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; 320 grit 10400 stones are 1". Flexible driver provides good stability.

10000 Three-Stone Brake Cylinder Hone. Skin-packed. Shipping wt. 3 oz.
10050 Set Replacement Stones for 10000. Skin-packed. Shipping wt. 1 oz.
10400 Disc Brake Hone. Skin-packed. Shipping wt. 3 oz.
10490 Set Replacement Stones for 10400. Skin-packed. Shipping wt. 1 oz.
10500 Two-Stone Brake Cylinder Hone. Skin-packed. Shipping wt. 3 oz.
10550 Set Replacement Stones for 10500. Skin-packed. Shipping wt. 1 oz.

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.

46750 Brake Spring Tool. Skin-packed. Shipping wt. 6 oz.

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.

45100 Brake Spring Tool. Skin-packed. Shipping wt. 4 oz.
45140 Tip

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.

44800 Heavy-Duty Brake Spring Tool. Skin-packed. Shipping wt. 8 oz.
44810 Tip
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.

**11260 Brake Spring Pliers.** Skin-packed. Shipping wt. 16 oz.

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.

**47400 Brake Spring Washer Tool.** Skin-packed. Shipping wt. 4 oz.

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.

**48400 Import Car Brake Clip Tool.** Skin-packed. Shipping wt. 5 oz.

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.

**50600 Single-Spring Brake Tool.** Shipping wt. 1 lb. 8 oz.

**50150 Bracket - Updated Requires 2**

<table>
<thead>
<tr>
<th>Applications</th>
<th>Larger Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smaller Spring</td>
<td>2005 to current Chevrolet Silverado</td>
</tr>
<tr>
<td>1991 to current GM H Body</td>
<td>2004 to current Chevrolet Colorado</td>
</tr>
<tr>
<td>Bonneville, LaSabre</td>
<td>Includes 2007 Models</td>
</tr>
<tr>
<td>Delta, 88</td>
<td></td>
</tr>
<tr>
<td>1995 to current Chevrolet Lumina &amp; Monte Carlo</td>
<td></td>
</tr>
<tr>
<td>1992 to current GM C &amp; H Body</td>
<td></td>
</tr>
<tr>
<td>Buick Electra</td>
<td></td>
</tr>
<tr>
<td>Olds 88</td>
<td></td>
</tr>
<tr>
<td>Cadillac Fleetwood</td>
<td></td>
</tr>
<tr>
<td>Cadillac DeVille</td>
<td></td>
</tr>
<tr>
<td>Chevrolet Lumina APV</td>
<td></td>
</tr>
<tr>
<td>Pontiac Trans Sport</td>
<td></td>
</tr>
<tr>
<td>Olds Silhouette</td>
<td></td>
</tr>
</tbody>
</table>
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 vinyl holder keeps bits together in one place. All bits available individually.

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. Also available individually.

33900 33960 33920 7mm, 9mm, 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. 9mm hex fits Ford Expedition '06-'08, Ford Escape '06, Mercedes ML320 CDI and other vehicles. 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. Also available individually.

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.
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.
50700 Brake Adjustment Tool. Skin-packed. Shipping wt. 2 oz.

51300 Parking Brake Adjusting Spoon for Ford Trucks
Double-Ended Tool Speeds Star Wheel Adjusting on Ford F-150. Also Works on F-250/F-350 Super Duty Trucks with Dana 80 Rear Axles.
Tool adjusts star wheel through access slot in backing plate. Squared tip works on F-250 and F-350. Angled tip with cutout for extra clearance works on F-150 pickups. Use on drum in hat parking brake mechanism that is mounted inside the disc brake assembly.
51300 Parking Brake Adjusting Spoon for Ford Trucks. Skin-packed.
Shipping wt. 9 oz.

51400 Brake Adjustment Tool for Ford
Works from the Top to Speed Star Wheel Adjusting on 2001-2006 Ford Taurus, Windstar and Mercury Sable and Other Drum Brakes with Top Mounted Adjuster.
Insert tool through slot in backing plate. Angled ends for easy access.
51400 Brake Adjustment Tool for Ford. Skin-packed. Shipping wt. 3 oz.

40750 Parking Brake Cable Remover
Allows Technician to Remove Parking Brake Cable by Compressing the Spring.
Tool can be used when cable is still attached to parking brake assembly. Ends of tool are angled to allow easier access. Slots on each end allow tool to slip over cable instead of feeding the cable through the end of the tool. Especially useful on Ford F-Series, Expeditions, Excursions, etc.
40750 Parking Brake Cable Remover. Skin-packed. Shipping wt. 5 oz.

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.
10900 5/16” - 3/8” Brake Bleeder Wrench. Skin-packed. Shipping wt. 4 oz.
10950 1/4” - 3/8” Brake Bleeder Wrench. Skin-packed. Shipping wt. 4 oz.
**24300 Speedy Brake Pad Spreader**

Compresses Brake Pistons in Seconds.

Compress disc brake pistons easily. Squeeze the handle and the fast acting plunger to compress disc brake pistons in seconds. 25750 Dual Piston Brake Pad Spreader compresses both pistons simultaneously. 29100 Quick Quad Pad Spreader simultaneously compresses all pistons on four piston brake calipers. Can be used while four piston caliper is still attached to the vehicle hub. Makes brake pad replacement a quick and easy job.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>24300</td>
<td>Speedy Brake Pad Spreader</td>
<td>1 lb. 11 oz.</td>
</tr>
<tr>
<td>25750</td>
<td>Dual Piston Brake Pad Spreader</td>
<td>2 lbs. 3 oz.</td>
</tr>
<tr>
<td>29100</td>
<td>Quick Quad Pad Spreader</td>
<td>2 lbs. 13 oz.</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>24400</td>
<td>Disc Brake Pad Spreader</td>
<td>11 oz.</td>
</tr>
</tbody>
</table>

**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. Fits Mazda 3 and Mini Cooper applications.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>25080</td>
<td>1-1/2” Adapter</td>
<td></td>
</tr>
<tr>
<td>25110</td>
<td>1-5/8” Adapter</td>
<td></td>
</tr>
<tr>
<td>25130</td>
<td>1-7/8” Adapter</td>
<td></td>
</tr>
<tr>
<td>25150</td>
<td>2-1/8” Adapter</td>
<td></td>
</tr>
<tr>
<td>25170</td>
<td>2-1/2” Adapter</td>
<td></td>
</tr>
<tr>
<td>25190</td>
<td>3/8” Square Head Repair Kit</td>
<td></td>
</tr>
<tr>
<td>65420</td>
<td>Seal Repair Kit</td>
<td></td>
</tr>
<tr>
<td>65460</td>
<td>Pneumatic Tool</td>
<td></td>
</tr>
</tbody>
</table>

**65450 Pneumatic Rear Brake Caliper Tool Kit.**

Molded Case. Shipping wt. 6 lbs. 3 oz.
28600 Disc Brake Piston Tool
Rotates Piston Back Into the Caliper When Replacing Pads.
A sixth 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.

25000 Universal Disc Brake Caliper Tool
For Rotating the Brake Piston Back Into the Caliper to Provide Clearance for New Pads.
New Second Side on Adapter 2B 1-5/8" Has Narrow Pins to Fit Mazda 3 Applications.
Includes 5 adapters (available individually) 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. A real time saver that makes this tough job easy. Helps prevent damage to the piston and boot. **NOTE:** Some pistons turn clockwise while others turn counter-clockwise; consult your shop manual for the car you are servicing. For the counter-clockwise rotation the 1" Hex Nut must be turned at a faster rate of rotation in order to keep the adapter engaged with the piston.

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.

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.

**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.

13410 Brake Caliper Brush. Skin-packed. Shipping wt. 3 oz.

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**14000 Parts Cleaning Brush**
Removes dirt and grease from motors, machinery and metal parts. Polypropylene bristles hold up under repeated use in cleaning solvents.

14000 Parts Cleaning Brush. Skin-packed. Shipping wt. 5 oz.

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**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.

14020 2 1/2" Wire Cup Brush. Skin-packed. Shipping wt. 5 oz.

---

**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.

14040 1" Knot Wire End Brush. Skin-packed. Shipping wt. 4 oz.
14060 1" Crimped Wire End Brush. Skin-packed. Shipping wt. 4 oz.

---

**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".

14160 Scratch Brush. Skin-packed. Shipping wt. 7 oz.
14180 Shoe Handle Wire Scratch Brush. Skin-packed. Shipping wt. 7 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 sharpened if needed.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Package</th>
<th>Shipping wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41400</td>
<td>Stepped Pickle Fork Kit</td>
<td>Clam Shell</td>
<td>3 lbs. 13 oz.</td>
</tr>
<tr>
<td>41410</td>
<td>1-1/8&quot; Stepped Fork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41420</td>
<td>11/16&quot; Stepped Fork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41430</td>
<td>15/16&quot; Stepped Fork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41510</td>
<td>Handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41520</td>
<td>Pneumatic Driver</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Package</th>
<th>Shipping wt.</th>
</tr>
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<tbody>
<tr>
<td>41500</td>
<td>Pickle Fork Kit</td>
<td>Clam Shell</td>
<td>3 lbs. 15 oz.</td>
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<tr>
<td>41510</td>
<td>Handle</td>
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<td></td>
</tr>
<tr>
<td>41520</td>
<td>Pneumatic Driver</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41530</td>
<td>1-1/8&quot; Fork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41540</td>
<td>15/16&quot; Fork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41550</td>
<td>11/16&quot; Fork</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

18520 Stepped Tie Rod Separator
18530 Stepped Ball Joint Separator

Step Design Helps Keep Tool from Bouncing Back.

18520 is used to replace worn out tie rods and to separate shock absorber links. The tine opening is 11/16". The 18530 is used to replace worn out ball joints and to remove CV drive shafts on FWD vehicles. The tine opening is 15/16". These heavy-duty tools are drop forged and heat-treated for long use. Steps can be sharpened if needed.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Package</th>
<th>Shipping wt.</th>
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</thead>
<tbody>
<tr>
<td>18520</td>
<td>Stepped Tie Rod Separator</td>
<td>Skin-packed</td>
<td>1 lb. 11 oz.</td>
</tr>
<tr>
<td>18530</td>
<td>Stepped Ball Joint Separator</td>
<td>Skin-packed</td>
<td>1 lb. 12 oz.</td>
</tr>
</tbody>
</table>

46700 Tie Rod Puller for Ford

For Use on 2002 and Newer Ford SUVs with Independent Rear Suspension.

Removes tie rod by inserting the angled tips between the tie rod and boot. Use with a slide hammer to pull rear suspension link or tie rod end from the rear knuckle assembly. Helps eliminated damage to tie rods by pulling straight out rather than prying or hitting the tie rod with a hammer.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Package</th>
<th>Shipping wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>46700</td>
<td>Tie Rod Puller for Ford</td>
<td>Clam Shell</td>
<td>11 oz.</td>
</tr>
</tbody>
</table>
**SUSPENSION**

**46800 MASTER INNER TIE ROD KIT**
Includes Nine Crows Feet in a Handy Molded Storage Case.
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 nine 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>45750</td>
<td>Inner Tie Rod Tool, Molded Case. Shipping wt. 5 lbs.</td>
</tr>
<tr>
<td>45770</td>
<td>Socket. Mini-pouched.</td>
</tr>
<tr>
<td>45670</td>
<td>33.6mm Crowfoot. Mini-pouched.</td>
</tr>
<tr>
<td>45820</td>
<td>1-7/16&quot; Crowfoot. Mini-pouched.</td>
</tr>
<tr>
<td>45840</td>
<td>1-1/4&quot; Crowfoot. Mini-pouched.</td>
</tr>
<tr>
<td>46270</td>
<td>29mm Crowfoot. Mini-pouched.</td>
</tr>
</tbody>
</table>

**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. 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>45750</td>
<td>Inner Tie Rod Tool, Clam Shell Package. Shipping wt. 3 lbs. 6 oz.</td>
</tr>
<tr>
<td>45770</td>
<td>Socket. Mini-pouched.</td>
</tr>
<tr>
<td>45670</td>
<td>33.6mm Crowfoot. Mini-pouched.</td>
</tr>
<tr>
<td>45820</td>
<td>1-7/16&quot; Crowfoot. Mini-pouched.</td>
</tr>
<tr>
<td>45840</td>
<td>1-1/4&quot; Crowfoot. Mini-pouched.</td>
</tr>
</tbody>
</table>

**46600 UNIVERSAL INNER TIE ROD WRENCH**
Removes Inner Tie Rods Equipped with a Completely Round End Socket or with Flats.
Designed to remove and install all inner tie rod sockets up to 1-31/64". 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. 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>46600</td>
<td>Universal Inner Tie Rod Wrench. Skin-packed. Shipping wt. 2 lbs. 7 oz.</td>
</tr>
<tr>
<td>45570</td>
<td>1/4&quot; Short Head Hex Key</td>
</tr>
<tr>
<td>46620</td>
<td>1/2-20 Socket Head Set Screw</td>
</tr>
</tbody>
</table>

**54640 PNEUMATIC TIE ROD rattler**
Loosens Bolts and Clamps on Tie Rods for Removal or Adjustment.
Use with an air hammer to vibrate seized clamps and bolts on many sizes of tie rods. Works especially well on Ford F-Series trucks and SUVs. Standard .401" shank.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>54640</td>
<td>Pneumatic Tie Rod Rattler. Skin-packed. Shipping wt. 1 lb. 3 oz.</td>
</tr>
</tbody>
</table>
**38210 HUB REMOVER KIT FOR DODGE**

Separates the Frozen Hub Assembly from the Steering Knuckle on Dodge Vehicles.

