

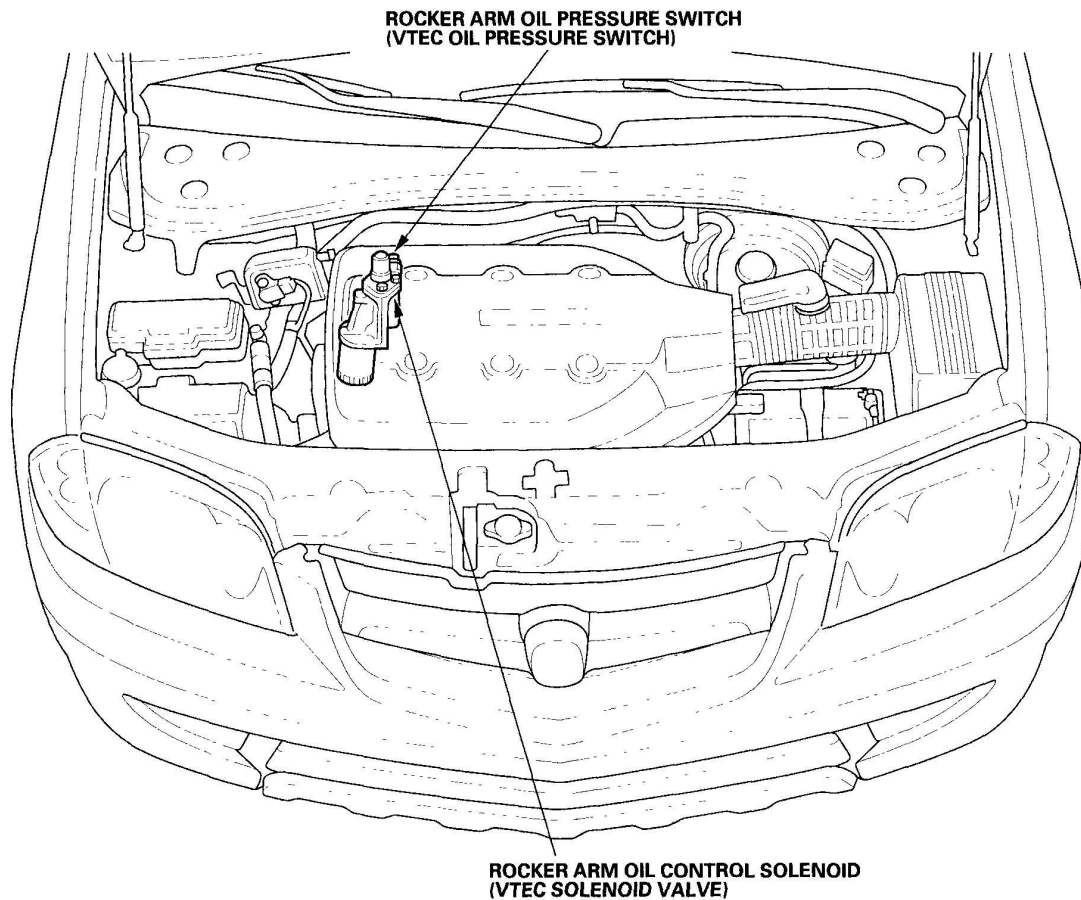
## 2006 Acura MDX

2003-06 ENGINE PERFORMANCE VTEC - MDX

### 2003-06 ENGINE PERFORMANCE

#### VTEC - MDX

### COMPONENT LOCATION INDEX



G03639882

**Fig. 1: Locating VTEC Components**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

### DTC CODES

#### DTC CHART

DTC	Description
<b><u>DTC P2646</u></b>	Rocker Arm Oil Pressure Switch (VTEC Oil Pressure Switch) Circuit Low Voltage
<b><u>DTC P2647</u></b>	Rocker Arm Oil Pressure Switch (VTEC Oil Pressure Switch) Circuit High Voltage

## 2006 Acura MDX

2003-06 ENGINE PERFORMANCE VTEC - MDX

<b>DTC P2648</b>	Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) Circuit Low Voltage
<b>DTC P2649</b>	Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) Circuit High Voltage

## DTC TROUBLESHOOTING

### DTC P2646: ROCKER ARM OIL PRESSURE SWITCH (VTEC OIL PRESSURE SWITCH) CIRCUIT LOW VOLTAGE

#### Special Tools Required

- Pressure gauge adapter 07NAJ-P07010A
- A/T low pressure gauge w/panel 07406-0070300
- A/T pressure hose 07406-0020201
- A/T pressure hose, 2,210 mm 07MAJ-PY4011A
- A/T pressure adapter 07MAJ-PY40120
- Oil pressure hose 07ZAJ-S5A0200

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

1. Check the engine oil level.

#### Is the level OK?

**YES** - Go to step 2.

**NO** - Adjust the engine oil to the proper level, then go to step 20 .

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

#### Is the VTEC SYSTEM OK?

**YES** - Intermittent failure, system is OK at this time. Check for poor connections or loose terminals at the rocker arm oil pressure switch (VTEC oil pressure switch), the rocker arm oil control solenoid (VTEC solenoid valve), and the PCM.

**NO** - Go to step 5.

5. Turn the ignition switch OFF.
6. Disconnect the rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector.
7. Turn the ignition switch ON (II).

