



# Specialty Tool Roundup

PART ONE

How many of you belong to the Secret Order of the Bent Wrench? Many of you, I suspect. I've worked with technicians who had whole tool box drawers filled with specially modified wrenches and other hand-made problem solving tools. Somewhere along the way, most of us have had to creatively bend, spindle, or mutilate our tools to finish some particularly frustrating job.

The need for these "specialty tools" only seems to grow as automotive complexity increases. It's enough to make even the most inventive Secret Order of the Bent Wrench member throw up his hands in surrender.

This month we'll present an assortment of specialty hand tools that were designed to answer these tough automotive tool questions. We'll follow up next month with a second assortment of tools. Many were designed specifically for import applications, while others have a broader appeal. A few are so simple that you may wonder why you didn't think of them first.

The manufacturers of many of the tools we'll list in these articles manufacture complete lines of specialty tools. Our purpose here is to give you a sampling of their wares. Use the circle number provided after each entry to receive more information about the tools that interest you.

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### BOSCH RELAY PLIERS



Schley Products' 90100 (bent tip) and 90110 (straight tip) Relay Pliers simplify the removal and installation of Bosch-type relays. These relays are often located in confined areas, making them difficult to reach. They may also be grouped close together, leaving limited room between them for hand removal. Both pliers have specially coated tips which firmly grip the corners of the relay. Relays can be removed and installed without damage to the relay or nearby components.

Schley Products Inc.

Circle No. 201

### BELT TENSION GAUGE



Proper drive belt tension is necessary to ensure quiet operation and maximum belt and bearing life. Borroughs Automotive Tools and Equipment offers a complete line of belt tension gauges, including the BT-33-73F shown here. This tool is calibrated for A-section V-belts as well as K-section poly V-belts, and covers a belt tension range between 130 and 800 Newtons (30-180 pounds). Timing belt tension gauges, as well as other tension gauges for specialized uses, are also available from Burroughs.

Borroughs Automotive Tools and Equipment

Circle No. 202

### I-C-IT REFERENCE CLIPS



These I-C-It Reference Clips from Matco Tools provide an easy way to remind yourself where to attach wires, hoses, fittings, or other parts during complicated disassembly and reassembly jobs. Attach one clip to the part being removed, then attach its mate to the proper reinstallation location. The clips can also be used to hold wires and hoses out of the way during other service procedures. The set includes 18 pairs of color and number coded clips along with a magnetic storage rack for tool box storage.

Matco Tools

Circle No. 203

### VALVE SPRING COMPRESSOR



Removing and replacing valves and springs on cylinder heads equipped with overhead cams can be difficult. In some cases, C-clamp style compressors will not clear obstructions found on these cylinder heads. Easco/KD Tools' Universal Fulcrum Rail mounts to the cylinder head. The matching Valve Spring Compressor then uses the rail for leverage to remove the valves and springs. Adapters included with the fulcrum rail allow installation on many cylinder head designs.

Easco/KD Tools

Circle No. 204

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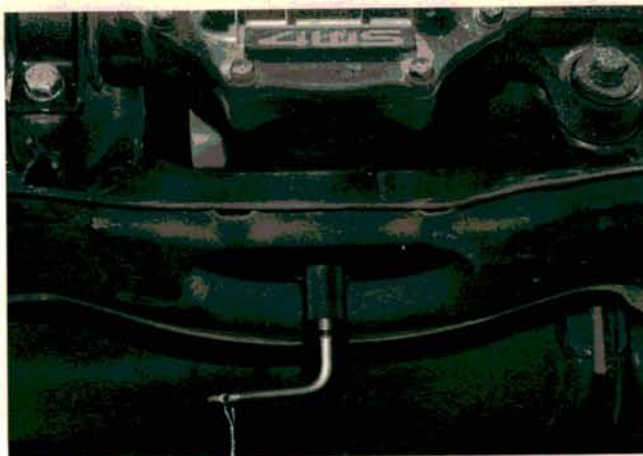
### WHEEL MOUNTING TOOL SETS



These specialty wheel mounting studs from Snap-on will help you hold and align the wheel to the bolt holes on vehicles equipped with lug bolts. Thread both studs into the hub opposite one another. Then slide the wheel over the studs to align and support the wheel while the lug bolts are threaded into place. Now remove the wheel mounting studs using a six point socket. Thread the remaining lug bolts into place, then torque all bolts to factory specifications. 12 and 14 mm mounting studs are available.

Snap-on Tools **Circle No. 205**

### HONDA FOUR WHEEL STEERING TOOL



This Honda Four Wheel Steering Tool from Specialty Products Company is required for proper four wheel alignment on all 1988 and later Honda Preludes equipped with four wheel steering. The number 88444 tool is installed in the rear steering gear box to lock the steering gear in its centered position during rear wheel toe adjustments. Specialty Products also manufactures a complete line of wheel alignment tools, equipment, and parts for import and domestic cars and trucks.

Specialty Products Company **Circle No. 206**

### CLUTCH ALIGNMENT TOOL



The model 6200 Clutch Alignment Tool from Assenmacher Specialty Tools assures proper clutch disc alignment during clutch service work on virtually all manual transmission vehicles. Two clutch mandrels supplied with the 6200 allow precise alignment of all clutch discs with internal spline diameters between 17.75 and 30 mm. Once assembled, the 6200 holds the clutch disc and pressure plate in proper alignment until clutch installation is complete. After installation, the tool can be easily removed.

Assenmacher Specialty Tools **Circle No. 207**