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. Kit contains 39300 for older, smaller applications and 39250 for 2003 and newer 4-wheel drive 3/4 ton and 1 ton Dodge pickups. Available individually.

38210 Hub Remover Kit for Dodge. Skin-packed. Shipping wt. 13 oz.

39250 Hub Remover 03-09 Dodge. Mini-pouched.

39300 Front Hub & Knuckle Separator. Skin-packed.

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**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.

41900 Pitman Arm Puller. Skin Packed. Shipping wt. 2 lbs. 1 oz.

41910 Puller Screw

---

**41970 HEAVY-DUTY PITMAN ARM PULLER**


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.

41970 Pitman Arm Puller. Skin Packed. Shipping wt. 3 lbs.

41910 Puller Screw

---

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

Tough Tool Makes easy Work of Three 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.


Shipping wt. 16 lbs. 1 oz.

43670 Screw Assembly

43680 Frame Adapter

43690 Screw Adapter

43700 3" Tube

43710 2-1/2" Tube

43720 2" Tube

---
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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>62300</td>
<td>Strut Tool</td>
<td>5 lbs. 13 oz.</td>
</tr>
<tr>
<td>62350 Bolt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62360 Nut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62370 Washer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20400</td>
<td>Universal Shock Absorber Tool</td>
<td>9 oz.</td>
</tr>
</tbody>
</table>

64700 LOWER CONTROL ARM TOOL
Use with a Pry Bar to Separate the Lower Control Arm from the Ball Joint Stud to Service CV Joints, Front Hub Assemblies and More.
For use on many FWD vehicles. Slide a pry bar through the rectangular hole and place the hook end of the tool over the edge of the lower control arm. Press or pull down on the pry bar to pull the lower control arm free and out of the work area.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>64700</td>
<td>Lower Control Arm Tool</td>
<td>1 lb. 3 oz.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>17850</td>
<td>Axle Seal Installer for Ford</td>
<td>3 lbs. 9 oz.</td>
</tr>
</tbody>
</table>

38060 AXLE SHAFT SEAL INSTALLER
Drives The Axle Seal Into Place on the Vacuum Operated Front Axles on '98 to '04 4WD 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>38060</td>
<td>Axle Shaft Seal Installer</td>
<td>4 lbs. 6 oz.</td>
</tr>
<tr>
<td>38070 Cap</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 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.

<table>
<thead>
<tr>
<th>Driver No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>12610</td>
<td>1.565</td>
</tr>
<tr>
<td>12620</td>
<td>1.750</td>
</tr>
<tr>
<td>12630</td>
<td>1.965</td>
</tr>
<tr>
<td>12640</td>
<td>2.325</td>
</tr>
<tr>
<td>12650</td>
<td>2.555</td>
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<tr>
<td>12690</td>
<td>2.830</td>
</tr>
<tr>
<td>12710</td>
<td>2.470</td>
</tr>
<tr>
<td>12655</td>
<td>2.555</td>
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<tr>
<td>12700</td>
<td>2.995</td>
</tr>
<tr>
<td>12690</td>
<td>2.830</td>
</tr>
<tr>
<td>12700</td>
<td>2.995</td>
</tr>
<tr>
<td>12970</td>
<td>3.180</td>
</tr>
</tbody>
</table>

### Measurements are to outside of drivers.

### 12600 12980 Bearing Race and Seal Driver Sets

Makes it Easier to Insert Bearing Race. Insert bearing race quickly, straight in on FIRST TRY! Helps reduce damage to both race and axle housing. Turn driver over to drive seals.

<table>
<thead>
<tr>
<th>Driver No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>12610</td>
<td>1.565</td>
</tr>
<tr>
<td>12620</td>
<td>1.750</td>
</tr>
<tr>
<td>12630</td>
<td>1.965</td>
</tr>
<tr>
<td>12640</td>
<td>2.325</td>
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<td>12710</td>
<td>2.470</td>
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<td>12650</td>
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<td>12690</td>
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<td>12655</td>
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<td>12700</td>
<td>2.995</td>
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<td>12690</td>
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<tr>
<td>12700</td>
<td>2.995</td>
</tr>
<tr>
<td>12970</td>
<td>3.180</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Driver No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>59410</td>
<td>2-1/16&quot;</td>
</tr>
<tr>
<td>59420</td>
<td>2-27/32&quot;</td>
</tr>
<tr>
<td>59430</td>
<td>2-7/8&quot;</td>
</tr>
<tr>
<td>59440</td>
<td>3&quot;</td>
</tr>
<tr>
<td>59450</td>
<td>3-1/4&quot;</td>
</tr>
<tr>
<td>59460</td>
<td>3-1/2&quot;</td>
</tr>
<tr>
<td>59470</td>
<td>3-3/4&quot;</td>
</tr>
<tr>
<td>59480</td>
<td>4-1/8&quot;</td>
</tr>
</tbody>
</table>

### 24800 Seal Driver Kit

Quickly Drives Seals Without Damage. Sixteen adapters for seals up to 3-3/8" diameter. Includes special adapters for "shielded" seals.

<table>
<thead>
<tr>
<th>Driver No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>24800</td>
<td>Clam Shell Package. Shipping wt. 1 lb. 11 oz.</td>
</tr>
</tbody>
</table>

### 56950 Pinion Shaft Seal Driver

Double-Sided Adapter to Fit Multiple Seal Sizes. Hollow adapter allows driver to slide over shaft to drive seal. Neodymium magnets on both driver faces hold seal in place until you are ready to drive into place. Works on many applications, especially Ford pickup and SUV pinion seals. Can also be used on standard seals. Tool is made from aluminum to make it lightweight and allow more driving power to transfer. Metal cap is replaceable.

<table>
<thead>
<tr>
<th>Driver No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>56950</td>
<td>Boxed. Shipping wt. 4 lb. 5 oz.</td>
</tr>
</tbody>
</table>

### 38070 Cap
**Bearing**

34550 **Handy Packer® Bearing Packer**

Quickly Flushes Out Old Grease and Repacks Bearings with Less Mess.

The Handy Packer works on bearings up to 3-1/2" O.D. The grease stays in the tool cavity, not on your hands. To pack a bearing, place the bearing on the piston. Press down on the cap until the old grease is forced out and the new grease shows on top of the bearing.

34550 Handy Packer Bearing Packer. Clam Shell. Shipping wt. 1 lb. 4 oz.

65250 **Universal Bearing Packer**

Fast, Efficient, Thorough.

Simply place the bearing between the plastic cones, tighten, and apply grease through the fitting on the end of the threaded shaft. Forces out old grease and evenly injects fresh grease. Cone diameter is 4-1/2".

65250 Universal Bearing Packer. Skin-packed. Shipping wt. 7 oz.

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.

21600 Right Angle Grease Gun Adapter. Skin-packed. Shipping wt. 5 oz.

21620 Piston

56750 **Seal Puller**

For Oil and Grease Seals.

Simply insert the tip of the tool behind the oil or grease seal, press and pull. Leverage works for you. Two size tips reach in and fit nearly all seal applications.

56750 Seal Puller. Skin-packed. Shipping wt. 15 oz.

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.

56650 Adjustable Seal Puller. Skin-packed. Shipping wt. 15 oz.

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.

56920 Limited Access Seal Puller. Skin-packed. Shipping wt. 3 oz.
**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.

22200 Spindle Puller. Boxed. Shipping wt. 3 lbs. 3 oz.

**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.

- 27250 Wheel Bearing Lock-Nut Tool. Hang Tag. Shipping wt. 1 lb. 8 oz.
- 27400 Combination 4-WD Wheel Bearing Lock-Nut Tool. Hang Tag. Shipping wt. 1 lb. 7 oz.

**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.

29900 4 Wheel Drive Bearing Lock-Nut Tool. Clam Shell. Shipping wt. 1 lb. 6 oz.

**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.

28000 Ratcheting Lock Nut Tool. Clam Shell Package. Shipping wt. 2 lbs. 10 oz.
### 39500 39550 39700 39750

**FWD AXLE NUT SOCKETS 6 PT.**

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.

- **39500 FWD Axle Nut Socket (30mm),** Hang Tag. Shipping wt. 1 lb. 3 oz.
- **39700 FWD Axle Nut Socket (32mm),** Clam Shell Package. Shipping wt. 1 lb. 6 oz.
- **39750 FWD Axle Nut Socket (34mm),** Hang Tag. Shipping wt. 1 lb. 10 oz.
- **39550 FWD Axle Nut Socket (36mm),** Hang Tag. Shipping wt. 1 lb. 13 oz.

---

### 39650 399MM 12 PT. AXLE NUT SOCKET FOR TOYOTA

Removes and Installs Axle Nuts on 4-Wheel Drive Axle Hubs.

Made of durable, impact-grade heat-treated alloy steel. Extra deep design fits over various axle lengths. Works where standard sockets won’t. Use with 1/2” drive.

- **39150 39mm 12pt Axle Nut Socket for Toyota.** Hang Tag. Shipping wt. 1 lb. 4 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.

- **39150 30mm 12pt Axle Nut Socket.** Hang Tag. Shipping wt. 1 lb. 4 oz.

---

### 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.

- **30800 CV Boot Clamp Pliers (Ear-Type).** Skin-packed. Shipping wt. 1 lb. 3 oz.

---

### 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.

- **30500 CV Boot Clamp Pliers (Earless-Type).** Skin-packed. Shipping wt. 13 oz.

---

### 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.

- **30950 CV Joint Banding Tool.** Skin-packed. Shipping wt. 7 oz.

Band-It and Band-It Jr. are trademarks of Band-It-IDEX, Inc.
### 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).

- **32500 Tailpipe Expander.** Clam Shell Package. Shipping wt. 2 lbs. 13 oz.
- **32750 Tailpipe Expander.** Boxed. Shipping wt. 4 lbs. 2 oz.

### 17350 Pipe Stretcher Kit/34400 Pipe Stretcher

**Stretches All Pipe Including Stainless Steel.**
Use with an impact wrench to quickly stretch pipes. Collet sets expand pipes from 1-5/8” to 4-1/4”. The tool can be used on the vehicle. The pipe stretcher is a convenient, inexpensive alternative to hydraulic pipe expanders. The kit comes in a molded case for storage.

- **17350 Pipe Stretcher Kit.** Molded Case. Shipping wt. 9 lb. 14 oz.
- **17510 Extender #1**
- **17530 Extender #3**
- **17550 Extender #5 (must be used with 17530)**
- **17720 O Ring #2**
- **17740 O Ring #4**
- **34400 Pipe Stretcher.** Clam Shell Package. Shipping wt. 4 lb. 10 oz
- **34490 Large O Ring**
- **34500 Small O Ring**

### 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.

- **38350 Exhaust Removal Pliers.** Skin-packed. Shipping weight 1 lb. 3 oz.

### 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.

- **31500 Exhaust / Strut Cutoff Tool.** Skin-packed. Shipping wt. 1 lb. 7 oz.
- **31530 Set of Four Replacement Cutter Wheels for 31500**

### 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).

- **32000 Pipe End Shaper.** Boxed. Shipping wt. 4 lbs. 15 oz.
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!

21700 Wrinkle Band Ring Compressor. Skin-packed. Shipping wt. 6 oz.

---

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.

- **18500 Small Engine Ring Compressor**. Range 1-1/2” to 3” (38.1-76.2mm)
  - Boxed. Shipping wt. 5 oz. NSN 5120-00-322-6223

- **19500 Ring Compressor**. Range 2-1/8” to 5”. (Height 3-1/2”) Skin-packed.
  - Shipping wt. 12 oz. NSN 5120-00-250-6055

- **20500 Ring Compressor**. Range 3-1/2” to 7”. (Height 3-1/2”) Skin-packed.
  - Shipping wt. 14 oz. NSN 5120-00-223-8848

- **21000 Ring Compressor**. Range 3-1/2” to 7”. (Height 7”) Boxed.
  - Shipping wt. 1 lb. 11 oz. NSN 5120-00-116-7676

- **21500 Ring Compressor**. Range 7” to 10”. (Height 7”) Boxed. Ship. wt. 2 lbs. 4 oz.

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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.

19000 Ring Compressor. Range 2-1/8” to 5”. (54-127mm) Boxed. Shipping wt. 6 oz.

---

33500 **PISTON RING INSTALLED**

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).

