

2005-08 ENGINE PERFORMANCE

Electronic Throttle Control System - RL

COMPONENT LOCATION INDEX

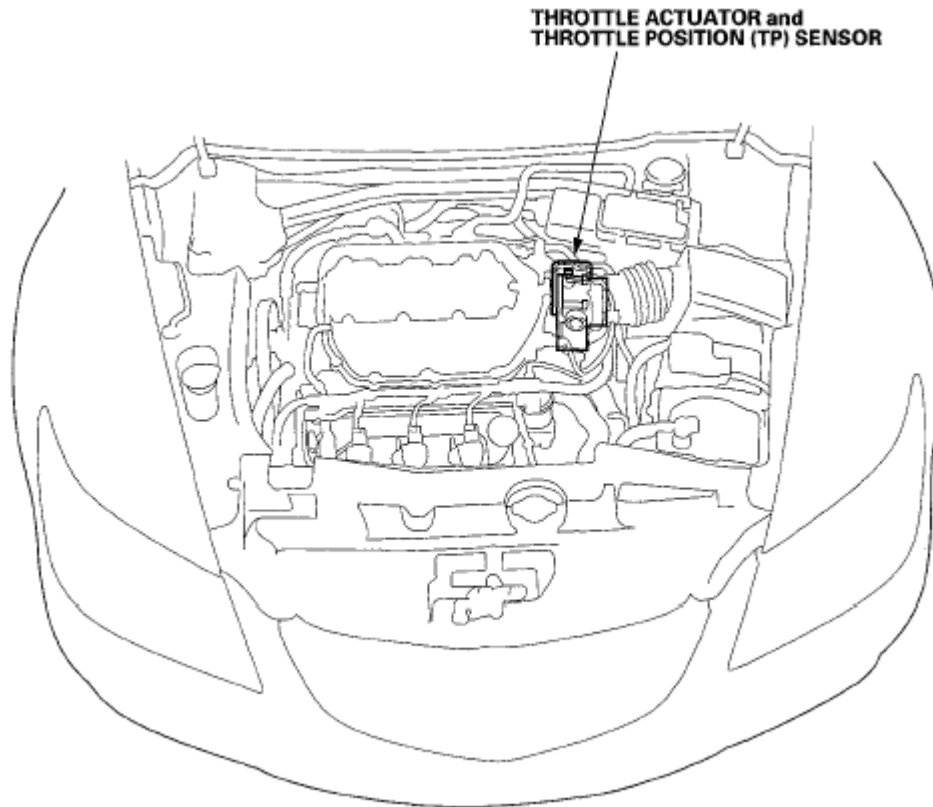


Fig. 1: Identifying Electronic Throttle Control System Component Location (1 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

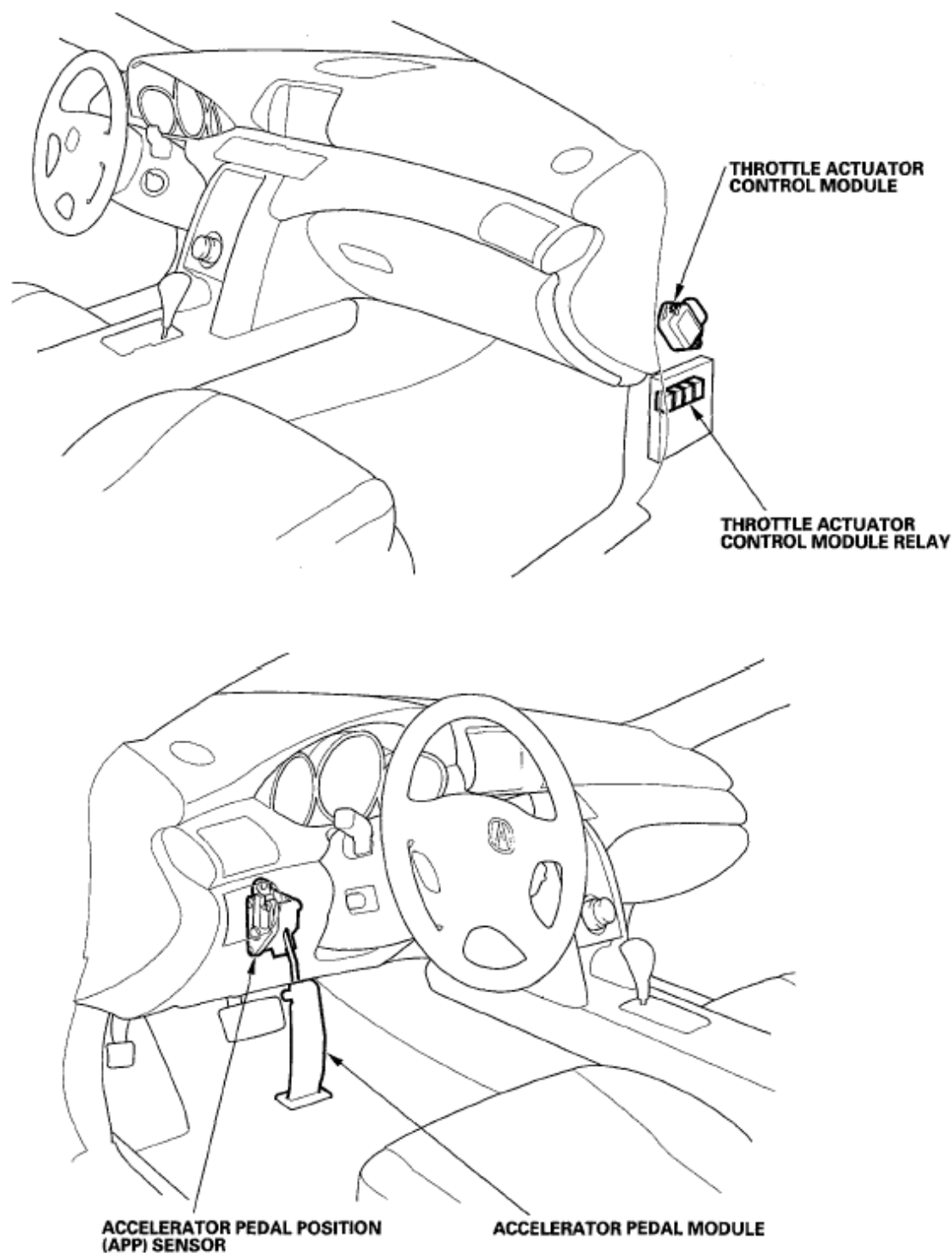


Fig. 2: Identifying Electronic Throttle Control System Component Location (2 Of 2)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

DTC TROUBLESHOOTING

DTC P0122: TP SENSOR A CIRCUIT LOW VOLTAGE

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot,

and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Check TP SENSOR A in the DATA LIST with the HDS.

Is there about 0.3 V or less?

YES - Go to step 4.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module.

4. Check for Temporary DTCs or DTCs with the HDS.

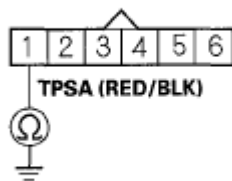
Are DTC P0122 and P0222 indicated at the same time?

YES - Check for, and repair any poor connections or loose terminals at the throttle body, the throttle actuator control module, and the PCM, then go to step 21. If the connections and terminals are OK, go to step 11.

NO - Go to step 5.

5. Turn the ignition switch OFF.
6. Disconnect the throttle body 6P connector.
7. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
8. Check for continuity between throttle body 6P connector terminal No. 1 and body ground.

THROTTLE BODY 6P CONNECTOR



Wire side of female terminals

Fig. 3: Checking Continuity Between Throttle Body 6P Connector Terminal No. 1 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle body and the C251 connector (TPSA line), then go to step 17.

NO - Go to step 9.

9. Disconnect the throttle actuator control module 16P connector.
10. Check for continuity between C251 connector (13P) terminal No. 4 and body ground.

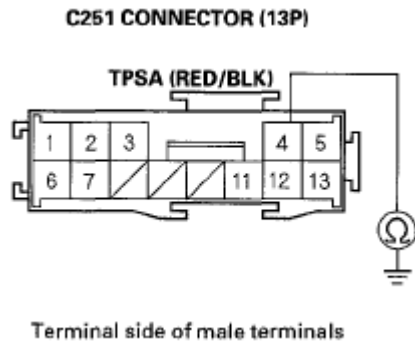


Fig. 4: Checking Continuity Between C251 Connector (13P) Terminal No. 4 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle actuator control module and the C251 connector (TPSA line), then go to step 21.

NO - Go to step 26.

11. Measure voltage between throttle body 6P connector terminal No. 2 and body ground.

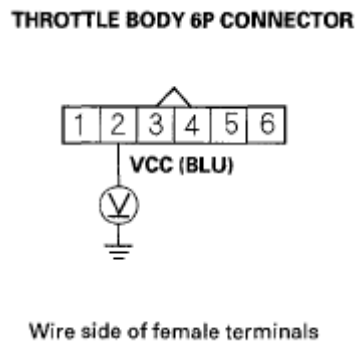


Fig. 5: Measuring Voltage Between Throttle Body 6P Connector Terminal No. 2 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 5 V?

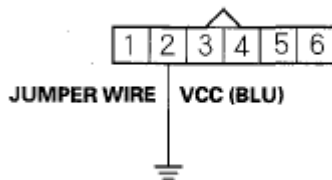
YES - Go to step 19.

NO - Go to step 12.

12. Turn the ignition switch OFF.
13. Disconnect the throttle body 6P connector.

14. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
15. Connect throttle body 6P connector terminal No. 2 to body ground with a jumper wire.

THROTTLE BODY 6P CONNECTOR



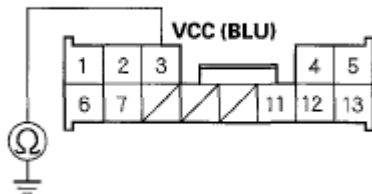
Wire side of female terminals

Fig. 6: Connecting Throttle Body 6P Connector Terminal No. 2 To Body Ground With Jumper Wire

Courtesy of AMERICAN HONDA MOTOR CO., INC.

16. Check for continuity between C251 connector (13P) terminal No. 3 and body ground.

C251 CONNECTOR (13P)



Wire side of female terminals

Fig. 7: Checking Continuity Between C251 Connector (13P) Terminal No. 3 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 21.

NO - Repair open in the wire between the throttle body and the throttle actuator control module (VCC line), then go to step 21.

17. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
18. Check for continuity between throttle actuator control module 16P connector terminal No. 11 and C251 connector (13P) terminal No. 3.

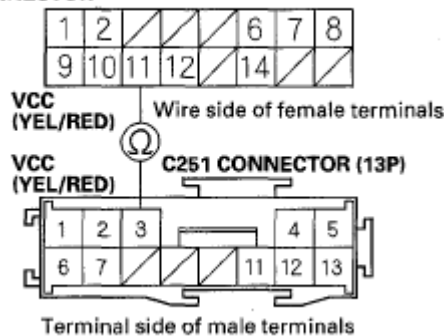
THROTTLE ACTUATOR CONTROL MODULE 16P CONNECTOR

Fig. 8: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 11 And C251 (13P) Terminal 3

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 26.

NO - Repair open in the wire between the throttle actuator control module (VCC line) and the C251 connector, then go to step 21.

19. Turn the ignition switch OFF.
20. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
21. Reconnect all connectors.
22. Turn the ignition switch ON (II).
23. Reset the PCM with the HDS.
24. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
25. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0122 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

26. Reconnect all connectors.
27. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **THROTTLE BODY CLEANING**).
28. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0122 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P0123: TP SENSOR A CIRCUIT HIGH VOLTAGE

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Check TP SENSOR A in the DATA LIST with the HDS.

