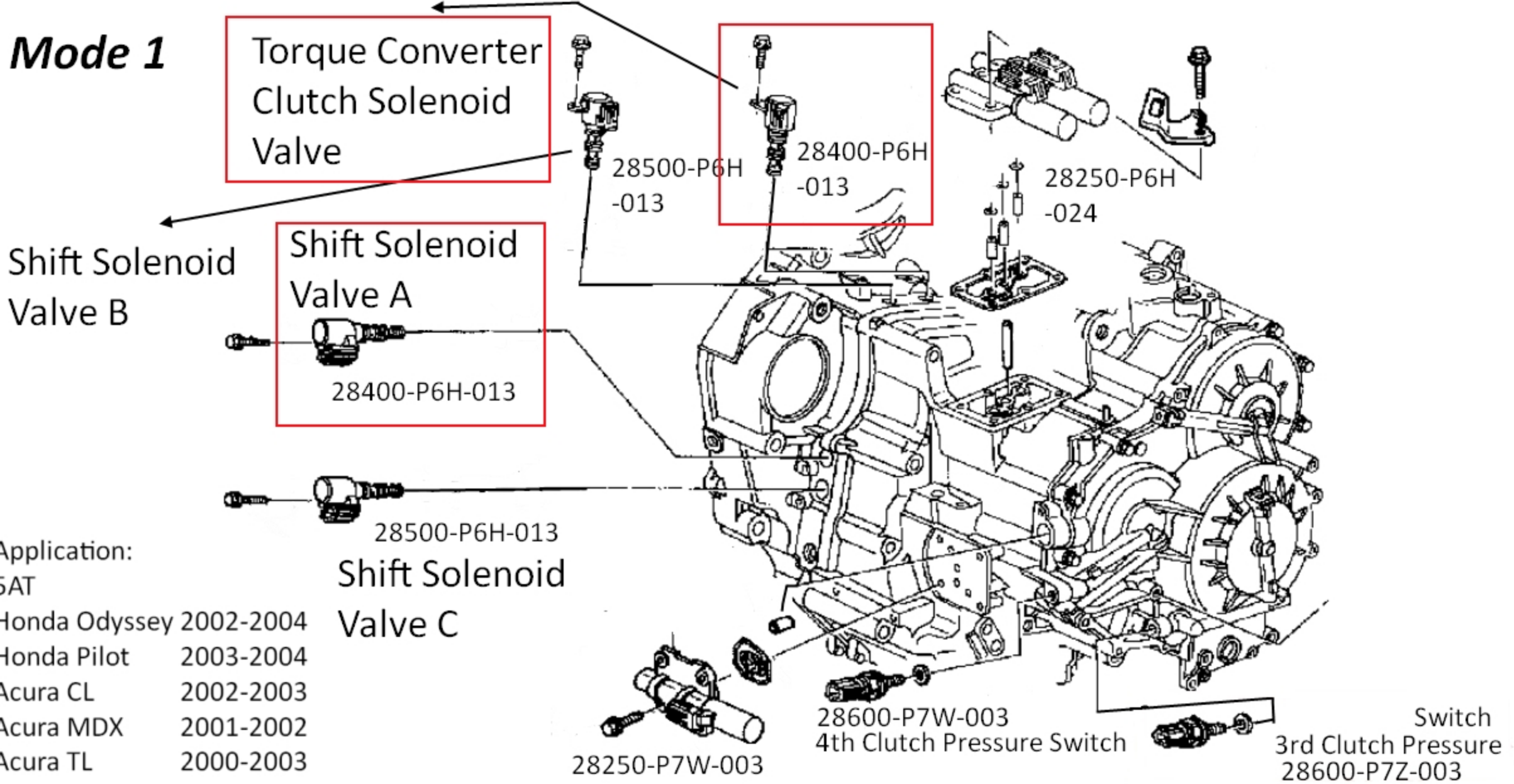
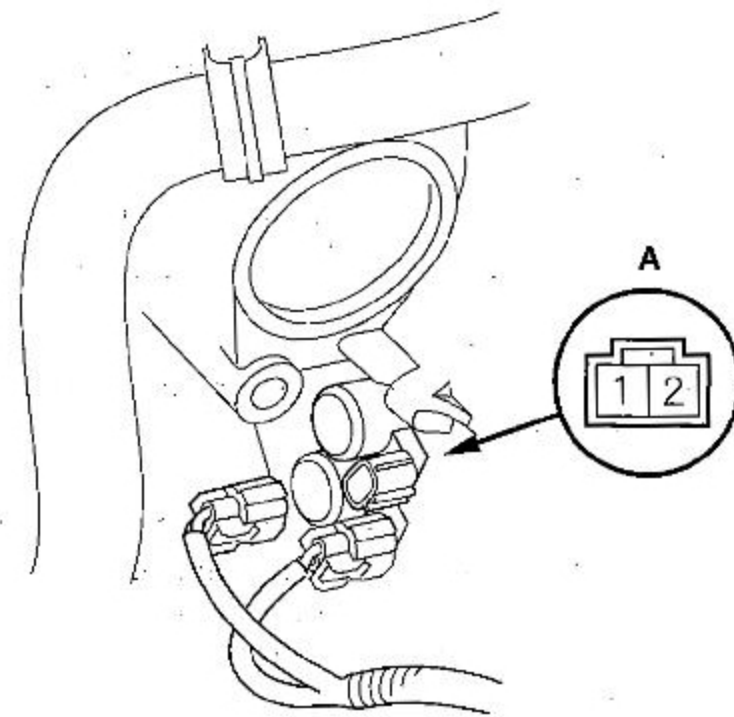
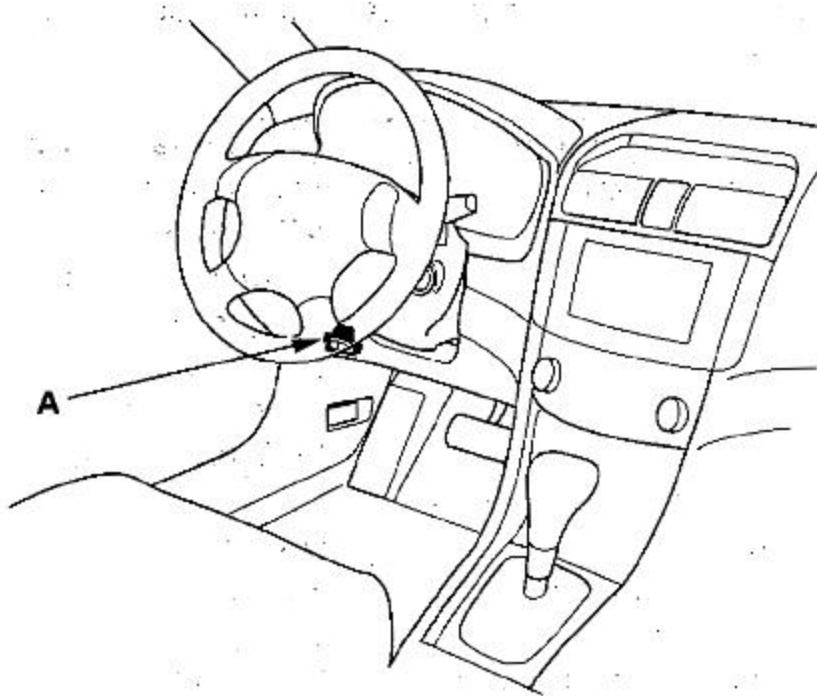


### Mode 1



### Shift Solenoid Valve A Test

1. Connect the HDS to the DLC (A).



2. Select SHIFT SOL TEST in MISCELLANEOUS TEST MENU on the HDS.
3. Carry out A/T SHIFT SOL A test in SHIFT SOL TEST MENU with the HDS.
4. Shift solenoid valve A test had finished if the test result is OK.  
If no sound is heard, go to step 5.
5. Raise the vehicle, then remove the splash shield.
6. Disconnect the shift solenoid valve A connector and check the connector for good pin fit, corrosion, dirt, and oil. If the connector is OK, go to step 7. If not OK, repair the connector and do the test again.

