

# PGM-FI System

## Troubleshooting Flowchart — Engine Control Module (ECM) (cont'd)

NOTE: When there is no code stored, the MIL will stay on if the service check connector is jumped.

Malfunction Indicator Lamp (MIL) stays on after two seconds.

Turn the ignition switch ON.

Connect the service check connector terminals with a jumper wire.

Does the MIL indicate any Diagnostic Trouble Code (DTC)?

**YES** Go to self-diagnostic procedures (see page 11-34).

**NO**

Remove the jumper wire from the service check connector.

Try to start the engine.

Did the engine start?

**YES**

**NO**

Remove and inspect the ACG (S) (20 A) fuse in the engine compartment fuse/relay box.

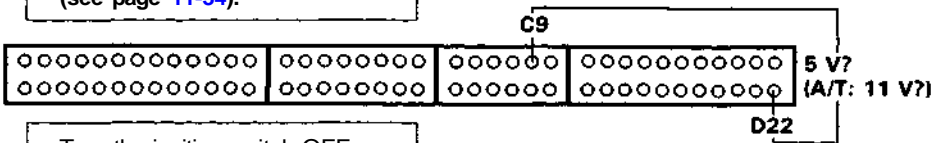
Is the fuse OK?

**NO**

Replace the fuse.

**YES**

(To page 11-45)



Turn the ignition switch OFF.

Connect the test harness between the ECM and connectors (see page 11-37).

Turn the ignition switch ON.

Measure voltage between C9 (+) terminal and D22 (-) terminal.

Is there approx. 5V (A/T: 11 V)?

**YES**

Connect the service check connector terminals with a jumper wire.

Measure voltage between C9 (+) terminal and D22 (-) terminal.

Is there approx. 5 V (A/T: 11 V)?

**YES**

Remove the jumper wire from the service check connector.

(To page 11-45)

