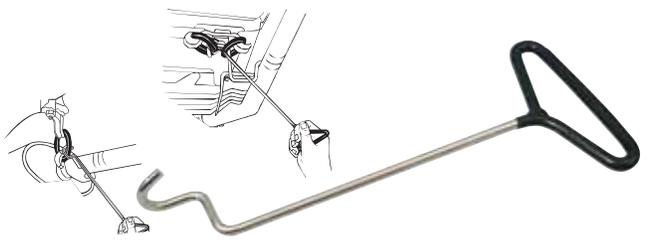
The Lisle 32000 rounds out exhaust pipes that are crushed or bent. Also reshapes pipes bent or flared out by placing big end over pipe. Range is 1 1/2" - 3 5/8" (38.1 - 92mm).



## 32100 EXHAUST "DONUT" STRETCHER

Removes and Installs Rubber Mounting Ring-Style Hangers Found on Import Cars.

Just place the hook of the tool through the rubber mounting ring. Then pull or push to stretch until you can remove ring from the hook on muffler, pipe or frame. Reverse procedure to install.



## 38350 EXHAUST REMOVAL PLIERS

Separates Exhaust Hanger Brackets From Rubber Supports.

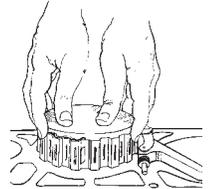
The exhaust plier works on all import and domestic car and truck exhaust systems that use the rubber hanger supports. Simply squeeze the plier handles to force the bracket from the rubber support.



## 21700 WRINKLE BAND RING COMPRESSOR

4 Ways Better!

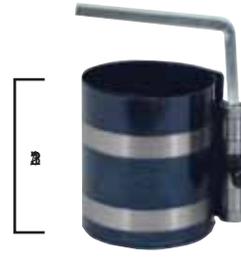
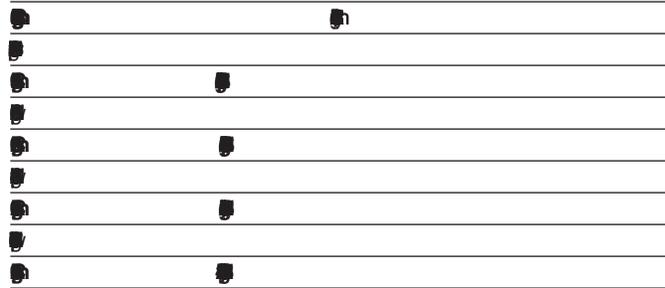
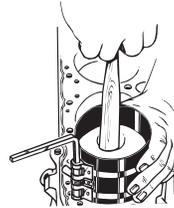
1. LOW FRICTION! Wrinkle Band cuts friction in half. Rings slide in easily. 2. WRINKLE BAND! Can't slip down into cylinder. 3. CAM OPERATED! Set adjustment screw just once for entire set of pistons. 4. FASTER! Insert a full set of pistons in half the time, with half the work!



## 18500 19500 20500 21000 21500 RING COMPRESSORS

Lisle Spring Clutch Eliminates Ratchet Problems.

The Lisle spring clutch assures a proper fit on the piston and a positive locking action.



## 19000 TAKE-APART RING COMPRESSOR

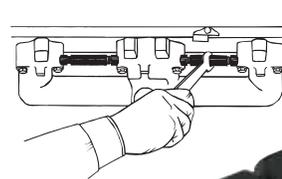
The 19000 combines Lisle spring clutch with take-apart feature necessary for Volkswagens, motorcycles, outboard motors, etc. Quick release makes it easy to remove from connecting rod. Can be used on conventional engines with narrow ring spacing.



## 13000 EXHAUST MANIFOLD SPREADER

For Reinstalling the Manifold on Small Block Chevrolets.

A simple way to expand a warped manifold so all bolt holes are accurately aligned. Helps prevent cross-threading of manifold bolts. Works best when used in pairs. Or install before removing manifold to prevent misalignment.



## 33500 PISTON RING INSTALLER

Save by Reducing Ring Breakage.

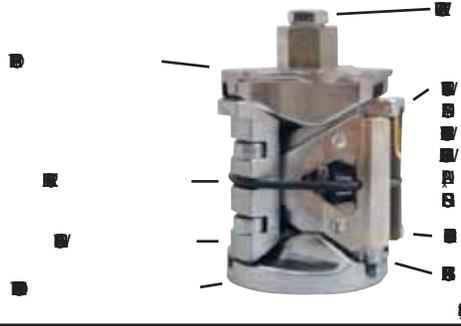
Tapered jaws to remove and install most passenger car and light truck rings from 3/64" to 1/4" (1.2 - 6.3mm).



### 36500 RIDGE REAMER

**Big Range Scraper Action.**

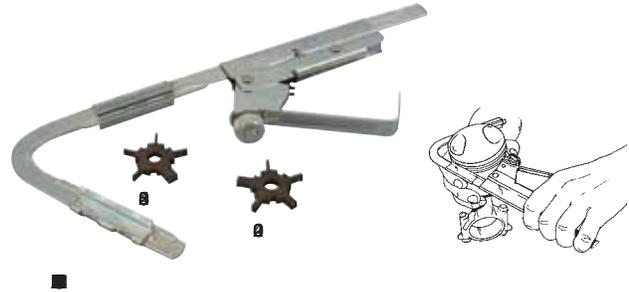
Rollers assure easy turning in cylinder. Exclusive stabilizer spring allows operator to take selective cut to minimize chatter. Spring-loaded carbide cutter follows contour of cylinder. Complete ridge removed in just a few easy turns. Offset jaw guides assure rigidity throughout the range.



### 24000 RING GROOVE CLEANER

**Comes with Two Easy-To-Set Cutter Wheels.**

Heavy coil spring holds cutter in groove for fast removal of carbon. Tool comes with standard 24020 cutter blade sizes: 5/64", 3/32", 1/8", 5/32", 3/16" and special 24350 cutter blade with sizes: 1.5mm, 1/16", 1.75mm, 2mm, and 1/4". Handles pistons 2 3/4" to 5" diameter. 24270 metric cutter wheel is available with 2mm, 2.5mm, 3mm, 4mm and 5mm.



### 16750 VALVE SPRING COMPRESSOR

**An "ON THE CAR" Tool.**

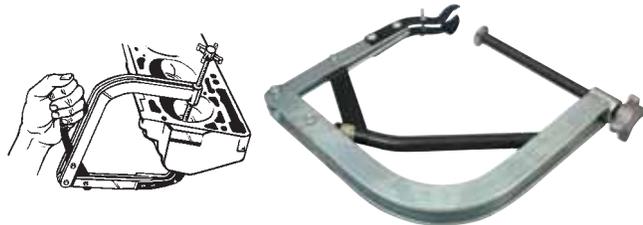
Makes compressing the spring and removing the keepers a simple job. No need to remove the head. Adjustable cam action. No need to readjust the tool after each spring.



### 44300 VALVE SPRING COMPRESSOR

**High Leverage Allows One-Hand Operation.**

Exceptionally strong, rigid frame, weighs only 6 lbs. Works with nearly all valve-in head and L-head engines as well as truck and tractor engines.



### 23300 SMALL ENGINE VALVE SPRING COMPRESSOR

**For Springs 3/4" to 1 1/16".**

Heavy-duty frame and screw for rigidity. Two jaw sizes. For Briggs and Stratton, Clinton, Harley-Davidson, etc.



### 36200 VALVE KEEPER REMOVER & INSTALLER

**Removes Valve Keepers On Overhead Valve Engines.**

Push or tap tool with a hammer to remove valve keepers. Magnetic tool body captures the keepers for quick removal and valve disassembly. To install, load keepers into the installer. Push or tap to install. Can be used on the car or a work bench.

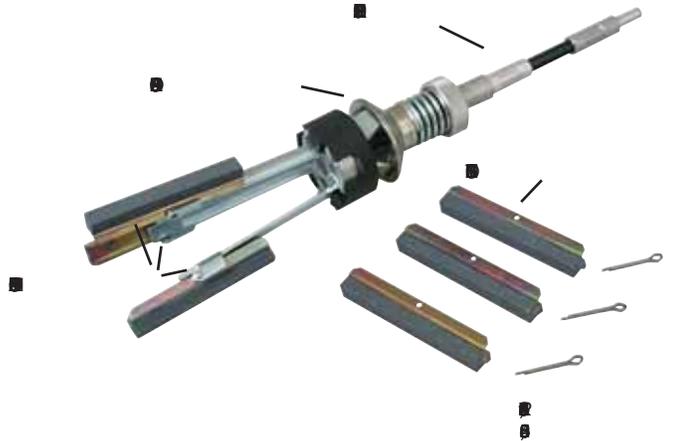


## 23500 STONE-TYPE GLAZE BREAKER

Full 2" to 7" Range (50.8 - 177.8mm).

Controlled pressure assures positive, adjustable contact through full range. Operates with any electric drill. Furnished with 3" long 220 grit stones, see below for other grits.

Adjustable stop collar permits quick selection of two range settings, from 2" to 4" and from 4" to 7". Stone arms are easily compressed to eliminate cylinder scratches.

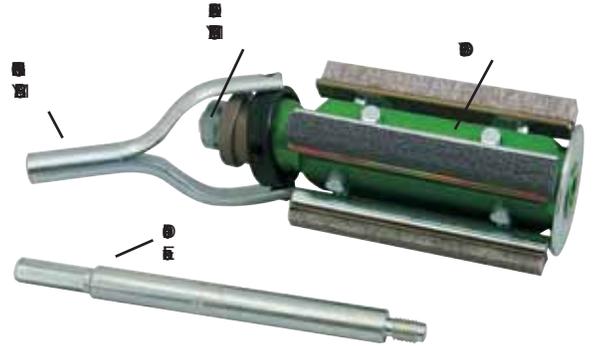
## 15000 ENGINE CYLINDER HONE

Best by Far - Yet Competitively Priced.

Micrometer head assures accuracy in feeding. Expands quickly to cylinder size with fast action rack and pinion. Bottom guard plate helps prevent stones from accidentally hitting the crankshaft. Universal joint action makes grinding of back cylinder easy. Clip-on stones and wipers are easily changed in a few seconds. Stones are available in five grits. Stone for Nikasil cylinders available. See chart. Use with heavy-duty 1/2" drill. Standard range 3" to 4 1/4". Big range (2 3/4" - 10 1/4") with additional rack sets and stone sets. Long 5" stones cut faster, more accurately.

Includes the following: Cylinder hone body with 1 set of 15540 standard range rack (range is 3" to 4 1/4"). 1 set each of 15500 coarse stones and 15510 medium stones, cleaning brush and dressing paddle in a sturdy storage case.

See chart for rack sets and stone and wiper sets available. All stone and wiper sets consist of two stones and two wipers. Order by part number. All are 5 inches long, and weigh 7 oz.




## 16000 SMALL CYLINDER HONE

For 1 3/4" to 2 3/4" (44.5 - 69.9mm) Cylinders.

Precision built for small cylinders. Stones are 3 1/2" long, assuring unusual accuracy. Stones cover full range, are easily changed, and available in four grits. Comes complete with 16410, 16420 and 16430 medium grit stone sets in sturdy storage case. Stones for Nikasil cylinders available. See chart.

See chart for rack sets and stone and wiper sets available. All stone and wiper sets consist of two stones and two wipers. Order by part number. All are 3 1/2 inches long, and weigh 3 oz.




## 65900 SPARK PLUG RETHREADING KIT FOR FORD

Replaces Stripped Spark Plug Threads On Ford V10, 4.6 And 5.4 Liter Engines.

This precision tool accurately replaces stripped Ford spark plug threads with new thread inserts. Works on the car without removing the engine head. This set includes a drill, tap, swedge tool, insert tool, 10 steel inserts, plus a vacuum adapter to remove shavings from the chamber. The tool set installs a new spark plug thread insert in the exact original position in approximately 20 minutes.

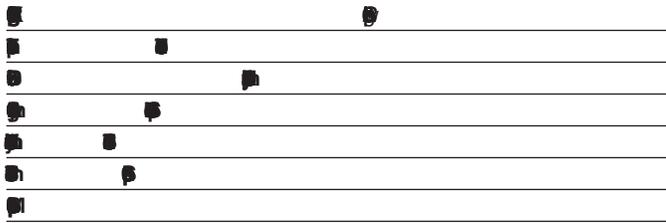
IMPORTANT: An inspection scope must be used to insure all shavings are removed from the combustion chamber. An inspection scope is not included in the 65900 set. Order a 66090 scope and 66100 45° mirror attachment if needed.



65900



65900



## 13750 HYDRAULIC LIFTER PULLER

Remove Stuck Hydraulic Valve Lifters.

Expanding collet firmly grips the tightest lifters. Special designed slide hammer jars the lifter loose.



## 21100 21200 VALVE LAPPERS

For Hand Lapping Valves.

Thick handles for easy lapping. 21100 has 1 1/8" and 1 3/8" diameter cups for larger valves. 21200 has 5/8" and 13/16" diameter cups for smaller valves.



## 62200 HEATER HOSE COUPLER REMOVER

Removes Broken Heater Hose Couplers.

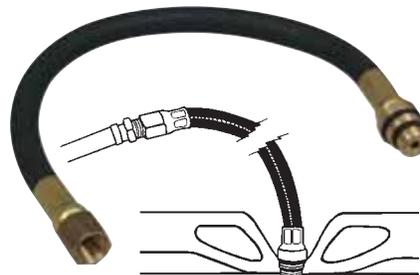
Drive the tool into the broken coupler. The splines cut their way into the coupler, allowing you to turn it out with a 5/8" socket or wrench.



## 19700 VALVE HOLDER

For Both 14mm & 18mm Spark Plug Threads.

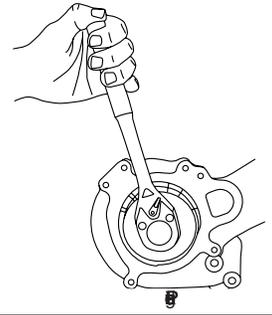
Commonly used when valve springs or valve stem seals are replaced. Air pressure helps prevent the valve from falling into the combustion chamber. Comes with two-step fitting for both 14mm & 18mm threads. Heavy duty 12" flexible hose allows easy access to spark plug hole and air supply. Thread fitting to spark plug hole and other end to air supply.



## 14440 WATER PUMP WRENCH FOR GM NORTHSTAR

Removes & Installs the Water Pump Assembly on GM Northstar 4.0L & 4.6L Engines.

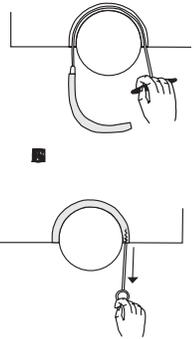
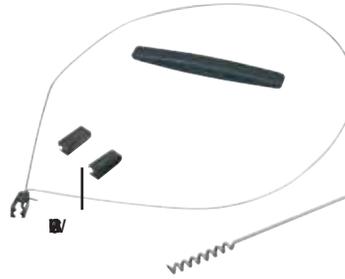
Turn the tool with a 1/2" drive ratchet or breaker bar. Angled teeth prevent the tool from slipping.



## 27000 SNEAKY PETE

Removes and Installs Upper Rear Main Seals Without Dropping Crankshaft.

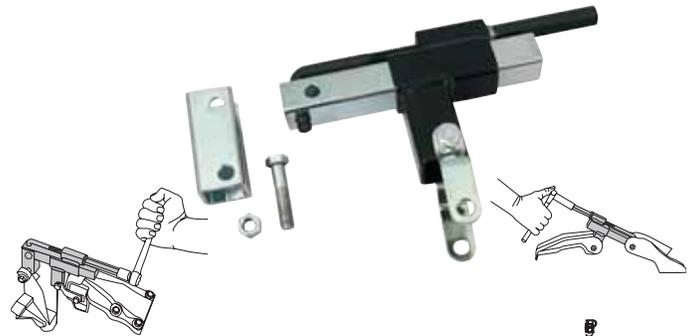
The Lisle 27000 includes everything needed to speed up a long, slow job. Cork screw puller makes it easy to remove old seal. To install new seal, 27000 includes a pulling wire with a removable T-handle and spring steel clip that grips the seal firmly as it is pulled into position. Two extra clips are furnished. Saves many times its cost every time it is used.



## 48260 ENGINE TILTER

Tilts and Holds GM FWD Transverse Mounted Engines for Repair.

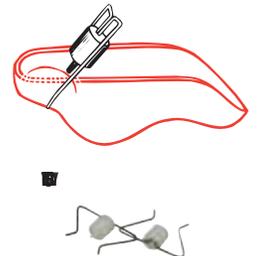
This tool attaches to the engine and engine mount to pull the engine forward. Makes servicing spark plugs, hoses, oxygen sensor and ignition components much easier. Holds the engine safely in place during service.



## 35500 ROCKER STOPPERS

Plug Oil Holes in Ball-Joint Type Rocker Arms.

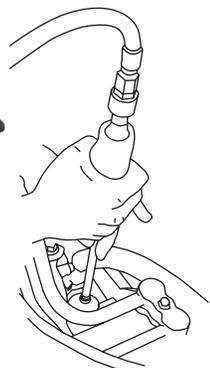
Spring steel clips with gaskets stop splashing, squirting hot oil while you adjust clearance. Designed for cars with hollow, oil-fed push rods.



## 22500 THERMOSTAT GASKET CLEANER

Cleans All Hard To Reach Gasket Surfaces.

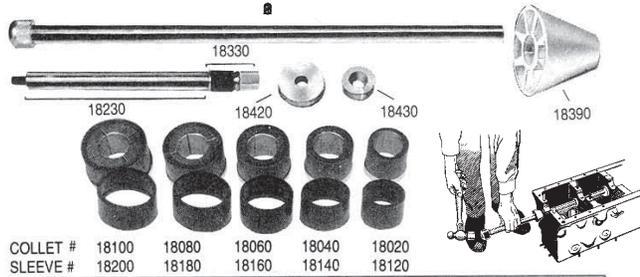
Use with a die grinder to quickly clean gasket surfaces on Dodge pickups, oil pans, water pumps and other inaccessible applications. The tool is equipped with a floating guide shaft so the user can steer the abrasive pad around the gasket surface. Includes two replaceable abrasive pads, plus interchangeable short shaft.



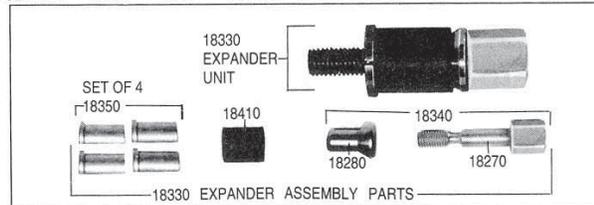
## 18000 UNIVERSAL CAMSHAFT BEARING TOOL

**Drives Camshaft Bearings Smoothly.**

Now, one complete low cost set that will remove or insert camshaft bearings in nearly all engines from compact cars to heavy trucks. Range of 1.125" to 2.69" (28.58 - 68.3mm). **EASY ON BEARINGS.** The expander has a neoprene sleeve over which the split driving collets are mounted and expanded to size. This tool has two sets of rubber sleeves supplied with it for each expanding collet. The brown sleeves are used when driving thin wall bearings (.065). The black sleeves should be used when driving thick wall bearings (.090). Instruction sheet T18000 provides complete, illustrated operating instructions and parts list.



COLLET #	18100	18080	18060	18040	18020
SLEEVE #	18200	18180	18160	18140	18120

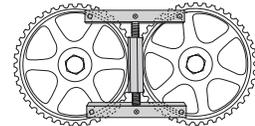



DRIVER RANGE TABLE


## 36880 DUAL OVERHEAD CAM (DOHC) LOCK TOOL

**Locks Camshaft Sprockets in Place During Belt / Chain Replacement.**

This versatile tool easily locks and holds both camshaft sprockets firmly in place. Unique design uses knurled pins to hold against the inside of the cam sprockets. The two parallel bars "float" which allows the knurled pins to align with the sprockets. Preserves the engine timing during belt or chain replacement.

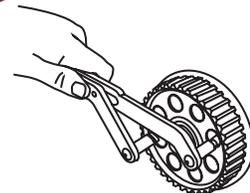


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## 38220 UNIVERSAL CAM ADJUSTER

**Adjusts to Fit Different Sized Cam Sprockets.**

This adjustable tool is designed to both hold and turn cam sprockets. The tool is needed to turn the cam sprockets to adjust the cam position. It can also be used to hold the cam sprocket in place when removing the cam bolt. It will work on all single and dual overhead cam sprockets with holes.



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## 25500 FLEXPATE WRENCH

**Works Where Access is Limited.**

Works on GM transverse mounted engines where spanner type tools won't fit. Adjustable grippers fit both wide and narrow rims. Works on all flexplates.



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## 23800 FLYWHEEL TURNER

Hold or Turn Flywheels and Flexplates on Most Vehicles.

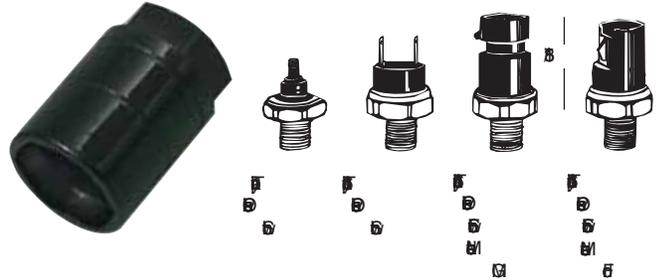
Use this special wrench to turn the flywheel and rotate the engine. Also holds the flywheel or flexplate when torquing the flywheel or harmonic balancer bolts. Folds for easy storage.



## 13200 OIL PRESSURE SWITCH SOCKET

Fits 1" and 1 1/16" Switches Up To 1 5/8" Long.

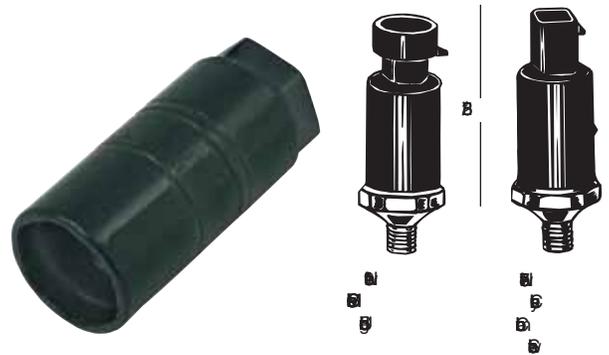
One socket with the correct length to fit 1" and 1 1/16" oil pressure switches (for vehicles equipped with warning lights). 1 7/8" overall height for clearance. Use with 3/8" drive or 1 1/8" hex.



## 13250 OIL PRESSURE SWITCH SOCKET

Fits 1 1/16" Switches Up To 2 5/8" Long, Found on GM and Chrysler Vehicles.

Fits 1 1/16" oil pressure sending unit (gauge type), found on most all '91 and newer GM vehicles. Also fits '87 and newer Chrysler vehicles with combination light and gauge oil pressure switches. Use with 3/8" drive or 1 1/8" hex.



## 13150 OIL PRESSURE SENDING UNIT SOCKET

Fits 1 3/16" Oil Pressure Sending Units.

For late-80s / mid-90s GM vehicles with oil pressure sending units (for vehicles equipped with gauges). This sending unit is approximately 4 1/4" long and requires an extra deep socket. Use with 3/8" drive or 3/4" external hex.



## 12100 OXYGEN SENSOR SOCKET

Removes and Installs Oxygen Sensors on Most Domestic and Some Imports.

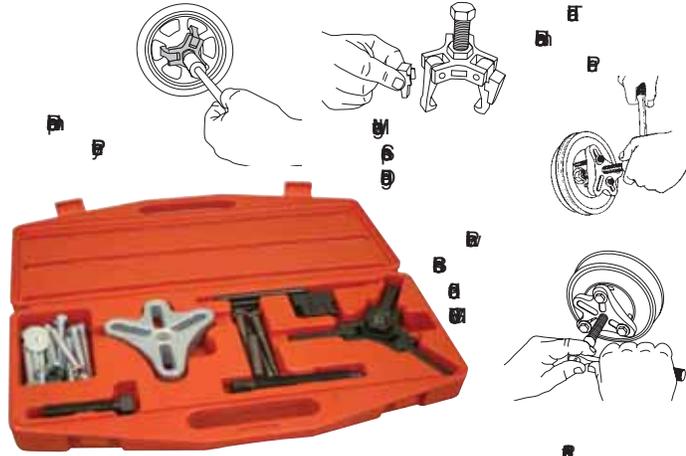
Special 7/8" socket with cutaway slot to provide clearance for wire harness. Provides adequate depth to fit over sensor. Heat-treated alloy steel. Use with 3/8" square drive or 1" wrench.



## 49650 HARMONIC BALANCER PULLER SET

This Kit Features The Puller Hardware And Special Pulling Screws To Remove Most All Automotive Harmonic Balancers.

The kit includes a standard harmonic balancer puller, pulling screws and adapters for 3300 and 3800 GM V6 engines, and a harmonic damper pulley puller for Chrysler, GM and Mitsubishi.



## 49500 HARMONIC DAMPER PULLEY PULLER

For Chrysler, GM and Mitsubishi.

The low profile design enables work in confined areas. Eliminates the need to remove the radiator to access the pulley. The tool is equipped with magnetic jaw spacers for 5.9 liter Dodge, which prevents puller jaws from slipping.



## 45300 HARMONIC BALANCER PULLER FOR GM

For GM 3300 And 3800 V6 Cylinder Engines.

The 45300 is equipped with the special bolts and adapters to pull the harmonic balancer cleanly without damage to the crank sensor. Order the 45350 Retrofit Kit to use with your Lisle 45500 Harmonic Balancer Puller.



Order 45350 Retrofit Kit to update the Lisle 45500. Contains Adapter and 3 Shoulder Bolts.



## 45500 HARMONIC BALANCER PULLER

Helps Stop Damage to Pulley and Shaft.

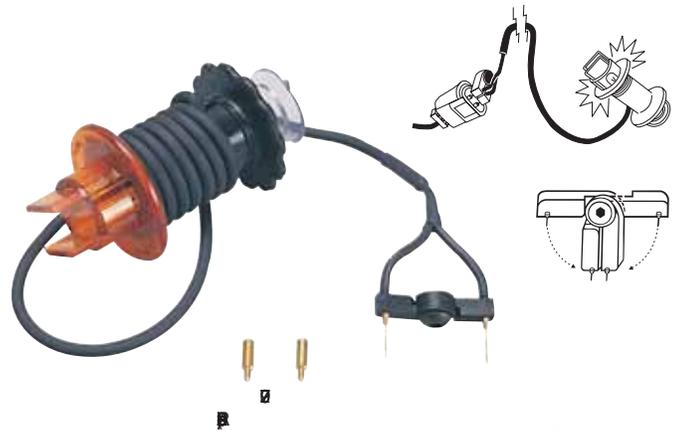
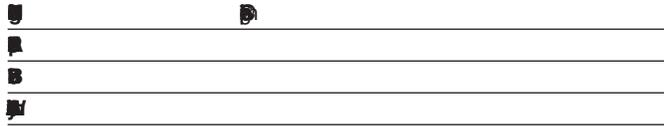
Designed to ease the operation of pulling the balancer pulley. It reduces damage to both the pulley and the shaft.



**27800 UNIVERSAL NOID LIGHT**

Adjustable Probes fit all Electronic Fuel Injection Systems.

Versatile tool tests throttle body injectors, ported fuel injectors and sequential central port injectors. One-person operation. Attach tool to the car body or windshield with suction cup. View the Noid Light from the front seat while cranking the ignition. A flashing light indicates normal pulses. No light or constant light indicates a problem. Two probe adapters screw on to form larger diameter probes.



**75500 COMBUSTION LEAK DETECTOR**

Quickly Pinpoints Combustion Leaks.

Detects bad head gaskets, cracked blocks, & cracked or warped heads. Fluid changes from blue to yellow when exposed to combustion gases from the radiator. Connect the hose to any vehicle vacuum line. Place tapered end of tool into radiator opening. With the engine running, the vehicle vacuum or the vacuum pump draws vapors through the indicating fluid for testing.



**75730 COMBUSTION LEAK DETECTOR FLUID FOR DIESEL**

Detects Combustion Leaks on Diesel Engines.

Use the diesel leak detector fluid with the Lisle 75500 Combustion Leak Detector. Indicating fluid changes from red to yellow when exposed to diesel combustion gases in the radiator. Contains 16 fluid oz.



No Leak Present (No Change in Fluid Color)



Leak Detected (Fluid Changes to Yellow Color)

**20250 COMPRESSION TESTER**

Quickly and Accurately Check Compression on Gasoline Engines.

Gauge registers 0 - 300 P.S.I. and 0 - 2100 kpa. Fits 14mm and 18mm thread sizes.



**20300 VACUUM GAUGE AND FUEL PUMP TESTER**

Easy reading gauge assures accurate vacuum and pressure check.

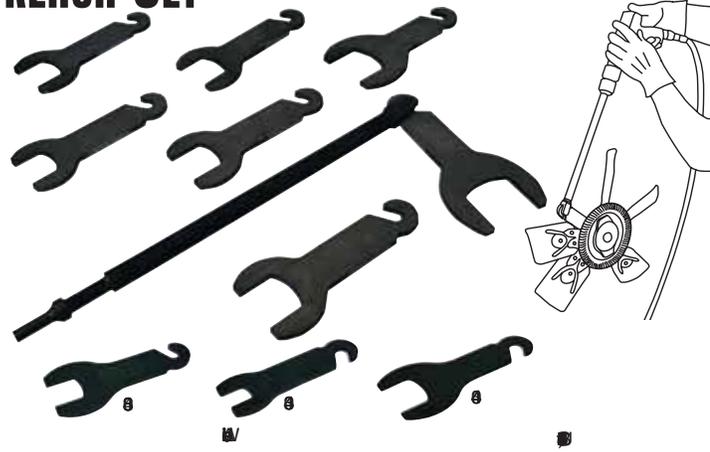


## 43300 PNEUMATIC FAN CLUTCH WRENCH SET

Quickly Removes & Installs Fan Clutch When Repairing The Water Pump Or Fan Clutch.

Faster and easier than conventional fan clutch wrenches. No holding wrench is necessary. The set includes 7 driving wrenches that fit Ford, GM & Chrysler. Driving wrench sizes include: 36mm, 1 1/2", 1 9/16", 41mm, 42mm, 1 7/8" & 2". Use with an air hammer.

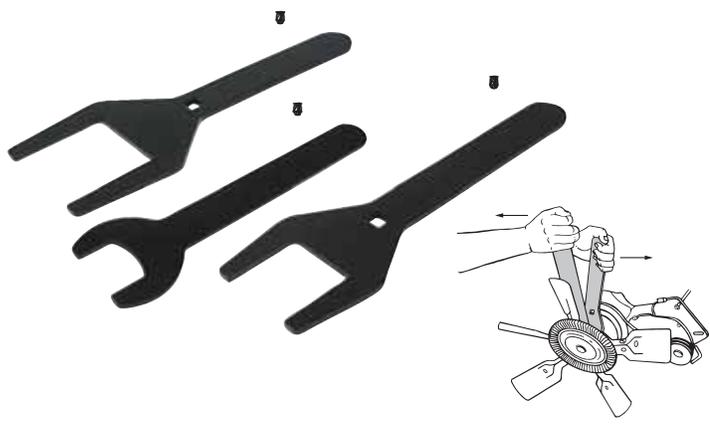
36mm		
1 1/2"		
1 9/16"	*	
41mm	*	
42mm	*	
1 7/8"		
2"	b	8



## 41730 FAN CLUTCH WRENCH SET FOR GM, CHRYSLER & JEEP

Set Includes Holding and Turning Wrenches.