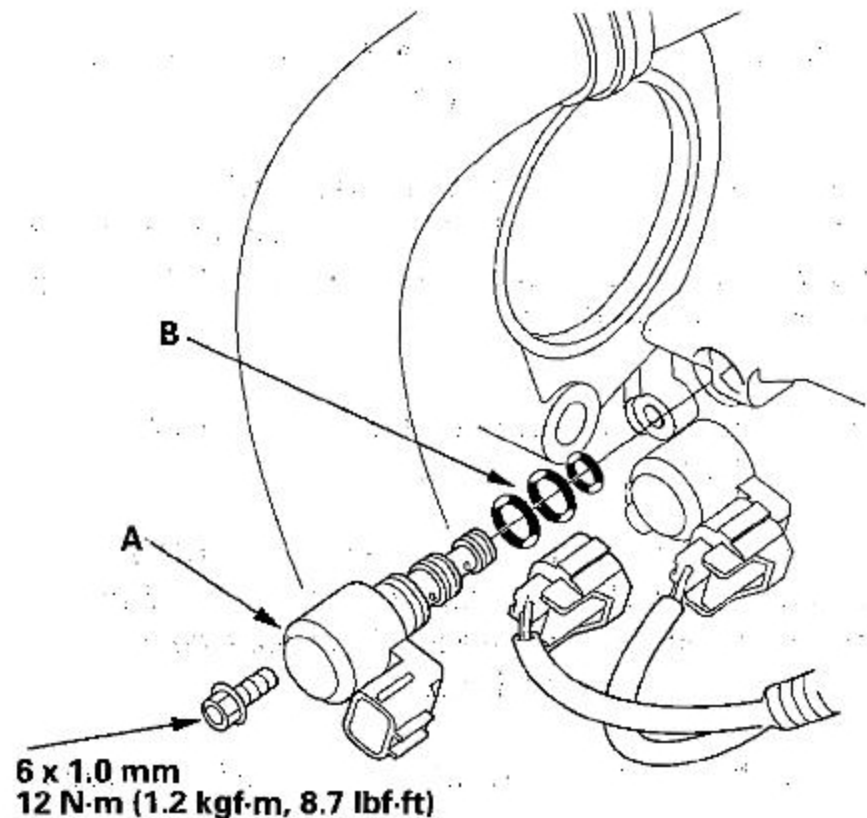
7. Measure shift solenoid valve A resistance at the solenoid valve connector terminals.

**Standard: 12 – 25 Ω**

8. Replace shift solenoid valve A if the resistance is out of standard (see page 14-181).
9. If the resistance is within the standard, connect the battery negative terminal to shift solenoid valve A connector terminal No. 2, and connect the battery positive terminal to terminal No. 1.  
A clicking sound should be heard.
10. Replace shift solenoid valve A if no clicking sound is heard (see page 14-181).
11. If a clicking sound is heard, check the BLU/YEL wire between the PCM and shift solenoid valve A for short or open. If the wire is OK, substitute a known-good PCM and retest.

## Shift Solenoid Valve A Replacement

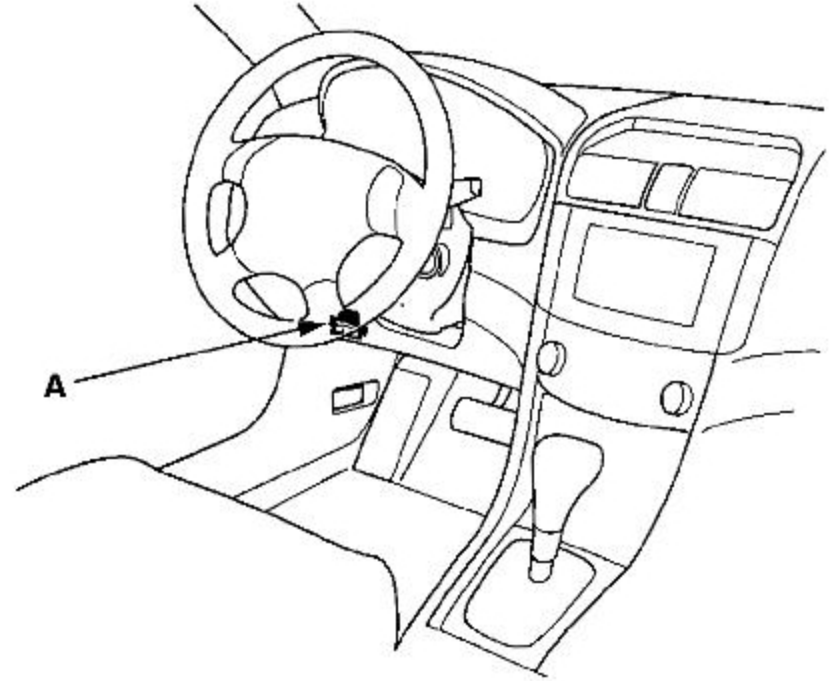
1. Make sure you have the customer's radio and navigation anti-theft codes, and write down the XM radio channel presets.
2. Remove the left side engine compartment cover.
3. Make sure the ignition switch is OFF. Disconnect the battery negative terminal, then disconnect the battery positive terminal.
4. Remove the battery hold-down bracket, then remove the battery and battery tray.
5. Remove the air intake cover and air intake tube.
6. Remove the intake air duct and air cleaner housing.
7. Remove the two bolts securing the battery base from under the vehicle, and remove the two bolts securing the battery base in the engine compartment, then remove the battery base.
8. Remove the starter.
9. Disconnect shift solenoid valve A connector, and remove shift solenoid valve A.



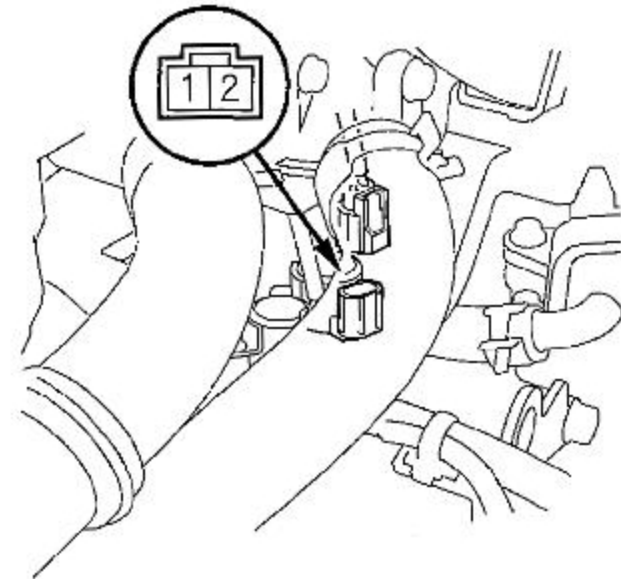
10. Install a new shift solenoid valve A with new O-rings (B). While installing the solenoid valve, do not allow dust or other foreign particles to enter the transmission.
11. Check the connector for corrosion, dirt, and oil, then connect the connector.
12. Install the starter.
13. Install the battery base, then install the air cleaner housing and intake air duct.
14. Install the air intake cover and air intake tube.
15. Install the battery tray, battery, and battery hold-down bracket then connect battery terminals.
16. Install the left side engine compartment cover.
17. Enter the radio and navigation anti-theft codes, and set the XM radio channel presets and the clock.

## Torque Converter Clutch Solenoid Valve Test

1. Connect the HDS to the DLC (A).



2. Select LOCKUP SOL TEST in MISCELLANEOUS TEST MENU on the HDS.
3. Carry out A/T LOCKUP SOL A test in LOCKUP SOL TEST MENU with the HDS.
4. Torque converter clutch solenoid valve test has finished if the test result is OK. If no sound is heard, go to step 5.
5. Disconnect torque converter clutch solenoid valve connector, and check the connector for good pin fit, corrosion, dirt, and oil. If the connector is OK, go to step 6. If the connector is not OK, repair the connector and do the test again.

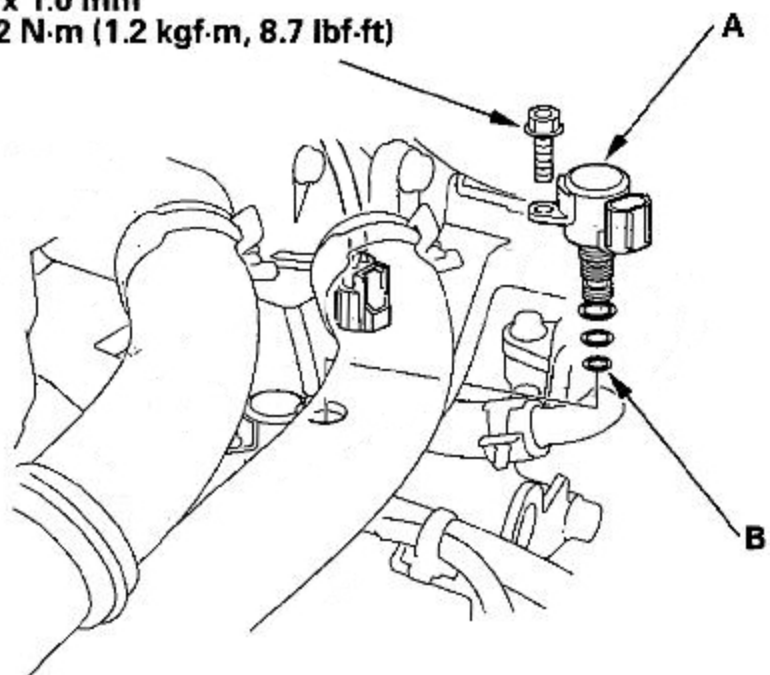


6. Measure torque converter clutch solenoid valve resistance at the solenoid valve connector terminals.  
**Standard: 12–25  $\Omega$**
7. Replace torque converter clutch solenoid valve if no resistance is out of standard (see page 14-187).
8. If the resistance is within the standard, connect the battery negative terminal to torque converter clutch solenoid valve connector terminal No. 2, and connect the battery positive terminal to the terminal No. 1.
9. Replace torque converter clutch solenoid valve if no clicking sound is heard (see page 14-187).
10. If a clicking sound is heard, the solenoid is OK. Check the YEL wire from the PCM to the torque converter clutch solenoid valve for a short or open. If the wire is OK, substitute a known-good PCM and retest.

