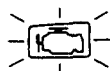


PGM-FI System

Heated Oxygen Sensor (HO2S) Heater [D15Z3 engine]



41

The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 41: A problem in the Heated Oxygen Sensor (HO2S) Heater circuit.

- The MIL has been reported on.
- With the SCS short connector connected (see page 11-14), code 41 is indicated.

Do the ECM Reset Procedure (see page 11-15).

Start the engine.

Is the MIL on and does it indicate code 41?

NO

Intermittent failure, system is OK at this time (test drive may be necessary).
Check for poor connections or loose wires between HO2S and ECM.

YES

Turn the ignition switch OFF.

Disconnect the 8P connector from the HO2S.

Measure resistance between terminals A and B on the HO2S.

Is there 2–13 Ω ?

NO

Replace the HO2S.

YES

Check for continuity to body ground on each terminal on the HO2S.

Is there continuity?

YES

Replace the HO2S.

NO

Check for continuity between terminal A and terminals C–H individually.

Is there continuity?

YES

Replace the HO2S.

NO

(To page 11-39)

DIGITAL MULTIMETER
Commercially available or
07411-0020000

TERMINAL SIDE OF
MALE TERMINALS

A	B	C	D
E	F	G	H

OXYGEN SENSOR
SOCKET WRENCH
07LAA-PT50101

HO2S
45 N·m
(4.5 kg-m, 33 lb-ft)



(From page 11-38)

Start engine and keep engine rpm at idle.

Measure voltage between ORN/BLK (+) terminal and body ground.

Is there approx. 7 V?

YES

Measure voltage ORN/BLK (+) terminal and BLK (-) terminal.

NO

Turn the ignition switch OFF.

Connect the test harness between the ECM and connectors. Disconnect "A" connector from the ECM only, not main wire harness (see page 11-17).

Check for continuity between A6 terminal and body ground.

Is there continuity?

YES

Repair short in ORN/BLK wire between ECM (A6) and the HO2S.

NO

Check for continuity ORN/BLK wire between ECM (A6) and the HO2S.

Is there continuity?

YES

Repair open in ORN/BLK wire between ECM (A6) and the HO2S.

NO

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

