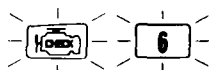


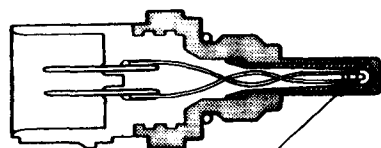
PGM-FI System

Troubleshooting Flowchart — Engine Coolant Temperature (ECT) Sensor —



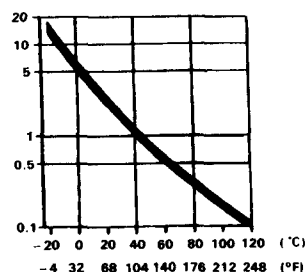
The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 6: A problem in the Engine Coolant Temperature (ECT) Sensor circuit.

The ECT Sensor is a temperature dependant resistor (thermistor). The resistance of the thermistor decreases as the engine coolant temperature increases as shown below.



THERMISTOR

RESISTANCE
(K Ω)



ENGINE COOLANT TEMPERATURE



- The MIL has been reported on.
- With service check connector jumped (see page 11-34), code 6 is indicated.

Do the ECM or PCM Reset Procedure (see page 11-35).

Turn the ignition switch ON.

Is the MIL on and does it indicate code 6?

NO

Intermittent failure, system is OK at this time (test drive may be necessary).
Check for poor connections or loose wires at C355 (located at right shock tower), C109 (ECT sensor) and ECM or PCM.

YES

Warm up engine to normal operating temperature (the radiator fan comes on).

Turn the ignition switch OFF.

Disconnect the 2P connector from the ECT sensor.

Measure resistance between the 2 terminals on the ECT sensor.

Is there 200-400 Ω ?

NO

Replace the ECT sensor.

YES

(To page 11-65)



(From page 11-64)

Turn the ignition switch ON.

Measure voltage between RED/WHT (+) terminal and body ground.

Is there approx. 5 V?

YES

Measure voltage between RED/WHT (+) terminal and GRN/WHT (-) terminal.

NO

Is there approx. 5 V?

NO

Repair open in GRN/WHT wire between ECM or PCM (D22) and ECT sensor.

YES

Substitute a known-good ECM or PCM and recheck. If symptom/indication goes away, replace the original ECM or PCM.

Turn the ignition switch OFF.

Connect the test harness "D" connector to the ECM or PCM only, not to the main wire harness (see page 11-37).

Turn the ignition switch ON.

Measure voltage between D13 (+) terminal and D22 (-) terminal.

Is there approx. 5 V?

YES

Repair open or short in RED/WHT wire between ECM or PCM (D13) and ECT sensor.

NO

Substitute a known-good ECM or PCM and recheck. If symptom/indication goes away, replace the original ECM or PCM.