Is there about 4.8 V or more?

YES - Go to step 4.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module.

4. Check for Temporary DTCs or DTCs with the HDS.

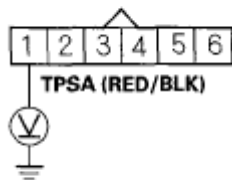
Are DTC P0123 and P0223 indicated at the same time?

YES - Go to step 12.

NO - Go to step 5.

5. Measure voltage between throttle body 6P connector terminal No. 1 and body ground.

THROTTLE BODY 6P CONNECTOR



Wire side of female terminals

Fig. 9: Measuring Voltage Between Throttle Body 6P Connector Terminal No. 1 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 5 V?

YES - Go to step 19.

NO - Go to step 6.

6. Turn the ignition switch OFF.
7. Disconnect the throttle body 6P connector.
8. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
9. Connect throttle body 6P connector terminal No. 1 to body ground with a jumper wire.

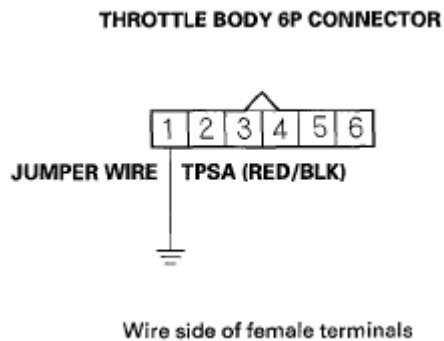


Fig. 10: Connecting Throttle Body 6P Connector Terminal No. 1 To Body Ground With Jumper Wire

Courtesy of AMERICAN HONDA MOTOR CO., INC.

10. Check for continuity between C251 connector (13P) terminal No. 4 and body ground.

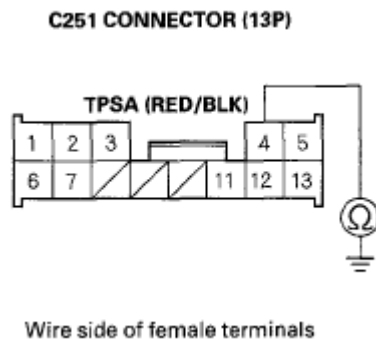


Fig. 11: Checking Continuity Between C251 Connector (13P) Terminal No. 4 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 11.

NO - Repair open in the wire between the throttle body and the C251 connector (TPSA line), then go to step 21.

10. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
11. Check for continuity between throttle actuator control module 16P connector terminal No. 10 and C251 connector (13P) terminal No. 4.

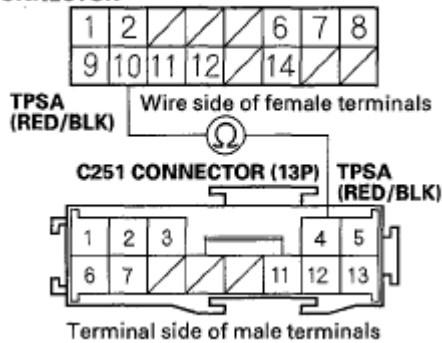
THROTTLE ACTUATOR CONTROL MODULE 16P CONNECTOR

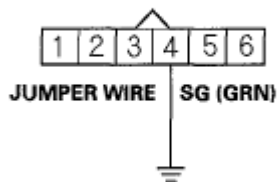
Fig. 12: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 10 And C251 (13P) Terminal 4
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 26.

NO - Repair open in the wire between the throttle actuator control module and the C251 connector (TPSA line), then go to step 21.

12. Turn the ignition switch OFF.
13. Disconnect the throttle body 6P connector.
14. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
15. Connect throttle body 6P connector terminal No. 4 to body ground with a jumper wire.

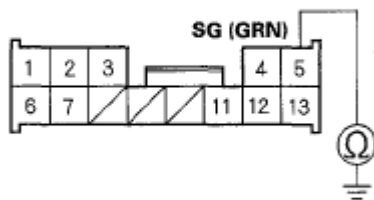
THROTTLE BODY 6P CONNECTOR

Wire side of female terminals

Fig. 13: Connecting Throttle Body 6P Connector Terminal No. 4 To Body Ground With Jumper Wire
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

16. Check for continuity between C251 connector (13P) terminal No. 5 and body ground.

C251 CONNECTOR (13P)



Wire side of female terminals

Fig. 14: Checking Continuity Between C251 Connector (13P) Terminal No. 5 And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 18.

NO - Repair open in the wire between the throttle body and the C251 connector (SG line), then go to step 21.

17. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
18. Check for continuity between throttle actuator control module 16P connector terminal No. 9 and C251 connector (13P) terminal No. 5.

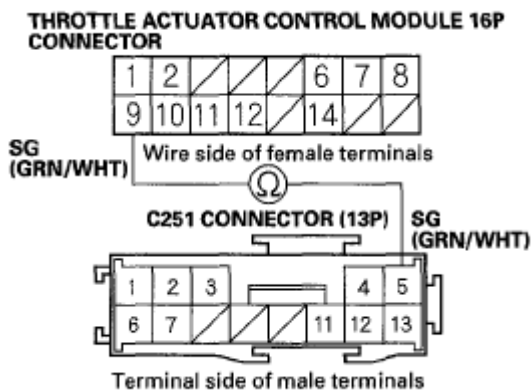


Fig. 15: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 9 And C251 (13P) Terminal 5
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 26.

NO - Repair open in the wire between the throttle actuator control module (SG line) and the C251 connector, then go to step 21.

19. Turn the ignition switch OFF.
20. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).

21. Reconnect all connectors.
22. Turn the ignition switch ON (II).
23. Reset the PCM with the HDS.
24. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
25. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0123 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

26. Reconnect all connectors.
27. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
28. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0123 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P0222: TP SENSOR B CIRCUIT LOW VOLTAGE

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Check TP SENSOR A in the DATA LIST with the HDS.

Is there about 0.3 V or less?

YES - Go to step 4.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module.

4. Check for Temporary DTCs or DTCs with the HDS.

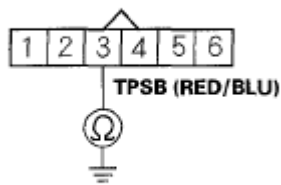
Are DTC P0122 and P0222 indicated at the same time?

YES - Check for, and repair any poor connections or loose terminals at the throttle body, the throttle actuator control module, and the PCM, then go to step 21. If the connections and terminals are OK, go to step 11.

NO - Go to step 5.

5. Turn the ignition switch OFF.
6. Disconnect the throttle body 6P connector.
7. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
8. Check for continuity between throttle body 6P connector terminal No. 3 and body ground.

THROTTLE BODY 6P CONNECTOR



Wire side of female terminals

Fig. 16: Checking Continuity Between Throttle Body 6P Connector Terminal No. 3 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

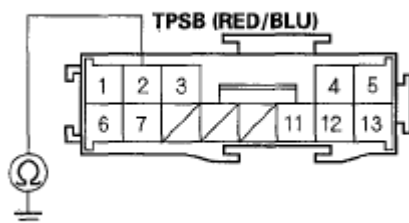
Is there continuity?

YES - Repair short in the wire between the throttle body and the C251 connector (TPSB line), then go to step 21.

NO - Go to step 9.

9. Disconnect the throttle actuator control module 16P connector.
10. Check for continuity between C251 connector (13P) terminal No. 2 and body ground.

C251 CONNECTOR (13P)



Terminal side of male terminals

Fig. 17: Checking Continuity Between C251 Connector (13P) Terminal No. 2 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

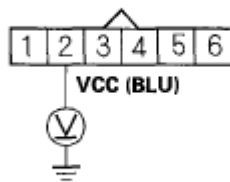
Is there continuity?

YES - Repair short in the wire between the throttle actuator control module and the C251 connector (TPSB line), then go to step 21.

NO - Go to step 26.

11. Measure voltage between throttle body 6P connector terminal No. 2 and body ground.

THROTTLE BODY 6P CONNECTOR



Wire side of female terminals

Fig. 18: Measuring Voltage Between Throttle Body 6P Connector Terminal No. 2 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

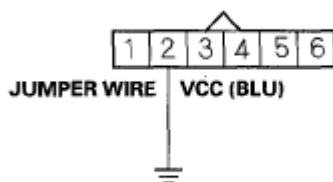
Is there about 5 V?

YES - Go to step 19.

NO - Go to step 12.

12. Turn the ignition switch OFF.
13. Disconnect the throttle body 6P connector.
14. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
15. Connect throttle body 6P connector terminal No. 2 to body ground with a jumper wire.

THROTTLE BODY 6P CONNECTOR



Wire side of female terminals

Fig. 19: Connecting Throttle Body 6P Connector Terminal No. 2 To Body Ground With A Jumper Wire

Courtesy of AMERICAN HONDA MOTOR CO., INC.

16. Check for continuity between C251 connector (13P) terminal No. 3 and body ground.

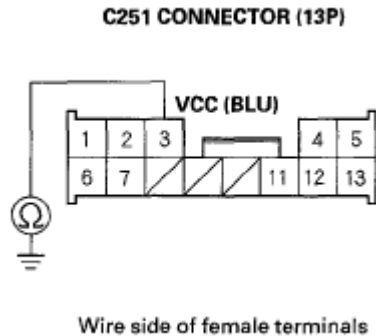


Fig. 20: Checking Continuity Between C251 Connector (13P) Terminal No. 3 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 21.

NO - Repair open in the wire between the throttle body and the throttle actuator control module (VCC line), then go to step 21.

17. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
18. Check for continuity between throttle actuator control module 16P connector terminal No. 11 and C251 connector (13P) terminal No. 3.

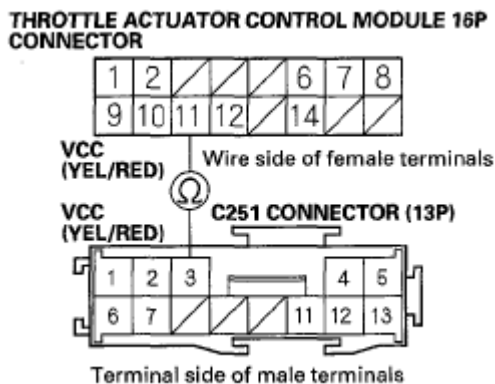


Fig. 21: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 11 And C251 (13P) Terminal 3
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 26.

NO - Repair open in the wire between the throttle actuator control module (VCC line) and the C251

connector, then go to step 21.

19. Turn the ignition switch OFF.
20. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
21. Reconnect all connectors.
22. Turn the ignition switch ON (II).
23. Reset the PCM with the HDS.
24. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
25. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0222 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

26. Reconnect all connectors.
27. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
28. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0222 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P0223: TP SENSOR B CIRCUIT HIGH VOLTAGE

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).**

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Check TP SENSOR A in the DATA LIST with the HDS.

Is there about 4.8 V or more?

YES - Go to step 4.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module.

4. Check for Temporary DTCs or DTCs with the HDS.

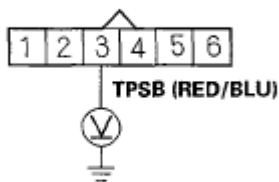
Are DTC P0123 and P0223 indicated at the same time?

YES - Go to step 13.

NO - Go to step 5.

5. Measure voltage between throttle body 6P connector terminal No. 3 and body ground.

THROTTLE BODY 6P CONNECTOR



Wire side of female terminals

Fig. 22: Measuring Voltage Between Throttle Body 6P Connector Terminal No. 3 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

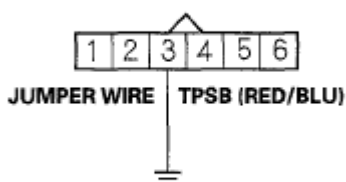
Is there about 5 V?