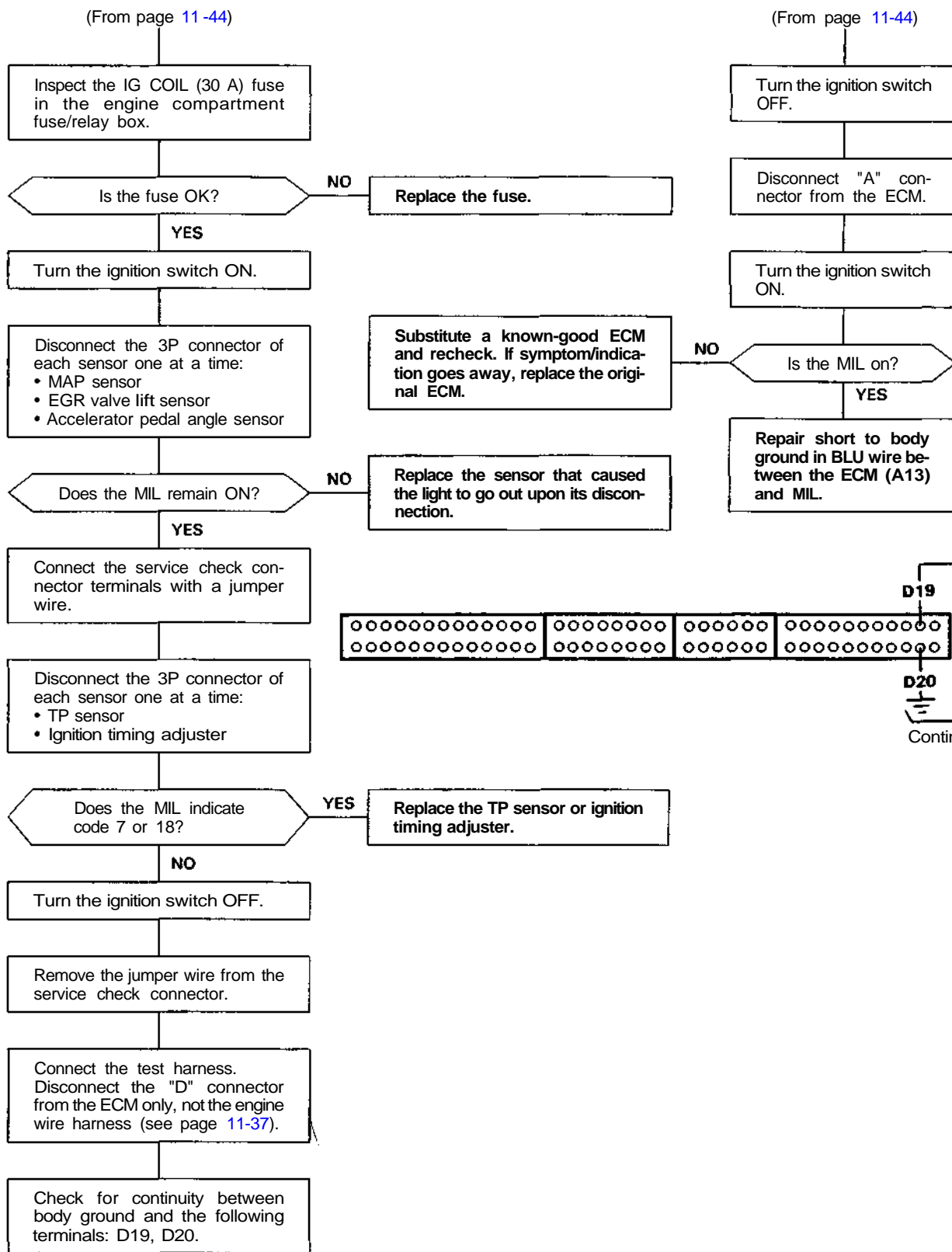
**NO**

Repair short to body ground in BLU wire between the ECM (C9), TCM, EPS control unit, ABS control unit or TCS control unit and service check connector.

- Repair open in BLU wire between ECM (C9) and service check connector.
- Repair open in GRN/WHT wire between service check connector and ECM (D22).

**YES**

\*NOTE: After repair, disconnect the service check connector jumper wire, test drive the car, and recheck the MIL for a code.



(cont'd)

# PGM-FI System

## Troubleshooting Flowchart – Engine Control Module (ECM) (cont'd)

(From page 11-45)

Is there continuity?

YES

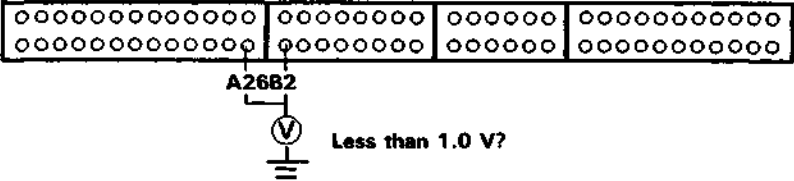
- Repair short to body ground in YEL/WHT wire between ECM (D19) and MAP sensor.
- Repair short to body ground in YEL/WHT wire between ECM (O20) and TP sensor. EGR valve life sensor, ignition timing adjuster or accelerator pedal angle sensor.

NO

Reconnect all the connectors. Reconnect the "D" connector to the ECM.

Turn the ignition switch ON.

Measure voltage between body ground and the following terminals individually: •A26, •B2.

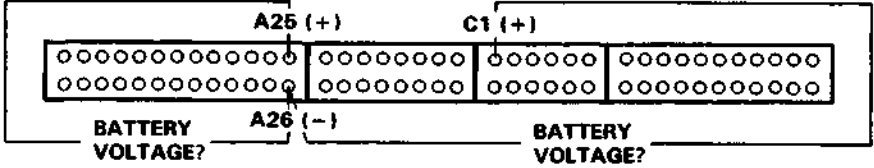


Is there less than 1.0 V?

NO

- Repair open in BRN/BLK (A26) or BRN/WHT (B2) and G101 (located at right middle of engine).

YES



Measure voltage between A26 (-) and the following: C1 (+) and A25 (+).

Is there battery voltage?

NO

- Repair open in YEL/BLK wire between ECM (A25, CD) and PGM-FI main relay.
- Check PGM-FI main relay and wiring connectors at PGM-FI main relay.

YES

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