10000 10400 10500 Brake Hones
10000 3-Stone, Range 27/32" to 2".
10400 3-Stone Disc Brake Hone, Range 1-1/2" to 3-1/8".
10500 2-Stone Hone, Range 11/16" to 2-1/2".
Compressed 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. 220 grit stones are 1-1/8" long on 10000 & 10500; 400 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.

24300 Speedy Brake Pad Spreader
25750 Dual Piston Brake Pad Spreader
29100 Quick Quad Pad Spreader
Compresses Brake Pistons in Seconds.
Compresses 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.
24300 Speedy Brake Pad Spreader. Hang Card. Shipping wt. 1 lb. 11 oz.
25750 Dual Piston Brake Pad Spreader. Hang Card. Shipping wt. 2 lbs. 3 oz.
29100 Quick Quad Pad Spreader. Hang Card. Shipping wt. 2 lbs. 13 oz.

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.
24400 Disc Brake Pad Spreader. Skin-packed. Shipping wt. 11 oz.
29350 Combination Disc Brake Kit
One Tool Helps Make Installing New Pads on Front and Rear Brakes Quick and Easy.

Designed to work on single piston disc brakes that require the piston to be rotated back into the caliper as well as pistons that are pushed. Includes two, double-sided two pin adapters along with a pinless pushing adapter. Magnets and pins on back of pushing adapter allow use of other two pin adapters. Shaft may be rotated both directions depending on the vehicle application. Turn with 9/16" wrench or socket.

29350 Combination Disc Brake Kit. Blow Molded Case. Shipping wt. 2 lb. 3 oz.
29080 1-1/2" Adapter
25110 1-5/8" Adapter
29410 Pinless Adapter

Applications:
Adapter 1A - 1-1/2" (narrow pins) most Hondas, Mazdas, Dodge, Mitsubishi and 1-1/2" GMs
Adapter 1B - 1-1/2" (wide pins) most Fords, Toyotas and some Pontiacs
Adapter 2A - 1-5/8" most Nissans/Datsuns and Subarus
Adapter 2B - 1-5/8" Mazda 3, some Jaguars and some Mini Coopers
Pinless Adapter - Front brakes that do not require the piston to be rotated back into the caliper

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.

25000 Universal Disc Brake Caliper Tool. Molded Case. Shipping wt. 5 lbs.
25080 1-1/2" Adapter
25110 1-5/8" Adapter
25130 1-7/8" Adapter
25170 2-1/2" Adapter
25110 - SIDE (2B) FITS MAZDA 3, SOME MINI COOPER AND SOME JAGUAR APPLICATIONS

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.

28600 Disc Brake Piston Tool. Skin-packed. Shipping wt. 4 oz.

6 DIFFERENT PISTON CONFIGURATIONS

U.S. Pat No. 6,029,550
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.
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

Applications
Smaller Spring
1991 to current GM H Body
Bonneville, LaSabre
Delta, 88
1992 to current GM C & H Body
Buick Electra
Olds 88
Cadillac Fleetwood
Cadillac DeVille
Chevrolet Lumina APV
Pontiac Trans Sport
Olds Silhouette

Larger Spring
2005 to current Chevrolet Silverado
2004 to current Chevrolet Colorado
Includes 2007 Models

2007 SILVERADO HUB

49100 T-Handle Single Spring Brake Tool
Quickly and Easily Releases Tension on Large and Small Single Spring Brakes on GM Vehicles.
The tool design uses the hook to grab onto the spring while the tool tip is used as a fulcrum to pry the spring free. The tool can also be used to re-install the spring.

49100 T-Handle Single Spring Brake Tool. Skin-packed. Shipping wt. 16 oz.
49140 Replacement Hook and Bolts

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.
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.

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

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.
19200 Brake Bleeder. Skin-packed. Shipping wt. 5 oz.
73090 No. 1 Adapter
73100 No. 2 Adapter
73110 No. 3 Adapter
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.

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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.

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10900 10950 10990 11000 **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.
10990 for 7mm or 9mm bleeder screws.
11000 for 8mm or 10mm 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.
10990 7mm - 9mm Brake Bleeder Wrench. Skin-packed. Shipping wt. 4 oz.
11000 8mm - 10mm Brake Bleeder Wrench. Skin-packed. Shipping wt. 4 oz.

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81850 **Combination Brake Lining Thickness Gauge Set**

*The 9 Piece Manual Brake Gauge Set Allows Brake Pad Wear to be Accurately and Consistently Measured without Guessing.*
Designed to check both straight on or at a 90° angle to the rotor with offset tips so the gauges can be used without removing the wheel or caliper assembly on many applications. Brake lining gauges identify thickness levels for brake lining inspection. Made from durable, flexible acetal. The gauges are color coded to match SAE or Metric recommendations for brake pad replacement. Green (Good): 12mm (.4724”), 10mm (.3937”), 8mm (.3150”). Yellow (Marginal): 6mm (.2362”), 5mm (.1969”), 4mm (.1575”). Red (Replace): 3mm (.1181”), 2mm (.0787”).

81850 Combination Brake Lining Thickness Gauge Set. Hang Card. Shipping wt. 2 oz.
**44210 Universal Emergency Brake Tool**

Allows Technicians to Compress the Emergency Brake Cable Spring with One Hand.

Keeps one hand free for brake shoe arm or lever replacement.

*44210 Universal Emergency Brake Tool. Skin packed. Shipping wt. 6 oz.*

**44220 Emergency Brake Cable Release Tool**

Quickly and Easily Pushes the Emergency Brake Cable Out of the Cable Connector for Rear Brake Service or Replacement.

The tool can be used on many domestic and import vehicles with an emergency brake cable at the rear wheels. Works on drum brake applications as well as vehicles with rear disc brakes.

*44220 Emergency Brake Cable Release Tool. Skin packed. Shipping wt. 7 oz.*

**71020 Master Brake Tool Kit**

A Handy Set of 12 Brake Tools for Use When Servicing Many Drum Brake Applications.

Includes tools for removing and installing brake springs along with parking brake and star wheel adjusting tools. Color coded brake lining gauges for accurate measurement of brake shoe lining. Packaged in a Lisle branded tool bag.

*71020 Master Brake Tool Kit. Laminated Card. Shipping wt. 5 lbs. 1 oz.*

11260 Brake Spring Pliers
13410 Brake Caliper Brush
40750 Parking Brake Cable Remover
44210 Universal Emergency Brake Tool
44220 Emergency Brake Cable Release Tool
44800 Heavy-Duty Brake Spring Tool
46750 Brake Spring Tool
47400 Brake Spring Washer Tool
48400 Import Car Brake Clip Tool
49100 T-Handle Single Spring Brake Tool
50700 Brake Adjustment Tool
71040 Tool Bag
81850 Combination Brake Lining Thickness Gauge Set
**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.

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**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.

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**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.
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.

41500 Pickle Fork Kit. Clam Shell Package. Shipping wt. 3 lbs. 15 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>41510</td>
<td>Handle</td>
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<tr>
<td>41520</td>
<td>Pneumatic Driver</td>
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<tr>
<td>41530</td>
<td>1-1/8&quot; Fork</td>
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<tr>
<td>41540</td>
<td>1/16&quot; Fork</td>
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<tr>
<td>41550</td>
<td>11/16&quot; Fork</td>
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</tbody>
</table>

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.

41400 Stepped Pickle Fork Kit. Clam Shell Package. Shipping wt. 3 lbs. 13 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>41410</td>
<td>1-1/8&quot; Stepped Fork</td>
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<tr>
<td>41420</td>
<td>15/16&quot; Stepped Fork</td>
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<td>41430</td>
<td>11/16&quot; Stepped Fork</td>
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<tr>
<td>41510</td>
<td>Handle</td>
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<tr>
<td>41520</td>
<td>Pneumatic Driver</td>
</tr>
</tbody>
</table>

41440 STEPPED PICKLE FORK KIT, 5 PC.
Step Design on the Forks Keeps the Tool from Bouncing Back when Separating Ball Joints, Steering Dampeners, Tie Rods, Pitman Arms and Other Applications.
Includes five forks: 11/16", 15/16", 1-1/8", 1-7/16" and 1-5/8". The forks are threaded to interchange with either the handle for hammering or the pneumatic driver. The forks are heavy-duty, heat-treated forgings and the handles are heat-treated alloy steel. The fork steps can be sharpened if needed.

41440 Step Pickle Fork Kit, 5pc. Molded Case. Shipping wt. 6 lbs. 8 oz.

<table>
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<tr>
<th>Part No.</th>
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<tr>
<td>41370</td>
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<td>41380</td>
<td>1-7/16&quot; Stepped Fork</td>
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<tr>
<td>41410</td>
<td>1-1/8&quot; Stepped Fork</td>
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<tr>
<td>41430</td>
<td>15/16&quot; Stepped Fork</td>
</tr>
<tr>
<td>41510</td>
<td>Handle</td>
</tr>
<tr>
<td>41520</td>
<td>Pneumatic Driver</td>
</tr>
</tbody>
</table>

41220 THICK PICKLE FORK KIT, 5 PC.
The Thicker Fork Design Provides Extra Lift.
The set includes five forks: 11/16", 15/16", 1-1/8", 1-7/16" and 1-5/8". The forks are threaded to interchange with either the handle for hammering or the pneumatic driver (.401 Shank) and a 6-1/4" extension that works with either handle to provide extra reach.

41220 Thick Pickle Fork Kit. Molded Case. Shipping wt. 8 lbs.

<table>
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<tr>
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<tr>
<td>41510</td>
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<tr>
<td>41520</td>
<td>Pneumatic Driver</td>
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<tr>
<td>41540</td>
<td>1/16&quot; Fork</td>
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<tr>
<td>41550</td>
<td>11/16&quot; Fork</td>
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</table>

www.lislecorp.com
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.

18520 Stepped Tie Rod Separator. Skin-packed. Shipping wt. 1 lb. 11 oz.
18530 Stepped Ball Joint Separator. Skin-packed. Shipping wt. 1 lb. 12 oz.

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 Heavy-Duty Pitman Arm Puller. Skin Packed. Shipping wt. 3 lbs.
41910 Puller Screw

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.
**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>
<th>Notes</th>
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<td>46800</td>
<td>Inner Tie Rod Tool</td>
<td>Molded Case. Shipping wt. 5 lbs.</td>
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<tr>
<td>45777</td>
<td>Socket</td>
<td>45810 Retainer</td>
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<tr>
<td>45670</td>
<td>33.6mm Crowfoot</td>
<td>45700 1-3/16” Crowfoot</td>
</tr>
<tr>
<td>45820</td>
<td>1-7/16” Crowfoot</td>
<td>45830 1-5/16” Crowfoot</td>
</tr>
<tr>
<td>45840</td>
<td>1-1/4” Crowfoot</td>
<td>46160 1-1/2” Crowfoot</td>
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<td>46270</td>
<td>29mm Crowfoot</td>
<td>46280 32.5mm Crowfoot</td>
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<tr>
<td>46300</td>
<td>1-3/8” Crowfoot</td>
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</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>
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<td>Inner Tie Rod Tool</td>
<td>Clam Shell Package. Shipping wt. 3 lbs. 6 oz.</td>
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<tr>
<td>45777</td>
<td>Socket</td>
<td>45810 Retainer</td>
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<tr>
<td>45670</td>
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<tr>
<td>45840</td>
<td>1-1/4” Crowfoot</td>
<td>46160 1-1/2” Crowfoot</td>
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**54500 Large Inner Tie Rod Tool**

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

The long socket slips over tie rod end and crows foot engages on socket for easy removal and installation. This tool comes with five crows feet, sizes 1-7/16”, 33.6mm, 38.4mm, 40mm and 42mm, to fit many Toyota, Nissan, Ford, Lincoln, Mercury and Chevrolet truck and SUV applications. Also fits some Cadillac Escalade, Hummer H2, Honda Passport and Jeep Liberty applications.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
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<td>54500</td>
<td>Large Inner Tie Rod Tool</td>
<td>Boxed. Shipping wt. 3 lbs. 4 oz.</td>
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<td>54490</td>
<td>40mm Crowfoot</td>
<td>54510 Socket 54550 Retainer</td>
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<td>54560</td>
<td>33.6mm Crowfoot</td>
<td>54570 1-7/16” Crowfoot</td>
</tr>
<tr>
<td>54580</td>
<td>38.4mm Crowfoot</td>
<td>54590 42mm Crowfoot</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.

**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.

**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.

**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.
**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>
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<td>2.995&quot;</td>
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<tr>
<td>12970</td>
<td>3.180&quot;</td>
</tr>
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</table>

12820 Pneumatic Handle
12730 Handle

*FOR HEAVY-DUTY APPLICATIONS SEE 61900, Pg. 77*

**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>
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<td>2.995&quot;</td>
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<tr>
<td>12970</td>
<td>3.180&quot;</td>
</tr>
</tbody>
</table>

12660 Handle

**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>
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<tbody>
<tr>
<td>59410</td>
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<td>3-3/4&quot;</td>
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<td>59480</td>
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</tbody>
</table>

12820 Pneumatic Handle
59540 Handle

**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.

24800 Seal Driver, Clam Shell Package. Shipping wt. 1 lb. 11 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
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.

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".

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.

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.

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.
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.
39550 FWD Axle Nut Socket (36mm), Hang Tag, Shipping wt. 1 lb. 13 oz.
39700 FWD Axle Nut Socket (32mm), Hang Tag, Shipping wt. 1 lb. 6 oz.
39750 FWD Axle Nut Socket (34mm), Hang Tag, Shipping wt. 1 lb. 10 oz.

39650 39MM 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.

39650 39mm 12pt Axle Nut Socket for Toyota, Hang Tag, Shipping wt. 1 lb. 4 oz.

39510 30MM 12 PT. 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.

39510 30mm 12pt Axle Nut Socket, Hang Tag, Shipping wt. 1 lb. 4 oz.

22090 36MM 12 PT. AXLE NUT SOCKET
Durable Impact-Grade Material Sockets for Removing and Installing Axle Nuts.
Fits some European vehicle applications and uses 3/4” drive.

22090 36mm 12 pt. Axle Nut Socket, Mini Pouch, Shipping wt. 15 oz.

31550 AXLE HUB BRIDGE NUT SOCKET FOR GM
Removes and Installs the Hub Bearing Retaining Nut Found on Some GM GMT900 Platform Full-Size Trucks.
The socket has nine drive pins to fit the new style retaining nut found on 2-wheel and 4-wheel drive Cheyenne, Silverado, Escalade, Sierra and Avalanche trucks with 10.5” or 11.5” ring gear. Made from alloy steel. Use with 1/2” drive.

31550 Axle Bridge Nut Socket GM, Box with color label, Shipping wt. 2 lbs. 8 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.

---

**30600 Offset BoOt ClAMP PlIERS**

Crimps Ear-Type Clamps in Hard-to-Reach Areas.
A special boot clamp crimping pliers that is designed to work in confined spaces. The pliers work from the side (head is turned 90 degrees) unlike traditional tools that work from the end. The unique offset design allows the technician to work on clamps in larger sizes boots. The top plate on the pliers flattens the crimp. These pliers work on most ear-type clamps but not those requiring a torque reading.

30600 Offset Boot Clamp Pliers. Skin-packed. Shipping wt. 12 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.

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**27250 27400 29900 4-WD WHeeL BEaRING LOCK-NUT TOOLS**

27250 for 4-slot applications. 27400 combination tool for both 4-slot and 6-slot applications. 29900 fits 4-slot 2-1/2" lock rings used on common 4-WD trucks. 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. Hang Tag. 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.
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.

### Specifications
- **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**

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).

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

38350 **Exhaust Removal Pliers**

Separates exhaust hanger brackets from rubber supports. The exhaust pliers work on all import and domestic car and truck exhaust systems that use the rubber hanger supports. Simply squeeze the handles to push the bracket from the rubber support.

### Specifications
- **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.

### Specifications
- **31500 Exhaust / Strut Cutoff Tool**: Skin-packed. Shipping wt. 1 lb. 7 oz.
- **31530 Cutter Set**

32000 **Pipe End Shaper**

Rounds pipes in or out. 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).