8. Check the rocker arm oil pressure switch (VTEC oil pressure switch) in the DATA LIST with the HDS.

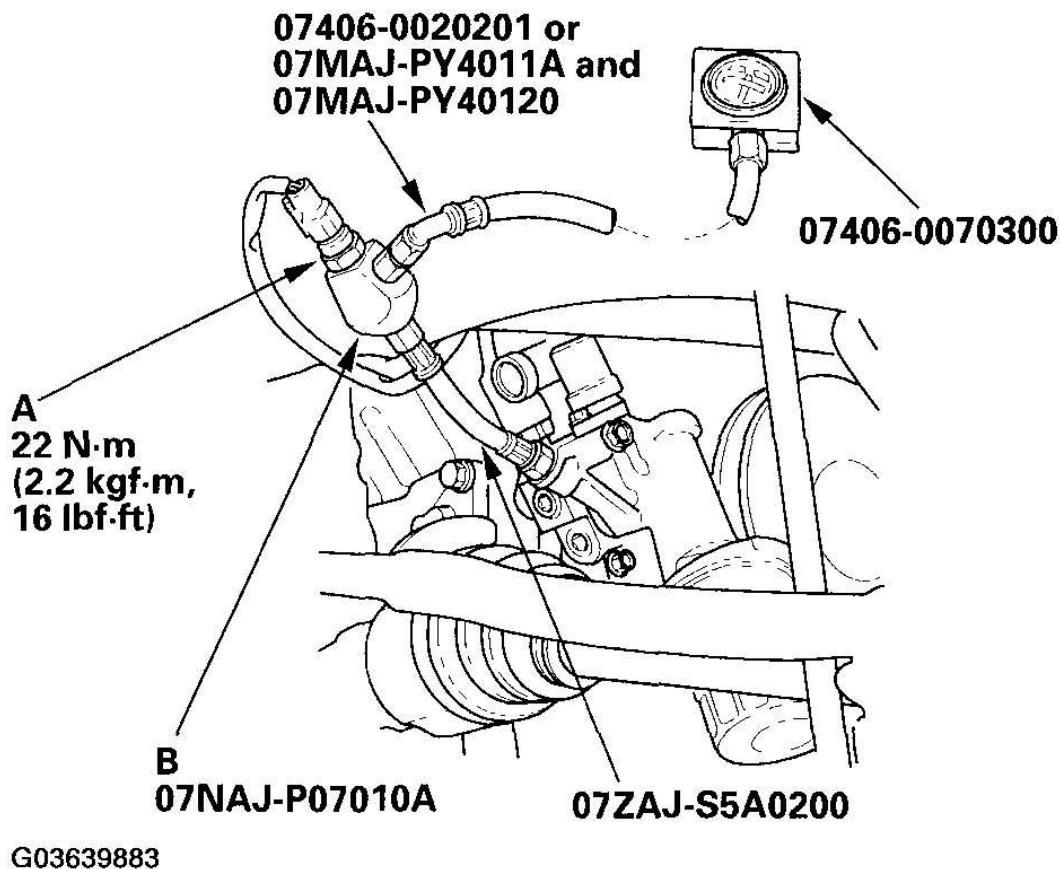
**Is the rocker arm oil pressure switch (VTEC oil pressure switch) ON?**

**YES** - Go to step 9.

**NO** - Go to step 13 .

9. Turn the ignition switch OFF.
10. Remove the rocker arm oil pressure switch (VTEC oil pressure switch) (A) and install the special tools as shown in **Fig. 2** , then install the rocker arm oil pressure switch (VTEC oil pressure switch) to the oil pressure gauge adapter (B).

**NOTE:** Install the part in the reverse order of removal with a new O-ring.



**Fig. 2: Removing Rocker Arm Oil Pressure Switch (VTEC Oil Pressure Switch)**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.

11. Start the engine.

12. Do the VTEC TEST in the INSPECTION MENU with the HDS.
13. Check the oil pressure.

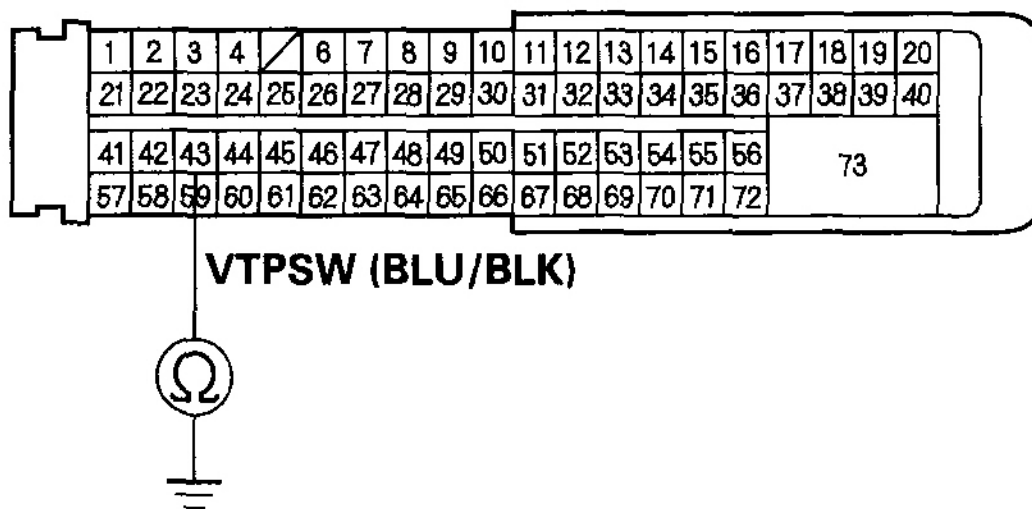
**Is the oil pressure below 49 kPa (0.5 kgf/cm<sup>2</sup> , 7 psi)?**

**YES** - Inspect the VTEC system oil line. If it is OK. Replace the rocker arm oil control solenoid (VTEC solenoid valve) (see **ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) REPLACEMENT** ), then go to step 21 .

**NO** - Go to step 14.

14. Turn the ignition switch OFF.
15. Jump the SCS line with the HDS.
16. Disconnect the rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector.
17. Disconnect PCM connector A (73P).
18. Check for continuity between PCM connector terminal A43 and body ground.

### PCM CONNECTOR A (73P)



Terminal side of female terminals

G03639884

**Fig. 3: Checking Continuity Between PCM Connector Terminal A43 And Body Ground**  
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there continuity?**

**YES** - Repair short in the wire between the PCM (A43) and the rocker arm oil pressure switch (VTEC oil pressure switch), then go to step 19.

**NO** - Go to step 27 .

19. Reconnect the rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector.
20. Reconnect PCM connector A (73P).
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. Test-drive under these conditions:

Accelerate in 1 position to an engine speed over 4,700 rpm. Hold the speed for at least 2 seconds.

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

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2646 is indicated, check for poor connections or loose terminals at the rocker arm oil pressure switch (VTEC oil pressure switch), the rocker arm oil control solenoid (VTEC solenoid valve) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

**NO** - Go to step 26.

26. Monitor the OBD STATUS for DTC P2646 in the DTCs MENU with the HDS.

**Does the screen indicate PASSED?**

**YES** - Troubleshooting is completed.

**NO** - If the screen indicates FAILED, then go to step 1 and recheck. If the screen indicates NOT COMPLETED, go to step 24 and recheck.

27. Update the PCM if it does not have the latest software, or substitute a known-good PCM (see **PCM UPDATING AND SUBSTITUTION FOR TESTING** ).
28. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE** ).
29. Test-drive under these conditions:

Accelerate in 1 position to an engine speed over 4,700 rpm. Hold the speed for at least 2 seconds.

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

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2646 is indicated, check for poor connections or loose terminals at the rocker arm oil pressure switch (VTEC oil pressure switch), the rocker arm oil control solenoid (VTEC solenoid

valve) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

**NO** - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT** ).

### **DTC P2647: ROCKER ARM OIL PRESSURE SWITCH (VTEC OIL PRESSURE SWITCH) 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. Check the engine oil level.

