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engine switched battery
PCM when the ASD relay
at this input indicates to
be activated. This input
also drives on NGC vehi

Find

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Replace with

8i - 4 IGNITION CONTROL

PT

AUTO SHUT DOWN RELAY (Continued)

When energized, the ASD relay on SBE vehicles supplies battery voltage to the fuel injectors, ignition coils and the heating element in each oxygen sensor.

When energized, the ASD relay on NGC vehicles provides power to operate the injectors, ignition coil, generator field, O₂ sensor heaters (both upstream and downstream), evaporative purge solenoid, EGR solenoid (if equipped), wastegate solenoid (if equipped), and NVLD solenoid (if equipped).

For both SBE and NGC vehicles, the ASD relay also provides a sense circuit to the PCM for diagnostic purposes. If the PCM does not receive 12 volts from this input after grounding the control side of the ASD relay, it sets a Diagnostic Trouble Code (DTC). The PCM energizes the ASD any time there is an engine speed that exceeds a predetermined value (typically about 50 rpm). The ASD relay can also be energized after the engine has been turned off to perform an O₂ sensor heater test, if vehicle is equipped with OBD II diagnostics.

As mentioned earlier, the PCM energizes the ASD relay during an O₂ sensor heater test. This test is performed only after the engine has been shut off for SBE vehicles. On NGC vehicles it checks the O₂ heater upon vehicle start. The PCM will operate internally to perform several checks, including monitoring the O₂ sensor heaters.

CAMSHAFT POSITION SENSOR

DESCRIPTION

On 2.0L 4L engines the camshaft position sensor is mounted to the rear of the cylinder head (Fig. 1). (Fig. 2). On 1.6L engines it is mounted on the front side of the cylinder head.

OPERATION

The PCM sends approximately 5 volts to the Hall-effect sensor. This voltage is required to operate the Hall-effect chip and the electronics inside the sensor.

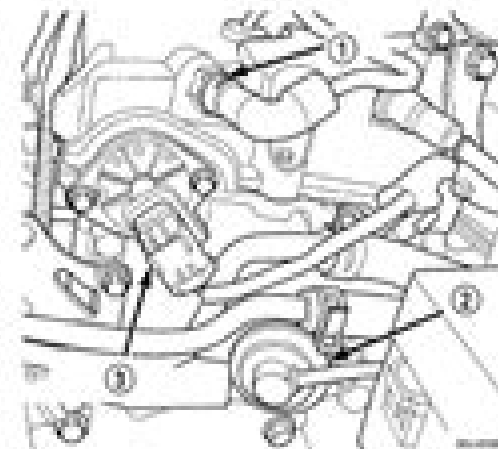
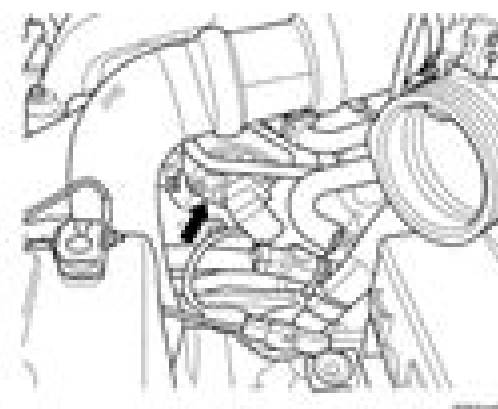


Fig. 1 Camshaft Position Sensor - 2.0L 4L DOHC

- 1 - PCM
- 2 - EGR VALVE
- 3 - CAMSHAFT POSITION SENSOR



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