### Specifications
- **32000 Pipe End Shaper**: Boxed. Shipping wt. 4 lbs. 15 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.

19000 **TAKE-APART RING COMPRESSOR**

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.

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.

33500 **PISTON RING INSTALLER**

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

**33500 Piston Ring Installer.** Skin-packed. Shipping wt. 4 oz.
NSN 5120-00-857-3190

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
19750 **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.

16550 **OVERHEAD VALVE SPRING COMPRESSOR**
Compresses Valve Springs for Keeper
Removal without Removing Cylinder Heads.
Offset jaws grip springs securely and compress the
springs evenly.
16550 Overhead Valve Spring Compressor. Skin packed. Shipping wt. 1 lb.

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.

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.

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.
24000 Ring Groove Cleaner. Skin-packed. Shipping wt. 11 oz.
**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
36380 Handle Assembly
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
36380 Handle Assembly

**34350 WATER SENSOR WRENCH FOR DURAMAX**
Removes & Installs the Water Sensor on 2001 - 2011 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.

34350 Water Sensor Wrench for Duramax. Skin-packed. Shipping wt. 7 oz.

**34900 WATER SENSOR WRENCH, LATE MODEL**
Removes and Installs the Water Sensor Located on the Fuel Filter on 2012 and Newer 6.6L Duramax Diesel Engines. Also works on 2013 and newer 6.7L Cummins. For use when replacing the fuel filter or when servicing the water sensor. The plastic sensor has a new hex design that is easily damaged by tools, like pliers, that do not specifically fit the sensor. Use the 34350 or 34910 for older applications.

34900 Water Sensor Wrench, Late Model. Skin packed. Shipping wt. 6 oz.

**34910 WATER SENSOR WRENCH, AFTERMARKET**
Removes and Installs the Aftermarket Water Sensor Located on the Fuel Filter on 2001 through 2011 6.6L Duramax Diesel Engines. For use when replacing the fuel filter or when servicing the water sensor. The aftermarket plastic sensor has a modified octagon shape that is easily damaged by tools, like pliers, that do not specifically fit the sensor. Use 34350 for standard or OE applications.

34910 Water Sensor Wrench, Aftermarket. Skin packed. Shipping wt. 6 oz.
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, assuring unusual accuracy. Stones cover full range, are easily changed, and available in four grits. Comes complete with 16410, 16420 and 16430 medium grit stone sets in sturdy storage case. Stones for Nikasil cylinders available. See chart.

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.

<table>
<thead>
<tr>
<th>Cylinder Size Range</th>
<th>Stone and Wiper Set Part Numbers</th>
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<tbody>
<tr>
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<td>80 Grit</td>
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<tr>
<td>1.75&quot; - 2.20&quot;</td>
<td>16440</td>
</tr>
<tr>
<td>2.75&quot; - 3.00&quot;</td>
<td>16450</td>
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<tr>
<td>2.35&quot; - 2.75&quot;</td>
<td>16460</td>
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* For Nikasil Cylinders
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.

65600 Broken Spark Plug Remover for Ford, Molded Case. Shipping wt. 1 lb. 13 oz.
58980 Gasket (x4)
65620 Puller Screw
65660 Left Hand Hex Nut
65670 Porcelain Pusher Assembly

65700 Broken Spark Plug Remover Kit for Ford Triton 3 Valve Engines

The Popular Broken Plug Tip Remover Plus a Special Porcelain Puller Tool.

A kit for removing spark plugs that have seized in the engine head. Includes a Porcelain Puller Tool that locks onto the terminal of a broken spark plug to pull the porcelain if only the metal collar of the plug came loose. Also includes a Porcelain Pusher for when the porcelain breaks off in the spark plug tip and a Self-Tapping Puller to remove the seized metal tip. Comes in a blow molded plastic case for storage. Order Lisle 65710 for the Porcelain Puller individually, or 65730 for the Porcelain Puller, Right Hand Hex Nut and Puller Housing.

65700 Broken Plug Rmvr Kit Ford, Molded Case. Shipping wt. 2 lbs. 3 oz.
58980 Gasket (x4)
65620 Puller Screw
65660 Left Hand Hex Nut
65670 Porcelain Pusher Assembly
65710 Porcelain Puller
65720 Right Hand Hex Nut
65730 Porcelain Plr w/Housing

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
65030 11/16" Insert (5 pack)
65060 7/16" Insert (5 pack)
65080 5/16" Insert (5 pack)
65100 Swedger Handle
65020 Long Tap Holder
65040 Swedger
65070 Short Tap Holder
65090 Insert Installer
66160 Set Screw
**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.

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**23800 Flywheel Turner**

Hold or Turn Flywheels and Flexplates on Most Vehicles.

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

---

**21100 21200 Valve Lappers**

For Hand Lapping Valves.

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

---

**19700 Valve Holder**

For Both 14mm & 18mm Spark Plug Threads.

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

---

**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.

---

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

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

21100 Large Valve Lapper, Skin-packed. Shipping wt. 4 oz.

21200 Small Valve Lapper, Skin-packed. Shipping wt. 2 oz.

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

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>22500</td>
<td>Thermostat Gasket Cleaner</td>
<td>Skin-packed. Shipping weight 4 oz.</td>
</tr>
<tr>
<td>22570</td>
<td>Abrasive Pad</td>
<td></td>
</tr>
</tbody>
</table>

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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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>13800</td>
<td>Water Pump Sprocket Holder for GM Ecotec</td>
<td>Skin-packed. Shipping wt. 4 oz.</td>
</tr>
</tbody>
</table>

---

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>14440</td>
<td>Water Pump Wrench for GM Northstar</td>
<td>Hang Tag. Shipping wt. 15 oz.</td>
</tr>
</tbody>
</table>

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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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>13500</td>
<td>41MM Water Pump Wrench for GM 1.6L</td>
<td>Mini-pouched. Shipping wt. 6 oz.</td>
</tr>
</tbody>
</table>

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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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>18980</td>
<td>Pneumatic U-Joint Driver</td>
<td>Skin-packed. Shipping wt. 1 lb. 4 oz.</td>
</tr>
</tbody>
</table>

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**18000 Universal Camshaft Bearing Tool**

Drives Camshaft Bearings Smoothly.

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

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

Range 1.125" to 2.69". Includes: Driving shaft, driving shaft extension, expander unit, five (5) expanding collets, five (5) sleeve sets, two (2) driving collars, centering cone & blow molded case.

Shipping wt. 17 lb. NSN 5120-00-878-8541

<table>
<thead>
<tr>
<th>BEARING SIZE I.D.</th>
<th>EXPANDING COLLET #</th>
<th>USE WASHER</th>
<th>SLEEVE SET #</th>
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<tbody>
<tr>
<td>1.125 TO 1.475</td>
<td>18330</td>
<td>18430</td>
<td>18410</td>
</tr>
<tr>
<td>1.475 TO 1.700</td>
<td>18020</td>
<td>18430</td>
<td>18120</td>
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<tr>
<td>1.700 TO 1.925</td>
<td>18040</td>
<td>18420</td>
<td>18140</td>
</tr>
<tr>
<td>1.925 TO 2.150</td>
<td>18060</td>
<td>18420</td>
<td>18160</td>
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<tr>
<td>2.150 TO 2.375</td>
<td>18080</td>
<td>18420</td>
<td>18180</td>
</tr>
<tr>
<td>2.375 TO 2.690</td>
<td>18100</td>
<td>18420</td>
<td>18200</td>
</tr>
</tbody>
</table>

**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**

---

**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**
**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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**37410 Camshaft Alignment Kit**

For Servicing the Timing Belt, Chains, Head Gaskets, or Other Valve Train Repairs on Ford, Mercury and Mazda Vehicles.

The kit comes with an aluminum camshaft bar, plus one short top dead center (TDC) timing pin and one long TDC timing pin. The camshaft bar and long TDC timing pin are used on 2.0L DOHC Zetec engines found in 1994-2003 Ford and Mercury vehicles. The camshaft bar and short TDC timing pin are used on 2004-2012 2.5L DOHC, 2.3L DOHC 4V and 2.0L DOHC engines that are found in Ford, Mercury and Mazda vehicles. The camshaft alignment bar can also be used by itself on 2.0L DOHC engines in 1993-1994 Ford Probe.

37410 Camshaft Alignment Kit. Skin packed. Shipping wt. 6 oz.

---

**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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**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.
13200 Oil Pressure Switch Socket
Fits 1" and 1-1/16" Switches Up To 1-5/8" Long.
One socket with the correct length to fit 1" and 1-1/16" oil pressure switches (for vehicles equipped with warning lights). 1-7/8" overall height for clearance. Use with 3/8" drive or 1-1/8" hex.

13250 Oil Pressure Switch Socket
Fits 1-1/16" 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.

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.

12390 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.

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.
**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.
20250 Compression Tester. Skin-packed. Shipping wt. 15 oz.
20100 Valve Core. 20280 14mm Adapter

**20530 10mm Spark Plug Adapter**
20540 12mm Spark Plug Adapter
Spark Plug Thread Adapters for 20250 Compression Tester.
For testing on some automobile, motorcycle, ATV, chainsaw and marine gas engines. Includes o-ring.
20530 10mm Spark Plug Adapter. Mini-pouched. Shipping wt. 3 oz.
20540 12mm Spark Plug Adapter. Mini-pouched. Shipping wt. 3 oz.

**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.
75630 Replacement Fluid. 16 fluid oz.

**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.
75730 Combustion Leak Detector Fluid for Diesel. Shipping wt. 1 lb. 4 oz.

**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.
27800 Universal Noid Light. Clam Shell. Shipping wt. 7 oz.
27790 Probe Adapter 27870 Bulb
27890 Wire Assembly
59370 **Stretch Belt Remover/Installer**

Combination Removal and Installation Tool for Most Stretch Belt Applications Found on Many Accessory Drive Systems. Unique magnetic faces hold the tool in place on the pulley. Helps prevent damage to belt or pulley during removal or installation. Compact, one-piece tool can be used on the front or back side of the pulley.

59370 Stretch Belt Remover/Installer. Skin-packed. Shipping wt. 4.5 oz.

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68500 **Manifold Drill Template for Ford 2V & 3V**

Designed to Remove Broken Exhaust Manifold Studs on 4.6L, 5.4L 2 Valve, 5.4L 3 Valve and 6.8L V10 Ford Engines without Damage.

Interchangeable plates ensure drill is centered on the broken stud. Depth gauge for drilling is marked on the template. The stripped screw extractor is then used to remove the broken stud.

68500 Manifold Drill Template for Ford. Molded Case. Shipping wt. 1 lb. 6 oz.

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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.

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48300 **Push Rod Remover**

Redesigned for Newer 3.5L and 3.9L GM Engines. Also Works on 2.8L, 3.1L and 3.4L GM V6 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.


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20300 **Vacuum Gauge and Fuel Pump Tester**

Easy reading gauge assures accurate vacuum and pressure check.

20300 Vacuum Gauge. Skin-packed. Shipping wt. 9 oz.
**30**

**53760 HARMONIC BALANCER INSTALLER, 12 ADAPTERS**

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

Set includes driving screw, thrust bearing and 12 threaded adapters necessary to work on a wide range of domestic and some import harmonic balancers. Four long adapters for use on Dodge Hemi, Generation III and IV GM motors, some Ford and some Chrysler. The 1.75” spacer allows the tool to work more effectively on deep harmonic balancers. Comes with detailed instructions and a heavy-duty plastic storage case.

---

**57650 ALTERNATOR DECOUPLER PULLEY TOOL KIT**

Five Piece Kit for Removing and Installing Many Alternator Decoupler Pulleys on the Most Popular Vehicles in North America.

Includes Two Pulley Sockets and Three Shaft Bits. Kit Works on Both Overriding Alternator Decoupler (OAD) and One-Way Clutch (OWC) Pulleys. Tools can be used while the alternator is on or off the vehicle.

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**60900 HEATER CORE BACKFLUSH TOOL**

Adjustable Pressure Industrial Spray Gun and Stepped Tip Design for Easy Heater Core Flushing.

The tip fits 1/2", 5/8" and 3/4" hose fittings. Water pressure can be easily controlled with one hand by squeezing the handle of the heavy-duty spray gun. The insulated handle protects your hand when using hot water to flush the cooling system. The spray gun attaches to a standard garden hose.
77060 77080 77100 77110 77120 77130 **HARMONIC BALANCER SOCKETS**

Heavy-Duty Impact Sockets Designed with More Than the Standard Socket Mass to Direct More Energy to Removing the Bolt. 77060 has more than two times the standard socket mass. Can be used on Honda engines that use a 17mm hex pulley damper bolt or other 17mm applications. 77080 can be used on Honda engines that use a 19mm hex pulley damper bolt or other 19mm applications. 77100 can be used on Chevy, Chrysler, Dodge, Ford, GM, Jeep & Mazda engines that use a 21mm hex pulley damper bolt or other 21mm applications. 77110 can be used on BMW, Dodge, Ford, Jeep, Kia, Lexus & Toyota engines that use a 22mm hex pulley damper bolt or other 22mm applications. 77120 can be used on Dodge 3.6L engines that use a 27mm hex pulley damper bolt or other 27mm applications. 77130 can be used on 26mm or 1" applications. Heat-treated, impact-quality alloy steel. Use with 1/2" drive.

<table>
<thead>
<tr>
<th>SOCKET</th>
<th>APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>77060</td>
<td>Honda Civic</td>
</tr>
<tr>
<td>77080</td>
<td>19mm Harm Bal Sckt Honda</td>
</tr>
<tr>
<td>77100</td>
<td>21mm Harmonic Balancer Socket</td>
</tr>
<tr>
<td>77110</td>
<td>22mm Harmonic Balancer Socket</td>
</tr>
<tr>
<td>77120</td>
<td>27mm Harmonic Balancer Socket</td>
</tr>
<tr>
<td>77130</td>
<td>26mm Heavy Impact Socket</td>
</tr>
</tbody>
</table>

77060 17mm Harmonic Balancer Socket. Box with Color Label. Shipping wt. 2 lbs.
77080 19mm Harm Bal Sckt Honda. Box with Color Label. Shipping wt. 2 lbs.
77100 21mm Harmonic Balancer Socket. Box with Color Label. Shipping wt. 2 lbs.
77110 22mm Harmonic Balancer Socket. Box with Color Label. Shipping wt. 2 lbs.
77120 27mm Harmonic Balancer Socket. Box with Color Label. Shipping wt. 2 lbs.
77130 26mm Heavy Impact Socket. Box with Color Label. Shipping wt. 2 lbs.
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.

68210 **IPR SOCKET FOR FORD 6.0L AND INTERNATIONAL DIESEL**
Used to Remove and Replace the Injector Pressure Regulator (IPR) on Ford 6.0L, International and Other Diesel Engines.
The slot in the tool has been modified to fit the larger connectors on injector pressure regulators found on International diesels. On this application the wiring comes out of the top of the regulator. This regulator is located in a very tight location. The tool is built to bottom out on the regulator hex so it does not put torque on the connector in case the regulator can be reused. Use with 3/8” square drive.

68210 IPR Socket for Diesel. Hang Tag. Shipping wt. 8oz.

**IMPROVED**
24680 Spill-Free® Funnel
New Clear Funnel Allows a Quick Visual Check of the Coolant from Across the Shop.
Comes with a lid to keep contaminants out as well as store the caps and adapters. 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. Five adapters fit most domestic and import cars and light trucks including newer GM “threaded style” radiator openings and Ford surge tanks. Straight extension and 45° elbows allow use on radiator caps that are placed at an angle or other hard-to-reach applications.

24680 Spill-Free® Funnel, Label. Shipping wt. 1 lb. 3 oz.
21920 Lid
22210 Funnel
22280 45° Elbow
22300 Fluid Stopper
22330 Large Cap A
22340 Medium Cap B
22370 Large Adapter A with Gasket
22390 Medium Adapter B with Gasket
22410 Small Cap C
22450 Small Adapter C with Gasket
24640 Threaded Cap D for GM
24650 Threaded Adapter D with Gasket
24670 Extension
25390 Threaded Adapter E with Gasket

24680 Spill-Free® Funnel
**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.

49520 Clevis Pin

51640 Jaw

51670 Magnet and Housing Assembly

51680 6.5" Rod

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**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.

