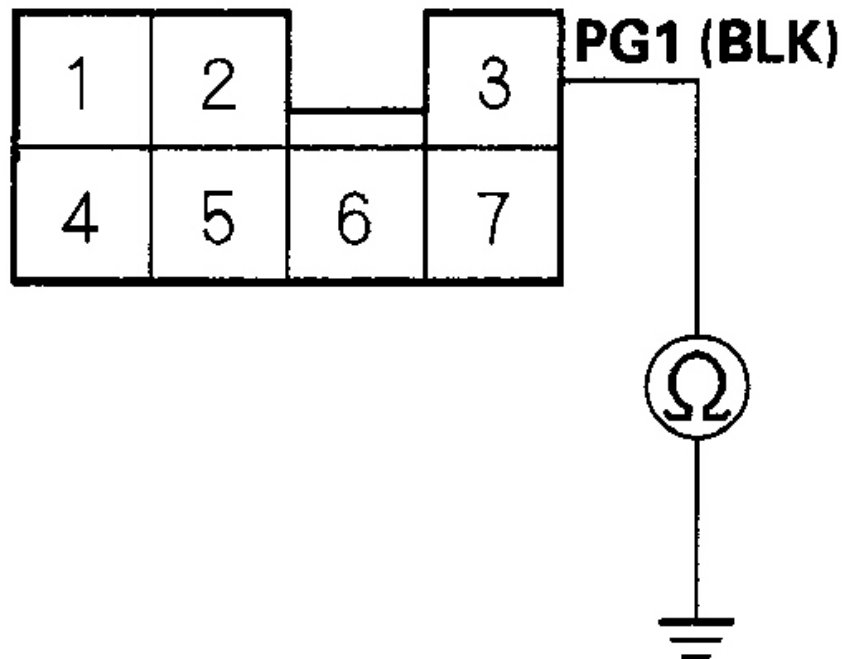


## PGM-FI MAIN RELAY CIRCUIT TROUBLESHOOTING

1. Turn the ignition switch OFF, then disconnect the PGM-FI main relay 7P connector.
2. Check for continuity between body ground and PGM-FI main relay 7P connector terminal No. 3.

### PGM-FI MAIN RELAY 7P CONNECTOR



Wire side of female terminals

G02557389

**[Fig. 3: Checking For Continuity Between Body Ground & PGM-FI Main Relay 7P Connector Terminal No. 3](#)**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

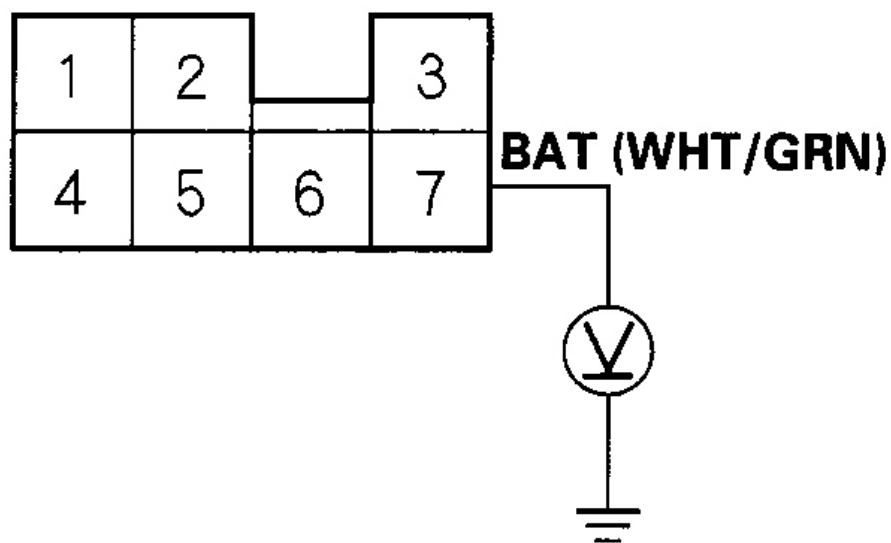
**Is there continuity?**

**YES** - Go to step 3.

**NO** - Repair open in the wire between the PGM-FI main relay and G101.

3. Measure voltage between body ground and PGM-FI main relay 7P connector terminal No. 7.

## PGM-FI MAIN RELAY 7P CONNECTOR



Wire side of female terminals

G02557390

[Fig. 4: Measuring Voltage Between Body Ground & PGM-FI Main Relay 7P Connector Terminal No. 7](#)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there battery voltage?**