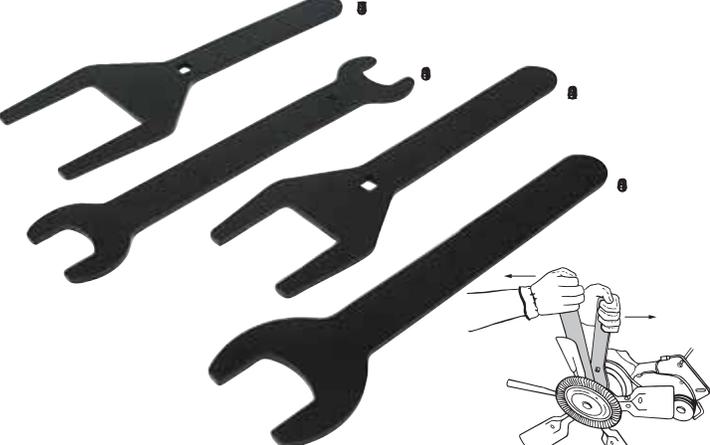
The set removes and installs GM, Chrysler & Jeep fan clutches. Includes 1 holding wrench & 2 turning wrenches. Applications: '96-'99 GM 4.3L V6, 5.0L & 5.7L V8; '88-'02 Dodge 5.9L Diesel, 3.9L V6, 5.2L & 5.9L V8, 8.0L V10; '93-'98 Jeep 5.2L V8

## 41800 FAN CLUTCH WRENCH SET FOR FORD

Removes Fan Clutch on Most All Fords.

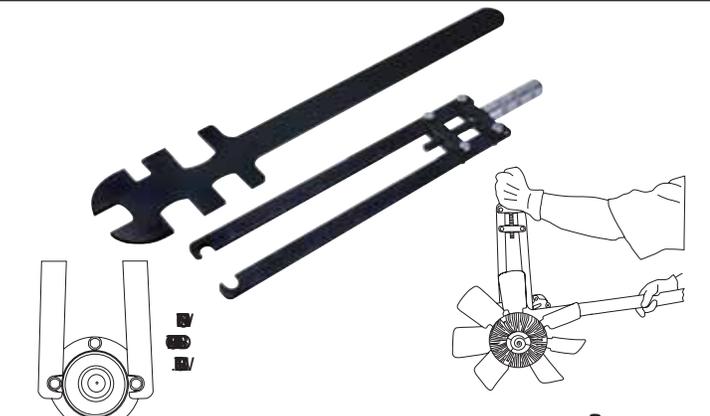
Removes & installs Ford fan clutches when repairing or replacing the water pump, timing chain or the fan clutch. Set includes two holding wrenches and two open-end wrenches. The double-ended wrench & small holding wrench work on 2.8, 2.9, 3.0, 4.0 & 4.9 liter engines. The larger open-end wrench & larger holding wrench fit 6.9 & 7.3 liter diesel engines. Wrenches are available individually.

## 42920 UNIVERSAL FAN CLUTCH WRENCH SET

Removes Fan Clutch on Most Models.

2-piece set removes & installs fan clutches. Includes a universal holding wrench & a universal turning wrench. Holding wrench is adjustable to fit bolts that attach pulley to the water pump. The turning wrench has the 5 common fan clutch nut sizes built into one tool: 7/8" (22 mm), 1 7/16" (36 mm), 1 9/16" (39 mm), 1 7/8" (47 mm) and 2" (50 mm).

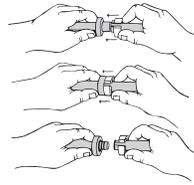



## 37000 AIR CONDITIONING / FUEL LINE DISCONNECT TOOL SET

Disconnects Air Conditioning and Quick Connect Fuel Lines.

Set disconnects the spring lock couplings on Ford & Chrysler air conditioning lines. Works on fuel line quick connect couplings found on GM, Ford, & Chrysler. The 5/16" size fits on push lock connectors on Ford radiators and transmission lines. Set includes six sizes: 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8".

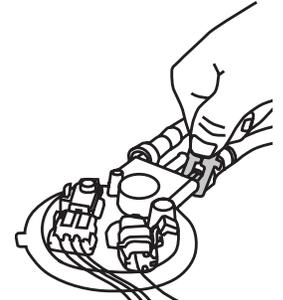
1/2"	5/8"
3/8"	3/4"
5/16"	7/8"
1/2"	5/8"
3/4"	7/8"
5/8"	3/4"
7/8"	1/2"



## 37500 FUEL MODULE DISCONNECT TOOL FOR GM

Disconnects the Fuel Module on 98 & Later GM Full Size Pickups, Suburban & Tahoe.

Two piece design allows access to the connectors. Slide the proper size end into the connector. Rotate and slide the other half in place. Now the module can be disconnected. Fits both 3/8" and 5/16" connector sizes. Will fit all other 3/8" and 5/16" applications. Clip together for convenient storage.



## 55700 MASTER FUEL INJECTION TEST SET

Test All Types of Fuel Injection Systems.

Checks fuel pressure on most Port Fuel Injection (PFI) and Throttle Body Injection (TBI) systems. Comes with adapters & gauges for checking many types of systems. Adapts to work with test port, end of hose & in-line connections. Tests GM, Ford, Chrysler, Honda/Acura, Toyota, Bosch CIS & L-Jetronic.



## 56100 MASTER FUEL INJECTION TEST SET AND CLEANER

One Complete Set For Cleaning and Testing.

Set checks fuel pressure on most Port Fuel Injection (PFI) & Throttle Body Injection (TBI) systems. Tests GM, Ford, Chrysler, Honda/Acura, Toyota, Bosch CIS & L-Jetronic. Also cleans injectors using pressurized cleaning cans (not included). For use with pressurized cleaning solvents with 7/16"- 28 or .418 x 20 threads.

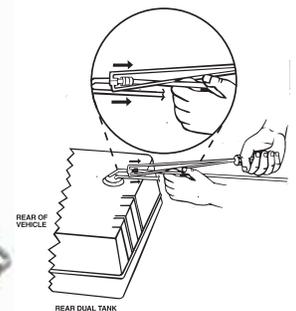


**Order 56090 Fuel Injection Cleaner Hose and Adapters to retrofit the Lisle 55700.**

## 36450 FUEL LINE DISCONNECT SET FOR FORD TRUCKS

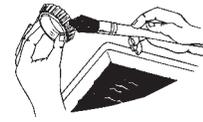
Quickly Disconnects Both Rear Fuel Tank Lines.

Tools fit 1992 to present F Series Ford trucks with 4.9, 5.0, 5.8 and 7.5 liter engines. Use the 3/8" tool for fuel supply line & 5/16" tool for return line. Both tools are 15" long allowing you to reach & disconnect the fuel lines without lowering the fuel tank. If lowering fuel tank is necessary, tools will prevent damage to fuel lines. Tools are available individually.



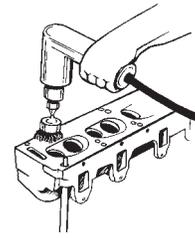
**14000 PARTS CLEANING BRUSH**

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



**14020 2 1/2" WIRE CUP BRUSH**

Removes weld scale, rust, paint and corrosion from metal surfaces. Brush also gives an excellent surface for painting. Made with .014 carbon steel wire and designed for light duty use with an electric drill. Maximum safe free speed is 4500 RPMs.



**14040 14060 1" WIRE END BRUSHES**

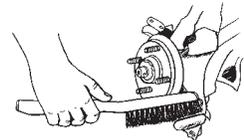
For Light to Heavy Duty Work.

Made with .020" industrial heat tempered wire. Use with portable electric and air tools. 20,000 RPM maximum safe free speed. 14040 knot end brush for heavy duty use. Excellent for baked on gaskets. 14060 crimped end brush for light to heavy work. Cleans dirt and carbon from metal surfaces.



**14160 14180 SCRATCH BRUSHES**

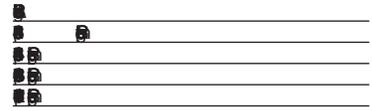
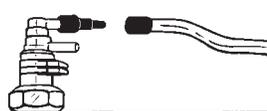
Removes rust, scale, paint and solder from metal surfaces. Also great for cleaning threads and files. 14160 has 5 1/2" of densely packed wire bristles and a hardwood handle. Overall length is 14". 14180 has 4 1/2" of densely packed wire bristles and a hardwood handle. Overall length 9 3/4".



**74600 VACUUM HOSE IDENTIFIERS**

Identifies Vacuum Hoses and Fittings for Proper Installation.

Use when disconnecting vacuum lines and other hoses from fittings. Color coded, 48-piece set fits all vacuum applications from 1/8" to 1/2".



## 75000 VACUUM PUMP

**Heavy Duty Pump that is Field Repairable.**

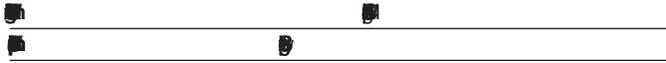
The pump is made of one-piece zinc die cast material for durability and improved performance. Checks all vacuum operated components on car. Pump comes with a detailed, illustrated manual covering vacuum testing. Worn o-rings, seals and valves can be replaced with the 75400 repair kit.



## 75200 VACUUM TESTING / BRAKE BLEEDING KIT

**Comes with 75000 Vacuum Pump & Complete Accessories for Vacuum Testing and Brake Bleeding.**

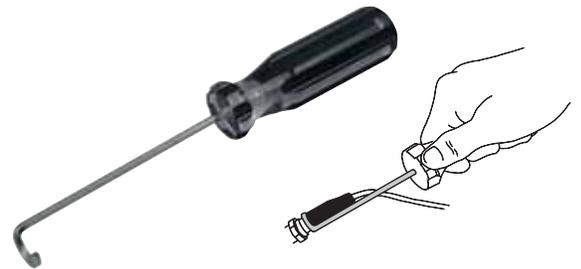
Pump is made of one-piece zinc die cast material for durability and improved performance. Order 75400 repair kit to replace worn out o-rings, seals and valves.



## 51250 SPARK PLUG WIRE PULLER

**Removes Spark Plug Wire Boots from Plugs.**

A simple, yet effective tool for disengaging spark plug boots. Tool performs well in difficult areas such as recessed and obstructed plugs. Square shaft prevents slipping. Thick plastic handle prevents electric shock & provides greater pulling power.



## 51500 SPARK PLUG WIRE PULLER

**Nylon Stops the Shocks and Beats the Heat and Burns.**

Helps you pull spark plug wires quickly, easily and without damage to the wire or rubber boots.



## 51750 ADJUSTABLE SPARK PLUG WIRE PULLER

**Jaws Adjust to Five Positions.**

Plier jaws adjust to five different positions allowing easier access to spark plug boots. Specially shaped, cushioned jaws grip the boot straight on or from the side. Plastic handle grips help prevent shock.



## 51600 SPARK PLUG WIRE PULLER

**Also Pulls Cartridge Fuses.**

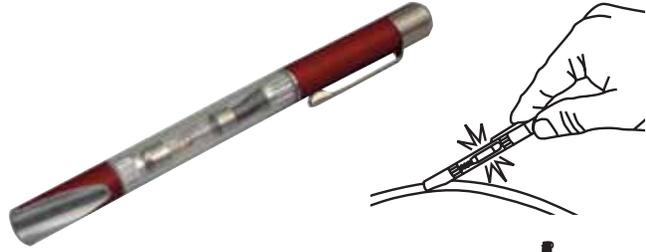
Plier jaws are made to pull spark plug boots from different angles. The double-ended tool also pulls cartridge fuses up to 1" in diameter. Made of glass-filled nylon for shock resistance and extra strength.



### 19380 SPARK INDICATOR

Tests Spark Plugs, Spark Plug Wires and Coils Without Puncturing the Wire.

With the engine running, place the grooved end of the aluminum tool over the plug wire. The bulb will flash to indicate spark.



### 26900 SPARK PLUG WIRE TESTER

Quickly Locate Faulty Plug Wires. No Shock Hazard.

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



### 20610 INLINE SPARK TESTER

Gives a Visual Check of the Ignition System.

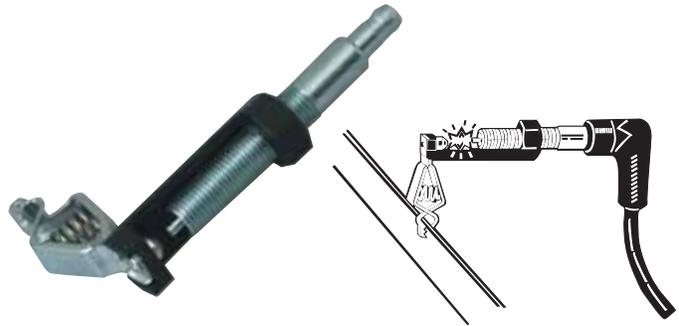
Quickly diagnose problems with all ignition systems. Connect the tool between the spark plug and the plug wire. The tool is double-ended to offer a straight boot and a 90° boot on one tool. With the engine running, the tool flashes a mirror image of ignition spark.



### 50850 IGNITION SPARK TESTER

Quickly Checks Spark at Plug Wire.

A handy tool to check ignition spark without removing the spark plug. The tool is specially calibrated to measure ignition voltage. Works on both standard and electronic ignition systems. Easy to use. Simply adjust calibration screw to proper gap size. Attach spark plug wire to end of tester. Clamp tester on engine to ground. Crank engine and check for spark.



### 20200 SPARK PLUG HOLE AND OXYGEN SENSOR THREAD CHASER

Double-Ended for Both 14mm & 18mm Threads.

Cleans threads in spark plug holes, also oxygen sensor holes. Use with 13/16" spark plug socket.



### 20750 REMOTE STARTER

Tough, Smooth-working, Reliable Switch.

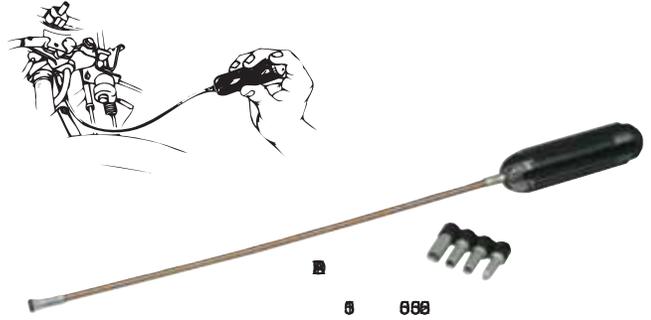
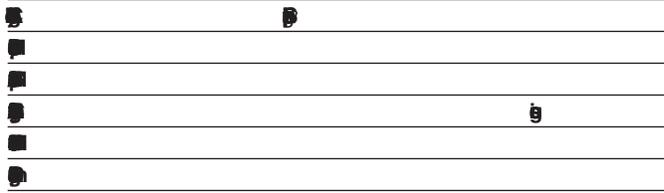
Features heavy gauge, rubber-covered copper wire. Depress button to jog or start the engine.



## 55250 CARBURETOR ADJUSTING TOOL

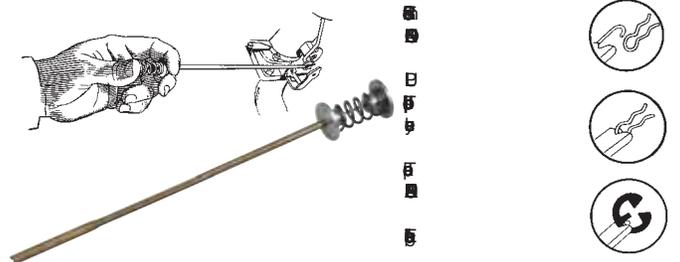
Adjust Idle / Mixture Screws on GM & Chrysler.

Heavy-duty flexible shaft for easy access. Four adapters conveniently store in the hollow handle.



## 46500 CARBURETOR PIN TOOL

For fast, sure removal and installation of carburetor linkage pins. Also for "E" clips and other small parts.



## 23400 TRANSMISSION / TRANSAXLE PLUGS

Stops Loss of Transmission Fluid.

Five stepped plugs fit both transmissions and transaxles on most import and domestic cars and pickups. Stepped design prevents slipping out. Adapter 23450 includes side gear centering for Ford Transaxles. Plugs cover a range of 1" - 2.180" (25.4mm - 55.37mm). Plugs may be purchased individually.



## 55600 CLUTCH PILOT BUSHING REMOVER

Uses Hydraulic Pressure to Remove Brass and Bronze Bushings.

Screw the self-tapping tip 2-3 threads into the brass or bronze bushing. Then pump out the bushing with a grease gun. Fits brass or bronze bushings from 1/2" to 3/4" I.D. Not for use on steel bearings. Made of case hardened steel.



## 55500 61750 CLUTCH ALIGNMENT TOOLS

Faster, Easier Replacement of Clutches.

Align clutch plates and pilot bearings accurately. 55500 shaft and bushings provide an accurate fit for eight pilot bearing sizes. Tapered cone handles the rest. 61750 has a shaft, ten pilot bushings and two plate alignment cones with graduated turned diameters for "automatic" fit of most metric clutch plates. A tapered cone to fit all others is provided.

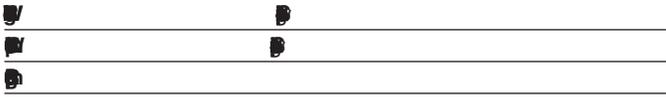






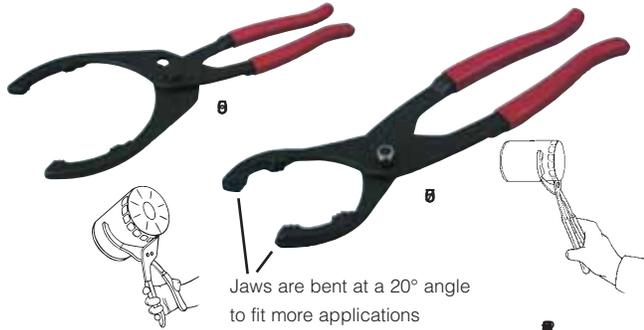
**63250 63600 FILTER WRENCHES**

63250 Range from 3 1/8" to 3 7/8".  
 63600 Range from 2 1/2" to 3 1/8".  
 Steel jaws grip filter without slipping. Works in tight spots from the front of the filter using 3/8" drive.



**50750 50950 OIL FILTER PLIERS**

Two Position, Slip Joint Handle for Greater Range. 50750 Range from 2 1/4" to 4".  
 50950 Range from 3 5/8" to 6"  
 Sure grip teeth prevent slipping. Cushioned handles provide comfort.



**53900 FILTER WRENCH**

Straight Handle Filter Wrench.  
 1" stainless steel band with special "teeth" grips tightly. Vinyl-covered handle provides firm, comfortable grip.



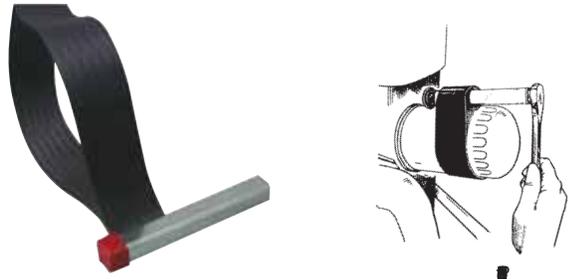
**53400 UNIVERSAL 3" OIL FILTER WRENCH**

Remove and Install All 3" Filters.  
 Works in the tightest spots. Stainless steel band, gripper teeth...won't slip. 3/8" square drive.



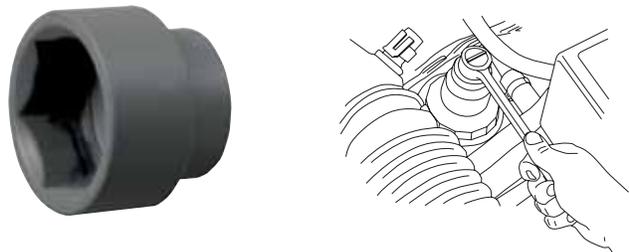
**63500 "BIG RANGE" FILTER WRENCH**

For Filters Up to 6" (152.4mm).  
 Adjusts quickly to fit any spin-on oil filter up to 6" diameter. Use with 1/2" drive or 3/4" wrench. Strong polypropylene belt.



**14700 OIL FILTER SOCKET FOR 2.2L GM**

Removes and installs oil filters on 2.2 liter GM Ecotec engines. The low profile 1 1/4" socket is specially designed for operating clearance. 3/8" drive. Not for use with an impact wrench.

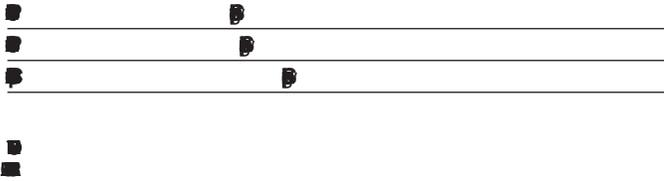




## 26550 27200 27740 TORX® BIT SETS

Sizes for All Automobile Applications, T-10 through T-60.

All Torx bits are made of heat-treated alloy steel. 26550 - 9 pc. set includes T-10 through T-50. Our 27200 - 12 pc. set includes the same bits as our 9 pc. set, plus the T-47, T-55 & T-60 bits. 27740 - 3 pc. set includes T-40, T-45, & T-50 sizes for servicing disc brakes fitting GM & Ford brake caliper Torx bolts. T-10 through T-30 are 1/4" drive. T-40 through T-55 are 3/8" drive. T-60 is 1/2" drive.



Bit Size	Part No.
T-10	0
T-15	0
T-20	0
T-25	0
T-30	0
T-40	0
T-45	0
T-50	0
T-47	0
T-55	0
T-60	0

## 37600 SUPER TORX® SET

20% Stronger than One-Piece Torx Bits.

This set includes nine of the most popular Torx sizes for automotive applications. The six smaller bits are 1/4" drive, and the three larger bits are 3/8" drive. The set includes T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 & T-50 in a convenient holder. The T-47, T-55 and T-60 bits are available individually.



Bit Size	Part No.	Part No.
T-10	0	0
T-15	0	0
T-20	0	0
T-25	0	0
T-27	0	0
T-30	0	0
T-40	0	0
T-45	0	0
T-50	0	0
T-47	0	0
T-55	0	0
T-60	0	0

## 26530 MASTER TAMPER RESISTANT TORX® BIT SET

Ten hex insert bits with two bit holders. Seven smallest bits are used with the 1/4" bit holder. Three largest bits use the 3/8" bit holder. All twelve pieces come in a convenient vinyl holder. Includes Torx® sizes T-10 thru T-55.



Bit Size	Part No.
T-10	0
T-15	0
T-20	0
T-25	0
T-30	0
T-40	0
T-45	0
T-50	0
T-55	0

## 26000 TAMPER RESISTANT TORX® BIT SET

Seven 1/4" Hex Insert Bits with 1/4" Drive Bit Holder. T-10 Through T-40.

Fits tamper-resistant Torx fasteners found on radio mountings, exterior mirrors, carburetors and other applications.



Bit Size	Part No.
T-10	0
T-15	0
T-20	0
T-25	0
T-30	0
T-40	0

## 26450 MASTER TORX® SET

34 Piece Set.

This master torx set organizes all your torx bits, tamper resistant torx bits and torx sockets in a low profile storage case with window.



Torx Bits	Tamper Resistant Torx Bits	Torx Sockets	
T	T	E	E
S	S	E	E
H	H	E	E
P	P	E	E
T	T	E	E

## 26280 26750 TORX® SOCKET SETS

For External Torx Bolts.

26280 includes 10 sizes, E5 through E20. The four smaller sizes are 1/4" drive; the next four sizes are 3/8" drive; the two largest sizes are 1/2" drive.

26750 has seven sizes E-6 thru E-16. The three smaller sizes are 1/4" drive; the four larger sizes are 3/8" drive.

Made of heat-treated alloy steel. Sockets are kept in a convenient vinyl holder.



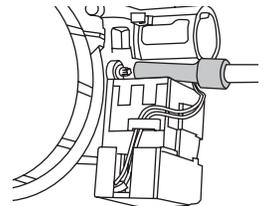
26280	26750
E5	E6
E6	E7
E7	E8
E8	E9
E9	E10
E10	E11
E11	E12
E12	E13
E13	E14
E14	E15
E15	E16
E16	
E17	
E18	
E19	
E20	

26280	26750
E5	E6
E6	E7
E7	E8
E8	E9
E9	E10
E10	E11
E11	E12
E12	E13
E13	E14
E14	E15
E15	E16
E16	
E17	
E18	
E19	
E20	

## 27490 E-4 TORX® SOCKET

For Electrical Ignition Switches On GM.

This extra deep socket is used on some General Motors ignition switches, 1/4" drive.



## 14750 MAGNETIC TORX® SCREWDRIVER SET

Bits Conveniently Store in Handle.

Bits held by a strong magnet. Includes four popular 1/4" hex insert Torx bits: T-15, T-20, T-25, T-30.



14750	Bits
T15	T15
T20	T20
T25	T25
T30	T30



## 14790 - 14820 TORX® INSERT BITS

Fits All 1/4" Hex Drive.

Available in four popular Torx sizes: T-15, T-20, T-25 & T-30. Made of heat-treated alloy steel. Can be used with Lisle 14750 Magnetic Torx Screwdriver. All bits are individually skin-packed.



14790 - 14820	Bits
T15	T15
T20	T20
T25	T25
T30	T30

**34100 "BALL" TORX® WRENCH SET**

For Hard-to-Reach Torx Fastener Applications.

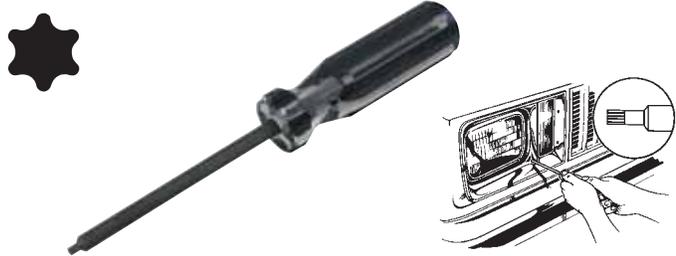
Set includes eight Torx sizes: T-15, T-20, T-25, T-27, T-30, T-40, T-45 and T-50 on our L-shaped speed wrench. Wrenches can be inserted in a Torx fastener up to a 17 1/2 degree angle without binding. Use the standard end of the wrench for breaking the fastener loose, and then quickly remove fastener with the ball end. Available individually.



**14200 HEADLIGHT TRIM SCREWDRIVER**

For Torx® T-15 Screws.

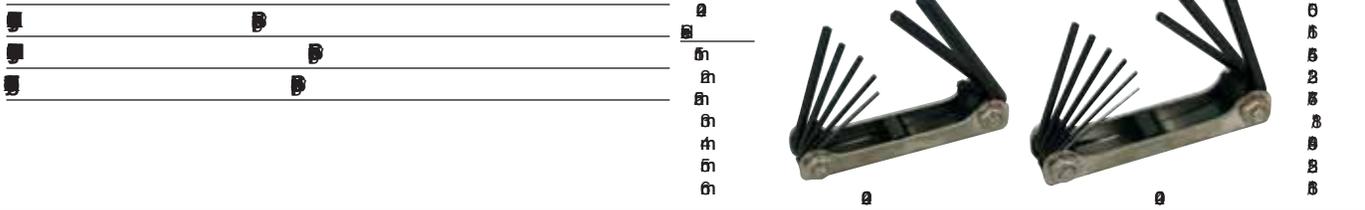
Special tool removes and installs Torx T-15 screws on GM headlight trim and other applications.



**42000 42020 42040 HEX / TORX® KEY SETS**

Keys are Heat Treated Alloy Steel.

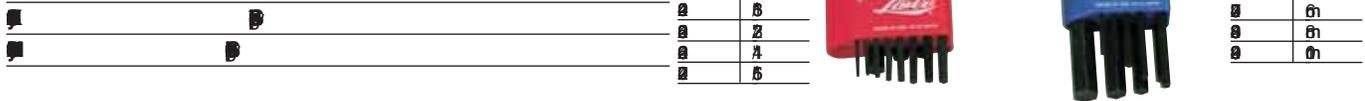
42000 Folding 9 Key Hex Set. Folded length is 3 1/2".  
 42020 Folding Metric 7 Key Hex Set. Folded length is 3 3/4".  
 42040 Folding Torx 7 Key Hex Set. Folded length is 4 1/4".



**42150 42300 HEX KEY SETS**

In a Handy Storage Case.

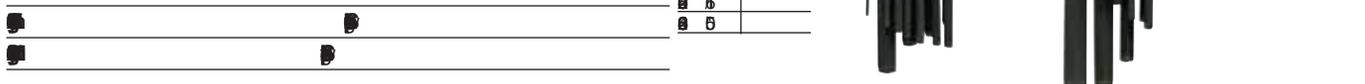
42150 Standard Set includes 12 heat-treated alloy steel hex keys. 42300 Metric Set includes 9 heat-treated alloy hex keys. Also available individually.



**42500 42650 LONG ARM HEX KEY SETS**

In a Handy Storage Case.

Allows for longer reach for deep socket Allen-type screws. Also increases torque. 42500 includes 12 fractional hex keys. 42650 includes 9 metric hex keys. Heat-treated alloy steel. Also available individually.



## 13600 33850 HEX BIT SETS

Seven Piece Sets. 3/8" Square Drive.

High strength, heat-treated alloy steel bits are securely broached into chrome plated sockets. No set screws to tighten! Bit sets store in a convenient vinyl storage holder.



ALL BITS ARE AVAILABLE INDIVIDUALLY SKIN-PACKED



0	
0	B
0	B
0	B
0	Z
0	B
0	B

0	
0	h
0	h
0	h
0	h
0	h
0	h

## 71000 STUD REMOVER & INSTALLER SET

Removes And Installs Studs Without Damage!

This 26 piece set is designed to remove and install studs with no thread damage to the stud. Set includes 13 installers and 13 removers to fit the most common automotive stud sizes. Can be used with an impact wrench. The set comes in a low profile plastic storage case with window.



## INSERT BITS

For Both 1/4" and 5/16" Hex Drive.

Hex drive insert bits for Phillips, Torx®, and straight slot applications. All bits are available individually skin-packed. See application charts for sizes and drive.



0	B	
0	B	
0	B	
0	B	
0	B	



0	B	
0	B	
0	B	
0	B	



0	B	
0	B	
0	B	
0	B	

## 44900 LOCK RING PLIERS

For Removing and Installing All Types of Lock Rings.

Spreads lock rings commonly found on transmissions, master cylinders, brakes and other applications. Specially designed jaws are knurled on the end to prevent slipping.



## 29200 30200 HAND IMPACT TOOL SETS

Loosens Rusted, Frozen Nuts, Bolts and Screws. Unique design delivers over 200 ft. lbs. of "Shock Torque." Can be reversed to tighten. Can also be used with impact sockets!

