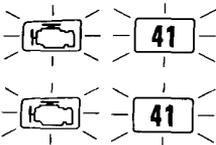


PGM-FI Control System

Troubleshooting Flowchart — Oxygen Sensor Heater



Self-diagnosis Check Engine light indicates code 41: A problem in the Oxygen (O₂) Sensor Heater circuit.

— Engine is running.
— Check Engine light has been reported on, with service check connector jumped, CODE 41 is indicated.

Turn the ignition switch OFF.

Remove BACK UP fuse in the under-hood relay box for 10 seconds to reset ECU.

Start engine.

Is Check Engine light on and does it indicate CODE 41?

NO
Intermittent failure, system is OK at this time (test driving may be necessary).
Check for poor connections or loose wires at O₂ sensor and ECU.

YES
Stop engine.

Disconnect the 4P connector from the O₂ sensor.

Measure resistance between terminals A and B on the O₂ sensor.

Is there 10–40 Ω?

NO
Replace the O₂ sensor.

YES
Check for continuity to body ground on each terminal on the O₂ sensor.

Is there continuity?

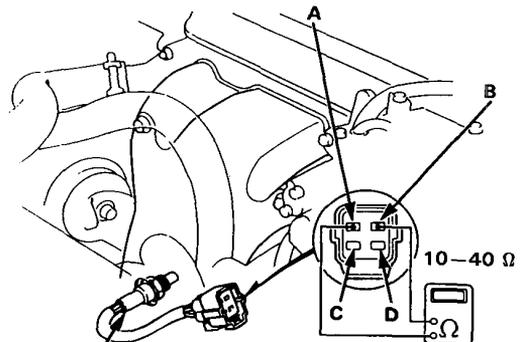
YES
Replace the O₂ sensor.

NO
Check for continuity between terminal A and terminals C and D individually.

Is there continuity?

YES
Replace the O₂ sensor.

NO
(To page 6-11)



O₂ SENSOR
45 N·m (45 kg-m, 33 lb-ft)
DIGITAL MULTIMETER
07411-002000



(From page 6-10)

Turn the ignition switch ON.

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

Is there battery voltage ?

YES

Disconnect the "A" connector from the ECU.

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

Is there battery voltage ?

YES

Repair short in ORN/BLK wire between ECU (A6) and O₂ sensor.

NO

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

Is there battery voltage ?

NO

-Repair open in YEL/BLK wire between the O₂ sensor and Main Relay.
-Replace blown ECU fuse (10A) in the underhood relay box.

YES

Turn the ignition switch OFF.

Reconnect the 4P connector to O₂ sensor.

Connect the test harness "A" connector to the main wire harness only, not the ECU.

Turn the ignition switch ON.

Measure voltage between A6 (+) terminal and A23 (-) terminal.

Is there battery voltage ?

NO

Repair open in ORN/BLK wire between ECU (A6) and O₂ Sensor.

YES

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

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