**YES** - Go to step 5 .

**NO** - Go to step 4.

4. Check for a blown ACG S (15A) fuse in the underhood fuse/relay box.

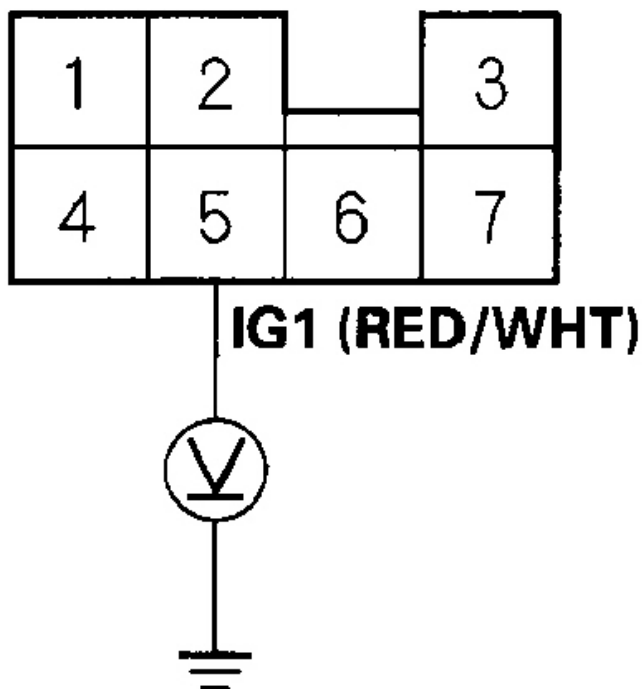
**Is the fuse blown?**

**YES** - Repair the short in the wire between the PGM-FI main relay and the ACG S (15A) fuse.

**NO** - Repair the open in the wire between the PGM-FI main relay and the ACG S (15A) fuse.

5. Turn the ignition switch ON (II), and measure voltage between body ground and PGM-FI main relay 7P connector terminal No. 5.

## PGM-FI MAIN RELAY 7P CONNECTOR



Wire side of female terminals

G02557391

**Fig. 5: Measuring Voltage Between Body Ground & PGM-FI Main Relay 7P Connector Terminal No. 5**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there battery voltage?**

**YES** - Go to step 7 .

**NO** - Go to step 6.

6. Check for a blown No. 1 FUEL PUMP (15A) fuse in the driver's under-dash fuse/relay box.

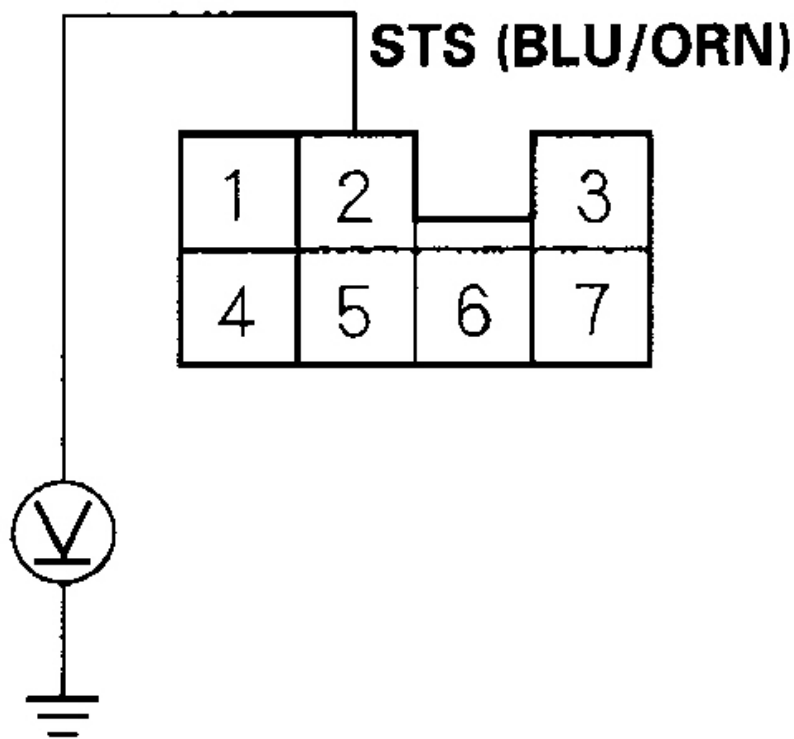
**Is the fuse blown?**

**YES** - Repair the short in the wire between the PGM-FI main relay and the No. 1 FUEL PUMP (15A) fuse.

**NO** - Repair the open in the wire between the PGM-FI main relay and the No. 1 FUEL PUMP (15A) fuse.

7. Push the clutch pedal in, or shift to Park, then turn the ignition switch to the START (III) position, and measure voltage between body ground and PGM-FI main relay 7P connector terminal No. 2.