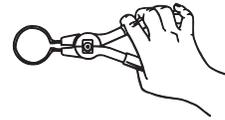
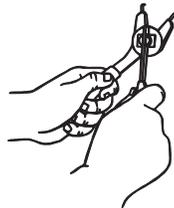




## 49200 HEAVY DUTY INTERNAL / EXTERNAL SNAP RING PLIERS

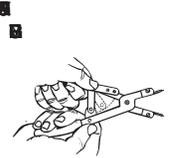
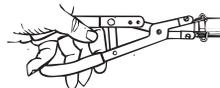
Reversible Action for Internal and External Applications.

The heavy duty plier construction and larger tips are designed for larger snap rings. The tool quickly converts from internal to external use by pivoting the handles. Tough tool easily compresses internal rings and expands external rings. Conical tip ends prevent the snap ring from slipping off the tips. Ten tip sets in a handy plastic pouch are included to fit a wide range of snap ring sizes. Tips are easily interchanged by turning a set screw, wrench included.


## 46000 COMBINATION INTERNAL / EXTERNAL SNAP RING PLIERS

A handy combination tool for internal and external snap rings. Compresses internal rings in one position. Move the quick-change reversing lever to expand external rings. Comes with four sets of tips in a plastic box.


## 64650 IGNITION MODULE WRENCH FOR FORD

For 7/32" hex retaining bolts on Ford Ignition Module. May be used with 1/2" wrench.

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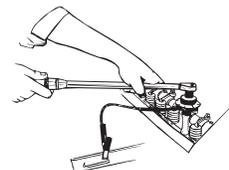


## 28100 TORQUE ANGLE METER

For All Torque-to-Yield Fastener Applications.

Commonly used for tightening head bolts and other bolts where a torque angle is required. Use with 1/2" drive.

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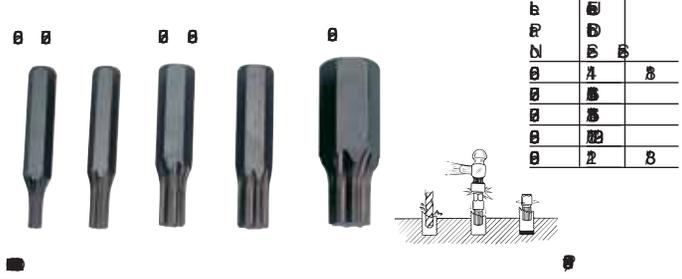
## 64250 RIGHT ANGLE RATCHETING SCREWDRIVER

Use where a screwdriver won't fit. Makes it easy to remove and install molding around fender wells and other tight places. Place handle over the bit and turn. Reverse handle on bit to tighten. Can also be used with 1/4" round shaft screwdriver. Ratcheting action with infinite settings. Includes straight slot and #2 Phillips bit assemblies.



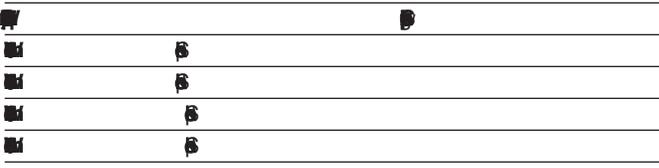
## 62900 SUPER OUT SET

A SUPER STRONG extractor set made of a special hardened, shock-resistant tool steel. Works on both left and right hand threads. Super Outs cut their way STRAIGHT into bolts, eliminating wedging or further tightening of frozen bolts and screws. Five extractor sizes extract 1/4" to 1/2" and larger bolts and screws.



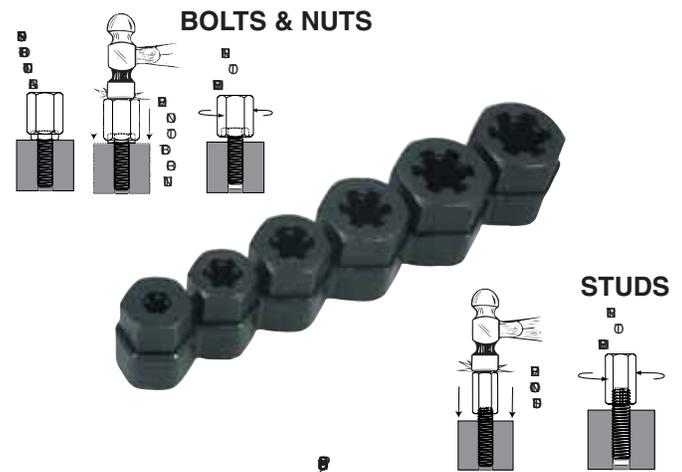
## 60750 12 POINT BIT SET

Triple Square (12 point) bits to fit 6, 8, 10 and 12mm sizes; all on 1/2" hex drives. Fits some head bolts, retaining bolts, disc brake calipers and other applications.



## 19250 STUCK BOLT, NUT, AND STUD REMOVER SET

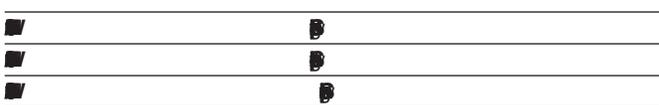
The 6 piece set removes standard and metric bolts, nuts and studs from 1/4" to 9/16" (6mm to 14mm). Drive the proper size remover over the bolt head, nut or stud. The remover spline cuts into the bolt head or threads for a sure grip.



## 25250 25300 25350 FLARE NUT WRENCHES

Prevents Damage to Flare Nuts and Other Soft Metal Fittings.

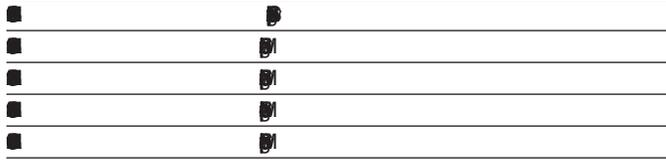
- 25250 3/8" x 7/16" flare nut wrench.
- 25300 1/2" x 9/16" flare nut wrench.
- 25350 5/8" x 11/16" flare nut wrench.



## 29650 ANTENNA NUT SOCKET SET

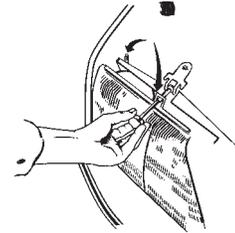
For Removing or Replacing Antennas

Four double-ended sockets fit eight common domestic & import antenna nuts. The smaller three sockets are 7/8" hex & the larger socket is 1 1/4" hex. Sockets are made of heat-treated alloy steel for strength. Complete applications are listed on the card. Sockets are also available individually.



## 14400 HEADLIGHT ADJUSTER FOR FORD

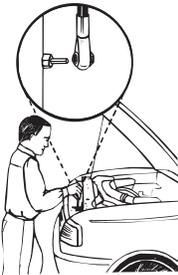
Fits 4mm hex headlight adjusting bolts on Ford, Mercury and Lincoln cars and pickups with aerodynamic headlights.



## 14540 HEADLIGHT ADJUSTING RATCHET FOR FORD

Works on Ford Aerodynamic Headlights with Rear Mounted Adjusters.

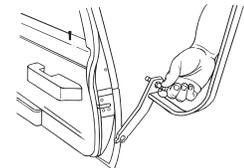
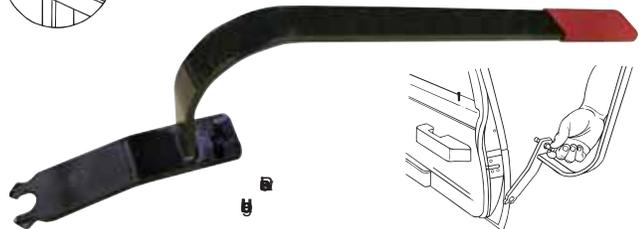
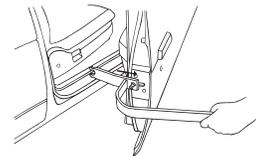
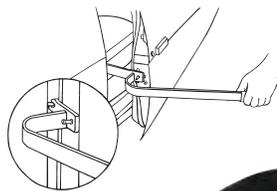
Tool is used to adjust aerodynamic headlights with rear mounted adjusters on Ford vehicles. These adjusters are not easily accessible and require this tool for adjusting. The extra long handle allows easy access to hard-to-reach spaces. Tool has a 4mm hex with a roller clutch for infinite settings.



## 65800 DOOR ADJUSTER

Adjusts Door Hinges on Most All Cars and Light Trucks.

Will adjust doors with either bolted or welded hinges. Simply slide pin end of tool into door latch and close door until tool engages door striker. Now raise or lower tool handle to align door. Comes with two-headed pin adapter for both large and small latches. Specially designed handle for optimum leverage, makes adjustment fast and easy.



## 63900 WINDOW HOLDER

Holds Door Glass While Working on Window Regulator.

Works on all cars and trucks with a top door frame. Simply loop cable over door frame and attach suction cups to each side of glass. Window glass is then securely held above the door while work is performed.



## 47000 WINDSHIELD LOCKING STRIP TOOL

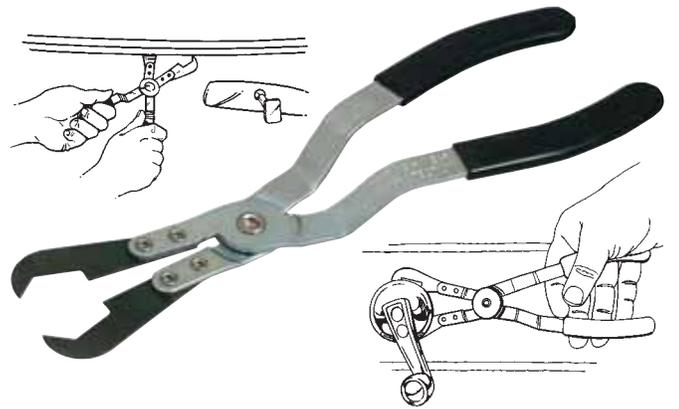
Two Double-Ended Tips to Fit Most All Applications.

Unique design allows tip to swivel 90 degrees in either direction to work where others won't. Just select the tip with opening that most closely fits locking strip, and then feed locking strip into eyelet. Tip swivels in 90° in either direction.



## 35200 WINDSHIELD MOLDING / DOOR HANDLE CLIP PLIERS

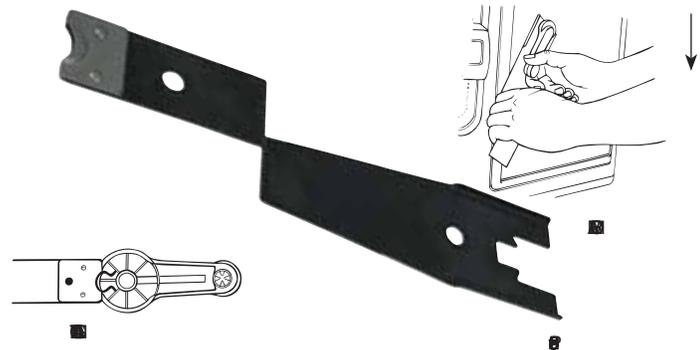
For removing most windshield molding clips and door handle clips. Releases clips to remove chrome molding on most windshields and rear glass. Offset handle permits easy access to molding clips. Slips under door handle without damage to panel material.



## 18600 WINDOW AND DOOR CLIP REMOVER / INSTALLER

Removes and Installs Door Handle and Window Crank Clips.

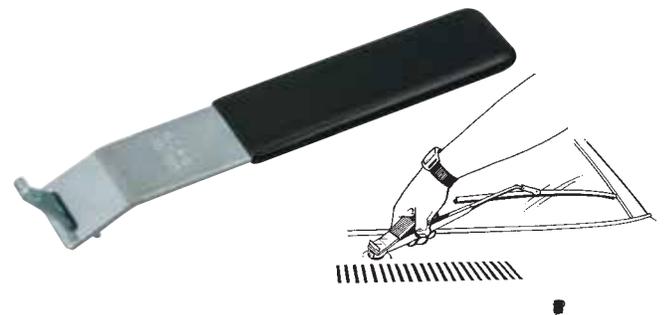
Works on GM, Ford and others using the common "C" type clip. Really fast and easy. Helps prevent damage to door panel upholstery. Opposite end firmly holds clip for easy installation.



## 65750 WINDSHIELD WIPER ARM REMOVER

Makes Wiper Arm Removal and Replacement an Easy Job.

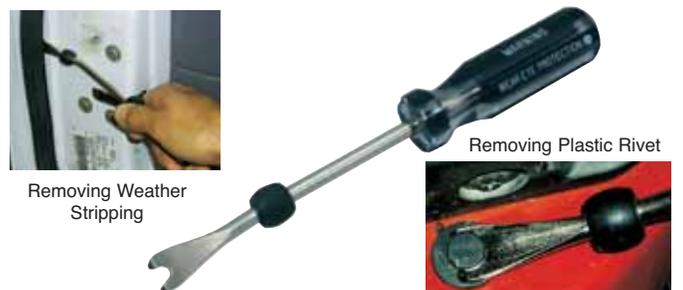
Easily removes wiper arms without damage to car finish.



## 35260 PLASTIC FASTENER REMOVER

Removes Plastic Hold-Down Fasteners.

This tool quickly removes various types of plastic fasteners that hold on weather stripping, radiator shrouds, fender linings, air dams and other plastic or rubber parts. The tool is equipped with a sliding urethane button for use when extra leverage is necessary.



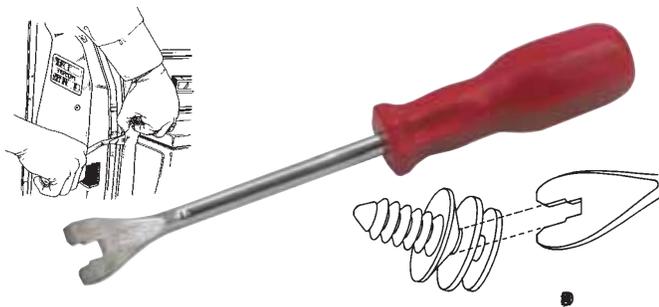
Removing Weather Stripping

Removing Plastic Rivet

**35400 DOOR UPHOLSTERY REMOVER**

For Plastic Fasteners.

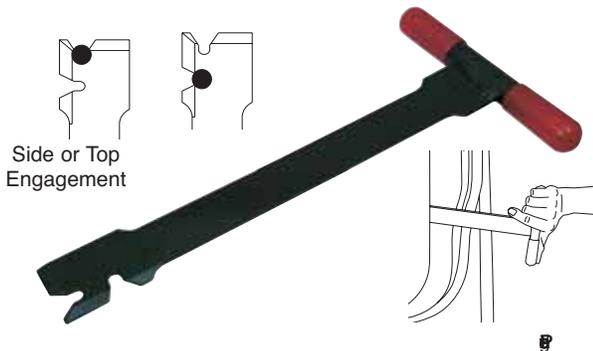
Place the tool under the edge of the door panel and insert into fastener as far as possible...then simply pry up. Rugged tool with a large comfortable handle.



**35060 TRIM PANEL REMOVER**

Removes Hard-To-Reach Interior Door Panels and Headliner Clips.

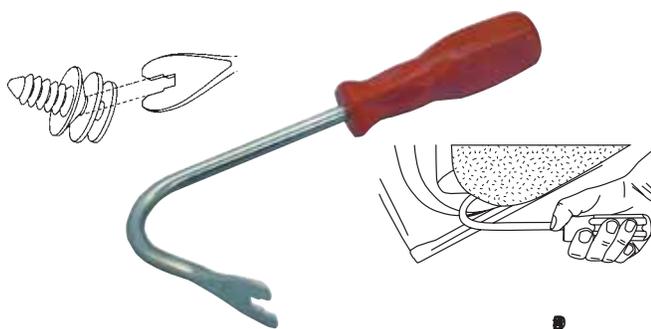
Inaccessible push-in clips are now easy to remove. Slide the tool between the panel and the door. Engage the plastic clip in the grooved head. Twist the handle to pop the clip loose.



**35350 DOOR PANEL REMOVER**

Removes Door Panel Fasteners, Even In Tight Spaces.

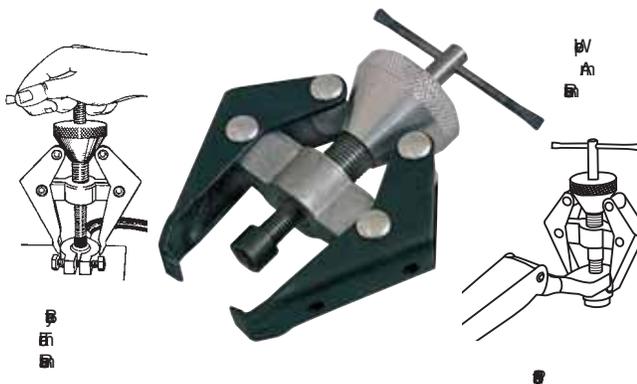
The bent handle design allows use where space is limited, and provides extra prying force. The unique, square cutout in the tool tip provides a no-slip grip, even on fasteners with small ears.



**54150 BATTERY TERMINAL & WIPER ARM PULLER**

Removes Battery Terminals and Bolted on Wiper Arms.

A dual-purpose puller. Easily removes stuck battery terminals. Tighten knurled cone to force jaws under the cable clamp. Turn center screw to lift clamp off terminal. Also removes bolted on windshield wiper arms that fit over a tapered spline. The puller screw pad is designed to fit the top of the spline post for easy pulling.



**57850 BATTERY CARRIER**

Lift and Carry Batteries Safely.

Sturdy steel jaws securely hold batteries. Spring-action handle turns lifting power into battery gripping pressure. Form-fitting handle provides a solid gripping surface for your hand. Carrier works on nearly all batteries, from motorcycles to boats. Saw-tooth jaw tips provide no-slip battery gripping power. Carrier grips the battery just below the top lip for good balance. A heavy-duty tool that is built to last.



## 11120 BATTERY BRUSH

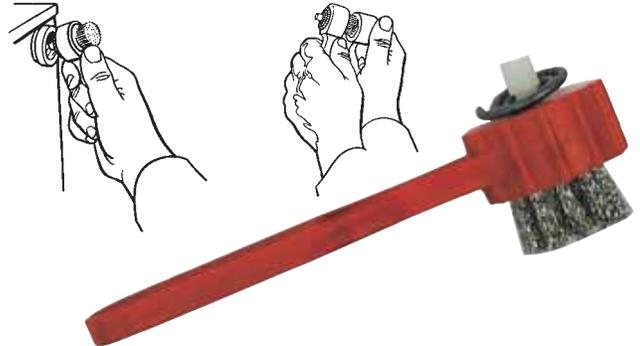
Cleans dirt and corrosion from battery terminals and cable clamps. The external brush cleans cable clamps and internal brush cleans terminal posts. Case is made of high impact plastic that will not weaken in cleaning solutions.



## 11400 SIDE TERMINAL BATTERY CLEANER

*A Special Tool for a Special Job.*

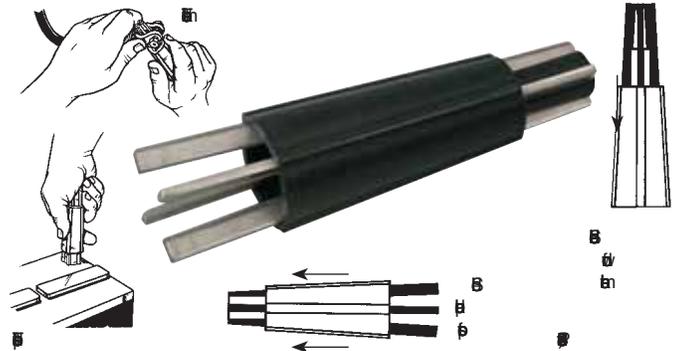
"Coil Spring" cutters polish the battery contact while stainless steel brushes clean the cable terminals.



## 11900 ADJUSTABLE BATTERY POST AND TERMINAL TOOL

*Stainless Steel Blades.*

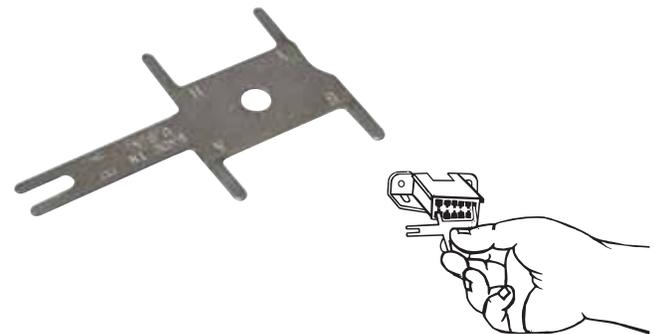
Blade angle is permanently set at the correct taper to assure positive contact between post and terminal. Slide tool body to change from posts to terminals.



## 22700 CODE RETRIEVER FOR GM

*Retrieves Trouble Codes from GM Vehicles.*

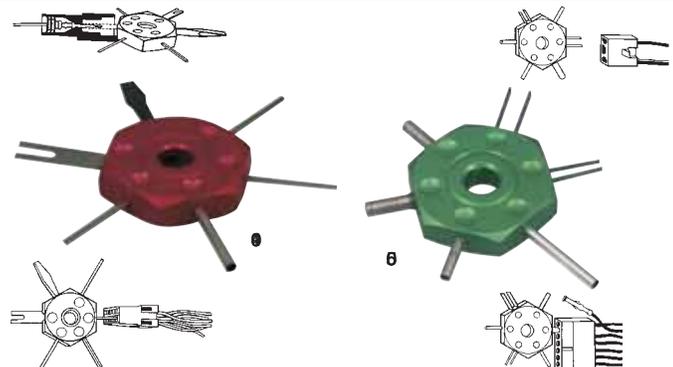
Three tools in one. Tool retrieves codes from engine computer, rear wheel anti-lock brake computer and four wheel anti-lock brake computer. Key probes jump terminals on Assembly Line Data Link Connector (ALDL) to activate trouble codes. Refer to a repair manual for proper code interpretation.



## 14900 56500 TERMINAL TOOLS

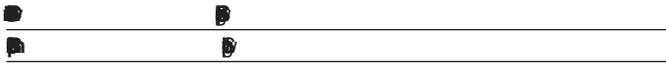
*Eliminate Damaged Wires and Terminals.*

Lisle Wire Terminal Tools are designed to remove wires from terminals without damage to either. 56500 prongs depress the "barbs" on conventional terminals. 14900 is designed for Pack-Con and Weather-Pack terminals on GM C3 Systems. Tool can also retrieve trouble codes from engine computer on late model GM vehicles.



**26250 Low Circuit Tester**

Quick check both AC and DC current up to 28 volts with power on. Helps locate shorts or breaks in wiring. Complete with insulated grounding clip.



**25600 "HANDY HOOKER" Circuit Tester**

*Hooded Probe Protects Your Fingers and Automatically Centers the Wire.*

Small size allows easy use even in the tightest places. Quickly test low voltage up to 28 volts. Alligator clip grounds tester.



**28400 Heavy Duty Circuit Tester**

*Quickly Tests Low Voltage up to 28 Volts.*

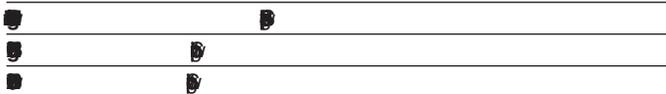
A heavy duty circuit tester for lifetime use. The probe, handle, cord and clamp are reinforced for extra durability. Comes with a strain relief spring on the cord.



**29500 High-Low Circuit Tester**

*Checks Both Low Voltage and Spark Plug Wires.*

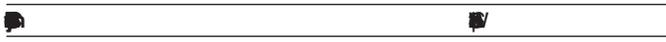
The low-side checks AC and DC current up to 28 volts with power on. The high-side checks spark plug wires without piercing. Complete with insulated clip.



**27450 Computer Safe Circuit Tester & Polarity Indicator**

*Works Without Damaging Sensitive Electronic Components.*

Safe for use on 12 volt automotive computer circuits. Tool draws less than 21 m.a. at 12 volts DC with an operating range of 3 - 28 volts. Red glow indicates positive polarity and green glow indicates negative polarity.



**26200 CONTINUITY TESTER**

Check continuity on wires, fuses, switches and other electrical systems. Just clip lead to one end of wire in question. Probe other end of wire. If bulb lights up, there is continuity. If bulb fails to light the circuit is open. Not to be used on live circuits or computer sensor feed circuits.



**28640 THE ULTIMATE CIRCUIT TESTER KIT**

Heavy Duty Tester Signals With A Light And Buzzer.

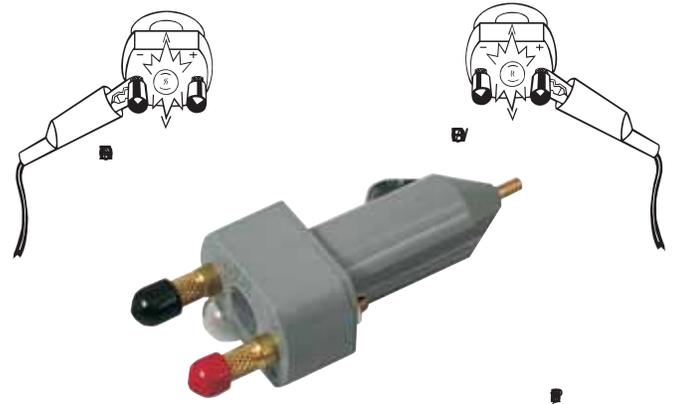
The tester kit tests low voltage up to 28 volts. Also finds electrical shorts, checks polarity, detects battery drain, and checks circuits from a distance. Heavy-duty coil cord extends over 8 feet. Detachable, spring-loaded hook pulls the center of the wire into the probe every time. Attach alligator clip to the probe when a clip-on connection is needed.



**32150 POWER / GROUND OUTLET**

Provides a Convenient Electrical Ground and Power Source from the Vehicle.

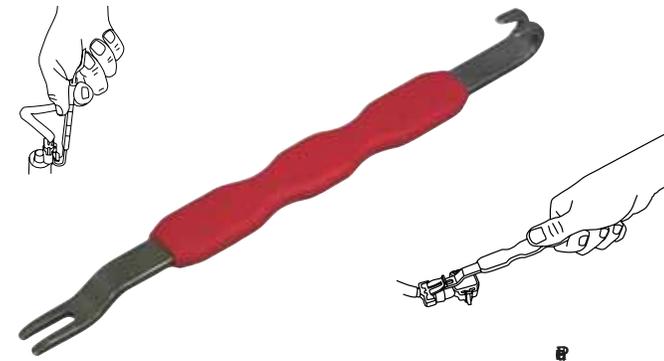
Plug the tool into the cigarette lighter or power accessory receptacle. You now have a ground and power source on the dash. The plug light will come on to signal the plug is properly connected and both power and ground are available at the posts. For power, connect to the positive (+) terminal. For electrical ground, attach ground wire from the instrument to be grounded to the negative (-) terminal.



**13120 ELECTRICAL CONNECTOR SEPARATOR**

Quickly Disconnects Electrical Connectors Without Damage.

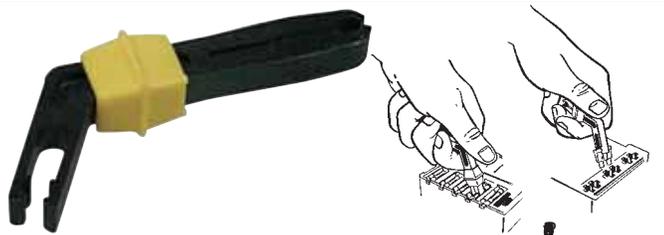
Engage the tool tip behind the connector clip. Push or pull to disconnect. The tool is double-ended to fit different access angles. Works on Weather Pack and other automotive electrical connectors.



**55200 FUSE PULLER**

Makes Pulling Fuses Easy.

No more stuck or broken fuses. For both glass and blade type fuses.





## 67870 STANDARD / HIGH ENERGY SPARK PLUG GAUGE & GAPPER

Gauges and Gaps all Types of Spark Plugs from .020" to .100" (.50mm to 2.53mm).

Tapered edge for gauging spark plugs. Specially designed hole with flange adjusts side wire of plug without pressuring center electrode.



in	mm
0.020	0.508
0.030	0.762
0.040	1.016
0.050	1.270
0.060	1.524
0.070	1.778
0.080	2.032
0.090	2.286
0.100	2.540

## 67800 67900 SPARK PLUG GAPPERS

For Standard and Electronic Ignitions.

67800 for standard ignition. 67900 for electronic ignition.

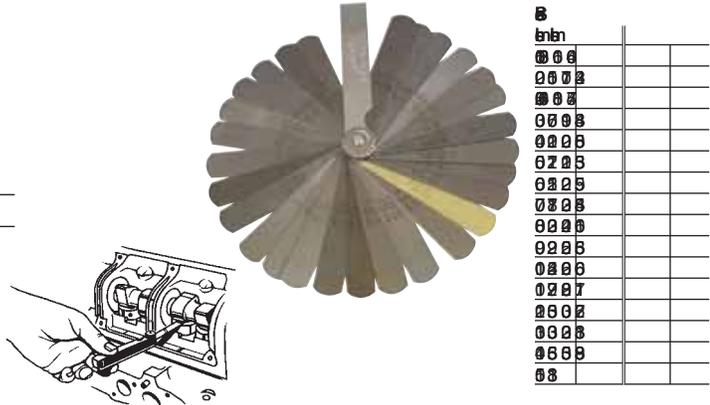


in	mm
0.005	0.127
0.010	0.254
0.015	0.381
0.020	0.508
0.025	0.635
0.030	0.762
0.035	0.889
0.040	1.016
0.045	1.143
0.050	1.270
0.055	1.397
0.060	1.524
0.065	1.651
0.070	1.778
0.075	1.905
0.080	2.032
0.085	2.159
0.090	2.286
0.095	2.413
0.100	2.540

## 68100 DELUXE FEELER GAUGE

31 Blades. 1 Brass Blade .010".

Precision blades ensure accurate measurements. Blades from .0015" to .035" (.038 - .889mm) thickness are approximately 1/2" wide by 3 1/2" long.