# Torque Converter Clutch Solenoid Valve Replacement

1. Remove the intake manifold cover.
2. Disconnect torque converter clutch solenoid valve connector and remove torque converter clutch solenoid valve (A)

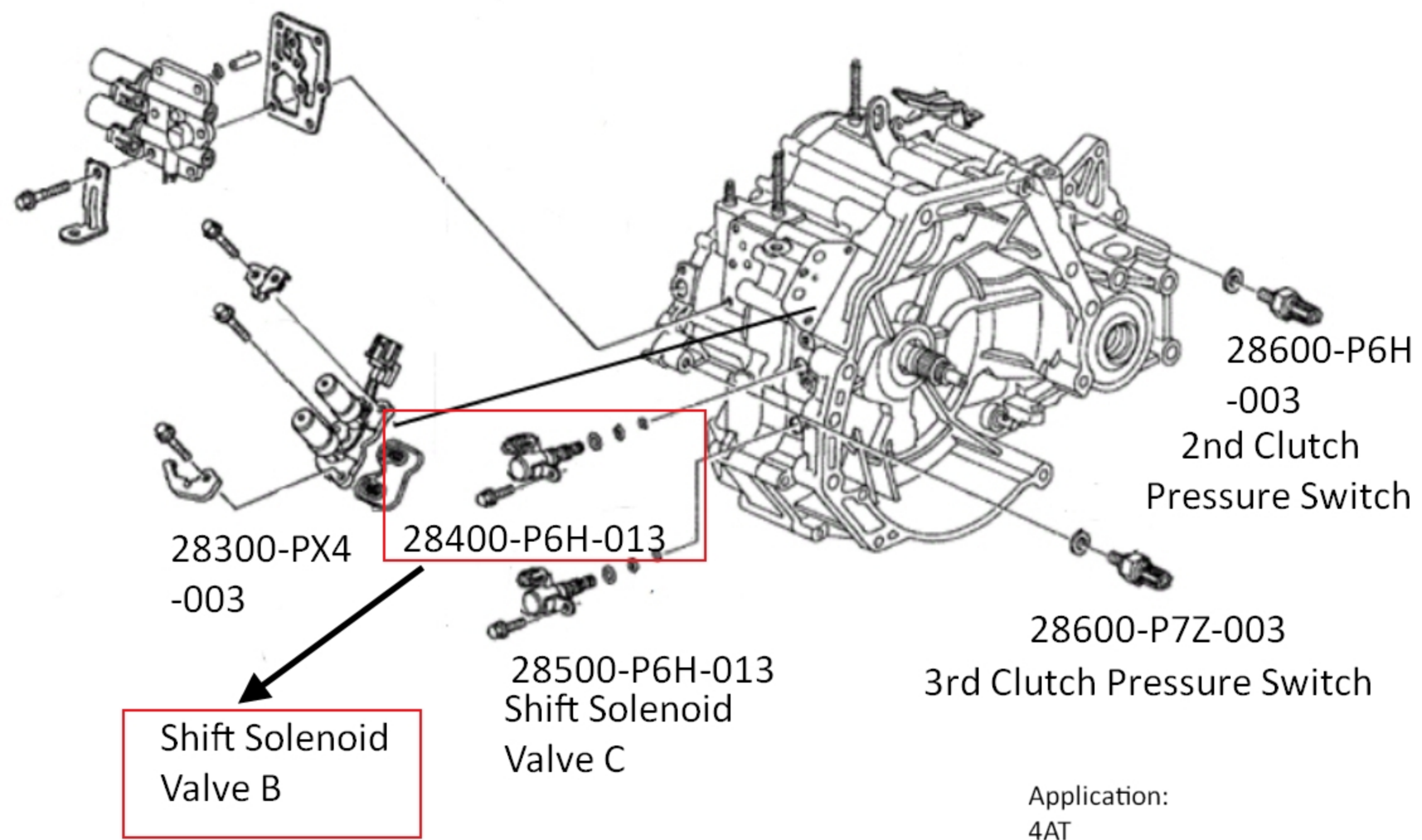
6 x 1.0 mm  
12 N·m (1.2 kgf·m, 8.7 lbf·ft)



3. Install a new torque converter clutch solenoid valve with new O-rings (B) While installing the solenoid valve, do not allow dust or other foreign particles to enter the transmission.
4. Check connector for corrosion, dirt, and oil, then connect the connector.
5. Install the intake manifold cover.

## Mode 2

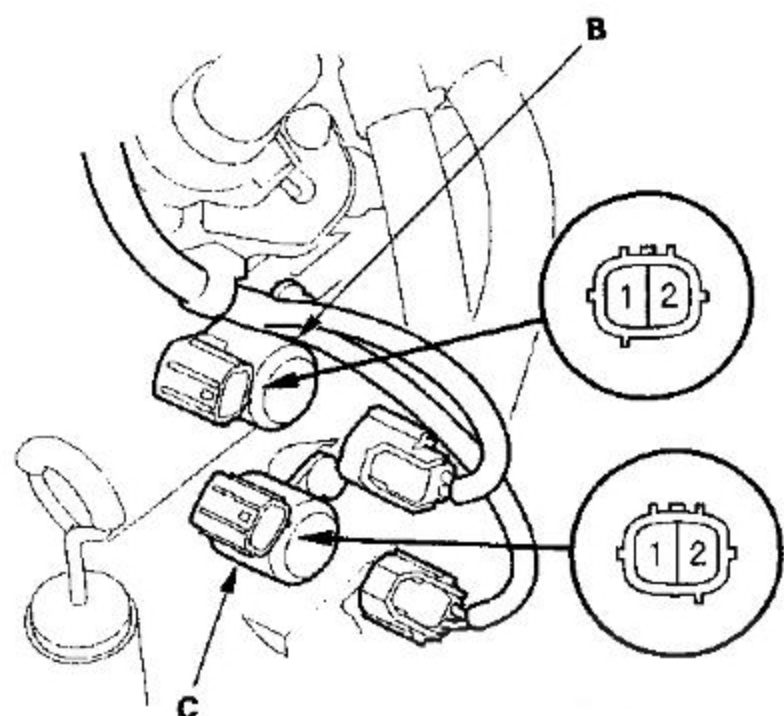
28250-P6H-024



Application:  
4AT  
Honda Accord L4 1998-2002  
Acura CL 1998-1999

## Shift Solenoid Valves B and C Test

1. Disconnect the shift solenoid valve B or C 2P connector.



2. Measure the resistance between the No. 1 and No. 2 terminals of the shift solenoid valve B or C.

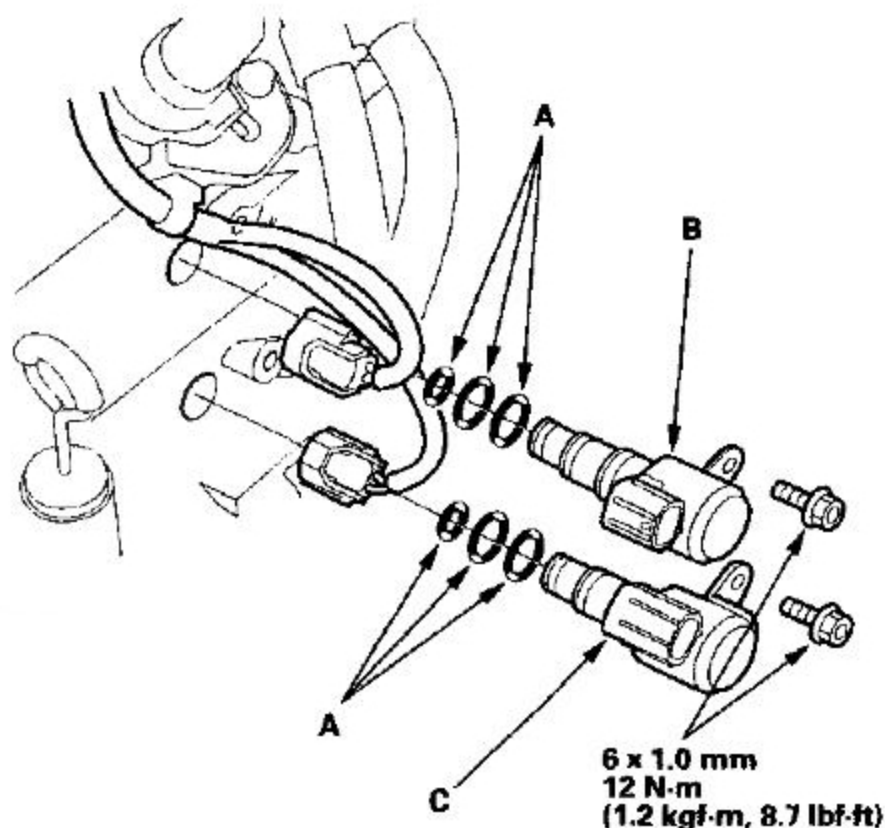
**STANDARD: 12 – 25  $\Omega$**

3. Replace the shift solenoid valve B or C if the resistance is out of standard.
4. If the resistance is within the standard, connect the No. 2 terminal of the shift solenoid valve B or C connector to the battery positive terminal, and connect the No. 1 terminal to the battery negative terminal. A clicking sound should be heard. Replace the shift solenoid valve B or C if no clicking sound is heard.

