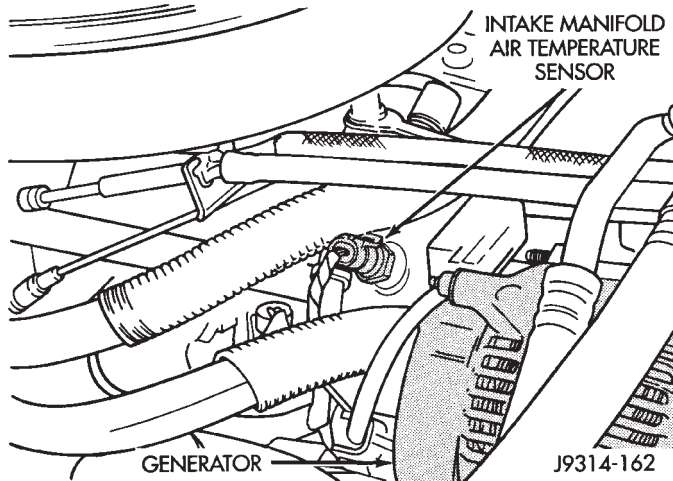
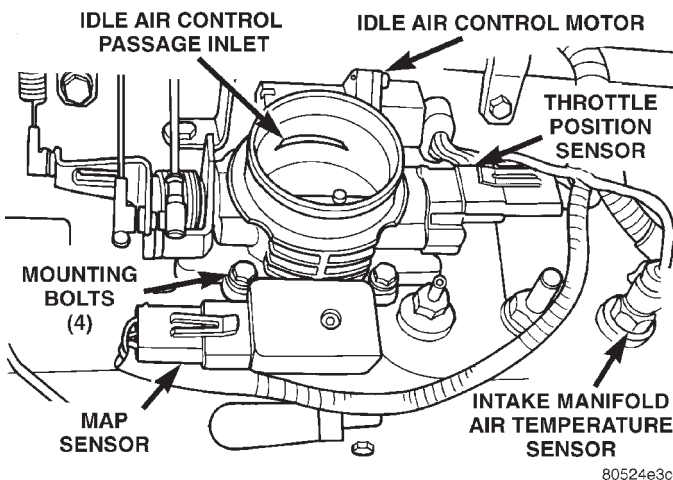


REMOVAL AND INSTALLATION (Continued)

**Fig. 85 Air Temperature Sensor—5.2L Engine****INTAKE MANIFOLD AIR TEMPERATURE SENSOR—4.0L ENGINE**

The intake manifold air temperature sensor is installed into the intake manifold plenum near the throttle body (Fig. 86).

**Fig. 86 Intake Air Sensor Location—4.0L Engine****REMOVAL**

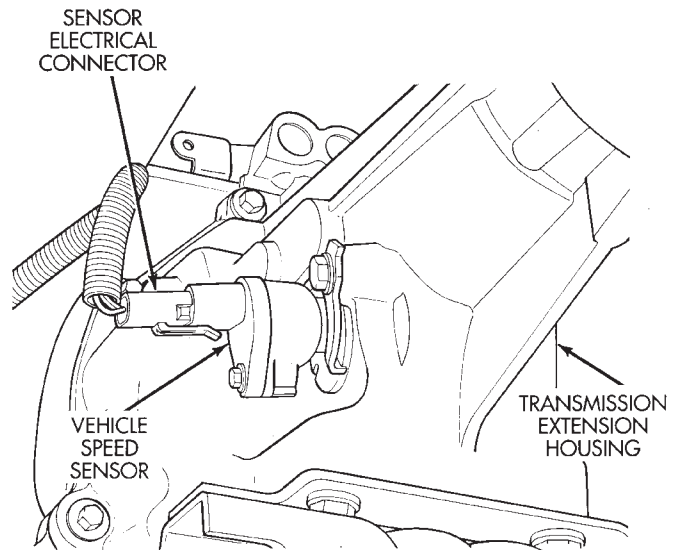
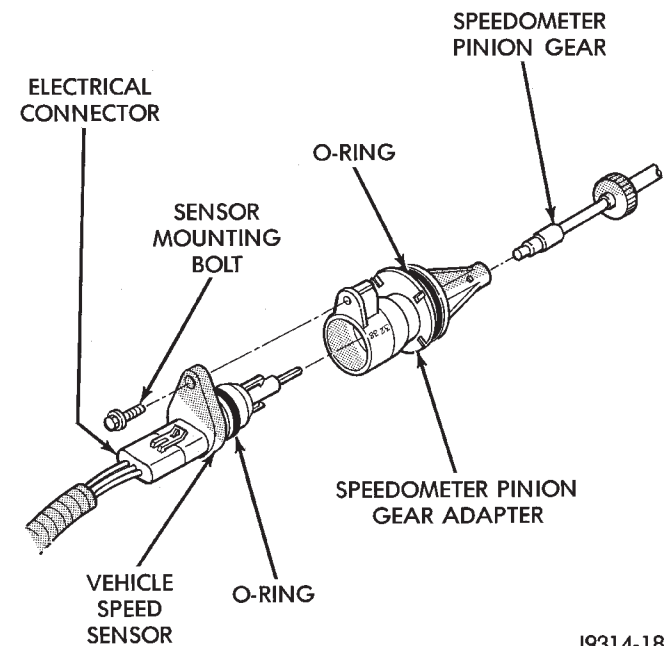
- (1) Disconnect the electrical connector from the sensor.
- (2) Remove the sensor from the intake manifold.

INSTALLATION

- (1) Install the sensor into the intake manifold. Tighten the sensor to 28 N·m (20 ft. lbs.) torque.
- (2) Connect the electrical connector to the sensor.