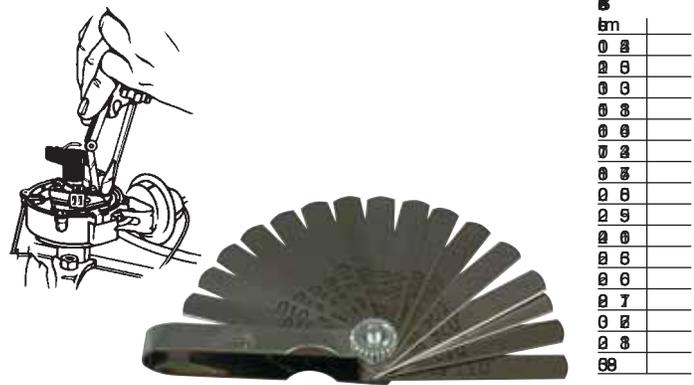


in	mm
0.0015	0.038
0.0020	0.051
0.0025	0.064
0.0030	0.076
0.0035	0.089
0.0040	0.102
0.0045	0.114
0.0050	0.127
0.0055	0.140
0.0060	0.152
0.0065	0.165
0.0070	0.178
0.0075	0.190
0.0080	0.203
0.0085	0.216
0.0090	0.229
0.0095	0.241
0.0100	0.254
0.0105	0.267
0.0110	0.279
0.0115	0.292
0.0120	0.305
0.0125	0.318
0.0130	0.330
0.0135	0.343
0.0140	0.356
0.0145	0.368
0.0150	0.381
0.0155	0.394
0.0160	0.407
0.0165	0.419
0.0170	0.432
0.0175	0.445
0.0180	0.457
0.0185	0.470
0.0190	0.483
0.0195	0.496
0.0200	0.508
0.0205	0.521
0.0210	0.534
0.0215	0.547
0.0220	0.559
0.0225	0.572
0.0230	0.585
0.0235	0.598
0.0240	0.610
0.0245	0.623
0.0250	0.635
0.0255	0.648
0.0260	0.661
0.0265	0.674
0.0270	0.687
0.0275	0.700
0.0280	0.712
0.0285	0.725
0.0290	0.738
0.0295	0.751
0.0300	0.764
0.0305	0.776
0.0310	0.789
0.0315	0.802
0.0320	0.815
0.0325	0.828
0.0330	0.840
0.0335	0.853
0.0340	0.866
0.0345	0.879
0.0350	0.892

## 68000 MINI FEELER GAUGE

16 Steel Blades.

Precision blades ensure accurate measurements. Blades from .010" to .035" (.254 - .889mm) are approximately 1/4" wide by 1 3/4" long.



in	mm
0.010	0.254
0.011	0.279
0.012	0.305
0.013	0.330
0.014	0.356
0.015	0.381
0.016	0.407
0.017	0.432
0.018	0.457
0.019	0.483
0.020	0.508
0.021	0.534
0.022	0.559
0.023	0.585
0.024	0.610
0.025	0.635
0.026	0.661
0.027	0.687
0.028	0.712
0.029	0.738
0.030	0.764
0.031	0.789
0.032	0.815
0.033	0.840
0.034	0.866
0.035	0.892

## 67950 STANDARD

## 68050 VALVE TAPPET FEELER GAUGE

11 Offset Steel Blades.

Precision blades are offset at the proper angle for adjustment of valve tappets. Blades are approximately 1/2" wide by 4" long.

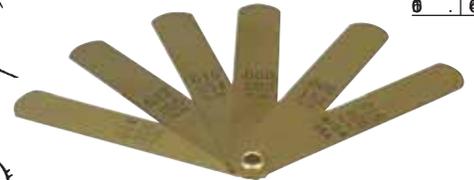
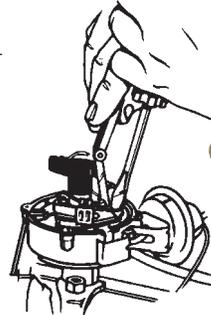


in	mm
0.0015	0.0381
0.0030	0.0762
0.0045	0.1143
0.0060	0.1524
0.0075	0.1905
0.0090	0.2286
0.0105	0.2667
0.0120	0.3048
0.0135	0.3429
0.0150	0.3810
0.0165	0.4191
0.0180	0.4572

## 68200 BRASS FEELER GAUGE

6 Brass Blades.

Precision blades are non-magnetic, for use in adjusting reluctor air gap on electronic ignition systems. Blades are approximately 1/2" wide by 3" long.



in	mm
0.0015	0.0381
0.0030	0.0762
0.0045	0.1143
0.0060	0.1524
0.0075	0.1905
0.0090	0.2286

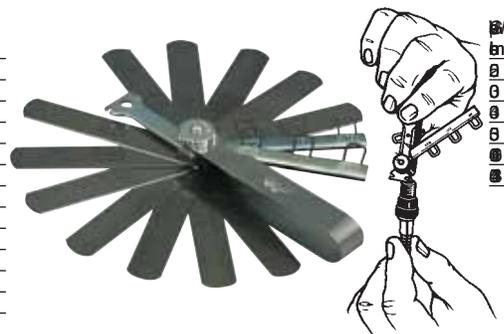
## 67850 SPARK PLUG GAPPER & FEELER GAUGE

6 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 approximately 1/2" wide by 3 1/2" long.



in	mm
0.0015	0.0381
0.0030	0.0762
0.0045	0.1143
0.0060	0.1524
0.0075	0.1905
0.0090	0.2286
0.0105	0.2667
0.0120	0.3048
0.0135	0.3429
0.0150	0.3810
0.0165	0.4191
0.0180	0.4572

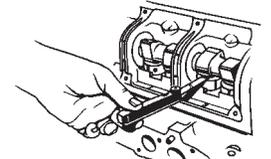


in	mm
0.0015	0.0381
0.0030	0.0762
0.0045	0.1143
0.0060	0.1524
0.0075	0.1905
0.0090	0.2286
0.0105	0.2667
0.0120	0.3048
0.0135	0.3429
0.0150	0.3810
0.0165	0.4191
0.0180	0.4572

## 68150 Go-No-Go FEELER GAUGE

22 Steel Blades.

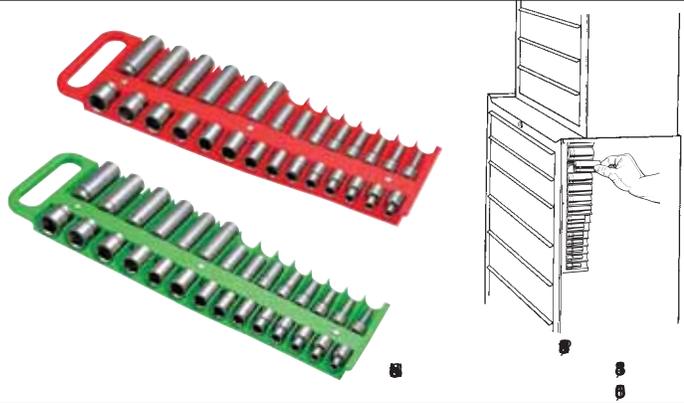
Precision stepped blades have a .002" step for accurate settings. Blades from .004" to .027" (.102 - .686mm) are approximately 1/2" wide by 3 1/4" long.



in	mm	in	mm
0.0040	0.1016	0.0100	0.2540
0.0045	0.1143	0.0110	0.2794
0.0050	0.1270	0.0120	0.3048
0.0055	0.1397	0.0130	0.3302
0.0060	0.1524	0.0140	0.3556
0.0065	0.1651	0.0150	0.3810
0.0070	0.1778	0.0160	0.4064
0.0075	0.1905	0.0170	0.4318
0.0080	0.2032	0.0180	0.4572
0.0085	0.2159	0.0190	0.4826
0.0090	0.2286	0.0200	0.5080
0.0095	0.2413	0.0210	0.5334
0.0100	0.2540	0.0220	0.5588
0.0105	0.2667	0.0230	0.5842
0.0110	0.2794	0.0240	0.6096
0.0115	0.2921	0.0250	0.6350
0.0120	0.3048	0.0260	0.6604
0.0125	0.3175	0.0270	0.6858
0.0130	0.3302		
0.0135	0.3429		
0.0140	0.3556		
0.0145	0.3683		
0.0150	0.3810		
0.0155	0.3937		
0.0160	0.4064		
0.0165	0.4191		
0.0170	0.4318		
0.0175	0.4445		
0.0180	0.4572		
0.0185	0.4699		
0.0190	0.4826		
0.0195	0.4953		
0.0200	0.5080		
0.0205	0.5207		
0.0210	0.5334		
0.0215	0.5461		
0.0220	0.5588		
0.0225	0.5715		
0.0230	0.5842		
0.0235	0.5969		
0.0240	0.6096		
0.0245	0.6223		
0.0250	0.6350		
0.0255	0.6477		
0.0260	0.6604		
0.0265	0.6731		
0.0270	0.6858		

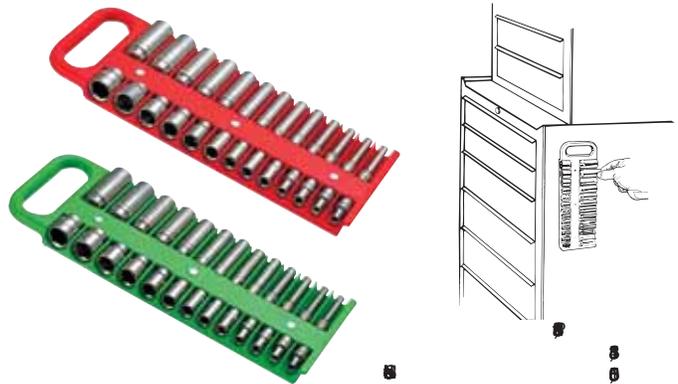
## 40200 40210 3/8" MAGNETIC SOCKET HOLDERS

**Organizes 3/8" Fractional & Metric Sockets.**  
 Twenty-eight socket compartments that allow you to keep your 3/8" standard and deep sockets in one convenient holder. Holds sockets up to 1" or 24mm. Design of holders leaves sockets exposed for easy identification. Powerful magnets securely hold sockets in tray, & tray to any steel surface. Made of strong ABS plastic. Fits most 3/8" sets.



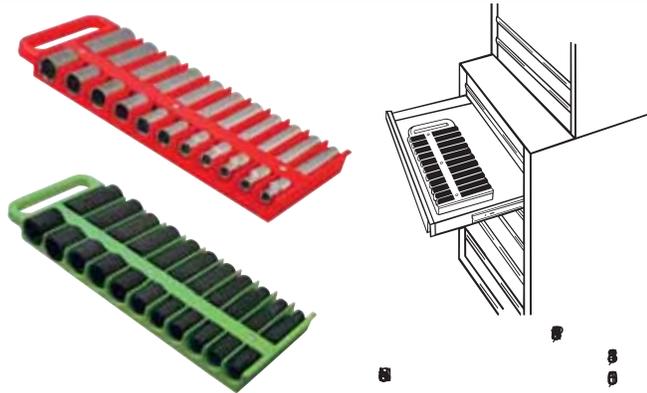
## 40120 40130 1/4" MAGNETIC SOCKET HOLDERS

**Organizes 1/4" Fractional & Metric Sockets.**  
 Twenty-six socket compartments allow you to keep your 1/4" standard and deep sockets in one convenient holder. Holds sockets up to 5/8" or 15mm. Design of holders leaves sockets exposed for easy identification. Powerful magnets securely hold sockets in tray, and tray to any steel surface. Made of strong ABS plastic.



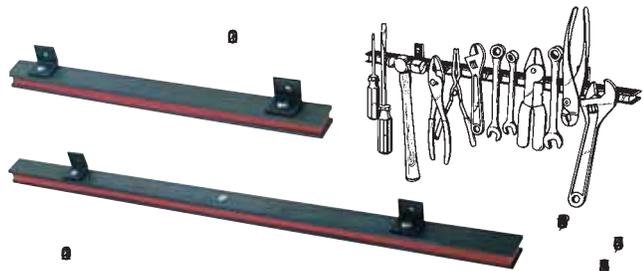
## 40900 40990 1/2" MAGNETIC SOCKET HOLDERS

**Organizes 1/2" Chrome & Impact Sockets.**  
 Twenty-two socket compartments allow you to keep your 1/2" standard and deep sockets in one convenient holder. Holds sockets up to 1" or 20mm. Design of holders leaves sockets exposed for easy identification. Powerful magnet holds sockets in tray. Rubber feet protect tool box from scratching. Made of strong ABS plastic. Will fit impact sockets.



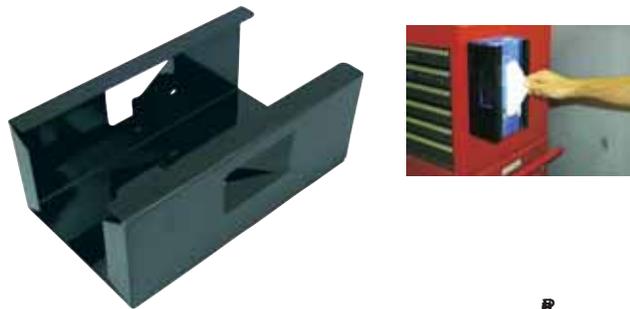
## 21300 21400 MAGNETIC TOOL HOLDERS

**21300 - 13" Length. 21400 - 24" Length.**  
 Powerful magnet holds even heavy hand tools. Ideal for both home and shop. Mounting screws included.



## 20130 MAGNETIC GLOVE DISPENSER

Magnetic glove dispenser conveniently attaches to your tool box or any ferrous metal surface. Two large magnets hold the dispenser in place. Or, mount it on a wall using the screw slots provided. Fits all common sizes of disposable rubber glove boxes, both 50 and 100 packs. The dispenser has 3 adjusting springs which can be adjusted as necessary to hold the various box sizes. Made of powder coated steel.

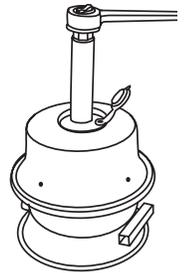


Available in 6 pack boxes only for product protection.

## 49000 TRUCK SPRING CAGE BOLT SOCKET

Quickly Unlocks Truck Air Brakes.

Extra deep 3/4" socket loosens the cage bolt to unlock air brakes on trucks. Also removes the air brake booster for replacement. Use with a 1/2" drive or 7/8" hex. Can be used with an impact wrench.



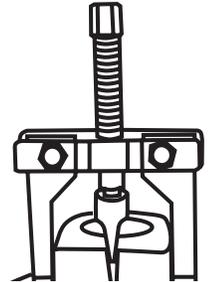
## 39110 PITMAN ARM REMOVER FOR TRUCKS

Quickly And Safely Removes Stuck Pitman Arms On Trucks 2 Ton And Larger.

The tool wedge opens the Pitman arm slots for easy removal. Can be used with an impact wrench.

Directions:

1. Remove the bolt and nut from the Pitman arm.
2. Insert both tool arms into the bolt hole.
3. Align the tool wedge with the slot and turn the center bolt.
4. Pull Pitman arm to remove.



## 21520 TRUCK PEDAL DEPRESSOR

Depresses & Holds Clutch Pedals & Brake Pedals.

The two-piece, telescoping tool extends to pedal & locks in position. Brace the formed plate against the seat or steering wheel for support. Tool extends from 18 1/2" to 34 1/2".



## 19852 TRUCK & TRAILER WHEEL PAN

Catches Oil from Wheel Hubs After Removing Cap.

Prevents oil mess during wheel repair. The pan fits rims with 13 3/4" ID and larger. Handle compartments hold hub nuts out of the oil. Made of polypropylene for durability. Will not warp if oil is warm. Capacity 88 ounces.



## 19122 TRUCK DRAIN ON WHEELS

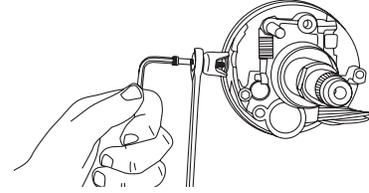
Use This Heavy Duty Drain To Drain Large Capacity Crank Cases.

Holds up to 60 quarts. Equipped with 4 rollers and a handle for transport & positioning under trucks. The sides curve inward to keep the oil from spilling during movement. Convenient handles & pour spout facilitate oil evacuation. Rolls under most all cab over axles so the oil can be changed without jacks or jack stands. Overall height 10", width 24 1/2", length 43".



### 19940 PIVOT PIN REMOVER

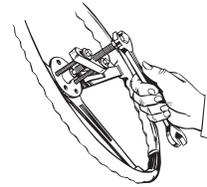
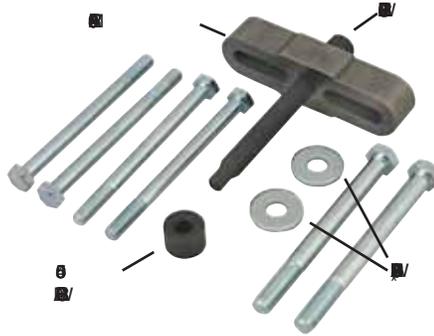
Removes the pivot pin on GM, Ford and Chrysler tilt and telescoping Saginaw steering columns. Includes an extra screw.



### 45000 STEERING WHEEL PULLER

Universal Puller for Most Makes & Models.

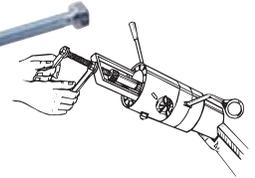
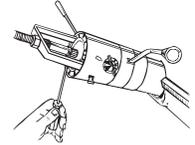
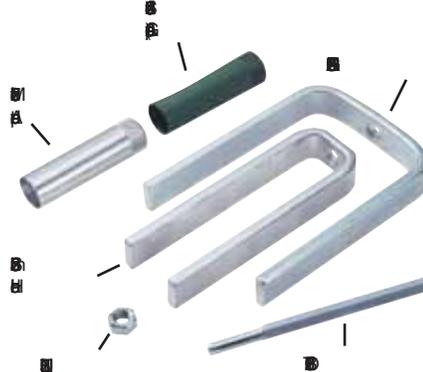
Screw pad protects end of steering shaft. Heavy duty for long wear.



### 57340 STEERING WHEEL LOCK PLATE TOOL

Fits Domestic Lock Plates, Including Tilt & Telescoping.

Tool depresses lock plate for easy removal of lock ring. Allows access to steering column for repair work. Comes with standard and metric adapters, plus two puller frames. Fits most domestic lock plates, including tilt and telescoping columns. Works on vehicles with air bags.



### 51350 51360 PUTTY KNIVES AND SCRAPERS

51350 1 1/4" Stiff, Tempered Steel Blade.

51360 3" Flexible, Tempered Steel Blade.

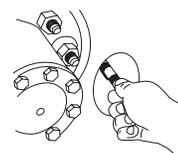
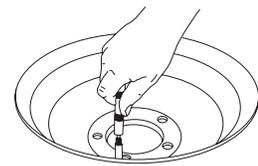
Ideal for scraping old putty, paint, dirt & carbon. Can also be used for applying putty. One piece blade has a satin finish. Handle is made of polypropylene for easy cleanup.



### 14100 VALVE CORE TOOL

Removes & Installs Valve Cores & Valve Core Caps.

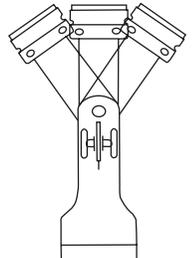
The double ended core driver reverses in the tool body. The reversible driver fits both large & small valve cores. Use the reverse end to remove & install valve core caps. The long tool handle will access inside dual wheels. The lightweight aluminum body is equipped with a pocket clip.



**52400 FOLD-UP SCRAPER**

Blade Folds Into The Handle For Safe, Convenient Storage.

The fold-up scraper features three arm positions and a slanted blade for proper scraping. Great for removing decals, bumper stickers, labels, etc. The quick change blade holder firmly holds a single edge razor blade. Includes 1 single edge razor blade. Overall length 7 3/4".



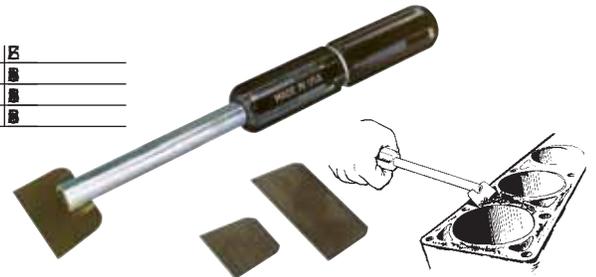
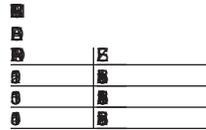
Locks in Three Different Positions.



**51000 HEAVY DUTY SCRAPER**

Sharp Steel Blade Quickly Peels Off Carbon, Sludge.

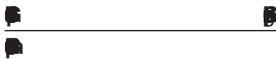
Sharp, hardened steel blades remove carbon, old gasket material, adhesives, sludge and other hard-to-clean substances from blocks, heads, etc. Comes with three blades. 1", 1 1/2" and 2" widths. Tool will hold single edge razor blade for bumper stickers and decals.



**51650 CARBIDE GASKET SCRAPER**

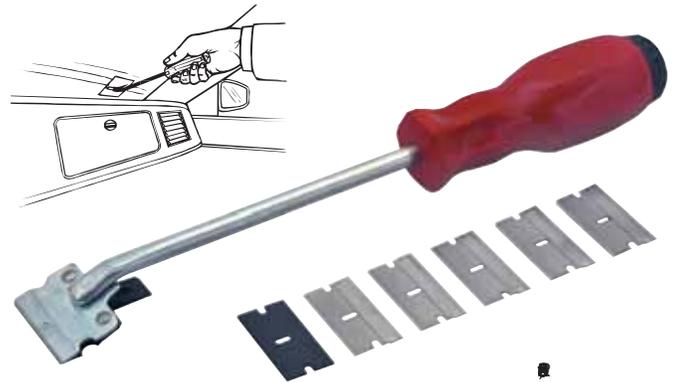
Six-Sided Carbide Blade Cuts Smoother and Lasts Longer.

The carbide blade has special sharpened angles that won't gouge metal surfaces. Offset shaft gives additional hand clearance, and allows better control in tight places. When carbide cutter becomes dull, loosen Allen screw and turn blade to next position. Turn blade over for three additional cutting surfaces for a total of six possible cutting edges.



**52000 RAZOR BLADE SCRAPER**

At last, a scraper that is designed to reach in tight places. Comes with five stainless steel blades for removing stickers from windshields, bumpers, etc. Also comes with a plastic blade for use on safety plastic laminated windshields to prevent scratching. Spring-release allows easy interchange of blades. Reverse blade in holder for storage. Hollow handle stores all blades when not in use.



**52150 100 PACK OF RAZOR BLADES**

Convenient Pack of Standard Razor Blades.

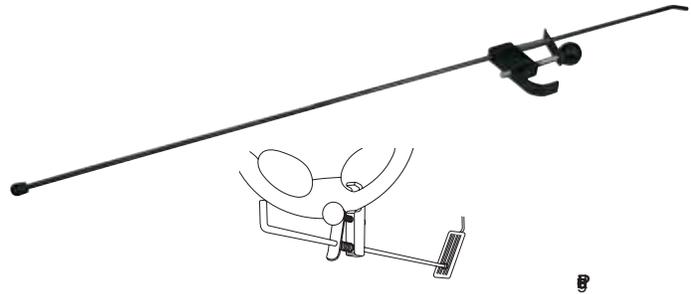
Contains 100 stainless steel, single edged razor blades. Pack is resealable for organized storage. Fits all standard razor blade tools, including Lisle 52000 Razor Blade Scraper.



### 48700 THROTTLE PEDAL DEPRESSOR

**Holds Throttle at a Constant RPM.**

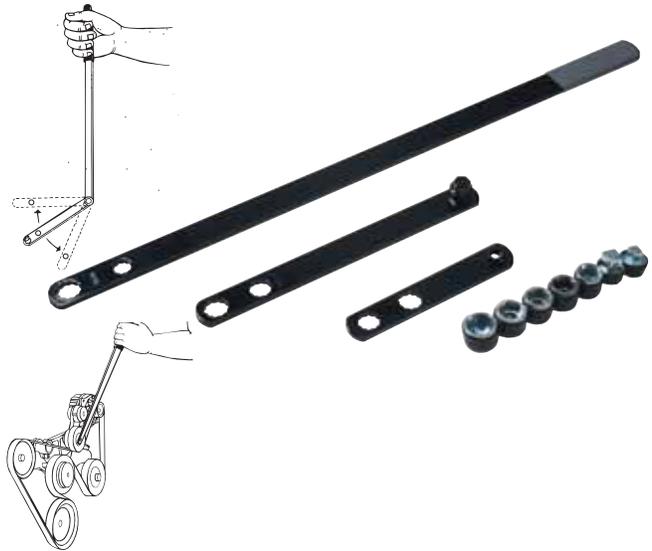
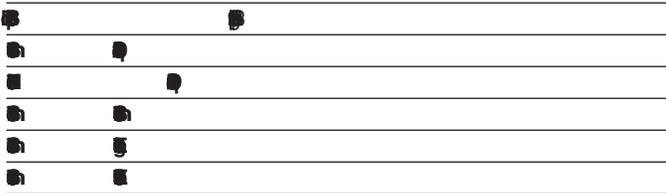
Engage the nylon hook under the steering wheel. Then extend the depressor rod to the accelerator pedal. Use the adjustment screw to fine-tune the RPM level. Tool is 40" in overall length.



### 57900 SERPENTINE BELT TOOL

**Releases Tension on Serpentine Belts with a Spring Loaded Idler Pulley.**

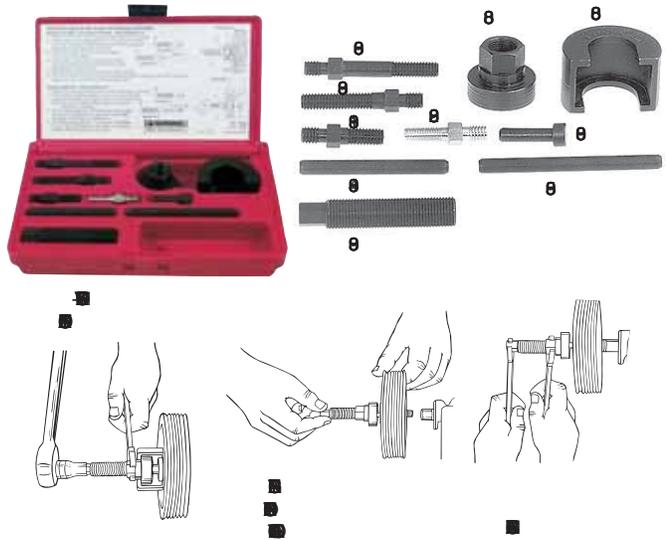
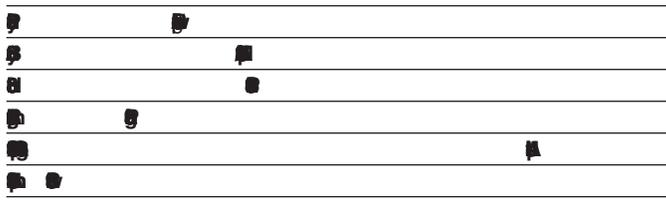
Used to remove and install belts on serpentine belt systems using a spring loaded idler pulley. Will reach where conventional ratchets and breaker bars won't. Extension bars are bolted on for hard-to-reach areas.



### 38850 PULLEY PULLER / INSTALLER

**Removes and Installs Pressed on Power Steering, Alternator and Air Pump Pulleys.**

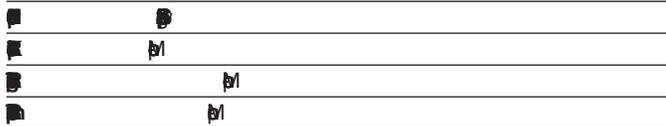
Makes removing pressed on pulleys an easy job. This puller will remove and install pulleys on most GM, Ford and Chrysler vehicles. Special adapters are included for GM 3.1 and Quad 4 engines. Works on traditional V-shaped pulleys and serpentine belt system pulleys. Tool comes with detailed instructions and a heavy-duty plastic storage case.



### 45900 HOOD PROP

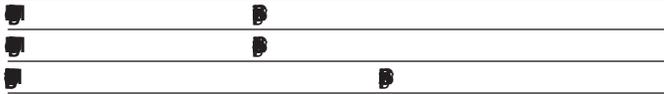
**Works on All Makes of Cars and Trucks.**

The three-piece, telescoping design allows the mechanic to hold the hood in the desired position. The tool 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.



**31000 31250 66500 MAGNETIC PICK-UP TOOLS**

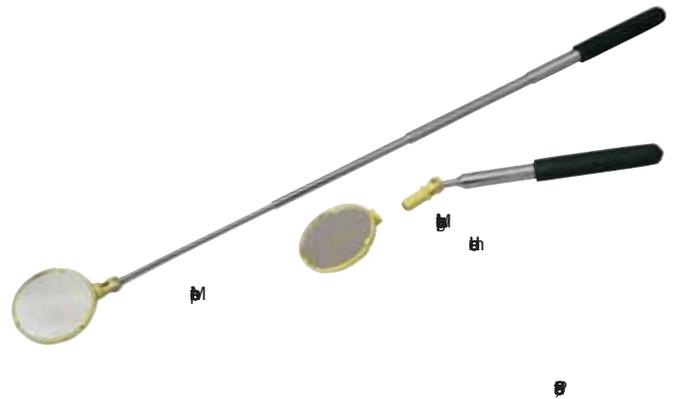
Will retrieve parts and tools from hard to reach places. Magnet shielded to concentrate magnetic field at end of tool. 31000 and 66500 have a super strong neodymium magnet. 31000 extends from 14 1/2" to 23 1/4". 31250 total length 9 1/2". 66500 telescopes from 4 1/2" - 16 1/4".



**30680 MAGNETIC PICK-UP & INSPECTION MIRROR**

Two Tools In One.

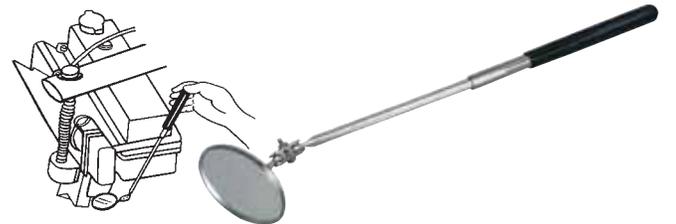
This tool doubles as a telescoping magnetic pick-up tool and inspection mirror. Attach the mirror housing to the magnet and you have a 2 1/4" diameter inspection mirror. Remove the mirror, and you have a magnetic pick-up tool which extends from 7 3/4" to 21 1/4". Magnet holds 2 lbs. Locking teeth prevent mirror from swiveling on the magnet. Also, the non-rotating telescopic handle firmly holds the mirror/magnet in position when extended.



**32050 TELESCOPING MIRROR**

Enables You To See Around Corners.

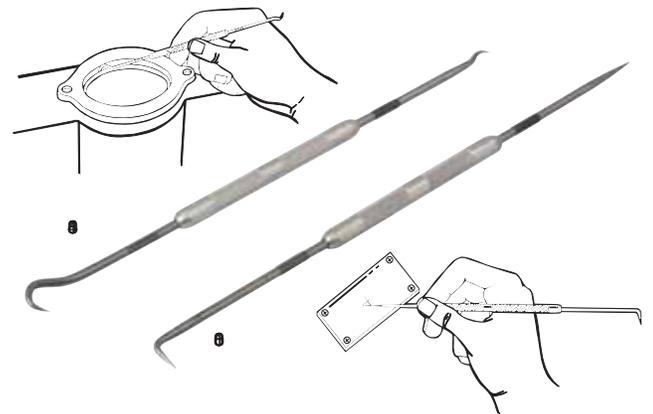
2 1/4" diameter mirror swivels to any position. Length extends from 10" to 14". Has an insulated vinyl grip.



**31840 "O" RING AND SEAL PICK**

Quickly Removes & Installs "O" Rings & Seals.

Tips are angled for hard-to-reach areas typically found around brakes, air conditioning and transmissions. Tips are hardened to stay sharp. Handle is knurled for a sure grip.



**31800 SCRIBE**

For Marking Metal & Softer Material Surfaces.

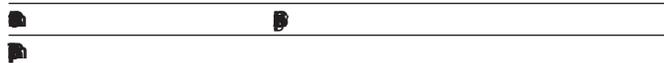
Comes with straight and 90° points to mark in even the tightest places. Heat-treated carbon steel points provide durability. Knurled aluminum handle provides a sure grip.



