

PGM-FI Control System

Troubleshooting Flow Chart — IMA Sensor



Self-diagnosis Red LED indicator blinks eleven times: A problem in the IMA Sensor circuit.

-Check engine warning light is on.
-Red LED indicates CODE 11.

Turn the ignition switch OFF.

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

Turn the ignition switch ON.

Is Check engine warning light on?

NO

Intermittent failure
(test drive may be necessary.)

YES

Turn the ignition switch OFF.

Disconnect the 4P connector of the IMA sensor that has only 3 wires.

Measure resistance between YEL terminal and GRN terminal on IMA sensor harness.

Is there 4–6 kΩ?

NO

Replace IMA sensor.

YES

Measure resistance between YEL and BRN terminals and between GRN and BRN terminals.

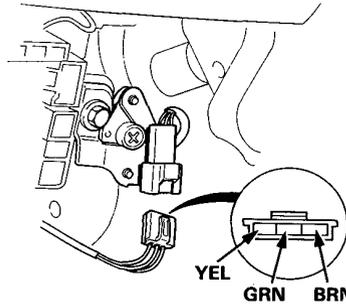
Does the sum of the two resistance checks equal 4–6 kΩ?

NO

Replace IMA sensor.

YES

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Turn the ignition switch ON.

Measure voltage between YEL/WHT (+) terminal and GRN/WHT (-) terminal on the R. side wire harness.

Is there approx. 5 V?

YES

Turn the ignition switch OFF.

Connect the PGM-FI test harness between the ECU and connector (page 6-23).

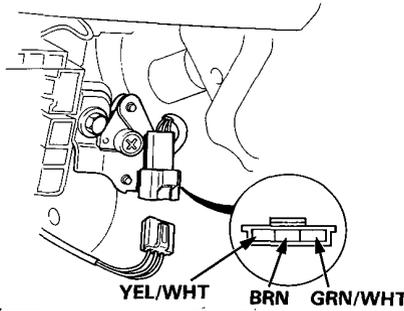
Turn the ignition switch ON.

Measure voltage between C12 (+) terminal and C14 (-) terminal.

Is there 0.5–4.5 V?

YES

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



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

Is there approx. 5 V?

YES

Repair open in GRN/WHT wire between ECU (C14) and IMA sensor.

NO

Turn the ignition switch ON.

Connect the system PGM-FI test harness between the ECU and connector (page 6-23).

Turn the ignition switch OFF.

Measure voltage between C13 (+) terminal and C14 (-) terminal.

Repair open or short in BRN wire between ECU (C12) and IMA sensor.

Is there approx. 5 V?

YES

Repair open in YEL/WHT wire between ECU (C13) and IMA sensor.

NO

Substitute a known-good ECU and re-check. If prescribed voltage is now available, replace the original ECU.