45350 Retrofit Kit for 45500. Mini-pouched. Shipping wt. 8 oz.

45310 Bolt (3)

45320 Adapter

45510 Body

45530 Center Screw

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**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.

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**41780 Timing Gear Puller**

Pulls Timing Gears as Well as Other Gears with Threaded Holes.

Bar design allows threaded bolts to work with a wide range of threaded hole patterns on gears.

41780 Timing Gear Puller. Skin packed. Shipping wt. 2 lbs.
39000 "No Slip" Pulley Puller/Installer

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

This tool makes removing pressed on pulleys an easy job. The unique puller body completely houses the pulley hub to prevent slipping on even the tightest pulleys. Fits most domestic models including GM 3.1 and Quad 4 engines. Works on traditional V shaped pulleys and serpentine belt system pulleys. Also works faster than other conventional pulley pullers. Patented design traps the pulley and provides a gripping handle. Tool comes with detailed instructions and a heavy-duty plastic storage case.

39010 Short 3/8"x16 Install. Adapter 39020 Short 8mm Install. Adapter
39030 Med. 3/8"x16 Install. Adapter 39040 Long Pin
39050 Puller Screw 39060 Short Pin
39070 Large Jaw 39080 Handle
39090 Washer 39095 Nut
39100 Pusher Shaft 39010 Screw 39020 Small Jaw
39110 Large Jaw 39120 Long Pin 39130 Long 3/8"x16 Install. Adapter
39140 Puller Screw 39150 Small Jaw
39160 Large Jaw 39170 Short Pin 39180 Handle
39190 Washer 39195 Nut
39200 Pusher Shaft

39000 "No Slip" Pulley Puller/Installer. Molded Case. Shipping wt. 2 lbs. 2 oz.

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

31330 2 or 3 Jaw Reversible & Adjustable Gear Puller

5-1/2" Reach, 7" Spread & 5 Ton Capacity

This puller is designed for the removal of gears, pulleys, bearing flanges and fly wheels from shafts and/or housings, for the repair and/or replacement of any of these components for removing motor, magneto and generator bearings and gears.

31330 2 or 3 Jaw Reversible & Adjustable Gear Puller. Clam Shell Package. Shipping wt. 2 lb. 15 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.

- 43600 Universal Fan Clutch Wrench Set, Clam Shell Package. Shipping wt. 2 lbs. 13 oz.
- 43560 36mm - 47mm Fan Clutch Wrench
- 43570 Universal Holding Wrench
- 43580 GM/Dodge Holding Wrench

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**43340 2-1/8" Fan Clutch Wrench**

A New 2-1/8" Fan Clutch Wrench for Use with the 43300 Pneumatic Fan Clutch Wrench Set.

Quickly removes and installs the fan clutch when repairing or replacing the water pump or fan clutch. Works without a holding wrench. Use with an air hammer and the 43370 Driving Wrench from the 43300 Pneumatic Fan Clutch Wrench Set to remove and install the fan clutch when repairing or replacing the water pump or fan clutch. The 2-1/8" Fan Clutch Wrench fits the Borg Warner fan clutch found on International Navistar trucks with 13L and 15L Maxforce engines. May fit other 2-1/8" applications.

**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.

43300 Pneumatic Fan Clutch Wrench Set. Molded Case. Shipping wt. 9 lbs. 5 oz.

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**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).

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

---

**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" (22mm), 1-7/16" (36mm), 1-9/16" (39mm), 1-7/8" (47mm) and 2" (50mm).

42920 Universal Fan Clutch Wrench Set. Boxed. Shipping wt. 8 lb. 5 oz.

42930 Turning Wrench. 42940 Holding Wrench.
### 39850 Master Plus Disconnect Set
A Set of the Most Popular Disconnect Tools in One Handy Molded Case.
Includes fuel line quick connect and spring lock couplings, air conditioning line couplings and transmission oil cooler connectors. All disconnect tools are also available individually.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>39850</td>
<td>Master Plus Disconnect Set, Molded Case. Shipping wt. 3 lbs. 4 oz.</td>
</tr>
<tr>
<td>11750</td>
<td>Clutch Coupling Remover for Ford</td>
</tr>
<tr>
<td>22930</td>
<td>Low Profile 3/8” Jiffy-tite® Disc.</td>
</tr>
<tr>
<td>22940</td>
<td>Low Profile 1/2” Jiffy-tite® Disc.</td>
</tr>
<tr>
<td>34750</td>
<td>Low Profile Fuel Line Disc. Set</td>
</tr>
<tr>
<td>37000</td>
<td>AC/Fuel Line Disc. Set</td>
</tr>
<tr>
<td>37300</td>
<td>Fuel &amp; AC Disconnect Pliers</td>
</tr>
<tr>
<td>37500</td>
<td>Fuel Module Disc. Tool for GM</td>
</tr>
<tr>
<td>39180</td>
<td>Fuel Line Retaining Clip Tool Set</td>
</tr>
<tr>
<td>39210</td>
<td>Main Fuel Line Disc. for Toyota &amp; Nissan</td>
</tr>
<tr>
<td>39400</td>
<td>Angled Disconnect Set</td>
</tr>
<tr>
<td>39660</td>
<td>Trans. Oil Cooler Line Scissors 3/8” x 1/2”</td>
</tr>
<tr>
<td>39820</td>
<td>Coupler Disc. for Chrysler</td>
</tr>
<tr>
<td>39830</td>
<td>Oil Cooler Line Disc. for Ford</td>
</tr>
<tr>
<td>39840</td>
<td>Fuel Line Disc. for Ford</td>
</tr>
<tr>
<td>39810</td>
<td>Hydraulic Clutch Line Disc. for GM</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>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>39900</td>
<td>Master Disconnect Set, Molded Case. Shipping wt. 3 lbs. 13 oz.</td>
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<tr>
<td>35000</td>
<td>Flex Fuel Disconnect for GM</td>
</tr>
<tr>
<td>37000</td>
<td>AC/Fuel Line Disconnect Set</td>
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<tr>
<td>37500</td>
<td>Fuel Line Quick Disconnect for GM</td>
</tr>
<tr>
<td>39400</td>
<td>Angled AC/Fuel Line Disc. Set</td>
</tr>
<tr>
<td>39930</td>
<td>5/16” &amp; 3/8” Scissor Disconnect</td>
</tr>
<tr>
<td>39940</td>
<td>Coupler Disconnect</td>
</tr>
<tr>
<td>39960</td>
<td>Ford Transmission Line Disconnect</td>
</tr>
</tbody>
</table>

### 37300 Fuel and AC Disconnect Pliers
Unique Design Provides Extra Leverage When Disconnecting Quick Connect Coupling Air Conditioning and Fuel Lines.
Use with 5/16”, 3/8” or 1/2” adapters from the Lisle 37000 or 39400 Disconnect Tool Sets. The forks have different sized openings so the tool can be turned around to fit single or two step collar designed connector lines. The pliers can also be used to reconnect stubborn lines or connections that are in hard-to-reach areas.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>37300</td>
<td>Fuel and AC Disconnect Pliers. Skin packed. Shipping wt. 9 oz.</td>
</tr>
</tbody>
</table>

### 39160 Fuel Line Retaining Clip Tool Set
Compact Tool Design Fits Tight Spaces.
Two sizes, 3/8” and 5/16” are designed to release the nylon retaining clip used on the fuel lines of newer GM and Chrysler vehicles with in tank electric fuel pumps. Includes bead chain for storage.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>39160</td>
<td>Fuel Line Retaining Clip Tool Set. Skin-packed. Shipping wt. 1 oz.</td>
</tr>
<tr>
<td>39170</td>
<td>5/16” Disconnect Tool</td>
</tr>
<tr>
<td>39180</td>
<td>3/8” Disconnect Tool</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".

37000 Air Conditioning / Fuel Line Dis. Tool Set. Skin-packed. Shipping wt. 4 oz.

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39400 **ANGLED DISCONNECT TOOL SET**

Disconnects Air Conditioning and Quick Connect Fuel Lines.


39400 Angled Disconnect Tool Set. Skin-packed. Shipping wt. 4 oz.

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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 and Sierras and other GM fuel lines. 5/16" adapters work on Ford and Chrysler applications.

34750 Low Profile Fuel Line Disconnect Set. Skin-packed. Shipping wt. 5 oz.

---

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.

35000 Fuel Filter Disconnect for GM. Skin-packed. Shipping wt. 2 oz.

---

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.

37500 Fuel Module Disconnect Tool for GM. Skin-packed. Shipping wt. 1 oz.
39210 MAIN FUEL LINE DISCONNECT
FOR TOYOTA AND NISSAN
Disconnects the 5/16” Main Fuel Line from the Fuel Rail on Many Toyota and Nissan Vehicles.
Hinged design and fully tapered end allow tool to be quickly and easily inserted into fuel line quick connector, even in hard-to-reach areas. Works on Toyota Echo, Scion xB, xA, TC, Solara, Corolla, Sequoia, Celica, RAV 4, Prius, Camry, MR2, Matrix, Tundra and Highlander. Also for 2004 and newer Nissan models with a 5/16” fuel rail.

63800 SPRING LOCK COUPLER DISCONNECT SET, 7PC.
Set of Seven Disconnect Tools for Spring Lock Connectors on A/C and Fuel Lines Found on Many Chrysler and Ford Vehicles.
The tools are color coded for sizing and spring loaded to remain on the A/C or fuel line.

63730 SCISSOR DISC AC / FUEL LINE SPRING LOCK
Releases Four Sizes of Spring Lock Couplings on A/C and Fuel Lines.
The tool fits four spring lock sizes: A-3/4”, B-5/8”, C-1/2”, and D-3/8” found on many Chrysler and Ford vehicles.

63710 63720 SCISSOR DISCONNECTS LOW PROFILE
The 1/2” side on the 63710 is especially useful for removing the fuel supply line from the sending unit on 2001 and newer Chevrolet/GMC 3/4-ton and 1-ton trucks equipped with 6.6L Duramax engine. The 3/8” side of the 63720 is especially useful for removing the fuel supply line from the center port of the sending unit on 2000 and newer Chevrolet/GMC Suburban and Tahoe/Yukon. Also 1999 and newer Chevrolet Silverado pickups equipped with gas engines.
**63000 Fuel Tank Lock Ring Tool**

A Rugged Tool To Remove and Install Plastic Fuel Tank Lock Rings from 4" to 7-1/4" Without Damage.

Channel Design on body allows the legs to adjust to fit a wide range of applications and keeps the drive centered. Works on the new smaller GM serrated rings and traditional rings. The design is compact so the tool is not left hanging over the work area with the potential for hitting other components.

63000 Fuel Tank Lock Ring Tool. Skin-packed. Shipping wt. 1 lbs. 6 oz.

---

**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.

55700 Master Fuel Injection Test Set. Plastic case. Shipping wt. 10 lbs.

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**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.

58600 Basic Fuel Injection Test Set. Plastic case. Shipping wt. 4 lbs.
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.

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.

51410 **SPARK PLUG WIRE REMOVAL Pliers**
Used to Remove Stubborn Spark Plug Wires on GM 3.1L, 3.4L, 3.8L and Other Engines.
The 5/8” opening of the pliers properly fits spark plug wire boots to prevent damage to spark plug wires. Tool is 7” long with offset tip to fit in tight spots.
51410 Spark Plug Wire Removal Pliers. Skin Pack Card. Shipping wt. 8 oz.

51420 **OFFSET SPARK PLUG WIRE REMOVAL Pliers**
Used to Remove Stubborn Spark Plug Wires.
The 5/8” opening of the pliers properly fits spark plug wire boots to help prevent damage. Offset design works great on boots with heat sleeves found on some GM engines. Easy-to-use in tight spaces such as rear boots on V6 transverse mounted engines. Pliers can also be used on hoses and for holding other objects.
51420 Offset Spark Plug Wire Removal Pliers. Skin Pack Card. Shipping wt. 8 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.
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.

---

20700 **COIL-ON-PLUG SPARK TESTER**
Provides an Easy Way to Check Ignition Systems with Coil-On Plugs. Applications Include Ford, Chrysler, Mitsubishi, Nissan and More.
It is the quickest way to test for no-start conditions. An inductive test cannot be performed, because there are no plug wires. High visibility white lettering makes it easy to read the gap measurement from 0 to 40k. The round knob provides easy gap adjustment and the 12" ground wire comes with a shielded clip. The standard plug wire tip can be unscrewed so the tester can be used on small engines and some motorcycles.

20700 Coi-On-Plug Spark Tester. Skin packed. Shipping wt. 4 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.

---

51600 **SPARK PLUG WIRE PULLER**
Also Pulls Cartridge Fuses.
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 Thread Chaser. Skin-packed. Shipping wt. 5 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.
**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

**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**

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

**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 with vinyl holder for storage.

- 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.

**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.
**22990 4 PC. LOW PROFILE JIFFY-TITE® DISCONNECT SET**

Low Profile Design Quickly and Easily
Disengages the Line from Jiffy-tite Quick-Connect Fittings without Removal of the Clip.

The teeth of the tool fit perfectly into the tight tolerance of Jiffy-tite® connectors and when rotated allow the line to be pulled without damage to the connector or retaining clip so they can be reused. Includes four sizes: 3/8", 1/2", 5/8"-30% and 5/8"-39%. All sizes are available individually.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>22990</td>
<td>4 PC. Low Profile Jiffy-tite® Disconnect Set</td>
<td>9 oz.</td>
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<tr>
<td>22930</td>
<td>Low Profile 3/8&quot; Jiffy-tite® Disconnect</td>
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</tr>
<tr>
<td>22940</td>
<td>Low Profile 1/2&quot; Jiffy-tite® Disconnect</td>
<td></td>
</tr>
<tr>
<td>22950</td>
<td>Low Profile 5/8&quot;-30% Jiffy-tite® Disconnect</td>
<td></td>
</tr>
<tr>
<td>22960</td>
<td>Low Profile 5/8&quot;-39% Jiffy-tite® Disconnect</td>
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</tr>
<tr>
<td>22970</td>
<td>Low Profile 3/4&quot; Jiffy-tite® Disconnect (available individually)</td>
<td></td>
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</tbody>
</table>

**22930 3/8" JIFFY-TITE® DISCONNECT**  
**22920 8MM JIFFY-TITE® DISCONNECT**

Low-Profile Design Quickly and Easily
Disengages Jiffy-tite Quick-Connect Fittings Without Removal of the Clip.

Teeth of the tool fit perfectly into tight tolerance of Jiffy-tite® connectors and when rotated allow the line to be pulled without damage to the connector or retaining clip so they can be reused. 22930 fits the most popular Jiffy-tite® fittings used in newer GM vehicles, many newer Daimler Chrysler and some newer Mercedes vehicles. 22920 works on 8mm Jiffy-tite connectors found on turbo cooling lines on 3.6L GM LF3 engines and some European vehicle engines.

Fittings are found on oil cooler lines used on transmissions and radiators and on other applications. Also found on Harley-Davidson V-Rod.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
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<tbody>
<tr>
<td>22930</td>
<td>3/8&quot; Jiffy-tite® Disconnect</td>
<td>3 oz.</td>
</tr>
<tr>
<td>22920</td>
<td>8mm Jiffy-tite® Disconnect</td>
<td>1 oz.</td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>22710</td>
<td>Disconnect Set For Jiffy-Tite® Connectors</td>
<td>12 oz.</td>
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<tr>
<td>22720</td>
<td>3/8&quot; Jiffy-tite® Disconnect</td>
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</tr>
<tr>
<td>22730</td>
<td>1/2&quot; Jiffy-tite® Disconnect</td>
<td></td>
</tr>
<tr>
<td>22740</td>
<td>5/8&quot; 39% Jiffy-tite® Disconnect</td>
<td></td>
</tr>
<tr>
<td>22750</td>
<td>5/8&quot; 30% Jiffy-tite® Disconnect</td>
<td></td>
</tr>
</tbody>
</table>

Applications:
1998 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**
Two Sizes, 3/8" and 1/2" are Designed to Disconnect Transmission Cooler Lines. 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.

| 39960 Trans. Oil Cooler Line Disconnect for Ford | Skin-packed, Shipping wt. 1 oz. |
| 39910 1/2" Disconnect | 39920 3/8" Disconnect |

**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.

| 39660 Transmission Oil Cooler Line Scissors 3/8" x 1/2" | Skin-packed, Shipping wt. 3 oz. |

**23400 Transmission/Transaxle Plugs**
Stops Loss of Transmission Fluid. Stepped plugs fit transmissions and transaxles on most cars and pickups. Stepped design prevents slipping. Plugs cover a range of 1" - 2.180" (25.4mm - 55.37mm).

| 23400 Transmission Plugs | Clam Shell Package, Shipping wt. 11 oz. |

**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.

| 55600 Clutch Pilot Bushing Remover | Skin-packed, Shipping wt. 4 oz. |

**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.

| 55500 Clutch Alignment Tool | Clam Shell Package, Shipping wt. 1 lb. 3 oz. |
| 61750 Metric Clutch Alignment Tool | Clam Shell Package, Shipping wt. 15 oz. |
57010 57020 57030 57040
**SWIVEL-GRIPPER™**

**“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. Patented 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.