YES - Go to step 20.

NO - Go to step 6.

6. Turn the ignition switch OFF.
7. Disconnect the throttle body 6P connector.
8. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
9. Connect throttle body 6P connector terminal No. 3 to body ground with a jumper wire.

THROTTLE BODY 6P CONNECTOR

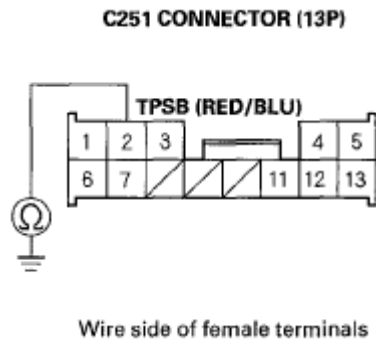


Wire side of female terminals

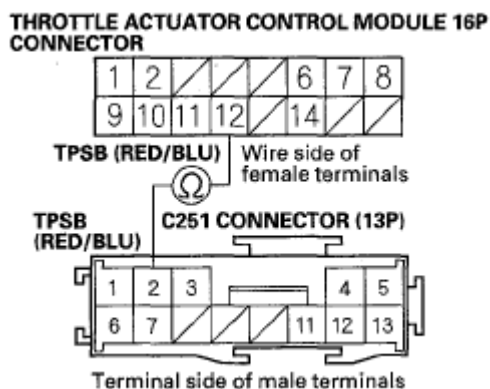
Fig. 23: Connecting Throttle Body 6P Connector Terminal No. 3 To Body Ground With Jumper Wire

Courtesy of AMERICAN HONDA MOTOR CO., INC.

10. Check for continuity between C251 connector (13P) terminal No. 2 and body ground.

**Fig. 24: Checking Continuity Between C251 Connector (13P) Terminal No. 2 And Body Ground**
Courtesy of AMERICAN HONDA MOTOR CO., INC.*Is there continuity?***YES** - Go to step 11.**NO** - Repair open in the wire between the throttle body and the C251 connector (TPSB line), then go to step 22.

11. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
12. Check for continuity between throttle actuator control module 16P connector terminal No. 12 and C251 connector (13P) terminal No. 2.

**Fig. 25: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 12 And C251 (13P) Terminal 2**

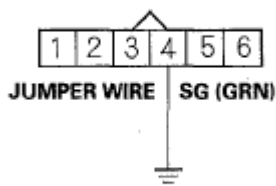
Courtesy of AMERICAN HONDA MOTOR CO., INC.

*Is there continuity?***YES** - Go to step 27.

NO - Repair open in the wire between the throttle actuator control module and the C251 connector (TPSB line), then go to step 22.

13. Turn the ignition switch OFF.
14. Disconnect the throttle body 6P connector.
15. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
16. Connect throttle body 6P connector terminal No. 4 to body ground with a jumper wire.

THROTTLE BODY 6P CONNECTOR



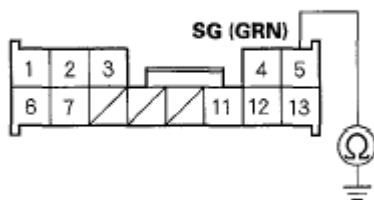
Wire side of female terminals

Fig. 26: Connecting Throttle Body 6P Connector Terminal No. 4 To Body Ground With Jumper Wire

Courtesy of AMERICAN HONDA MOTOR CO., INC.

17. Check for continuity between C251 connector (13P) terminal No. 5 and body ground.

C251 CONNECTOR (13P)



Wire side of female terminals

Fig. 27: Checking Continuity Between C251 Connector (13P) Terminal No. 5 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 18.

NO - Repair open in the wire between the throttle body and the C251 connector (SG line), then go to step 22.

18. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
19. Check for continuity between throttle actuator control module 16P connector terminal No. 9 and C251 connector (13P) terminal No. 5.

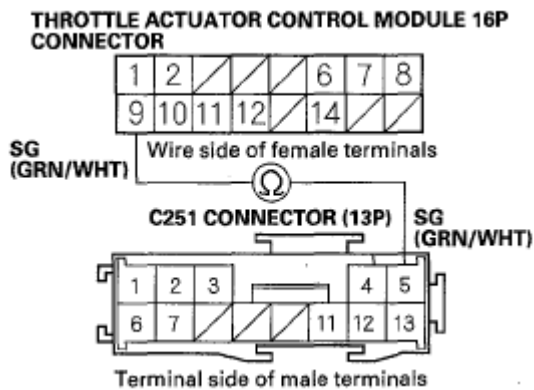


Fig. 28: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 9 And C251 (13P) Terminal 5

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 27.

NO - Repair open in the wire between the throttle actuator control module (SG line) and the C251 connector, then go to step 22.

20. Turn the ignition switch OFF.
21. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
22. Reconnect all connectors.
23. Turn the ignition switch ON (II).
24. Reset the PCM with the HDS.
25. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
26. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0223 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

27. Reconnect all connectors.
28. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
29. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0223 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P1683: THROTTLE VALVE DEFAULT POSITION SPRING PERFORMANCE PROBLEM

CAUTION: Do not insert your fingers into the installed throttle body when you turn the ignition switch ON (II) or while the ignition switch is ON (II). If you do, you will seriously injure your fingers if the throttle valve is activated.

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Start the engine. Hold the engine speed at 3,000 RPM without load (in Park or neutral) until the radiator fan comes on, then let it idle.
4. Turn the ignition switch OFF, and wait 10 seconds.
5. Turn the ignition switch ON (II).
6. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P1683 indicated?

YES - Go to step 7.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module.

7. Turn the ignition switch OFF.
8. Disconnect the intake air duct from the throttle body.
9. Push the throttle valve closed as shown.

NOTE:

- Do not operate the ignition switch during the check.
- Be careful not to pinch your fingers during the check.



Fig. 29: Pushing Throttle Valve Closed
Courtesy of AMERICAN HONDA MOTOR CO., INC.

10. Release the throttle valve.

Does the throttle valve return?

YES - Clean the throttle body (see **THROTTLE BODY CLEANING**), then go to step 13.

NO - Go to step 11.

11. Turn the ignition switch OFF.
12. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
13. Turn the ignition switch ON (II).
14. Reset the PCM with the HDS.
15. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
16. Turn the ignition switch OFF, and wait 10 seconds.
17. Turn the ignition switch ON (II).
18. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P1683 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P1684: THROTTLE VALVE RETURN SPRING PERFORMANCE PROBLEM

CAUTION: Do not insert your fingers into the installed throttle body when you turn the ignition switch ON (II) or while the ignition switch is ON (II). If you do, you will seriously injure your fingers if the throttle valve is activated.

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot,

and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Start the engine. Hold the engine speed at 3,000 RPM without load (in Park or neutral) until the radiator fan comes on, then let it idle.
4. Turn the ignition switch OFF, and wait 10 seconds.
5. Turn the ignition switch ON (II).
6. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P1684 indicated?

YES - Go to step 7.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module.

7. Turn the ignition switch OFF.
8. Disconnect the intake air duct from the throttle body.
9. Push the throttle valve open as shown.

NOTE:

- Do not operate the ignition switch during the check.
- Be careful not to pinch your fingers during the check.

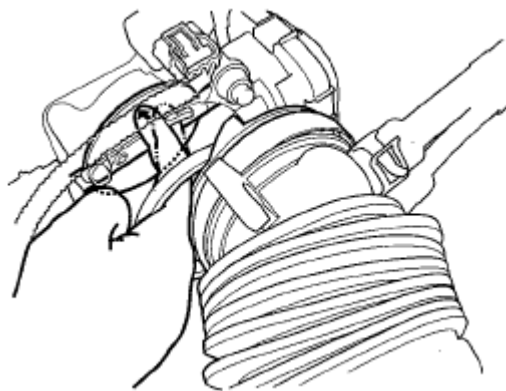


Fig. 30: Pushing Throttle Valve Open
Courtesy of AMERICAN HONDA MOTOR CO., INC.

10. Release the throttle valve.

Does the throttle valve return?

YES - Clean the throttle body (see THROTTLE BODY CLEANING), then go to step 13.

NO - Go to step 11.

11. Turn the ignition switch OFF.
12. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
13. Turn the ignition switch ON (II).
14. Reset the PCM with the HDS.
15. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
16. Turn the ignition switch OFF, and wait 10 seconds.
17. Turn the ignition switch ON (II).
18. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P1684 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2101: THROTTLE ACTUATOR SYSTEM MALFUNCTION

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).**

1. Clear the DTC with the HDS.
2. Do the ETCS TEST in the INSPECTION MENU with the HDS.
3. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2101 indicated?

YES - Go to step 6.

NO - Go to step 4.

4. Test-drive the vehicle for several minutes in the range of these recorded freeze data parameters:
 - ENGINE SPEED
 - VSS
 - APP SENSOR
5. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2101 indicated?

YES - Go to step 6.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then clean the throttle body (see **THROTTLE BODY CLEANING**).

6. Turn the ignition switch OFF.
7. Disconnect the intake air duct from the throttle body.
8. Turn the ignition switch ON (II).
9. Clear the DTC with the HDS.
10. Do the ETCS TEST in the INSPECTION MENU with the HDS.
11. Visually check the throttle valve operation,

NOTE: Be careful not to pinch your fingers during the check.

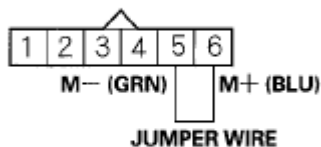
Does the throttle valve operate smoothly?

YES - Clean the throttle body (see **THROTTLE BODY CLEANING**), then go to step 21 and recheck. If DTC P2101 is indicated, go to step 19.

NO - Go to step 12.

12. Turn the ignition switch OFF.
13. Disconnect the throttle body 6P connector.
14. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
15. Connect throttle body 6P connector terminals No. 5 and No. 6 with a jumper wire.

THROTTLE BODY 6P CONNECTOR

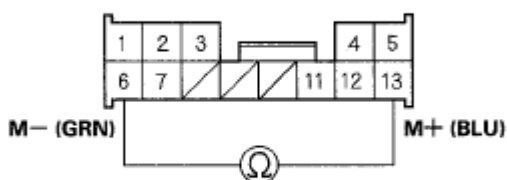


Wire side of female terminals

Fig. 31: Connecting Throttle Body 6P Connector Terminals No. 5 And No. 6 With Jumper Wire
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

16. Check for continuity between C251 connector (13P) terminals No. 6 and No. 13.

C251 CONNECTOR (13P)



Wire side of female terminals

Fig. 32: Checking Continuity Between C251 Connector (13P) Terminals No. 6 And No. 13
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 17.

NO - Repair open in the wire between the throttle body and the C251 connector (motor drive lines), then go to step 21.

17. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
18. Check for continuity between throttle actuator control module 16P connector terminals No. 1 and No. 8 and C251 connector (13P) terminals No. 6 and No. 13 individually.

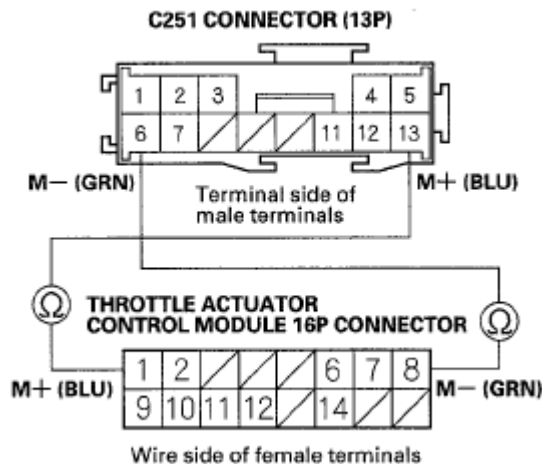


Fig. 33: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminals 1 And 8 And C251 (13P) Terminals 6 And 13
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 27.

