

2007-2008 ENGINE PERFORMANCE

Catalytic Converter System - TL

COMPONENT LOCATION INDEX

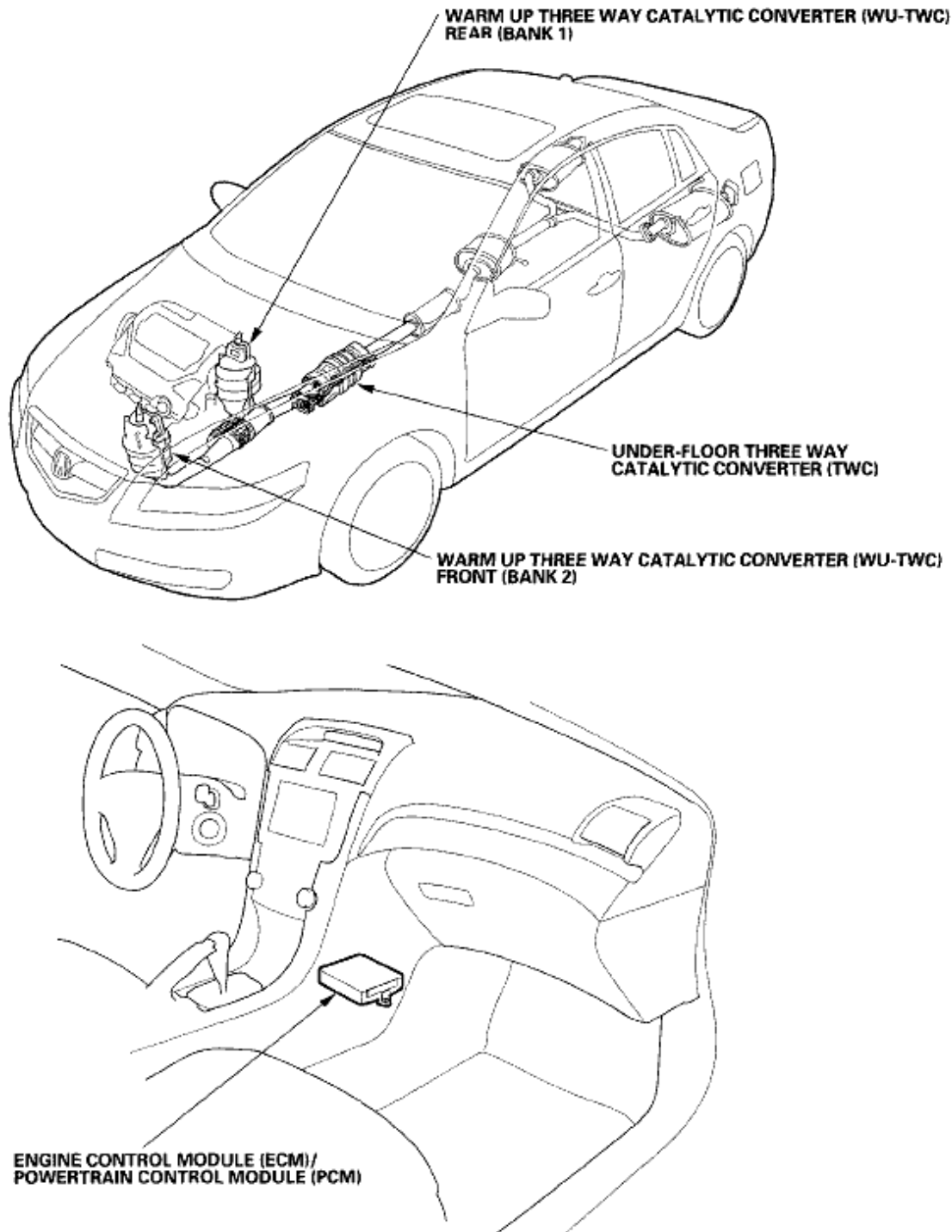


Fig. 1: Identifying Catalytic Converter System Component Location
Courtesy of AMERICAN HONDA MOTOR CO., INC.

