

(10) Install air intake heater (with new gasket) in reverse order of removal.

AIR INTAKE HEATER RELAYS

- (1) Disconnect negative cable from battery.
- (2) Disconnect electrical connections from relays (Fig. 6).

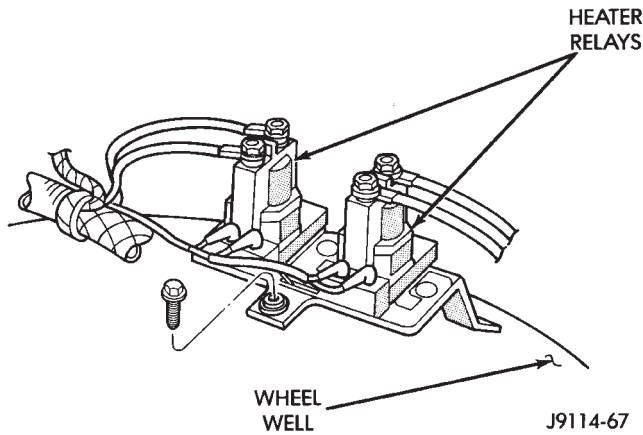


Fig. 6 Air Intake Heater Relays

- (3) Remove relay mounting screws. Remove relays.
- (4) Install relays in reverse order of removal.

ENGINE CONTROLLER

REMOVAL

The engine controller is located in the engine compartment behind the battery and under the left front fender (Fig. 7).

- (1) Disconnect the negative battery cable at battery.
- (2) Remove battery holddown clamps.
- (3) Position battery to gain access to engine controller.
- (4) Remove 60-way electrical connector from the engine controller.
- (5) Remove the three engine controller-to-mounting bracket bolts (Fig. 7). Do not remove the engine controller mounting bracket from the fender.
- (6) Remove controller from vehicle.

INSTALLATION

- (1) Check pins in 60-way controller connector for damage. Repair as necessary.
- (2) Position engine controller and install mounting bolts. Tighten bolts to 4 N•m (35 in. lbs.) torque.
- (3) Connect 60-way electrical connector to the engine controller. Tighten connector mounting screw to 4 N•m (35 in. lbs.) torque.
- (4) Install battery.
- (5) Connect battery cable to battery.

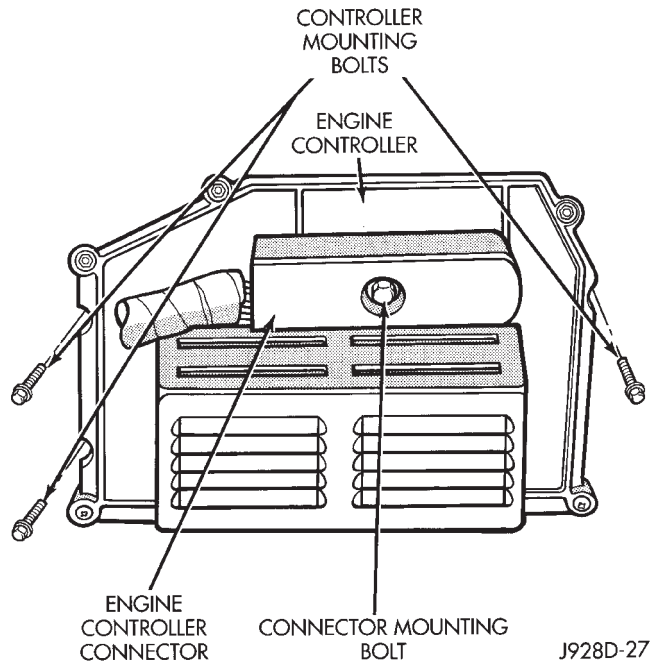


Fig. 7 Engine Controller—3.9L/5.2L Engine

ENGINE SPEED SENSOR

The engine speed sensor (sometimes referred to as the crankshaft position sensor) is located on the front of engine (Fig. 8). Two spacers located behind the sensor are used to position sensor over the vibration damper.

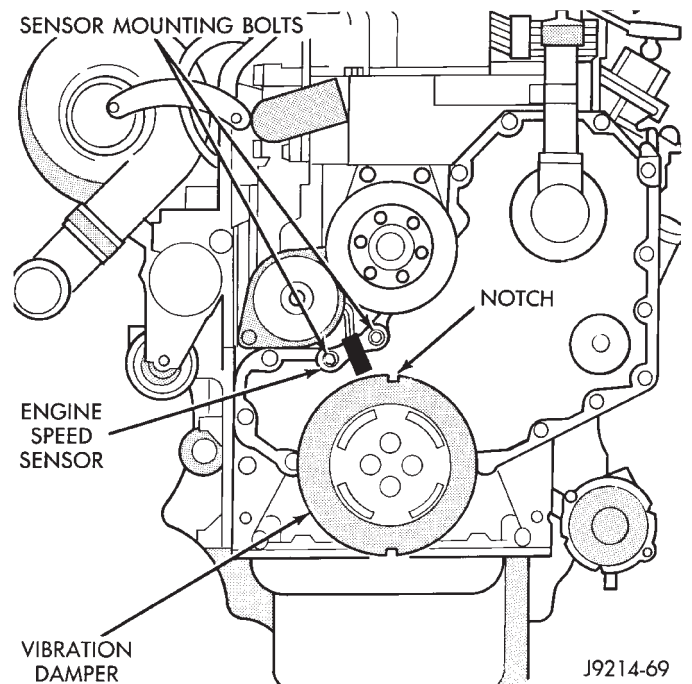


Fig. 8 Engine Speed Sensor

REMOVAL

Before removing the sensor, note the position and routing of the sensor wiring harness. This routing must be maintained to prevent wiring from contacting belt or pulleys.