33500 Piston Ring Installer. Skin-packed. Shipping wt. 4 oz.

- NSN 5120-00-857-3190

---

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.

13000 Exhaust Manifold Spreader. Skin-packed. Shipping wt. 6 oz.
**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.

**36500 Ridge Reamer.** Range 2-11/16" - 5-5/16" (68.3 - 134.9mm) Clam Shell Package. Shipping wt. 2 lbs. 3 oz. NSN 5110-00-228-7009

**36510 Carbide Cutter**

**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.

**24000 Ring Groove Cleaner.** Skin-packed. Shipping wt. 11 oz.

**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.

**16750 Valve Spring Compressor.** Clam Shell Package. Shipping wt. 1 lb. 15 oz.

**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.

**59550 Adj. Overhead Valve Spring Compressor.** Skin-packed. Shipping wt. 11 oz.

**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.

**44300 Valve Spring Compressor.** Boxed. Shipping wt. 8 lbs. 4 oz.

**44770 Set of Offset Jaws.** 7/8" to 2-1/4" (22.2 - 57.1mm) capacity.

**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.

**23300 Small Engine Valve Spring Compressor.** Skin-packed. Shipping wt. 1 lb.
**ENGINE**

### 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.

- 36050 Valve Keeper Remover & Installer Kit. Molded case. Shipping wt. 2 lbs. 4 oz.
- 36330 Mercedes Adapter 36340 Installer
- 36380 Handle Assembly 36440 Metric Installer
- 36740 Metric Handle Assembly

### 36200 Valve Keeper Remover & Installer

36200 Valve Keeper Remover & Installer. Skin-packed. Shipping wt. 2 lbs. 12 oz.

- 36330 Mercedes Adapter 36340 Installer
- 36380 Handle Assembly

### 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.


### 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.

- 22100 Flywheel Locking Tool for 6.6L Duramax. Clam Shell Package. Shipping wt. 2 lbs.
- 22090 36mm 12 pt. Socket 22110 Duramax P/U Flywheel Lock
- 22120 Duramax 4500/5500 Flywheel Lock 22170 Socket Head Cap Screw
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.

- 23500 Glaze Breaker, Range 2" to 7", Skin-packed. Shipping wt. 1 lb. 5 oz.
- 23520 Set Replacement Stones, 220 grit. Skin-packed. Shipping wt. 3 oz.
- 23530 Set Special Hard Stones, 240 grit. For use after re-boring only. Not for glaze breaking. Skin-packed. Shipping wt. 3 oz.
- 23540 Set Replacement Stones, 320 grit. Suitable for use when installing moly rings. Skin-packed. Shipping wt. 3 oz.

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.

- 15000 Engine Cylinder Hone Set. NSN 4910-00-554-9245. Shipping wt. 6 lbs. 2 oz.

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, ensuring 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.

- 16000 Small Cylinder Hone. Range 1-3/4" to 2-3/4". Shipping wt. 4 lbs. 10 oz.

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.
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 to 2008 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.

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

65000 DEEP HOLE ALUMINUM HEAD M14x1.25 SPARK PLUG HOLE REPAIR KIT

Replaces Stripped Spark Plug Threads in Aluminum Heads with 14mm Spark Plugs.

Installs a new solid steel spark plug thread insert in original thread location. Set includes one-piece drill tap, long tap holder, short tap holder, insert installer, swedger and handle. Includes three insert sizes: 5/16", 7/16" and 11/16".

65000 Deep Hole Al Head M14x1.25 Spark Plug Hole Repair Kit, Molded Case. Shipping wt. 3 lbs. 2 oz.
65010 Drill Tap 65020 Long Tap Holder
65030 11/16" Insert (5 pack) 65040 Swedger
65060 7/16" Insert (5 pack) 65070 Short Tap Holder
65080 5/16" Insert (5 pack) 65090 Insert Installer
65100 Swedger Handle 65160 Set Screw

65900 SPARK PLUG RETHRREADING KIT FOR FORD 2 VALVE 14MM

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.

65900 Spark Plug Retreading Kit for Ford. Plastic case. Shipping wt. 9 lbs. 6 oz.
65920 Insert Installer Tip 65960 Thread Insert
66000 Tap Assembly 66010 Swedger Assembly
66040 Stop Tube 66050 Vacuum Hose Assembly
66060 Thread Sealant 66070 Thread Sealant Primer
66090 Inspection Scope

CUTAWAY VIEW OF STEEL SLEEVE AND RETAPPED ALUMINUM HEAD
CUTAWAY VIEW OF THREADED INSERT IN THE HEAD
2100 21200 Value 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.

21100 Large Valve Lapper. Skin-packed. Shipping wt. 4 oz.
21200 Small Valve Lapper. Skin-packed. Shipping wt. 2 oz.

19700 Value 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.

19700 Valve Holder. Skin-packed. Shipping wt. 5 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.

62450 Heater Hose Coupler Repair Kit. Storage Tray Shipping wt. 10 oz.
62200 Heater Hose Coupler Remover
62260 Left Hand Piloted Drill
62290 Pipe Thread 1/2-14 NPT Tap

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.

62200 Heater Hose Coupler Remover. Skin-packed. Shipping wt. 2 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.

18980 Pneumatic U-Joint Driver. Skin-packed. Shipping wt. 1 lb. 4 oz.
**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.

*14440 Water Pump Wrench for GM Northstar, Hang Tag. Shipping wt. 15 oz.*

---

**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.

*13800 Water Pump Sprocket Holder for GM Ecotec, Skin-packed. Shipping wt. 4 oz.*

---

**13500 41MM WATER PUMP WRENCH FOR GM 1.6L**
Use With 3/8" Square Drive and Short Extension to Easily Adjust and Hold the Water Pump When Replacing or Adjusting Timing Belt.

*13500 41MM Water Pump Wrench for GM 1.6L, Mini-pouched. Shipping wt. 6 oz.*

---

**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.

*23800 Flywheel Turner, Skin-packed. Shipping wt. 1 lb. 4 oz.*

---

**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 interchangeable short shaft.

*22500 Thermostat Gasket Cleaner, Skin-packed. Shipping weight 4 oz.*

*22570 Abrasive Pad*
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 2.690” (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.

18000 Universal Camshaft Bearing Tool. Molded Case. Shipping wt. 11 lbs. 4 oz.

<table>
<thead>
<tr>
<th>DRIVER RANGE</th>
<th>TABLE</th>
<th>DRIVER RANGE</th>
<th>TABLE</th>
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</thead>
<tbody>
<tr>
<td>BEARING SIZE I.D.</td>
<td>EXPANDING COLLET</td>
<td>USE WASHER</td>
<td>SLEEVE SET</td>
</tr>
<tr>
<td>1.125 TO 1.475</td>
<td>Expander assy 18330</td>
<td>18430</td>
<td>18410</td>
</tr>
<tr>
<td>1.475 TO 1.700</td>
<td>18020</td>
<td>18420</td>
<td>18140</td>
</tr>
<tr>
<td>1.700 TO 1.925</td>
<td>18040</td>
<td>18420</td>
<td>18160</td>
</tr>
<tr>
<td>1.925 TO 2.150</td>
<td>18060</td>
<td>18420</td>
<td>18180</td>
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<tr>
<td>2.150 TO 2.375</td>
<td>18080</td>
<td>18420</td>
<td>18200</td>
</tr>
<tr>
<td>2.375 TO 2.690</td>
<td>18100</td>
<td>18420</td>
<td>18220</td>
</tr>
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</table>

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.


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.

35500 Rocker Stoppers. Sixteen per set. Skin-packed. Shipping wt. 3 oz.

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.

27000 Sneaky Pete. Skin-packed. Shipping wt. 2 oz.

27020 Replacement Jaw Clip
**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.

58430 Shaft In Seal Puller. Skin-packed. Shipping wt. 6 oz.
58500 Hook

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**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.

36880 Dual Overhead Cam Lock Tool. Skin-packed. Shipping wt. 10 oz.

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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.

38220 Universal Cam Adjuster. Skin-packed. Shipping wt. 1 lb. 2 oz.

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**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.

13200 Oil Pressure Switch Socket. Hang Tag. Shipping wt. 5 oz.

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**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.

13250 Oil Pressure Switch Socket. Hang Tag. Shipping wt. 8 oz.
**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.

**12290 Dual Drive Oxygen Sensor Wrench**
Use with a Breaker Bar to Loosen Stubborn Oxygen Sensors. 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. Slotted body allows clearance for wire harnesses. Forged, heat-treated steel with six point design will withstand high torque removal applications.

**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.

**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.

**68210 IPR Socket for Ford 6.0L Diesel**
Used to Remove and Replace the Injector Pressure Regulator (IPR) on Ford 6.0L and Other Diesel Engines.
This is located in a very tight location. Tool is built to bottom out on the hex so it does not put torque on the connector in case it can be reused. Use with 3/8” drive.
### 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.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>27800</td>
<td>Universal Noid Light, Clam Shell</td>
<td>7 oz.</td>
</tr>
<tr>
<td>27790</td>
<td>Probe Adapter</td>
<td></td>
</tr>
<tr>
<td>27890</td>
<td>Wire Assembly</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>75500</td>
<td>Combustion Leak Detector, Clam Shell</td>
<td>1 lb. 14 oz.</td>
</tr>
<tr>
<td>75630</td>
<td>Replacement Fluid, 16 fluid oz.</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>75730</td>
<td>Combustion Leak Detector Fluid for Diesel</td>
<td>1 lb. 4 oz.</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20250</td>
<td>Compression Tester, Skin-packed</td>
<td>15 oz.</td>
</tr>
<tr>
<td>20100</td>
<td>Valve Core, Mini-pouched</td>
<td></td>
</tr>
<tr>
<td>20280</td>
<td>14mm Adapter</td>
<td></td>
</tr>
</tbody>
</table>

### 20300 Vacuum Gauge and Fuel Pump Tester
Easy reading gauge assures accurate vacuum and pressure check.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>20300</td>
<td>Vacuum Gauge, Skin-packed</td>
<td>9 oz.</td>
</tr>
</tbody>
</table>
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.

*52500 Stethoscope. Skin-packed. Shipping wt. 6 oz.*

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.

*52700 Audio Stethoscope. Skin-packed. Shipping wt. 9 oz.*

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.

*52750 Stethoscope Set. Clam Shell. Shipping wt. 10 oz.*

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.

*28500 Strap Wrench. Skin-packed. Shipping wt. 10 oz.*

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.

*24750 Fender Protector. Plastic Bag. Shipping wt. 1 lb. 5 oz.*
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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>24610</td>
<td>Spill-Free™ Funnel, Boxed. Shipping wt. 1 lb. 3 oz.</td>
</tr>
<tr>
<td>22210</td>
<td>Funnel</td>
</tr>
<tr>
<td>22280</td>
<td>45° Elbow</td>
</tr>
<tr>
<td>22300</td>
<td>Fluid Stopper</td>
</tr>
<tr>
<td>22330</td>
<td>Large Cap A</td>
</tr>
<tr>
<td>22340</td>
<td>Medium Cap B</td>
</tr>
<tr>
<td>22370</td>
<td>Large Adapter A with Gasket</td>
</tr>
<tr>
<td>22390</td>
<td>Medium Adapter B with Gasket</td>
</tr>
<tr>
<td>22410</td>
<td>Small Cap C</td>
</tr>
<tr>
<td>22450</td>
<td>Small Adapter C with Gasket</td>
</tr>
<tr>
<td>22460</td>
<td>Threaded Cap D for GM</td>
</tr>
<tr>
<td>24640</td>
<td>Threaded Adapter D with Gasket</td>
</tr>
</tbody>
</table>

24650 Threaded Adapter D with Gasket for GM

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.

24700 Radiator Cap Wrench for GM. Skin-packed. Shipping wt. 6 oz.
**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.