NO - Repair open in the wires between the throttle actuator control module and the C251 connector (motor drive lines), then go to step 21.

19. Turn the ignition switch OFF.
20. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
21. Reconnect all connectors.
22. Turn the ignition switch ON (II).
23. Reset the PCM with the HDS.
24. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
25. Test-drive the vehicle for several minutes in the range of the recorded freeze data.
26. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2101 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then clean the throttle body (see **THROTTLE BODY CLEANING**), and go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

27. Reconnect all connectors.
28. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
29. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2101 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2108: THROTTLE ACTUATOR CONTROL MODULE PROBLEM

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).**

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Turn the ignition switch OFF.
4. Turn the ignition switch ON (II).
5. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2108 indicated?

YES - Substitute a known-good throttle actuator control module (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**), and recheck. If DTC P2108 is not indicated, replace the original throttle actuator control module (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body, the throttle actuator control module, and the PCM.

DTC P2118: THROTTLE ACTUATOR CURRENT RANGE/PERFORMANCE PROBLEM

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).

1. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
2. Measure resistance between C251 connector (13P) terminals No. 6 and No. 13.

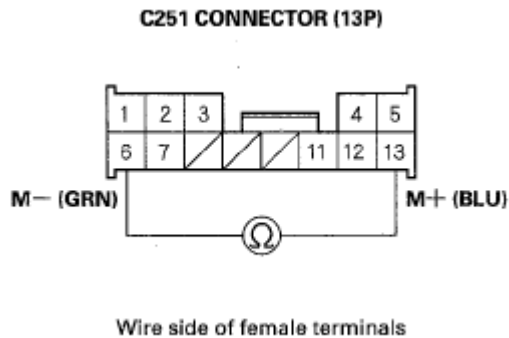


Fig. 34: Measuring Resistance Between C251 Connector (13P) Terminals No. 6 And No. 13
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

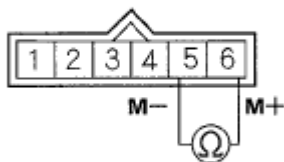
Is there about 1.0 or less?

YES - Go to step 3.

NO - Go to step 5.

3. Disconnect the throttle body 6P connector.
4. Measure resistance between throttle body 6P connector terminals No. 5 and No. 6 with the throttle fully closed.

THROTTLE BODY 6P CONNECTOR



Terminal side of male terminals

Fig. 35: Measuring Resistance Between Throttle Body 6P Connector Terminals No. 5 And No. 6
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 1.0 or less?

YES - Go to step 7.

NO - Repair short in the wires between the throttle body and the C251 connector (motor drive lines),

then go to step 8.

5. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
6. Check for continuity between body ground and C251 connector (13P) terminals No. 6 and No. 13 individually.

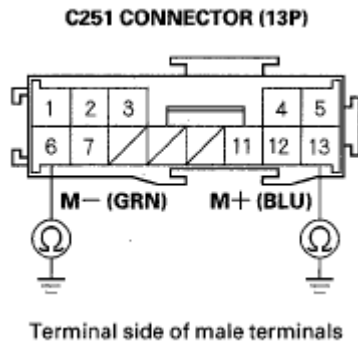


Fig. 36: Checking Continuity Between Body Ground And C251 Connector (13P) Terminals 6 And 13

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wires between the throttle actuator control module and the C251 connector (motor drive lines), then go to step 8.

NO - Go to step 16.

7. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
8. Reconnect all connectors.
9. Turn the ignition switch ON (II).
10. Reset the PCM with the HDS.
11. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
12. Turn the ignition switch OFF.
13. Turn the ignition switch ON (II).
14. Slowly press the accelerator pedal to the floor.
15. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2118 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

16. Reconnect all connectors.

17. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
18. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2118 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2122: APP SENSOR A (THROTTLE POSITION SENSOR D) CIRCUIT LOW VOLTAGE

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).

1. Turn the ignition switch ON (II).
2. Check APP SENSOR A in the DATA LIST with the HDS.

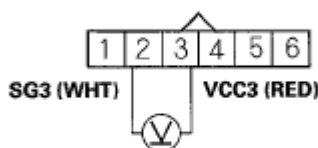
Is there about 0.1 V or less?

YES - Go to step 3.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at APP sensor A and the PCM.

3. Turn the ignition switch OFF.
4. Disconnect the APP sensor 6P connector.
5. Turn the ignition switch ON (II).
6. Measure voltage between APP sensor 6P connector terminals No. 2 and No. 3.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 37: Measuring Voltage Between APP Sensor 6P Connector Terminals No. 2 And No. 3
Courtesy of AMERICAN HONDA MOTOR CO., INC.

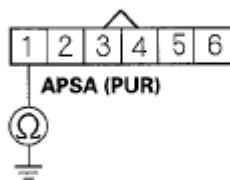
Is there about 5 V?

YES - Go to step 7.

NO - Go to step 17.

7. Turn the ignition switch OFF.
8. Jump the SCS line with the HDS.
9. Disconnect PCM connector D(17P).
10. Check for continuity between APP sensor 6P connector terminal No. 1 and body ground.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 38: Checking Continuity Between APP Sensor 6P Connector Terminal No. 1 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

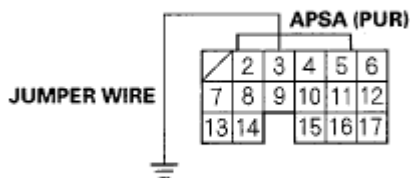
Is there continuity?

YES - Repair short in the wire between APP sensor A and the PCM (D3), then go to step 20.

NO - Go to step 11.

11. Connect PCM connector terminal D3 to body ground with a jumper wire.

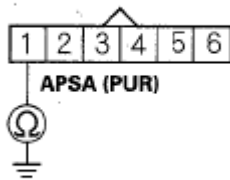
PCM CONNECTOR D (17P)



Wire side of female terminals

Fig. 39: Connecting PCM Connector Terminal D3 To Body Ground With Jumper Wire
Courtesy of AMERICAN HONDA MOTOR CO., INC.

12. Check for continuity between APP sensor 6P connector terminal No. 1 and body ground.

APP SENSOR 6P CONNECTOR

Wire side of female terminals

Fig. 40: Checking Continuity Between APP Sensor 6P Connector Terminal No. 1 And Body Ground

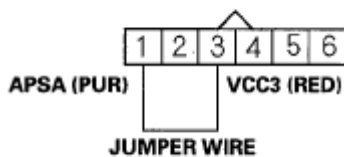
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 13.

NO - Repair open in the wire between APP sensor A and the PCM (D3), then go to step 20.

13. Reconnect PCM connector D (17P).
14. Connect APP sensor 6P connector terminals No. 1 and No. 3 with a jumper wire.

APP SENSOR 6P CONNECTOR

Wire side of female terminals

Fig. 41: Connecting APP Sensor 6P Connector Terminals No. 1 And No. 3 With Jumper Wire

Courtesy of AMERICAN HONDA MOTOR CO., INC.

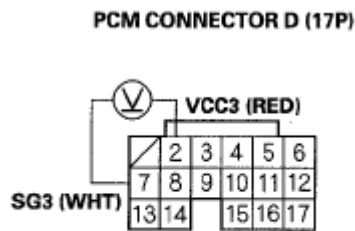
15. Turn the ignition switch ON (II).
16. Check APP SENSOR A in the DATA LIST with the HDS.

Is there about 0.1 V or less?

YES - Go to step 25.

NO - Go to step 18.

17. Measure voltage between PCM connector terminals D2 and D7.



Wire side of female terminals

Fig. 42: Measuring Voltage Between PCM Connector Terminals D2 And D7
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 5 V?

YES - Repair open in the wire between the PCM (D22) and APP sensor A, then go to step 20.

NO - Go to step 25.

18. Turn the ignition switch OFF.
19. Replace the accelerator pedal module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**).
20. Reconnect all connectors.
21. Turn the ignition switch ON (II).
22. Reset the PCM with the HDS.
23. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
24. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2122 indicated?

YES - Check for poor connections or loose terminals at APP sensor A and the PCM, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

25. Turn the ignition switch OFF.
26. Reconnect all connectors.
27. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
28. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2122 indicated?

YES - Check for poor connections or loose terminals at APP sensor A and the PCM. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the

original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2123: APP SENSOR A (THROTTLE POSITION SENSOR D) CIRCUIT HIGH VOLTAGE

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).

1. Turn the ignition switch ON (II).
2. Check APP SENSOR A in the DATA LIST with the HDS.

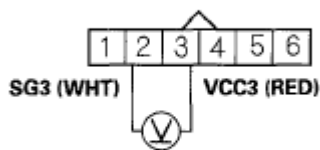
Is there about 4.9 V or more?

YES - Go to step 3.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at APP sensor A and the PCM.

3. Turn the ignition switch OFF.
4. Disconnect the APP sensor 6P connector.
5. Turn the ignition switch ON (II).
6. Measure voltage between APP sensor 6P connector terminals No. 2 and No. 3.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 43: Measuring Voltage Between APP Sensor 6P Connector Terminals No. 2 And No. 3
Courtesy of AMERICAN HONDA MOTOR CO., INC.

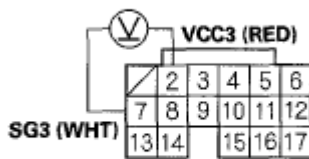
Is there about 5 V?

YES - Go to step 8.

NO - Go to step 7.

7. Measure voltage between PCM connector terminals D2 and D7.

PCM CONNECTOR D (17P)



Wire side of female terminals

Fig. 44: Measuring Voltage Between PCM Connector Terminals D2 And D7
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 5 V?

YES - Repair short in the wire between the PCM (D7) and APP sensor A, then go to step 10.

NO - Go to step 14.

8. Turn the ignition switch OFF.
9. Replace the accelerator pedal module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**).
10. Turn the ignition switch ON (II).
11. Reset the PCM with the HDS.
12. Do the idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
13. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2123 indicated?

YES - Check for poor connections or loose terminals at APP sensor A and the PCM, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

14. Turn the ignition switch OFF.
15. Reconnect all connectors.
16. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
17. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2123 indicated?

YES - Check for poor connections or loose terminals at APP sensor A and the PCM. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated,

go to the indicated DTCs troubleshooting.

DTC P2127: APP SENSOR B (THROTTLE POSITION SENSOR E) CIRCUIT LOW VOLTAGE

NOTE: Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).

1. Turn the ignition switch ON (II).
2. Check APP SENSOR A in the DATA LIST with the HDS.

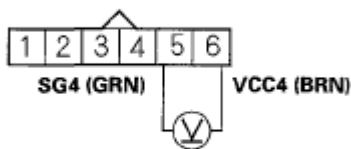
Is there about 0.1 V or less?

YES - Go to step 3.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at APP sensor B and the PCM.

3. Turn the ignition switch OFF.
4. Disconnect the APP sensor 6P connector.
5. Turn the ignition switch ON (II).
6. Measure voltage between APP sensor 6P connector terminals No. 5 and No. 6.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 45: Measuring Voltage Between APP Sensor 6P Connector Terminals No. 5 And No. 6
Courtesy of AMERICAN HONDA MOTOR CO., INC.