## Shift Solenoid Valves B and C Replacement

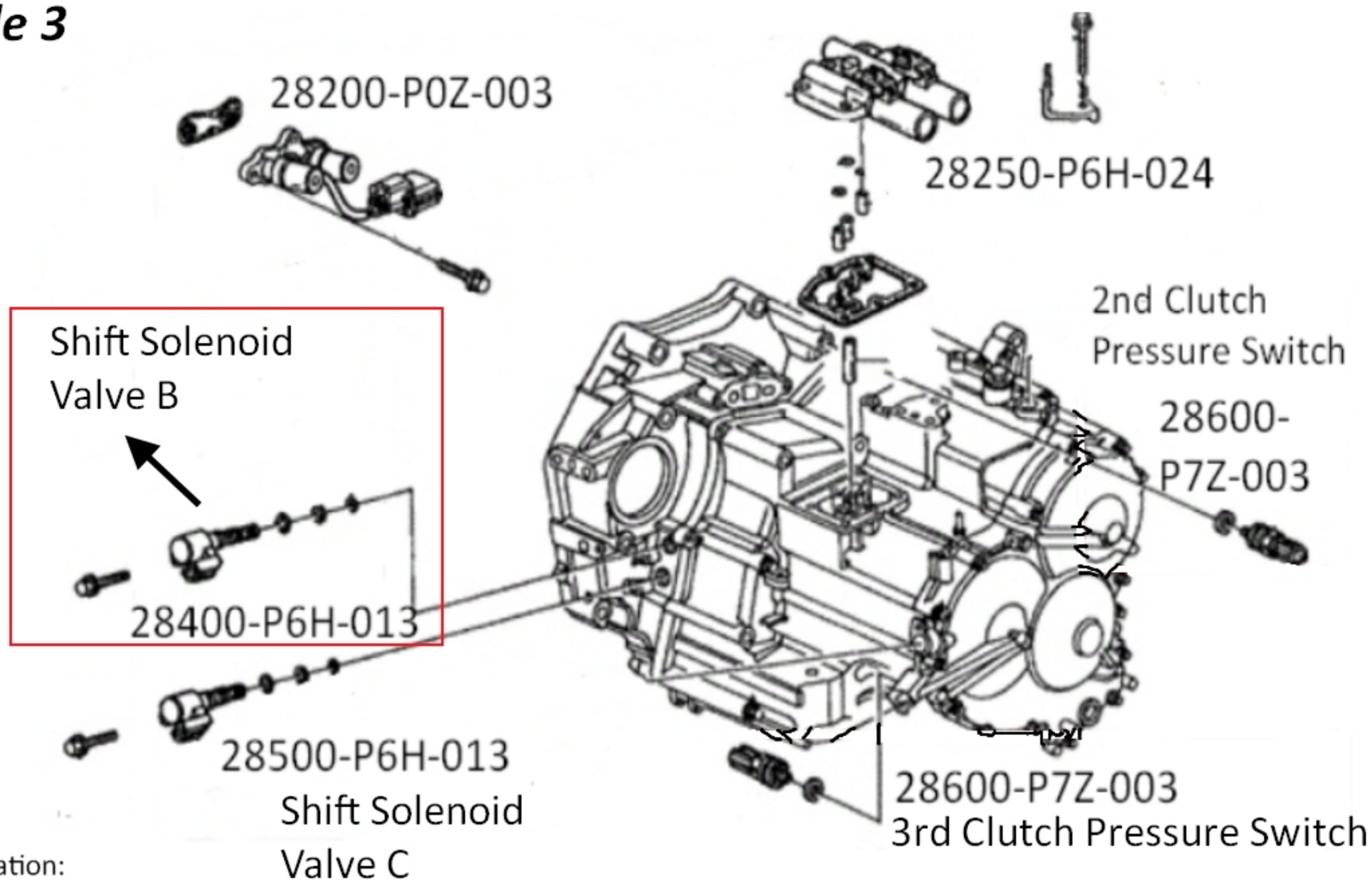
**NOTE:** If the shift solenoid valves B and C are replaced or removed at the same time, be sure to reinstall them correctly. The connector color of shift solenoid valve B is black, and the connector color of shift solenoid valve C is brown.

1. Remove the mounting bolt and the shift solenoid valve B.



2. Remove the mounting bolt and the shift solenoid valve C.
3. Install a new shift solenoid valve B or C with new O-rings (A). While installing the valves, do not allow dust or other foreign particles to enter the transmission.
4. Check the connector for rust, dirt, or oil, then reconnect the connector securely.

## Mode 3

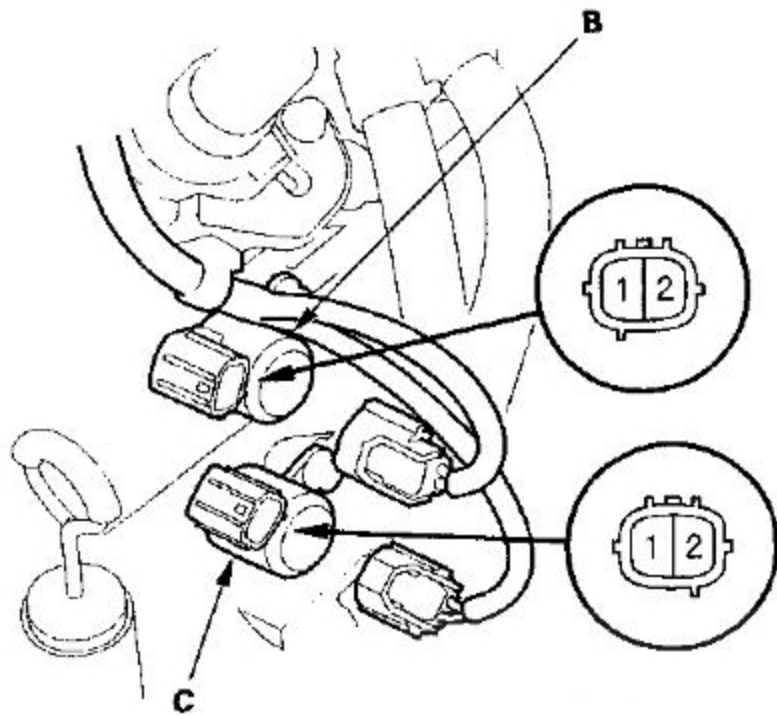


Application:  
4AT

Honda Accord V6	1998-2002
Honda Odyssey	1999-2001
Acura CL	1997-1999

## Shift Solenoid Valves B and C Test

1. Disconnect the shift solenoid valve B or C 2P connector.



2. Measure the resistance between the No. 1 and No. 2 terminals of the shift solenoid valve B or C.

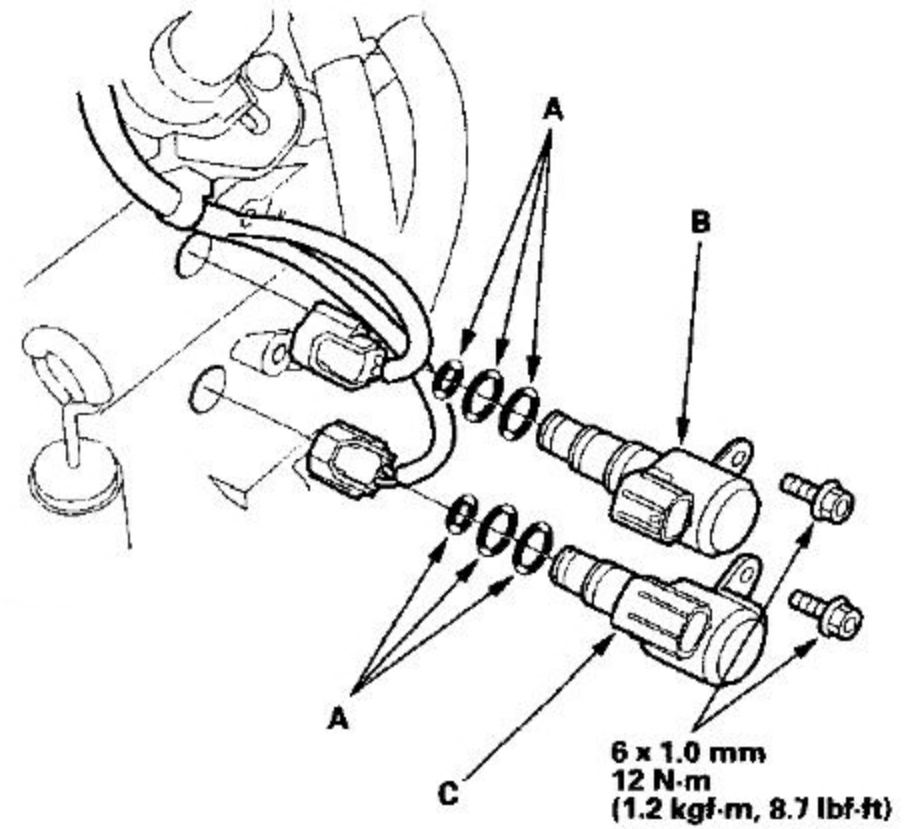
**STANDARD: 12 – 25  $\Omega$**

3. Replace the shift solenoid valve B or C if the resistance is out of standard.
4. If the resistance is within the standard, connect the No. 2 terminal of the shift solenoid valve B or C connector to the battery positive terminal, and connect the No. 1 terminal to the battery negative terminal. A clicking sound should be heard. Replace the shift solenoid valve B or C if no clicking sound is heard.