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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.

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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.

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www.lislecorp.com
**61450 10 PC. HEAVY DUTY END CAP FILTER WRENCH SET**

**61500 17 PC. HEAVY DUTY END CAP FILTER WRENCH MASTER SET**

Heavy Duty Design with a Welded Steel Plate for Strength.

Two collections of end cap filter wrenches to fit the most popular domestic and import vehicles.

- **61450 10 pc. Heavy Duty End Cap Filter Wrench Set.**
  - Molded Case. Shipping wt. 4 lbs. 15 oz.

- **61500 17 pc. Heavy Duty End Cap Filter Wrench Master Set.**
  - Molded Case. Shipping wt. 7 lbs. 12 oz.

<table>
<thead>
<tr>
<th>Flute Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>93mm-45 flutes</td>
<td>61520 73/74mm-14 flutes</td>
</tr>
<tr>
<td>82mm-15 flutes</td>
<td>*61540 65/67mm-14 flutes</td>
</tr>
<tr>
<td>80mm-15 flutes</td>
<td>*61550 74/76mm-15 flutes</td>
</tr>
<tr>
<td>76mm-14 flutes</td>
<td>*61580 93mm-15 flutes</td>
</tr>
<tr>
<td>93mm-36 flutes</td>
<td>*61600 65mm-14 flutes</td>
</tr>
<tr>
<td>86mm-14 flutes</td>
<td>61620 88.4mm-15 flutes</td>
</tr>
<tr>
<td>96mm-18 flutes</td>
<td>61640 68mm-14 flutes</td>
</tr>
<tr>
<td>76mm-30 flutes</td>
<td>61660 86mm-16 flutes</td>
</tr>
<tr>
<td>100mm-15 flutes</td>
<td></td>
</tr>
</tbody>
</table>

*Available hang tag packaged for display. Others are available mini-pouched.

**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. 5 pc. 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>Flute Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>24mm</td>
<td>*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</td>
</tr>
<tr>
<td>27mm</td>
<td>*14600 29mm (1-1/8”) for Dodge Cummins Fuel Filter Housing</td>
</tr>
<tr>
<td>32mm</td>
<td>*14700 32mm (1-1/4”) for GM Ecotec, 2.0L, 2.2L and 2.4L Four Cylinder Oil Filter Housing; Some Saturn &amp; Saab</td>
</tr>
</tbody>
</table>

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

**60200 HEAVY DUTY STRAP FILTER WRENCH**

A Heavy-Duty Heat Treated Alloy Steel Yoke and Strong Web Strap.

Use with 1/2” drive to remove or install filters and other objects up to 6-1/2” in diameter. 3-5/8” long yoke fits into tight areas.

60200 Heavy Duty Strap Filter Wrench. Skin-packed. Shipping wt. 8 oz.
**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.

- **63250 Wide Range Filter Wrench**. Skin-packed. Shipping wt. 14 oz.
- **63600 Import Car Filter Wrench**. Skin-packed. Shipping wt. 14 oz.
- **63630 Replacement Spring**.

**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.

- **50750 Oil Filter Pliers**. Skin-packed. Shipping wt. 1 lb. 5 oz.
- **50950 Truck and Tractor Oil Filter Pliers**. Skin-packed. Shipping wt. 1 lb. 13 oz.

**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).

- **53100 Adjustable Oil Filter Wrench**. Skin-packed. Shipping wt. 14 oz.

**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.

- **53400 Universal 3" Oil Filter Wrench**. Skin-packed. Shipping wt. 8 oz.

**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.

**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**
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. Shipping wt. 5 oz.

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.

27530 T-70 Torx® Bit
Fits the Torque Converter Drain Plug.
Works on 2003 and later Subaru Legacy, Forester, Impreza and brake rotor retaining bolts on GM C4500 trucks. 1/2" drive.

82200 82300 Super Torx® Bit Socket Sets
Two-Piece Design is 20% Stronger Than One-Piece Torx Bits.
13 of the most popular Torx® sizes in two sets for many automotive applications. Made with heat-treated S2 alloy steel.

82200 Includes:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>82210</td>
<td>T-10</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>82220</td>
<td>T-15</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>82230</td>
<td>T-20</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>82240</td>
<td>T-25</td>
<td>1/4&quot;</td>
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<td>82250</td>
<td>T-27</td>
<td>1/4&quot;</td>
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<tr>
<td>82260</td>
<td>T-30</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>82270</td>
<td>T-40</td>
<td>3/8&quot;</td>
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<td>82280</td>
<td>T-45</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>82290</td>
<td>T-50</td>
<td>3/8&quot;</td>
</tr>
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</table>

82300 Includes:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>82310</td>
<td>T-47</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>82320</td>
<td>T-55</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>82330</td>
<td>T-60</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>82340</td>
<td>T-70</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

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

TORX® and TORX PLUS® are a trademark of Accument 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Bolt Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>26790</td>
<td>E-5</td>
<td>5/32&quot;, 4mm</td>
</tr>
<tr>
<td>26780</td>
<td>E-6</td>
<td>9/64&quot;, 5mm</td>
</tr>
<tr>
<td>26770</td>
<td>E-7</td>
<td>1/8&quot;, 6mm</td>
</tr>
<tr>
<td>26760</td>
<td>E-8</td>
<td>5/32&quot;, 5mm</td>
</tr>
<tr>
<td>26750</td>
<td>E-9</td>
<td>5/32&quot;, 6mm</td>
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<tr>
<td>26740</td>
<td>E-10</td>
<td>7/32&quot;, 8mm</td>
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<tr>
<td>26730</td>
<td>E-12</td>
<td>1/4&quot;, 10mm</td>
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<tr>
<td>26720</td>
<td>E-14</td>
<td>9/32&quot;, 12mm</td>
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<tr>
<td>26710</td>
<td>E-16</td>
<td>5/16&quot;, 14mm</td>
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<tr>
<td>26700</td>
<td>E-18</td>
<td>3/8&quot;, 16mm</td>
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<tr>
<td>26690</td>
<td>E-20</td>
<td>7/16&quot;, 18mm</td>
</tr>
<tr>
<td>26680</td>
<td>E-22</td>
<td>1/2&quot;, 20mm</td>
</tr>
</tbody>
</table>

26280 Torx® Socket Set. Skin-packed. Shipping wt. 1 lb.

26750 Torx® Socket Set. Skin-packed. Shipping wt. 9 oz.

---

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Bolt Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>26010</td>
<td>T-10</td>
<td>#8</td>
</tr>
<tr>
<td>26020</td>
<td>T-15</td>
<td>#10</td>
</tr>
<tr>
<td>26030</td>
<td>T-20</td>
<td>#12 &amp; 1/4&quot;</td>
</tr>
<tr>
<td>26040</td>
<td>T-25</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>26050</td>
<td>T-27</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>26060</td>
<td>T-30</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>26070</td>
<td>T-40</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>26080</td>
<td>T-55</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

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

---

26530 **Master Tamper Resistant Torx® Bit Set**

Ten hex insert bits with two bit holders. Includes Torx® sizes T-10 through T-55.

Seven smallest bits are used with the 1/4" bit holder. Three largest bits use the 3/8" bit holder. Convenient vinyl holder.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Bolt Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>26500</td>
<td>T-10</td>
<td>#8</td>
</tr>
<tr>
<td>26510</td>
<td>T-15</td>
<td>#10</td>
</tr>
<tr>
<td>26520</td>
<td>T-20</td>
<td>#12 and 1/4&quot;</td>
</tr>
<tr>
<td>26530</td>
<td>T-25</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>26540</td>
<td>T-27</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>26550</td>
<td>T-30</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>26560</td>
<td>T-40</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>26570</td>
<td>T-45</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>26580</td>
<td>T-50</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>26590</td>
<td>T-55</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

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

---

81000 **Torx Plus® Bit Set**

Nine of the Most Popular Torx Plus® Sizes for Automotive Applications.

Torx Plus® drivers will not fit standard Torx® fasteners. Standard Torx® drivers will fit Torx Plus® fasteners, but not to full torque because of the loose fit, and are not recommended. Some common Torx Plus® applications include GM transmission bell housing bolts, Ford seat belt anchors and Ford pick-up bed bolts. Set includes: TP-10, TP-15, TP-20, TP-25, TP-27, TP-30, TP-40, TP-45 and TP-50. Six smaller bits are 1/4" drive and three larger bits are 3/8" drive. Vinyl holder for storage included. All bits plus TP-55 and TP-60 are available individually.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Bolt Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>81010</td>
<td>TP-10</td>
<td>#8</td>
</tr>
<tr>
<td>81020</td>
<td>TP-15</td>
<td>#10</td>
</tr>
<tr>
<td>81030</td>
<td>TP-20</td>
<td>#12</td>
</tr>
<tr>
<td>81040</td>
<td>TP-25</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>81050</td>
<td>TP-27</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>81060</td>
<td>TP-30</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>81070</td>
<td>TP-40</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>81080</td>
<td>TP-45</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>81090</td>
<td>TP-50</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>81100</td>
<td>TP-55</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>81110</td>
<td>TP-60</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

81000 Torx Plus® Bit Set. Skin-packed. Shipping wt. 11 oz.

---

83100 **External Torx Plus® Socket Set**

Nine of the Most Popular Torx Plus® Socket Sizes for Automotive Applications.

External Torx Plus® applications include body panels on newer Ford trucks with aluminum bodies and seats on GM trucks. Standard Torx® sockets will not fit Torx Plus® fasteners. Three smaller sockets are 1/4" drive, five sockets are 3/8" drive and largest socket is 1/2" drive.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torx Size</th>
<th>Bolt Size</th>
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<tbody>
<tr>
<td>83110</td>
<td>EP-8</td>
<td>#8</td>
</tr>
<tr>
<td>83120</td>
<td>EP-7</td>
<td>#10</td>
</tr>
<tr>
<td>83130</td>
<td>EP-6</td>
<td>#12</td>
</tr>
<tr>
<td>83140</td>
<td>EP-5</td>
<td>5/16&quot;</td>
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<tr>
<td>83150</td>
<td>EP-4</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>83160</td>
<td>EP-3</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>83170</td>
<td>EP-2</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>83180</td>
<td>EP-1</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>83190</td>
<td>EP-0</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

83100 External Torx Plus® Socket Set. Skin Pack Card. 14 oz.
**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 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** includes 12 heat-treated alloy steel hex keys. 42300 Metric Set includes 9 heat-treated alloy hex keys. Also available individually.

**42150 Standard Hex Key Set.** Skin-packed. Shipping wt. 7 oz.

**42300 Metric Hex Key Set.** Skin-packed. Shipping wt. 10 oz.

---

**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.

---

**82400 MORTORQ® Super Socket Set, 5pc.**

For Removing and Installing MORTORQ® Fasteners Found on Chrysler, GM, Jeep and Other Models.

The fasteners are used in a variety of applications including bell housings, interior components, door frames, body components and more. Sockets are made of heat-treated alloy steel. Includes sizes MTS-0, MTS-1, MTS-2, MTS-3 and MTS-4. Use with 3/8" square drive. Includes vinyl holder for storage.

- **82400 MORTORQ® Super Socket Set, 5pc.** Skin packed. Shipping wt. 10 oz.
  - 82410 #0 Socket
  - 82420 #1 Socket
  - 82430 #2 Socket
  - 82440 #3 Socket
  - 82450 #4 Socket

---

**Part No.** | **Wrench Size**
---|---
42160 | .05"  
42170 | 1/16"  
42180 | 5/64"  
42190 | 3/32"  
42200 | 7/64"  
42210 | 1/8"  
42220 | 9/64"  
42230 | 5/32"  
42240 | 3/16"  
42250 | 7/32"  
42260 | 1/4"  
42270 | 5/16"  

**Part No.** | **Wrench Size**
---|---
42310 | 1.5mm  
42320 | 2mm  
42330 | 2.5mm  
42340 | 3mm  
42350 | 4mm  
42360 | 5mm  
42370 | 6mm  
42380 | 8mm  
42390 | 10mm  

**Part No.** | **Wrench Size**
---|---
42520 | 5/16"  
42530 | 1/4"  
42540 | 7/32"  
42550 | 3/16"  
42560 | 5/32"  
42570 | 9/64"  
42580 | 1/8"  
42590 | 7/64"  
42600 | 3/32"  
42610 | 5/64"  
42620 | 1/16"  
42630 | .05"  

**Part No.** | **Wrench Size**
---|---
42660 | 10mm  
42670 | 8mm  
42680 | 6mm  
42690 | 5mm  
42700 | 4mm  
42710 | 3mm  
42720 | 2.5mm  
42730 | 2mm  
42740 | 1.5mm  

**Part No.** | **Size**
---|---
33860 | 3mm  
33870 | 4mm  
33880 | 5mm  
33890 | 6mm  
33900 | 7mm  
33910 | 8mm  
33920 | 10mm  

**Part No.** | **Size**
---|---
13610 | 1/8"  
13620 | 5/32"  
13630 | 3/16"  
13640 | 7/32"  
13650 | 1/4"  
13660 | 5/16"  
13670 | 3/8"
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 5/32" hex drive. The 6, 8, 10 and 12mm bits have 1/8" hex drive. The 14 and 16mm bits have 5/16" hex drive. The 18mm bit has a 3/8" hex drive. The three largest sizes are designed to work on tamper-proof applications.

60850 Master Triple Square Bit Set Skin-packed. Shipping wt. 15 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Size</th>
<th>Drive Size</th>
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<tbody>
<tr>
<td>60710</td>
<td>4mm Triple Square Bit</td>
<td>5/32&quot;</td>
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<tr>
<td>60720</td>
<td>5mm Triple Square Bit</td>
<td>1/8&quot;</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>60760</td>
<td>6mm Triple Square Bit</td>
<td>3/32&quot;</td>
<td>3/32&quot;</td>
</tr>
<tr>
<td>60770</td>
<td>8mm 12 Point Bit</td>
<td>7/64&quot;</td>
<td>7/64&quot;</td>
</tr>
<tr>
<td>60780</td>
<td>10mm Triple Square Bit</td>
<td>1/8&quot;</td>
<td>1/8&quot;</td>
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<tr>
<td>60790</td>
<td>12mm Triple Square Bit</td>
<td>9/64&quot;</td>
<td>9/64&quot;</td>
</tr>
<tr>
<td>60860</td>
<td>14mm Triple Square Bit</td>
<td>5/32&quot;</td>
<td>5/32&quot;</td>
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<tr>
<td>60870</td>
<td>16mm Triple Square Bit</td>
<td>3/16&quot;</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>60880</td>
<td>18mm Triple Square Bit</td>
<td>13/64&quot;</td>
<td>13/64&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.

60750 12 Point Bit Set. Skin-packed. Shipping wt. 10 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>60760</td>
<td>6mm 12 Point Bit</td>
<td>5/32&quot;</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>60770</td>
<td>8mm 12 Point Bit</td>
<td>7/64&quot;</td>
<td>7/64&quot;</td>
</tr>
<tr>
<td>60780</td>
<td>10mm 12 Point Bit</td>
<td>9/64&quot;</td>
<td>9/64&quot;</td>
</tr>
<tr>
<td>60790</td>
<td>12mm 12 Point Bit</td>
<td>13/64&quot;</td>
<td>13/64&quot;</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. All bits available individually skin packed.