**30280 AUTOMATIC CENTER PUNCH**

Automatic Firing Action.

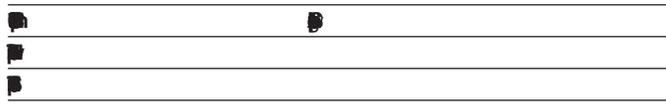
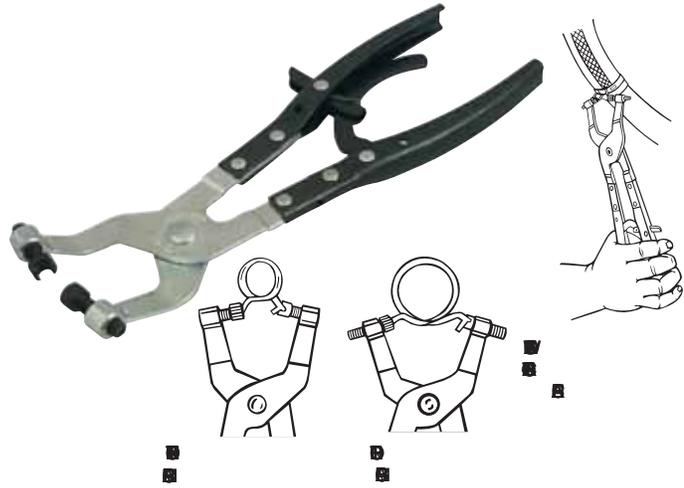
Automatic action fires to create a dimple when downward pressure is applied. No hammer is needed. Works on metal, plastic, wood and other materials. Pressure can be varied by turning the knurled knob. Hardened tool steel tip is replaceable. Length 5 1/2".



**17100 FLAT BAND HOSE CLAMP PLIERS**

Adjustable Jaws Fit All Clamp Sizes for Easy Removal and Installation.

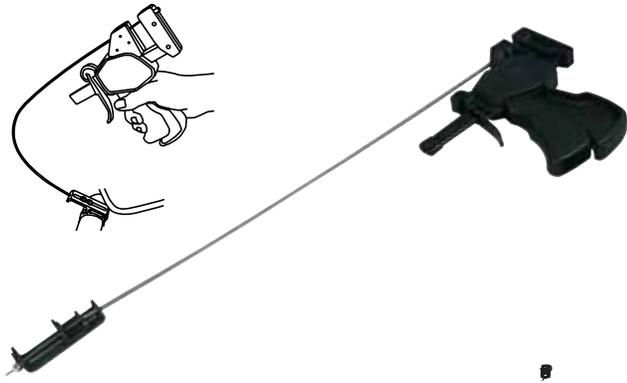
This tool removes and installs flat band hose clamps used on heater and radiator hoses. Tips screw in and out to fit all clamp sizes. Ratcheting lock mechanism holds the clamp in an open position for easy removal and installation. Tips can be switched to accommodate different applications. Offset jaws allow access in hard-to-reach areas.



**35610 UNIVERSAL HOSE CLAMP REMOVER**

Flexible, 20" Cable Reaches Tight Locations.

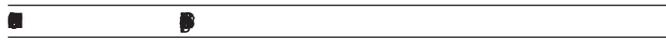
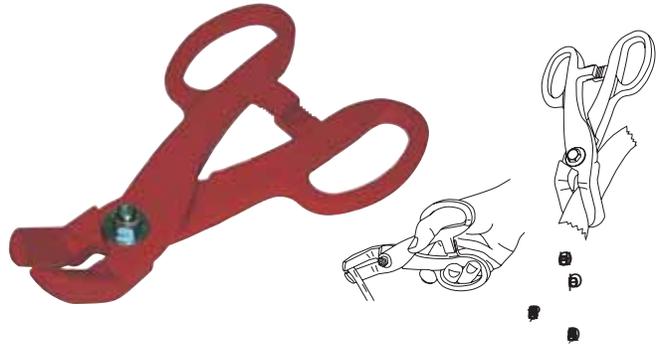
Works in confined spaces where pliers won't reach. Simply squeeze the handle lever to expand and hold hose clamps in any open position. Leaves both hands free to work. For use on clamps found on radiator hoses, heater hoses and fuel lines. The tool will also expand Mobebe-type clamps to the self-lock position.



**23000 HOSE PINCHER**

Clamps And Holds Hoses Up To 3/4" I.D.

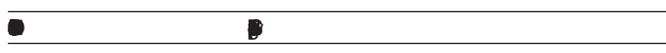
Angled jaws close to create a complete seal every time. Jaws are offset for hard-to-reach areas. The handles lock firmly to hold the jaws in a closed position. Frees both hands to do the work. Used on brake hoses, vacuum hoses, heater hoses and all flexible rubber hose. Made of glass-filled nylon for extra strength.



**34660 HOSE PINCH-OFF PLIERS**

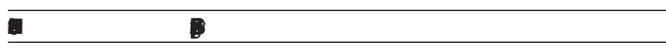
Clamps and Holds Rubber Hoses and Lines During Service.

Squeeze the handles to pinch-off rubber hose. The tool jaws automatically lock in the closed position. Works on radiator, vacuum, heater, fuel and other rubber lines and hoses. Not for use on wire reinforced hoses.



**22850 HOSE PINCHERS**

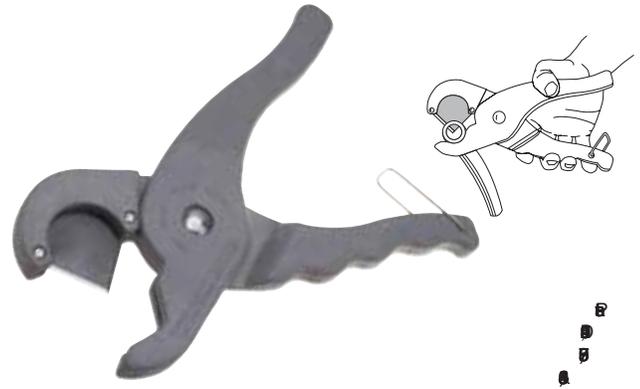
A quick, easy way to pinch off vacuum lines, fuel lines, brake lines, etc. without damaging the line. Sold two per set.



## 11420 HOSE CUTTER

Cuts Flexible Hose up to 1 1/4".

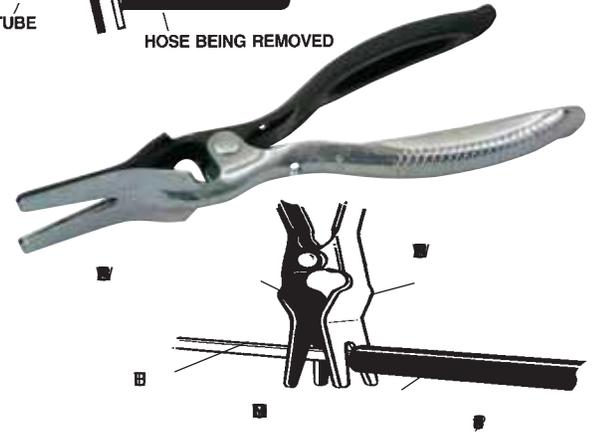
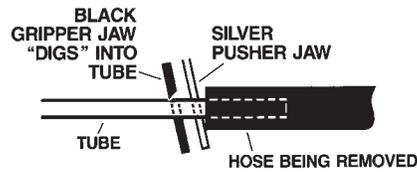
The Hose Cutter will cleanly cut heater hoses, fuel lines, and other types of flexible hose up to 1 1/4". The stainless steel blade is reversible for double the life. Plier is made of glass-filled nylon for strength.



## 47900 HOSE REMOVER PLIERS

For Easy Removal of 5/32" to 1/2" Vacuum and Fuel Hoses.

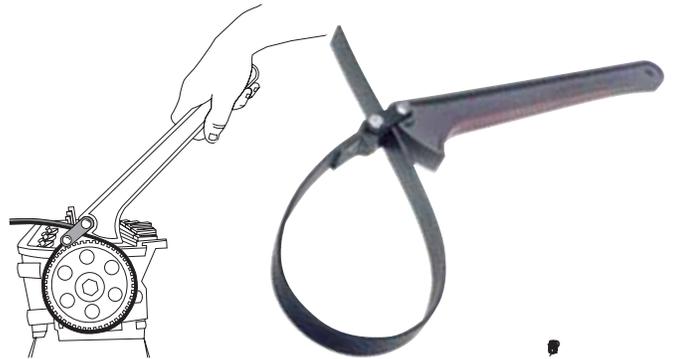
Engage the tube (line) with the black jaw. This sharpened jaw actually "DIGS" into the tube to grip it! Squeeze and the hose is easily pushed off by the silver jaw.



## 28500 STRAP WRENCH

Loosen or Tighten Cylindrical or Rectangular Objects.

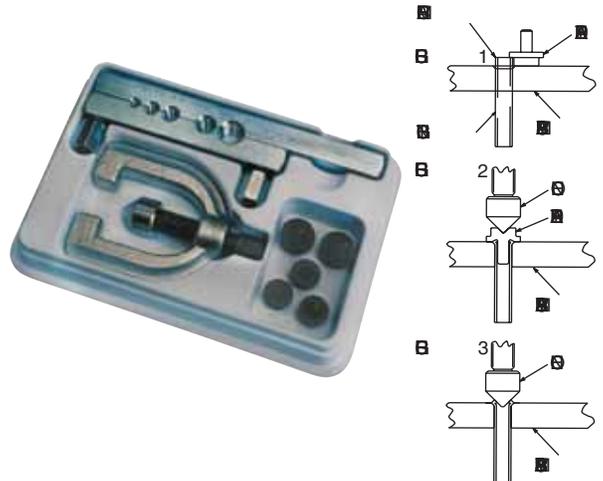
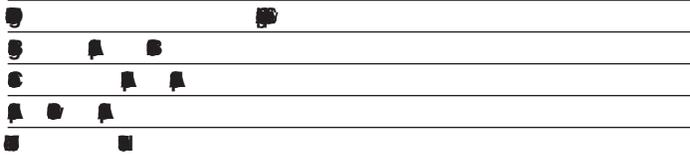
Handy, self-tightening strap wrench won't slip. Works great for installing or removing timing belt sprockets or belt pulleys. Range from 1" to 6 5/8" round. Tensile strength of strap is 1350 P.S.I. Handle is made of glass-filled polypropylene which provides superior strength.



## 31310 DOUBLE FLARING TOOL SET

Makes Both Single and Double SAE Flares.

This tool set includes everything to flare thin wall steel, aluminum or .040 wall soft copper tubing. The set includes 5 thread dies and adapters for forming double flares on the following tubing sizes: 3/16", 1/4", 5/16", 3/8" and 1/2". However, this set is not for use on stainless steel tubing. The set is packaged in a durable, oil and grease resistant tray for storage. Full instructions are included.



**52500 MECHANIC'S STETHOSCOPE**

Unique Sound Chamber & Super Thin Diaphragm Greatly Amplifies Sounds.

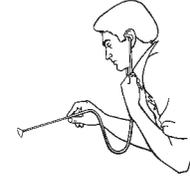
Quickly pinpoints the source of mechanical noises in engines, transmissions, differentials and bearings.



**52700 AUDIO STETHOSCOPE**

Detects Noise From Vacuum Leaks, Exhaust Leaks, Wind Noise & Air Leaks.

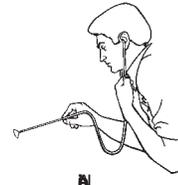
Detects air induced sounds not detected by conventional stethoscopes. Place funnel over suspected air leak.



**52750 STETHOSCOPE SET**

Dual Purpose Set Detects Both Mechanical & Air Induced Sounds.

Use the black diaphragm chamber & screw-in metal probe to detect mechanical sounds from bearings, engines, transmissions, etc. For air induced sounds, attach the vinyl hose to hollow tube and funnel assembly. The funnel amplifier will detect noises from vacuum leaks, exhaust leaks, air leaks and wind noise. For hard to reach locations, remove the funnel and use the hollow tube.



**18700 HOT SLEEVE**

Protects Arms from Burns While Working Around the Engine.

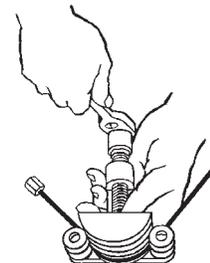
Made of durable, heat-resistant Kevlar®. Double wall construction for added heat protection. Will protect hand and forearm from hot objects. Will work on either right or left arm. Sleeve is washable.



**44000 TUBING BENDER**

Bends 4 Sizes.

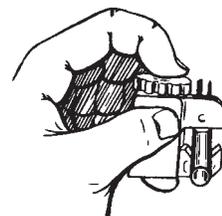
Easy to use with one end connected - or can be mounted in a vise. Exclusive nylon form prevents kinking or flattening. For 3/16", 1/4", 5/16" and 3/8" O.D. tubing. Not recommended for 3/8" steel.



**50000 MINI-CUTTER**

Smooth Nylon Action Cuts Tubing Quickly.

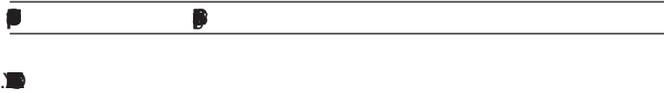
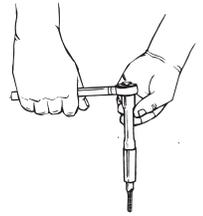
Easy-to-use Mini-Cutter features all nylon construction, giving you smoother, easier operation & longer tool life. Used in tight places right on the car. For all types of metal tubing. Handles smallest tubing to 5/8" O.D. Completely non-corrosive.



## 70500 TAP SOCKET SET

For Use in Restricted Areas.

Ideal for use in areas where a T-handle won't fit. Set of 8 sockets fits all number and fractional M.C.T.I. standard taps thru 1/2". Also fits 1/8" NPT taps and metric taps thru 12mm manufactured to M.C.T.I. standards. Sockets contained on a vinyl holder.

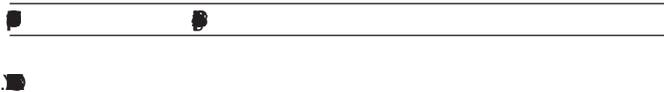
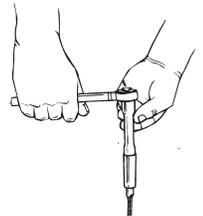


Size	5	5	5	5	5	5	5
1/8"	0						
3/16"	0	1	2	3			
1/4"	0	1	2	3			
5/16"	0	1	2	3			
3/8"	0	1	2	3			
1/2"	0	1	2	3			
3/4"	0	1	2	3			

## 70940 TAP SOCKET SET

Three Larger Sizes in a Convenient Set.

The three largest tap sockets, also available individually, are now packaged in a three piece set. Ideal for use where a T-handle won't fit, especially in restricted areas. For larger, fractional M.C.T.I. standard taps. #9 socket is 5/8" (16mm), #10 is for 11/16" (18mm) and #11 is for 3/4". Sockets contained in a vinyl holder.

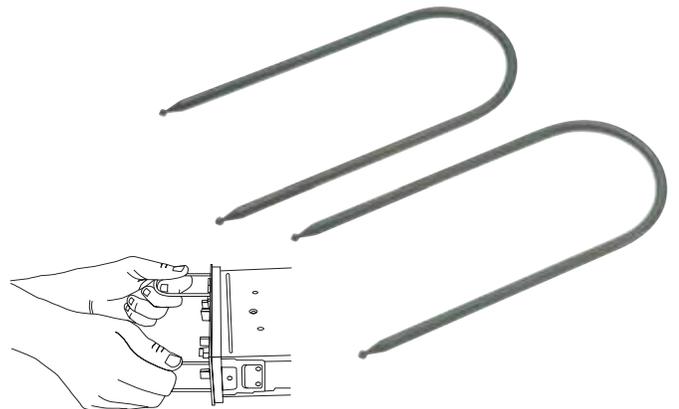


Size	5	5	5	5	5	5	5
5/8"	0	1	2	3			
11/16"	0	1	2	3			
3/4"	0	1	2	3			

## 11770 RADIO REMOVER

Disengages Retaining Clips on Fords and Imports.

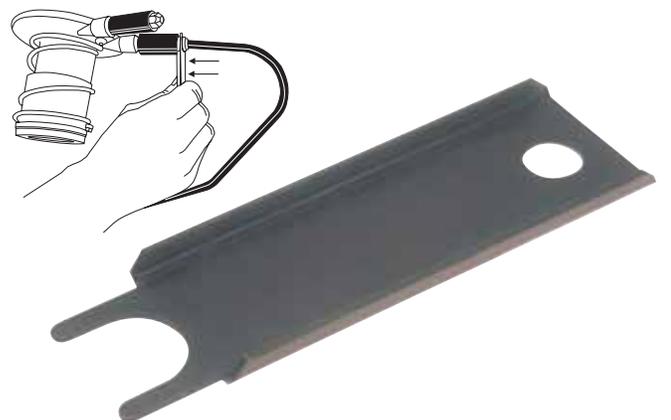
Tool quickly releases retaining clips on radios. Also works on some Saab, VW, Audi, and other import applications. Allows easy removal without damage. Set of two tools also serves as handles for removing the radio from the panel. Tools lock securely into clips on side of radio. Also works on some DIN mountings found on import vehicles.



## 11750 CLUTCH COUPLING REMOVER FOR FORD

Disconnects Ford Hydraulic Clutch Lines.

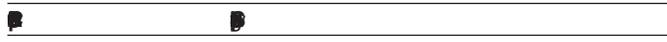
Easily disengages the hydraulic clutch line from the clutch slave cylinder on some Ford manual transmissions. Tool prongs fit around clutch line above nylon sleeve. For 1989 and newer Mercury Cougars and Thunderbirds; 1988 and newer F-series trucks including Explorer, Ranger & Bronco II.



**20900 RADIATOR CAP PLIERS**

Fast, Safe Removal of all Standard Radiator Caps.

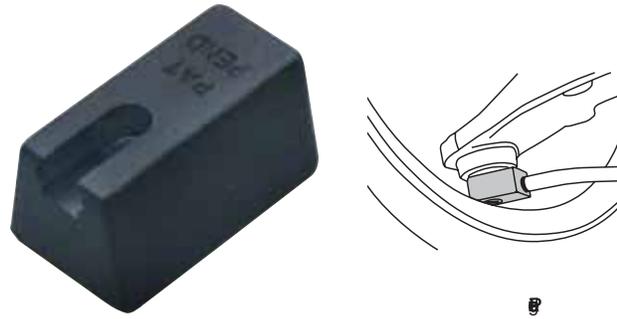
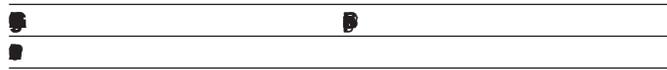
Simply engage the pliers over the cap, press down, rotate and release.



**21600 RIGHT ANGLE GREASE GUN ADAPTER**

Reach Inaccessible Grease Zerks.

Attach to any standard grease gun to reach confined areas. For Chrysler, Dodge and Plymouth FWD ball joints and other tight places.



**24750 FENDER PROTECTOR**

Durable, Heavy Duty.

Heavy, long wearing foam vinyl protects the car and provides a convenient place for holding small tools and parts.



**48000 ALUMINUM VISE JAW PADS**

Ideal for Holding Round and Hex Parts Securely.

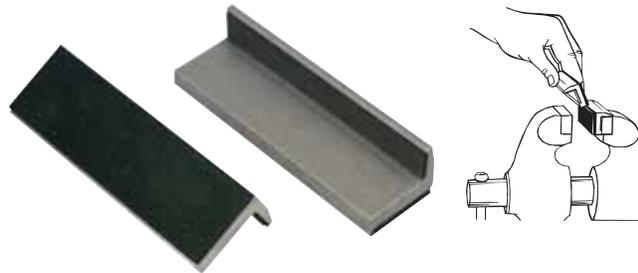
V-shaped aluminum surface holds and helps protect round or hex parts. Specially designed ledge supports flat parts while clamping. Strong nitrile magnets will attach to any steel vise jaws. Pad length is 4".



**48100 RUBBER FACED VISE JAW PADS**

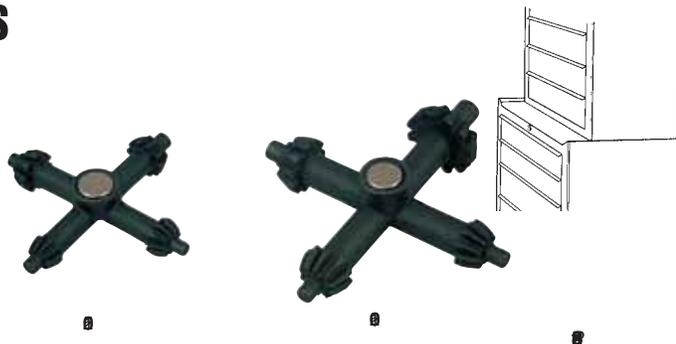
For Protecting Delicate Parts.

Rubber jaw pads protect delicate parts from damage. Also works great for holding irregular shapes. Strong nitrile magnets attach to any steel vise jaw. Pad length is 4".



**12050 12060 MASTER CHUCK KEYS**

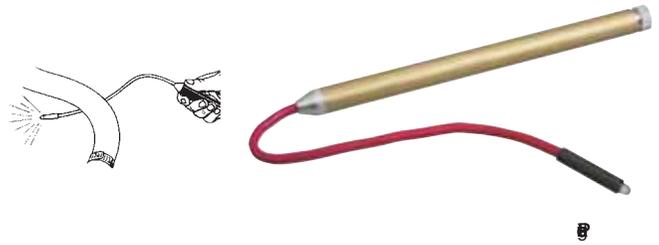
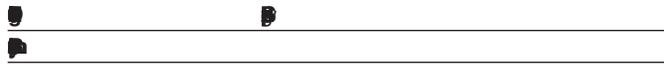
Two handy chuck keys, each with 4 sizes. Both tools have strong neodymium magnets for attachment close to the worksite or toolbox. The eight different chuck key sizes cover the most popular chucks available. Cast from alloy steel for strength.



**35900 LED FLEXIBLE FLASHLIGHT**

**LED Bulb Lasts For Up to 100,000 Hours.**

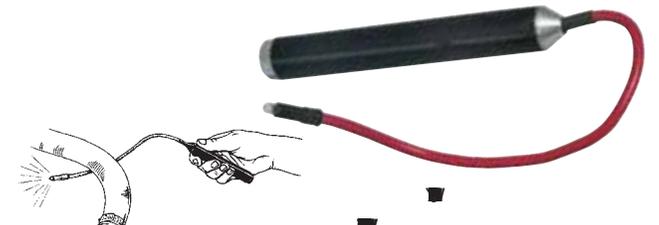
Flexible wire works around obstructions and holds the shape you give it. White light brightly illuminates even the tightest work areas. Uses 3 AAA batteries not included.



**32250 FLEXIBLE FLASHLIGHT**

**Shines Where Other Lights Can't!**

Flexible wire holds the shape you give it. Focused high intensity bulb (only 1/4" in diameter) fits into the tight spots.



**37250 POCKET LED LIGHT**

This lightweight, compact 4 1/2" light is designed for handy use. Depress the pocket clip to illuminate. The bright white LED bulb lasts up to 100,000 hours. Comes equipped with 2 common replaceable 3 volt batteries, CR2016.



**37400 POCKET UV LED LIGHT**

**For Leak Detection.**

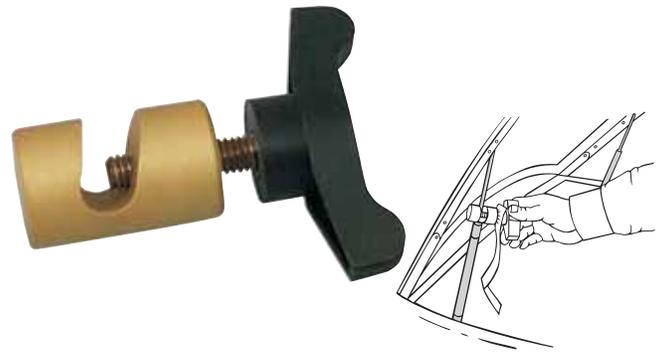
Depress the pocket clip to illuminate. The UV light detects A/C and coolant leaks when used with leak detection dyes. The bright UV LED bulb lasts up to 100,000 hours. Comes equipped with 2 common replaceable 3 volt batteries, CR2016. Overall length 4 1/2".



**44870 UNIVERSAL LIFT SUPPORT CLAMP**

**Holds Weak Gas Charged Lift Supports Open.**

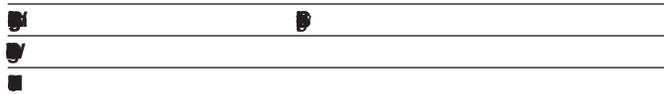
Tool holds gas charged lift supports found on hoods, tail-gates, hatchbacks and trunks. Clamp securely holds weak lift supports in the extended position to allow access to the engine compartment or luggage area. The aluminum body and brass threads prevent damage to the lift support. Colorful flag serves as a reminder to remove the clamp.



**43220 RIGHT ANGLE IMPACT WRENCH**

**Works Where Your Impact Wrench Won't Fit.**

The right angle design gives you access to those hard to reach bolts. Works great on harmonic balancer bolts, transmission bolts, cam bolts and others where an impact wrench won't reach. Will both loosen and tighten. Use with an air hammer and 1/2" impact sockets.





## 47120 ROTARY WATERFALL DISPLAY

Feature Even More Tools in a Compact Space. Holds Over 170 Tools.

The compact, four sided display takes up less than 1 square yard of floor space while offering maximum card and tool exposure. Comes complete with hooks, plan-o-gram label strips, color-coded tool finder, and easy set-up instructions. The display is mounted on rollers for easy movement. A real money maker...increases impulse sales. The display rack is free. You buy only the tools. Also, drop-shipped and freight prepaid.



## 47600 LARGE GONDOLA DISPLAY

Use your Existing Gondola Space to Merchandise our Most Popular Specialty Tools.

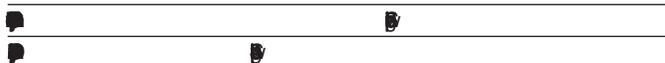
Feature over 145 tools in only 96" x 45". Display bars are compatible with most standard 4' high gondolas with 4' wide sections. The bars hang from the gondola pegboard. If your display area is taller, simply adjust the bars upward. Comes complete with 1" x 45" bars (2 sets of 7) with hooks, plan-o-gram label strips, tool finder, and header sign. The display is free, you buy only the tools. Also, drop-shipped and freight prepaid.



## 47500 GONDOLA DISPLAY

Display over 75 Tools, in only Four Feet of Valuable Gondola Space.

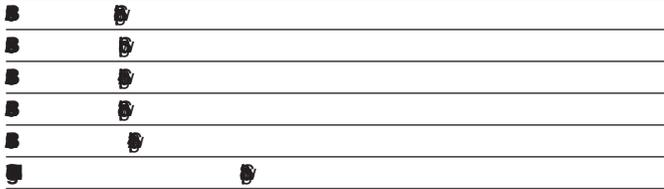
Display bars fit most standard 4' high gondolas with a 4' wide section. The bars hang from the gondola pegboard. Bars easily adjust to fit taller display areas. Comes complete with 1" x 45" bars (1 set of 7), plan-o-gram label strips, tool finder, easy set-up instructions, and header sign. The display is free, you buy only the tools. Also, drop-shipped and freight prepaid.



**PEGBOARD BARS**

Create a Custom Display.

Display bars fit into pegboard gondola displays or pegboard wall for universal application. Bars are 45" long to fill the pegboard area of a 4' gondola. Available in 1", 3", 6", 9" and 12" Sizes. Bars can be waterfalled to save pegboard space.



**48160 STOCKING TAGS**

Use These Handy Tags to Create Your Own Plan-a-Gram.

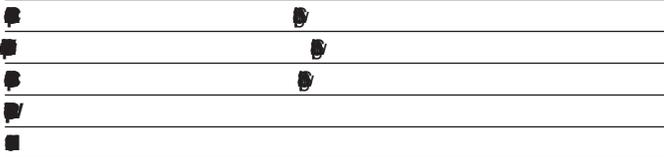
Universal tags help keep track of your specialty tool inventory and prompt you to reorder out of stock items. Tags can be used to add new tools that are not yet available on our displays. These stocking tags can be used to create your own custom display. Available in convenient pads of 100 tags with pre-drilled holes to fit pegboard hooks. Stocking tags are free.



**92102 93102 94102 LOW PROFILE PLASTIC CREEPERS**

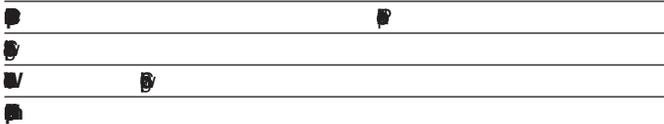
Built for Strength & Comfort

This body-fitting design was developed through testing on many body types to provide optimum comfort. Creeper body is 2" longer for a better fit. Urethane rollers are inserted into steel bushings which are molded into the creeper body. Provides added strength and easy roller replacement. Low profile, 7/8" floor clearance. Easy to clean surface is resistant to solvents, greases and fuels. Dimensions: Length 38", Width 17 1/2", Height 4".



**96302 42" PADDED LOW PROFILE STEEL CREEPER**

Our most comfortable creeper. A fully padded creeper on a 42" tubular steel frame. Pad is made of heavy-duty vinyl and offers maximum comfort. Comes with four 2" ball bearing wheels.



**92392 PADDED CREEPER WITH ADJUSTABLE HEADREST**

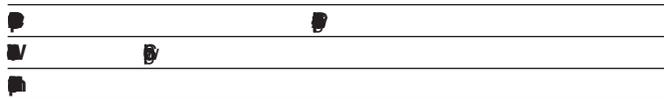
For The Ultimate In Comfort And Convenience.

Fully padded on the entire 42" length. The creeper body is constructed of tubular steel. The extra large headrest is adjustable to 5 different positions. Comes with four, 2" ball bearing wheels.



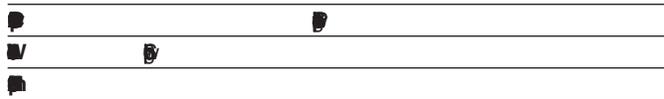
**96102 36" LOW PROFILE STEEL CREEPER**

Standard 36" length on tubular steel frame. Bed is high quality 1/2" plywood. Comes with four 2" ball bearing wheels for a smooth, easy glide.



**96202 42" LOW PROFILE STEEL CREEPER**

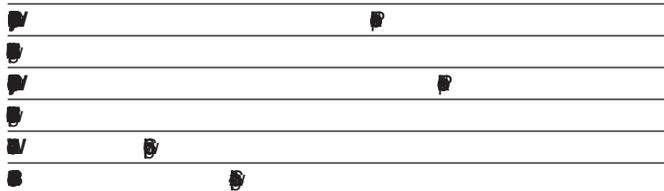
Quality 1/2" plywood bed on an expanded 42" tubular steel frame. Comes with four 2" ball bearing wheels and an extra large headrest.



**98302 98702 CREEPER SEATS**

With 2" Plastic Wheels.

These creeper seats are equipped with 2" wheels. Gives user a much smoother ride. Just right for all kinds of low work. Big 14" x 18" lower shelf for tools, test equipment, parts, etc. Perfect for brake service, body work, tire service, wheel balancing, etc.