## Shift Solenoid Valves B and C Replacement

**NOTE:** If the shift solenoid valves B and C are replaced or removed at the same time, be sure to reinstall them correctly. The connector color of shift solenoid valve B is black, and the connector color of shift solenoid valve C is brown.

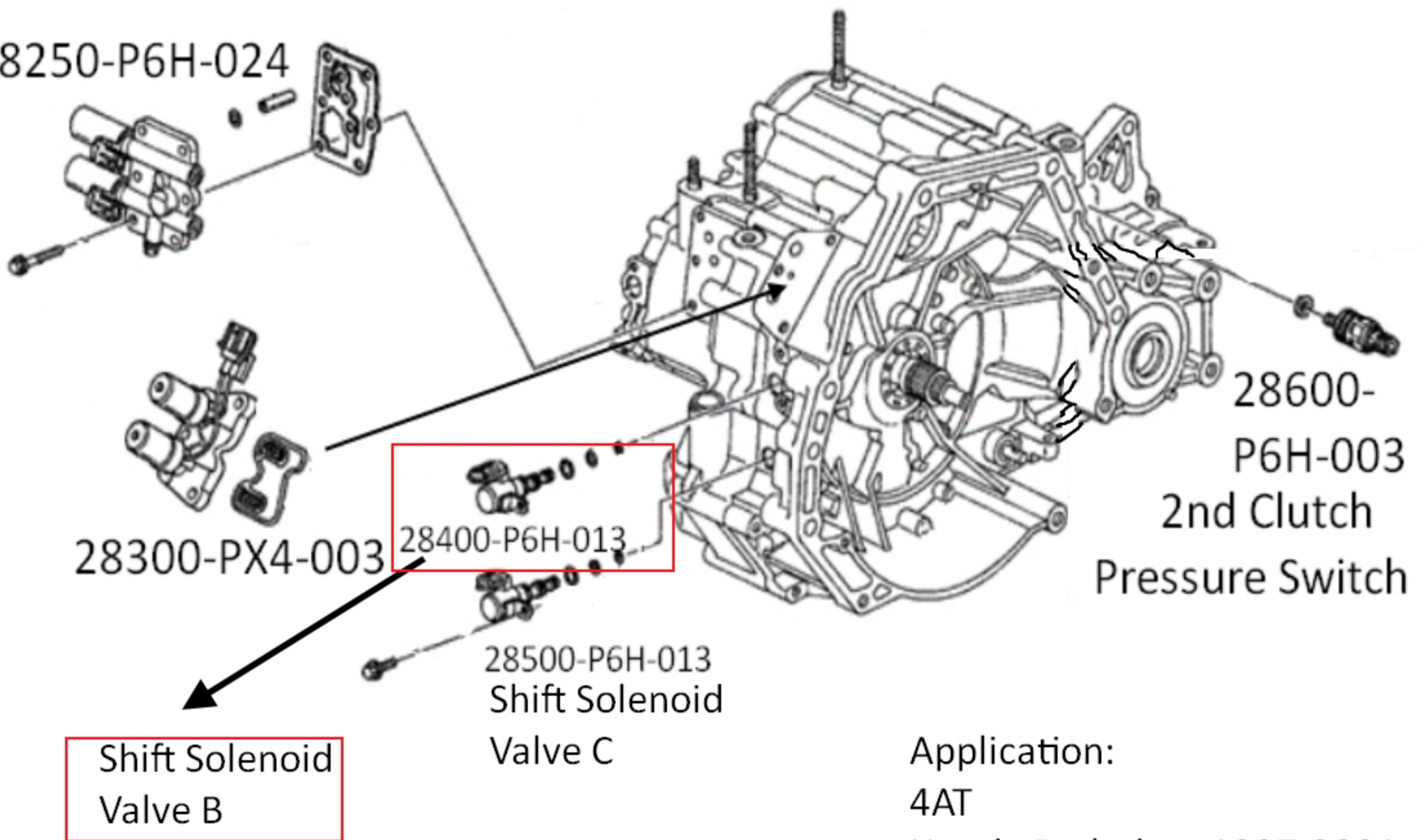
1. Remove the mounting bolt and the shift solenoid valve B.



2. Remove the mounting bolt and the shift solenoid valve C.
3. Install a new shift solenoid valve B or C with new O-rings (A). While installing the valves, do not allow dust or other foreign particles to enter the transmission.
4. Check the connector for rust, dirt, or oil, then reconnect the connector securely.

## Mode 4

28250-P6H-024



Application:

4AT

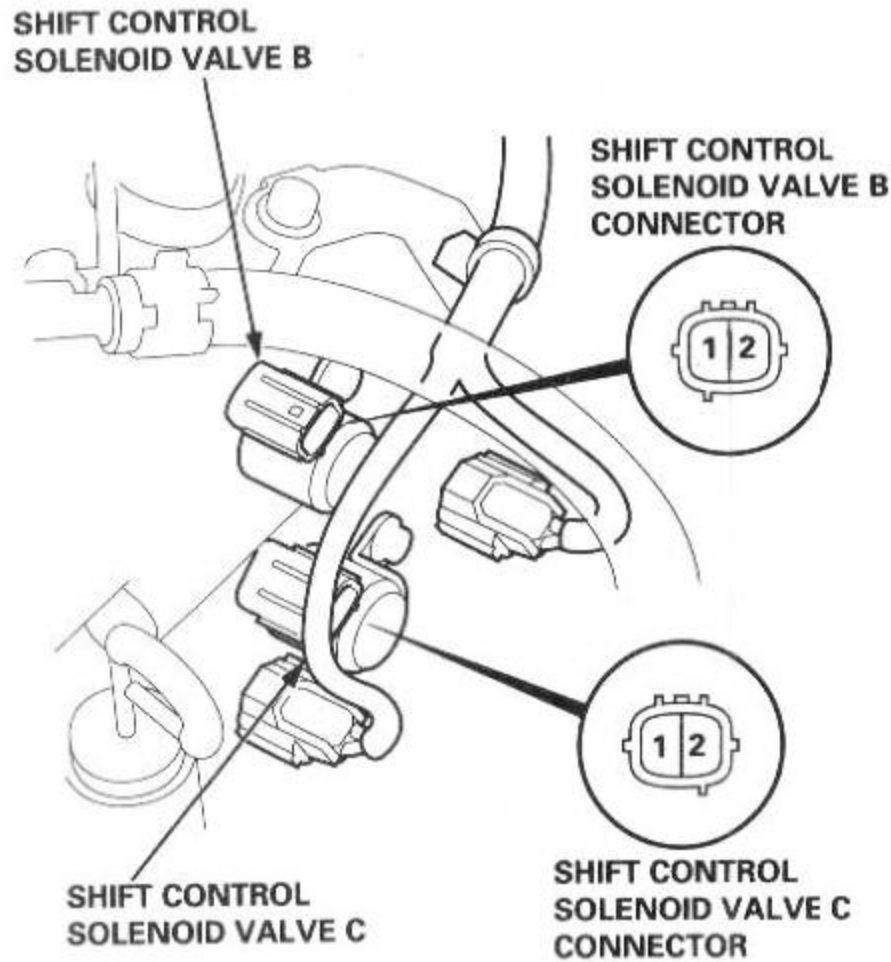
Honda Prelude 1997-2001

# Shift Control Solenoid Valve B/C

## Test

1. Disconnect the shift control solenoid valve B or C connector.
2. Measure the resistance between the No. 1 terminal and No. 2 terminal of the shift control solenoid valve B or C.