#### **Is the level OK?**

**YES** - Go to step 2.

**NO** - Adjust the engine oil to the proper level, then go to step 14 .

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

#### **Is the result OK?**

**YES** - Intermittent failure, system is OK at this time. Check for poor connections or loose terminals at the rocker arm oil pressure switch (VTEC oil pressure switch) and the PCM.

**NO** - Go to step 5.

5. Check the result of step 4 .
  - VTEC Switch Failure
  - VTEC Switch Open
  - VTEC Switch SIG Line Open
  - VTEC Switch GND Line Open

#### **Does the test result indicate one of these failures?**

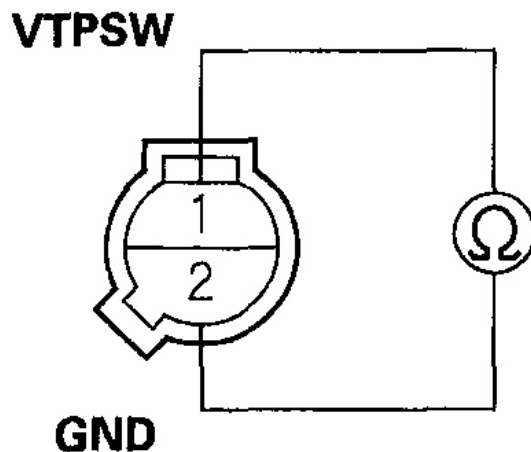
**YES** - Go to step 6.

**NO** - Check for poor connections or loose terminals at the rocker arm oil pressure switch (VTEC oil pressure switch). If it is OK, replace the rocker arm oil control solenoid (VTEC solenoid valve) (see **ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) REPLACEMENT** ), then go to step 14 .

6. Turn the ignition switch OFF.
7. Disconnect the rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector.

8. At the rocker arm oil pressure switch (VTEC oil pressure switch), check for continuity between rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector terminals No. 1 and No. 2.

## ROCKER ARM OIL PRESSURE SWITCH (VTEC OIL PRESSURE SWITCH) 2P CONNECTOR



Terminal side of male terminals

G03639885

**Fig. 4: Checking Continuity Between Rocker Arm Oil Pressure Switch (VTEC Oil Pressure Switch) 2P Connector Terminals 1 And 2**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

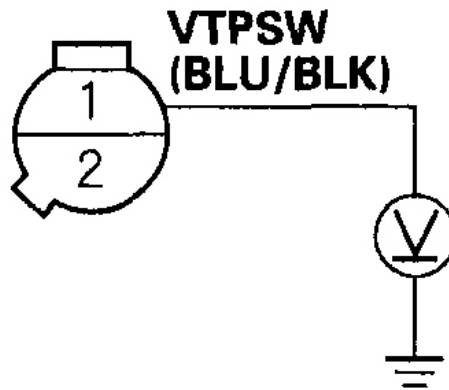
**Is there continuity?**

**YES** - Go to step 9.

**NO** - Replace the rocker arm oil pressure switch (VTEC oil pressure switch) (see **ROCKER ARM OIL PRESSURE SWITCH (VTEC OIL PRESSURE SWITCH) REMOVAL/INSTALLATION** ), then go to step 13 .

9. Turn the ignition switch ON (II).
10. Measure voltage between rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector terminal No. 1 and body ground.

## ROCKER ARM OIL PRESSURE SWITCH (VTEC OIL PRESSURE SWITCH) 2P CONNECTOR



### Wire side of female terminals

G03639886

**Fig. 5: Measuring Voltage Between Rocker Arm Oil Pressure Switch (VTEC Oil Pressure Switch) 2P Connector Terminal 1 And Body Ground**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there battery voltage?**

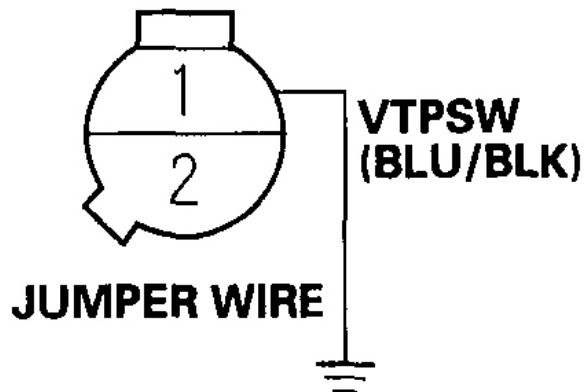
**YES** - Repair open in the wire between the rocker arm oil pressure switch (VTEC oil pressure switch) and G101, then go to step 13 .

**NO** - Go to step 11.

11. Turn the ignition switch OFF.
12. Jump the SCS line with the HDS.
13. Disconnect PCM connector A (73P).
14. Connect rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector terminal No. 1 to body ground with a jumper wire.



## ROCKER ARM OIL PRESSURE SWITCH (VTEC OIL PRESSURE SWITCH) 2P CONNECTOR

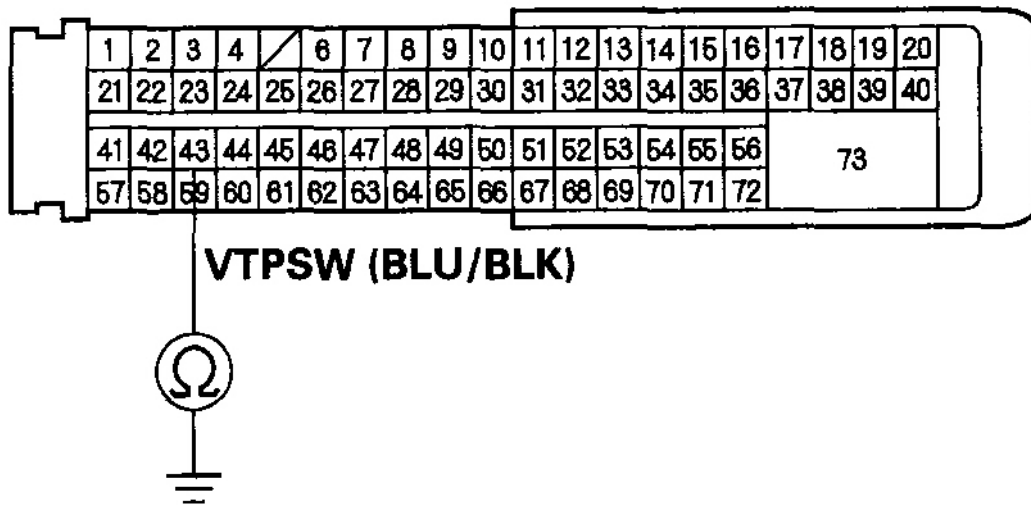


Wire side of female terminals

G03639887

**Fig. 6: Connecting Rocker Arm Oil Pressure Switch (VTEC Oil Pressure Switch) 2P Connector Terminal 1 To Body Ground With Jumper Wire**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.

