

**P0138**

The scan tool indicates Diagnostic Trouble Code (DTC) P0138: A high voltage problem in the Secondary Heated Oxygen Sensor (HO2S) (Sensor 2) circuit.

- The MIL has been reported on.
- DTC P0138 is stored.

Problem verification:

1. Do the PCM Reset Procedure.
2. Start the engine. Hold the engine at 3,000 rpm with no load (in Park or neutral) until the radiator fan comes on.
3. Check the secondary HO2S (Sensor 2) output at 3,000 rpm voltage with the scan tool.

Does the voltage stay at 0.6 V or more?

NO

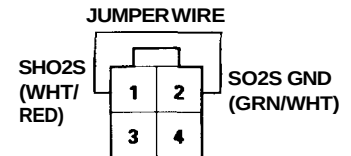
Intermittent failure, system is OK at this time. Check for poor connections or loose wires at C444 (located behind right kick panel), C610 (secondary HO2S (Sensor 2)) and PCM.

YES

Check for an open in the HO2S:

1. Turn the ignition switch OFF.
2. Disconnect the secondary HO2S (Sensor 2) connector.
3. Install a jumper wire between the secondary HO2S (Sensor 2) connector (harness side) No. 1 terminal and No. 2 terminal.
4. Turn the ignition switch ON (II).
5. Check the secondary HO2S (Sensor 2) output voltage with the scan tool.

SECONDARY HO2S (Sensor 2) CONNECTOR (C610)



Wire side of female terminals

Is there 0.6 V or more?

NO

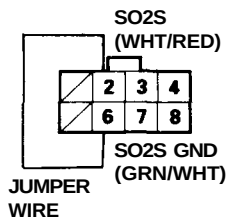
Replace the secondary HO2S (Sensor 2).

YES

Check for an open in the wire (SO2S line):

1. Turn the ignition switch OFF.
2. Install a jumper wire between the PCM connector terminals F2 and F6.
3. Turn the ignition switch ON (II).
4. Check the secondary HO2S (Sensor 2) output voltage with the scan tool.

PCM CONNECTOR F (8P)



Wire side of female terminals

Is there 0.6 V or more?

NO

Repair open in the wire between PCM (F2) or (F6) and secondary HO2S (Sensor 2).

YES

Substitute a known-good PCM and recheck (see page 11-42 for immobilizer information). If symptom/indication goes away, replace the original PCM.

(cont'd)