62900 Super Out Extractor Set. Skin-packed. Shipping wt. 4 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>62560</td>
<td>#1 Stripped Screw Extractor</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>62570</td>
<td>#2 Stripped Screw Extractor</td>
<td>5/16&quot;</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>62730</td>
<td>#3 Stripped Screw Extractor</td>
<td>11/64&quot;</td>
<td>11/64&quot;</td>
</tr>
<tr>
<td>62580</td>
<td>#4 Stripped Screw Extractor</td>
<td>15/64&quot;</td>
<td>15/64&quot;</td>
</tr>
<tr>
<td>62590</td>
<td>#5 Stripped Screw Extractor</td>
<td>19/64&quot;</td>
<td>19/64&quot;</td>
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<tr>
<td>62600</td>
<td>#6 Stripped Screw Extractor</td>
<td>21/64&quot;</td>
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<tr>
<td>62610</td>
<td>#7 Stripped Screw Extractor</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>62620</td>
<td>#8 Stripped Screw Extractor</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>62630</td>
<td>#9 Stripped Screw Extractor</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>62640</td>
<td>#10 Stripped Screw Extractor</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

61980 **STRIPPED SCREW EXTRACTOR SET, 10PC.**

Six Lobed Spiral Bits are Designed to Remove Rounded or Stripped Fasteners with Internal Drive Heads.

Ten sizes of extractors fit Torx® and Torx Plus® sizes T-10 to T-55; internal hex sizes 7/64" to 3/8" and 3mm to 10mm. Will also work on other internal drive screw heads. To remove broken bolts, drill a pilot hole for the appropriate size extractor. Choose the extractor that fits snugly in the fastener. Turn counter-clockwise to remove fastener. It may be necessary in some applications to drive the extractor into the fastener with a hammer for maximum torque.

61980 Stripped Screw Extractor Set. 10pc. Skin Pack. Shipping wt. 9 oz.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bolt Size</th>
<th>Drive Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>62010</td>
<td>#1 Stripped Screw Extractor</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>62020</td>
<td>#2 Stripped Screw Extractor</td>
<td>5/16&quot;</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>62030</td>
<td>#3 Stripped Screw Extractor</td>
<td>11/64&quot;</td>
<td>11/64&quot;</td>
</tr>
<tr>
<td>62040</td>
<td>#4 Stripped Screw Extractor</td>
<td>15/64&quot;</td>
<td>15/64&quot;</td>
</tr>
<tr>
<td>62050</td>
<td>#5 Stripped Screw Extractor</td>
<td>19/64&quot;</td>
<td>19/64&quot;</td>
</tr>
<tr>
<td>62070</td>
<td>#7 Stripped Screw Extractor</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>62080</td>
<td>#8 Stripped Screw Extractor</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>62090</td>
<td>#9 Stripped Screw Extractor</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>62100</td>
<td>#10 Stripped Screw Extractor</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

50180 **NUT SPLITTER**

Tool Removes Stuck Nuts 7/16" up to 3/4".

Drop-forged steel body with heat-treated chisel point. Offset design allows clearance for wrench or socket.

50180 Nut Splitter. Skin packed. Shipping wt. 12 oz.
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!

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tool</th>
<th>29000</th>
<th>3/8&quot; Impact Tool</th>
<th>29520</th>
<th>3/8&quot; Bit Holder</th>
<th>29630</th>
<th>#1 Phillips Bit</th>
<th>30180</th>
<th>#2 Phillips Bit</th>
<th>29550</th>
<th>#3 Phillips Bit</th>
<th>30190</th>
<th>#4 Phillips Bit</th>
<th>30170</th>
<th>3/8&quot; Straight Slot Bit</th>
</tr>
</thead>
<tbody>
<tr>
<td>29200</td>
<td>3/8&quot; Impact Tool Set</td>
<td>3/8&quot; sq. drive with 3/8&quot; drive bit holder; #1, #2, #3, #4 Phillips, and 3/8&quot; straight slot bits. Shipping wt. 2 lbs. 10 oz. NSN 5120-01-072-2956</td>
<td>29520</td>
<td>3/8&quot; Bit Holder</td>
<td>29630</td>
<td>#1 Phillips Bit</td>
<td>30180</td>
<td>#2 Phillips Bit</td>
<td>29550</td>
<td>#3 Phillips Bit</td>
<td>30190</td>
<td>#4 Phillips Bit</td>
<td>30170</td>
<td>3/8&quot; Straight Slot Bit</td>
<td></td>
</tr>
</tbody>
</table>

30200 1/2" 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

30750 Hand Impact Tool Set
Loosens Rusted or Frozen Screws Quickly...Manually.
A popular tool also available in a smaller, easy-to-display clam-shell package. Simply strike with a hammer. Each impact turns the bit 20° and develops up to 200 ft-lbs torque to free rusted or frozen screws. Can also be used with 1/2" drive impact sockets. Includes #2, #3, #4 Phillips and 3/8" straight bits with 5/16" hex drive.

30750 Hand Impact Tool Set. Clam Shell. Shipping wt. 2 lbs. 2 oz.

62140 Seized Fastener Remover Kit
For Use with a Pneumatic Impact Tool to Loosen Rusted or Seized Fasteners. Specially Designed Driver Works with the Included Sockets or Bit Holder and 5/16" Hex Impact Bits.
Hex shape of the sockets and flats on the bit holder allow use of a turning wrench while impacting the fastener. A locking pin in the driver keeps the bit holder in place on the square drive for safe operation. The bit holder can be removed from the driver by depressing the pin. Kit includes six sockets, Phillips #1, #2, #3, #4 and a straight slot bit.


<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tool</th>
<th>29010</th>
<th>#1 Phillips Bit</th>
<th>29020 #2 Phillips Bit</th>
<th>29030 #3 Phillips Bit</th>
<th>29140 #4 Phillips Bit</th>
<th>29190 Straight Slot Bit</th>
<th>60280 Socket #1</th>
<th>60290 Socket #2</th>
<th>60300 Socket #3</th>
<th>60310 Socket #4</th>
<th>60320 Socket #6</th>
<th>60340 Socket #5</th>
<th>60540 Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>29010</td>
<td>#1 Phillips Bit</td>
<td>29020</td>
<td>#2 Phillips Bit</td>
<td>29030</td>
<td>#3 Phillips Bit</td>
<td>29140</td>
<td>#4 Phillips Bit</td>
<td>29190</td>
<td>Straight Slot Bit</td>
<td>60280</td>
<td>Socket #1</td>
<td>60290</td>
<td>Socket #2</td>
<td>60300</td>
</tr>
<tr>
<td>60290</td>
<td>Socket #2</td>
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<td>Socket #3</td>
<td>60310</td>
<td>Socket #4</td>
<td>60320</td>
<td>Socket #6</td>
<td>60340</td>
<td>Socket #5</td>
<td>60540</td>
<td>Driver</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

60530 Small Fastener Remover
For Use with a Pneumatic Impact Tool to Loosen Rusted or Seized Fasteners.
A 3/4" open end wrench can be used to turn the bit holder while impacting the fastener. A locking pin in the driver keeps the bit holder in place on the square drive for safe operation. The bit holder can be removed from the driver by depressing the pin. Works faster than hand impact tools. Especially useful for removing brake rotor screws. The tool works with 5/16" hex impact bits. Kit includes Phillips #1, #2, #3, #4 and a straight slot bit.

19250 **Stuck Bolt, Nut, and Stud Remover Set**
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.

19260 #1 Remover. Fits 1/4" and 6mm.
19270 #2 Remover. Fits 5/16" and 8mm.
19280 #3 Remover. Fits 3/8" and 10mm.
19290 #4 Remover. Fits 7/16" and 11mm.
19300 #5 Remover. Fits 1/2" and 13mm.
19310 #6 Remover. Fits 9/16" and 14mm.

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.


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.

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.
**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.

**49460 Tip Set**

Includes Two Each of the Following Sizes:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>.060&quot;</td>
<td>75°</td>
</tr>
<tr>
<td>.062&quot;</td>
<td>15°</td>
</tr>
<tr>
<td>.075&quot;</td>
<td>75°</td>
</tr>
<tr>
<td>.075&quot;</td>
<td>15°</td>
</tr>
<tr>
<td>.090&quot;</td>
<td>75°</td>
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<td>.090&quot;</td>
<td>15°</td>
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<tr>
<td>.108&quot;</td>
<td>15°</td>
</tr>
<tr>
<td>.125&quot;</td>
<td>75°</td>
</tr>
<tr>
<td>.125&quot;</td>
<td>15°</td>
</tr>
</tbody>
</table>

**46200 Snap Ring Pliers, Small**

Reversible Action for Both Internal and External Snap Rings. Smaller Design to Fit Tight Spaces.
The tool quickly converts from internal to external use. Simply pivot each handle to the opposite side to reverse action. Includes four pairs of tips to fit a wide range of snap ring sizes. 45° and 90° tips for hard to reach areas. Conical tip ends prevent the snap ring from slipping off of the tips.

46200 Snap Ring Pliers, Small. Skin packed. Shipping wt. 4 oz.
46250 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. 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.

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

**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.
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.
35260 Plastic Fastener Remover. Skin-packed. Shipping wt. 3 oz.

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.
35400 Door Upholstery Remover. Skin-packed. Shipping wt. 7 oz.

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.
35350 Door Panel Remover. Skin-packed. Shipping wt. 8 oz.

35440 **Body Trim Tool Set, 3 Piece**
Clip Remover Helps Remove Door Handle and Window Crank Clips.
Works on GM, Ford and others using common "C" type clip.
Upholstery and Panel Removers are designed for plastic fasteners.
35440 Body Trim Tool Set, 3 Piece. Clam Shell. Shipping wt. 1 lb. 4 oz.
35350 Door Panel Remover
35400 Door Upholstery Remover
54960 Window and Door Clip Remover

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.
18600 Window and Door Clip Remover / Installer. Skin-packed. Shipping wt. 6 oz.

61400 **Straight Hog Ring Pliers**
61410 **Angled Hog Ring Pliers**
Close Hog Ring Fasteners Used on Upholstery.
Steel pliers are durable and easy to use. Spring loaded jaws hold the hog ring. Cushioned grips for comfort. Angled Pliers have a 45° angled head to fit into tight spaces.
61400 Straight Hog Ring Pliers. Skin-packed. Shipping wt. 8 oz.
61410 Angled Hog Ring Pliers. Skin-packed. Shipping wt. 8 oz.
41250 42420 42430 Push Pin Pliers
For Easy Removal of Plastic Push Pin Type Panel Fasteners with Center Pins.
Plier tips are angled 30° - 42420 / 80° - 42430 for use in tight spaces such as wheel wells. Designed to prevent damage to the pin or anchor. Dual durometer grips for comfort.

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Included</th>
<th>Shipping wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41250 Push Pin Pliers</td>
<td>Skin packed</td>
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</tr>
<tr>
<td>42420 30° Push Pin Pliers</td>
<td>Skin Pack Card</td>
<td>8 oz.</td>
<td></td>
</tr>
<tr>
<td>42430 80° Push Pin Pliers</td>
<td>Skin Pack Card</td>
<td>8 oz.</td>
<td></td>
</tr>
</tbody>
</table>

41080 41090 Trim Clip Pliers
Easily Removes Trim Panel Fasteners.
Specially designed double tapered tips slide under the clip and grip the side of the clip, helping prevent damage. Tips are angled 45° & 90° providing more leverage for easier clip removal, even in very tight spots. Dual durometer cushioned grips for comfort.

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Included</th>
<th>Shipping wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41080 45° Trim Clip Pliers</td>
<td>Skin Pack Card</td>
<td>7 oz.</td>
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</tr>
<tr>
<td>41090 90° Trim Clip Pliers</td>
<td>Skin Pack Card</td>
<td>7 oz.</td>
<td></td>
</tr>
</tbody>
</table>

42480 Panel Clip Pliers
Spring Loaded Pliers Provides Extra Leverage to Remove Door Clips Without Damage.
Ergonomic spring loaded handles are rotated 90° to provide leverage needed to easily remove push in fasteners. The tapered forked end makes getting under the clips easier and helps prevent damage to the clips or door panel. Works on a wide range of push in clip sizes.

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Included</th>
<th>Shipping wt.</th>
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</thead>
<tbody>
<tr>
<td>42480 Panel Clip Pliers</td>
<td>Skin Pack Card</td>
<td>7 oz.</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Included</th>
<th>Shipping wt.</th>
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</thead>
<tbody>
<tr>
<td>59250 Molding Remover Set</td>
<td>Skin-packed</td>
<td>9 oz.</td>
<td></td>
</tr>
<tr>
<td>59300 3-1/2&quot; Blade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59310 2&quot; Blade</td>
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</tr>
</tbody>
</table>
68300 Trim Removal Set, 11 PC.

Designed to Remove Door Panels, Fascia and Trim Stripes, Dashboards, Interior Panels and Trim, Window Moldings, etc. in Vehicles.

Specially designed deep V-notch design for better engagement of small fasteners. Tools have multiple tip angles and sizes to work on many different applications. Made from impact resistant plastic for leverage, but will not damage vehicle surfaces. Includes a handy pouch that can be folded or hung for easy storage and access.

68300 Trim Removal Set, 11 pc. Box with Color Label. Shipping wt. 1 lb. 7 oz.

68310 Wide-Type Remover  68320 Pull-Type Remover
68330 Handy Remover  68340 Narrow-Type Remover
68350 Upholstery Clip Remover  68360 Angled Clip Panel Rmvr
68370 Fork Tip Flat Clip Rmvr  68380 Clip Panel Remover
68390 Sharp Tip Flat Clip Rmvr  68400 Panel Remover
68410 Blunt Tip Flat Clip Rmvr  68420 Black Pouch for 68300

81200 Plastic Chisel Scraper Set

Set of Three Plastic Chisels for Removing Emblems and Adhesive Backed Trim Without Damage.

The one piece high-impact plastic chisels can also be used to remove stick-on weights from aluminum wheels as well as gaskets from aluminum, without marring. The plastic blades can be resharpened as needed. The set includes 3/4", 1" and 1-1/2" blade widths. Hand guard and hang hole are built into each flexible scraper.


81210 3/4" Plastic Chisel Scraper  81220 1" Plastic Chisel Scraper
81230 1-1/2" Plastic Chisel Scraper
34920 Door Latch Release Tool
This Tool is Used to Release the Cable from the Handle Assembly So the Door Panel Can Be Removed.
The tool is designed to work on 2007-2013 Chevy and GMC pickups, Suburban, Tahoe, Avalanche and Yukon vehicles. This tool may also work on other applications.

32860 Door Handle Spring Retainer Tool for GM
Allows Outer Door Handle Replacement Without Removal of the Interior Door Panel on GM Vehicles.
Designed to prevent damage to the door components and finish. Works on 2014 and newer Yukon, Tahoe, Suburban, Silverado, Sierra, Impala and Escalade.

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.

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.

65750 Windshield Wiper Arm Remover
Makes Wiper Arm Removal and Replacement an Easy Job.
Easily removes wiper arms without damage to car finish.
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.

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.

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.

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.

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.
**57850 Battery Carrier**
Lift and Carry Batteries Safely.
Sturdy steel jaws securely hold batteries. Spring-action handle turns lifting power into battery gripping pressure. Form-fitting handle provides a solid gripping surface for your hand. Carrier works on nearly all batteries, from motorcycles to boats. Saw-tooth jaw tips provide no-slip battery gripping power. Carrier grips the battery just below the top lip for good balance. A heavy-duty tool that is built to last.

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

---

**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.

---

**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.

---

**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.

---

**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.

---

**11550 3 Way Battery Tool**
Cleans and Removes Corrosion on Battery Posts and Terminals.
Tapered reamer cleans and shapes terminal clamps. Positive and negative post cleaners are sized to fit battery posts.

11550 3 Way Battery Tool. Skin packed. Shipping wt. 5 oz.
71750 **LED QUICK CHANGE TERMINAL TOOL SET**

Lights the Work Area and Removes Wires from Terminals without Damage.