51700 Harmonic Balancer Puller Set. Shipping wt. 8 lbs.

**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.

51450 Harmonic Damper Pulley Puller. Clam Shell. Shipping wt. 2 lb. 11 oz.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>49520</td>
<td>Clevis Pin</td>
</tr>
<tr>
<td>51640</td>
<td>Jaw</td>
</tr>
<tr>
<td>51670</td>
<td>Magnet and Housing Assembly</td>
</tr>
<tr>
<td>51680</td>
<td>6.5” Rod</td>
</tr>
</tbody>
</table>

**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.

45300 Harmonic Balancer Puller for GM. Boxed. Shipping wt. 2 lbs. 9 oz.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>45300</td>
<td>Harmonic Balancer Puller for GM</td>
</tr>
<tr>
<td>45350</td>
<td>Retrofit Kit for 45500, Mini-pouched. Shipping wt. 8 oz.</td>
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<tr>
<td>45310</td>
<td>Bolt (3)</td>
</tr>
<tr>
<td>45320</td>
<td>Adapter</td>
</tr>
<tr>
<td>45510</td>
<td>Body</td>
</tr>
<tr>
<td>45530</td>
<td>Center Screw</td>
</tr>
</tbody>
</table>

**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.

45500 Harmonic Balancer Puller. Clam Shell Package. Shipping wt. 3 lbs. 10 oz.
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.

| 38860 Body | 38930 Med. 3/8"x16 Install. Adapter |
| 38880 Hub | 38940 Short Pin |
| 38900 Removing Adapter | 38950 Long Pin |
| 38910 Short 3/8"x16 Install. Adapter | 38960 Long 3/8"x16 Install. Adapter |
| 38920 Short 6mm Install. Adapter | 38990 Puller Screw |

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.

| 57340 Steering Wheel Lock Plate Tool | Skin-packed. Shipping wt. 1 lb. 8 oz. |

45000 Steering Wheel Puller
Universal Puller for Most Makes & Models.
Screw pad protects end of steering shaft. Heavy duty for long wear.

| 45000 Steering Wheel Puller | Clam Shell Package. Shipping wt. 1 lb. 10 oz. |
| 45050 Screw Pad |

19940 Pivot Pin Remover
Removes the pivot pin on GM, Ford and Chrysler tilt and telescoping Saginaw steering columns. Includes an extra screw.

| 19940 Pivot Pin Remover | Skin-packed. Shipping wt. 2 oz. |
| 19970 Cap Screw |

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. |
**Fan Clutch**

**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.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>43370</td>
<td>Handle Assembly</td>
</tr>
<tr>
<td>43380</td>
<td>32mm Driving Wrench</td>
</tr>
<tr>
<td>43390</td>
<td>36mm Driving Wrench</td>
</tr>
<tr>
<td>43410</td>
<td>1-7/8&quot; Driving Wrench</td>
</tr>
<tr>
<td>43420</td>
<td>2&quot; Driving Wrench</td>
</tr>
<tr>
<td>43430</td>
<td>7/8&quot; Driving Wrench</td>
</tr>
<tr>
<td>43440</td>
<td>40mm Driving Wrench</td>
</tr>
<tr>
<td>43530</td>
<td>47mm Driving Wrench</td>
</tr>
</tbody>
</table>

| 433900 Pneumatic Fan Clutch Wrench Set. Molded Case. Shipping wt. 9 lbs. 5 oz. |

**43600 Universal Fan Clutch Wrench Set**

Three Piece Set Includes a Double-Ended Turning Wrench and Two Holding Wrenches to Fit Most All Applications.

The two pin spanner wrench configurations work on GM, Jeep and Dodge trucks, vans and SUVs with pressed-on water pump pulleys. The double-sided spanner wrench fits two holes in pressed-on water pump pulleys. The universal holding wrench works on all sizes of bolt-on water pump pulleys.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>43560</td>
<td>36mm - 47mm Fan Clutch Wrench</td>
</tr>
<tr>
<td>43570</td>
<td>Universal Holding Wrench</td>
</tr>
<tr>
<td>43580</td>
<td>GM/Dodge Holding Wrench</td>
</tr>
</tbody>
</table>

| 43600 Universal Fan Clutch Wrench Set. Clam Shell Package. Shipping wt. 3 lbs. 6 oz. |

**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).

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>44180</td>
<td>Fan Clutch Spanner Wrench</td>
</tr>
</tbody>
</table>

| 44180 Fan Clutch Spanner Wrench. Skin-packed. Shipping wt. 2 lbs. 5 oz. |
**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.

- **41800 Fan Clutch Wrench Set for Ford.** Boxed. Shipping wt. 7 lbs. 3 oz.
- **41810 36mm / 1-9/16" Wrench**
- **41820 58mm Wrench**
- **41860 1-7/8" Wrench**
- **41870 3-1/4" Wrench**

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**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.

- **41730 Fan Clutch Wrench Set.** Molded Case. Shipping weight 4 lb. 6 oz.
- **41740 36mm Wrench for GM, Chrysler & Jeep**
- **41770 3/"76mm Wrench for Jeep, Chrysler**
- **41780 2-3/8"/60mm Wrench for GM**

---

**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).

- **42920 Universal Fan Clutch Wrench Set.** Boxed. Shipping wt. 8 lb. 5 oz.
- **42930 Turning Wrench.**
- **42940 Holding Wrench.**
## Fuel Management

### 39800 Master Plus Disconnect Set
A complete set of disconnect tools that can be stored in a handy blow-molded case. All disconnect tools are also available individually.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>39800</td>
<td>Master Plus Disconnect Set</td>
<td>3 lbs. 13 oz.</td>
</tr>
<tr>
<td>22720</td>
<td>3/8&quot; Jiffy-tite® Disconnect</td>
<td></td>
</tr>
<tr>
<td>22730</td>
<td>1/2&quot; Jiffy-tite® Disconnect</td>
<td></td>
</tr>
<tr>
<td>34750</td>
<td>Low Profile Fuel Line Disc. Set</td>
<td></td>
</tr>
<tr>
<td>37500</td>
<td>Fuel Line Quick Disc. for GM</td>
<td></td>
</tr>
<tr>
<td>39940</td>
<td>Coupler Disconnect</td>
<td></td>
</tr>
<tr>
<td>39960</td>
<td>Ford Transmission Line Disc. Set</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>39900</td>
<td>Master Disconnect Set</td>
<td>3 lbs. 13 oz.</td>
</tr>
<tr>
<td>39960</td>
<td>Ford Transmission Line Disconnect</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>34750</td>
<td>Low Profile Fuel Line Disconnect Set</td>
<td>5 oz.</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>35000</td>
<td>Fuel Filter Disconnect for GM</td>
<td>2 oz.</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>37500</td>
<td>Fuel Module Disconnect Tool for GM</td>
<td>1 oz.</td>
</tr>
</tbody>
</table>
**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".

**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.

**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.

**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.
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.

51750 Adjustable Spark Plug Wire Puller, Skin-packed. Shipping wt. 10 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.

52990 Spark Plug Pliers, Skin-packed. Shipping wt. 8 oz.

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.

51500 Spark Plug Wire Puller. Skin-packed. Shipping wt. 2 oz.

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.

51250 Spark Plug Wire Puller, Skin-packed. Shipping wt. 4 oz.

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.

51600 Spark Plug Wire Puller. Skin-packed. Shipping wt. 3 oz.
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 3/4" spark plug socket.
20200 Spark Plug Hole Chaser. Skin-packed. Shipping wt. 3 oz.

20020 Limited Access Spark Plug Chaser M14x1.25
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.
20020 Limited Access Spark Plug Chaser. Skin-packed. Shipping wt. 3 oz.

20000 M12x1.25 Limited Access Spark Plug Chaser
The Narrow Profile Allows Access to Spark Plug Holes in Confined Spaces.
Use with a 3/8" ratchet and locking extension. For use on 2nd Generation Ford Triton Engines 2008 and newer. Also for use on Mercedes Benz most V6 & some V8 models newer than 2006. Nissan 2.0L 2007 and newer. Toyota Scion 1.8L 2008 and newer. Can also be used on some motorcycles, lawn mowers, snowmobiles and other small engine applications.
20000 M12x1.25 Limited Access Spark Plug Chaser. Skin-packed. Shipping wt. 3 oz.

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.
19380 Spark Indicator. Skin-packed. Shipping wt. 1 oz.

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.
26900 Spark Plug Wire Tester. Skin-packed. Shipping wt. 2 oz.
19370 Replacement Bulb
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.

- 20610 Inline Spark Tester. Skin-packed. Shipping wt. 5 oz.
- 20680 Replacement Bulb

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. 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.

- 50850 Ignition Spark Tester. Skin-packed. Shipping wt. 2 oz.

20750 **Remote Starter**
Tough, Smooth-working, Reliable Switch.
Features heavy gauge, rubber-covered copper wire. Depress button to jog or start the engine.

- 20750 Remote Starter. Skin-packed. Shipping wt. 6 oz.

55250 **Carburetor Adjusting Tool**
Heavy-duty flexible shaft for easy access. Four adapters conveniently store in the hollow handle.

- 55250 Carburetor Adjusting Tool Skin-packed. Shipping wt. 5 oz.
- 55300 "Double D" for GM, '79 thru present.
- 55310 1/4" Hex for pre- '78 GM.
- 55320 3/32" Hex for '78 through present Chrysler 1.7L - 2.2L engines.
- 55330 4.5mm Hex for '78 and '79 GM.

46500 **Carburetor Pin Tool**
For fast, sure removal and installation of carburetor linkage pins. Also for "E" clips and other small parts.

- 46500 Carburetor Pin Tool. Skin-packed. Shipping wt. 2 oz.

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.

- 75000 Vacuum Pump. Skin-packed. Shipping wt. 1 lb. 10 oz.
- 75400 Vacuum Pump Repair Kit. Bagged. Shipping wt. 1 oz.
- 75200 Vacuum Testing / Brake Bleeding Kit. Molded Case. Shipping wt. 4 lbs. 8 oz.
**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. Teeth of the tool fit perfectly into tight tolerance of Jiffy-tite connectors so they can be reused.

- **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 and White

**39960 Transmission Oil Cooler Line Disconnect for Ford**

Use 3/8" size for '03 - '10 Ford V8 Explorer, '04 and later Ford F150 and Cadillac CS. Use 1/2" size for Ford Super Duty Trucks, F250, F350 and F450. Simply push the line toward the connector, then engage tool and pull line from connector.

**39660 Transmission Oil Cooler Line Scissors 3/8" x 1/2"**

Stepped Design with Two Sizes to Work on Ford and Cadillac Vehicles.

Similar in function to our 39960 plastic model but made from metal and in a scissor design.

**23400 Transmission/Transaxle Plugs**

Stops Loss of Transmission Fluid.

Stepped plugs fit transmissions and transaxes on most cars and pickups. Stepped design prevents slipping. Plugs cover a range of 1" - 2.180" (25.4mm - 55.37mm).

**55600 Clutch Pilot Bushing Remover**

Uses Hydraulic Pressure to Remove 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 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.

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.
## 57010 57020 57030 57040 SWIVEL-GRIPTM “NO-SLIP” FILTER WRENCH

Tough, Stainless Steel Band with Permanently Bonded Textured Coating for Superior Gripping Power...won’t Slip.

Swivel handle makes it easy to turn in tight spots. Handle swivels more than 180° with adjustable tension. Tension adjusting nut allows swivel pressure to be regulated — no more floppy filter wrenches. Patent pending coating process adds many additional gripping points to securely grab the filter. Extra Small Swivel-Gripper has a special narrow 1/2" band to fit into tight places. Can also be used on some fuel filters. Large Swivel-Gripper fits many tractors and other farm implement products.

### 57010 Extra Small Swivel-Gripper
- Range: 2.375" - 2.625" (60.3 - 66.7mm)
- Skin-packed. Shipping wt. 12 oz.

### 57020 Small Swivel-Gripper
- Range: 2.875" - 3.25" (73 - 82.5mm)
- Skin-packed. Shipping wt. 12 oz.

### 57030 Standard Swivel-Gripper
- Range: 3.5" - 3.875" (88.9 - 98.4mm)
- Skin-packed. Shipping wt. 13 oz.

### 57040 Large Swivel-Gripper
- Range: 4.125" - 4.5" (104.7 - 114.3mm)
- Skin-packed. Shipping wt. 13 oz.

## 53200 53250 53500 53700 54200 54300 54400 “SWIVEL GRIP” OIL FILTER WRENCHES

Handle Swivels to Clear Obstructions.

All models feature the swivel handle, gripper “teeth” and 1" wide stainless steel band. The swivel handle makes it easy to turn filters in hard to reach locations. Vinyl covered handle.

### 53200 John Deere Oil Filter Wrench
- Range: 4.75" - 5.1875" (120.7 - 131.8mm)
- Skin-packed. Shipping wt. 14 oz.

### 53250 Large Swivel Grip Oil Filter Wrench
- Range: 4.125" - 4.5" (104.7 - 114.3mm)
- Skin-packed. Shipping wt. 12 oz.

### 53500 Standard Swivel Grip Oil Filter Wrench
- Range: 3.5" - 3.875" (88.9 - 98.4mm)
- Skin-packed. Shipping wt. 12 oz. NSN 5120-00-228-6287

### 53700 Small Swivel Grip Oil Filter Wrench
- Range: 2.875" - 3.25" (73 - 82.5mm)
- Skin-packed. Shipping wt. 12 oz.

### 54200 Oil Filter Wrench for Cummins & Detroit Diesel Engines
- Range: 4.3125" - 4.75" (109.5 - 120.7mm)
- Skin-packed. Shipping wt. 13 oz.

### 54300 Oil Filter Wrench for Caterpillar Engines
- Range: 5.25" - 5.75" (133.5 - 146mm)
- Skin-packed. Shipping wt. 14 oz.

### 54400 Swivel Grip Oil/Fuel Filter Wrench
- Range: 2.375" - 2.625" (60.3 - 66.7mm)
- Skin-packed. Shipping wt. 11 oz.

## 53900 FILTER WRENCH

Straight Handle Filter Wrench.