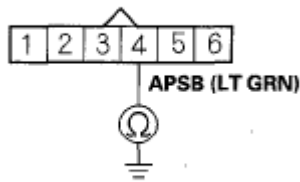
Is there about 5 V?

YES - Go to step 7.

NO - Go to step 17.

7. Turn the ignition switch OFF.
8. Jump the SCS line with the HDS.
9. Disconnect PCM connector D(17P).
10. Check for continuity between APP sensor 6P connector terminal No. 4 and body ground.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 46: Checking Continuity Between APP Sensor 6P Connector Terminal No. 4 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

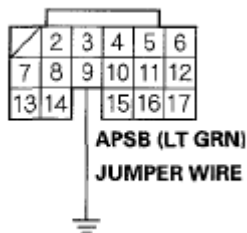
Is there continuity?

YES - Repair short in the wire between APP sensor B and the PCM (D9), then go to step 20.

NO - Go to step 11.

11. Connect PCM connector terminal D9 to body ground with a jumper wire.

PCM CONNECTOR D (17P)



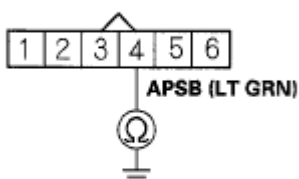
Wire side of female terminals

Fig. 47: Connecting PCM Connector Terminal D9 To Body Ground With A Jumper Wire

Courtesy of AMERICAN HONDA MOTOR CO., INC.

12. Check for continuity between APP sensor 6P connector terminal No. 4 and body ground.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 48: Checking Continuity Between APP Sensor 6P Connector Terminal No. 4 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

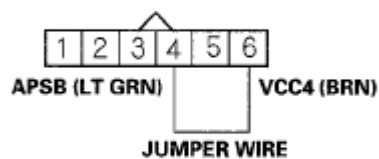
YES - Go to step 13.

NO - Repair open in the wire between APP sensor B and the PCM (D9), then go to step 20.

13. Reconnect PCM connector D (17P).

14. Connect APP sensor 6P connector terminals No. 4 and No. 6 with a jumper wire.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 49: Connecting APP Sensor 6P Connector Terminals No. 4 And No. 6 With Jumper Wire
Courtesy of AMERICAN HONDA MOTOR CO., INC.

15. Turn the ignition switch ON (II).

16. Check APP SENSOR B in the DATA LIST with the HDS.

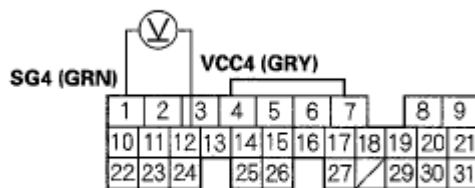
Is there about 0.1 V or less?

YES - Go to step 25.

NO - Go to step 18.

17. Measure voltage between PCM connector terminals E1 and E12.

PCM CONNECTOR E (31P)



Wire side of female terminals

Fig. 50: Measuring Voltage Between PCM Connector Terminals E1 And E12
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 5 V?

YES - Repair open in the wire between the PCM (E12) and APP sensor B, then go to step 20.

NO - Go to step 25.

18. Turn the ignition switch OFF.
19. Replace the accelerator pedal module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**).
20. Reconnect all connectors.
21. Turn the ignition switch ON (II).
22. Reset the PCM with the HDS.
23. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
24. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2127 indicated?

YES - Check for poor connections or loose terminals at APP sensor B and the PCM, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

25. Reconnect all connectors.
26. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
27. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2127 indicated?

YES - Check for poor connections or loose terminals at APP sensor B and the PCM. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2128: APP SENSOR B (THROTTLE POSITION SENSOR E) CIRCUIT HIGH VOLTAGE

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).**

1. Turn the ignition switch ON (II).
2. Check APP SENSOR B in the DATA LIST with the HDS.

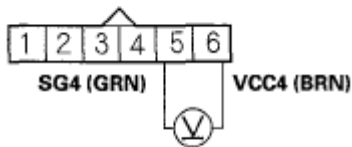
Is there about 4.9 V or more?

YES - Go to step 3.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at APP sensor B and the PCM.

3. Turn the ignition switch OFF.
4. Disconnect the APP sensor 6P connector.
5. Turn the ignition switch ON (II).
6. Measure voltage between APP sensor 6P connector terminals No. 5 and No. 6.

APP SENSOR 6P CONNECTOR



Wire side of female terminals

Fig. 51: Measuring Voltage Between APP Sensor 6P Connector Terminals No. 5 And No. 6
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 5 V?

YES - Go to step 8.

NO - Go to step 7.

7. Measure voltage between PCM connector terminals E1 and E12.

PCM CONNECTOR E (31P)



Wire side of female terminals

Fig. 52: Measuring Voltage Between PCM Connector Terminals E1 And E12
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there about 5 V?

YES - Repair open in the wire between the PCM (E1) and APP sensor B, then go to step 10.

NO - Go to step 14.

8. Turn the ignition switch ON (II).
9. Replace the accelerator pedal module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**).

10. Turn the ignition switch ON (II).
11. Reset the PCM with the HDS.
12. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
13. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2128 indicated?

YES - Check for poor connections or loose terminals at APP sensor B and the PCM, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

14. Turn the ignition switch OFF.
15. Reconnect all connectors.
16. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
17. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2128 indicated?

YES - Check for poor connections or loose terminals at APP sensor B and the PCM. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2135: TP SENSOR A/B VOLTAGE INCORRECT CORRELATION

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).**

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Do the ETCS TEST in the INSPECTION MENU with the HDS.
4. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2135 indicated?

YES - Go to step 5.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module.

5. Turn the ignition switch OFF.

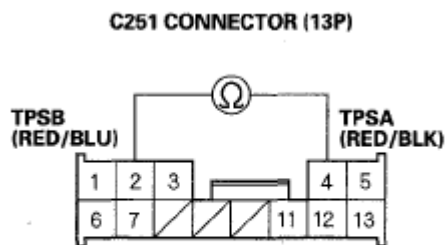
6. Disconnect the intake air duct from the throttle body.
7. Turn the ignition switch ON (II).
8. Clear the DTC with the HDS.
9. Visually check the throttle valve operation.

Does the valve move to the fully closed position temporarily?

YES - Go to step 17.

NO - Go to step 10.

10. Turn the ignition switch OFF.
11. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
12. Check for continuity between C251 connector (13P) terminals No. 2 and No. 4.



Wire side of female terminals

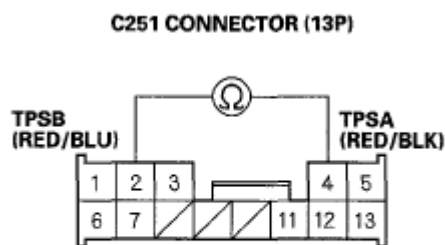
Fig. 53: Checking Continuity Between C251 Connector (13P) Terminals No. 2 And No. 4
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 13.

NO - Go to step 15.

13. Disconnect the throttle body 6P connector.
14. Check for continuity between C251 connector (13P) terminals No. 2 and No. 4.



Wire side of female terminals

Fig. 54: Checking Continuity Between C251 Connector (13P) Terminals No. 2 And No. 4
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the TPSA line and the TPSB line, then go to step 19.

NO - Go to step 17.

15. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
16. Check for continuity between C251 connector (13P) terminals No. 2 and No. 4.

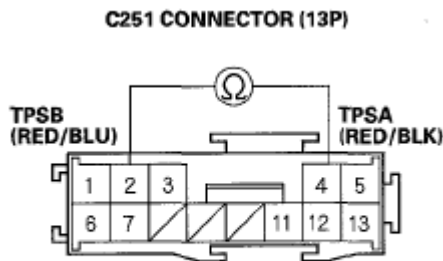


Fig. 55: Checking Continuity Between C251 Connector (13P) Terminals No. 2 And No. 4
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the TPSA line and the TPSB line of the throttle actuator control module subharness, then go to step 19.

NO - Go to step 24.

17. Turn the ignition switch OFF.
18. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
19. Reconnect all connectors.
20. Turn the ignition switch ON (II).
21. Reset the PCM with the HDS.
22. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
23. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2135 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

24. Reconnect all connectors.
25. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
26. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2135 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2138: APP SENSOR A/B INCORRECT VOLTAGE CORRELATION

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).**

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Press the accelerator pedal to the floor.
4. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2138 indicated?

YES - Go to step 5.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the APP sensor and the PCM.

5. Check APP SENSOR A and APP SENSOR B in the DATA LIST with the HDS.

Are they the same voltage?

YES - Go to step 6.

NO - Go to step 11.

6. Turn the ignition switch OFF.
7. Jump the SCS line with the HDS.
8. Disconnect the APP sensor 6P connector.
9. Disconnect PCM connector D(17P).
10. Check for continuity between PCM connector terminals D3 and D9.

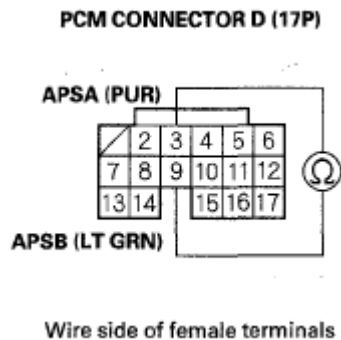


Fig. 56: Checking Continuity Between PCM Connector Terminals D3 And D9
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wires between the PCM terminals (D3, D9), then go to step 13.

NO - Go to step 21.

11. Turn the ignition switch OFF.
12. Replace the accelerator pedal module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**).
13. Reconnect all connectors.
14. Turn the ignition switch ON (II).
15. Reset the PCM with the HDS.
16. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
17. Turn the ignition switch OFF.
18. Turn the ignition switch ON (II).
19. Press the accelerator pedal to the floor.
20. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2138 indicated?

YES - Check for poor connections or loose terminals at the APP sensor and the PCM, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

21. Reconnect all connectors.
22. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
23. Turn the ignition switch OFF.
24. Turn the ignition switch ON (II).
25. Press the accelerator pedal to the floor.
26. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2138 indicated?

YES - Check for poor connections or loose terminals at the APP sensor and the PCM. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2176: THROTTLE ACTUATOR CONTROL SYSTEM IDLE POSITION NOT LEARNED

NOTE:

- **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).**
- **If DTC P2135 or P2552 is stored at the same time as DTC P2176, troubleshoot DTC P2135 or P2552 first, then recheck for DTC P2176.**

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Turn the ignition switch OFF.
4. Turn the ignition switch ON (II), and wait 10 seconds.
5. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2176 indicated?

YES - Go to step 6.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then clean the throttle body (see **THROTTLE BODY CLEANING**).

6. Turn the ignition switch OFF.
7. Disconnect the intake air duct from the throttle body.
8. Turn the ignition switch ON (II).
9. Clear the DTC with the HDS.
10. Do the ETCS TEST in the INSPECTION MENU with the HDS.
11. Visually check the throttle valve operation.

NOTE: **Be careful not to pinch your fingers. Keep your hands away from the throttle valve.**

Does the throttle valve move to its fully closed position?

YES - Go to step 12.

NO - Go to step 13.

12. Check for sludge or carbon on the throttle valve.

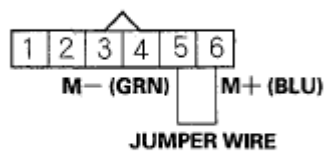
Is there sludge or carbon on the throttle valve?

YES - Clean the throttle body (see **THROTTLE BODY CLEANING**), then go to step 23 and recheck.

NO - Go to step 20.

