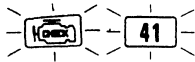
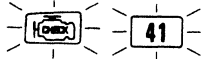


PGM-FI Control System

Troubleshooting Flowchart — LAF Sensor Heater (D15Z1 engine)



Self-diagnosis Check Engine light indicates code 41: A problem in the Linear Air Fuel ratio (LAF) Sensor Heater circuit.



— Engine is running.
— Check Engine light has been reported on. With service check connector jumped (page 11-22), CODE 41 is indicated.

Do the ECU Reset Procedures (page 11-23).

Start the engine.

Is Check Engine light 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 at C212 (located at right shock tower), C111 (LAF sensor) and ECU.

YES

Stop the engine

Disconnect the 8P connector from the LAF sensor.

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

Is there 3–13 Ω ?

NO

Replace LAF sensor.

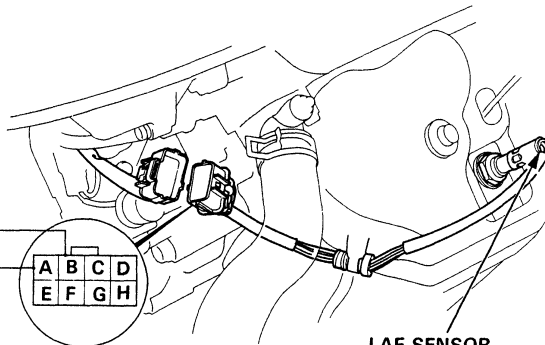
YES

(To page 11-49)

DIGITAL MULTIMETER
KS-AHM-32-003



3–13 Ω



LAF SENSOR
45 N·m
(4.5 kg·m, 33 lb·ft)



(From page 11-48)

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

Does continuity exist?

YES

Replace LAF sensor.

NO

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

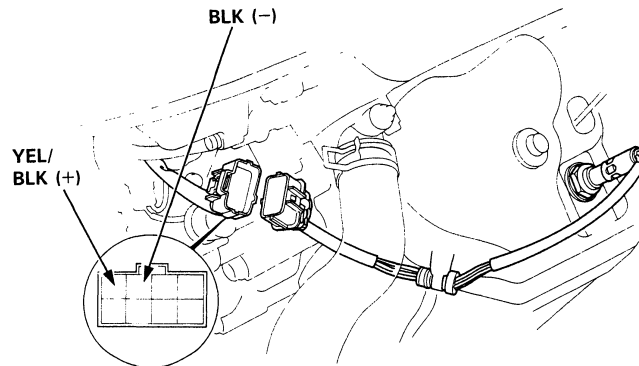
Does continuity exist?

YES

Replace LAF sensor.

NO

Start engine and keep engine rpm at idle.



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

Is there approx. 7 V?

YES

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

NO

Turn the ignition switch OFF.

Is there battery voltage?

NO

Repair open in BLK wire between LAF sensor and G101.

YES

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

(To page 11-50)

(cont'd)

PGM-FI Control System

Troubleshooting Flowchart—LAF Sensor Heater (D15Z1 engine) (cont'd)

