



## PGM-FI Main Relay

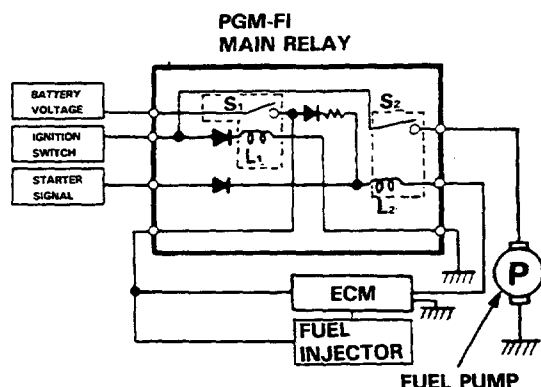
### Description

The PGM-FI main relay actually contains two individual relays.

This relay is located at the left side (LHD) or right side (RHD) of the cowl.

One relay is energized whenever the ignition is on which supplies the battery voltage to the ECM, power to the fuel injectors, and power for the second relay.

The second relay is energized for 2 seconds when the ignition is switched on, and when the engine is running, to supply power to the fuel pump.

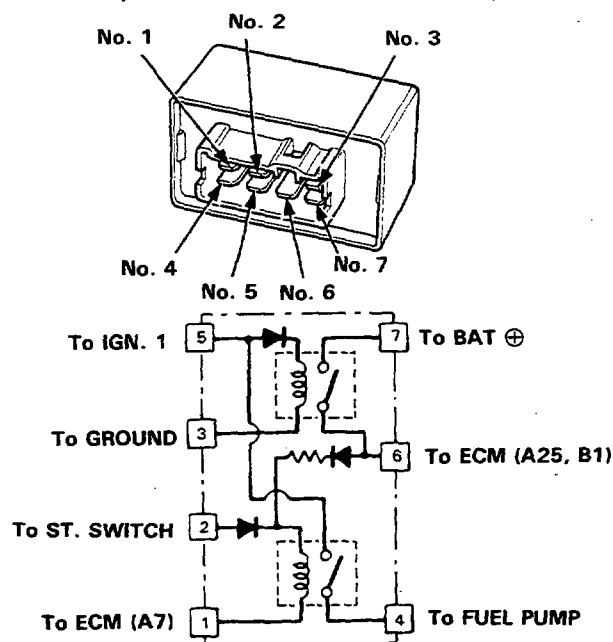


### Relay Testing

NOTE: If the car starts and continues to run, the PGM-FI main relay is OK.

1. Remove the PGM-FI main relay.
2. Attach the battery positive terminal to the No. 2 terminal and the battery negative terminal to the No. 1 terminal of the PGM-FI main relay. Then check for continuity between the No. 5 terminal and No. 4 terminal of the PGM-FI main relay.

- If there is continuity, go on to step 3.
- If there is no continuity, replace the PGM-FI main relay and retest.



3. Attach the battery positive terminal to the No. 5 terminal and the battery negative terminal to the No. 3 terminal of the PGM-FI main relay. Then check that there is continuity between the No. 7 terminal and No. 6 terminal of the PGM-FI main relay.

- If there is continuity, go on to step 4.
- If there is no continuity, replace the PGM-FI main relay and retest.

4. Attach the battery positive terminal to the No. 6 terminal and the battery negative terminal to the No. 1 terminal of the PGM-FI main relay. Then check that there is continuity between the No. 5 terminal and No. 4 terminal of the PGM-FI main relay.

- If there is continuity, the PGM-FI main relay is OK.
- If there is no continuity, replace the PGM-FI main relay and retest.

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# Fuel Supply System

## PGM-FI Main Relay

### Troubleshooting Flowchart

- Engine will not start.
- Inspection of PGM-FI main relay and relay harness.

Disconnect the PGM-FI main relay connector.

Measure the voltage between YEL/WHT (+) terminal ⑦ and body ground.

Is there battery voltage?

NO

YES

Turn the ignition switch ON.

Measure the voltage between BLK/RED (+) terminal ⑤ and body ground.

Is there battery voltage?

NO

YES

Measure the voltage between BLK/RED (+) terminal ⑤ and BLK (-) terminal ③.

Is there battery voltage?

NO

YES

NOTE: The inertia switch must be reset by pressing the button.