13. Turn the ignition switch OFF.
 14. Disconnect the throttle body 6P connector.
 15. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
 16. Connect throttle body 6P connector terminals No. 5 and No. 6 with a jumper wire.

THROTTLE BODY 6P CONNECTOR

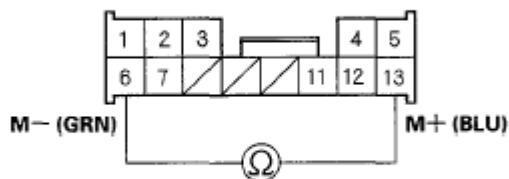


Wire side of female terminals

Fig. 57: Connecting Throttle Body 6P Connector Terminals No. 5 And No. 6 With Jumper Wire
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

17. Check for continuity between C251 connector (13P) terminals No. 6 and No. 13.

C251 CONNECTOR (13P)



Wire side of female terminals

Fig. 58: Checking Continuity Between C251 Connector (13P) Terminals No. 6 And No. 13
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 18.

NO - Repair open in the wires between the throttle body and the C251 connector (motor drive lines), then go to step 22.

18. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
19. Check for continuity between throttle actuator control module 16P connector terminals No. 1 and No. 8 and C251 connector (13P) terminals No. 6 and No. 13 individually.

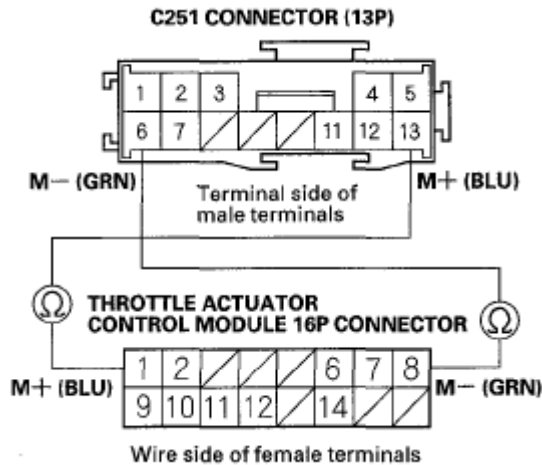


Fig. 59: Checking Continuity Between Throttle Actuator Control Module 16P Terminals 1 And 8 And C251 (13P) Terminals 6 And 13

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 29.

NO - Repair open in the wires between the throttle actuator control module and the C251 connector (motor drive lines), then go to step 22.

20. Turn the ignition switch OFF.
21. Replace the throttle body (see **THROTTLE BODY REMOVAL/INSTALLATION**).
22. Reconnect all connectors.
23. Turn the ignition switch ON (II).
24. Reset the PCM with the HDS.
25. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
26. Turn the ignition switch OFF.
27. Turn the ignition switch ON (II), and wait 10 seconds.
28. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2176 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module, then clean the throttle body (see **THROTTLE BODY CLEANING**), and go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

29. Reconnect all connectors.
30. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
31. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2176 indicated?

YES - Check for poor connections or loose terminals at the throttle body and the throttle actuator control module. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC P2552: THROTTLE ACTUATOR CONTROL MODULE RELAY MALFUNCTION

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION**).**

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Do the ETCS TEST in the INSPECTION MENU with the HDS.

Is the RELAY circuit OK?

YES - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle actuator control module relay, the throttle actuator control module, and the PCM.

NO - Go to step 4.

4. Turn the ignition switch OFF.
5. Jump the SCS line with the HDS.
6. Remove the throttle actuator control module relay (A).

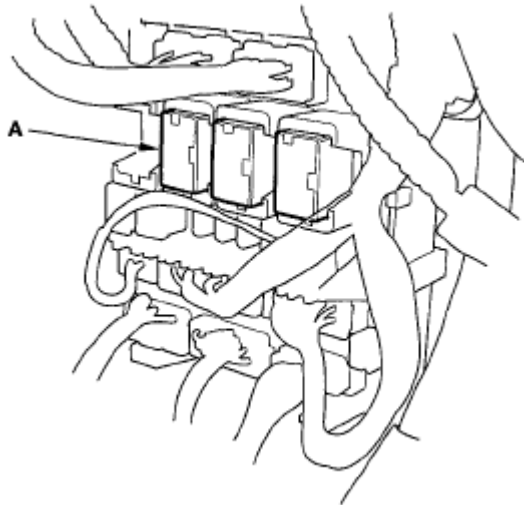


Fig. 60: Identifying Throttle Actuator Control Module Relay
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

7. Disconnect PCM connector E (31P).
8. Check for continuity between PCM connector terminal E3 and body ground.

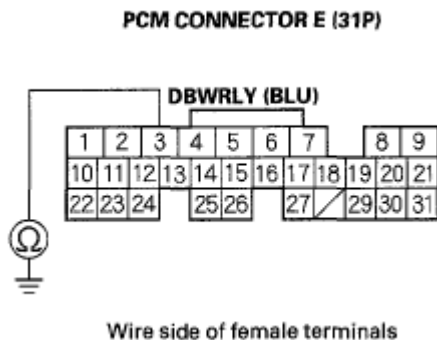


Fig. 61: Checking Continuity Between PCM Connector Terminal E3 And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle actuator control module relay and the PCM (E3), then go to step 10.

NO - Go to step 9.

9. Test the throttle actuator control module relay (see **POWER RELAY TEST**).

Is the relay OK?

YES - Go to step 17.

NO - Replace the throttle actuator control module relay, then go to step 10.

10. Reconnect PCM connector E (31P).

11. Turn the ignition switch ON (II).
12. Reset the PCM with the HDS.
13. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
14. Turn the ignition switch OFF.
15. Turn the ignition switch ON (II), and wait 10 seconds.
16. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2552 indicated?

YES - Check for poor connections or loose terminals at the throttle actuator control module, the throttle actuator control module relay, and the PCM, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

17. Reconnect all connectors.
18. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
19. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P2552 indicated?

YES - Check for poor connections or loose terminals at the throttle actuator control module, the throttle actuator control module relay, and the PCM. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

DTC U0107: LOST COMMUNICATION WITH THROTTLE ACTUATOR CONTROL MODULE

NOTE: **Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).**

1. Turn the ignition switch ON (II).
2. Clear the DTC with the HDS.
3. Check for Temporary DTCs or DTCs with the HDS.

Is DTC U0107 indicated?

YES - Check for, and repair any poor connections or loose terminals at the throttle body, the throttle actuator control module, and the PCM, then go to step 62. If the connections and terminals are OK, go to step 6.

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2005-08 ENGINE PERFORMANCE Electronic Throttle Control System - RL

NO - Go to step 4.

4. Start the engine.
5. Check for Temporary DTCs or DTCs with the HDS.

Is DTC U0107 indicated?

YES - Go to step 48.

NO - Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the throttle body, the throttle actuator control module relay, the throttle actuator control module, and the PCM.

6. Clear the DTC with the HDS.
7. Turn the ignition switch OFF.
8. Disconnect the intake air duct from the throttle body.
9. Press the accelerator pedal to the floor.
10. Turn the ignition switch ON (II).
11. Check the throttle valve operation.

Does the throttle valve open after it closes?

YES - Go to step 12.

NO - Go to step 13.

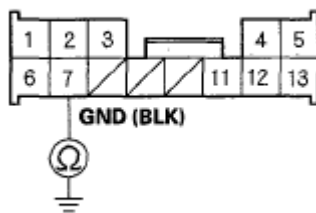
12. Check the throttle valve again.

Does the throttle valve open fully?

YES - Go to step 42.

NO - Go to step 36.

13. Turn the ignition switch OFF.
14. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
15. Check for continuity between C251 connector (13P) terminal No. 7 and body ground.

C251 CONNECTOR (13P)

Wire side of female terminals

Fig. 62: Checking Continuity Between C251 Connector (13P) Terminal No. 7 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 16.

NO - Repair open in the wire between the C251 connector and G101, then go to step 63.

16. Remove the throttle actuator control module relay (A).

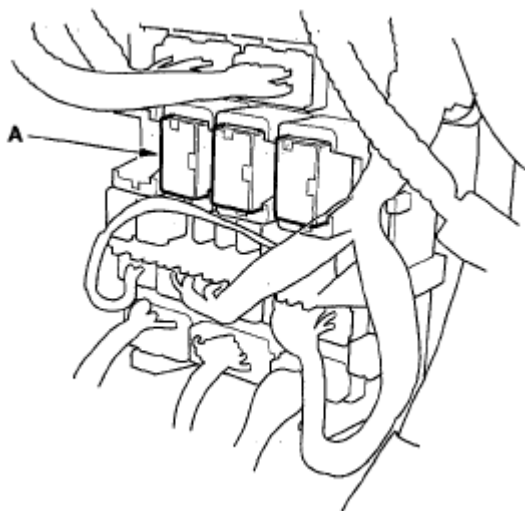
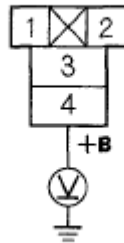


Fig. 63: Identifying Throttle Actuator Control Module Relay
Courtesy of AMERICAN HONDA MOTOR CO., INC.

17. Measure voltage between throttle actuator control module relay 4P connector terminal No. 4 and body ground.

**THROTTLE ACTUATOR CONTROL
MODULE RELAY 4P CONNECTOR**

Terminal side of female terminals

Fig. 64: Measuring Voltage Between Throttle Actuator Control Module Relay 4P Connector Terminal 4 And Body Ground

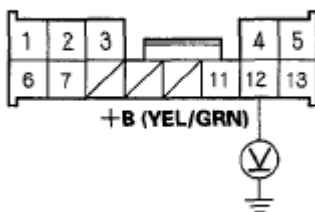
Courtesy of AMERICAN HONDA MOTOR CO., INC.

*Is there battery voltage?***YES** - Go to step 19.**NO** - Go to step 18.

18. Check the No. 1 THROTTLE ACTUATOR CONTROL (15A) fuse in the driver's under-dash fuse/relay box.

*Is the fuse OK?***YES** - Repair open in the wire between the throttle actuator control module relay (+B line) and the No. 1 THROTTLE ACTUATOR CONTROL (15A) fuse, then go to step 63.**NO** - Repair short in the wire between the throttle actuator control module relay (+B line) and the No. 1 THROTTLE ACTUATOR CONTROL (15A) fuse, then go to step 63.

19. Install the throttle actuator control module relay.
20. Turn the ignition switch ON (II).
21. Measure voltage between C251 connector (13P) terminal No. 12 and body ground.

C251 CONNECTOR (13P)

Wire side of female terminals

Fig. 65: Measuring Voltage Between C251 Connector (13P) Terminal No. 12 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.*Is there battery voltage for about 2 seconds?*

YES - Go to step 52.

NO - Go to step 22.

22. Turn the ignition switch OFF.
23. Remove the throttle actuator control module relay (A).

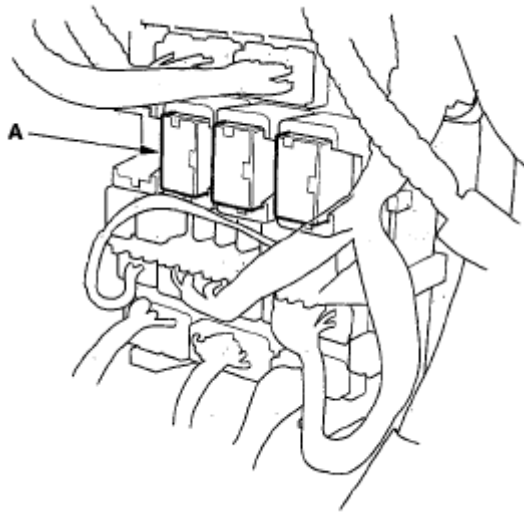


Fig. 66: Identifying Throttle Actuator Control Module Relay
Courtesy of AMERICAN HONDA MOTOR CO., INC.