15. Check for continuity between PCM connector terminal A43 and body ground.

**PCM CONNECTOR A (73P)**

Terminal side of female terminals

G03639888

**Fig. 7: Checking Continuity Between PCM Connector Terminal A43 And Body Ground**  
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there continuity?**

**YES** - Go to step 23 .

**NO** - Repair open in the wire between the PCM (A43) and the rocker arm oil pressure switch (VTEC oil pressure switch), then go to step 16.

16. Reconnect PCM connector A (73P).
17. Reconnect the rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector.
18. Turn the ignition switch ON (II).
19. Reset the PCM with the HDS.
20. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE** ).
21. Check for Temporary DTCs or DTCs with the HDS.

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2647 is indicated, check for poor connections or loose terminals at the rocker arm oil pressure switch (VTEC oil pressure switch) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

**NO** - Go to step 22.

22. Monitor the OBD STATUS for DTC P2647 in the DTCs MENU with the HDS.

**Does the screen indicate PASSED?**

**YES** - Troubleshooting is complete.

**NO** - If the screen indicates FAILED, then go to step 1 and recheck. If the screen indicates NOT COMPLETED, go to step 20 and recheck.

23. Update the PCM if it does not have the latest software, or substitute a known-good PCM (see **PCM UPDATING AND SUBSTITUTION FOR TESTING** ).
24. Check for Temporary DTCs or DTCs with the HDS.

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2647 is indicated, check for poor connections or loose terminals at the rocker arm oil pressure switch (VTEC oil pressure switch) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

**NO** - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT** ).

**DTC P2648: ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) 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. Do the VTEC TEST in the INSPECTION MENU with the HDS.

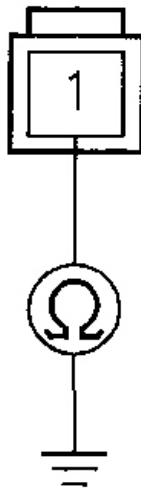
**Is VTEC SYSTEM OK?**

**YES** - Intermittent failure, system is OK at this time. Check for poor connections or loose terminals at the rocker arm oil control solenoid (VTEC solenoid valve) and the PCM.

**NO** - Go to step 4.

4. Turn the ignition switch OFF.
5. Disconnect the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector.
6. Measure resistance between the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector terminal and solenoid valve body.

## ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) 1P CONNECTOR



Terminal side of male terminals

G03639889

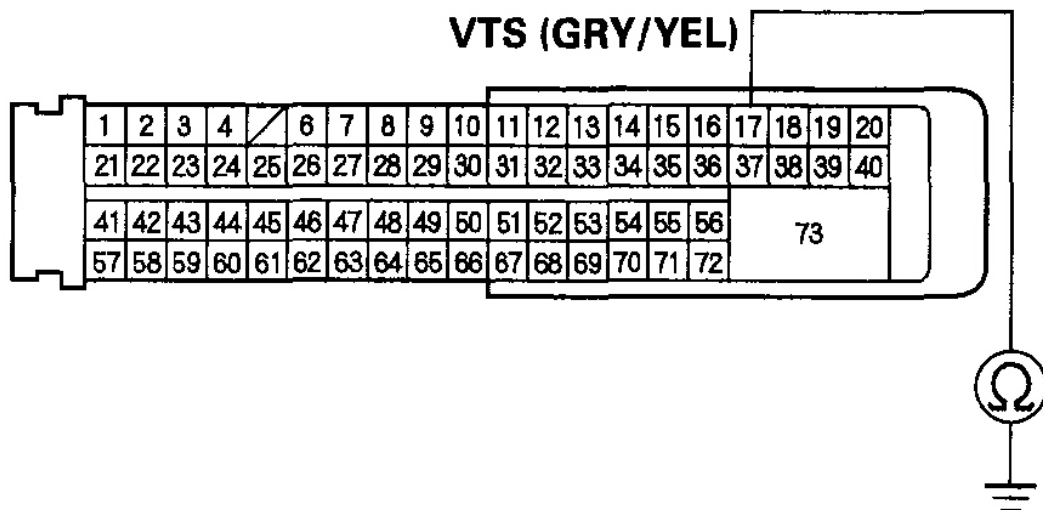
**Fig. 8: Measuring Resistance Between Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) 1P Connector Terminal And Solenoid Valve Body**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there 14 - 30 ohm?**

**YES** - Go to step 7.

**NO** - Replace the rocker arm oil control solenoid (VTEC solenoid valve), then go to step 11 .

7. Jump the SCS line with the HDS.
8. Disconnect PCM connector A (73P).
9. Check for continuity between PCM connector terminal A17 and body ground.

**PCM CONNECTOR A (73P)****Terminal side of female terminals**

G03639890

**Fig. 9: Checking Continuity Between PCM Connector Terminal A17 And Body Ground**  
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there continuity?**

**YES** - Repair short in the wire between the PCM (A17) and the rocker arm oil control solenoid (VTEC solenoid valve), then go to step 10.

**NO** - Go to step 18 .

10. Reconnect PCM connector A (73P).
11. Reconnect the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector.
12. Turn the ignition switch ON (II).
13. Reset the PCM with the HDS.
14. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE** ).
15. Test-drive under these conditions:

Accelerate in 1 position to an engine speed over 4,700 rpm. Hold the speed for at least 2 seconds.

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

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2648 is indicated, check for poor connections or loose terminals at the rocker arm oil control solenoid (VTEC solenoid valve) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs indicated, go to the indicated DTCs troubleshooting.

**NO** - Go to step 17.

17. Monitor the OBD STATUS for DTC P2648 in the DTCs MENU with the HDS.

**Does the screen indicate PASSED?**

**YES** - Troubleshooting is complete.

**NO** - If the screen indicates FAILED, then go to step 1 and recheck. If the screen indicates NOT COMPLETED, go to step 15 and recheck.

18. Update the PCM if it does not have the latest software, or substitute a known-good PCM (see **PCM UPDATING AND SUBSTITUTION FOR TESTING** ).
19. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE** ).
20. Test-drive under these conditions:

Accelerate in 1 position to an engine speed over 4,700 rpm. Hold the speed for at least 2 seconds.

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

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2648 is indicated, check for poor connections or loose terminals at the rocker arm oil control solenoid (VTEC solenoid valve) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

**NO** - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT** ).

**DTC P2649: ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) 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. 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. Check for DTCs in the DTCs MENU with the HDS.