1" stainless steel band with special “teeth” grips tightly. Vinyl-covered handle provides firm, comfortable grip.

### 53900 Filter Wrench
- Range: 3 1/2" to 3 7/8" (88.9 - 98.4mm)
- Skin-packed. Wt. 11 oz
**54880 End Cap Filter Wrench Master Set**

A Collection of 17 End Cap Filter Wrenches for use on the Most Popular Domestic and Import Vehicles.

Made with the square drive reinforcement plate on the outside of the tool to provide maximum filter clearance. Includes the new end cap for Toyota cannisters.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Flutes</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>54880</td>
<td>End Cap Filter Wrench Master Set</td>
<td></td>
<td>7 lbs. 13 oz.</td>
</tr>
<tr>
<td>*54930</td>
<td>65mm - 14 flutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58330</td>
<td>68mm - 14 flutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*54740</td>
<td>74/76mm - 15 flutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58340</td>
<td>76mm - 30 flutes</td>
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<tr>
<td>54380</td>
<td>82mm - 15 flutes</td>
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<td></td>
</tr>
<tr>
<td>58350</td>
<td>86mm - 16 flutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*54780</td>
<td>93mm - 15 flutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54360</td>
<td>93mm - 45 flutes</td>
<td></td>
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</tr>
<tr>
<td>58360</td>
<td>100mm - 15 flutes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Also available packaged for display. Others are available mini-pouched.

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**54920 Cap Style Filter Wrench Set**

Set Includes Ten 3/8" Drive Cap Wrenches.

Fits many domestic and import automotive applications. Complete set comes in a handy 10" x 13" plastic case.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Flutes</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>54920</td>
<td>Cap Style Filter Wrench Set</td>
<td></td>
<td>5 lbs. 7 oz.</td>
</tr>
<tr>
<td>*54700</td>
<td>65/67mm - 14 Flutes</td>
<td></td>
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</tr>
<tr>
<td>58330</td>
<td>68mm - 14 Flutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*54740</td>
<td>74/76mm - 15 Flutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54700</td>
<td>80mm - 15 Flutes</td>
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<td>58350</td>
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<td></td>
</tr>
<tr>
<td>*54780</td>
<td>93mm - 15 Flutes</td>
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<td></td>
</tr>
<tr>
<td>54370</td>
<td>93mm - 36 Flutes</td>
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<td></td>
</tr>
<tr>
<td>58360</td>
<td>100mm - 15 Flutes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Also available packaged for display. Others are available mini-pouched.

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**13300 5 Pc. Filter Socket Set/14650 3 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>13300</td>
<td>5 Pc. Filter Socket Set</td>
<td>1 lb. 13 oz.</td>
</tr>
<tr>
<td>14650</td>
<td>3 Pc. Filter Socket Set</td>
<td>1 lb. 6 oz.</td>
</tr>
</tbody>
</table>

*Available individually packaged for display. Others are mini-pouched.
**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.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>50750 Oil Filter Pliers</td>
<td>Skin-packed. Shipping wt. 1 lb. 5 oz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50950 Truck And Tractor Oil Filter Pliers</td>
<td>Skin-packed. Shipping wt. 1 lb. 13 oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>63250 Wide Range Filter Wrench</td>
<td>Skin-packed. Shipping wt. 14 oz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63600 Import Car Filter Wrench</td>
<td>Skin-packed. Shipping wt. 14 oz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63630 Replacement Spring</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**53100 Adjustable Oil Filter Wrench**

For Trucks and Tractors. Fits John Deere, Case, Caterpillar, Mack, Detroit Diesel and Others. Tough, stainless steel band adjusts for extra range...won't slip. Professional quality. 1/2" square drive. Range 4-3/8" - 5-5/8" (111.1 - 142.8mm).

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>53100 Adjustable Oil Filter Wrench</td>
<td>Skin-packed. Shipping wt. 14 oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>53400 Universal 3&quot; Oil Filter Wrench</td>
<td>Skin-packed. Shipping wt. 8 oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**53000 Oil Pan Plug Wrench for GM**

Removes the 3-1/4" Drain Plug on GM Four Cylinder Cars Where the Oil Filter is in the Pan. Works where the original hex on the plug has been rounded off. Simply install wrench into recess in plug and turn counterclockwise to loosen. Reverse procedure to install. Works with 1/2" drive.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Packaging</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>53000 Oil Pan Plug Wrench for GM</td>
<td>Skin-packed. Shipping wt. 1 lb. 4 oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.
63500 Big Range Filter Wrench. Skin-packed. Shipping wt. 10 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.
34000 Oil Filler Cap Wrench for Dodge. Skin-packed. Shipping wt. 6 oz.

58850 OIL PAN PLUG RETREADING 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.
58850 Oil Pan Plug Retreading Kit. Molded Case. Shipping wt. 2 lb. 1 oz.
58650 Plugs & Gaskets (Set of 5) 58880 Piloted Drill Assembly
58900 Tap

69000 DUAL DRIVE STUBBY METRIC HEX BIT SET
Stubby Design with Dual Drive Works in Tight Spots.
Specially designed dual drive. Bits can be turned with a 1/2" square drive from the end or using a 1" open end, box end or ratcheting wrench. Collar keeps wrench from slipping. Strong but stubby design works great in tight quarters. Bits are made of head-treated alloy steel for strength and are stamped with the driver size. Only 1.63" in length.
69000 Dual Drive Stubby Metric Hex Bit Set. Skin-packed. Shipping wt. 1 lb. 2 oz.
69120 10mm Stubby Hex Bit 69130 12mm Stubby Hex Bit
69140 14mm Stubby Hex Bit 69150 17mm Stubby Hex Bit
26550 27200 27740 Torx® Bit Sets
Sizes for Most 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.

26550 9 Piece Torx® Bit Set. Skin-packed. Shipping wt. 8 oz.
27200 12 Piece Torx® Bit Set. Skin-packed. Shipping wt. 15 oz.
27740 Brake Caliper Torx® Bit Set. Skin-packed. 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.

*Both sets in convenient vinyl holder. All bits are available individually skin-packed.

27530 T-70 Torx® Bit
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.

37600 Super Torx® Bit 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.

37600 9 Piece Super Torx® Bit Set. Skin-packed. Shipping wt. 13 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.

37940 12pc. Super Torx® Bit Set. Skin-packed. Shipping wt. 1 lb. 5 oz.
All bits are available individually skin-packed.

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.

26000 Tamper-Resistant Torx® Bit Set. Skin-packed. Shipping wt. 3 oz.

26530 Master Tamper Resistant Torx® Bit Set
Ten hex inserts with two bit holders. Seven smallest bits are used with the 1/4” drive 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.

26530 Master Tamper Resistant Torx® Bit Set. Skin-packed. Shipping wt. 7 oz.

TORX® is a trademark of Acument Intellectual Properties, LLC.
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 Torx Socket Set.** Skin-packed. Shipping wt. 1 lb.
- **26750 Torx Socket Set.** Skin-packed. Shipping wt. 9 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Bolt Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>26770</td>
<td>E-5</td>
<td>#8, 4mm</td>
</tr>
<tr>
<td>26780</td>
<td>E-6</td>
<td>#10, 5mm</td>
</tr>
<tr>
<td>26790</td>
<td>E-7</td>
<td>5/16”, 8mm</td>
</tr>
<tr>
<td>26800</td>
<td>E-8</td>
<td>#12 &amp; 1/4&quot;, 6mm</td>
</tr>
<tr>
<td>26820</td>
<td>E-10</td>
<td>5/16&quot;, 8mm</td>
</tr>
<tr>
<td>26830</td>
<td>E-12</td>
<td>3/8&quot;, 10mm</td>
</tr>
<tr>
<td>26840</td>
<td>E-14</td>
<td>7/16&quot;, 12mm</td>
</tr>
<tr>
<td>26850</td>
<td>E-16</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>26860</td>
<td>E-18</td>
<td>9/16&quot;, 14mm</td>
</tr>
<tr>
<td>26870</td>
<td>E-20</td>
<td>5/8&quot;, 16mm</td>
</tr>
</tbody>
</table>

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.

- **27490 E-4 Torx Socket.** Skin-packed. Shipping wt. 1 oz.

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.

- **26450 Master Torx® Set.** Molded Case. Shipping wt. 3 lbs. 4 oz.

<table>
<thead>
<tr>
<th>Torx Bits</th>
<th>Tamper Resistant Torx Bits</th>
<th>Torx Sockets</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-10 T-40</td>
<td>T-10 T-40</td>
<td>E5 E12</td>
</tr>
<tr>
<td>T-15 T-45</td>
<td>T-15 T-45</td>
<td>E6 E14</td>
</tr>
<tr>
<td>T-20 T-47</td>
<td>T-20 T-50</td>
<td>E7 E16</td>
</tr>
<tr>
<td>T-25 T-50</td>
<td>T-25 T-55</td>
<td>E8 E18</td>
</tr>
<tr>
<td>T-27 T-65</td>
<td>1/4” Bit Holder</td>
<td>E10 E20</td>
</tr>
</tbody>
</table>

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 Magnetic Torx Screwdriver Set.** Skin-packed. Shipping wt. 4 oz.

<table>
<thead>
<tr>
<th>Replacement Bits</th>
<th>Part No.</th>
<th>Bit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14790</td>
<td>T-15</td>
</tr>
<tr>
<td></td>
<td>14800</td>
<td>T-20</td>
</tr>
<tr>
<td></td>
<td>14810</td>
<td>T-25</td>
</tr>
<tr>
<td></td>
<td>14820</td>
<td>T-30</td>
</tr>
</tbody>
</table>
**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.

- **13600 Hex Bit Set.** Skin-packed. Shipping wt. 10 oz.
- **33850 Metric Hex Bit Set.** Skin-packed. Shipping wt. 11 oz.

All bits are available individually skin-packed.

---

**42150 42300 Hex Key Sets**

In a Handy Storage Case.

- **42150 Standard Set.** Skin-packed. Shipping wt. 7 oz.
- **42300 Metric Set.** Skin-packed. Shipping wt. 10 oz.

Also available individually.

---

**42500 42650 Long Arm Hex Key Sets**

In a Handy Storage Case.

- **42500 Standard Long Arm Hex Key Set.** Skin-packed. Shipping wt. 10 oz.
- **42650 Metric Long Arm Hex Key Set.** Skin-packed. Shipping wt. 13 oz.

Also available individually.

---

**42000 42020 42040 Hex/Torx® Key Sets**

Keys are Heat Treated Alloy Steel.

- **42000 Folding 9 Hex Key Set.** Folded length is 3-1/2”. Shipping wt. 5 oz.
- **42020 Folding Metric 7 Hex Key Set.** Folded length is 3-3/4”. Shipping wt. 5 oz.
- **42040 Folding Torx 7 Key Hex Set.** Folded length is 4-1/4”.

Torx® is a trademark of Accument Intellectual Properties, LLC.
**60850 MASTER TRIPLE SQUARE BIT SET**

Nine Piece Triple Square (12 point) Bits to Fit 4, 5, 6, 8, 10, 12, 14, 16 and 18mm Sizes.

For head bolts, brake caliper bolts, door handle screws, axle bolts and other applications. The 4 and 5mm bits have 5/16" hex drive. The 6, 8, 10 and 12mm bits have 1/2" hex drive. The 14 and 16mm bits have 5/8" hex drive. The 18mm bit has a 3/4" hex drive. The three largest sizes are designed to work on tamper-proof applications.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bolt Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>60710</td>
<td>4mm</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>60720</td>
<td>5mm</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>60730</td>
<td>6mm</td>
<td>3/32&quot;</td>
</tr>
<tr>
<td>60770</td>
<td>8mm</td>
<td>11/64&quot;</td>
</tr>
<tr>
<td>60790</td>
<td>10mm</td>
<td>15/64&quot;</td>
</tr>
<tr>
<td>60870</td>
<td>12mm</td>
<td>9/32&quot;</td>
</tr>
<tr>
<td>60880</td>
<td>14mm</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>60900</td>
<td>16mm</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>60920</td>
<td>18mm</td>
<td>9/32&quot;</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bolt Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>60760</td>
<td>6mm</td>
<td>3/32&quot;</td>
</tr>
<tr>
<td>60780</td>
<td>8mm</td>
<td>11/64&quot;</td>
</tr>
<tr>
<td>60790</td>
<td>10mm</td>
<td>15/64&quot;</td>
</tr>
<tr>
<td>60870</td>
<td>12mm</td>
<td>9/32&quot;</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bolt Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>19260</td>
<td>#1 Remover, Fits 1/4&quot; and 6mm.</td>
<td></td>
</tr>
<tr>
<td>19270</td>
<td>#2 Remover, Fits 5/16&quot; and 8mm.</td>
<td></td>
</tr>
<tr>
<td>19280</td>
<td>#3 Remover, Fits 3/8&quot; and 10mm.</td>
<td></td>
</tr>
<tr>
<td>19290</td>
<td>#4 Remover, Fits 7/16&quot; and 11mm.</td>
<td></td>
</tr>
<tr>
<td>19300</td>
<td>#5 Remover, Fits 1/2&quot; and 13mm.</td>
<td></td>
</tr>
<tr>
<td>19310</td>
<td>#6 Remover, Fits 9/16&quot; and 14mm.</td>
<td></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bolt Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>62560</td>
<td>1/4</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>62570</td>
<td>5/16</td>
<td>11/64&quot;</td>
</tr>
<tr>
<td>62580</td>
<td>7/16</td>
<td>9/32&quot;</td>
</tr>
<tr>
<td>62590</td>
<td>1/2</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

**ALL BITS ARE ALSO AVAILABLE INDIVIDUALLY SKIN-PACKED**
**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!

**29200 Hand Impact Tool Set**
- 3/8" sq. drive with 3/8" drive bit holder; #1, #2, #3, #4 Phillips, and 3/8" straight slot bits. Shipping wt. 2 lbs. 10 oz. NSN 5120-01-072-2956

**30200 Hand Impact Tool Set**
- 1/2" sq. drive with 1/2" drive bit holder; #1, #2, #3, #4 Phillips, and 3/8" straight slot bits. Shipping wt. 2 lbs. 10 oz. NSN 5120-01-072-2956

---

**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.

**28100 Torque Angle Meter** Skin-packed. Shipping wt. 13 oz.

---

**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.

**64250 Right Angle Ratcheting Screwdriver** Skin-packed. Shipping wt. 6 oz.

---

**64650 Ignition Module Wrench for Ford**

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

**64650 Ignition Modulator Wrench for Ford** Skin-packed. Shipping wt. 2 oz.

---

**71200 Stud Remover**

Removes Studs from Engine Blocks, Exhaust Manifolds, Cylinder Heads and Other Applications.