## PGM-FI MAIN RELAY 7P CONNECTOR



Wire side of female terminals

G02557392

**[Fig. 6: Measuring Voltage Between Body Ground & PGM-FI Main Relay 7P Connector Terminal No. 2](#)**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there battery voltage?**

**YES** - Go to step 9 .

**NO** - Go to step 8.

8. Check for a blown No. 13 STARTER SIGNAL (7.5A) fuse in the driver's under-dash fuse/relay box.

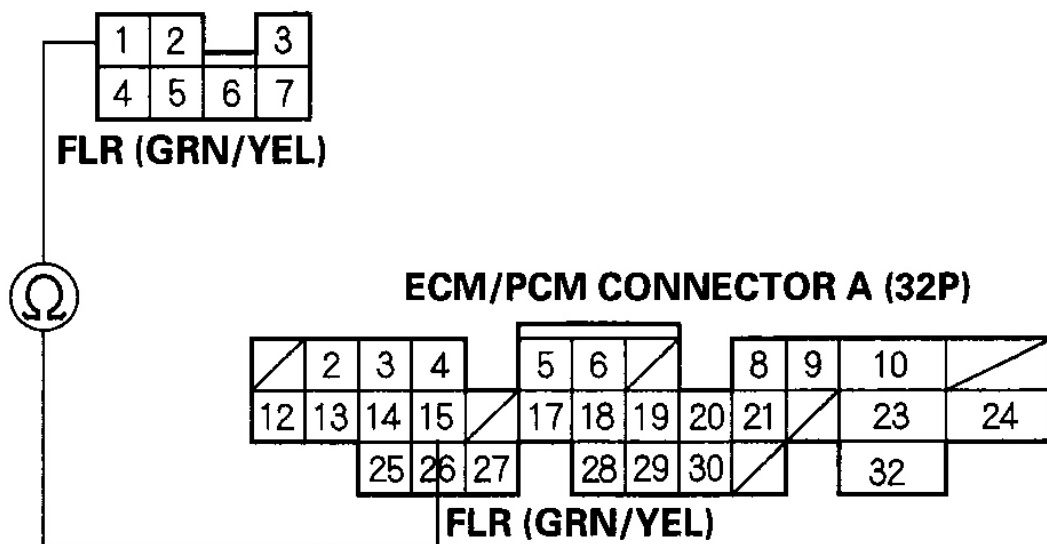
**Is the fuse blown?**

**YES** - Repair the short in the wire between the PGM-FI main relay and the No. 13 STARTER SIGNAL (7.5A) fuse.

**NO** - Repair the open in the wire between the PGM-FI main relay and the No. 13 STARTER SIGNAL (7.5A).

9. Turn the ignition switch OFF, and disconnect ECM/PCM connector A (32P).
10. Check for continuity between PGM-FI main relay 7P connector terminal No. 1 and ECM/PCM connector terminal A15.

**PGM-FI MAIN RELAY 7P CONNECTOR**



Wire side of female terminals

G02557393

**Fig. 7: Checking Continuity Between PGM-FI Main Relay 7P Connector Terminal No. 1 & ECM/PCM Connector Terminal A15**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there continuity?**

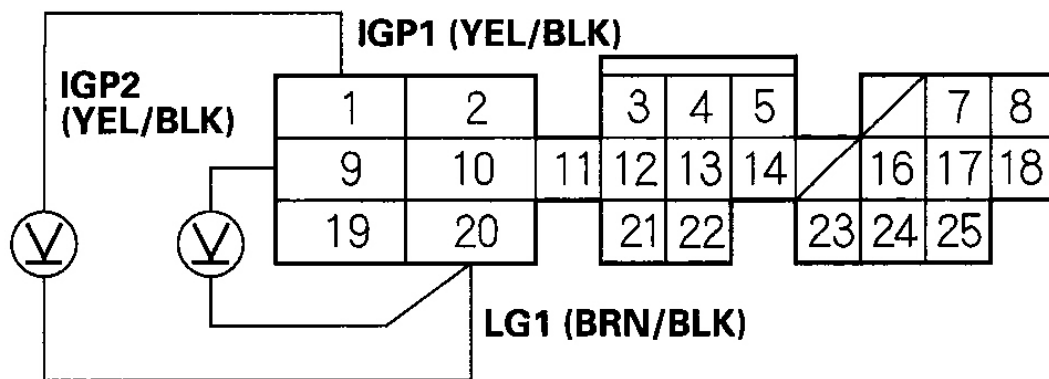
**YES** - Go to step 11.