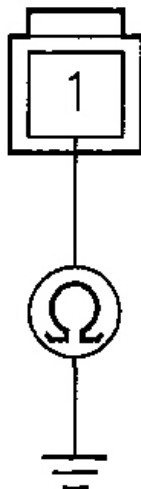
**Is DTC P2649 indicated?**

**YES** - Go to step 5.

**NO** - Intermittent failure, system is OK at this time. Check for poor connections or loose terminals at the rocker arm oil control solenoid (VTEC solenoid valve) and the PCM.

5. Turn the ignition switch OFF.
6. Disconnect the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector.
7. Measure resistance between the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector terminal and the solenoid valve body.

## **ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) 1P CONNECTOR**



**Terminal side of male terminals**

**G03639891**

**Fig. 10: Measuring Resistance Between Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) 1P Connector Terminal And Solenoid Valve Body**  
**Courtesy of AMERICAN HONDA MOTOR CO., INC.**

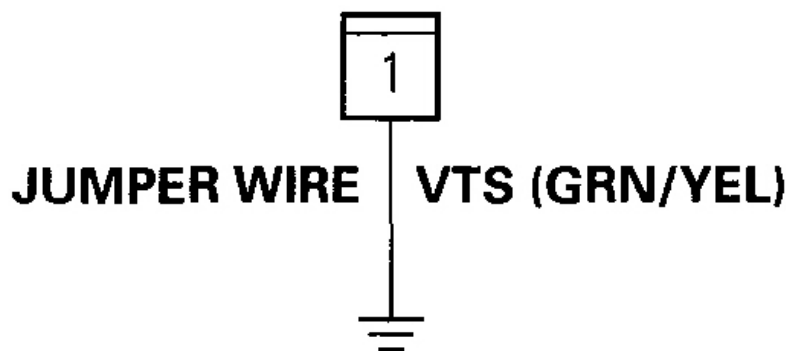
**Is there 14 - 30 ohm?**

**YES** - Go to step 8.

**NO** - Replace the rocker arm oil control solenoid (VTEC solenoid valve) (see **ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) REPLACEMENT** ), then go to step 14 .

8. Jump the SCS line with the HDS.
9. Disconnect PCM connector A (73P).
10. Connect the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector terminal to body ground with a jumper wire.

## **ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) 1P CONNECTOR**



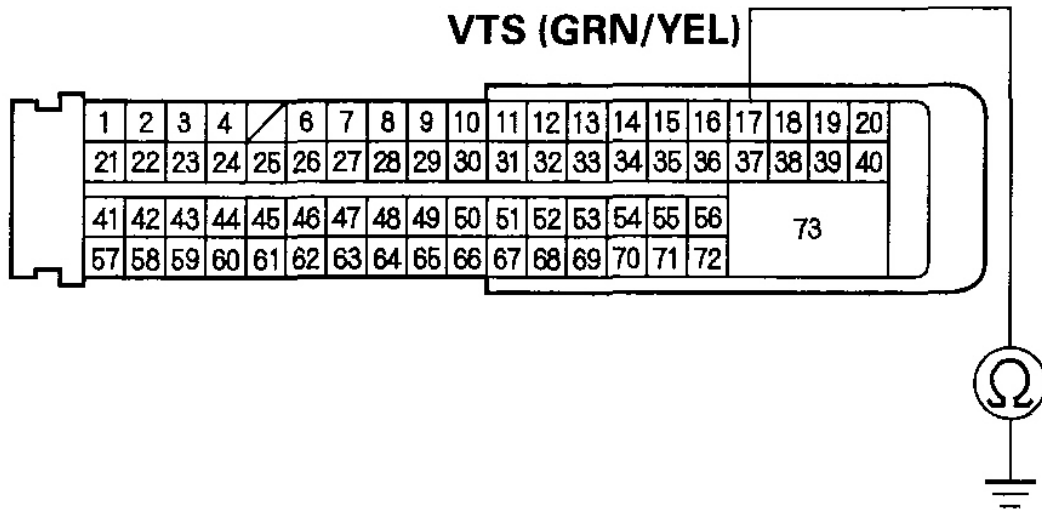
**Wire side of female terminals**

**G03639892**

**Fig. 11: Connecting Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) 1P Connector Terminal To Body Ground With Jumper Wire**  
**Courtesy of AMERICAN HONDA MOTOR CO., INC.**

11. Check for continuity between PCM connector terminal A17 and body ground.



**PCM CONNECTOR A (73P)**

Terminal side of female terminals

G03639893

**Fig. 12: Checking Continuity Between PCM Connector Terminal A17 And Body Ground**  
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

**Is there continuity?**

**YES** - Go to step 20 .

**NO** - Repair open in the wire between the PCM (A17) and the rocker arm oil control solenoid (VTEC solenoid valve), then go to step 12.

12. Reconnect PCM connector A (73P).
13. Reconnect the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector.
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. 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.
18. Check for Temporary DTCs or DTCs with the HDS.

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2649 is indicated, check for poor connections or loose terminals at the rocker arm oil control solenoid (VTEC solenoid valve) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs indicated, go to the indicated DTCs troubleshooting.

**NO** - Go to step 19.

19. Monitor the OBD STATUS for DTC P2649 in the DTCs MENU with the HDS.

**Does the screen indicate PASSED?**

**YES** - Troubleshooting is complete.

**NO** - If the screen indicates FAILED, then go to step 1 and recheck. If the screen indicates NOT COMPLETED, go to step 18 and recheck.

20. Update the PCM if it does not have the latest software, or substitute a known-good PCM (see **PCM UPDATING AND SUBSTITUTION FOR TESTING** ).
21. Do the PCM idle learn procedure (see **PCM IDLE LEARN PROCEDURE** ).
22. 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.
23. Check for Temporary DTCs or DTCs with the HDS.

**Are any Temporary DTCs or DTCs indicated?**

**YES** - If DTC P2647 is indicated, check for poor connections or loose terminals at the rocker arm oil control solenoid (VTEC solenoid valve) and the PCM, then go to step 1 . If any other Temporary DTCs or DTCs are indicated, go to the indicated DTCs troubleshooting.

**NO** - If the PCM was updated, troubleshooting is complete. If the PCM was substituted, replace the original PCM (see **PCM REPLACEMENT** ).