The lighted handle illuminates electrical connectors. Includes 24 quick-connect terminal disconnect tools, a sheathing ripper and a terminal pin repair tool. Compact handle uses three LR626 batteries, which are provided. A handy application cross-reference is printed in the lid of the blow molded case.

<table>
<thead>
<tr>
<th>Tool Set</th>
<th>Molded Case</th>
<th>Shipping wt. 1 lb. 3 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>71750 LED Quick Change Terminal Tool Set</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube</td>
<td>71780</td>
</tr>
<tr>
<td>Flat Blade</td>
<td>71800</td>
</tr>
<tr>
<td>Spring Loaded Tube</td>
<td>71820</td>
</tr>
<tr>
<td>Tube</td>
<td>71840</td>
</tr>
<tr>
<td>Flat Twin Blade</td>
<td>71860</td>
</tr>
<tr>
<td>Round Blade</td>
<td>71880</td>
</tr>
<tr>
<td>Knife Blade</td>
<td>71900</td>
</tr>
<tr>
<td>Flat Blade</td>
<td>71920</td>
</tr>
<tr>
<td>Flat Blade</td>
<td>71940</td>
</tr>
<tr>
<td>Single Face Blade Tool</td>
<td>71960</td>
</tr>
<tr>
<td>Single Face Blade Tool</td>
<td>71980</td>
</tr>
<tr>
<td>Knife Blade</td>
<td>72000</td>
</tr>
<tr>
<td>Repair Tool</td>
<td>72020</td>
</tr>
</tbody>
</table>

57750 **WIRE TERMINAL TOOL KIT**

Set of Three Terminal Tools and Handle for Removing Wires from Terminals Without Damage.

Terminal tools work on conventional terminals as well as Pack-Con and Weather-Pack terminals found on many GM vehicles. Blue terminal tool fits many Ford applications. The handle slips over the probes to protect the technician’s hand as well as provide extra leverage. All terminal tools are available individually skin-packed.

<table>
<thead>
<tr>
<th>Tool Kit</th>
<th>Molded Case</th>
<th>Shipping wt. 12 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>57750 Wire Terminal Tool Kit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Tool for GM</td>
<td>56500</td>
</tr>
<tr>
<td>Terminal Tool for GM</td>
<td>57780</td>
</tr>
<tr>
<td>Terminal Tool for Ford</td>
<td>57790</td>
</tr>
</tbody>
</table>

14900 **WIRE 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. 57780 fits many Ford applications.

<table>
<thead>
<tr>
<th>Tool Kit</th>
<th>Skin-packed</th>
<th>Shipping wt. 2 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14900 Wire Terminal Tool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56500 Wire Terminal Tool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>57780 Wire Terminal Tool</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
69300 MASTER RELAY AND FUSED CIRCUIT TEST KIT

Test Live Circuits from the Relay or Fuse Box. Extend the Capability of Your Digital Multimeter.

Includes eight jumpers to fit most popular relays. The jumpers have tabs for clamping and flat pads to place test leads on. Includes Test Lead Kit (see 69250 below) for easily and securely connecting Relay Test Jumpers to a multimeter. Terminal Leads with switch, fuse and power options provide easy access to check current or voltage on many fuses and relays used on vehicles today. Also allows testing of relay configurations not covered by our eight Relay Test Jumpers, like Volkswagen, BMW and other European vehicles. Relay Puller Pliers easily remove electrical relays without damage to the relay or electrical box. Works without piercing wires.

69300 Master Relay and Fused Circuit Test Kit. Molded Case. Shipping wt. 2 lbs. 2 oz.

69295 Relay Puller Pliers
56820 Yellow Jumper
56830 Red Jumper
56840 Blue Jumper
56850 Green Jumper
60620 Orange Jumper
60630 White Jumper
60640 Purple Jumper
60650 Grey Jumper

69210 Orange Banana Plug Adapter (2)
69220 Terminal to Blue Plug
69230 Terminal to Yellow Plug
69240 Y Terminal to Green Plug
69250 On/Off Switch with 4mm Stackable Banana Plugs
69270 4mm Female Banana to Alligator Clamp - 4’
69280 Red 4mm Banana to 1/4” Female Terminal
69290 Green 4mm Banana to 1/4” Male Spade
69310 Yellow 4mm Banana to 2.75mm Male Spade
69320 Blue 4mm Banana to 7.75mm Male Spade
69330 Black 4mm Banana to Stripped Wire End
69340 4mm Banana Males with Inline ATO Fuse Holder
69350 4mm Female to 4mm Male Extension - 3-1/2’

69300 Master Relay and Fused Circuit Test Kit. Molded Case. Shipping wt. 2 lbs. 2 oz.

69295 Relay Puller Pliers
56820 Yellow Jumper
56830 Red Jumper
56840 Blue Jumper
56850 Green Jumper
60620 Orange Jumper
60630 White Jumper
60640 Purple Jumper
60650 Grey Jumper

69210 Orange Banana Plug Adapter (2)
69220 Terminal to Blue Plug
69230 Terminal to Yellow Plug
69240 Y Terminal to Green Plug
69250 On/Off Switch with 4mm Stackable Banana Plugs
69270 4mm Female Banana to Alligator Clamp - 4’
69280 Red 4mm Banana to 1/4” Female Terminal
69290 Green 4mm Banana to 1/4” Male Spade
69310 Yellow 4mm Banana to 2.75mm Male Spade
69320 Blue 4mm Banana to 7.75mm Male Spade
69330 Black 4mm Banana to Stripped Wire End
69340 4mm Banana Males with Inline ATO Fuse Holder
69350 4mm Female to 4mm Male Extension - 3-1/2’

69295 Relay Puller Pliers
56820 Yellow Jumper
56830 Red Jumper
56840 Blue Jumper
56850 Green Jumper
60620 Orange Jumper
60630 White Jumper
60640 Purple Jumper
60650 Grey Jumper

69210 Orange Banana Plug Adapter (2)
69220 Terminal to Blue Plug
69230 Terminal to Yellow Plug
69240 Y Terminal to Green Plug
69250 On/Off Switch with 4mm Stackable Banana Plugs
69270 4mm Female Banana to Alligator Clamp - 4’
69280 Red 4mm Banana to 1/4” Female Terminal
69290 Green 4mm Banana to 1/4” Male Spade
69310 Yellow 4mm Banana to 2.75mm Male Spade
69320 Blue 4mm Banana to 7.75mm Male Spade
69330 Black 4mm Banana to Stripped Wire End
69340 4mm Banana Males with Inline ATO Fuse Holder
69350 4mm Female to 4mm Male Extension - 3-1/2’
**60660 Deluxe Relay Test Kit**

Includes 8 Jumpers to Fit Most Popular Relays. Also Includes Test Lead Kit and Relay Puller Pliers. Jumppers have tabs for clamping and flat pads to place test leads on. No need to pierce wires or connect multiple jumper wires. Also includes Test Lead Kit for easily and securely connecting Relay Test Jumpers to a multimeter. 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. Relay Puller Pliers easily remove electrical relays without damage to the relay or electrical box.

- 60660 Deluxe Relay Test Kit. Molded Case. Shipping wt. 1 lbs. 8 oz.
- 46950 Relay Puller Pliers 56820 Yellow Jumper 56830 Red Jumper
- 56840 Blue Jumper 56850 Green Jumper 60620 Orange Jumper
- 60630 White Jumper 60640 Purple Jumper 60650 Grey Jumper
- 69210 Orange Banana Plug Adapter (2) 69220 Terminal to Blue Plug
- 69230 Terminal to Yellow Plug 69240 Y Terminal to Green Plug

**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.

- 56810 Relay Test Jumper Kit. Molded Case. Shipping wt. 9 oz.
- 56820 Yellow Jumper 56830 Red Jumper
- 56840 Blue Jumper 56850 Green Jumper

**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.

- 60610 Relay Test Jumper Kit II. Molded Case. Shipping wt. 9 oz.
- 60620 Orange Jumper 60630 White Jumper
- 60640 Purple Jumper 60650 Grey Jumper

**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.

- 69200 Test Lead Kit for Relay Test Jumpers. Bagged. Shipping wt. 2 oz.
- 69210 Orange Banana Plug Adapter (2) 69220 Terminal to Blue Plug
- 69230 Terminal to Yellow Plug 69240 Y Terminal to Green Plug
## 82650 Multimeter Accessory Kit

Extend Multimeter Capabilities.
Interchangeable probes for a wide range of testing possibilities. Compatible with most multimeters and scopes with standard 4mm connectors. Kit includes 43” long 4mm banana test leads with straight and 90° connections, test probes, long back probes, safety test probes, crocodile clips, female-to-female adaptors, male-to-female adaptors, small alligator clip with male banana and slotted ring adapters. Includes roll-up storage pouch to keep leads and adapters organized.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>82650</td>
<td>Multimeter Accessory Kit Bag with Hang Card. Shipping wt. 12 oz.</td>
</tr>
<tr>
<td>64790 Small Gator Male, Black</td>
<td>82670 Long Probe .040, Black</td>
</tr>
<tr>
<td>82680 Long Probe .040, Red</td>
<td>82690 Test Probe 2mm, Black</td>
</tr>
<tr>
<td>82700 Test Probe 2mm, Red</td>
<td>82710 Crocodile Clip, Black</td>
</tr>
<tr>
<td>82720 Crocodile Clip, Red</td>
<td>82730 F-F Connector, Black</td>
</tr>
<tr>
<td>82740 F-F Connector, Red</td>
<td>82750 Forked Connector, Black</td>
</tr>
<tr>
<td>82760 Forked Connector, Red</td>
<td>82770 M-F Connector, Black</td>
</tr>
<tr>
<td>82780 M-F Connector, Red</td>
<td>82790 Pierce Probe 6”, Black</td>
</tr>
<tr>
<td>82800 Pierce Probe 6”, Red</td>
<td>82810 Test Lead 43”, Black</td>
</tr>
<tr>
<td>82820 Test Lead 43”, Red</td>
<td>82850 Small Gator Male, Red</td>
</tr>
<tr>
<td>82860 Roll-up Pouch, Black/Clr</td>
<td></td>
</tr>
</tbody>
</table>

## 82660 Alligator Extension Test Clip Set

A Handy Set of 6” Insulated Alligator Clips.
Connects to standard 4mm banana test leads for hard-to-reach areas such as under the dash. Strong spring action keeps jaws in contact with the test point. The clip is insulated to help prevent unintentional contact.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>82660</td>
<td>Alligator Clip 6” 2pc Set. Bag with Hang Card. Shipping wt. 3 oz.</td>
</tr>
</tbody>
</table>

## 64970 Parasitic Drain Tester

Provides an Easy Way to Connect a Multimeter to the Vehicle Electrical System to Diagnose Hidden Battery Drain.
Replaceable in-line fuses protect both the meter and tester in the event a high current source on the vehicle is left on. The multimeter is bypassed with the switch during connection in case of a power surge. The tester and meter can remain connected until other computer systems shut down, isolating the drain. As a convenience, stacking banana connectors are used on the tester. This allows voltage to be measured on various locations on the vehicle during the drain test using standard test leads.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>64970</td>
<td>Parasitic Drain Tester. Hang Card. Shipping wt. 4 oz.</td>
</tr>
</tbody>
</table>
64750 11 PC. BACK PROBE KIT

64900 17 PC. BACK PROBE KIT

Straight and Angled Back Probe Pins with Standard Banana Plug Connections.

Straight, 45°, and 90° back probe pins with 4mm standard female banana plug connectors. Angled probes for accessing hard-to-reach connectors. No need to disconnect the terminal and connector. Alligator clips with 4mm male banana connectors provide a connection to multimeter probes. The probes are fully insulated, providing added protection. 64750 contains .027 diameter pins. 64900 adds six .040 diameter pins. For use up to 30 volts.

64900 17 pc. Back Probe Kit. Clam Shell. Shipping wt. 3 oz.
64760 .027 Straight Red Probe 64770 .027 Straight Green Probe
64780 .027 Straight Yellow Probe 64790 Male 4mm Banana Alligator Clip (2)
64800 .040 Straight Blue Probe 64810 .040 Straight Black Probe
64820 .027 45° Red Probe 64830 .027 45° Green Probe
64840 .027 45° Yellow Probe 64850 .040 45° Blue Probe
64860 .040 45° Black Probe 64870 .027 90° Red Probe
64880 .027 90° Green Probe 64890 .027 90° Yellow Probe
64910 .040 90° Blue Probe 64920 .040 90° Black Probe

65150 FLEXIBLE BACK PROBES

Flexible Silicone Probe Bends up to 180° for Hard-to-Reach Areas.

Great for checking harness connectors and sensor wiring. No need to disconnect the terminal and connector. The probes are fully insulated which provides added protection. With standard 4mm female banana plug connections. For use up to 30 volts. Wire probe is .038” diameter.

65150 Flexible Back Probes. Clam shell. Shipping wt. 2 oz.
65130 Flexible Back Probe, Red (x2)
65140 Flexible Back Probe, Black (x2)

69600 TEST PROBE KIT

For Easy and Reliable Testing with Multimeters and Circuit Testers.

Includes adapter to securely connect digital circuit tester to 4mm female banana leads and probes. Also seven pairs of male and female spades to 4mm female banana test leads. A long straight back probe and piercing back probe. Spooned probe and crocodile clip.

69600 Test Probe Kit. Box with Color Label. Shipping wt. 8 oz.
69410 6.3mm Male Spade, Red 69420 6.3mm Fem Spade, Red
69430 1.5mm Male Spade, Green 69440 1.5mm Fem Spade, Green
69450 1.5mm Male Round Spade, White 69460 1.5mm Fem Round Spade, White
69470 2.5mm Male Spade, Blue 69480 2.5mm Fem Spade, Blue
69490 2.8mm Male Spade, Black 69500 2.8mm Fem Spade, Black
69510 1mm Male Spade, Gray 69520 1mm Fem Spade, Gray
69530 4.8mm Male Spade, Yellow 69540 4.8mm Fem Spade, Yellow
69550 Flexible Spooned Probe 69560 4mm Probe Adapter
69570 4mm Piercing Back Probe 82680 Long Probe .040, Red
82720 Crocodile Clip, Red
**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.

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**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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**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.

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**61030 WIRE INSERTION TOOL SET**

With a sharp point on the end and palm size handle, these tools provide extra leverage to pierce through firewalls, rubber grommets and panels. The 10-1/2" steel tube provides easy access to feed wires through the firewall. Tools are available individually.

61030 Wire Insertion Tool Set. Skin-packed. Shipping wt. 10 oz.

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**68220 SELF–ADJUSTING WIRE STRIPPER**
Automatically Adjusts to Strip Insulation from 10 to 24 Gauge Wire.

Crimps insulated and non-insulated terminals from 10 to 22 gauge and 7 to 8mm ignition terminals with a size key marked on the tool. Built in wire cutter and gripper force adjustment knob. Comfortable handles and steel construction for durability.

68220 Self-Adjust Wire Stripper. Skin packed. Shipping wt. 6 oz.
68250 68280 Compact Multi-Function Wire Stripper 14-24 & 8-14 Gauge
Cuts and Strips Insulation from 14 to 24 and 8 to 14 Gauge Wires.

68250 Crimps 14 to 24 gauge and 68280 Crimps 8-14 gauge insulated and non-insulated terminals. The pliers end grabs wire for twisting and holding. A convenient wire gauge key is marked on the tool.

68280 Multi Wire Stripper 8-14. Skin packed. Shipping wt. 6 oz.

27100 Adhesive Heat Shrink Tubing Assortment
Adhesive Coating Inside Tubing Provides Water-Resistant Seal for Insulating and Protecting Soldered Connections and Connectors.

ROHS compliant, Polyolefin heat shrink tubing. Includes 60 4" long tubes with five diameters in various colors. Also works for marking and bundling wires. Tubing is halogen free and UL & CSA certified at 600V@125°C. Shrinks at 194° - 248°F (90° - 125°C) with a radial shrink ratio of 3:1.