24. Check the throttle actuator control module relay (see **POWER RELAY TEST**).

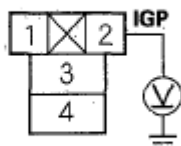
Is the throttle actuator control module relay OK?

YES - Go to step 25.

NO - Replace the throttle actuator control module relay, then go to step 63.

25. Turn the ignition switch ON (II).
26. Measure voltage between throttle actuator control module relay 4P connector terminal No. 2 and body ground.

**THROTTLE ACTUATOR CONTROL
MODULE RELAY 4P CONNECTOR**



Terminal side of female terminals

Fig. 67: Measuring Voltage Between Throttle Actuator Control Module Relay 4P Connector Terminal 2 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES - Go to step 27.

NO - Repair open in the wire between the throttle actuator control module relay and PGM-FI main relay 1 (FI MAIN), then go to step 62.

27. Turn the ignition switch OFF.
28. Jump the SCS line with the HDS.
29. Disconnect PCM connector E (31P).
30. Check for continuity between PCM connector terminal E3 and throttle actuator control module relay 4P connector terminal No. 1.

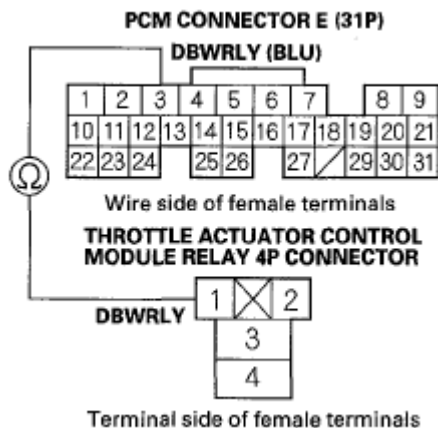


Fig. 68: Checking Continuity Between PCM Connector Terminal E3 And Throttle Actuator Control Module Relay 4P Terminal 1

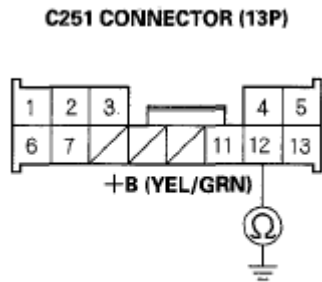
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 31.

NO - Repair open in the wire between the PCM (E3) and the throttle actuator control module relay, then go to step 63.

31. Check for continuity between C251 connector (13P) terminal No. 12 and body ground.



Wire side of female terminals

Fig. 69: Checking Continuity Between C251 Connector (13P) Terminal No. 12 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle actuator control module and the throttle actuator control module relay (+B line), then go to step 63.

NO - Go to step 32.

32. Check for continuity between throttle actuator control module relay 4P connector terminal No. 3 and C251 connector (13P) terminal No. 12.

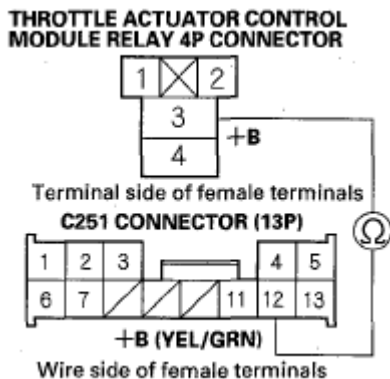


Fig. 70: Checking Continuity Between Throttle Actuator Control Module Relay 4P Connector Terminal 3 And C251 (13P) Terminal 12

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 33.

NO - Repair open in the wire between the throttle actuator control module relay and the C251 connector (+B line), then go to step 63.

33. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
34. Check for continuity between C251 connector (13P) terminal No. 12 and body ground.

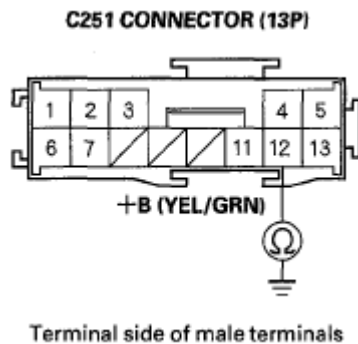


Fig. 71: Checking Continuity Between C251 Connector (13P) Terminal No. 12 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

NO - Go to step 35.

35. Check for continuity between throttle actuator control module 16P connector terminal No. 2 and C251 connector (13P) terminal No. 12.

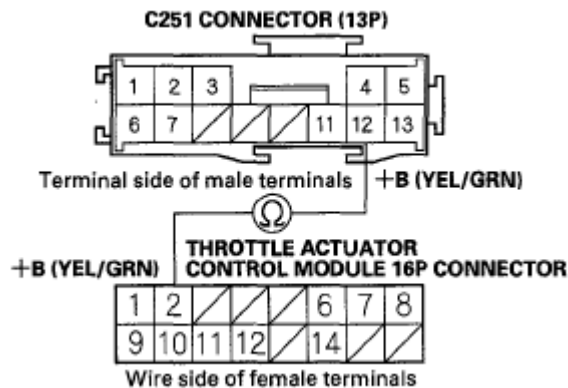


Fig. 72: Checking Continuity Between Throttle Actuator Control Module 16P Terminal 2 And C251 (13P) Terminal 12

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 68.

NO - Repair open in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

36. Turn the ignition switch OFF.
37. Jump the SCS line with the HDS.
38. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control

module subharness.

39. Disconnect PCM connector A (31P).
40. Check for continuity between PCM connector terminals A25 and body ground.

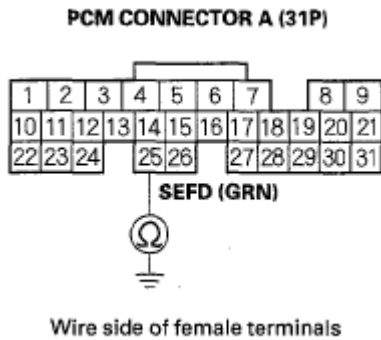


Fig. 73: Checking Continuity Between PCM Connector Terminals A25 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the PCM (A25) and the C251 connector, then go to step 63.

NO - Go to step 41.

41. Check for continuity between PCM connector terminal A25 and C251 connector (13P) terminal No. 11.

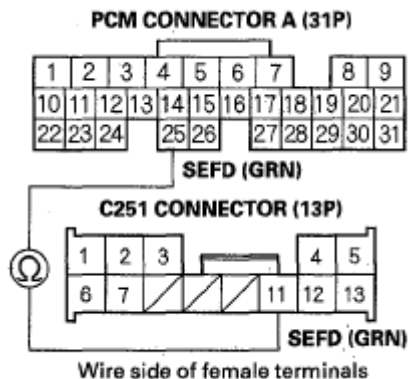


Fig. 74: Checking Continuity Between PCM Connector Terminal A25 And C251(13P) Terminal 11
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 56.

NO - Repair open in the wire between the PCM (A25) and the C251 connector, then go to step 63.

42. Turn the ignition switch OFF.
43. Jump the SCS line with the HDS.

44. Disconnect the C251 connector (13P) between the PCM subharness and the throttle actuator control module subharness.
45. Disconnect PCM connector A (31P).
46. Check for continuity between PCM connector terminal A26 and body ground.

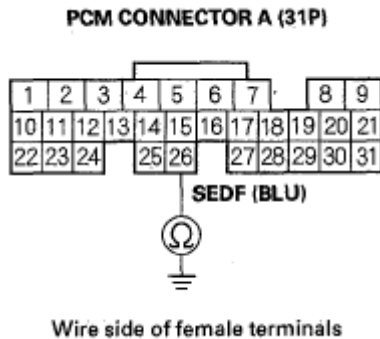


Fig. 75: Checking Continuity Between PCM Connector Terminal A26 And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the PCM (A26) and the C251 connector, then go to step 63.

NO - Go to step 47.

47. Check for continuity between PCM connector terminal A26 and C251 connector (13P) terminal No. 1.

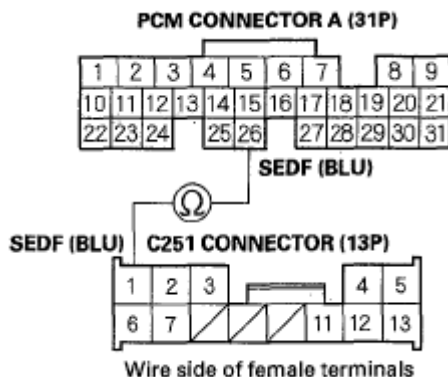


Fig. 76: Checking Continuity Between PCM Connector Terminal A26 And C251 Connector (13P) Terminal No. 1
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 59.

NO - Repair open in the wire between the PCM (A26) and the C251 connector, then go to step 63.

48. Turn the ignition switch OFF.
49. Jump the SCS line with the HDS.

50. Disconnect PCM connectors A (31P) and B (24P).
51. Check for continuity between body ground and PCM connector terminals A3 and B15 individually.

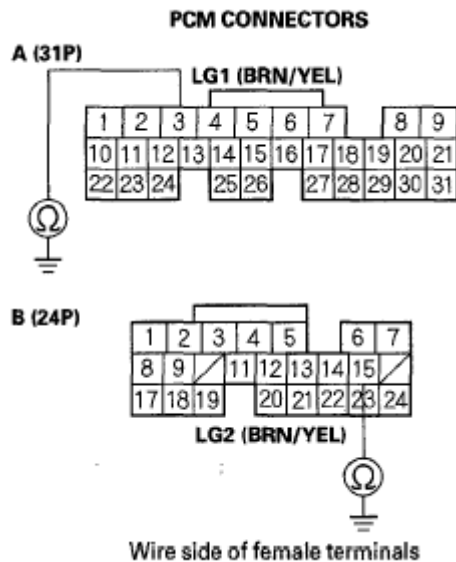


Fig. 77: Checking Continuity Between Body Ground And PCM Connector Terminals A3 And B15

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Check for poor connections or loose terminals at the throttle body, the throttle actuator control module relay, the throttle actuator control module, and the PCM, then go to step 1.

NO - Repair open in the wire between the PCM (A3, B15) and G101, then go to step 63.

52. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
53. Check for continuity between throttle actuator control module 16P connector terminal No. 7 and C251 connector (13P) terminal No. 7.

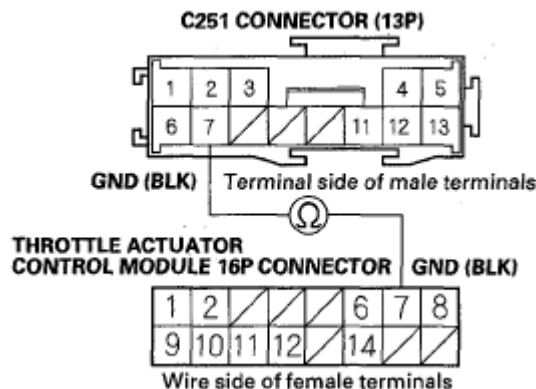


Fig. 78: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 7 And C251 (13P) Terminal 7

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Go to step 54.

NO - Repair open in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

54. Check for continuity between C251 connector (13P) terminal No. 12 and body ground.

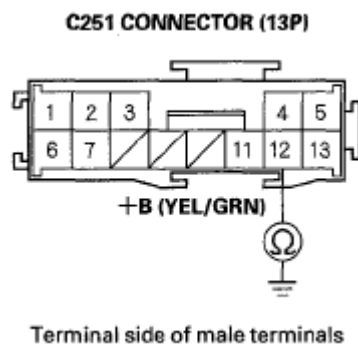


Fig. 79: Checking Continuity Between C251 Connector (13P) Terminal No. 12 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

NO - Go to step 55.