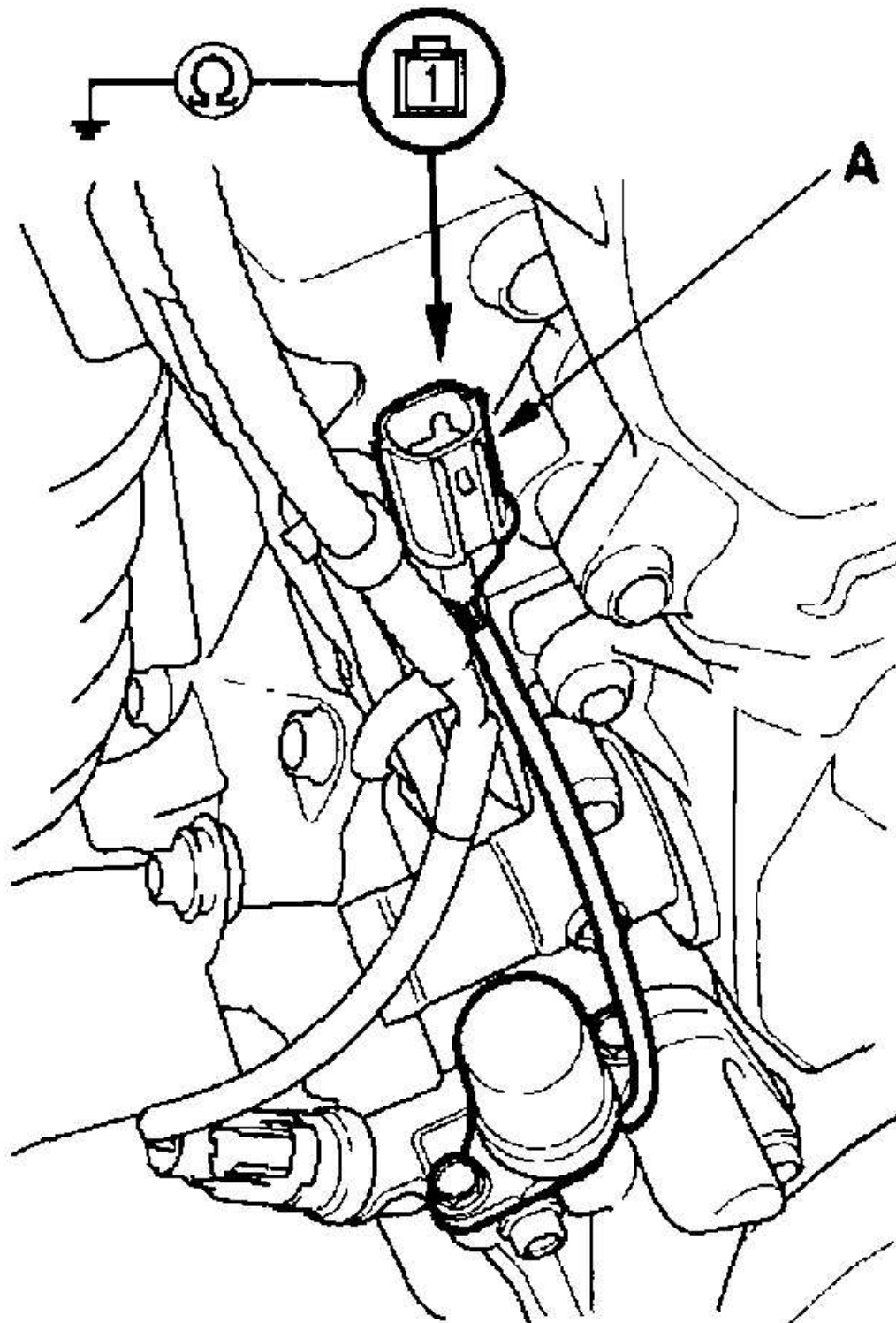
## **ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) TEST**

1. Disconnect the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector.
2. Measure resistance between the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector terminal (A) and body ground.
  - If the resistance is as specified, go to step 3.
  - If the resistance is not as specified, replace the rocker arm oil control solenoid (VTEC solenoid valve).

**Resistance: 14 - 30 ohm**

2006 Acura MDX

2003-06 ENGINE PERFORMANCE VTEC - MDX

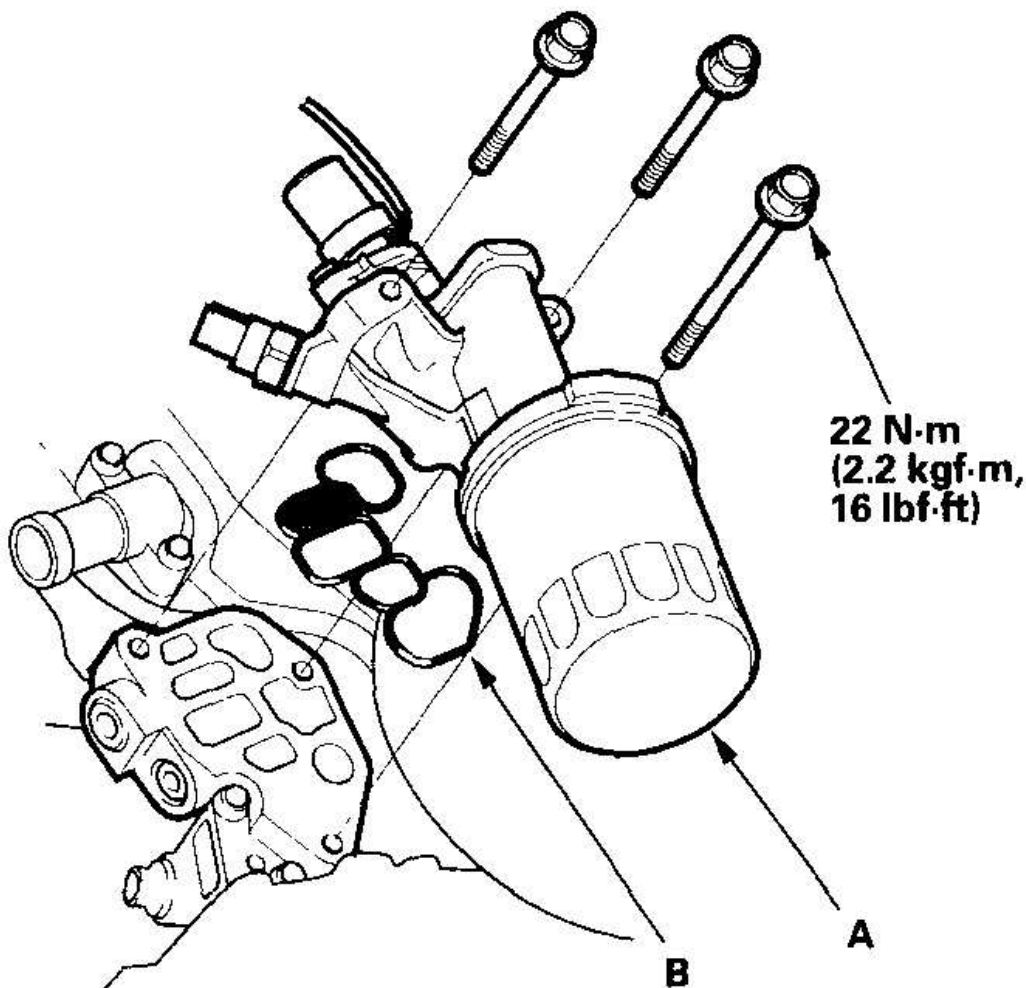


G03639894

**Fig. 13: Measuring Resistance Between Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) 1P Connector Terminal And Body Ground**

Courtesy of AMERICAN HONDA MOTOR CO., INC.