Allows for easy removal of studs. Tool has two holes, 1/2" (14mm) and 3/4" (19mm) for optimum fit, minimizing damage to threads. Range 3/8" (10mm) – 3/4" (19mm). Design allows tool to grip flush with mounting surface of the stud so it can grab studs that are broken off very close to the mounting surface. Use with 1/2" square drive.

**71200 Stud Remover** Clam Shell. Shipping wt. 20 oz.
**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.

49200 Heavy Duty Snap Ring Pliers. Skin-packed. Shipping wt. 12 oz.
49460 Replacement Tip Set

**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.

46000 Snap Ring Pliers. Skin-packed. Shipping wt. 7 oz.
46250 Replacement Tip Set

**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.

44900 Lock Ring Pliers. Skin-packed. Shipping wt. 8 oz.

**42400 5 pc. Air Line Disconnect Set**

Disconnects Quick Connect Push-In Connectors Found on Heavy-Duty Truck Air Systems and More.

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. Smallest size also works on automatic adjusting air suspension systems for automobiles. Set comes with five popular sizes: 1/8-5/32", 1/4", 3/8", 1/2" and 5/8". Each tool is double-ended to disconnect air lines even in hard-to-reach areas.

42400 5 pc. Air Line Disconnect Set. Skin-packed. Shipping wt. 1 lb.
42100 1/4" Air Line Disconnect
42110 3/8" Air Line Disconnect
42120 1/2" Air Line Disconnect
42130 5/8" Air Line Disconnect
42470 1/8-5/32" Air Line Disconnect
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.

<table>
<thead>
<tr>
<th>29650 Antenna Nut Socket Set</th>
<th>Skin-packed. Shipping wt. 12 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>29910 Antenna Nut Socket #1</td>
<td>29820 Antenna Nut Socket #2</td>
</tr>
<tr>
<td>29830 Antenna Nut Socket #3</td>
<td>29600 Antenna Nut Socket #4</td>
</tr>
</tbody>
</table>

---

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.

| 63900 Window Holder | Clam Shell Package. Shipping wt. 5 oz. |

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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.

| 14540 Headlight Adjusting Ratchet for Ford | Skin-packed. Shipping wt. 6 oz. |

---

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.

<table>
<thead>
<tr>
<th>65800 Door Adjuster</th>
<th>Boxed. Shipping wt. 5 lbs. 2 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>65810 Two-Headed Pin Adapter</td>
<td></td>
</tr>
</tbody>
</table>
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.

*47000 Windshield Locking Strip Tool. Skin-packed. Shipping wt. 7 oz.*

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.

*35150 Window Belt Molding Remover. Skin-packed. Shipping wt. 5 oz.*

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.

*35200 Windshield Molding/Door Handle Clip Pliers. Skin-packed. Ship wt. 5 oz.*

65750 **WINDSHIELD WIPER ARM REMOVER**

Makes Wiper Arm Removal and Replacement an Easy Job.

Easily removes wiper arms without damage to car finish.

*65750 Windshield Wiper Arm Remover. Skin-packed. Shipping wt. 4 oz.*

NSN 5120-00-419-5693

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.

*59250 Molding Remover Set. Skin-packed. Shipping wt. 9 oz.*

59300 3-1/2" Blade 59310 2" Blade
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.

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.

18600 Window and Door Clip Remover / Installer
Removes and Installs Door Handle and Window Crank Clips.
Works on the common "C" type clip. Really fast and easy. Helps prevent damage to door panel upholstery. Opposite end firmly holds clip for easy installation.

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.

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.
**57920 Battery Carrying Strap**
Makes Carrying Side-Mount and Top Terminal Batteries Safe and Easy.
Heavy-duty 14" plastic strap resists damage from battery acid. The ends of the strap are marked for easy identification of positive and negative terminals. The built-in studs can also be used to attach a charger to side-mounted terminals.

57920 Battery Carrying Strap. Skin-packed. Shipping wt. 7 oz.

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**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 non-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.

57850 Battery Carrier. Hang Card. Shipping wt. 1 lb. 11 oz.

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**55410 Battery Clamp Spreader & Cleaner**
One Tool for Two Jobs.
Dual-use pliers spread battery post clamp and tapered, ribbed tips remove corrosion and build-up from inside the clamp.

55410 Battery Clamp Spreader & Cleaner. Skin-packed. Shipping wt. 11 oz.

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**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.

54150 Battery Terminal & Wiper Arm Puller. Skin-packed. Shipping wt. 10 oz.

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**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.

11120 Battery Brush. Skin-packed. Shipping wt. 3 oz.

---

**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.

11400 Side Terminal Battery Cleaner. Skin-packed. Shipping wt. 2 oz.
**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.

<table>
<thead>
<tr>
<th>56810 Relay Test Jumper Kit. Molded Case. Shipping wt. 9 oz.</th>
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<tbody>
<tr>
<td>56820 Yellow Jumper</td>
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<td>56830 Red Jumper</td>
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<tr>
<td>56840 Blue Jumper</td>
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<td>56850 Green Jumper</td>
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**60610 RELAY TEST JUMPER KIT II**
Set Makes Testing Relays or Live Circuits Quick and Easy on Additional Applications.
Set includes four jumpers to fit many popular relays on Honda, Hyundai, Mitsubishi, Nissan, Toyota, newer Ford and GM mini micro relays as well as International trucks. Simply remove relay to be tested, insert correct jumper and insert relay into jumper. When using grey 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.

<table>
<thead>
<tr>
<th>60610 Relay Test Jumper Kit II. Molded Case. Shipping wt. 9 oz.</th>
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<tr>
<td>60620 Orange Jumper</td>
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<td>60630 White Jumper</td>
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<tr>
<td>60640 Purple Jumper</td>
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<tr>
<td>60650 Grey Jumper</td>
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**69200 TEST LEAD KIT FOR RELAY TEST JUMPERS**
Use with 56810 or 60610 to Easily and Securely Connect Relay Test Jumper to a Multimeter.
Can also use banana plug to pin probe adapter for use with pin probes. Kit contains two terminal to banana tip wires, two pin tip to banana plug adapters and one terminal to banana tip wire with jumper wire. Jumper wire may be used between common and open to close the relay circuit for testing and has a test port to easily check voltage. Also provides access for a clamp-on amp meter.

<table>
<thead>
<tr>
<th>69200 Test Lead Kit for Relay Test Jumpers. Bagged. Shipping wt. 2 oz.</th>
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<tbody>
<tr>
<td>69210 Orange Banana Plug Adapter (2)</td>
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<td>69220 Terminal to Blue Plug</td>
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<td>69230 Terminal to Yellow Plug</td>
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<td>69240 Y Terminal to Green Plug</td>
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**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.

| 46950 Relay Puller Pliers. Skin-packed. Shipping wt. 5 oz. |
**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.

32150 Power/Ground Outlet. Skin-packed. Shipping wt. 3 oz.

---

**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.

13120 Electrical Connector Separator. Skin-packed. Shipping wt. 3 oz.

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**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.

14900 Wire Terminal Tool. Skin-packed. Shipping wt. 2 oz.
56500 Wire Terminal Tool. Skin-packed. Shipping wt. 2 oz.

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**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.

55000 Magnetic Soldering Clamp. Skin-packed. Shipping wt. 3 oz.
**28400 Heavy Duty Circuit Tester**

Quickly Tests Low Voltage up to 12 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.

- **28400 Heavy Duty Circuit Tester.** Skin-packed. Shipping wt. 7 oz.
- **28440 Replacement Bulb**

---

**30610 Heavy-Duty Circuit Tester with Grounding Adapters**

Heavy-Duty Circuit Tester with Multiple Ground Source Connection Options.

Heavy-duty circuit tester with multiple options for connecting to a ground source. Long, 12’ cord has a quick coupler to securely connect clamp or power outlet plug. Large, strong clamp connects securely. Power outlet plug can always be used to provide ground in the cabin. For testing circuits up to 12 volts.

- **30610 Heavy-Duty Circuit Tester with Grounding Adapters.** Skin-packed. Shipping wt. 7 oz.
- **28440 Replacement Bulb**

---

**32900 Heavy Duty Circuit Tester / Jumper**

A 2-in-1 Tester that Tests Circuits up to 12 Volts and Works as a Jumper Wire for Power or Ground.

Heavy-duty circuit tester for checking low voltage up to 12 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.

- **32900 Heavy Duty Circuit Tester / Jumper.** Skin-packed. Shipping wt. 7 oz.
- **28440 Replacement Bulb**

---

**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.

- **28640 The Ultimate Circuit Tester Kit.** Clam Shell. Shipping wt. 10 oz.
- **28760 Replacement Bulb**
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.

*24550 Computer Safe Circuit Tester, Skin-packed. Shipping wt. 6 oz.*
*24560 Replacement Bulb*

26250 **Low Circuit Tester**

Quick check both AC and DC current up to 12 volts with power on. Helps locate shorts or breaks in wiring. Complete with insulated grounding clip.

*26250 Low Circuit Tester, Skin-packed. Shipping wt. 3 oz.*
*26270 Replacement Bulb*

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.

*29500 High-Low Circuit Tester, Skin-packed. Shipping wt. 3 oz.*
*26970 High End Bulb 26270 Low End Bulb*

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. Uses 1 AA battery not included.

*26200 Continuity Tester, Skin-packed. Shipping wt. 3 oz.*
*26210 Replacement Bulb*

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 12 volts. Alligator clip grounds tester.

*25600 Circuit Tester, Skin-packed. Shipping wt. 3 oz.*
*28440 Replacement Bulb*
FEELER GAUGES

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.

Shipping wt. 1 oz.

67800 67900 SPARK PLUG GAPPERS
For Standard and Electronic Ignitions.
67800 for standard ignition. 67900 for electronic ignition.

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.

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.

67950 STANDARD FEELER GAUGE
15 Steel Blades. One 2" Steel Rule.
Precision blades ensure accurate measurements. Blades are approximately 1/2" wide by 3-1/2" long.

Blade Sizes
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**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.

68050 Valve Tappet Feeler Gauge. Skin-packed. Shipping wt. 3 oz.

**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.

68200 Brass Feeler Gauge. Skin-packed. Shipping wt. 1 oz.

**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.

67850 Spark Plug Gapper & Feeler Gauge. Skin-packed. Shipping wt. 4 oz.

**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.

68150 Go-No-Go Feeler Gauge. Skin-packed. Shipping wt. 4 oz.
**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.

40200 3/8" Magnetic Socket Holder, Red, Hang Card. Shipping wt. 2 lbs. 3 oz.
40210 3/8" Magnetic Socket Holder, Green, Hang Card. Shipping wt. 2 lbs. 3 oz.

**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.

40120 1/4" Magnetic Socket Holder, Red, Hang Card. Shipping wt. 1 lb. 3 oz.
40130 1/4" Magnetic Socket Holder, Green, Hang Card. Shipping wt. 1 lb. 3 oz.

**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.

40900 1/2" Magnetic Socket Holder, Red, Hang Card. Shipping wt. 2 lbs. 9 oz.
40990 1/2" Magnetic Socket Holder, Green, Hang Card. Shipping wt. 2 lbs. 9 oz.

**21300 21400 MAGNETIC TOOL HOLDERS**
Powerful magnet holds even heavy hand tools. Ideal for both home and shop. Mounting screws included.