## 97502 97602 STANDARD CREEPERS

Our Most Popular Wooden Models.

Standard Creepers feature bolted construction, five cross rails, vinyl covered, poly-foam headrest. Available with either plastic rollers or 3" steel rollers. 16" wide by 36" long.




## 97492 DELUXE CREEPER

For those who prefer a rugged creeper, this is the answer. Made of carefully selected 5/8" kiln-dried hardwood lumber. Comfortable poly-foam headrest covered with vinyl. Overall dimensions, 16" wide by 36" long. Equipped with 3" steel rollers.




## REPLACEMENT ROLLERS AND WHEELS

The 99702 3" steel rollers or 99802 2 3/4" engineering plastic rollers are utilized on our wooden creepers. As an option you can replace these rollers with our 97112 2" wheel with bracket. Both provide a lower profile effect. The 97112 2" wheel with bracket is standard on both of our creeper seats. The 96132 2" oil resistant plastic wheel is standard on all Lisle steel creepers. This low-profile wheel comes with a cap nut and lock washer to prevent loosening. The 92132 2" Pop-in Wheel is standard on our new style plastic creepers. The 96422 2" oil resistant plastic wheel was standard on all plastic creepers before late 1998. The 96422 wheel includes a cap nut 96552.


99702 3" STEEL ROLLER



99802 2 3/4" ENGINEERING PLASTIC ROLLER



97112 2" WHEEL WITH BRACKET



96132 2" OIL RESISTANT PLASTIC WHEEL



92132 2" POP-IN WHEEL

96422 2" OIL RESISTANT PLASTIC WHEEL

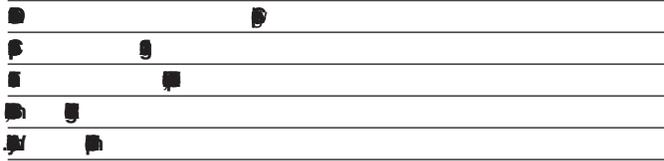


96422 2" OIL RESISTANT PLASTIC WHEEL

## 11102 8 GALLON OIL LIFT DRAIN

### Quick Release Height Adjustment.

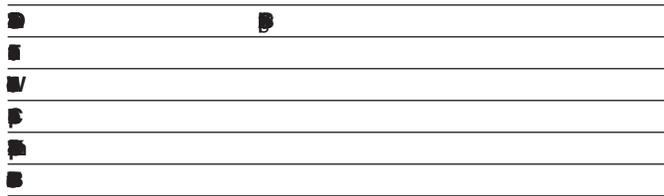
This specially shaped, translucent jug holds 8 gallons. Reinforced base will not warp with hot oil. Has a wide working range from 36 1/2" to 74". Its lower center of gravity increases stability and four 2 1/2" ball bearing wheels swivel and roll easily. Also has a heavy-duty adjustment clamp, large handle and big pour spout with threaded cap. Large 15" funnel has strainer built-in to catch drain plugs.



## 17432 18 GALLON OIL LIFT DRAIN

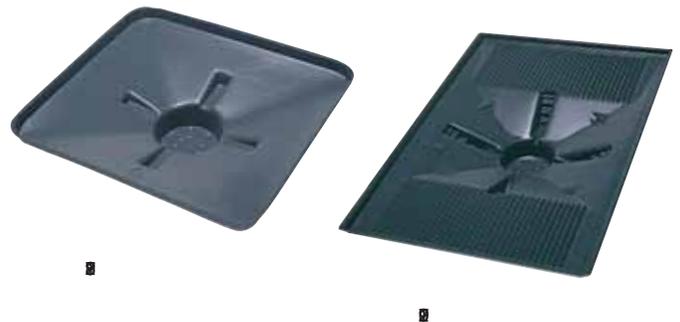
### Quick Release Height Adjustment.

Translucent jug holds 18 gallons and will not warp with hot oil. Rolls easily with four heavy-duty 2 1/2" wheels. Metal tubes extend working area from 36 1/2" to 77". Drains from the bottom with a brass drain valve. Large 15" funnel has a built in strainer to catch drain plugs. Optional 17442 Oil Pump Kit not included.



## 17892 17902 TRANSMISSION DRAIN FUNNELS

Heavy-duty plastic lift drain funnels extend the catch area of any lift drain. The funnel catches any loose parts. Flexible, if run over it will return to its original shape. Super Transmission Drain Funnel fits the Ford E 40D and others. The fluted design can be used for draining oil filters. 17892 dimensions, 22" x 23". 17902 extra large size, 24" x 36".



## 19802 TWO-PIECE, THREE-WAY FUNNEL

Use the large section and small section separately. Screw the two together for a long super funnel. The diameter of the smaller funnel is narrow enough to fit even the smallest applications including transmission filler holes.



**17912 55 GALLON DRUM DRAIN FUNNEL**

Designed to transfer liquids into a 55 gallon drum. The funnel drain sits on the top cover of 55 gallon drums. The funnel snout fits into the top bung hole for draining purposes. Four graduated circular indentations fit different oil filter sizes.




**19722 CATCH-ALL DRIP PAN**

Ideal for use on showroom floors, garages, carports, or under equipment. Made of durable polyethylene material to assure longevity and flexibility. Holds 8 quarts. Dimensions are 24" x 36" x 1 1/2".

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**19732 19752 6 QUART OIL DISPENSERS**

Translucent (see through) polyethylene material enables the user to read the liquid level on the container. Marked in both quarts and liters. The flexible 8" pouring spout enables easy transfer of liquid. The 19732 spout is white. The 19752 spout is red.




**17942 17952 4.5 GALLON OIL DRAIN PANS**

For easy transfer of liquids. High-density polyethylene material is resistant to chemicals and solvents, and is easy to clean. 1" wide diameter spout for quick and easy pouring. The anti-splash lip and baffles help prevent spilling when carrying or pouring. Comes with large, easy-grip handles. Two colors: 17942 is black for oil and 17952 is green for anti-freeze.




**17932 6 QUART DRAIN PAN**

Plastic drain pan with pour spout. The pan is 4" deep, 14" wide to the spout.

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## 17922 MULTI-DRAIN TUB

30 quart, heavy-duty, all-purpose plastic drain tub. For draining radiators, crankcases, transmissions, differentials, etc. on cars and trucks. Designed for easy pouring and disposal. The apron facilitates washing and sorting parts. Dimensions 33" x 22" x 8".



## 19122 TRUCK DRAIN ON WHEELS

Use This Heavy Duty Drain To Drain Large Capacity Crank Cases.

Holds 60 quarts. Equipped with 4 rollers & a handle for transport & positioning under trucks. The sides curve inward to keep oil from spilling during movement. Convenient handles & pour spout facilitate oil evacuation. Rolls under most all cab over axles so oil can be changed without jacks or jack stands. Overall height 10", width 24 1/2", length 43".



## 19772 1 QUART SPRAY BOTTLE

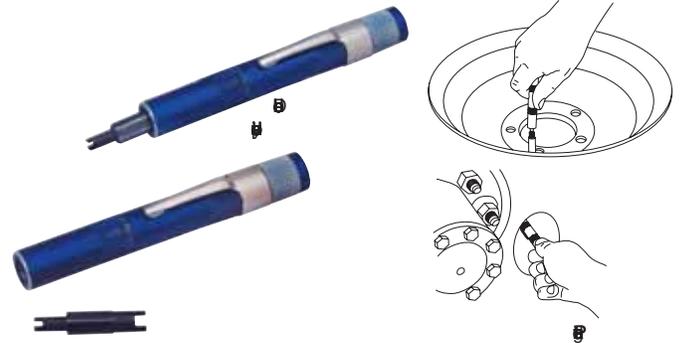
Industrial sprayer for use with light oils, solvents, and detergents. The durable polyethylene bottle is impervious to high and low temperatures. The trigger mechanism is resistant to damage caused by caustic materials.



## 14100 VALVE CORE TOOL

Removes And Installs Valve Cores And Valve Core Caps.

The double ended core driver reverses in the tool body. The reversible driver fits both large and small valve cores. Use the reverse end to remove and install valve core caps. The long tool handle will access inside dual wheels. The light-weight aluminum body is equipped with a pocket clip.



## 19852 TRUCK & TRAILER WHEEL PAN

Catches Oil from Wheel Hubs After Removing Cap.

Prevents oil mess during wheel repair. The pan fits rims with 13 3/4" ID and larger. Handle compartments hold hub nuts out of the oil. Made of polypropylene for durability. Will not warp if oil is warm. Capacity 88 ounces.



## 19822 TIRE / TUBE TEST TANK

A durable plastic tank for testing tubes and tires. The tank features reinforcement ribs for extra support. Will handle passenger tire sizes to wide oval and light duty truck tires. Dimensions 31" x 12" x 12".





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Important: This Catalog Supplement introduces new tools not included in Catalog T-72, Supplements T-73 through T-81.

## 56810 RELAY TEST JUMPER KIT

Set of Four Relay Test Jumpers Make Testing Relays or Live Circuits Quick and Easy.

Set includes four jumpers to fit the most popular size relays on domestic and import vehicles. Simply remove relay to be tested, insert correct jumper and insert relay into jumper. When using green four pin jumper be careful to align pins on jumper and relay correctly. No need to pierce wires or connect multiple jumper wires. Jumpers have tabs for clamping and flat pads to place test leads on. Set comes in blow-molded case for storage. Shipping wt. 9 oz.

56820 Yellow Jumper

56830 Red Jumper

56840 Blue Jumper

56850 Green Jumper



Patent 6,724,193

## 65450 PNEUMATIC REAR BRAKE CALIPER TOOL KIT

For Rotating Pistons Back into the Caliper to Provide Clearance for New Pads.

Pneumatic cylinder pushes adapter against brake caliper piston. Pivoting handle provides leverage to rotate stubborn pistons back into the caliper. Turn valve counterclockwise, then by hand, slide shaft with proper adapter to engage piston. Turn valve clockwise to turn on air pressure. Rotate piston back into brake cylinder clockwise or counter clockwise. Turn valve counterclockwise to release air pressure to remove tool. Includes 5 adapters for use in both 2- and 4-wheel disc brake assemblies of most domestic and import cars. Tool may be used "on" or "off" the car. Makes this tough job quick and easy. Pins on 2B Adapter are now smaller in diameter to fit newer Mazda 3 and Mini Cooper applications. Set comes in blow-molded case for storage. Shipping wt. 6 lb. 3 oz.

25080 1-1/2" Adapter

25110 1-5/8" Adapter

25130 1-7/8" Adapter

25150 2-1/8" Adapter

25170 2-1/2" Adapter

65390 3/8" Square Head Repair Kit

65420 Seal Repair Kit

65460 Pneumatic Tool (Boxed)

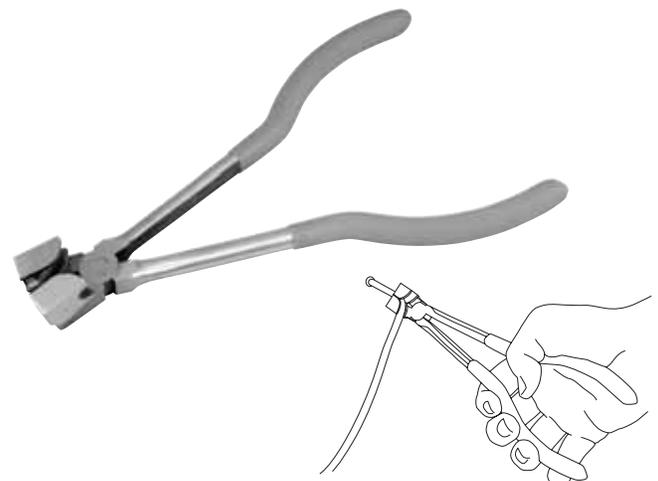


Patent Pending

## 44070 1/4" TUBING BENDER PLIERS

Bends 1/4" Brake Lines Without Kinking or Flattening, Especially in Tight Spots.

Bends all types of 1/4" OD tubing. Unique head design bends tubing without collapsing the tube. Won't mark tube surface. Handles are more than 3-1/4" apart and unique head design keeps handles in line with the tubing for proper leverage even when bending steel tubing. Shipping wt. 10 oz.

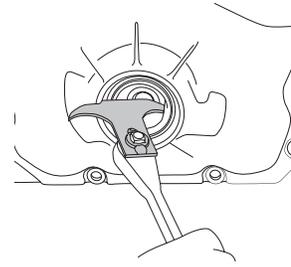


Patent Pending

**56920 LIMITED ACCESS SEAL PULLER**

Use With 3/8" Drive for Hard-to-reach Oil and Grease Seals.

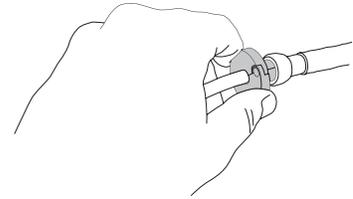
Simply insert hook behind seal and pull. Two hook sizes to fit most oil and grease seals. Can also be used with a breaker bar for extra reach or leverage. If the puller tips wear, resharpen on a grinding wheel. Shipping wt. 3 oz.



**39210 MAIN FUEL LINE DISCONNECT FOR TOYOTA AND NISSAN**

Disconnects the 5/16" Main Fuel Line from the Fuel Rail on Many Toyota and Nissan Vehicles.

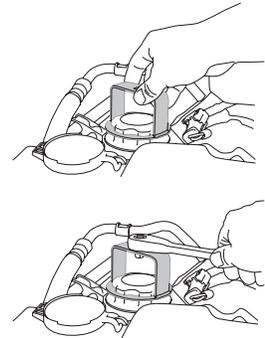
Hinged design and fully tapered end allow tool to be quickly and easily inserted into fuel line quick connector, even in hard-to-reach areas. Works on Toyota Echo, Scion xB, xA, TC, Solara, Corolla, Sequoia, Celica, RAV 4, Prius, Camry, MR2, Matrix, Tundra and Highlander. Also for 2004 and newer Nissan models with a 5/16" fuel rail. Shipping wt. 2 oz.



**34000 OIL FILLER CAP WRENCH FOR DODGE**

Fits Threaded Plastic Oil Filler Caps on Newer Dodge V8 Engines.

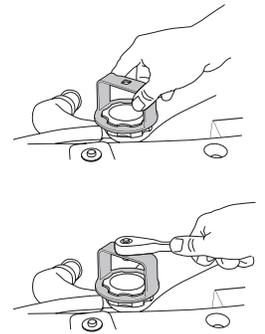
Helps loosen stubborn oil filler caps by providing leverage. Can be used with 3/8" square drive. Works great in hard-to-reach areas. For use on many Dodge Ram, Dakota and Durango as well as some Jeep Liberty, Grand Cherokee and Commander with threaded plastic oil filler caps. Shipping wt. 6 oz.



**24700 RADIATOR CAP WRENCH FOR GM**

Fits Threaded Plastic Radiator Caps on Newer GM Engines.

Provides an extra grip to remove stubborn radiator caps. Use with 3/8" square drive for extra leverage. For use on many Chevrolet, GMC, Pontiac, Oldsmobile and Buick vehicles with threaded plastic radiator caps including Cavalier, Malibu, Trailblazer & some pickups, Sunfire, G6, Alero and LeSabre. Shipping wt. 6 oz.



## 41400 STEPPED PICKLE FORK KIT

Step Design Helps Keep Tool from Bouncing Back When Separating Ball Joints, Steering Dampeners, Tie Rods, Pitman Arms and Other Applications.

Six tools in one. Three forks and two handles. Forks are threaded to interchange with either handle. One handle for hammering; one for use with an air hammer (.401" shank). Forks are heavy-duty heat-treated, alloy steel forgings. Steps can be resharpened if needed. Shipping wt. 3 lb. 13 oz.



41410 1-1/8" Stepped Fork	41420 11/16" Stepped Fork
41430 15/16" Stepped Fork	41510 Handle
41520 Pneumatic Driver	

Patent Pending

## 22100 FLYWHEEL LOCKING TOOL FOR 6.6L DURAMAX

Locks Flywheel in Place When Removing Harmonic Balancer on 6.6L Duramax Engines with Allison Automatic Transmissions.

Saves time by locking the flywheel at the transmission instead of having to remove the starter for water pump replacement. On 2500 and 3500 pickups, remove metal spring-loaded inspection plate on the bottom of the transmission. Tool should slide into opening toward engine with the top of the tool engaging the teeth of the flywheel. On 4500 and 5500 trucks, remove the rubber inspection cap on the bottom of the transmission. Insert the tool at the front of the opening to engage the flywheel and hand tighten bolt to hold tool in place. Use 36mm 12-point socket with 3/4" square drive to remove harmonic balancer bolt and retorque on installation.

Shipping wt. 2 lb.



22090 36mm 12 pt. Socket	22110 Duramax P/U Flywheel Lock
22120 Duramax 4500/5500 Flywheel Lock	22170 Socket Head Cap Screw

## 30120 LIGHTED MAGNETIC PICKUP TOOL

Bright LED Light in the Center of the Magnet Shines Light Where You Need It.

LED light makes it easy to retrieve ferrous objects in dark and confined areas. Telescopes from 7-3/4" to 32-3/4". Textured handle provides sure grip. Strong magnet lifts up to 5 lbs. Light requires three AG13 button cell batteries, included. Shipping wt. 3 oz.



## LISLE CORPORATION CURRENTLY PAYS ROYALTIES TO OVER 100 INDIVIDUALS.

If you have an original tool idea which others may need, Lisle Corporation is interested in evaluating your idea. Your idea may be produced and sold by Lisle Corporation under an attractive Award or Royalty Agreement that will bring you an income for years to come. If you have a new tool idea, follow these two simple steps:

1. Write Lisle and request an Idea Disclosure Agreement.
2. Return the signed agreement to Lisle along with your idea.  
Lisle Corporation will promptly evaluate your idea. You will then be notified whether or not Lisle will offer an award or royalty.

Award/Royalty Program  
Lisle Corporation  
807 E Main Street  
PO Box 89  
Clarinda, Iowa USA 51632-0089



**Dick Rulon** Avon, Connecticut  
Mr. Rulon's tool idea (our #70500 Tap Socket Set) is one of the more recent inventions that has been added to the Lisle tool line. This tool is ideal for use in areas where a T-handle won't fit. The set comes with 8 sockets that fit taps made to M.C.T.I. standards.

## 39800 MASTER PLUS DISCONNECT SET

Contains Popular Disconnect Tools for A/C, Fuel, Transmission, Oil Cooler and Air Lines.

A complete set of disconnect tools that can be stored in a handy blow-molded case. All disconnect tools are also available individually. Shipping wt. 1 lb. 11 oz.

22720 3/8" Jiffy-tite® Disconnect	22730 1/2" Jiffy-tite® Disconnect
34750 Low Profile Fuel Line Disc. Set	37000 AC/Fuel Line Disconnect Set
37500 Fuel Line Quick Disc. for GM	39400 Angled AC/Fuel Line Disc. Set
39930 5/16" x 3/8" Scissor Disc.	39940 Coupler Disconnect
39960 Ford Transmission Line Disc.	42090 Air Line Disc. Set



### Now Available SKIN-PACKED FOR DISPLAY: 39930 5/16" x 3/8" Scissor Disconnect

Fits most 5/16" or 3/8" fuel lines with spring lock connectors. Shipping wt. 3 oz.



Patents 5,455,995  
5,909,901, 6,195,862  
7,127,787, 7,350,282  
& 7,404,245

## 40400 MEMORY SAVER WITH LIGHT

Saves Memory Settings From Under the Hood.

Takes the place of traditional memory savers that use the power outlet, which no longer provides protection on newer vehicles since the outlet is switched. Without a battery attached, use the unique wire insulation-piercing tip on the red (positive clamp) to connect the memory saver to the main positive battery cable. Connect the black clamp to a ground source. The light will illuminate to indicate proper connection. Clamps can also be used on the back of the battery terminal connector. Connect a fully charged 9V battery (not included) and the vehicle is protected. Cord is 3 feet long. Shipping wt. 4 oz.

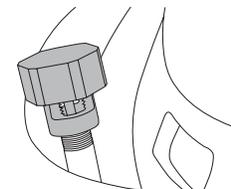


## 19860 TIRE DEFLATOR SET FOR TPMS VALVE STEMS

Quickly Evacuates Air from Tires Without Removing the Valve Core.

Simply replace a standard sized valve cap with this handy tool and the special design will depress the pin in the valve core. Large openings on the sides of the tool allow air to escape quickly from the tire. Tools are marked so tires can be returned to their original position on the vehicle so TPMS will not need to be reset. Also saves time since the valve core has not been removed from the sensor.

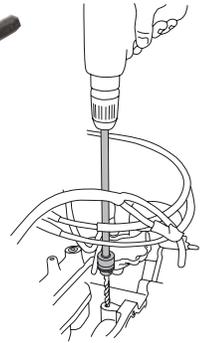
Shipping wt. 5 oz.



## 17450 12" DRILL EXTENSION

**A Handy Tool that Works Great in Tight Spots.**

Use the drill extension in any 3/8" or larger drill chuck and your drill will have an additional 12" of reach. The manual chuck will hold bits up to 3/8". Works well to drill out broken manifold studs on Ford Triton engines and other tough to reach applications. Shipping wt. 16 oz.



## 54990 END CAP FILTER WRENCH SET FOR ASIAN VEHICLES

**Set Includes 11 End Cap Wrenches.**

A collection of end cap filter wrenches for use on the most popular Asian vehicles such as Toyota, Honda, Nissan, Suzuki, Hyundai, Kia and more. Use with 3/8" drive. Shipping wt. 4 lb. 13 oz.

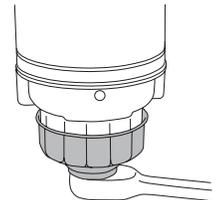
54370 74mm - 14 flutes	54380 82mm - 15 flutes
*54720 80mm - 15 flutes	*54740 74/76mm - 15 flutes
*54760 76mm - 14 flutes	*54780 93mm - 15 flutes
*54800 93mm - 36 flutes	*54930 65mm - 14 flutes
54950 88.4mm - 15 flutes	58340 76mm - 30 flutes
58330 68mm - 14 flutes	

\*Also available on a display card. Others are available mini-pouched.



## 54930 END CAP FILTER WRENCH FOR TOYOTA

For 65mm diameter oil filters and canisters with 14 flutes. Works on several Toyota applications including: Toyota Avalon '05 - '08, Camry '07 - '09, RAV4 '06 - '08, Sienna 3.5L '07 - '08, Tundra 5.7L '07 - '08, Matrix '09 and Corolla '09. Also Scion '08, Lexus GS, IS, LS '06 - '08, ES, RX '07 - '08 and Pontiac Vibe 1.8L '09. Shipping wt. 5 oz.



## 54980 END CAP AND FILTER SOCKET SET FOR EUROPEAN VEHICLES

**Set Includes 8 End Caps and 4 Sockets.**

A useful set of end cap filter wrenches and filter canister sockets for use on the most popular European vehicles such as BMW, Mercedes, VW / Audi and more. Use with 3/8" drive. Shipping wt. 5 lb. 5 oz.

13310 24mm Low Profile Hex	13320 27mm Low Profile Hex
*14500 36mm Low Profile Hex	*14700 32mm Low Profile Hex
54360 93mm - 45 flutes	*54740 74/76mm - 15 flutes
*54760 76mm - 14 flutes	*54780 93mm - 15 flutes
54940 86mm - 14 flutes	54970 96mm - 18 flutes
58330 68mm - 14 flutes	58350 86mm - 16 flutes

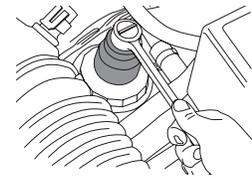
\*Also available on a display card. Others are available mini-pouched.



## 14500 OIL/FUEL FILTER SOCKET FOR 6.0L FORD DIESEL

Removes and Installs Filters on 6 Liter Ford Diesel Pickups.

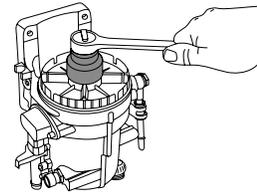
Fits both the 35mm and 36mm fuel and oil filters. The low profile socket works in confined spaces. 3/8" drive. Not for use with an impact wrench. Shipping wt. 4 oz.



## 14600 FUEL FILTER SOCKET, 5.9L CUMMINS

Helps Remove and Install Fuel Filters on 5.9 Liter Cummins Engines.

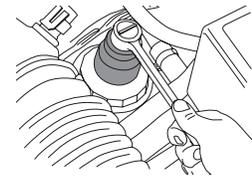
Use the low profile, 29mm socket on the raised hex on the fuel filter housing. 3/8" drive. Shipping wt. 3 oz.



## 14700 FUEL FILTER SOCKET FOR 2.2L GM

Low Profile to Fit Very Low Profile Applications.

Opens filter canister on 2.0L, 2.2L and 2.4L GM Ecotec engines. The low profile 32mm socket is specially designed for operating clearance. 3/8" drive. Shipping wt. 6 oz.



## 14650 FILTER SOCKET SET

Three Low Profile Sockets In One Convenient Case.

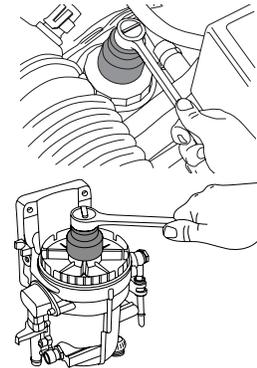
Can be used for a variety of filter housing applications. All sockets are 3/8" drive. Set includes:

**14500** - 35/36mm for Ford 6.0L Diesel Fuel and Oil Filter Housings, Mini Cooper and some BMW Oil Filter Housings, and Mack Truck Oil Filter Housing

**14600** - 29mm (1-1/8") for Dodge Cummins Fuel Filter Housing

**14700** - 32mm (1-1/4") for GM Ecotec, 2.0L, 2.2L and 2.4L Four Cylinder Oil Filter Housing; Some Saturn & Saab  
Shipping wt. 1 lb. 11 oz.

Available individually skin-packed.



## 13300 5 Pc. FILTER SOCKET SET

Set of 5 Low Profile Oil and Fuel Filter Canister Sockets in One Handy Case.

Contains very low profile, 6 point 24mm, 27mm, 29mm, 32mm and 35/36mm sockets for use on oil and fuel filter canisters when replacing the element. Use with 3/8" drive. Set includes:

**13310** - 24mm for Cadillac and some BMW

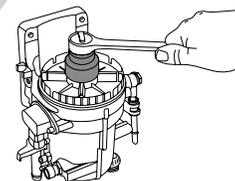
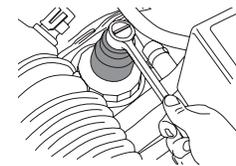
**13320** - 27mm for 2003 and later Mercedes 1.8L, Smart and some VW

**\*14500** - 35/36mm for Ford 6.0L Diesel Fuel and Oil Filter Housings, Mini Cooper and some BMW Oil Filter Housings, and Mack Truck Oil Filter Housing

**\*14600** - 29mm (1-1/8") for Dodge Cummins Fuel Filter Housing

**\*14700** - 32mm (1-1/4") for GM Ecotec, 2.0L, 2.2L and 2.4L Four Cylinder Oil Filter Housing; Some Saturn & Saab  
Shipping wt. 1 lb. 13 oz.

\*Available individually skin-packed. Others are mini-pouched.



New Design

Previous Design



New Lower Profile Design to Fit Tight Applications

## 59800 SERPENTINE BELT TOOL

Releases Tension on Serpentine Belts With a Spring Loaded Idler Pulley.

This tool is used to remove and install belts on serpentine belt systems using the spring loaded idler pulley. Fits idler pulleys requiring 13mm, 14mm, 15mm, 16mm, 18mm, 19mm hex and both 3/8" and 1/2" square drive sizes. For applications with limited access, 13mm and 16mm sockets are built into the handle. This tool covers most domestic and some import applications. Comes with extension for hard-to-reach idler pulleys. Eight low profile sockets and extension help to fit into tight spots. Includes 19mm socket for Honda and Toyota applications. Shipping wt. 2 lbs. 4 oz.

**SUPERSEDES 57900**

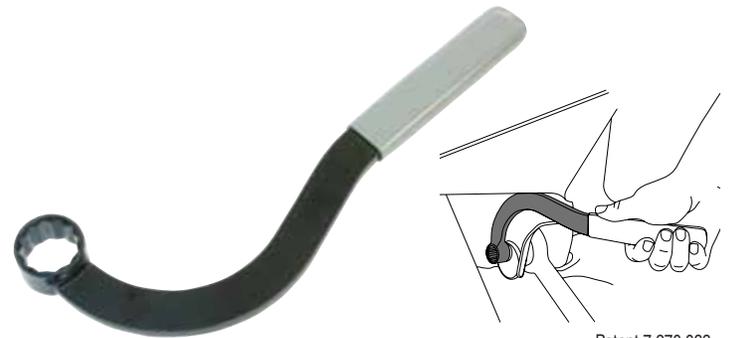


Part #	Description
57390	14mm Socket
57440	15mm Socket
57450	18mm Socket
57500	13mm Socket
57530	3/8" Square Drive
57560	1/2" Square Drive
57580	16mm Socket
59100	Extension
59140	19mm Socket
59780	Handle Assembly

## 41110 22MM CASTER / CAMBER WRENCH FOR FORD

For 22mm Aftermarket Replacement Applications Which Are Different Than the 21mm Original Equipment.

Unique shape and double-ended 22mm socket allow easy access to hard-to-reach caster / camber adjusting bolts. Shipping wt. 12 oz.



Patent 7,270,033

## 45450 BALL JOINT ADAPTER SET

For Removing and Installing Lower Ball Joint Without Removing the Wheel Knuckle.

Set of four adapters easily removes the ball joint from the control arm and presses in a new ball joint without damaging the ball joint stud or dust boot. The adapters allow the job to be done with the wheel knuckle still on the vehicle. Works on 1996-2006 Ford Taurus, 1996-2005 Mercury Sable and 1995-2002 Lincoln Continental. Use with the Lisle 43620 or any standard C-Frame. Shipping wt. 2 lbs. 5 oz.

45410 1-1/2" Adapter

45430 1-7/8" Adapter

45420 2" Adapter

45440 2-1/4" Adapter



## 41000 LEFT HAND REAR DISC BRAKE CALIPER TOOL

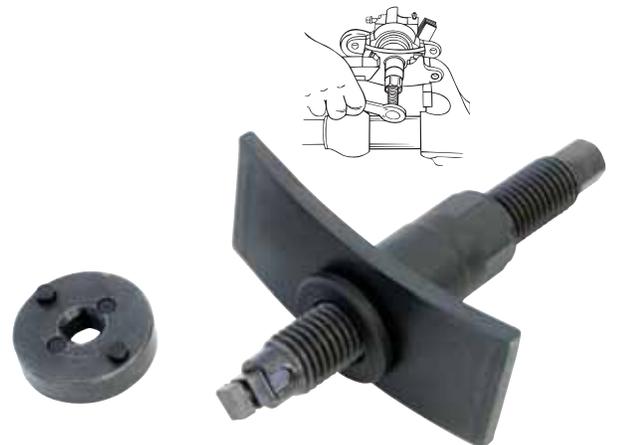
With Left Hand Threads for Ford Applications.