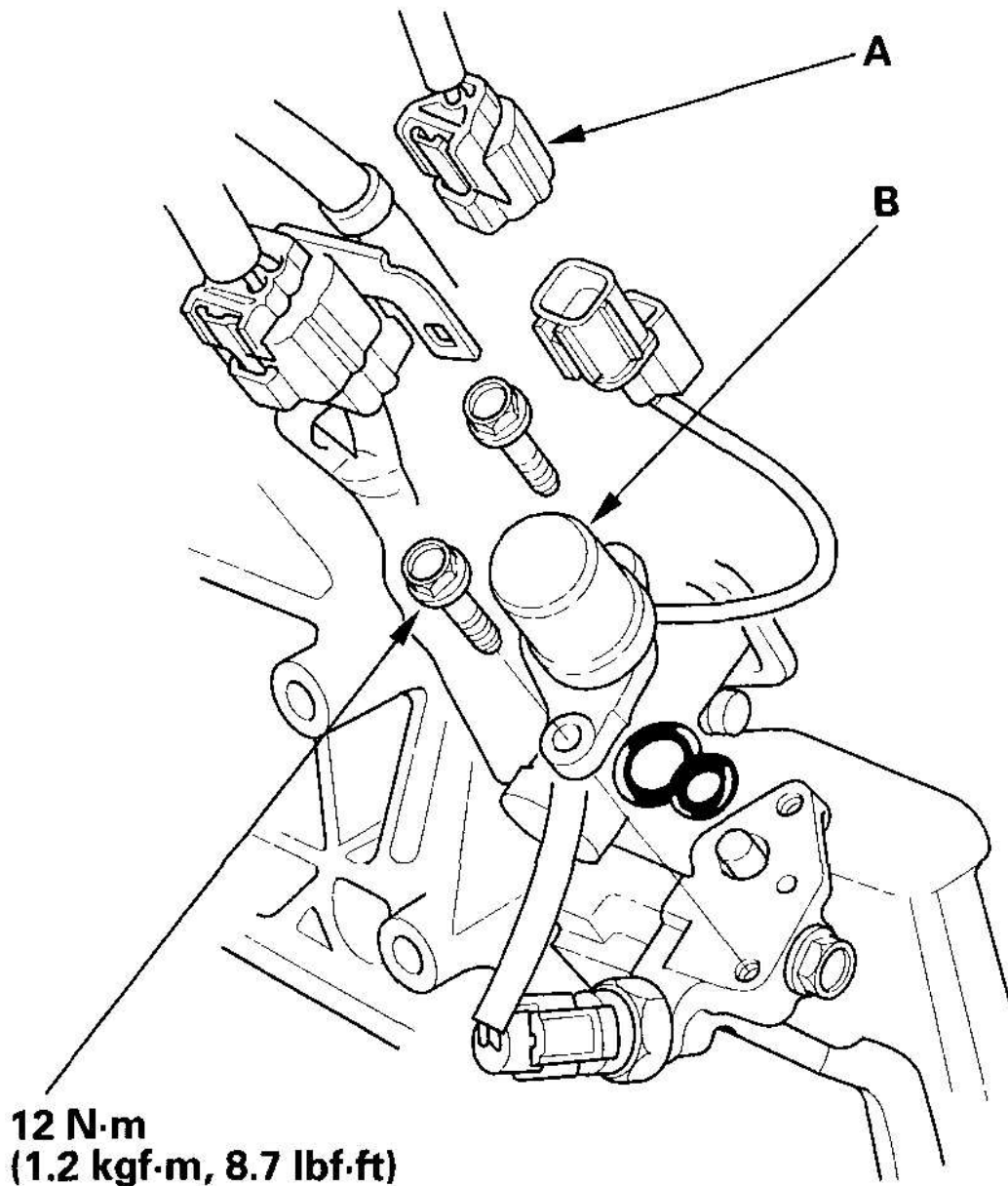
3. Remove the rocker arm oil control solenoid (VTEC solenoid valve)/oil filter assembly (A) from the oil pump, and check the rocker arm oil control solenoid (VTEC solenoid valve) filter (B) for clogging. If there is clogging, replace the rocker arm oil control solenoid (VTEC solenoid valve) filter, the engine oil filter, and the engine oil.



G03639895

**Fig. 14: Removing Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve)/Oil Filter Assembly**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. If the filter is not clogged, remove the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector (A) and push the valve (B) with your finger to check its movement. If valve movement is normal, check the engine oil pressure. If the valve binds or sticks, replace it.