27270 Heat Shrink Tube 1/8" 14 Pcs.
27290 Heat Shrink Tube 1/16" 14 Pcs.
27300 Heat Shrink Tube 3/8" 8 Pcs.
27310 Heat Shrink Tube 1/2" 8 Pcs.
**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

**28830 Digital Circuit Tester 3–49V**  
Heavy-Duty Circuit Tester with Digital LCD Display to Accurately Show DC Voltage.  
Operating range of 3–49 volts DC to work on most vehicle electrical systems. Two LEDs provide a 360° visibility of polarity. The red light indicates positive polarity, green indicates negative polarity. Long, 12ft. coil cord and heavy-duty alligator clamp for secure connections. The probe is insulated to prevent the possibility of shorting the side of the probe to other components. Will not damage sensitive electronic components. Not for use on airbags.  
28830 Digital Circuit Tester 3-49V. Plastic Tube with Insert Card. Shipping wt. 8.5 oz.

**29050 Digital Circuit Tester 3–30V**  
Circuit Tester with Digital LCD Display to Accurately Show DC Voltage.  
Two LEDs provide a 360° visibility of polarity. The probe is insulated to prevent the possibility of shorting the side of the probe to other components. Computer safe. Will not damage sensitive electronic components. Not for use on airbags. Operating range 3–30 volts DC to work on most vehicle electrical systems. 47” cord and heavy-duty alligator clamp for secure connections.  
29050 Digital Circuit Tester 3-30V. Skin Pack Card. Shipping wt. 5 oz.

**27430 24 Volt Heavy-Duty Circuit Tester**  
Quickly Tests Voltage up to 28 Volts.  
Works on any circuit up to 28 volts including many heavy duty applications on large trucks and farm implements. Heavy duty probe, cord and clamp. The probe is insulated with high-visibility shrink tubing to prevent the possibility of shorting the side of the probe to other components. Comes with a strain relief spring on the cord.  
27430 24 Volt Heavy-Duty Circuit Tester. Skin-packed. Shipping wt. 8 oz.  
27460 24 Volt 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
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

---

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

---

26330 **LED Continuity Tester**
Checks the Ability of Wires, Fuses, Switches or other Electrical Circuits to Carry Current.
Clip lead to end of the wire in question. Probe the other end of the wire. If the bulb lights up, continuity exists. If the bulb fails to light, the circuit is open. Incidental contact with 12V supply will not burn out LED bulb. Not a circuit tester. Do not use on live circuits. Includes one A23 battery.

26330 LED Continuity Tester. Skin Pack Card. Shipping wt. 3 oz.

---

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.

19370 High End Bulb

26270 Low End 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

---

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
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.

67800 67900 Spark Plug Gappers
For Standard and Electronic Ignitions.
67800 for standard ignition. 67900 for electronic ignition.
67900 Electronic Ignition Spark Plug Gapper. Skin-packed. Shipping wt. 2 oz.

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.
68100 Deluxe Feeler Gauge. Skin-packed. Shipping wt. 5 oz.

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.
68000 Mini Feeler Gauge. Skin-packed. Shipping wt. 1 oz.
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.

<table>
<thead>
<tr>
<th>Blade Sizes</th>
<th>Inches</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>.002</td>
<td>.051</td>
<td></td>
</tr>
<tr>
<td>.003</td>
<td>.076</td>
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<tr>
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<td>.006</td>
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<tr>
<td>.008</td>
<td>.203</td>
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<td>.011</td>
<td>.279</td>
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<tr>
<td>.014</td>
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<tr>
<td>.016</td>
<td>.406</td>
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<tr>
<td>.018</td>
<td>.457</td>
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<td>.020</td>
<td>.508</td>
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<tr>
<td>.022</td>
<td>.559</td>
<td></td>
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<tr>
<td>.025</td>
<td>.635</td>
<td></td>
</tr>
</tbody>
</table>

67950 Standard Feeler Gauge. Skin-packed. Shipping wt. 3 oz.

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68050 **VALUE 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.

<table>
<thead>
<tr>
<th>Blade Sizes</th>
<th>Inches</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>.008</td>
<td>.203</td>
<td></td>
</tr>
<tr>
<td>.010</td>
<td>.254</td>
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<tr>
<td>.012</td>
<td>.305</td>
<td></td>
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<td>.013</td>
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<td>.015</td>
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<td>.019</td>
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<tr>
<td>.020</td>
<td>.508</td>
<td></td>
</tr>
<tr>
<td>.026</td>
<td>.660</td>
<td></td>
</tr>
</tbody>
</table>

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

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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.

<table>
<thead>
<tr>
<th>Blade Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>.004 to .027</td>
</tr>
</tbody>
</table>

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.
28 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, Black. Hang Card. Shipping wt. 2 lbs. 3 oz.

40120 40130 1/4" MAGNETIC SOCKET HOLDERS
Organizes 1/4" Fractional & Metric Sockets.
26 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, & 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, Black. Hang Card. Shipping wt. 1 lb. 3 oz.

40900 40990 1/2" MAGNETIC SOCKET HOLDERS
Organizes 1/2" Chrome & Impact Sockets.
22 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, Black. 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.

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.

67300 MULTI-POSITION MAGNETIC NUT CUP
Strong Magnetic Base that Attaches Securely to Vehicles, Tool Boxes, Bins, Hoists and any Other Ferrous Metal Object.
The magnet has a coating to protect work surfaces and is oil and fuel resistant. Angled cup design allows positioning vertically, horizontally, or any angle in between. The 6" diameter cup is made of ABS plastic for durability. The strong magnet can hold up to 5 lbs. in a vertical position.

67300 Multi-Pos Mag Cup. Box with Color Label. Shipping wt. 1 lb.
**40460 40490 Pliers & Wrench Racks**

Keeps Toolboxes Neat and Organized.

By holding pliers and wrenches vertically, tools take up less space in the toolbox while keeping them easy to identify, locate and grab. Thirteen slots hold various shapes and sizes of wrenches and pliers. Ten 5/8" wide slots for narrow tools and three 7/8" wide slots for larger tools. Only 1-5/8" tall. Specially designed slot allows thinner pliers and wrenches to remain vertical. Made of durable molded plastic.

---

**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.

---

**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.

---

**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".

---
31000 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.
66500 Telescoping Magnetic Pocket Pick-Up. Skin-packed. Shipping wt. 2 oz.

66540 Mini Flexible Magnetic Pick Up Tool
Super Strong Neodymium Magnet Picks Up All Ferrous Metal Objects Up to 2 lbs. Adjustable telescoping action extends from 4-1/2” to 13” with a 2-1/2” flexible segment to get into tight spots.

66540 Mini Flexible Magnetic Pick Up Tool. Skin-packed. Shipping wt. 2 oz.

66580 Flexible 23-1/2" Magnetic Pick-Up Tool
Adjustable Telescoping Action Extends from 5-3/8” to 23-1/2” with a 3-1/2” Flexible Segment that Holds Its Shape. Super strong neodymium magnet picks up all ferrous metal objects up to 2.5 lbs.

66580 Heavy-Duty Flexible Magnetic Pick-Up Tool. Skin Packed. Shipping wt. 2 oz.

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.

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.
61090 61110 61130 Diesel Filter Wrenches for Davco

Specially Designed Wrenches for Removing and Replacing the Main Filter Collar as well as the Vent Cap on Davco Aftermarket Diesel Fuel Filter Systems.

- 5", 6" and 8" wrenches with a unique half-moon design provide easier access to the fuel filter.
- High strength steel prevents the wrench from flexing while loosening stubborn filter collars.
- Four teeth grab the vent cap securely to prevent damage. Thick padded grip cushions your hand.

61090 5" Diesel Filter Wrench for Davco. Color Label. Shipping wt. 1 lb. 2 oz.
61110 6" Diesel Filter Wrench for Davco. Color Label. Shipping wt. 1 lb. 4 oz.

61060 Diesel Filter Wrench for Paccar

All Metal Wrench to Remove and Install Bowls on Newer Paccar Chassis Mounted Fuel Filter Assemblies.

- Half-moon design allows easier access to the fuel filter found on Kenworth, Peterbilt and Cummins diesels.
- Laser-cut steel provides strength to loosen even the toughest bowls.
- Thick padded grip for comfort.


60200 Heavy Duty Strap Filter Wrench

A Heavy-Duty Heat Treated Alloy Steel Yoke and Strong Web Strap.

- Use with 1/2" drive to remove or install filters and other objects up to 6-1/2" in diameter. 3-5/8" long yoke fits into tight areas.

60200 Heavy Duty Strap Filter Wrench. Skin-packed. Shipping wt. 8 oz.

61900 Heavy Duty Bearing Race & Seal Driver Set

Fits Most Class 8 Over the Road Trucks and Trailers and Some Medium Duty Trucks.

- Use the tapered driver side for bearing races and the flat side for seals.
- Includes six drivers and handle extension for driving bearing races and seals on hubs with deep brake drums without removing the drums.
- For applications that do not need the length of the two-piece handle, use only the handle with the solid end.
- Use the included hardened washer between the driver and handle to protect the aluminum driver.

61900 Heavy Duty Bearing Race & Seal Driver Set. Molded Case. Shipping wt. 9 lbs. 8 oz.

61850 Truck Hub Seal Installer Kit

Fits the Most Popular Size Seals for Class 7 and Class 8 Over the Road Trucks and Trailers and Some Medium Duty Trucks.

- The driver is designed to hold the seals to make installation easier. Includes five drivers and handle extension for extra reach for driving seals on hubs with deep brake drums without removing the drums.

61850 Truck Hub Seal Installer Kit. Molded Case. Shipping wt. 9 lbs. 13 oz.
### 69700 69900 Turbo Air System Test Kits

Helps Locate Air Leaks in Turbo System Components by Plugging the Output Side of the Turbo and the Intake Inlet.

Air is applied through one adapter to show the presence of leaks within the system. Features a pressure gauge, shut off valve and pressure regulator and includes pairs of stepped adapters to fit most turbo systems on Class 7 and 8 trucks. Can also be used on some cooling system hoses.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>69700 Turbo Air System Test Kit</td>
<td>13 pc. Molded Case</td>
<td>Shipping wt. 8 lbs. 12 oz.</td>
<td></td>
</tr>
<tr>
<td>69900 Turbo Air System Test Kit</td>
<td>9 pc. Molded Case</td>
<td>Shipping wt. 9 lbs.</td>
<td></td>
</tr>
<tr>
<td>69710 31/38mm Plugged Adapter</td>
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<td></td>
<td></td>
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<tr>
<td>69720 31/38mm Air Fitting Adapter</td>
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<td></td>
<td></td>
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<tr>
<td>69730 46/51mm Plugged Adapter</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>69740 46/51mm Air Fitting Adapter</td>
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<td>69750 55/60mm Plugged Adapter</td>
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<td>69760 55/60mm Air Fitting Adapter</td>
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<td>69780 65/70mm Air Fitting Adapter</td>
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<tr>
<td>69790 75/80mm Plugged Adapter</td>
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<tr>
<td>69800 75/80mm Air Fitting Adapter</td>
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<tr>
<td>69810 85/90mm Plugged Adapter</td>
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<tr>
<td>69820 85/90mm Air Fitting Adapter</td>
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<tr>
<td>69850 95/100mm Plugged Adapter</td>
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<tr>
<td>69860 95/100mm Air Fitting Adapter</td>
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<tr>
<td>69870 105/110mm Plugged Adapter</td>
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<tr>
<td>69880 105/110mm Air Fitting Adapter</td>
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<td></td>
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<tr>
<td>69840 Air Regulator Hose and Gauge</td>
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</tr>
</tbody>
</table>

### 19852 Truck & Trailer Wheel Pan

Catches Oil from Wheel Hubs After Removing Cap.


<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>19852 Truck &amp; Trailer Wheel Pan</td>
<td>8 per Master Pack</td>
<td>Shipping wt. 5 lbs. 12 oz.</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>49000 Truck Spring Cage Bolt Socket</td>
<td>Skin-packed</td>
<td>Shipping wt.12 oz.</td>
</tr>
</tbody>
</table>
59600 **DEUTSCH TERMINAL TOOL**
Works on OEM Electrical Connectors Used on Trucks and Equipment Such as Caterpillar, Kenworth, Peterbilt, Freightliner, Mack & More.
Also used on some Harley Davidson and industrial equipment connectors. Slotted tubes are made from stainless steel which is more durable than plastic. Built in a convenient “spider” design so the most popular sizes are always available. To use, slide appropriate size slotted tube over wire. Push the tool into the grommet, bottoming out the tool on the terminal. DO NOT TWIST THE TOOL. Pull the wire-terminal out of the connector.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>28870</td>
<td>Truck Anchor Pin Bushing Driver</td>
<td>2 lbs. 2 oz.</td>
</tr>
<tr>
<td>28900</td>
<td>Driver</td>
<td>Skin Packed</td>
</tr>
<tr>
<td>28910</td>
<td>Remover Cone</td>
<td></td>
</tr>
<tr>
<td>28920</td>
<td>Installer Cone</td>
<td>41470 Extension</td>
</tr>
</tbody>
</table>

45980 Replacement Rubber Tip

28870 Truck Anchor Pin Bushing Driver. Skin-packed. Shipping wt. 2 lbs. 2 oz.

26890 **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. Also removes truck leaf spring bushings.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>28890</td>
<td>Truck Anchor Pin Bushing Driver</td>
<td>1 lb. 2 oz.</td>
</tr>
<tr>
<td>28900</td>
<td>Driver</td>
<td>Skin-packed</td>
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<tr>
<td>28910</td>
<td>Remover Cone</td>
<td></td>
</tr>
<tr>
<td>28920</td>
<td>Installer Cone</td>
<td></td>
</tr>
</tbody>
</table>

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".

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>21520</td>
<td>Truck Pedal Depressor</td>
<td>2 lbs. 4 oz.</td>
</tr>
<tr>
<td>45980</td>
<td>Replacement Rubber Tip</td>
<td></td>
</tr>
</tbody>
</table>

21520 Truck Pedal Depressor. Skin-packed. Shipping wt. 2 lbs 4 oz.

59600 Deutsch Terminal Tool. Skin-packed. Shipping wt. 2 oz.
52600 ABRASIVE PAD SCRAPER
The 30° Angle Provides Extra Leverage when Cleaning Gasket Surfaces.
Pad wraps around the end of the tool to reach into tight corners and can be repositioned on the tool as it wears. Comes with three quickly and easily replaceable 1” x 4” medium grit pads.
52600 Abrasive Pad Scraper. Skin-packed. Shipping wt. 7 oz.
52640 Abrasive Pad

52000 RAZOR BLADE SCRAPER
Designed to Reach 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.
52000 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.

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.

LOCKS IN THREE DIFFERENT POSITIONS

52150 100 PACK OF RAZOR BLADES
Convenient Pack of Standard Razor Blades.
Contains 100 stainless steel, single edged razor blades. Pack is resealable for storage. Fits all standard razor blade tools, including Lisle 52000 Razor Blade Scraper.

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.

51120 51130 51140
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>51120</td>
<td>Six 1” blades</td>
</tr>
<tr>
<td>51130</td>
<td>Six 1-1/2” blades</td>
</tr>
<tr>
<td>51140</td>
<td>Six 2” blades</td>
</tr>
</tbody>
</table>

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. 3 oz.
### 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>31130</td>
<td>Long Bar</td>
</tr>
<tr>
<td>31370</td>
<td>3/16” Adapter</td>
</tr>
<tr>
<td>31390</td>
<td>5/16” Adapter</td>
</tr>
</tbody>
</table>

U.S. Pat No. 6,199,421

### 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>31180</td>
<td>3/8” Adapter</td>
</tr>
<tr>
<td>31370</td>
<td>3/16” Adapter</td>
</tr>
<tr>
<td>31380</td>
<td>1/4” Adapter</td>
</tr>
<tr>
<td>31390</td>
<td>5/16” Adapter</td>
</tr>
<tr>
<td>31410</td>
<td>1/2” 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>44070</td>
<td>1/4” Tubing Bender Pliers</td>
</tr>
<tr>
<td>44070</td>
<td>1/4” Tubing Bender Pliers</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>50050</td>
<td>Replacement Cutter</td>
</tr>
</tbody>
</table>
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.

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

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. 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. 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.

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.
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.

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.