21300 13" Magnetic Tool Holder, Skin-packed. Shipping wt. 2 lbs. 4 oz.
21400 24" Magnetic Tool Holder, Skin-packed. Shipping wt. 4 lbs. 4 oz.

**20130 MAGNETIC GLOVE DISPENSER**
Magnetic glove dispenser conveniently attaches to your toolbox 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.

20130 Magnetic Glove Dispenser, Boxed. Shipping weight 1 lb. 10 oz.
Available in 6 pack boxes only for product protection.
**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” to 16-1/4”.

- 31000 Magnetic Pick-Up Tool. Skin-packed. Shipping wt. 7 oz.
- 31250 Magnetic Pick-Up Tool. Skin-packed. Shipping wt. 4 oz.
- 66500 Telescoping Magnetic Pocket Pick-Up. Skin-packed. Shipping wt. 2 oz.

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**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.

- 31140 23” Flexible Retrieving Tool. Hang Card. Shipping wt. 3 oz.

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**32050 Telescoping Mirror**

Enables You To See Around Corners.

2-1/4” diameter mirror swivels to any position. Telescopes from 6-5/8” to 36-3/8”. Textured handle provides sure grip.

- 32050 Telescoping Mirror. Skin-packed. Shipping wt. 5 oz.

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**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 (lock not included). Durable powder-coated finish.


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**50350 Side Winder Air Hose Reel**

Coil & Uncoil Your Air Hose Neatly & Quickly.

The Side Winder Air Hose Reel provides a large 10” diameter reel to prevent tight coils in your air hose. Two built-in tool hangers keeps air chuck, blow gun or other air tools handy. The 1/4” NPT brass swivel keeps air flowing freely & handles up to 250 P.S.I.. A coil spring brake keeps reel from unrolling, yet allows easy dispensing of hose. Versatile installation — can be fastened in any direction — on or under a bench, on a wall, from the ceiling, on a compressor or on a service truck. The all steel construction with durable powder baked paint finish is made to last. Supplies 28 C.F.M. at 90 P.S.I. Reel holds 150 feet of 5/8” O.D. hose or 100 feet of 3/4” O.D. hose. Dimensions: Diameter 17-3/4”, Width 11”, Height 19”.

- 50350 Air Hose Reel. Display Box. Shipping wt. 9 lbs. 3 oz.
- 50310 Swivel Joint
19852 **Truck & Trailer Wheel Pan**

Catches Oil from Wheel Hubs After Removing Cap.


19852 Truck & Trailer Wheel Pan, 8 per Master Pack. Shipping wt. 5 lbs. 12 oz.

---

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.

49000 Truck Spring Cage Bolt Socket. Skin-packed. Shipping wt. 12 oz.

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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.

28890 Truck Anchor Pin Bushing Driver. Skin-packed. Shipping wt. 1 lb. 2 oz.
28900 Driver
28910 Remover Cone
28920 Installer Cone

---

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".

21520 Truck Pedal Depressor. Skin-packed. Shipping wt. 2 lbs. 4 oz.
45980 Replacement Rubber Tip

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41270 **Input Shaft Alignment Tool**


Tool is inserted through the inspection plate and onto the input shaft between the clutch brake and clutch forks. Tabs on spring-loaded tool fit securely between splines to avoid damaging shaft. Spring action adjusts to fit spline snugly. Align transmission by turning the shaft to line up with the clutch brake. Allows job to be done by a single technician.

41270 Input Shaft Alignment Tool. Skin-packed. Shipping wt. 7 oz.
**50190 GASKET SEPARATOR**

For Use on Any Application with a Gasket Seal Such as Oil Pans, Transmission Pans and Differential Covers.

Drive tool between gasket and pan with a hammer. Hardened carbon steel blade may be resharpened or replaced if damaged. Blade is not warranted other than when new.

50190 Gasket Separator. Skin-packed. Shipping wt. 12 oz.
50200 Replacement Blade

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**50200 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.

50200 Razor Blade Scraper. Skin-packed. Shipping wt. 7 oz.
51320 Replacement Blades. 5 piece set stainless steel blades.
52080 Replacement Blades. 5 piece set plastic blades.

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**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".

52400 Fold-Up Scraper. Skin-packed. Shipping weight 4 oz.

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**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.


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**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.

51000 Heavy Duty Scraper. Skin-packed. Shipping wt. 7 oz.

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**51350 PUTTY KNIFE**

1-1/4" Stiff, 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.

51350 1-1/4" Putty Knife. Skin-packed. Shipping wt. 7 oz.

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**50190 GASKET SEPARATOR**

For Use on Any Application with a Gasket Seal Such as Oil Pans, Transmission Pans and Differential Covers.

Drive tool between gasket and pan with a hammer. Hardened carbon steel blade may be resharpened or replaced if damaged. Blade is not warranted other than when new.

50190 Gasket Separator. Skin-packed. Shipping wt. 12 oz.
50200 Replacement Blade
50220 Button Head Cap Screw
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. Full instructions are included.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>31310</td>
<td>Double Flaring Tool Set, Clam Shell. Shipping wt. 2 lbs. 1 oz.</td>
</tr>
<tr>
<td>31130</td>
<td>Long Bar</td>
</tr>
<tr>
<td>31370</td>
<td>3/16&quot; Adapter</td>
</tr>
<tr>
<td>31380</td>
<td>1/4&quot; Adapter</td>
</tr>
<tr>
<td>31390</td>
<td>5/16&quot; Adapter</td>
</tr>
<tr>
<td>31410</td>
<td>1/2&quot; Adapter</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>56150</td>
<td>Combination Flaring Tool, Molded Case. Shipping wt. 3 lbs. 8 oz.</td>
</tr>
<tr>
<td>31180</td>
<td>3/8&quot; Adapter</td>
</tr>
<tr>
<td>31370</td>
<td>3/16&quot; Adapter</td>
</tr>
<tr>
<td>31380</td>
<td>1/4&quot; Adapter</td>
</tr>
<tr>
<td>31390</td>
<td>5/16&quot; Adapter</td>
</tr>
<tr>
<td>31410</td>
<td>1/2&quot; Adapter</td>
</tr>
<tr>
<td>56220</td>
<td>6mm Adapter</td>
</tr>
<tr>
<td>56240</td>
<td>10mm Adapter</td>
</tr>
<tr>
<td>56270</td>
<td>4.75mm ISO Adapter</td>
</tr>
<tr>
<td>56300</td>
<td>6mm ISO Adapter</td>
</tr>
<tr>
<td>56330</td>
<td>8mm ISO Adapter</td>
</tr>
<tr>
<td>56360</td>
<td>10mm ISO Adapter</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>44000</td>
<td>Tubing Bender, Skin-packed. Shipping wt. 15 oz.</td>
</tr>
</tbody>
</table>

44070 1/4" Tubing Bender Pliers
44150 3/16" Tubing Bender Pliers
Bends Brake Lines Without Kinking or Flattening, Especially in Tight Spots.
Bends all types of 3/16" and 1/4" 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 and unique head design on 44070 keeps handles in line with the tubing.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>44070</td>
<td>1/4&quot; Tubing Bender Pliers, Skin-packed. Shipping wt. 10 oz.</td>
</tr>
<tr>
<td>44150</td>
<td>3/16&quot; Tubing Bender Pliers, Skin-packed. Shipping wt. 9 oz.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>50000</td>
<td>Mini-Cutter, Skin-packed. Shipping wt. 2 oz. NSN 5110-00-965-0878</td>
</tr>
<tr>
<td>50050</td>
<td>Replacement Cutter</td>
</tr>
</tbody>
</table>
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.

| 17100 Flat Band Hose Clamp Pliers, Skin-packed. Shipping wt. 1 lb. 1 oz. |
| 17120 Hollow Tip |
| 17220 Slotted Tip |

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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".

Tool 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. Can also be used on round wire clamps found on Detroit Diesel applications.

| 44480 Hose Clamp Vise, Skin-packed. Shipping wt. 5 oz. |
| 44500 Hose Clamp Vise, Skin-packed. Shipping wt. 5 oz. |

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80380 **Hose Remover Set, 5 PC.**

Set of Five Hose Removers with Many Uses.

Contains long and short, standard and offset hooks. Can be used to remove hoses, moldings, clips, clamps, seals, o-rings, cotter pins, gaskets, etc. Long pullers are 13" long. Handles are dual material for comfort and grip. Rods are heat-treated for strength and plated for durability. All hose removers are available individually skin-packed.

| 80200 Hose Remover Set, Skin-packed. Shipping wt. 1 lb. 4 oz. |
| 80210 Short Hose Remover |
| 80220 Long Hose Remover |
| 80230 Short Offset Remover |
| 80240 Long Offset Remover |
| 80290 Short Double Offset Remover |

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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.

| 11420 Hose Cutter, Skin-packed. Shipping wt. 11 oz. |
| 11450 Replacement Blade |
**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.

23000 Hose Pincher. Skin-packed. Shipping wt. 6 oz.

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**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.

22850 Hose Pinchers. Skin-packed. Shipping wt. 5 oz. (2 per set)

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**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.

47900 Hose Remover Pliers. Skin-packed. Shipping wt. 7 oz.

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**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.


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**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.

**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.

45900 Hood Prop. Skin-packed. Shipping wt. 2 lbs. 3 oz.

---

**46170 Hood Prop with Support**
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 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.

46170 Hood Prop. Skin-packed. Shipping wt. 2 lbs. 4 oz.

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**44870 Universal Lift Support Clamp**
Holds Weak Gas Charged Lift Supports Open.
Tool holds gas charged lift supports found on hoods, tailgates, 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.

44870 Universal Lift Support Clamp. Skin-packed. Shipping wt. 4 oz.

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**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. 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.

59800 Serpentine Belt Tool. Skin-packed. Shipping wt. 2 lbs. 4 oz.

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**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.

59000 Ratcheting Serpentine Belt Tool. Skin-packed. Shipping wt. 2 lbs. 10 oz.
**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. Convenient vinyl holder. All sockets are available individually.

**70500 Tap Socket Set.** Skin-packed. Shipping wt. 15 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fits In.</th>
<th>Fits Metric</th>
<th>Shank Dia.</th>
<th>Sq. Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>70520</td>
<td>#1,2,3,4,6,8</td>
<td>1.6, 1.8, 2, 2.2, 2.5, 3, 3.15, 3.5mm</td>
<td>.141</td>
<td>.110</td>
</tr>
<tr>
<td>70540</td>
<td>#8</td>
<td>4mm</td>
<td>.168</td>
<td>.131</td>
</tr>
<tr>
<td>70560</td>
<td>#10</td>
<td>4.5, 5mm</td>
<td>.194</td>
<td>.152</td>
</tr>
<tr>
<td>70600</td>
<td>#5</td>
<td>5/16&quot;, 7/16&quot;</td>
<td>.233</td>
<td>.242</td>
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<tr>
<td>70620</td>
<td>#6</td>
<td>10mm</td>
<td>.381</td>
<td>.286</td>
</tr>
<tr>
<td>70640</td>
<td>#7</td>
<td>1/2&quot;</td>
<td>.367</td>
<td>.275</td>
</tr>
<tr>
<td>70660</td>
<td>#8</td>
<td>1/8&quot; NPT</td>
<td>.437</td>
<td>.328</td>
</tr>
</tbody>
</table>

**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". Convenient vinyl holder. All sockets are available individually.

**70940 Tap Socket Set.** Skin-packed. Shipping wt. 1 lb. 4 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fits In.</th>
<th>Fits Metric</th>
<th>Shank Dia.</th>
<th>Sq. Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>70860</td>
<td>5/8&quot;</td>
<td>16mm</td>
<td>.480</td>
<td>.360</td>
</tr>
<tr>
<td>70880</td>
<td>11/16&quot;</td>
<td>18mm</td>
<td>.542</td>
<td>.406</td>
</tr>
<tr>
<td>70900</td>
<td>3/4&quot;</td>
<td>12,12.5mm</td>
<td>.590</td>
<td>.442</td>
</tr>
</tbody>
</table>

**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 montings found on import vehicles.

**11770 Radio Remover.** Skin-packed. Shipping wt. 1 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fits In.</th>
<th>Fits Metric</th>
<th>Shank Dia.</th>
<th>Sq. Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>70880</td>
<td>5/8&quot;</td>
<td>16mm</td>
<td>.480</td>
<td>.360</td>
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<tr>
<td>70900</td>
<td>3/4&quot;</td>
<td>12,12.5mm</td>
<td>.590</td>
<td>.442</td>
</tr>
</tbody>
</table>

**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.

**11750 Clutch Coupling Remover for Ford.** Skin-packed. Shipping wt. 2 oz.

**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.

**48700 Throttle Pedal Depressor.** Skin-packed. Shipping wt. 1 lb. 7 oz.

**48770 Replacement Rubber Tip**
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.
31840 “O” Ring and Seal Pick. Skin-packed. Shipping wt. 2 oz.