**NO** - Repair open in the wire between the PGM-FI main relay and the ECM/PCM (A15).

11. Reconnect ECM/PCM connector A (32P) and the PGM-FI main relay 7P connector.
12. Turn the ignition switch ON (II), and measure voltage between ECM/PCM connector terminals B1 and

B20, and between B9 and B20.

**ECM/PCM CONNECTOR B (25P)**



Wire side of female terminals

G02557394

**Fig. 8: Measuring Voltage Between ECM/PCM Connector Terminals B1 & B20, & Between B9 & B20**

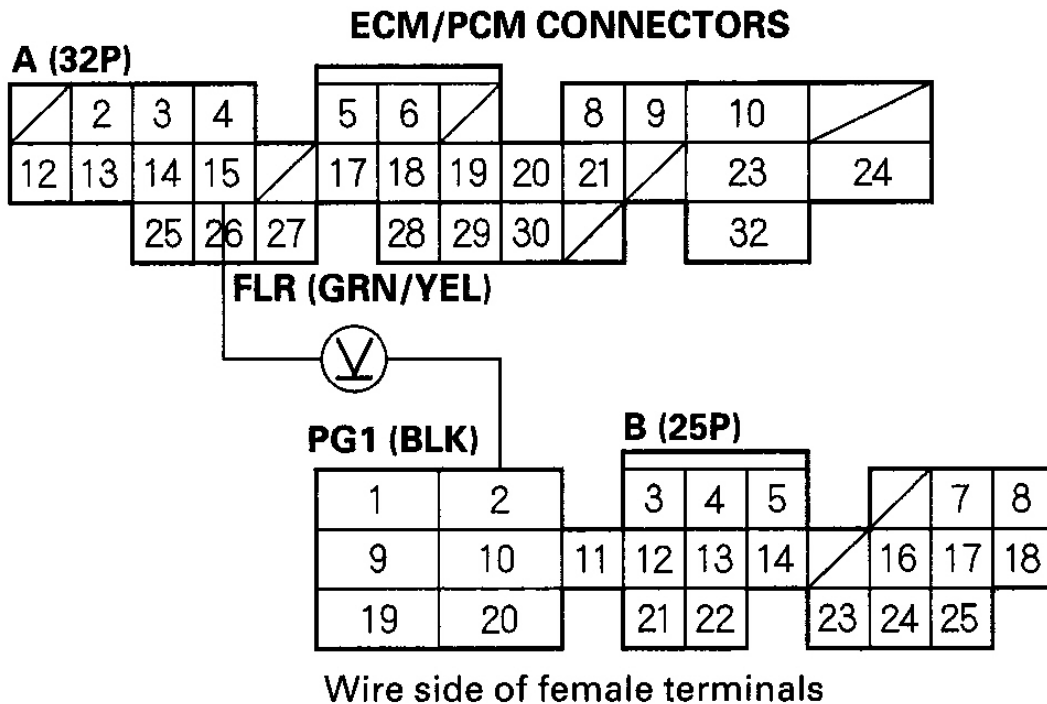
Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there battery voltage?**

**YES** - Go to step 13.

**NO** - Check for an open in the wires between the PGM-FI main relay and the ECM/PCM (B1, B9).  
If the wires are OK, replace the PGM-FI main relay.

13. Turn the ignition switch OFF, then ON (II) again, and measure voltage between the ECM/PCM connector terminals A15 and B2 within the first 2 seconds after the ignition switch is turned ON (II).



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**Fig. 9: Measuring Voltage Between ECM/PCM Connector Terminals A15 & B2**  
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