55. Check for continuity between throttle actuator control module 16P connector terminal No. 2 and C251 connector (13P) terminal No. 12.

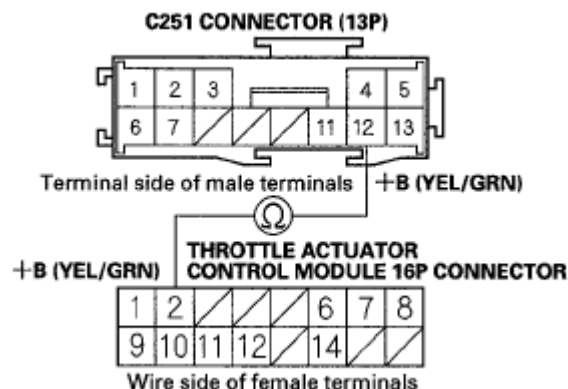


Fig. 80: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 2 And C251 (13P) Terminal 12

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Substitute a known-good throttle actuator control module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**), then go to step 63 and recheck. If DTC U0107 is not indicated, replace the original throttle actuator control module (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**), then go to step 63.

NO - Repair open in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

56. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
57. Check for continuity between C251 connector (13P) terminals No. 11 and body ground.

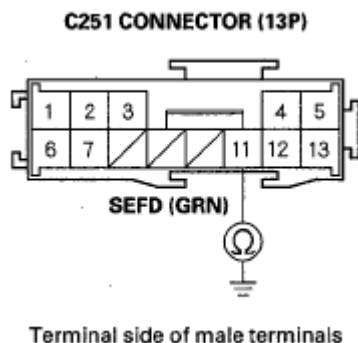


Fig. 81: Checking Continuity Between C251 Connector (13P) Terminals No. 11 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

NO - Go to step 58.

58. Check for continuity between throttle actuator control module 16P connector terminal No. 6 and C251 connector (13P) terminal No. 11.

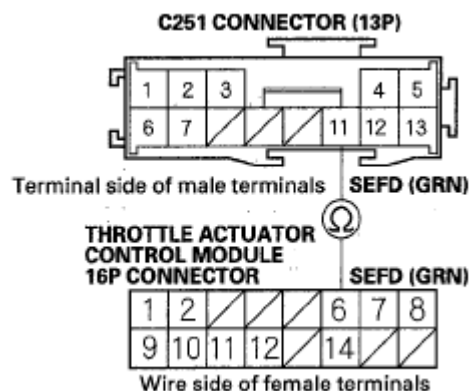


Fig. 82: Checking Continuity Between Throttle Actuator Control Module 16P Connector Terminal 6 And C251 (13P) Terminal 11

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Substitute a known-good throttle actuator control module (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**), then go to step 63 and recheck. If DTC U0107 is not indicated, replace the original throttle actuator control module (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**), then go to step 63.

NO - Repair open in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

59. Disconnect the throttle actuator control module 16P connector (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**).
60. Check for continuity between C251 connector (13P) terminals No. 1 and body ground.

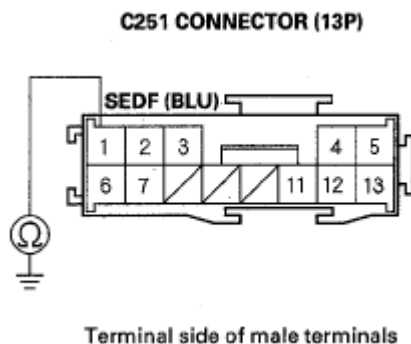


Fig. 83: Checking Continuity Between C251 Connector (13P) Terminals No. 1 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Repair short in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

NO - Go to step 61.

61. Check for continuity between throttle actuator control module 16P connector terminal No. 14 and C251 connector (13P) terminal No. 1.

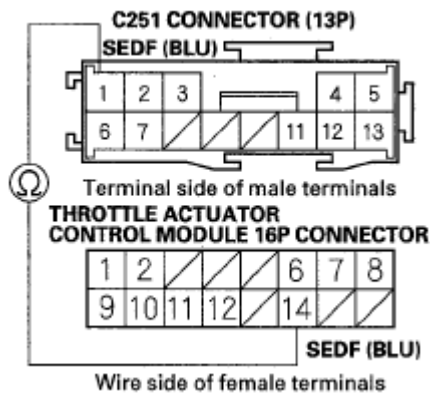


Fig. 84: Checking Continuity Between Throttle Actuator Control Module 16P Terminal 14 And C251 (13P) Terminal 1

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES - Substitute a known-good throttle actuator control module (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**), then go to step 63 and recheck. If DTC U0107 is not indicated, replace the original throttle actuator control module (see **THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT**), then go to step 63.

NO - Repair open in the wire between the throttle actuator control module and the C251 connector, then go to step 63.

62. Turn the ignition switch OFF.
63. Reconnect all connectors.
64. Turn the ignition switch ON (II).
65. Reset the PCM with the HDS.
66. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE**).
67. Check for Temporary DTCs or DTCs with the HDS.

Is DTC U0107 indicated?

YES - Check for poor connections or loose terminals at the throttle body, the throttle actuator control module relay, the throttle actuator control module, and the PCM, then go to step 1.

NO - Troubleshooting is complete. If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

68. Reconnect all connectors.
69. Update the PCM if it does not have the latest software (see **UPDATING THE PCM**), or substitute a known-good PCM (see **SUBSTITUTING THE PCM**).
70. Check for Temporary DTCs or DTCs with the HDS.

Is DTC U0107 indicated?

YES - Check for poor connections or loose terminals at the throttle body, the throttle actuator control

module relay, the throttle actuator control module, and the PCM. If the PCM was updated, substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then recheck. If the PCM was substituted, go to step 1.

NO - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT**). If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

APP SENSOR SIGNAL INSPECTION

NOTE:

- This procedure checks the APP sensor in its fully closed position. In any other position, the APP sensor stores DTCs which are covered in other troubleshooting procedures.
- Check for Temporary DTCs or DTCs with the HDS before doing this procedure. If any DTCs are indicated, troubleshoot them first, then do this procedure.
- Press the accelerator pedal several times to check its operation. If it does not operate properly, check the pedal. If you find a problem, replace the accelerator pedal module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**).

1. Connect the HDS to the data link connector (DLC) (A) located under the driver's side of the dashboard.

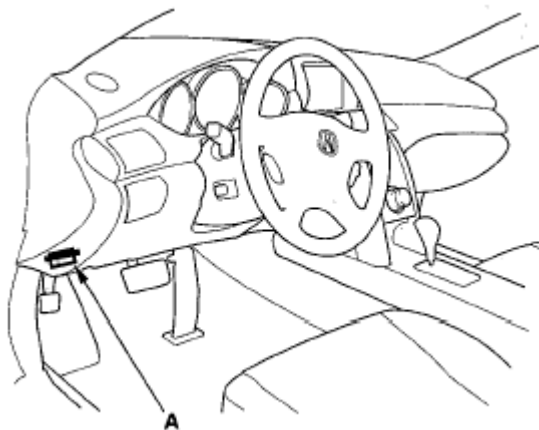


Fig. 85: Connecting HDS To Data Link Connector (DLC)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Turn the ignition switch ON (II).
3. Make sure the HDS communicates with the PCM and other vehicle systems. If it does not, go to the DLC circuit troubleshooting (see **DLC CIRCUIT TROUBLESHOOTING**).
4. Make sure the accelerator pedal is not pressed, then check the APP SENSOR in the DATA LIST with the HDS.
 - If it is 0 %, the APP sensor is OK.
 - If it is not 0 %, update the PCM if it does not have the latest software, or substitute a known-good PCM (see **SUBSTITUTING THE PCM**), then go to step 5.

5. Make sure the accelerator pedal is not pressed, then check the APP SENSOR in the DATA LIST with the HDS.
 - If it is 0 %, the APP sensor is OK.
 - If it is not 0 %, replace the accelerator pedal module (see **ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION**), then go to step 1.

ACCELERATOR PEDAL MODULE REMOVAL/INSTALLATION

1. Disconnect the APP sensor connector (A).

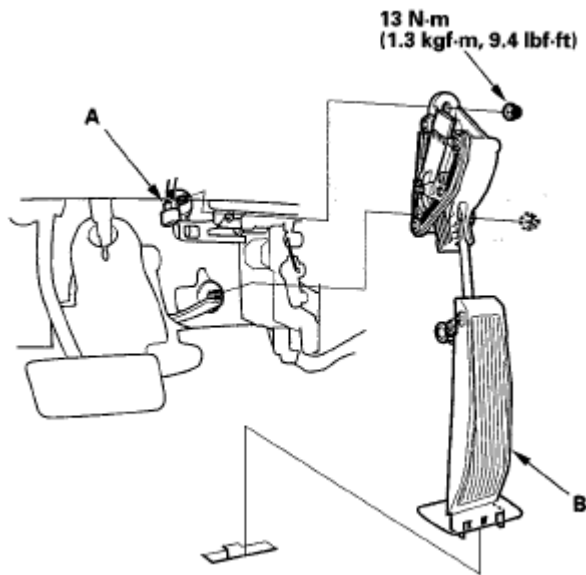


Fig. 86: Identifying APP Sensor Connector With Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Release the lock tab on the base of the accelerator pedal, then remove the accelerator pedal module (B).
3. Install the parts in the reverse order of removal.

THROTTLE ACTUATOR CONTROL MODULE REPLACEMENT

1. Remove the right kick panel (see step 3 under **TRIM REMOVAL/INSTALLATION - DOOR AREAS**).
2. Remove the glove box (see **GLOVE BOX REMOVAL/INSTALLATION**).
3. Remove the HandsFreeLink control unit (see **CONTROL UNIT INPUT TEST**) and the adaptive cruise control (ACC) unit and its bracket (if equipped) (see **ADAPTIVE CRUISE CONTROL (ACC) UNIT REMOVAL/INSTALLATION**).
4. Disconnect the throttle actuator control module 16P connector (A).

With Adaptive Cruise Control (ACC) System

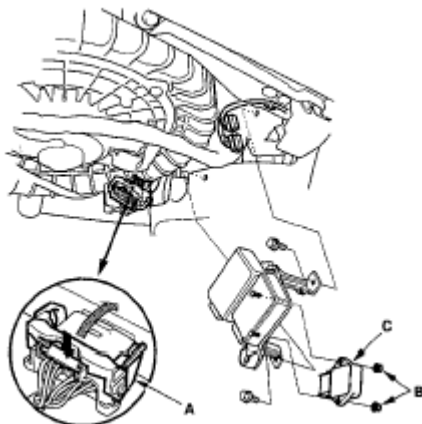


Fig. 87: Identifying Throttle Actuator Control Module (With Adaptive Cruise Control ACC System)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Without Adaptive Cruise Control (ACC) System

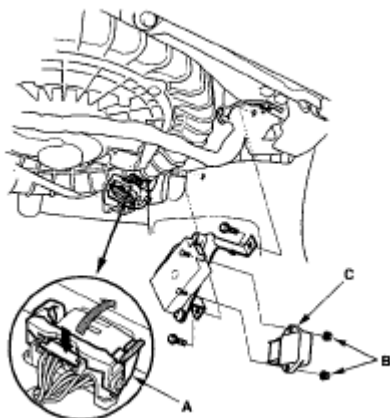


Fig. 88: Identifying Throttle Actuator Control Module (Without Adaptive Cruise Control ACC System)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove the nuts (B) and the throttle actuator control module (C).
6. Install the parts in the reverse order of removal.