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.
31800 Scribe. Skin-packed. Shipping wt. 2 oz.

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”.
30280 Automatic Center Punch. Skin-packed. Shipping wt. 2 oz.
30290 Replacement Tip

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”.
48000 Aluminum Vise Jaw Pads. Skin-packed. Shipping wt. 7 oz.

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”.
48100 Rubber Faced Vise Jaw Pads. Skin-packed. Shipping wt. 7 oz.

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.
12050 Small Chuck Key. Skin-packed. Shipping wt. 4 oz.
12060 Large Chuck Key. Skin-packed. Shipping wt. 8 oz.
**70340 Rechargeable LED Flashlight with Flexible Magnetic Holder**

Flexible Magnetic Holder Provides a Third Hand. Bright, Rechargeable Flashlight Will Run All Day.

Powerful 3 Watt LED flashlight provides 120 Lumens and will run continuously for 6 hours. Flashlight recharges in 5 hours with the AC Charger. The flashlight is water resistant with o-ring seals and will withstand a drop of at least 1m. Flashlight is 5.63" in length and 1.385" at the maximum diameter (barrel is 1"). The flexible, magnetic holder allows the light to be conveniently located. It has a powerful 2" diameter, 50 lb. magnet built-in and is 7-3/4" in overall length. The flexible joints bend up to nearly 90 degrees in any direction. This holder can be purchased separately and will hold a variety of flashlight diameters.

70340 Rechargeable LED Flashlight with Flexible Magnetic Holder.  
Clam shell package. Shipping wt. 1 lb.
70440 Flexible Holder with Magnetic Base
70420 Li-Ion Battery 70430 AC Charger

**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.

35900 LED Flexible Flashlight. Skin-packed. Shipping wt. 2 oz.
35910 Replacement Bulb Assembly

**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. Uses 2 AA batteries, not included.

32250 Flexible Flashlight. Skin-packed. Shipping wt. 3 oz.
32310 Wire and Bulb Assembly

**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.

48890 1" Bar. Shipping wt. 2 lbs. 8 oz. 48900 3" Bar. Shipping wt. 3 lbs.
48910 6" Bar. Shipping wt. 3 lbs. 4 oz. 48920 9" Bar. Shipping wt. 3 lbs. 8 oz.
48930 12" Bar. Shipping wt. 3 lbs. 14 oz.
47540 Bag of 30 Bar Hooks. Shipping wt. 1 lb. 8 oz.

**48160 Stocking Tags**

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. Available in convenient pads of 100 tags with pre-drilled holes to fit pegboard hooks. Stocking tags are free.

48160 Stocking Tags. 100 per pad.
**47120 Rotary Waterfall Display**

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.

- **47120 Rotary Waterfall Display with Tool Assortment.** Shipping wt. 231 lbs.
- **47130 Rotary Waterfall Display Only.** Shipping wt. 119 lbs.

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**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.

- **47600 Gondola Display and Tool Assortment.** Shipping wt. 178 lbs.
- **47620 Gondola Display Only.** Shipping wt. 68 lbs.

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**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.

- **47500 Gondola Display and Tool Assortment.** Shipping wt. 79 lbs.
- **47520 Gondola Display Only.** Shipping wt. 34 lbs.
**CREEPERS**

**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".

- **92102 Red Plastic Creeper**, Boxed. Shipping wt. 10 lbs. 8 oz.
- **93102 Yellow Plastic Creeper**, Boxed. Shipping wt. 10 lbs. 8 oz.
- **94102 Blue Plastic Creeper**, Boxed. Shipping wt. 10 lbs. 8 oz.
- **92132 2" Pop-in Wheel for Plastic Creeper**
- **96412 Headrest**

**92032 93032 94032 Large Wheel Creepers**

*Bigger Wheels for a Better Ride.*

Our popular plastic creepers are now available with larger, 4" pop-in urethane wheels. The larger wheels provide a much smoother ride on cracked or uneven floor surfaces, over floor debris and under heavy loads. Also rolls better on regular floor surfaces. The creeper body is the same as our low profile plastic creeper models 92102, 93102 and 94102.

- **93032 Large Wheel Plastic Creeper, Yellow**, Boxed. Shipping wt. 14 lbs. 8 oz.
- **94032 Large Wheel Plastic Creeper, Blue**, Boxed. Shipping wt. 14 lbs. 8 oz.
- **96572 4" Pop-in Wheel**
- **96412 Headrest**


**NOTE:** You can interchange or retrofit your conventional Lisle plastic creepers, models 92102, 93102 and 94102 with six 96572 4" rollers.

**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.*

- **96302 42" Padded Low Profile Steel Creeper**, Boxed. Shipping wt. 17 lbs. 8 oz.
- **96132 2" Wheel**
- **96322 Replacement Padded Board and Headrest**

**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.

- **95002 Fold Up Creeper**, Boxed. Shipping wt. 2 lbs. 15 oz.
### 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>96102</td>
<td>Low Profile Steel Creeper</td>
<td>12 lbs</td>
</tr>
<tr>
<td>96132</td>
<td>2&quot; Wheel</td>
<td>4 oz.</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>96202</td>
<td>Low Profile Steel Creeper</td>
<td>14 lbs</td>
</tr>
<tr>
<td>96132</td>
<td>2&quot; Wheel</td>
<td>4 oz.</td>
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</tbody>
</table>

### 93402 Creeper 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>93402</td>
<td>Creeper Seat/Step</td>
<td>12 lbs</td>
</tr>
<tr>
<td>93392</td>
<td>Pop-In Rubber Feet (4 Pack)</td>
<td>6 oz.</td>
</tr>
<tr>
<td>93422</td>
<td>Pop-In Roller (4 Pack)</td>
<td>5 oz.</td>
</tr>
</tbody>
</table>

### 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 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 96572 Larger 4" wheel for plastic creepers works especially well on cracked or uneven floor surfaces. The 96422 2" oil resistant plastic wheel was standard on all plastic creepers before late 1998. The 96422 wheel includes a cap nut 96552.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>92132</td>
<td>2&quot; Pop-in Wheel for Plastic Creepers</td>
<td>6 oz.</td>
</tr>
<tr>
<td>96132</td>
<td>Wheel for Steel Creepers</td>
<td>6 oz.</td>
</tr>
<tr>
<td>96142</td>
<td>Cap Nut for 96132, Shipping wt. 1 oz</td>
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</tr>
<tr>
<td>96422</td>
<td>Wheel for Plastic Creepers</td>
<td>6 oz.</td>
</tr>
<tr>
<td>96552</td>
<td>Cap Nut for 96422, Shipping wt. 1 oz</td>
<td></td>
</tr>
<tr>
<td>96572</td>
<td>Large Creeper Wheels, Shipping wt. 1 lb</td>
<td></td>
</tr>
<tr>
<td>97112</td>
<td>Wheel with Bracket for Wood Creepers</td>
<td>6 oz.</td>
</tr>
<tr>
<td>99702</td>
<td>3&quot; Steel Roller for Wooden Creepers</td>
<td>9 oz.</td>
</tr>
</tbody>
</table>
1102  **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.

| 11102 8 Gallon Oil Lift Drain, Boxed. Shipping wt. 16 lbs. | 11052 Spout Cap | 11302 Funnel |
| 11402 Top Tube, Plated | 11502 Bottom Tube, Black |
| 11512 Tube Lock Ring | 11602 Wheel Assembly |
| 11702 Tube Clamp |

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.

| 17432 18 Gallon Oil Lift Drain, Boxed. Shipping wt. 21 lbs. | 11302 Funnel | 11402 Top Tube, Plated |
| 11502 Bottom Tube, Black | 11512 Tube Lock Ring |
| 11512 Tube Lock Ring | 17382 Wheel |
| 17402 Cap |

17692 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".

| 17892 Transmission Drain Funnel. 12 per Master Pack. Shipping wt. 17 lbs. 4 oz. | 17902 Super Transmission Drain Funnel. 6 per Master Pack. Wt. 28 lbs. 8 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 15" No Splatter Pad. 8 per Master Pack. Shipping wt. 8 oz. | 38780 22" No Splatter Pad. 6 per Master Pack. Shipping wt. 1 lb. 6 oz. |
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.
19802 Threaded Oil/Transmission Funnel. Shipping wt. 4 oz.

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.
17912 55 Gallon Drum Drain Funnel. 8 per Master Pack. Shipping wt. 24 lbs. 12 oz.

19722 Catch-All Drip Pan
Ideal for use on show room 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".
19722 Catch-All Drip Pan. 12 per Master Pack. Shipping wt. 27 lbs.

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.
19732 6 Quart Oil Dispenser, White Spout. 6 per Master Pack. Shipping wt. 6 lbs. 14 oz.
19752 6 Quart Oil Dispenser, Red Spout. 6 per Master Pack. Shipping wt. 6 lbs. 14 oz.
19742 White Spout & Threaded Collar 19762 Red Spout & Threaded Collar

19702 8 Qt. Oil Dispenser with Lid
An Even Larger Size for Trucks, SUVs and Other Engines with Greater Oil Capacity.
A larger version of the 6 qt. Oil Dispenser with flexible pouring spout. Many large SUVs and trucks now require more than 6 quarts of 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. Lid may not fit older 19712 Dispensers.
19702 8 qt. Oil Dispenser, 4 per Master Pack. Shipping wt. 7 lbs. 8 oz.
19742 White Spout & Threaded Collar 19682 Lid 19692 Spout Cap
19122  TRUCK DRAIN ON WHEELS WITH COVER

Now Includes a Snap-In Cover.

Use this heavy-duty drain to drain large capacity crank cases. Holds 60 quarts. Equipped with 4 rollers and a handle for transport and positioning under trucks. Cover and curved side design help keep oil from spilling during movement. Convenient handles and pour spout facilitate oil evacuation. Rolls under most cab over axles so oil can be changed without jacks or jack stands. Overall height 10", width 24-1/2", length 43". Cover may fit loosely and not snap into place on older 19122 Truck Drain models.

19122 Truck Drain on Wheels with Cover. Shipping wt. 26 lbs. 8 oz.
19122 Truck Drain Cover

17942 17952 4.5 GAL. PAN

Now with Built-in Ribs for Draining Filters in the Pan.

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.

17942 4.5 Gallon Oil Drain Pan, Black. 8 per Master Pack. Ship wt. 21 lbs.
17952 4.5 Gallon Oil Drain Pan, Green. 8 per Master Pack. Ship wt. 21 lbs.

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".

17922 Multi-Drain Tub. 6 per Master Pack. Shipping wt. 27 lbs. 12 oz.

17932 6 QUART DRAIN PAN

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

17932 6 Quart Drain Pan. 50 per Master Pack. Shipping wt. 29 lbs. 6 oz.
**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.

**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. Inside dimensions 31" x 12" x 12".

**19852 TRUCK & TRAILER WHEEL PAN**
Catches Oil from Wheel Hubs After Removing Cap.

**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.

**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.
14100 Value 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 lightweight aluminum body is equipped with a pocket clip.

14100 Value Core Tool. Skin-packed. Shipping weight 1 oz.
14110 Core Driver

18810 Value 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.

18810 Valve Core Torque Tool. Skin-packed. 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.

19860 Tire Deflator Set for TPMS Valve Stems. Skin-packed. Shipping wt. 5 oz.

68130 Wheel Weight Tool
Removes, Trims and Installs Clip-on Wheel Weights.
Tire lever and offset flat tip for removing wheel covers. Use hammer head to pound on wheel weights. Pliers action grabs weights for removal. Also cuts weights. Sturdy vinyl grips provide a good grip.

68130 Wheel Weight Tool. Skin-packed. Shipping wt. 1 lb. 3 oz.
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, or have identified a problem, follow these two simple steps:

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

INDIVIDUALS JUST LIKE YOU HAVE DEVELOPED THE FOLLOWING LISLE TOOLS:

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.

56810 Relay Test Jumper Kit
Set of four relay test jumpers make testing relays or live circuits quick and easy. Fits many popular size relays on domestic and import vehicles. Simply remove relay to be tested, insert correct jumper and insert relay into jumper.

57020 Small Swivel-Gripper™
“No-Slip” filter wrench. Tough, Stainless steel band with permanently bonded textured coating for superior gripping power...Won’t slip.

65600 Broken Spark Plug Remover for Ford Triton 3 Value Engines
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.

A PROVEN SUCCESS FORMULA!
Lisle Corporation has been in business since 1903 with sales distribution throughout the world. Through the years, we have been a leader in developing and marketing new tools for the automotive service industry. Most of these new tools were developed by our own engineering department...but many successful tools were the ideas of individual mechanics who recognized a problem. Lisle Corporation has been working with submitters of new tool ideas on an award or royalty basis for more than 40 years.

Jason Jantzer
Phoenix, Oregon
Mr. Jantzer’s tool ideas (our 43300 Pneumatic Fan Clutch Wrench Set, 36880 Dual Overhead Cam Lock Tool and 18980 Pneumatic U-Joint Driver) are submissions that have been added to the Lisle tool line.