**STANDARD: 12 – 25  $\Omega$**

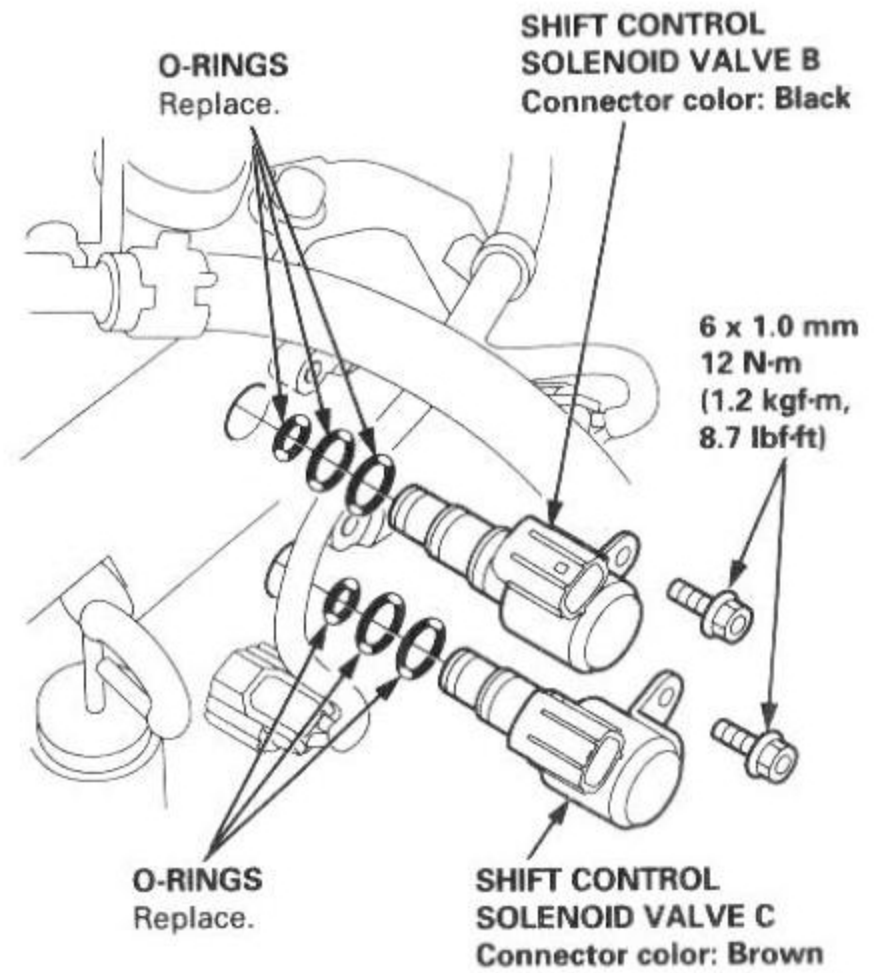


3. Replace the shift control solenoid valve B or C if the resistance is out of specification.
4. If the resistance is within the standard, connect the No. 2 terminal of the shift control solenoid valve B or C connector to the battery positive terminal individually. A clicking sound should be heard. Replace the shift control solenoid valve B or C if no clicking sound is heard.

## Replacement

**NOTE:** If shift control solenoid valves B and C are replaced or removed at the same time, be sure to reinstall them correctly. The connector color of shift control solenoid valve B is black, and the connector color of shift control solenoid valve C is brown.

1. Remove the mounting bolt and the shift control solenoid valve B or C.



2. Install a new shift control solenoid valve B or C with new O-rings.

**CAUTION:** While installing shift control solenoid valve B or C, do not allow dust or other foreign particles to enter the transmission.

3. Check the connector for rust, dirt, or oil, then reconnect the connector securely.

# Mode 5

Torque Converter Clutch Solenoid Valve

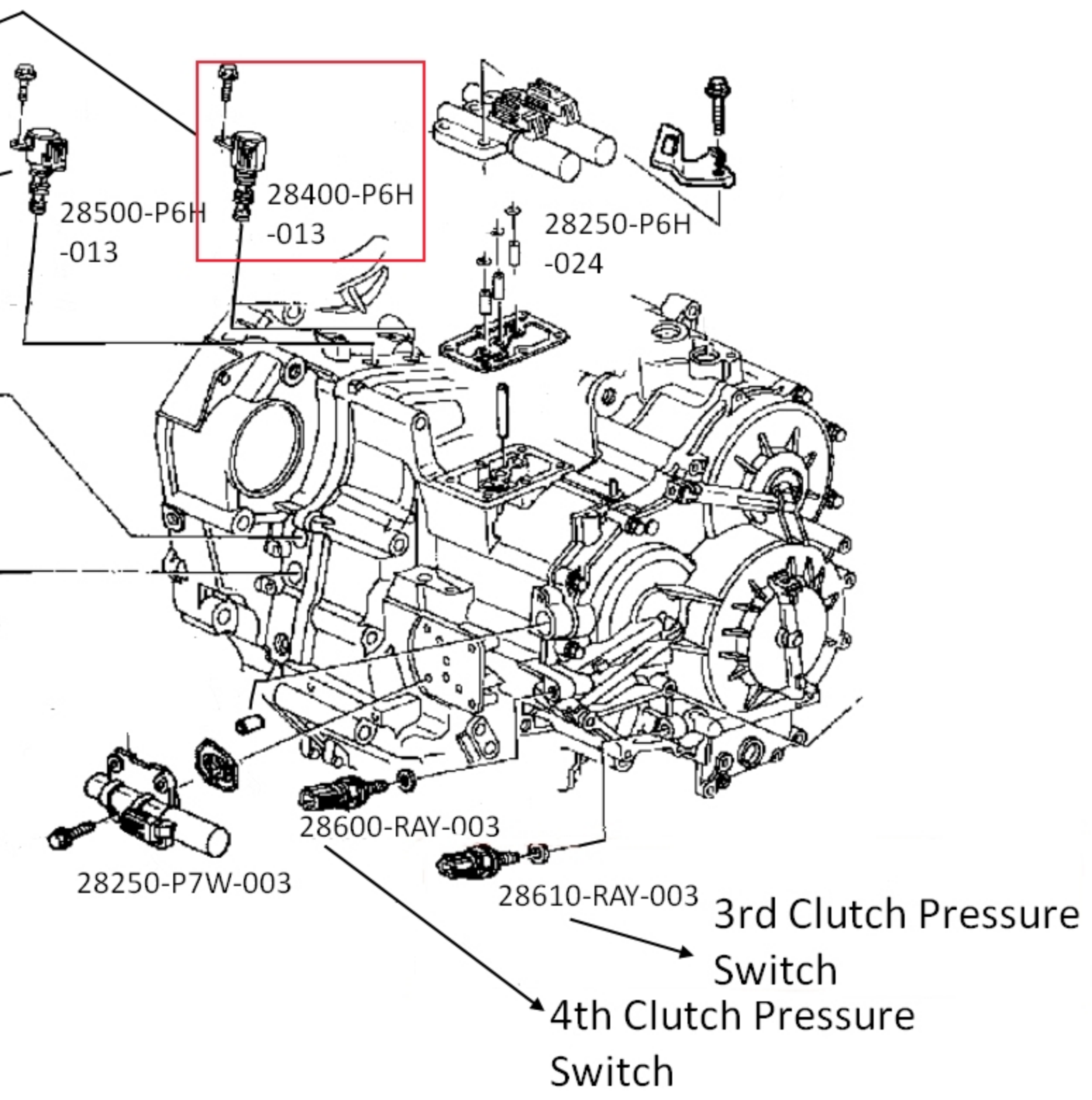
Shift Solenoid B

Shift Solenoid A

Shift Solenoid C

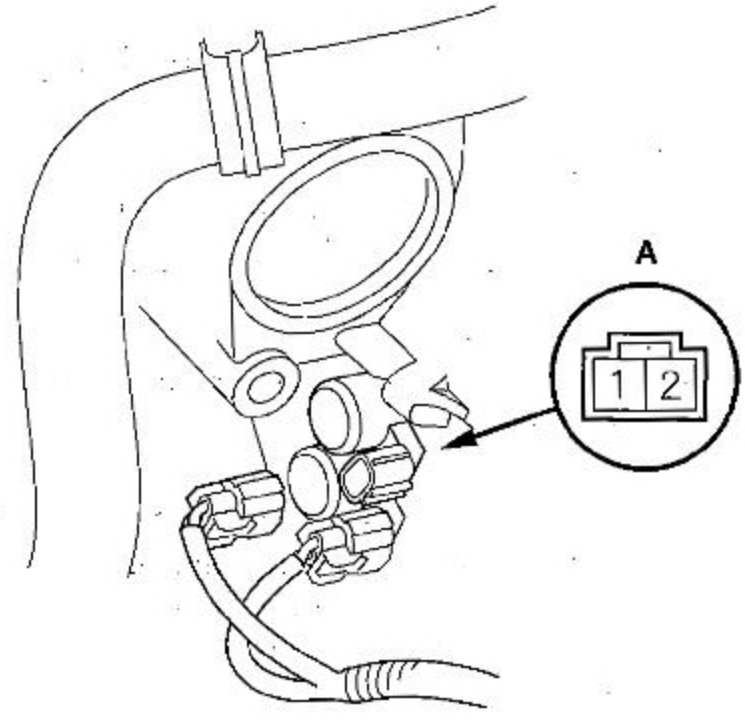
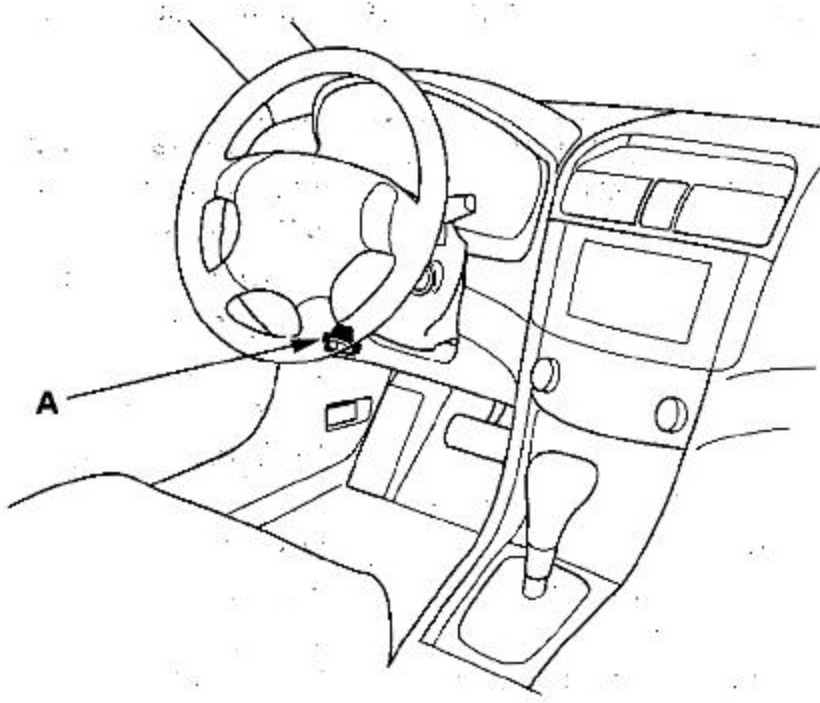
Application:

- 5AT
- Honda Accord V6 2003-2007
- Honda Pilot 2005
- Acura TL 2004-2006



## Shift Solenoid Valve A Test

1. Connect the HDS to the DLC (A).

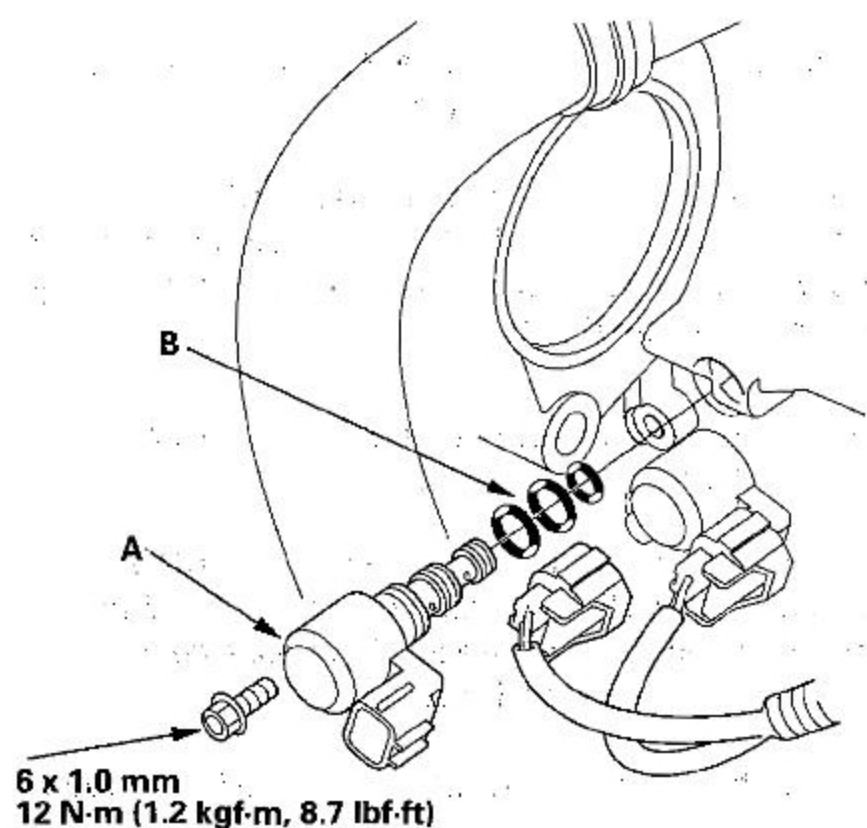


2. Select SHIFT SOL TEST in MISCELLANEOUS TEST MENU on the HDS.
3. Carry out A/T SHIFT SOL A test in SHIFT SOL TEST MENU with the HDS.
4. Shift solenoid valve A test had finished if the test result is OK.  
If no sound is heard, go to step 5.
5. Raise the vehicle, then remove the splash shield.
6. Disconnect the shift solenoid valve A connector and check the connector for good pin fit, corrosion, dirt, and oil. If the connector is OK, go to step 7. If not OK, repair the connector and do the test again.

7. Measure shift solenoid valve A resistance at the solenoid valve connector terminals.  
**Standard: 12 – 25 Ω**
8. Replace shift solenoid valve A if the resistance is out of standard (see page 14-181).
9. If the resistance is within the standard, connect the battery negative terminal to shift solenoid valve A connector terminal No. 2, and connect the battery positive terminal to terminal No. 1. A clicking sound should be heard.
10. Replace shift solenoid valve A if no clicking sound is heard (see page 14-181).
11. If a clicking sound is heard, check the BLU/YEL wire between the PCM and shift solenoid valve A for short or open. If the wire is OK, substitute a known-good PCM and retest.

## Shift Solenoid Valve A Replacement

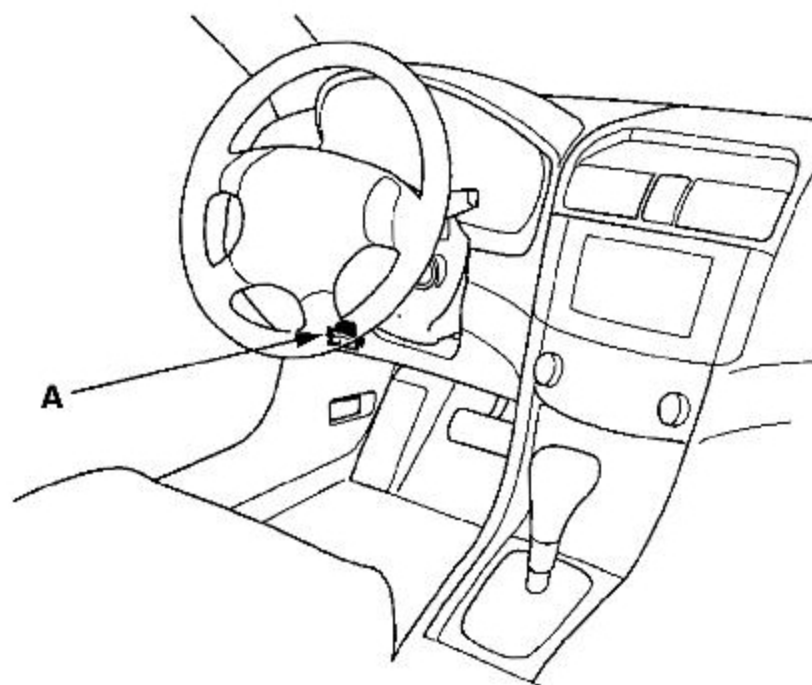
1. Make sure you have the customer's radio and navigation anti-theft codes, and write down the XM radio channel presets.
2. Remove the left side engine compartment cover.
3. Make sure the ignition switch is OFF. Disconnect the battery negative terminal, then disconnect the battery positive terminal.
4. Remove the battery hold-down bracket, then remove the battery and battery tray.
5. Remove the air intake cover and air intake tube.
6. Remove the intake air duct and air cleaner housing.
7. Remove the two bolts securing the battery base from under the vehicle, and remove the two bolts securing the battery base in the engine compartment, then remove the battery base.
8. Remove the starter.
9. Disconnect shift solenoid valve A connector, and remove shift solenoid valve A.



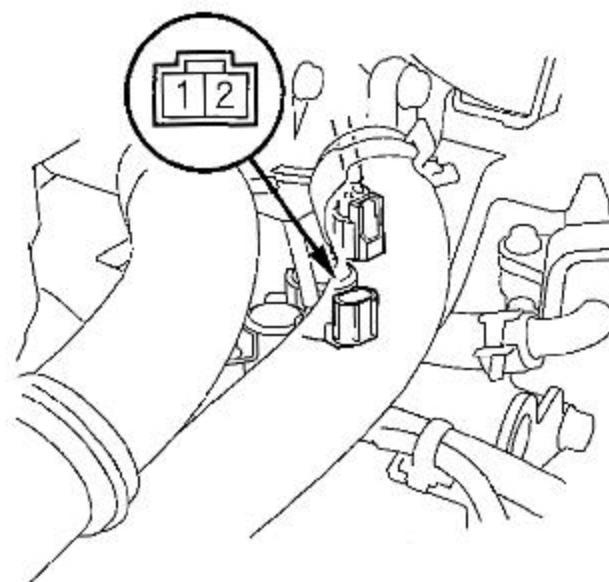
10. Install a new shift solenoid valve A with new O-rings (B). While installing the solenoid valve, do not allow dust or other foreign particles to enter the transmission.
11. Check the connector for corrosion, dirt, and oil, then connect the connector.
12. Install the starter.
13. Install the battery base, then install the air cleaner housing and intake air duct.
14. Install the air intake cover and air intake tube.
15. Install the battery tray, battery, and battery hold-down bracket then connect battery terminals.
16. Install the left side engine compartment cover.
17. Enter the radio and navigation anti-theft codes, and set the XM radio channel presets and the clock.

## Torque Converter Clutch Solenoid Valve Test

1. Connect the HDS to the DLC (A).



2. Select LOCKUP SOL TEST in MISCELLANEOUS TEST MENU on the HDS.
3. Carry out A/T LOCKUP SOL A test in LOCKUP SOL TEST MENU with the HDS.
4. Torque converter clutch solenoid valve test has finished if the test result is OK. If no sound is heard, go to step 5.
5. Disconnect torque converter clutch solenoid valve connector, and check the connector for good pin fit, corrosion, dirt, and oil. If the connector is OK, go to step 6. If the connector is not OK, repair the connector and do the test again.