Winds back the rear disc brake piston into the caliper to provide clearance for new brake pads. Newer Ford applications use a left hand or counterclockwise thread. Turn with a 9/16" socket or wrench. Open bleeder valve or remove some brake fluid from master cylinder reservoir before retracting the piston. Also includes a two pin #1 Adapter to fit the following applications: Ford 500 '05 - '07, Ford Freestyle '05 - '07, Mercury Montego '05 - '07, and some Jaguar & Nissan. Shipping wt. 1 lb. 9 oz.

25040 Backing Plate

41010 Nut/Pusher Screw Assembly

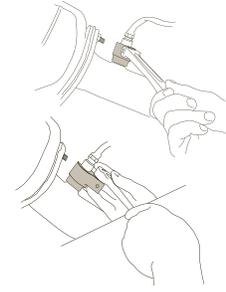
25080 1-1/2" Adapter



## 12390 DUAL DRIVE OXYGEN SENSOR WRENCH

Use with a Breaker Bar to Loosen Stubborn Oxygen Sensors.

Tool comes with both 1/2" and 3/8" drive. Attach a 1/2" breaker bar on the end of the tool to initially loosen stuck sensors. Use a 3/8" ratchet on the top for fast removal and installation. Fits oxygen sensor applications with a heat shield. Slotted body allows clearance for wire harnesses. Forged, heat-treated steel with six point design will withstand high torque removal applications. Shipping wt. 9 oz.



Patent Pending

## 33570 CENTER HUB CAP REMOVER

Removes Small Center Hub Caps Without Scratching or Damaging the Wheel.

Double-ended pry bar offers two lengths to fit most vehicles with center hub caps. Tool ends are dipped in PVC to protect wheel surface. Works on both metal and plastic center hub caps. Shipping wt. 4 oz.



## 65600 BROKEN SPARK PLUG REMOVER FOR FORD TRITON 3 VALVE ENGINES

Set Includes a Unique Porcelain Pusher Tool.

This tool set removes broken spark plugs from 2004 and newer Triton 3 valve per cylinder engines, (a common problem). The set includes a unique porcelain pusher tool and a tapered left-hand thread remover for removing the broken spark plug without leaving the porcelain in the engine cylinder. Porcelain pusher is used to press the porcelain piece, without breaking the porcelain, farther into the plug tip. This provides space for the left hand thread remover to bite into the stainless steel plug tip so it can then be pulled. Blow-molded storage case included.

Shipping wt. 2 lbs.

58980 Gasket (x4)	65610 Puller Housing
65620 Puller Screw	65660 Left Hand Hex Nut
65670 Porcelain Pusher Assembly	



Pushing Porcelain

Pulling Broken Plug



SPARK PLUG TIP

PORCELAIN

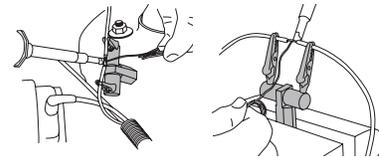
RING

Patent Pending

## 55000 MAGNETIC SOLDERING CLAMP

Offers an Extra Pair of Hands When Soldering.

Alligator clamps firmly hold wire and small parts when soldering. Flexible design allows different ways to attach and hold wire. Clips and base are magnetic and can be attached to any ferrous surface. Magnetic arms can be removed and used without the base. Base is also hex shaped and can fit in a vise when needed. Shipping wt. 3 oz.

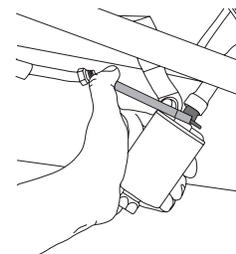


Patent Pending

## 34750 LOW PROFILE FUEL LINE DISCONNECT SET

Disconnects the Quick Connect Fuel Lines in Hard-to-Reach Locations.

3/8" adapters work on 5.3 liter Suburban, Tahoe, Yukon, Avalanche and select Silverados, Sierras and other GM fuel lines. 5/16" adapters work on Ford and Chrysler applications. Shipping wt. 5 oz.



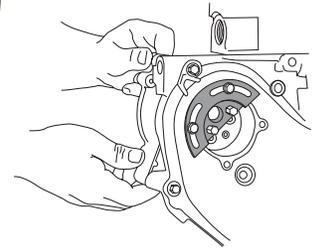
34740 5/16" Adapter Set (Blue)	34810 Handle
34830 3/8" Adapter Set (Gold)	

Patent 7,404,245

## 13800 WATER PUMP SPROCKET HOLDER FOR GM ECOTEC

Holds the Timing Chain and Gear in Place While Removing or Installing Water Pump on Ecotec Engines.

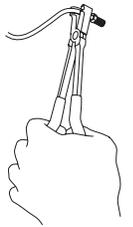
Securely holds water pump sprocket preventing loss of timing or damage to the engine. Special half-moon design allows easier access to water pump gear bolts. Uses access cover bolts to hold the tool in place. Shipping wt. 4 oz.



## 44150 3/16" TUBING BENDER PLIERS

Bends 3/16" Brake Lines Without Kinking or Flattening, Especially in Tight Spots.

Bends all types of 3/16" OD tubing. Unique head design bends tubing without collapsing the tube. Won't mark tube surface. The handles are more than 3-1/4" apart for proper leverage when handling even steel tubing. Shipping wt. 9 oz.



Patent Pending

## 19802 THREADED OIL/TRANSMISSION FUNNEL

Hands-Free Filling on Threaded Valve Cover Openings.

Two-piece design can be used separately or threaded together for a long super funnel. The larger section screws into threaded oil filler openings, found on many Ford pickups and Dodge, Jeep & Chrysler cars, mini vans & SUVs. This holds the funnel upright for quick, mess free oil fills. Also works on some Honda, Acura and Nissan vehicles. The diameter of the smaller funnel is narrow enough to fit even the smallest applications including transmission filler holes. Shipping wt. 4 oz.

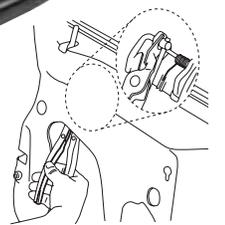
**UPDATED**



## 60000 OUTER DOOR HANDLE ROD PLIERS FOR IMPORTS

Removes the Outer Door Handle Rod from the Connector at the Handle.

Used to reach inside the door panel to remove the outer door handle rod, at the handle position, from the bushing when servicing the door. Long handle makes access to the bushing possible. Strong jaw and rod help to easily push the rod from the bushing. Also works on some other vehicles that use a rod and bushing assembly. Applications: Honda, Toyota and other import vehicles. Shipping wt. 16 oz.



## 62450 HEATER HOSE COUPLER REPAIR KIT

Removes Even the Most Corroded Heater Hose Couplers on GM Vehicles.

Kit contains a Heater Hose Coupler Remover that can be driven into couplers and then turned out with a 5/8" socket or wrench. When the coupler is extremely corroded the special tapered, reverse drill can be used to remove the remaining connector. Then the tap can be used to restore the original threads. For use on GM quick disconnect heater hose fittings found on many GM models using the 3.1L, 5.0L, 5.7L and 6.5L engines. Includes storage case with tray. Shipping wt. 10 oz.



62200 Heater Hose Coupler Remover

62260 Left Hand Piloted Drill

62290 Pipe Thread 1/2-14 NPT Tap

Patent 6,575,057  
& 6,511,267

## 46950 RELAY PULLER PLIERS

Pliers for Removing Electrical Relays on Most Domestic and Import Vehicles.

Offset handle and thin tips allow access to relays in confined areas. Specially designed tips are angled to fit slots or edge of relay cover. This allows relay to pop free from socket with less chance of damaging the relay. Also works on many heavy-duty and industrial applications. Shipping wt. 5 oz.



Patent Pending

## 13410 BRAKE CALIPER BRUSH

Cleans Brake Caliper Mounting Surfaces.

Removes brake dust, rust and other debris from brake caliper castings. Brush is made with heavy-duty steel wire and is angled to fit into tight places. Brush comes with molded handle grip for easy use. Shipping wt. 3 oz.



## 35440 BODY TRIM TOOL SET, 3 PIECE

Clip Remover helps remove door handle and window crank clips on GM, Ford and others using common "C" type clip. Upholstery and Panel Removers are designed for plastic fasteners. The stepped, square cutout in the tool tip provides a no-slip grip, even on fasteners with small ears. The bent handle design allows use where space is limited, and provides extra prying force. Shipping wt. 1 lbs. 4 oz.

35350 Door Panel Remover

35400 Door Upholstery Remover

54960 Window and Door Clip Remover

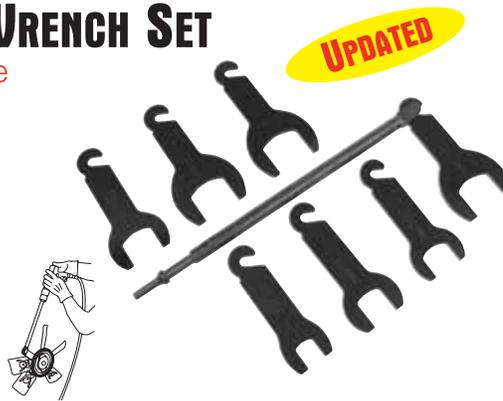


Patent D463,243

## 43300 PNEUMATIC FAN CLUTCH WRENCH SET

Updated Driving Wrench Assortment in Case

Quickly removes and installs fan clutch when repairing the water pump or fan clutch. Faster and easier than conventional fan clutch wrenches. No holding wrench is necessary. Set includes 7 driving wrenches that fit Ford, GM, Chrysler & Jeep. Set now includes 7/8", 32mm, 36mm, 40mm thin and new 47mm size to fit Ford 6.0L and 6.4L Powerstroke diesel pickup. 1-7/8" and 2" are still included in the set. 1-1/2", 41mm and 42mm are still available individually. Use with an air hammer. Includes blow molded storage case. Shipping wt. 9 lbs. 5 oz.



UPDATED

Part #	Description
*43370	Handle Assembly
*43380	32mm Driving Wrench
*43390	36mm Driving Wrench
*43410	1-7/8" Driving Wrench
*43420	2" Driving Wrench
*43430	7/8" Driving Wrench
*43440	40mm Driving Wrench
43450	42mm Driving Wrench
*43530	47mm Driving Wrench
43540	1-1/2" Driving Wrench
43550	41mm Driving Wrench
*Included in Set	

Patent 6,354,178

## 31320, 31330, 41670, 41690 & 41700 GEAR PULLERS

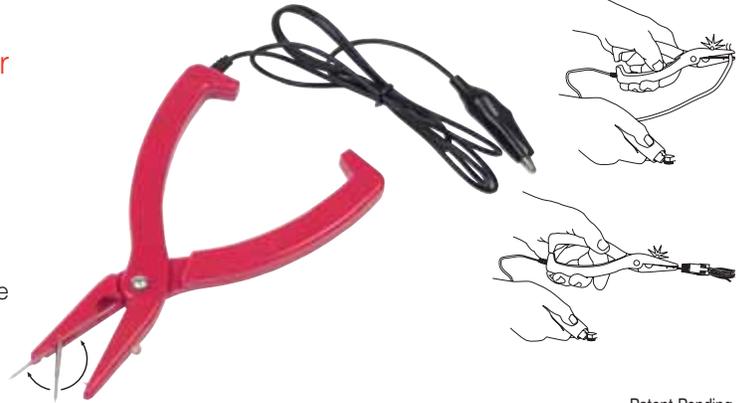
	31320 3 Jaw 2 Ton Puller	31330 2 or 3 Jaw Reversible & Adjustable 5 Ton Puller	41670 2 Jaw 2 Ton Puller	41690 2 Jaw Reversible & Adjustable 5 Ton Puller	41700 2 Jaw Adjustable 5 Ton Puller
Jaws	3	2 or 3	2	2	2
Reach	3-1/2"	5-1/2"	3-1/2"	5-1/2"	5-1/2"
Spread	4"	7"	4"	6"	6"
Tonnage Rating	2 tons	5 tons	2 tons	5 tons	5 tons
Adjustable	No	Yes	No	Yes	Yes
Reversible	No	Yes	No	Yes	No
Shipping wt.	1 lb. 6 oz.	2 lb. 15 oz.	15 oz.	2 lb. 3 oz.	2 lb. 4 oz.

## 28850 CIRCUIT TESTER PLIERS

Dual Probe/Computer Safe/Polarity Indicator  
Tests Low Voltage 6 to 28 Volts.

### Dual Probes

The first probe flips out enabling you to check hard-to-reach connections and can be flipped back when not in use. The second probe with centering V design allows you to penetrate the center of the wire every time. Fits 16 gauge and smaller wire. Safe for use on 12 volt automotive computer circuits. Tool draws less than 19 mA. at 12 volts DC with an operating range of 6-28 volts. Shipping wt. 3 oz.



Patent Pending

## 22710 DISCONNECT SET FOR JIFFY-TITE® CONNECTORS

Disengages the Line from Jiffy-tite Quick-Connect Fittings Without Removal of the Clip.

Handy spring-action of the stainless steel tool keeps the tool on the line and makes the tool easier to use. Teeth of the tool fit perfectly into tight tolerance of Jiffy-tite connectors and when rotated allow the line to be pulled without damage to the connector or retaining clip so they can be reused. Tools fit the most popular Jiffy-tite fittings found on oil cooler lines used on transmissions and radiators and on other applications.

Shipping wt. 12 oz.

22720 3/8" Jiffy-tite Disconnect	22730 1/2" Jiffy-tite Disconnect
22740 5/8" 39% Jiffy-tite Disconnect	22750 5/8" 30% Jiffy-tite Disconnect



### Applications:

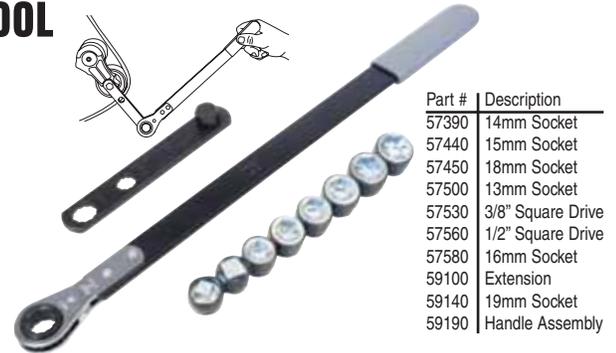
1996 and newer GM vehicles  
Many 2004 and newer Daimler Chrysler vehicles  
Some 2005 and newer Mercedes vehicles  
Harley-Davidson V-Rod  
Freightliner  
Peterbilt  
Volvo  
White

Patent 5,909,901

## 59000 RATCHETING SERPENTINE BELT TOOL

Releases Tension on Serpentine Belts With a Spring Loaded Idler Pulley.

Ratcheting head with **freewheel position** allows maximum leverage. Set ratcheting head to the middle or neutral/freewheel position and once maximum travel point is reached simply click lever into place to lock the ratchet mechanism. Comes with extension for hard-to-reach idler pulleys. This tool will work where conventional ratchets or breaker bars won't fit due to limited access. Now includes 19mm socket for Honda and Toyota applications. Shipping wt. 2 lbs. 10 oz.



Part #	Description
57390	14mm Socket
57440	15mm Socket
57450	18mm Socket
57500	13mm Socket
57530	3/8" Square Drive
57560	1/2" Square Drive
57580	16mm Socket
59100	Extension
59140	19mm Socket
59190	Handle Assembly

## 93402 GREEPER SEAT/STEP

Ergonomic Design With A 300 Lb. Capacity That Can Be Rotated Forward Onto Rubber Feet To Make A Stable 14" Tall Step.

Spacious storage tray below the seat keeps tools, test equipment and parts within easy reach. Perfect for brake and tire service, body work, etc. Wheels pop into tubular steel legs with an outrigger design for added stability.

Shipping wt. 21 lbs..

93392 Pop-In Rubber Feet (4 Pack)	93422 Pop-In Roller (4 Pack)
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## 54500 LARGE INNER TIE ROD TOOL

Works On Inner Tie Rods With Inaccessible Wrench Flats On Many Trucks and SUVs.

The long socket slips over tie rod end and crows foot engages on socket for easy removal and installation. This tool comes with four crows feet, sizes 1-7/16", 33.6mm, 38.4mm and 42mm, to fit many Toyota, Nissan, Ford, Lincoln, Mercury and Chevrolet truck and SUV applications. Also fits some Cadillac Escalade, Hummer H2, Honda Passport and Jeep Liberty applications. Shipping wt. 3 lbs. 4 oz.

ALSO AVAILABLE:

### 54490 40MM CROWFOOT FOR GM



Part #	Description
54510	Socket
54550	Retainer
54560	33.6mm Crowsfoot
54570	1-7/16" Crowsfoot
54580	38.4mm Crowsfoot
54590	42mm Crowsfoot

Patent 5,287,776

## 24610 SPILL-FREE™ FUNNEL

Saves Time! Eliminates Spills and Mess.

Improved. Includes threaded cap and adapter for newer GM "threaded style" radiator openings. The Spill-Free Funnel eliminates trapped air pockets which usually cause erratic cooling system and heater performance. It controls the proper amount of coolant entering system and enables unattended filling of the cooling system. The funnel eliminates squeaky belts caused by coolant overflow and protects the environment. Four adapters fit most domestic and import cars and light trucks. Angled neck allows use on radiator caps that are placed at an angle. Shipping wt. 1 lb. 8 oz.



22210 Funnel
22280 45° Elbow
22300 Fluid Stopper
22330 Large Cap A
22340 Medium Cap B
22370 Large Adapter A with Gasket
22390 Medium Adapter B with Gasket
22410 Small Cap C
22450 Small Adapter C with Gasket
24640 Threaded Cap D for GM
24650 Threaded Adapter D with Gasket for GM



Straight Neck Application

Angled Neck Application

Threaded GM Application

Patent 5,626,174

## 59900 HUB LOCK REMOVER PLIERS FOR FORD

Removes The Hub Lock on 4WD F-Series Super Duty Ford Pickups.

Pliers quickly and easily remove hub lock without damage to the hub lock cover. Pliers come with vinyl pads on the jaws to help grip the hub lock and prevent scratching of the outer surface. Fits '99-'07 F-Series 4WD Super Duty Pickups: F250, F350, F450 and F550. Shipping wt. 1 lb. 7 oz.



## 52990 SPARK PLUG PLIERS

Two Pulling Positions Help Make Removing Spark Plug Wires A Safe And Easy Job.

Specially shaped, cushioned jaws grip the boot straight on or from the side. Plastic handle grips help prevent shock. Shipping wt. 7 oz.

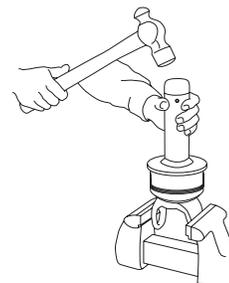


## 38060 AXLE SHAFT SEAL INSTALLER

Drives The Axle Seal Into Place on the Vacuum Operated Front Axles on 1998 to 2004 4-Wheel Drive Ford F-Series Super Duty Trucks.

Aluminum tool efficiently transfers striking power and is lighter and easier for the technician to use than other tools on the market. Use with a hammer to install the axle seal onto the axle shaft. Then press the axle shaft into the wheel knuckle to help prevent vacuum leaks. Cap is made of steel so it can be replaced if needed. Shipping wt. 4 lbs. 6 oz.

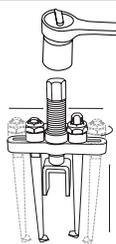
38070 Cap



## 59550 ADJUSTABLE OVERHEAD VALVE SPRING COMPRESSOR

New, Easily Adjustable/Sleek Design Fits More Applications.

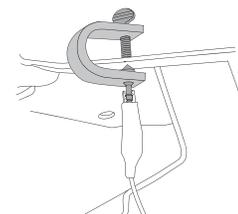
Jaws easily adjust for both offset and spacing to quickly fit and remove valve springs on overhead valve engines. Compressor comes with a turning knob that can be removed and replaced with a wrench for tight spots. Shipping wt. 11 oz.



## 55400 GROUNDING CLAMP

Provides a Better Ground Connection.

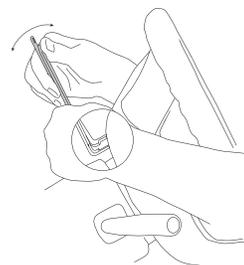
Use with circuit testers, continuity testers, multimeters and other testers when a good ground is needed. Sharp tip on clamp penetrates rusted or painted metal surfaces. Shipping wt. 4 oz.



## 55150 AIR BAG RELEASE TOOL FOR GM

Easily Release SIR Module Retention Springs on GM Cars, Minivans and Light Trucks.

Unlike other air bag release tools this tool is heat-treated to resist bending on truck retention springs. Tips of tool are tapered to make removal easier. Shipping wt. 5 oz.



## 51450 HARMONIC DAMPER PULLEY PULLER

For Chrysler, GM, Mitsubishi and Dodge.

Low profile design works in confined spaces eliminating the need to remove the radiator. Equipped with magnetic jaw spacers for 5.9 liter Dodge. New jaw geometry, slimmer magnetic spacers and a fourth rod allow use on 4.2L Trailblazer, Envoy and Bravada '03 and newer, 4.2L Buick Rainier '04 and newer, 3.5L Colorado and Canyon '04 and newer, Hummer H3 '06 and newer, 2.8L Colorado and Canyon '05 and newer. Jaws are now held in place with a clevis pin and can be removed and replaced easily. Shipping wt. 2 lb. 11 oz.

**UPDATED**  
**SUPERSEDES 49500**



49520 Clevis Pin

51640 Jaw

51670 Magnet and Housing Assembly

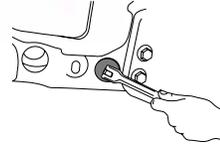
51680 6.5" Rod

Patent 6,665,918  
& Patent Pending

## 32510 CASTER/CAMBER ADJUSTER FOR GM

Adjusts Both Caster and Camber Wheel Alignment on Some GM SUVs.

The unique eccentric design allows for fast, accurate adjustment of the lower control arm, which adjusts both the caster and camber settings. The tool then holds the adjustment and prevents slipping while tightening mounting bolts, unlike pry bars and other similar tools. Use with 1/2" drive. Shipping wt. 14 oz.



- Applications:
- 04-07 Buick Rainier
  - 02-07 Chevrolet Trailblazer
  - 02-07 Chevrolet Trailblazer EXT
  - 03-06 Chevrolet SSR
  - 02-07 Chevrolet Envoy
  - 07-07 Chevrolet Envoy XL
  - 04-05 Chevrolet Envoy XUV
  - 02-04 Oldsmobile Bravada
  - 03-07 Isuzu Ascender
  - 03-07 Isuzu Ascender EXT
  - 05-07 Saab 9-7X

Patent Pending

## 51700 HARMONIC BALANCER PULLER SET

Updated Jaw Design On Damper Puller Provides Even Greater Strength. Clevis Pins Allow Jaws To Be Quickly Removed and Replaced.

This kit features the puller hardware and special pulling screws to remove most automotive harmonic balancers. The kit includes a standard harmonic balancer puller, pulling screws and adapters for 3300 and 3800 GM V6 engines, and our updated harmonic damper pulley puller for Chrysler, GM, Mitsubishi and Dodge. Shipping wt. 8 lb.

**UPDATED**  
**SUPERSEDES 49650**



Harmonic Damper Pulley Puller

Magnetic Jaw Spacers for 5.9L Dodge

Traditional Harmonic Balancer Puller

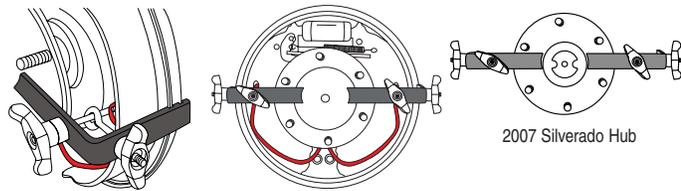
Puller with Shoulder Bolts for 3300 and 3800 GM V6

Patent 6,665,918 & Patent Pending

## 50600 SINGLE-SPRING BRAKE TOOL

Modified Bracket Now Fits 2007 Silverado/Sierra Applications.

Releases Tension on Both Large and Small GM Single Spring Brakes During Servicing. Many GM brakes use a heavy single spring. The 50600 engages the spring and quickly releases the spring tension. The brake can then be disassembled to replace brake shoes, emergency brake cable or service the brake cylinder. Also works on older C & H body vehicles with single brake springs. Shipping wt. 1 lb. 11 oz.



2007 Silverado Hub



**IMPROVED**

Patent 7,032,280

### 50150 Bracket - Updated Requires 2

Applications		
Smaller Spring	1991 to current GM H Body Bonneville, LaSabre Delta 88 1995 to current Chevrolet Lumina & Monte Carlo	1992 to current GM C & H Body Buick Electra Olds 88 Cadillac Fleetwood Cadillac DeVille Chevrolet Lumina APV Pontiac Trans Sport Olds Silhouette
Larger Spring	2005 to current Chevrolet Silverado 2004 to current Chevrolet Colorado Including 2007 Models	

## 32900 HEAVY DUTY CIRCUIT TESTER / JUMPER

A 2-in-1 Tester that Tests Circuits up to 28 Volts and Works as a Jumper Wire for Power or Ground.

Heavy-duty circuit tester for checking low voltage up to 28 volts. By depressing the red button the tester becomes a jumper for powering electrical components or a ground. The probe, handle, cord and clamp are reinforced for durability. Comes with a strain relief spring on the cord. Shipping wt. 7 oz.



28440 Replacement Bulb

## 51200 SWIVEL JAW FILTER WRENCH PLIERS

Jaws Swivel 90° in Either Direction to Access Most Oil and Fuel Filters.

Works where other oil and fuel filter pliers and wrenches don't. Jaws adjust to 7 positions, (30° increments) to fit most applications. Slip-joint handle offers a big range from 2-1/4" to 4-3/4" (57mm to 120mm). Sure grip teeth prevent slipping. Cushioned handles provide comfort. Shipping wt. 1 lb. 11 oz.



Patent 7,156,004

## 31140 23" FLEXIBLE RETRIEVING TOOL

Picks Up Loose Parts in Hard-To-Reach Areas.

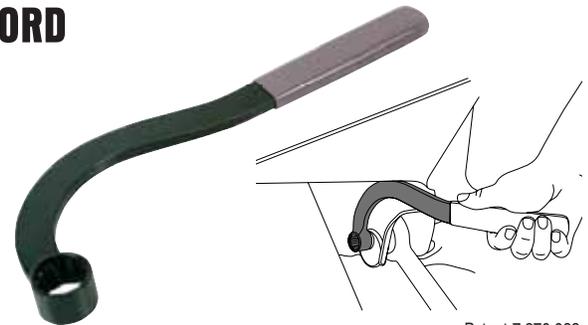
23" flexible cable allows you to get into hard-to-reach areas. Simply push button on handle and fingers open 3/4" to grab small parts that you can't reach by hand. Shipping wt. 3 oz.



## 41600 CASTER / CAMBER WRENCH FOR FORD

Tool Adjusts Both Caster and Camber Wheel Alignment on Ford Trucks and SUVs.

Unique shape and double-ended 21mm socket allow easy access to hard-to-reach caster / camber adjusting bolts. 12 point, 21mm socket fits the following applications: 1998-2001 Explorer 2WD, 4WD & AWD, 1998-2006 Ranger 2WD & 4WD, 2000-2003 Explorer Sport 2WD & 4WD, 2001-2005 Explorer Sport Trac 2WD & 4WD, 1997-2003 F-150 2WD & 4WD, 1997-2002 Expedition 2WD & 4WD. Also fits: 1997-1998 Chevrolet K1500. Shipping wt. 12 oz.

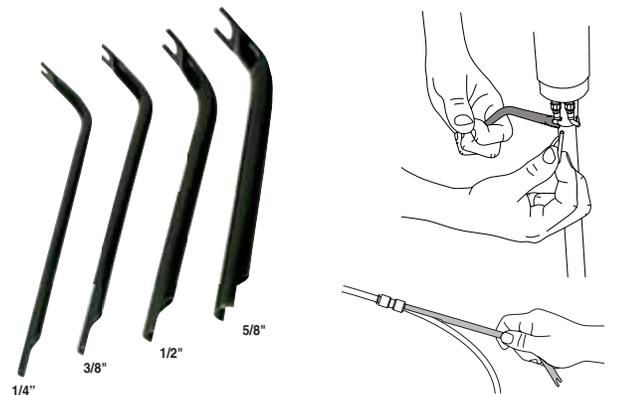


Patent 7,270,033

## 42090 AIR LINE DISCONNECT SET

Disconnects Quick Connect Push-in Connectors Found on Heavy-Duty Truck Air Systems.

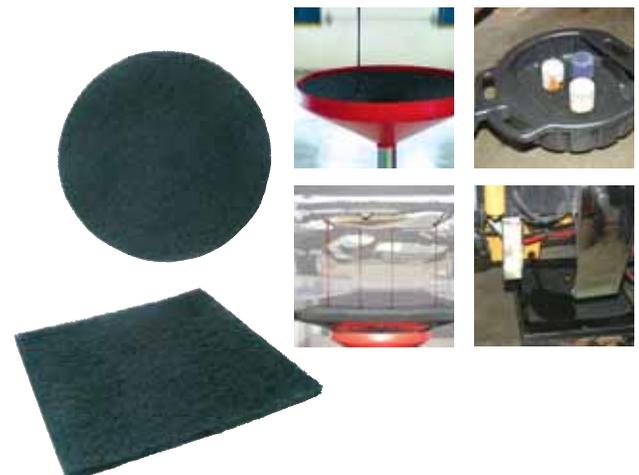
Disconnects air systems on brakes, suspension, steering, engine, transmission and other auxiliary equipment. Also disconnects other quick connect push-in fittings, including: flow control valves, check valves, shuttle valves, quick exhaust valves and other function control fittings in compressed air systems. Set comes with four popular sizes: 1/4", 3/8", 1/2" and 5/8". Each tool is double-ended to disconnect air lines even in hard-to-reach areas. Angled end allows maximum leverage. Smaller end fits in tight spots. Shipping wt. 13 oz.



## 38750 & 38780 NO SPLATTER PAD

15" Diameter Pad & 22" Square Pad Protects Floors & Work Area from Messy Oil Splatter.

Insert 15" diameter pad in funnel or oil pan before oil change, or insert 22" square pad in transmission drain funnels or larger oil drain pans, before oil change to eliminate oil splatter. Porous material allows fluid to quickly pass through into funnel or pan. Pad material resists engine oil, transmission fluid, coolant, brake fluid, brake cleaner, gear oil and other solvents. 15" fits all standard oil lift drain funnels and oil pans. 22" fits all standard transmission drain funnels and larger size drain pans. Pad can be trimmed for perfect fit. Important: Not for coolants or fluids that will be recycled in the vehicle. Material fibers may contaminate the fluid.



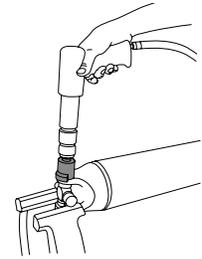
38750 8 per Master Pack. Shipping wt. 8 oz.

38780 6 per Master Pack. Shipping wt. 1 lb. 6 oz.

