

Get Your Car 'Zapped' Into Shape

"Zap guns" and "magic wands" may seem as far apart as cosmonauts and Camelot, but both soon will be making a contribution to easier and improved car care.

The "zap gun" in reality is an ultrasonic water and air leak detector and the "magic wand" is a body electrical system analyzer. They bring to the automotive service business new diagnostic concepts and were developed by Ford Motor Company research teams.

The portable leak detector allows a service technician to locate a leak, repair it, and then quickly check to make sure it has been done correctly.

A BATTERY-OPERATED electronic transmitter is placed inside the body compartment or the car trunk. The unit fills the enclosure with ultrasonic energy that will force its way out through any gap that is large enough to permit an air or water leak.

The operator moves a detector "gun" outside the car window and door openings, and a meter on the gun indicates the exact spot of the leak. After repairs, moving the gun over the same spot can assure the service technician that he's done the job properly.

THE ELECTRICAL system analyzer also is portable. With a very simple connection, a service technician can quickly:

1. Determine if a problem is electrical or mechanical.
2. If electrical, identify the problem as short or open circuit.
3. Locate the exact spot of the trouble.

A wand-shaped probe is moved along the vicinity of the car's wiring system. The device records a normal meter reading through carpeting, door sill plates and even body sheet metal, until the trouble spot is located.

At that point the meter reading changes and tells the operator the precise location of the trouble.

Remanufactured Engines Power One Car In Nine

"Mister, your engine is shot!"

After hearing these discouraging words from your favorite mechanic, chances are your first impulse is to call the nearest scrap yard.

But there's another possible answer. And that's having a remanufactured engine installed.

IF YOUR CAR'S body and interior are in poor condition, perhaps the junkyard is the proper resting place for the vehicle. But assuming your car is sound other than the engine, you'll save by installing a remanufactured mill.

According to Sears, one out of every nine vehicles in the nation is operating with remanufactured engines.

A remanufactured engine differs from an overhauled one by the fact that the camshaft and crankshaft in the former is remade. More than 250 new parts are replaced in the remanufacturing process.

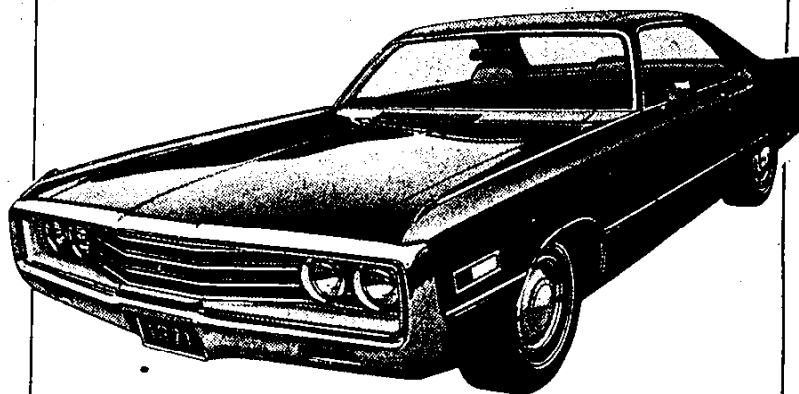
IN ADDITION it is customary to install new spark plugs, a new or rebuilt carburetor, new fuel pump, fresh hoses and belts as well as new filters in the remanufacturing process.

It is also important to have the radiator rodded. New or remanufactured parts fit so tightly that they put a special burden on the water pump to keep the engine cool. If the radiator is clogged through rust or corrosion, the engine may soon run hot.

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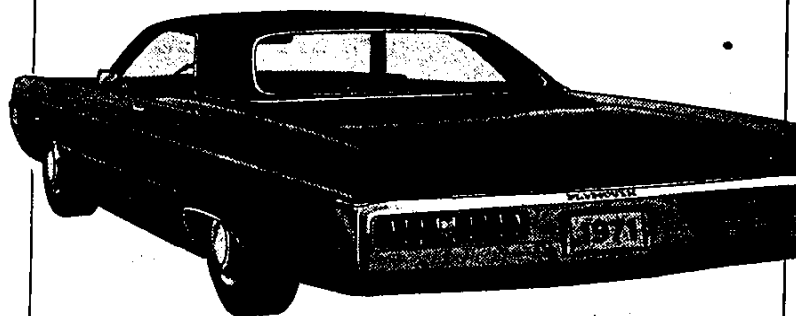
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