67000 Master Line Stopper Set
For Internal and External Lines.
The set includes four stoppers to seal lines in automotive flare type steel brake lines, power steering and transmission cooler lines. Two line clamp pliers 6-1/4" and 7-1/4" in length seal flexible brake lines, fuel and vacuum lines. Smooth rounded edges will not damage internal hose reinforcement. Eight stoppers and four caps are used for plugging vacuum and fuel lines. Stepped design can be used for both internal and external lines. Stopper sizes from 1/8" through 1/2". Caps are 5/8" and 3/4" for larger lines.

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.

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**
Work 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.

**44870 Universal Lift Support Clamp**
Holds Weak Gas Charged Lift Supports Open.
The 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.

**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.

**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. Includes 19mm socket for Honda and Toyota applications.

59000 Ratcheting Serpentine Belt Tool. Skin-packed. Shipping wt. 2 lbs. 10 oz.
70500 **TapSocket 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. 1 oz.

1/4" DRIVE

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70500 SET INCLUDES:

<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>#1,2,3,4,5,6,8</td>
<td>1.8, 1.6, 2, 3, 3.5, 3.6mm</td>
<td>1.110</td>
<td></td>
</tr>
<tr>
<td>70540</td>
<td>#8</td>
<td>4mm</td>
<td>1.131</td>
<td></td>
</tr>
<tr>
<td>70580</td>
<td>#10</td>
<td>4.5, 5mm</td>
<td>1.152</td>
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<tr>
<td>70600</td>
<td>1/4&quot;</td>
<td>6, 6.3mm</td>
<td>1.191</td>
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<tr>
<td>70620</td>
<td>5/16&quot;, 7/16&quot;</td>
<td>7, 8mm</td>
<td>1.242</td>
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<tr>
<td>70640</td>
<td>3/8&quot;</td>
<td>10mm</td>
<td>1.286</td>
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</tr>
<tr>
<td>70660</td>
<td>1/8&quot; NPT</td>
<td>12, 12.5mm</td>
<td>.328</td>
<td></td>
</tr>
</tbody>
</table>

3/8" DRIVE

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70940 **Tap Socket Set**  
Three Larger Sizes in a Convenient 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.

1/2" DRIVE

---

70940 SET INCLUDES:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fits In.</th>
<th>Fits Metric</th>
<th>Shank Dia.</th>
<th>Sq. Size</th>
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<tbody>
<tr>
<td>70680</td>
<td>5/8&quot;</td>
<td>16mm</td>
<td>.360</td>
<td></td>
</tr>
<tr>
<td>70880</td>
<td>11/16&quot;</td>
<td>18mm</td>
<td>.408</td>
<td></td>
</tr>
<tr>
<td>70900</td>
<td>3/4&quot;</td>
<td>------------</td>
<td>.442</td>
<td></td>
</tr>
</tbody>
</table>

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 but can be disconnected for easier storage.

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

48770 Replacement Rubber Tip

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11770 **Radio Remover**  
Disengages Retaining Clips on Fords and Imports.  
Tool quickly releases and locks into retaining clips on radios. Also works on some Saab, VW, Audi, and other import applications. Set also serves as handles for removing the radio from the panel. Also works on some DIN mountings found on import vehicles.


---

11750 **Clutch Coupling Remover for Ford**  
Disconnects Ford Hydraulic Clutch Lines.  
Easily disengages the hydraulic clutch line from the clutch slave cylinder on some Ford manual transmissions. Tool prongs fit around clutch line above nylon sleeve.

11750 Clutch Coupling Remover for Ford. 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

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**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.

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**31800SCRIBE**

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.

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**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.

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**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.

---
**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.

<table>
<thead>
<tr>
<th>35900 LED Flexible Flashlight</th>
<th>Skin-packed</th>
<th>Shipping wt. 2 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>35910 Replacement Bulb Assembly</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**70440 FLEXIBLE HOLDER WITH MAGNETIC BASE**

The Flexible, Magnetic Holder Allows 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 will hold a variety of flashlight diameters.

<table>
<thead>
<tr>
<th>70440 Flexible Holder with Magnetic Base</th>
<th>Mini Pouch</th>
<th>Shipping wt. 5 oz.</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>48890 1” Bar</th>
<th>Shipping wt. 2 lbs. 8 oz.</th>
<th>48900 3” Bar</th>
<th>Shipping wt. 3 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>48910 6” Bar</td>
<td>Shipping wt. 3 lbs. 4 oz.</td>
<td>48920 9” Bar</td>
<td>Shipping wt. 3 lbs. 8 oz.</td>
</tr>
<tr>
<td>48930 12” Bar</td>
<td>Shipping wt. 3 lbs. 14 oz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>47540 Bag of 30 Bar Hooks</td>
<td>Shipping wt. 1 lb. 8 oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>48160 Stocking Tags</th>
<th>100 per pad.</th>
</tr>
</thead>
</table>

**57160 SWIVEL-GRIPPER™ 9 PACK**

A Handy Merchandiser that Comes with Nine Swivel-Gripper “No-Slip” Filter Wrenches.

Allows users to feel the texture coating on the inside of the wrench band. Individual Swivel-Gripper filter wrenches can be ordered to refill the display as needed. All four wrench sizes are included.

<table>
<thead>
<tr>
<th>57160 Swivel Gripper 9 Pack</th>
<th>Boxed</th>
<th>Shipping wt. 6 lbs. 3 oz.</th>
</tr>
</thead>
</table>
47120 **ROTARY WATERFALL DISPLAY**

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

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

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

---

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.

---

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.
LOW PROFILE PLASTIC CREEPERS

The Best Plastic Creeper on the Market.

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", Width17-1/2", Height 4".

92102 Red Plastic Creeper, Boxed. Shipping wt. 11 lbs. 8 oz.
93102 Yellow Plastic Creeper, Boxed. Shipping wt. 11 lbs. 8 oz.
94102 Blue Plastic Creeper, Boxed. Shipping wt. 11 lbs. 8 oz.
97102 Black Plastic Creeper, Boxed. Shipping wt. 11 lbs. 8 oz.
93202 Orange Plastic Creeper, Boxed. Shipping wt. 11 lbs. 8 oz.
99102 Green Plastic Creeper, Boxed. Shipping wt. 11 lbs. 8 oz.
93602 Pink Plastic Creeper, Boxed. Shipping wt. 11 lbs. 8 oz.
92132 2" Pop-in Wheel for Plastic Creeper
96412 Headrest

92102 93102 93202 93602
94102 97102 99102
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.
96572 4" Pop-in Wheel
96412 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.

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.

92132 2" Pop-in Wheel for Plastic Creepers. Shipping wt. 6 oz.
96132 Wheel for Steel Creepers. Shipping wt. 6 oz.
96142 Cap Nut for 96132. Shipping wt. 1 oz.
96422 Wheel for Plastic Creepers. Shipping wt. 6 oz.
96552 Cap Nut for 96422. Shipping wt. 1 oz.
96572 Large Creeper Wheels. Shipping wt. 1 lb.
97112 Wheel with Bracket for Wood Creepers. Shipping wt. 6 oz.
99702 3" Steel Roller for Wooden Creepers. Shipping wt. 9 oz.

96132 REPLACEMENT WHEELS FOR LOW PROFILE STEEL CREEPERS
Includes cap nut. Specifications:
Wheel, 2" dia.
Overall Height, 2-1/2"

96422 REPLACEMENT WHEELS FOR LOW PROFILE PLASTIC CREEPERS
Includes cap nut. Specifications:
Wheel, 2" dia.
Overall Height, 2-1/2"

96572 4" Pop-in Wheel
96412 Headrest

NOTE: You can interchange or retrofit your conventional Lisle plastic creeper with six 96572 4" rollers.
U.S. Pat No. 6,345,828

99802 ENGINEERING PLASTIC ROLLER
Specifications:
Bracket, -
1-9/16" x 2-1/4"
Roller, 2-3/4" dia.
Overall Height, 2-3/4"

99702 ROLLER
Specifications:
Bracket, - 1-1/2" x 2"
Overall Height, 3"
For all plastic models.

92132 POP-IN WHEEL FOR PLASTIC CREEPERS
Specifications:
Wheel, 2" dia.
Overall Height, 2-3/4"

96572 LARGE POP-IN WHEEL FOR PLASTIC CREEPERS
Specifications:
Wheel, 4" dia.
Overall Height, 4-3/4"

For models 92032 93032 94032 or retrofit models 92102, 93102 & 94102.
19342 Multi-Application Oil Funnel

Helps Eliminate Oil Spills when Refilling Crankcases, Especially Those with Baffle Valve Covers.

The 1.6 qt. translucent funnel comes with seven different color-coded adapters and a 45° elbow to work on many applications and save valuable storage space. Use spout only as a standard funnel. The adapters fit crankcases securely. Tethered lid and cap keep the funnel clean.

19352 GM/Ford Adapt, Black
19362 Ford/Mazda Adapt, Blue
19372 Toyota/Lexus Adapt, Yellow
19382 Honda/Acura/Nissan Adapt, Green
19392 VW/Audi Adapt, Maroon
19402 Chrysler Adapt, Purple
19412 Toyota/Lexus Adapt, Orange
19422 Straight Adapt, Clear
19432 Elbow 45°
19532 Tethered Cap, Red
19682 Ring Adapt, Black

17252 Transaxle Funnel with Extension

1.6 Qt. Translucent Funnel with 18” Clear Spout to Work On Hard-To-Reach Automatic Transmission Fill Plugs.

The nozzle adapter can be used on vehicles without fill plugs by removing the speed sensor. Nozzle adapter can also be used to fill through dipstick tubes. Works great on Hondas. May also work on other applications. Tethered lid and spout cap keep funnel clean and help prevent messes.

17252 Transaxle Funnel with Extension. Box w/ Label. Shipping wt. 1 lbs. 1 oz.
17262 Lower Tube Extension
17272 Upper Tube Extension
18252 Nozzle
18832 Funnel Body
19682 Tethered Lid, Black
19692 Spout Cap, Black
19422 Straight Adapter Clear
18232 Offset Funnel with Spout Cap and Lid
17232 Right Angle Funnel
10" Tall Translucent Funnel with a 6-3/4" Offset from Center of Mouth to Center of Spout for Hard-to-Reach Applications.
Useful for adding brake fluid to master cylinders on mini-vans, adding gear lube to differentials, filling the DEF reservoir on GM Duramax diesels as well as other applications.

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.

19832 1.6 qt. Plastic Funnel with Lid & Spout Cap
Handy 1.6 qt. Polypropylene Funnel has a Removable 9" Flexible Spout and Narrow Design for Hard-to-Reach Applications.
Includes a lid and spout cap to keep contaminants out. A 4" opening for the lid creates a lip to prevent excess fluid from dripping out of the top when the funnel is laid down after use. Translucent material allows the technician to see the fluid inside the funnel.
**11102 8 GALLON OIL LIFT DRAIN**

Quick Release Height Adjustment.

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

- **11102 8 Gallon Oil Lift Drain.** Boxed. Shipping wt. 16 lbs.
- **11052 Spout Cap**
- **11402 Top Tube, Plated**
- **11512 Tube Lock Ring**
- **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**
- **11502 Bottom Tube, Black**
- **11512 Tube Lock Ring**
- **17402 Cap**

**17892 17902 TRANSMISSION DRAIN FUNNELS**

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

- **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.
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 19662 Lid
19692 Spout Cap

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 Showroom Floors, Garages, Carports, or Under Equipment.
Made of durable polyethylene material to assure longevity and flexibility. Holds 8 quarts. Dimensions are 24" x 36" x 1-1/2".

19722 Catch-All Drip Pan, 12 per Master Pack. Shipping wt. 27 lbs.
19742 White Spout & Threaded Collar
19682 Lid
19692 Spout Cap

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.

19772 1 Quart Spray Bottle, 1 per Pack. Shipping wt. 4 oz.
32 per Master Pack. Shipping wt. 10 lbs. 15 oz.
**17942 17952 4.5 GAL. 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.

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**17922 MULTI-DRAIN TUB**
30 Quart, Heavy-Duty, All-Purpose Plastic Drain Tub.
For draining radiators, crankcases, transmissions, differentials, etc. on cars and trucks. Designed for easy pouring and disposal. The apron facilitates washing and sorting parts. Dimensions 33" x 22" x 8".

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

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**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.

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**19202 LOW PROFILE TRUCK DRAIN WITH LID**
For Large Capacity Crank Cases or Radiator Systems.
Overall height of 7-1/2" to fit under more aerodynamic trucks. The drain holds 60 quarts and is equipped with four rollers and a handle for transport and easy positioning under trucks. Cover and curved side design help keep oil from spilling during movement. Convenient handles and pour spout facilitate oil evacuation.

19202 Truck Drain with Lid. Boxed. Shipping wt. 26 lbs.
19192 Truck Drain Cover

SUPERSEDES 19122

U.S. Pat No. 6,874,549
19852 TRUCK & TRAILER WHEEL PAN
Catches Oil from Wheel Hubs After Removing Cap.

13950 WHEEL STUD PILOT PIN SET
Easily Remove and Install Wheels on Many European Vehicles with Lug Bolts.
Three pairs of metric threaded wheel stud pilot pins allow you to hang the wheel without having to balance the wheel on the small lip of the hub. This helps prevent the wheel from falling and causing damage or injury. Simply insert threaded pins into hub bolt holes to hold the wheel in place while inserting or removing lugs. Set includes 12mm x 1.5, 14mm x 1.25 and 14mm x 1.5 threaded pins. Also available individually.

13970 12MM X 1.25 WHEEL STUD PILOT PINS
Easily Remove and Install Wheels on Fiat 500 and Dodge Dart Cars with Lug Bolts.
Wheel stud pilot pins allow you to hang the wheel without having to balance the wheel on the small lip of the hub. This helps prevent the wheel from falling and causing damage or injury. Simply insert threaded pins into hub bolt holes to hold the wheel in place while inserting or removing lugs. Works on 2013 and newer Dodge Dart and 2012 and newer Fiat 500 cars with 12mm x 1.25 metric lug bolts.
**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.

- 22800 Wheel Stud Installer. Clam Shell. Shipping wt. 5 oz.
- 22820 Replacement Bearing & Dust Shield

**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.

- 28950 Truck Wheel Stud Installer. Clam Shell. Shipping wt. 9 oz.
- 28970 Replacement Bearing and Dust Shield

**17282 Fluid Extractor / Transfer Pump**
Works for Transferring or Siphoning All Types of Automotive Fluid.
Quickly removes transmission oil from automatic transmissions that are over filled. Also works great for adding oil to differentials. Translucent 1.1 Quart / 1.1 Liter capacity cylinder body is marked in both English and metric. Includes two valves; a shut off valve for transferring fluids and a siphon valve with intake and discharge hoses, ideal for removing coolant. Disassembles for easy cleaning, enabling use with multiple fluids. High quality seals stand up to caustic fluids.

- 17282 Fluid Extractor / Transfer Pump. Box w/ Label. Shipping wt. 2 lbs. 3 oz.
- 17292 Replacement Seal Kit (2 Seals)
- 17302 Plastic Pump
- 17312 Extractor Adapter and Hose
- 17322 Transfer Adapter and Hoses

**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.
**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.

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**14100 Valve Core Tool**

Removes and Installs Valve Cores and Valve Core Caps.

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

14100 Valve Core Tool. Skin-packed. Shipping weight 1 oz.

14110 Core Driver

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**18810 Valve Core Torque Tool**

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

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

18810 Valve Core Torque Tool. Skin-packed. Shipping wt. 4 oz.

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**15190 Valve Core Tool**

Heat-Treated Steel Tip for Removing and Installing Standard Valve Cores.

A dual durometer handle for comfort with a rotating knob on the end allowing the tool to turn smoothly while applying pressure with the palm of your hand. The 5.7" long tool can reach valve stems on the inner dual wheels. Includes a handy pocket clip.

15190 Valve Core Tool. Skin Packed. Shipping wt. 2 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 or fill out a request form on our website: www.lislecorp.com/about/program
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.

I.D.A. Program
Lisle Corporation
807 E. Main Street
PO Box 89
Clarinda, Iowa USA 51632-0089

www.lislecorp.com/about/program

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.

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 Valve 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.