

# Idle Control System

## DTC Troubleshooting (cont'd)

**DTC P0511:** IAC Valve Circuit Malfunction (2004 model)

**DTC P1519:** IAC Valve Circuit Malfunction (2002-2003 models)

**NOTE:**

- Information marked with an asterisk ( \* ) applies to 2004 model.
- Information marked with double asterisk ( \* \* ) applies to 2002-2003 models.

1. Reset the ECM/PCM (see page 11-4).
2. Turn the ignition switch ON (II).

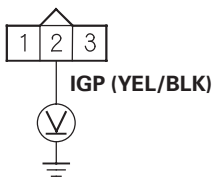
*Is DTC P0511\* (P1519)\*\* indicated?*

**YES**—Go to step 3.

**NO**—Intermittent failure, system is OK at this time. Check for poor connections or loose terminals the IAC valve and the ECM/PCM. ■

3. Turn the ignition switch OFF.
4. Disconnect the IAC valve 3P connector.
5. Turn the ignition switch ON (II).
6. Measure voltage between IAC valve 3P connector terminal No. 2 and body ground.

**IAC VALVE 3P CONNECTOR**



Wire side of female terminals

*Is there battery voltage?*

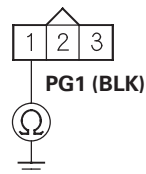
**YES**—Go to step 7.

**NO**—Repair open in the wire between the IAC valve and the PGM-FI main relay. ■

7. Turn the ignition switch OFF.

8. Check for continuity between body ground and IAC valve 3P connector terminal No. 1.

**IAC VALVE 3P CONNECTOR**



Wire side of female terminals

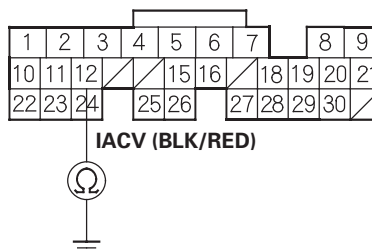
*Is there continuity?*

**YES**—Go to step 9.

**NO**—Repair open in the wire between the IAC valve and G101. ■

9. Disconnect ECM/PCM connector A (31P).
10. Check for continuity between body ground and ECM/PCM connector terminal A12.

**ECM/PCM CONNECTOR A (31P)**



Wire side of female terminals

*Is there continuity?*

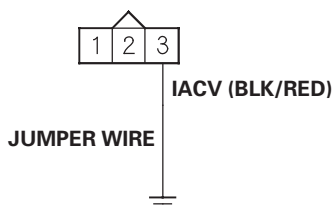
**YES**—Repair short in the wire between the IAC valve and the ECM/PCM (A12). ■

**NO**—Go to step 11.



11. Connect IAC valve 3P connector terminal No. 3 and body ground with a jumper wire.

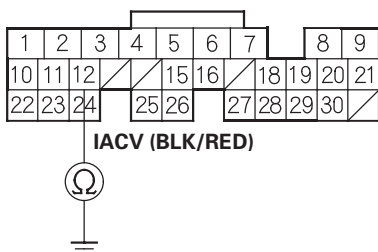
**IAC VALVE 3P CONNECTOR**



Wire side of female terminals

12. Check for continuity between ECM/PCM connector terminal A12 and body ground.

**ECM/PCM CONNECTOR A (31P)**



Wire side of female terminals

*Is there continuity?*

**YES**—Go to step 13.

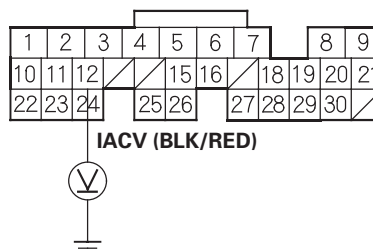
**NO**—Repair open in the wire between the IAC valve and the ECM/PCM (A12). ■

13. Reconnect the IAC valve 3P connector.

14. Turn the ignition switch ON (II).

15. Measure voltage between body ground and ECM/PCM connector terminal A12.

**ECM/PCM CONNECTOR A (31P)**



Wire side of female terminals

*Is there battery voltage?*

**YES**—Update the ECM/PCM if it does not have the latest software, or substitute a known-good ECM/PCM (see page 11-6), then recheck. If the symptom/indication goes away with a known-good ECM/PCM, replace the original ECM/PCM (see page 11-284). ■

**NO**—Replace the IAC valve (see page 11-412). ■