## 18980 PNEUMATIC U-JOINT DRIVER

Quickly Removes the U-Joint Cap from the Drive Shaft on Most Rear Wheel Drive Vehicles.

Use the driver with an air hammer to remove u-joint caps up to 1-5/16" diameter. Prevents damage to drive shaft and axle shaft ears, when presses or chisels are used. On some vehicles the u-joint is retained with plastic from the factory. The plastic must be removed prior to driving out the u-joint caps. Shipping wt. 1 lb. 4 oz.



Patent 7,356,899

## 18810 VALVE CORE TORQUE TOOL

Properly Installs and Removes Valve Cores, Including Late Model Vehicles with the Tire Pressure Monitoring System (TPMS).

Torque tool is set to 4 inch pounds, to prevent under and over torquing the valve core. Helps prevent valve core leaks causing low tire pressure and possible TPMS alerts. Slim design allows access in tight spots. Shipping wt. 4 oz.



## 44480 & 44500 HOSE CLAMP VISES

Vise Design Fits in Tight Spots. 44500 is 3" Long and Opens to 1-1/2". 44480 is 3-5/8" Long and Opens to 2-1/8".

Tools are used to relieve clamp spring pressure in very tight spots. Vise is often left in place, with the clamp compressed, during service. Ramp on jaws guides tab of clamp into correct position and traps it in the slot for safety. Tighten knurled knob by hand or use 1/4" drive ratchet. Compact design works great in confined spaces. The small size works especially well on heater hose clamps. Shipping wt. 5 oz. each.



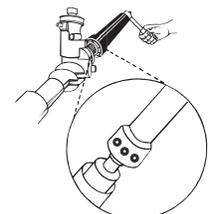
Patent Pending

## 46600 UNIVERSAL INNER TIE ROD WRENCH

Removes Inner Tie Rods Equipped with a Completely Round End Socket. Also Fits Inner Tie Rod Sockets with Flats.

The universal wrench is designed to remove and install all inner tie rod sockets up to 1-31/64" regardless of the rod socket configuration. The wrench head has three set screws that tighten against the rounded tie rod socket or socket flats. Comes with a 1/4" short head hex wrench for tightening set screws in hard-to-reach areas. Use 1/2" drive. No-flat applications include: '00-'03 Dodge Neon, '00-'01 Plymouth Neon, and '01-'03 Dodge & Chrysler Minivans. Also fits some no-flat applications on Ford & Nissan.

Shipping wt. 2 lb. 7 oz.



46570 1/4" Short Head Hex Key

46620 1/2-20 Socket Head Set Screw

Patent 7,313,988

## 28950 TRUCK WHEEL STUD INSTALLER

Installs Most Truck Wheel Studs in Seconds.

Use with an impact wrench or ratchet. The tool body is equipped with a thrust bearing to easily pull the new wheel stud into place. Fits truck wheel studs up to 22mm (7/8") in diameter. Use the lug nut to tighten against the tool body to pull the stud in position.

Shipping wt. 9 oz.

**28970 Replacement Bearing and Dust Shield**



Patent 7,421,769

## 49960 LOCKING AIR TOOL HOLDER

Organize Air Tools with this Lockable Tool Holder

Tool can hold up to five pneumatic tools in a 10" space. Comes with five slots that fit all popular quick connect fittings from Milton, Lincoln, Amflo and others. Can be mounted on a tool box, cart or wall for easy access. Locking feature protects your air tools from theft (provide your own lock). Durable powder-coated finish. Shipping wt. 13 oz.



## 33820 STABILIZER LINK KIT

Removes the Stabilizer Link to Replace Struts.

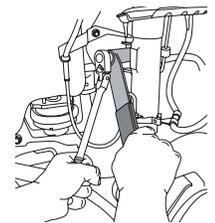
Easily removes the top steering stabilizer link so the strut can be replaced. Shipping wt. 1 lb. 4 oz. Set includes:

**34160** - 8mm Socket: Taurus, Sable, Windstar '96-'04; '04 and newer Ford Trucks, Expedition, and Excursion; '93-'97 and '99-04 Intrepid, Concorde

**33890** - 6mm Hex Bit: '02 and newer GM Suburban, Tahoe, Yukon, and Trailblazer

**26620** - T-40 Torx® Bit: Dodge & Chrysler Minivans

**26630** - T-45 Torx® Bit: Volvo



Patent 7,261,017

## 36050 VALVE KEEPER REMOVER & INSTALLER KIT

Quickly Removes and Installs Valve Keepers On Most Overhead Valve Engines With Valve Stems From 4.5 to 7.5mm and 5/16" to 3/8".

Makes valve component disassembly and reassembly fast and easy. Push or tap tool with a hammer to remove valve keepers. Magnet in tool body captures keepers for quick removal and valve disassembly. To install keepers, load in retainer on valve stem, then push or tap handle to install. Can be used on the car or bench. New smaller size works on Toyota four cylinder and Chrysler New World Engine applications. Shipping wt. 2 lb. 4 oz.



## 19712 8 qt. OIL DISPENSER

An Even Larger Size for Trucks, SUVs and Other Engines with Greater Oil Capacity.

A larger version of the 6 qt. (19732) Oil Dispenser with flexible pouring spout. Many large SUVs and trucks now require more than 6 quarts of oil and the smaller dispenser is not large enough to transport bulk oil. Translucent polyethylene material enables the user to read the oil level on the container up to 8 quarts. Marked in both quarts and liters. Flexible, removable 8" pouring spout enables easy transfer of liquid. Shipping wt. 7 lb. 8 oz. - Master Pack of 4.

**19742 Funnel & Cap.** Shipping wt. 1.3 oz.

**19792 Black Cap.** Shipping wt. 1 oz.



## 34350 WATER SENSOR WRENCH FOR DURAMAX

Removes & Installs the Water Sensor on 2001 and Newer 6.6L Duramax Diesel Engines.

Use when replacing the fuel filter or when servicing the water sensor. Plastic sensor has a 12 sided design that is easily damaged by tools, like pliers, that do not specifically fit the sensor. Shipping wt. 7 oz.



## 22800 WHEEL STUD INSTALLER

Easily Installs New Wheel Studs.

Use with a ratchet or impact wrench to pull the new stud securely in place. Position the tool over the stud shaft. Tighten the lug nut against the tool to pull the stud in place. Works on most all automotive and light-duty truck wheel studs, foreign and domestic. NOTE: The bearing will wear with use and is not warranted. Shipping wt. 5 oz



Patent 7,421,769

## 59400 PINION BEARING RACE DRIVER SET

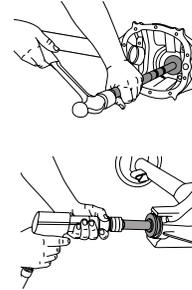
Set Includes 8 Drivers for Driving Inner and Outer Pinion Bearing Races on 1/2 & 3/4 Ton Ford, Dodge and GM Pickups.

Use the extended, two-piece handle for driving rear pinion bearing races. A pneumatic handle is also included for use with an air hammer. Shipping wt. 7 lb. 6 oz.

12820 Pneumatic Handle

59540 Handle

59530 Handle Extension (with Tapped Hole)



Driver No.	Size
59410	2 11/16"
59420	2 27/32"
59430	2 7/8"
59440	3"
59450	3 1/4"
59460	3 1/2"
59470	3 3/4"
59480	4 1/8"

Patent Pending

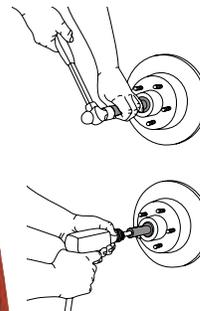
## 12800 MASTER PNEUMATIC BEARING RACE & SEAL DRIVER SET

This Master Set Contains 11 Drivers to Fit Automobiles and Trucks up to 1 Ton.

This set also includes 2 handles, one for hammering and a pneumatic handle for use with an air hammer. Use the tapered driver side for bearing races; reverse to the flat side for seals. To add the pneumatic handle to your current set order a 12820 pneumatic driver. Molded case. Shipping wt. 6 lb. 11 oz.

12820 Pneumatic Handle

12730 Handle



Driver No.	Size
12610	1.565
12620	1.750
12630	1.965
12640	2.325
12650	2.555
12690	2.830
12700	2.995
12710	2.470
12810	4.625
12930	3.813
12970	3.180

Patent Pending

## 17850 AXLE SEAL INSTALLER FOR FORD

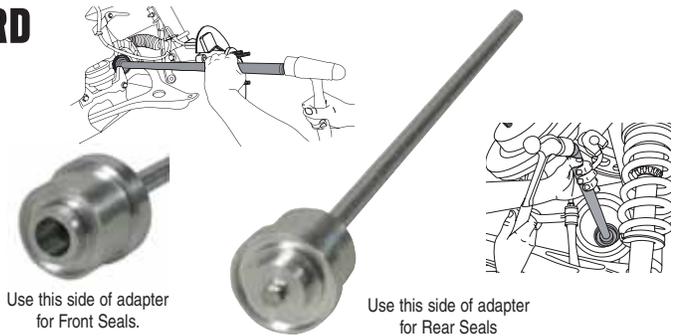
Installs Front Seals and Rear Axle Seals on Ford Vehicles.

The double ended adapter installs both front and rear seals. A long 27 3/4" handle reaches beyond suspension components to make hammering easier. The adapter is bored to fit over the axle stub. Shipping wt. 3 lb. 9 oz.

**Front Seals:**

Continental '88-'02	LN-7 '82-'83	Sable '86-current	Aviator '03-current
EXP '86-current	Lynx '81-'87	Taurus '86-current	Expedition '03-current
Escape '03-current	Mariner '03-current	Topaz '84-'94	Explorer '02-current
Escort '81-'90	Mazda '03-current	Tribute, automatic	Mountaineer '02-current
Freestar '04-current	Monterey Van '04-current	Windstar '03-current	Navigator '03-current

**Rear Seals:**



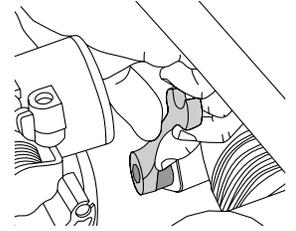
Use this side of adapter for Front Seals.

Use this side of adapter for Rear Seals

## 31050 INNER TIE ROD BUSHING SOCKET FOR CHRYSLER

**Fits Where Conventional Sockets Cannot.**

Removes 7/8" or 22mm hex headed bolt that attaches the inner tie rod bushing to the rack & pinion on '93-'04 Concorde, LHS and Intrepid. Low profile for easy access. Use with 5/8" box-end wrench or ratcheting wrench to allow maximum clearance. Shipping wt. 2 oz.



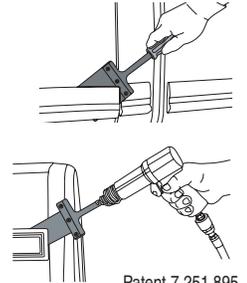
## 59250 MOLDING REMOVER SET

**Quickly Removes Body Moldings.**

Two spring steel blades, 2" and 3 1/2", are included for all sizes of body moldings. Use with the conventional handle, or for tough jobs, attach the pneumatic driver for use with an air hammer set at 40 psi or less. The replaceable blades flex to follow the body contour. Shipping wt. 9 oz.

59300 3 1/2" Blade

59310 2" Blade



Patent 7,251,895

## 45750 INNER TIE ROD TOOL

**Includes an Additional 1 1/2" Crows Foot for Chevrolet Colorado and GMC Canyon.**

Works on tie rods with inaccessible flats. Many inner tie rod end sockets do not have a complex hex on the full length of the socket. The rounded socket ends prevent access to the wrench flats. This tool utilizes six crows feet to engage the wrench flats. Long socket slips over tie rod end and connects to the crows foot. The inner tie rod can be removed and installed without removing the rack. Shipping wt. 3 lb. 6 oz.



**NEW 6TH SIZE**



46270

46280

Patent 5,287,776

**ALSO AVAILABLE:**

**46270 & 46280 29MM & 32.5MM CROWFOOT**

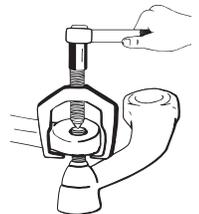
29mm size works on Toyota, 32.5mm size works on Ford.

## 41970 PITMAN ARM PULLER

**For 2005 and Later Ford F250 & F350.**

A heavy-duty puller for the large Pitman arms on Ford 250 and 350 trucks. Jaws are forged and heat-treated for strength. Position puller jaws under the Pitman arm, turn center screw to remove. Shipping wt. 3 lbs.

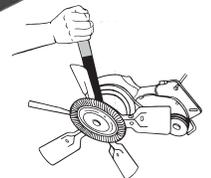
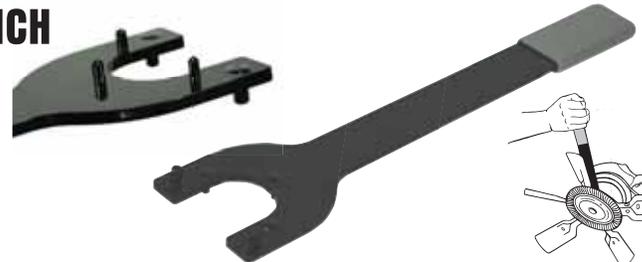
41910 Puller Screw



## 44180 FAN CLUTCH SPANNER WRENCH

**For GM, Jeep and Dodge Trucks, Vans and SUVs With Pressed on Water Pump Pulleys.**

The double-ended spanner wrench fits the holes in pressed-on water pump pulleys. Hold the pulley firm with the spanner wrench. Use the appropriate open end wrench to turn the fan clutch nut (41740 36mm turning wrench works on many applications). Shipping wt. 2 lb. 3 oz.



## 39510 30MM 12PT AXLE NUT SOCKET

**Removes and Installs Axle Nuts and Automatic Transmission Tail Output Shafts.**

Heat-treated alloy steel, impact quality, extra deep, 1/2" drive. Shipping wt. 1 lb. 4 oz.

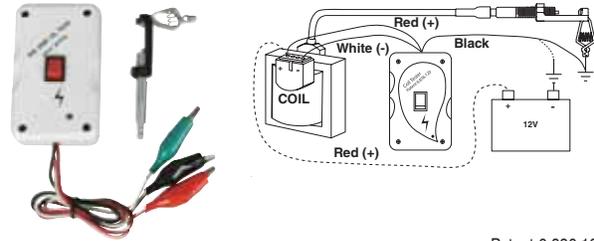
**Applications:** Chrysler- 300C, Crossfire 2004, Dodge- Freightliner Sprinter vans with 215mm rear axle 2004 and up, Magnum 2004, Jeep- Grand Cherokee V6 models 2005, Lexus- ES300, Pontiac- Vibe, Mercedes- many models, Toyota- Avalon, Camry, Highlander, Matrix, VW Beetle, Jetta, Golf 1999 and up.



## 50660 COIL TESTER

Quickly Check Ignition Coils.

Use on the car or on the bench to accurately test ignition coils. To check an ignition coil, connect the tester to the coil. Set the spark tester (included with the tool) at 30kV gap. Turn on the ignition, then press and release the coil tester switch. A functional coil will produce a spark that bridges the 30kV gap on the spark tester. Shipping wt. 5.5 oz.



Patent 6,836,120

## 46170 HOOD PROP

Includes a Support to Help Prevent Slipping.

The tool includes our standard 45900 Hood Prop plus a support to help prevent the bottom of the tool from slipping. The three piece telescoping shaft locks in any position to hold hood to the desired height. The tool with the support telescopes from 20" to 48 1/4". Place the support over a hood adjuster. Then set the hood prop base into the holding support. Shipping wt. 2 lb. 4 oz.



Patent 6,195,862

46180 Hood Prop Support

45980 Large Rubber Tip

45710 Repair Kit

45990 Small Rubber Tip

## 58430 SHAFT IN SEAL PULLER

Removes Cam Shaft and Crank Shaft Seals Without Damage to the Shaft.

Engage the adjustable hook behind the seal. Brace the push rod against the engine head and push the handle to remove the seal. Removes the seal without damage to the shaft. Shipping wt. 6 oz.



Patent Pending

58500 Hook

## 27530 T-70 TORX® BIT

New Larger Torx Bit Size.

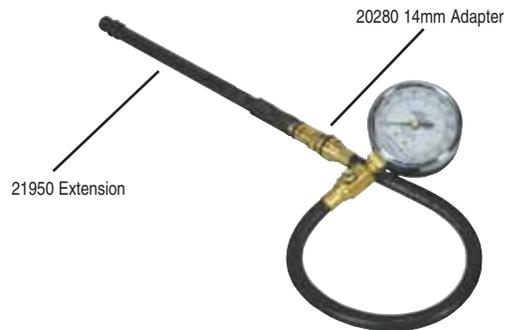
Fits the torque converter drain plug on 2003 and later Subaru Legacy, Forester, Impreza and brake rotor retaining bolts on GM C4500 trucks. 1/2" drive. Shipping wt. 4 oz.



## 20670 GASOLINE ENGINE COMPRESSION TESTER FOR RECESSED PLUGS

Works on Heads With Deep Hole Plugs, Hemi Engines and Conventional Engines.

Accurately checks compression on gasoline engines. Includes a 9" removable steel extension to access 14mm spark plug holes on Hemi and deep hole style engines. Use the shorter 14mm & 18mm adapters for conventional engines. The gauge registers 0-300 PSI and 1-2100 KPA. Shipping wt. 1 lb. 5 oz.



20100 Valve Core

20280 14mm Adapter

21950 Extension

## 39900 MASTER DISCONNECT SET

Contains 8 Popular Disconnect Tools for A/C & Fuel Lines.

A complete set of disconnect tools that can be stored in a handy blow-molded case. All disconnect tools are also available individually. Shipping wt. 1 lb. 11 oz.



37000 AC/Fuel Line Disconnect Set

39400 Angled AC/Fuel Line Disconnect Set

35000 Flex Fuel Disconnect for GM

37500 Fuel Line Quick Disconnect for GM

39930 5/16" & 3/8" Scissor Disconnect

39940 Coupler Disconnect

39960 Ford Transmission Line Disconnect

Patents 5,455,995  
6,195,862 & 7,350,282

## 39400 ANGLED DISCONNECT TOOL SET

Disconnects Air Conditioning and Quick Connect Fuel Lines.

Disconnects spring lock couplings on Ford and Chrysler AC lines. Works on fuel lines and other quick disconnect couplings on domestic and import vehicles. The handles are angled to access tight spots. Made of durable plastic that resists fuels and solvents. Six sizes: 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8". All disconnects available individually skin-packed. Shipping wt. 4 oz.

39410 5/16" Angled Disconnect	39440 5/8" Angled Disconnect
39420 3/8" Angled Disconnect	39450 3/4" Angled Disconnect
39430 1/2" Angled Disconnect	39460 7/8" Angled Disconnect

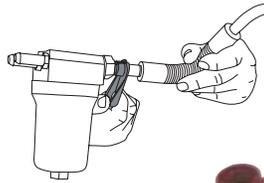


Patent 6,195,862

## 39960 TRANSMISSION OIL COOLER LINE DISCONNECT FOR FORD

Use 3/8" size for 2003 and later Ford V8 Explorer, 2004 and later Ford F150 and Cadillac CS. Use 1/2" size for Ford Super Duty Trucks, F250, F350 and F450. Tip is specially stepped to fit connector. Simply push the line toward the connector, then engage tool and pull line from connector. Set comes skin packed with a bead chain. Shipping wt. 1 oz.

39910 1/2" Disconnect	39920 3/8" Disconnect
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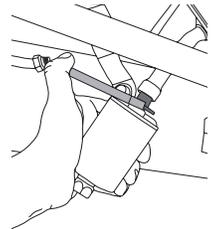


Patent 7,350,282

## 35000 FUEL FILTER DISCONNECT FOR GM

Disconnects the fuel line from the fuel filter on 5.3L Suburban, Tahoe, Yukon, Avalanche and select Silverados and Sierras. Insert the two semicircular disconnects into the coupling. Connect the handle and depress to separate the fuel line from the filter. Shipping wt. 2 oz.

34810 Flex Fuel Handle	34830 Flex Fuel Adapters (2)
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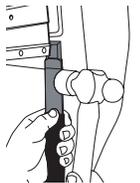
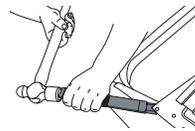


Patent 7,404,245

## 51900 SPOT WELD CHISEL

Separates Spot Welded Panels.

Use to separate panels after the spot weld has been drilled out. Drive the blade with a hammer from the end or the side through the panel seam. Panels are separated without damage. The blade is sharpened on three sides, and offset for clearance. NOTE: The sharpened edges will wear with use. Resharpen on a grinding wheel. Shipping wt. 8 oz.

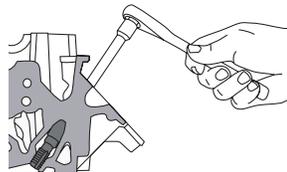


Patent 7,257,896

## 20020 LIMITED ACCESS SPARK PLUG CHASER

Fits Spark Plug Holes with Limited Access.

The narrow profile and long length allows access to spark plug holes in confined spaces. Use with a 3/8" ratchet or extension. Size: M14x1.25 IMPORTANT: Use anti-seize. Shipping wt. 3 oz.



## 42800 & 42850 SHORT HEAD HEX KEYS, FRACTIONAL & METRIC

Short Heads for Tight Applications.

The 42800 fractional set includes 12 hex keys, .05" through 5/16". The 42850 metric set includes 9 hex keys, 1.5mm through 10mm. Shipping wt. 6 oz.

Wrench Sizes	
.05"	1/4"
1/16"	5/16"
5/64"	
3/32"	
7/64"	
1/8"	
9/64"	
5/32"	
3/16"	
7/32"	



Wrench Sizes	
1.5mm	
2mm	
2.5mm	
3mm	
4mm	
5mm	
6mm	
8mm	
10mm	

## 12230 OXYGEN SENSOR THREAD CHASER

Cleans Threads in Oxygen Sensor Holes.

Use with 3/4" hex socket or 3/8" square drive. Size: M18x1.5  
Also works on M18x1.5 spark plug threads. IMPORTANT: Use anti-seize. Shipping wt. 3 oz.



## 37940 12PC. SUPER TORX® BIT SET

Two-Piece Design for Greater Strength.

T-10 thru T-60 in one handy set. Six 1/4" drive; five 3/8" drive; one 1/2" drive. With convenient vinyl holder. All bits are available individually. Shipping wt. 1 lb. 5 oz.

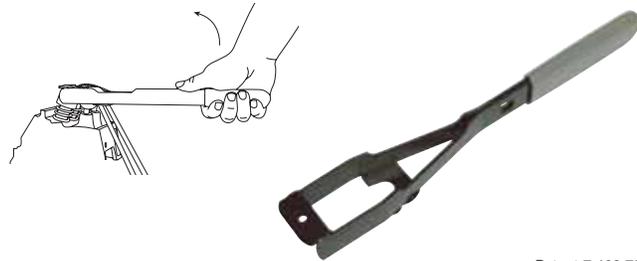


Part #	Torx Drive	
	Size	Size
37610	T-10	1/4"
37620	T-15	1/4"
37630	T-20	1/4"
37640	T-25	1/4"
37650	T-27	1/4"
37660	T-30	1/4"
37670	T-40	3/8"
37680	T-45	3/8"
37690	T-47	3/8"
37700	T-50	3/8"
37710	T-55	3/8"
37720	T-60	1/2"

## 48500 PUSH ROD REMOVER

Works on GM V6 2.8L, 3.1L and 3.4L Engines.

Quickly removes push rods so you can replace the intake gasket. No need to loosen and retighten the rocker arm. The tool pivots the rocker arm to compress the valve spring and free the push rod for removal. Revised design works in tight quarters on Pontiac Montana and other applications. Shipping wt. 14 oz.

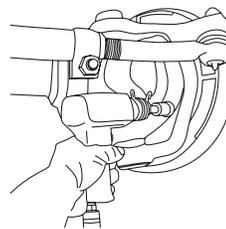


Patent 7,409,755

## 39300 FRONT HUB & KNUCKLE SEPARATOR

Separates the Frozen Hub Assembly from the Steering Knuckle on Dodge and GM pickups, Cadillac, Jeep and Other Applications.

Tool drives against loosened retaining bolts to separate assembly. Prevents damage to the knuckle and complete hub assembly. Tool drives on the bolt flange, so the head of the retaining bolt is not destroyed. Made of strong steel for durability. Shipping wt. 6 oz.



REINTRODUCED



Patent 6,481,084

## 39000 "NO SLIP" PULLEY PULLER

Removes and Installs Pressed on Power Steering, Alternator and Air Pump Pulleys WITHOUT SLIPPING.

The unique puller body completely houses the pulley hub to prevent slipping on even the tightest pulleys. Fits most domestic models including GM 3.1 and Quad 4 engines. Works on traditional V shaped pulleys and serpentine belt system pulleys. Also works faster than other conventional pulley pullers. Shipping wt. 2 lb. 1 oz.



Cutaway View of Pulley Trapped Inside Jaw Assembly



Part #	Description
39030	Handle
39070	Pusher Shaft
39090	Jaw Assembly
38910	Short 3/8-16 Installer Adapter
38920	Short 8mm Installer Adapter
38930	Med. 3/8-16 Installer Adapter
38940	Short Pin
38950	Long Pin
38960	Long 3/8-16 Installer Adapter
38990	Puller Screw

Patent 7,007,359

## 35150 WINDOW BELT MOLDING REMOVER

Quickly Removes All Window Belt Moldings.

Slide the powder-coated tool downward between the window exterior and the door. The channel side of the tool should face the door. When the tool channel is below the belt molding, push or pull the tool upward. The tool quickly removes the belt molding without damage to the window or the molding. Fits most domestic and import vehicles. Shipping wt. 5 oz.



Patent 7,147,209

## 20380 M16x1.5 ADAPTER FOR 20250

For Use with 20250 Compression Tester.

Can be used with the 20250 Compression Tester to adapt the tool to work on 2005 Ford Triton engines with M16x1.5-6G threads. Shipping wt. 1 oz.



## 57100 ADJUSTABLE HANDLE SERPENTINE BELT TOOL

Dual handles connect to the extension to remove and install most serpentine belts. Use one handle to release the spring tension. Engage the second handle where extra travel is needed to compress the spring. Made for work in close quarters. The low profile design allows clearance in tight spots. Seven sockets connect to the drive bar to fit serpentine pulley bolts. Shipping wt. 3 lb. 9 oz.



## 58850 OIL PAN PLUG RETHREADING KIT

Removes Damaged Thread and Taps a New Oversize Thread.

This set includes a piloted drill, spring-loaded tapping tool and 5 magnetic drain plugs. The unique tapping tool ensures the new thread will be perpendicular to the gasket surface to prevent leakage. Works on soft steel and aluminum oil pans with 1/2", 12mm & 14mm threads. Can be used on the vehicle when room permits. Shipping wt. 2 lb. 1 oz.



Drilling Drain Hole



Tapping Drain Hole

58650 Plugs & Gaskets (Set of 5)

58880 Piloted Drill Assembly

58900 Tap

Patent 7,014,397

## 21260 ARM GLOVE

Total Hand and Arm Burn Protection.

The heat resistant Kevlar® material protects hands and arms from hot surfaces. This enables work on hot engines and exhaust systems without waiting. Works on both right and left hands. The glove portion is coated with a vinyl tread for greater gripping power. Extends to 24". Washable. Shipping wt. 3 oz.



Kevlar® is a trademark of DuPont.

## 56150 COMBINATION FLARING TOOL

Works for Single and Double Flares, Also ISO (Bubble) Flares.

This set includes all the adapters and tools necessary for single and double flaring (standard and metric) plus the ISO (bubble) flare. Works on aluminum, copper and soft steel tubing. Not recommended for stainless steel. The set is packed in a plastic molded storage case with complete instructions. Shipping wt. 3 lb. 8 oz.



Part #	Description
31180	3/8" Adapter
31370	3/16" Adapter
31380	1/4" Adapter
31390	5/16" Adapter
31410	1/2" Adapter
56220	6mm Adapter
56240	10mm Adapter
56270	4.75mm ISO Adapter
56300	6mm ISO Adapter
56330	8mm ISO Adapter
56360	10mm ISO Adapter

Patent 6,199,421

## 58600 BASIC FUEL INJECTION TEST SET

This set checks fuel pressure on most domestic (except GM TBI) and Japanese Fuel Injection and Throttle Body Injection Systems. Tests the following: Bosch AFC, MPC, Digijet/Digifant - except C.I.S.; Chrysler; Ford; GM - except T.B.I.; Japanese Fuel Injection Systems; others using Bendix-type fuel injection or Schrader-type valve including the small Schrader valve found on Ford. Shipping wt. 4 lb.



## 43900 PNEUMATIC OXYGEN SENSOR REMOVER

**Pneumatic Action Removes Oxygen Sensors.**

Use this set with an air hammer to remove stubborn, baked-on oxygen sensors. The pneumatic action works where conventional sockets won't. The compact design allows easy access under the hood. To install sensors, use the socket only with a 3/8" drive ratchet. Shipping wt. 1 lb. 4 oz.

43940 Socket 43960 Driver



Patent 7,024,973

## 56650 ADJUSTABLE SEAL PULLER

**Head Adjusts to 5 Positions.**

Two hook sizes easily remove most oil and grease seals. Where clearance is a problem, remove the pin to reposition the head. The adjustable head works great on front wheel drive transaxles. Also works on front crankshaft seals without removing the radiator. Shipping wt. 15 oz.

56680 Pull Pin



Patent 7,039,993

## 24550 COMPUTER SAFE CIRCUIT TESTER

**Also Indicates Polarity.**

Safe for automotive computers. Won't damage sensitive electronic components. Draws less than 21 mA. at 12 volts DC. Operating range 3-28 volts. The red light indicates positive polarity, green indicates negative polarity. Shipping wt. 6 oz.

24560 Replacement Bulb



## 52650 HARMONIC BALANCER INSTALLER

**Installs Harmonic Balancers or Drive Pulleys that are Pressed on the Crankshaft.**

This set includes a driving screw, thrust bearing and threaded adapters necessary to work on a wide range of domestic and some import harmonic balancers. Shipping wt. 3 lbs. 6 oz.

52220 Bearing	52230 Driver
52270 7/16 - 20 Adapter	52290 M12 x 1.5 Adapter
52300 1/2" x 20 Adapter	52320 M14 x 1.5 Adapter
52330 9/16 - 18 Adapter	52340 5/8 - 18 Adapter
52350 M16 x 2.0 Adapter	52360 3/4 - 16 Adapter



## 28890 TRUCK ANCHOR PIN BUSHING DRIVER

**Also Removes Truck Leaf Spring Bushings.**

Pneumatic bushing driver set removes and installs truck and trailer anchor pin bushings and stuck anchor pins. Drive the bushing out with the small cone. Use the larger cone to install bushing to the proper depth. Ship. wt. 18 oz.

28900 Driver 28910 Remover Cone 28920 Installer Cone



## 95002 FOLD UP CREEPER

**The Padded Vinyl Creeper Adds Comfort and Protection on the Job.**

Works great on off road situations and under a vehicle where no jacks or lifts are used. Folds up and hangs for convenient storage. Shipping wt. 2 lbs. 15 oz.



Dimensions:  
Unfolded 18" x 48",  
Folded 18" x 24".