Troubleshooting Flow Chart —— IMA Sensor [Without CATA]

Self-diagnosis LED indicator blinks eleven times: Most likely a problem in the IMA Sensor circuit.

–Check Engine warning light is 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.

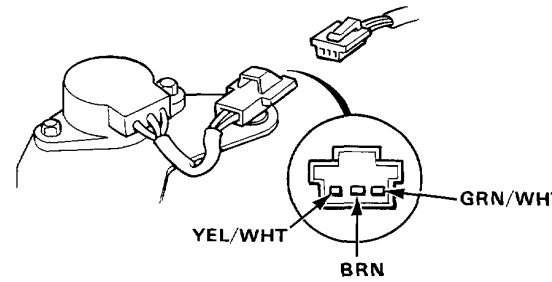
Is Check Engine warning light on? Does LED indicate CODE 11?

NO → **Intermittent failure (test drive may be necessary).**

YES

Turn the ignition switch OFF.

Disconnect the 3P connector from the IMA sensor.



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

Is there 4—6 kΩ?

NO → **Replace IMA sensor.**

YES

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

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

NO → **Replace IMA sensor.**

YES

(To page 6-51)

(From page 6-50)

Turn the ignition switch ON.

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

Is there approx. 5V? NO → Measure voltage between YEL/WHT (+) terminal and body ground.

YES

Turn the ignition switch OFF.

Connect the PGM-FI test harness between the ECU and connector (page 6-19).

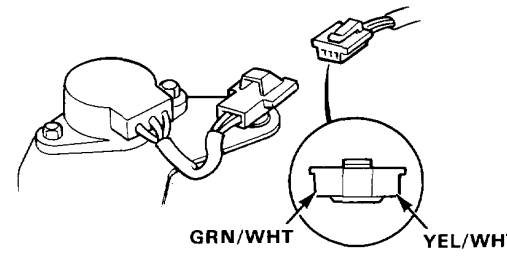
Turn the ignition switch ON.

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

Is voltage 0.5—4.5V? NO → **Repair open or short in BRN wire between ECU (B20) and IMA sensor.**

YES

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



Is there approx. 5V? YES → **Repair ope in GRN/WHT wire between ECU (C12) and IMA sensor.**

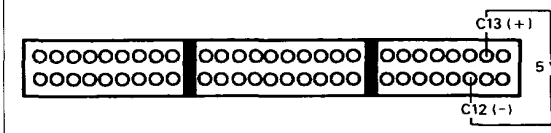
NO

Turn the ignition switch OFF.

Connect the PGM-FI test harness between the ECU and connector (page 6-19).

Turn the ignition switch ON.

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



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.