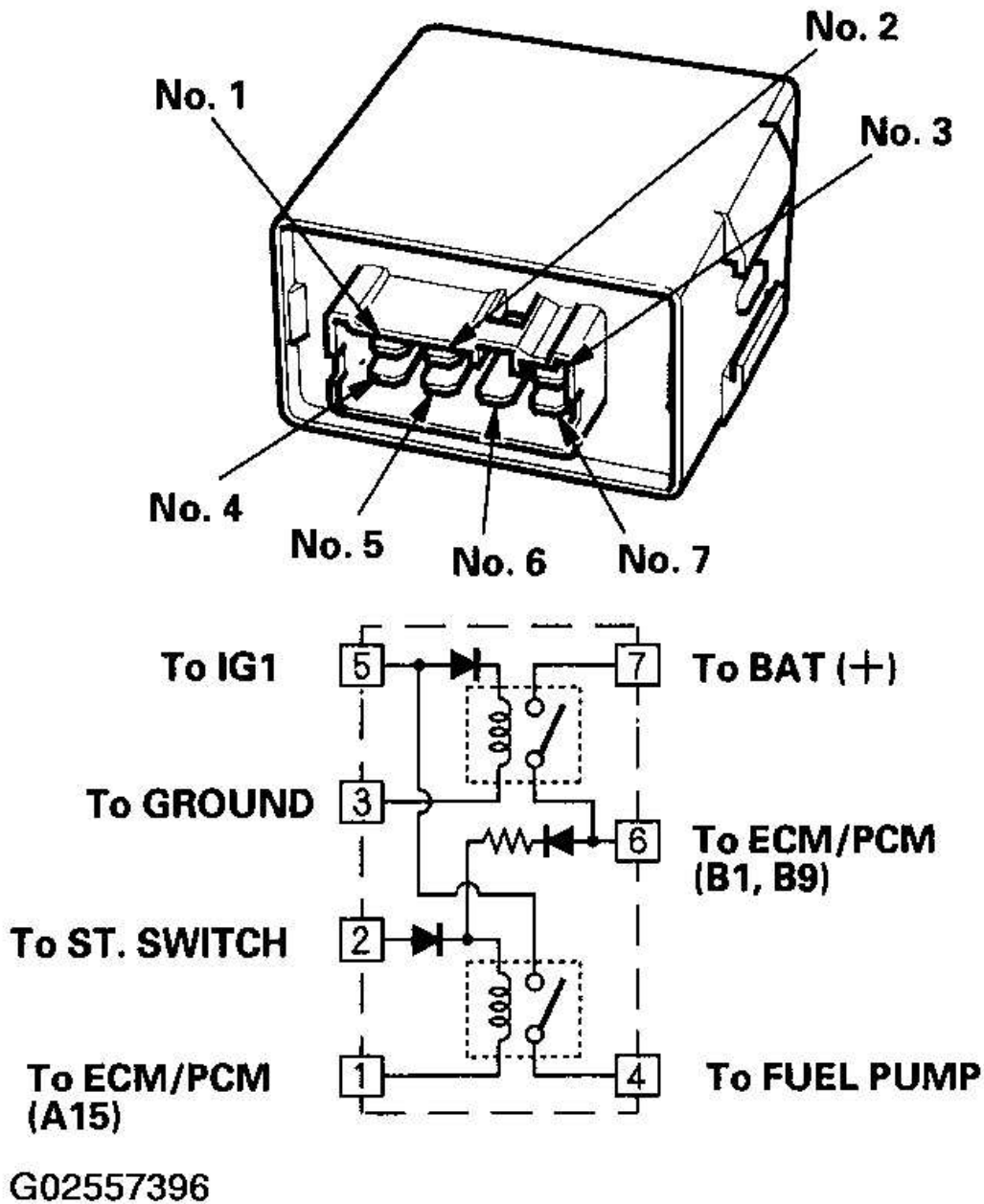
**Is there 1.0 V or less?**

**YES** - The PGM-FI main relay may be faulty. Go to step 14.

**NO** - Substitute a known-good ECM/PCM and recheck (see **HOW TO SUBSTITUTE THE ECM/PCM FOR TESTING PURPOSES**). If the prescribed voltage is now available, replace the original ECM/PCM.

14. Remove the PGM-FI main relay.

**NOTE:** Use the terminal numbers shown. Ignore the terminal numbers molded into the relay.



**Fig. 10: Identifying PGM-FI Main Relay 7P Connector Terminals**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

15. Connect battery power to the PGM-FI main relay 7P connector terminal No. 2, and connect ground to the PGM-FI main relay 7P connector terminal No. 1. Then check for continuity between the PGM-FI main relay 7P connector terminals No. 5 and No. 4.

**Is there continuity?**

**YES** - Go to step 16.

**NO** - Replace the PGM-FI main relay and retest.

16. Connect battery power to the PGM-FI main relay 7P connector terminal No. 5, and connect ground to the PGM-FI main relay 7P connector terminal No. 3. Then check for continuity between the PGM-FI main relay 7P connector terminals No. 7 and No. 6.

**Is there continuity?**

**YES** - Go to step 17.

**NO** - Replace the PGM-FI main relay and retest.

17. Connect battery power to the PGM-FI main relay 7P connector terminal No. 6, and connect ground to the PGM-FI main relay 7P connector terminal No. 1. Then check for continuity between the PGM-FI main relay 7P connector terminals No. 5 and No. 4.

**Is there continuity?**

**YES** - The PGM-FI main relay is OK.

**NO** - Replace the PGM-FI main relay and retest.