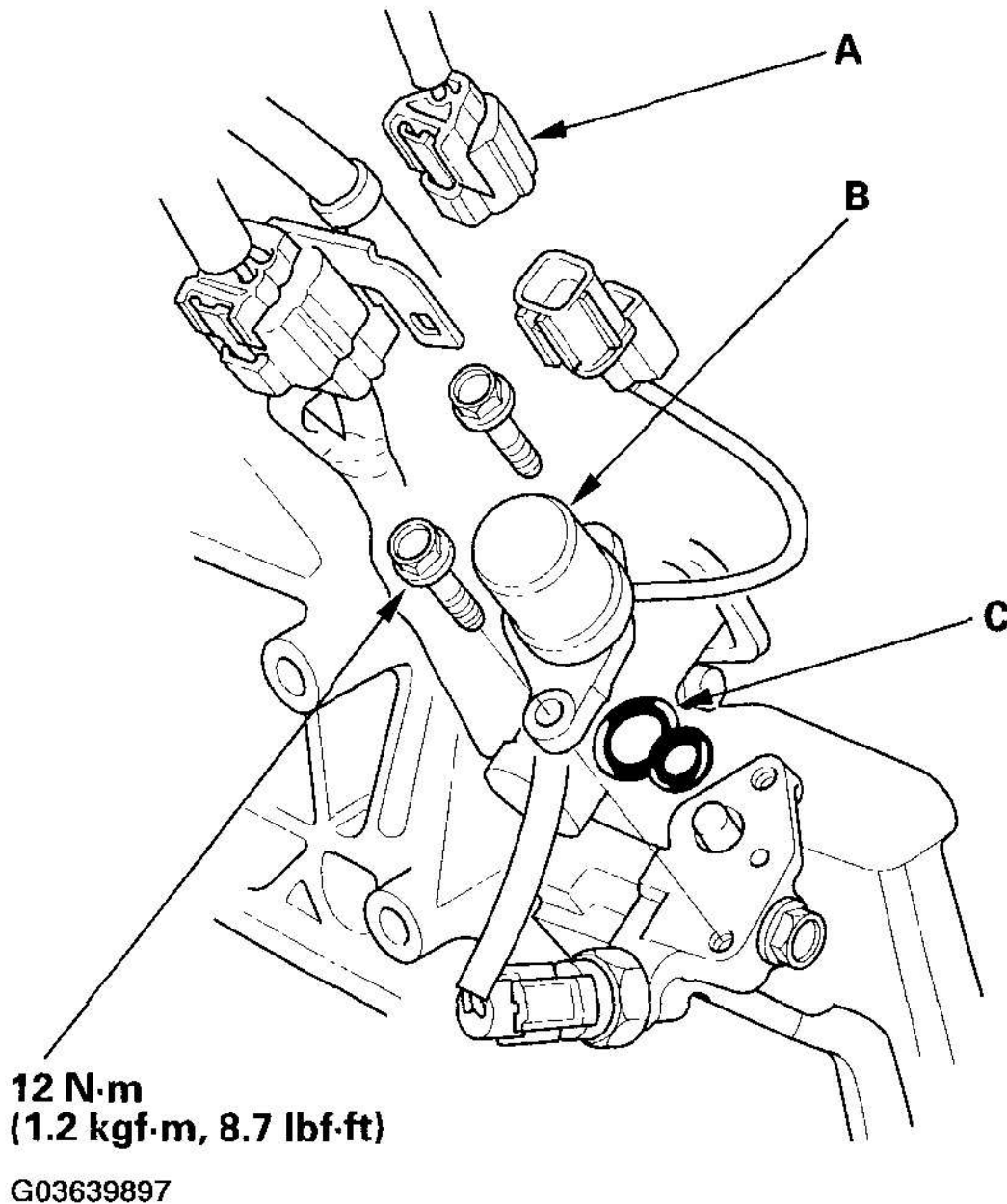
G03639896

**Fig. 15: Removing Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) 1P Connector**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.



## ROCKER ARM OIL CONTROL SOLENOID (VTEC SOLENOID VALVE) REPLACEMENT

1. Disconnect the rocker arm oil control solenoid (VTEC solenoid valve) 1P connector (A).

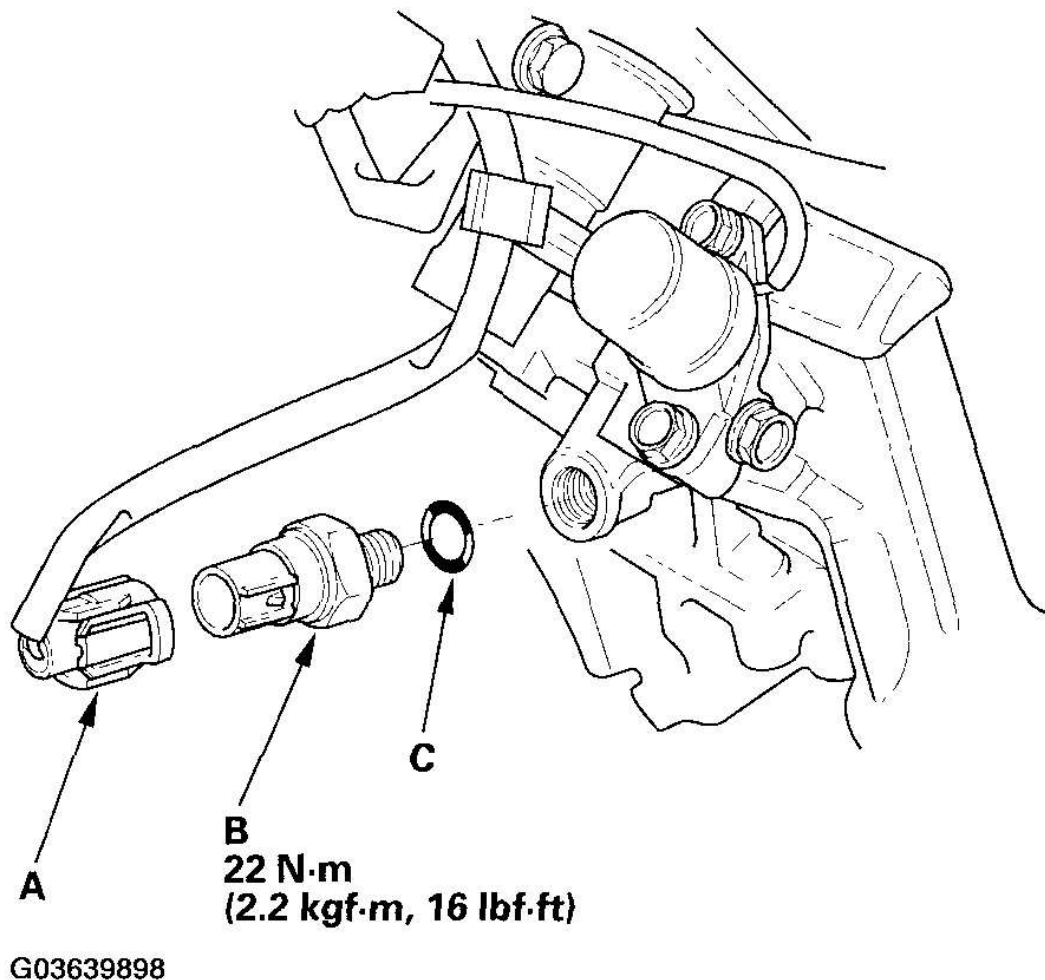


**Fig. 16: Disconnecting Rocker Arm Oil Control Solenoid (VTEC Solenoid Valve) 1P Connector**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Remove the rocker arm oil control solenoid (VTEC solenoid valve) (B).
3. Install the parts in the reverse order of removal with a new O-ring (C).

## ROCKER ARM OIL PRESSURE SWITCH (VTEC OIL PRESSURE SWITCH) REMOVAL/INSTALLATION

1. Disconnect the rocker arm oil pressure switch (VTEC oil pressure switch) 2P connector (A), then remove the rocker arm oil pressure switch (VTEC oil pressure switch) (B).



**Fig. 17: Disconnecting Rocker Arm Oil Pressure Switch (VTEC Oil Pressure Switch) 2P Connector**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Install the switch in the reverse order of removal with a new O-ring (C).