- Replace the ECM (ECM) (15 A) fuse in the under-hood fuse/relay box.
- Repair open in the YEL/WHT wire between the PGM-FI main relay and the ECU (ECM) (15 A) fuse.

Disconnect the 3P connector from the inertia switch.

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

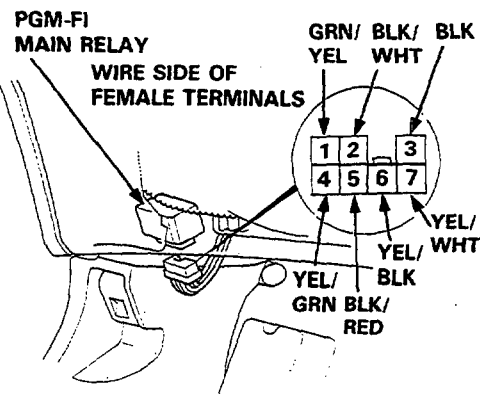
Is there battery voltage?

NO

YES

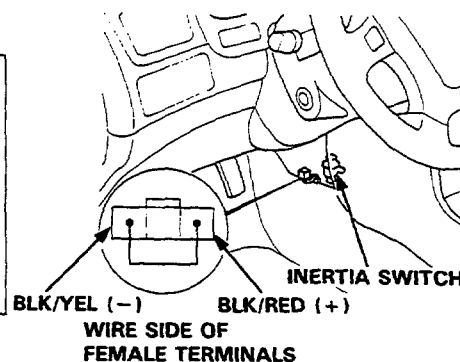
Replace the inertia switch.

- Repair open in BLK wire between PGM-FI main relay and G101 (located at thermostat housing).
- Repair open in BLK wire between PGM-FI main relay and spider unit (with spider system model only).
- Check the spider unit (with spider system model only).



The illustration shows LHD type. RHD type is symmetrical.

- Replace the No. 2 No. 26 (15 A) fuse in the under-dash fuse/relay box.
- Repair open in the BLK/YEL wire between the inertia switch and the No. 26 (15 A) fuse.
- Repair open in the BLK/RED wire between the PGM-FI main relay and inertia switch.



The illustration shows LHD type. RHD type is symmetrical.

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Turn the ignition switch to the START position.

Measure the voltage between BLK/WHT (+) terminal ② and body ground.

Is there battery voltage?

NO

**NOTE:**

- M/T: Clutch pedal must be depressed.
- A/T: Transmission in **N** or **P** position.

- Replace the No. 18 STARTER SIGNAL (7.5 A) fuse in the under-dash fuse/relay box.
- Repair open in the BLK/WHT wire between the PGM-FI main relay and the No. 18 STARTER SIGNAL (7.5 A) fuse.

YES

Turn the ignition switch OFF.

Connect the test harness between the ECM and connectors. Disconnect "A" connector from the ECM only, not the main wire harness (see page 11-17).

Check for continuity between GRN/YEL terminal ① and A7 terminal.

Is there continuity?

NO

Repair open in GRN/YEL wire between ECM (A7) and PGM-FI main relay.

YES

Reconnect "A" connector to the ECM.

Connect the PGM-FI main relay connector.

Turn the ignition switch ON.

Measure the voltage between A23 (-) terminal and the following terminals; A25 (+), B1 (+).

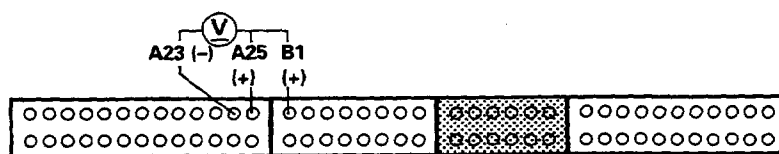
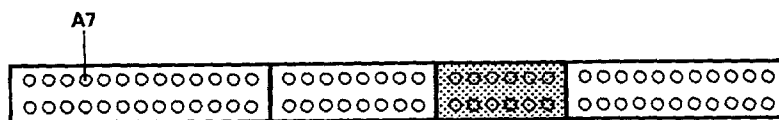
Is there battery voltage?

NO

- Repair open in the YEL/BLK wire ⑥ between the ECM (A25, B1) and PGM-FI main relay.
- Repair open in the BLK wire between the ECM (A23) and G101 (located at thermostat housing).
- Replace the PGM-FI main relay.

YES

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