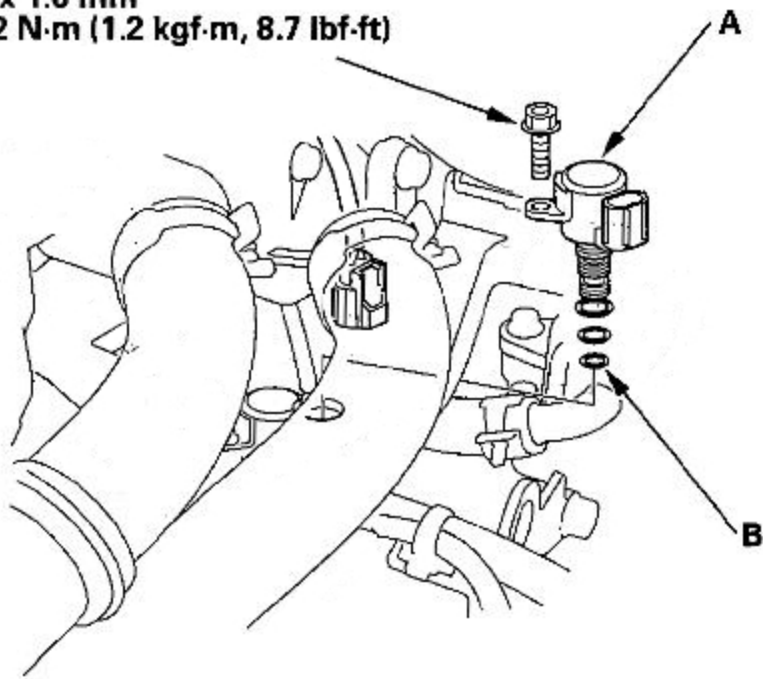
6. Measure torque converter clutch solenoid valve resistance at the solenoid valve connector terminals.  
**Standard: 12–25  $\Omega$**
7. Replace torque converter clutch solenoid valve if no resistance is out of standard (see page 14-187).
8. If the resistance is within the standard, connect the battery negative terminal to torque converter clutch solenoid valve connector terminal No. 2, and connect the battery positive terminal to the terminal No. 1.
9. Replace torque converter clutch solenoid valve if no clicking sound is heard (see page 14-187).
10. If a clicking sound is heard, the solenoid is OK. Check the YEL wire from the PCM to the torque converter clutch solenoid valve for a short or open. If the wire is OK, substitute a known-good PCM and retest.



# Torque Converter Clutch Solenoid Valve Replacement

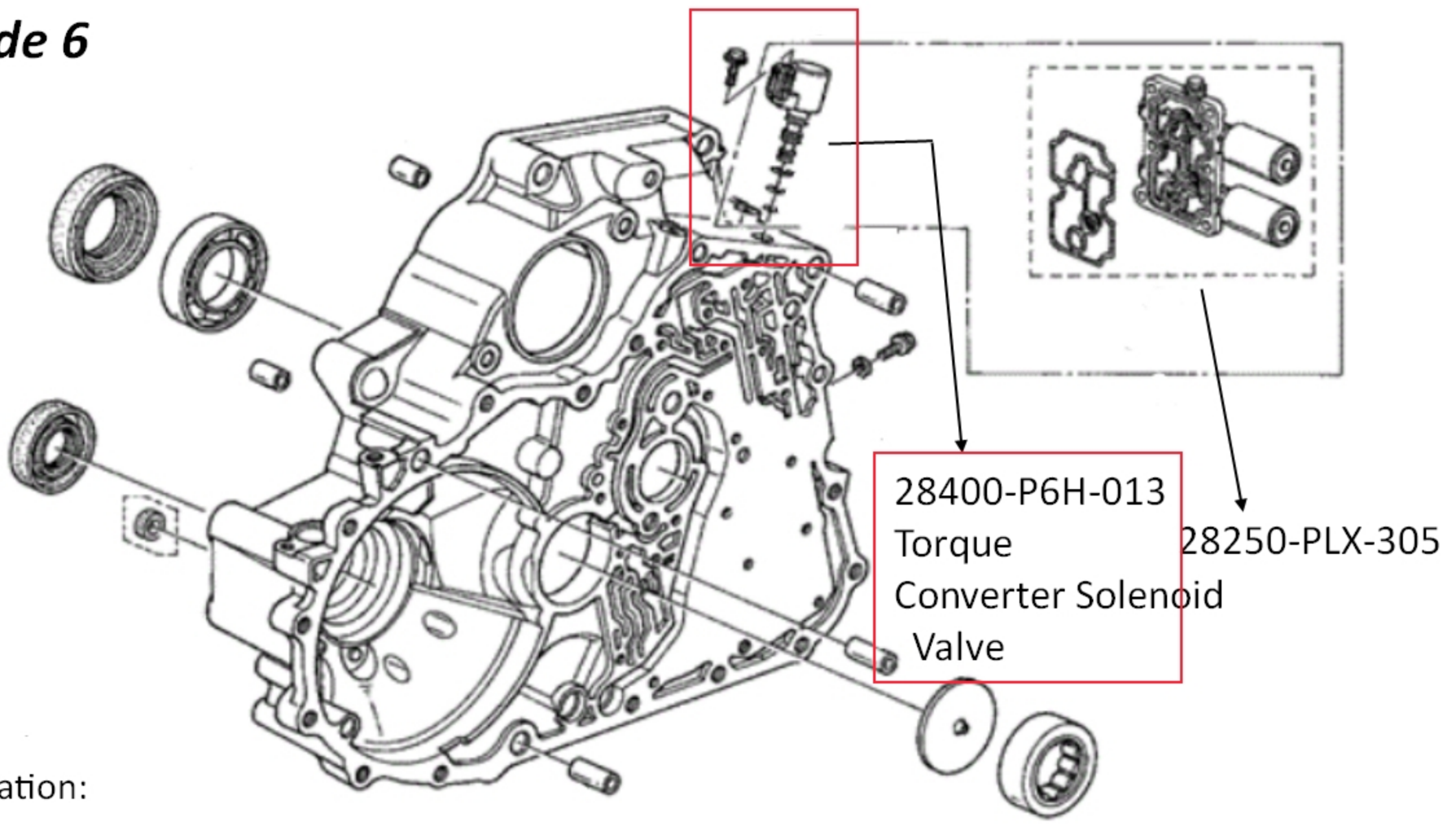
1. Remove the intake manifold cover.
2. Disconnect torque converter clutch solenoid valve connector and remove torque converter clutch solenoid valve (A)

6 x 1.0 mm  
12 N·m (1.2 kgf·m, 8.7 lbf·ft)



3. Install a new torque converter clutch solenoid valve with new O-rings (B) While installing the solenoid valve, do not allow dust or other foreign particles to enter the transmission.
4. Check connector for corrosion, dirt, and oil, then connect the connector.
5. Install the intake manifold cover.

# Mode 6



Application:  
4AT  
Honda Civic 2001-2005

## Torque Converter Clutch Solenoid Valve Test

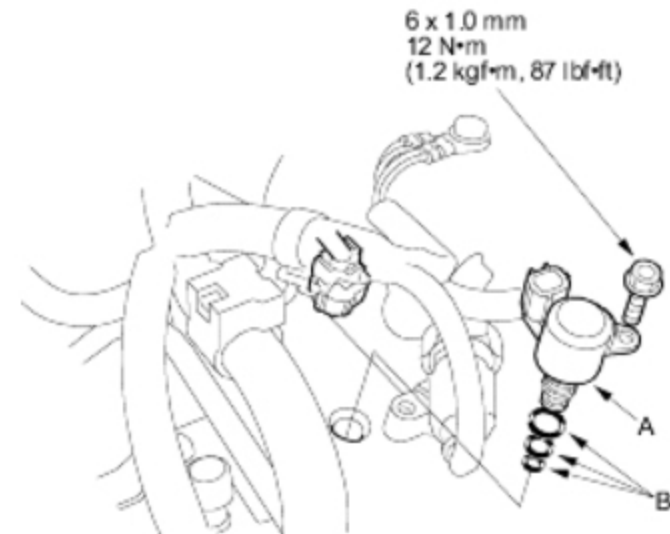
1. Disconnect the torque converter clutch solenoid valve connector.



2. Measure the resistance between the No. 1 and No. 2 terminals of the torque converter solenoid valve connector.  
**STANDARD: 12-25 ohm;**
3. Replace the torque converter clutch solenoid valve if the resistance is out of standard.
4. If the resistance is within the standard, connect the No. 2 terminal to the battery positive terminal and connect the No. 1 terminal to the battery negative terminal. A clicking sound should be heard. Replace the torque converter clutch solenoid valve if no sound is heard when connecting the battery positive terminal.

## Torque Converter Clutch Solenoid Valve Replacement

1. Remove the mounting bolt and the torque converter clutch solenoid valve (A).



2. Install a new torque converter clutch solenoid valve with new O-rings (B). While installing the valve, do not allow dust or other foreign particles to enter the transmission.
3. Check the connector for rust, dirt, or oil, then connect the connector securely.