VEHICLE SPEED SENSOR

The vehicle speed sensor is located on the speedometer pinion gear adapter (Fig. 87). The pinion gear adapter is located on the extension housing of the transmission (drivers side).

**Fig. 87 Vehicle Speed Sensor Location—Typical****Fig. 88 Sensor Removal/Installation****REMOVAL**

- (1) Raise and support vehicle.
- (2) Disconnect the electrical connector from the sensor.
- (3) Remove the sensor mounting bolt (Fig. 88).
- (4) Remove the sensor (pull straight out) from the speedometer pinion gear adapter (Fig. 88). Do not remove the gear adapter from the transmission.

REMOVAL AND INSTALLATION (Continued)

INSTALLATION

- (1) Clean the inside of speedometer pinion gear adapter before installing speed sensor.
- (2) Install sensor into speedometer gear adapter and install mounting bolt. **Before tightening bolt, verify speed sensor is fully seated (mounted flush) to speedometer pinion gear adapter.**
- (3) Tighten sensor mounting bolt to 2.2 N·m (20 in. lbs.) torque.
- (4) Connect electrical connector to sensor.

SPECIFICATIONS

VECI LABEL SPECIFICATIONS

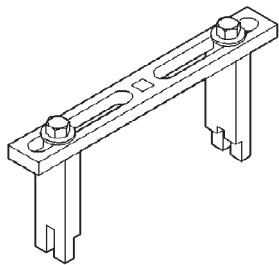
If anything differs between the specifications found on the Vehicle Emission Control Information (VECI) label and the following specifications, use specifications on VECI label. The VECI label is located in the engine compartment.

TORQUE CHART

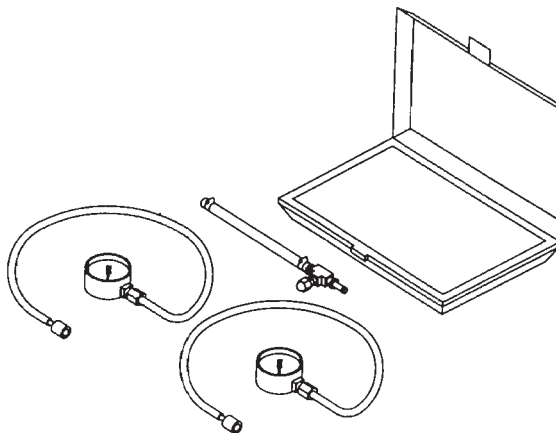
DESCRIPTION	TORQUE
Air Cleaner Housing Mount.	
Nuts	10 N·m (93 in. lbs.)
Engine Coolant Temperature Sensor—	
All Engines	11 N·m (96 in. lbs.)
Fuel Hose Clamps	1 N·m (10 in. lbs.)
IAC Motor-To-Throttle Body Bolts .7 N·m (60 in. lbs.)	
Intake Manifold Air Temp. Sensor—	
All Engines	28 N·m (20 ft. lbs.)
MAP Sensor Mounting Screws—	
All Engines	3 N·m (25 in. lbs.)
Oxygen Sensor—All Engines	30 N·m (22 ft. lbs.)
Powertrain Control Module	
Mounting Screws	1 N·m (9 in. lbs.)
Throttle Body Mounting Bolts—	
5.2L Engine	23 N·m (200 in. lbs.)
Throttle Body Mounting Bolts—	
4.0L Engine	12 N·m (108 in. lbs.)
Throttle Position Sensor Mounting	
Screws—All Engines	7 N·m (60 in. lbs.)
Vehicle Speed Sensor Mounting	
Bolt	2.2 N·m (20 in. lbs.)

SPECIAL TOOLS

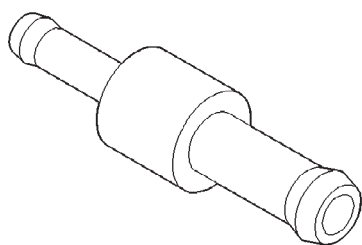
FUEL SYSTEM



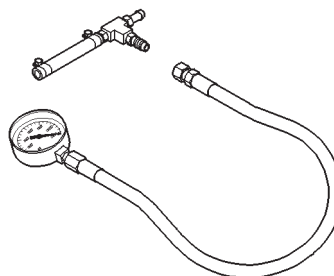
Spanner Wrench—6856



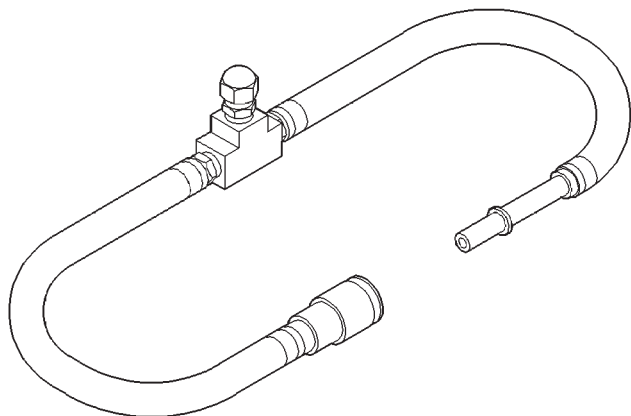
Test Kit, Fuel Pressure—5069



Fitting, Air Metering—6714



Test Kit, Fuel Pressure—C-4799-B



Adapters, Fuel Pressure Test—6541, 6539, 6631 or 6923



Fuel Line Removal Tool—6782



O2S (Oxygen Sensor) Remover/Installer—C-4907

