

PGM-FI Control System

Troubleshooting Flowchart — IMA Sensor



Self-diagnosis LED indicates code 11: Most likely a problem in the IMA Sensor circuit.

- Check Engine warning light is has been reported on.
- LED indicates CODE 11.

Turn the ignition switch OFF.

Remove HAZARD fuse in the main fuse box for 10 seconds to reset ECU.

Turn the ignition switch ON.

Is Check Engine warning light on and does LED indicate CODE 11?

NO

YES

Intermittent failure, system is OK at this time (test drive may be necessary).
Check for poor connections or loose wires at the IMA sensor.

Turn the ignition switch OFF.

Disconnect the 3P connector from the IMA sensor.

Measure resistance between No.1 terminal and No.3 terminal on IMA sensor harness.

Is there 4—6 k Ω ?

NO

YES

Replace IMA sensor.

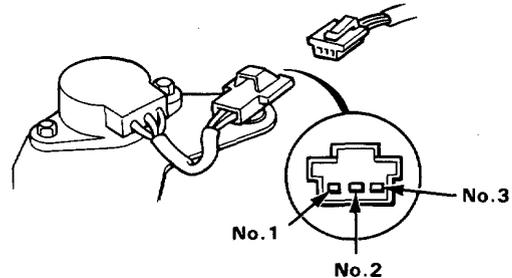
Measure resistance between No.1 and No.2 terminals and between No.3 and No.2 terminals.

Does the sum of the two resistance checks equal 4—6 k Ω ?

NO

YES

Replace IMA sensor.



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Turn the ignition switch ON.

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

Is there approx. 5V?

YES

Turn the ignition switch OFF.

Connect the PGM-FI test harness between the ECU and connector (page 6-75).

Turn the ignition switch ON.

Measure voltage between B20 (+) terminal and C12 (-) terminal.

Is voltage 0.5—4.5V?

YES

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

NO

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

Is there approx. 5V?

YES

Repair open in GRN/WHT wire between ECU (C12) and IMA sensor.

NO

Turn the ignition switch OFF.

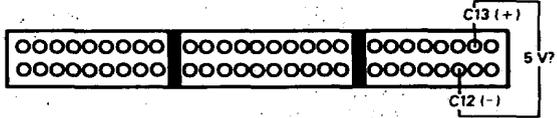
Connect the PGM-FI test harness between the ECU and connector (page 6-75).

Turn the ignition switch ON.

Measure voltage between C13 (+) terminal and C12 (-) terminal.

Repair open or short in GRN/YEL wire between ECU (B20) and IMA sensor.

NO



Is there approx. 5V?

YES

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

NO

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