DTC TROUBLESHOOTING

DTC P0420: REAR BANK CATALYST SYSTEM EFFICIENCY BELOW THRESHOLD (BANK 1);
DTC P0430: FRONT BANK CATALYST SYSTEM EFFICIENCY BELOW THRESHOLD (BANK 2)

NOTE:

- Before you troubleshoot, record all freeze data and any on-board snapshot, and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).
- If some of the DTCs listed below are stored at the same time as DTC P0420 and/or P0430*, troubleshoot those DTCs first, then recheck for DTC P0420 and/or P0430*.

P0137, P0138, P0157, P0158, P2270, P2271, P2272\ P2273*: Secondary HO2S (Sensor 2)

P0141, P0161: Secondary HO2S (Sensor 2) heater

- Poor quality fuel can cause these DTCs.
- Information marked with an asterisk (*) applies to the front bank (Bank 2).

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. Test-drive under these conditions:
 - Engine coolant temperature (ECT SENSOR 1) above 158°F (70°C)
 - Transmission in 5th gear (A/T in D position)
 - Vehicle speed between 45-75 mph (72-120 km/h) for 5 minutes or more with cruise control set
 - Maintain the vehicle speed at 55 mph (88 km/h) for 5 minutes or more with cruise control set
5. Monitor the OBD STATUS for DTC P0420 and/or P0430* in the DTCs MENU with the HDS.

Does the screen indicate EXECUTING?

YES -Go to step 6.

NO -If the screen indicates OUT OF CONDITION, go to step 4 and recheck. If the screen indicates PASSED, intermittent failure, the system is OK at this time. If the screen indicates FAILED, go to step 8.

6. Continue test driving until a result comes on.
7. Monitor the OBD STATUS for DTC P0420 and/or P0430* in the DTCs MENU with the HDS.

Does the screen indicate FAILED?

YES -Go to step 8.

NO -If the screen indicates PASSED, intermittent failure, the system is OK at this time. If the screen indicates EXECUTING, keep driving until a result comes on. If the screen indicates OUT OF CONDITION, go to step 4 and recheck.

8. Turn the ignition switch OFF.
9. Replace the WU-TWC:
 - For DTC P0420, replace the rear WU-TWC (Bank 1) (see **REAR (BANK 1)**)
 - For DTC P0430, replace the front WU-TWC (Bank 2) (see **FRONT (BANK 2)**)
10. Turn the ignition switch ON (II).
11. Reset the ECM/PCM with the HDS.
12. Do the ECM/PCM idle learn procedure (see **ECM/PCM IDLE LEARN PROCEDURE**).
13. 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.
14. Test-drive for about 10 minutes, continually changing the vehicle speed.
15. Check the CATA MONITOR CONDITION in the DATA LIST with the HDS.

Is the temperature OK?

YES -Go to step 16.

NO -Go to step 13 and recheck.

16. Test-drive under these conditions:
 - Engine coolant temperature (ECT SENSOR 1) above 158°F (70°C)
 - Transmission in 5th gear (A/T in D position)
 - Vehicle speed at 55 mph (88 km/h) for 5 minutes or more with cruise control set
17. Monitor the OBD STATUS for DTC P0420 and/or P0430* in the DTCs MENU with the HDS.

Does the screen indicate EXECUTING?

YES -Go to step 18.

NO -Go to step 16 and recheck.

18. Continue test driving until a result comes on.
19. Check for Temporary DTCs or DTCs with the HDS.

Is DTC P0420 and/or P0430 indicated?*

YES -Check the fuel quality, then go to step 1.

NO -Go to step 20.

20. Monitor the OBD STATUS for DTC P0420 and/or P0430* in the DTCs MENU with the HDS.

Does the screen indicate PASSED?

YES -Troubleshooting is complete. If any other Temporary DTCs or DTCs were indicated in step 19, go to the indicated **DTCS TROUBLESHOOTING**.

NO -If the screen indicates FAILED, check for poor connections or loose terminals at the secondary HO2S (Sensor 2) and the ECM/PCM, then go to step 1. If the screen indicates EXECUTING, keep driving until a result comes on. If the screen indicates OUT OF CONDITION, go to step 13.

WARM UP TWC REMOVAL/INSTALLATION

FRONT (BANK 2)

1. Remove the condenser fan shroud (see **RADIATOR AND FAN REPLACEMENT**).
2. Disconnect the front air fuel ratio (A/F) sensor connector and front secondary heated oxygen sensor (secondary HO2S) connector.
3. Carefully remove the front WU-TWC.

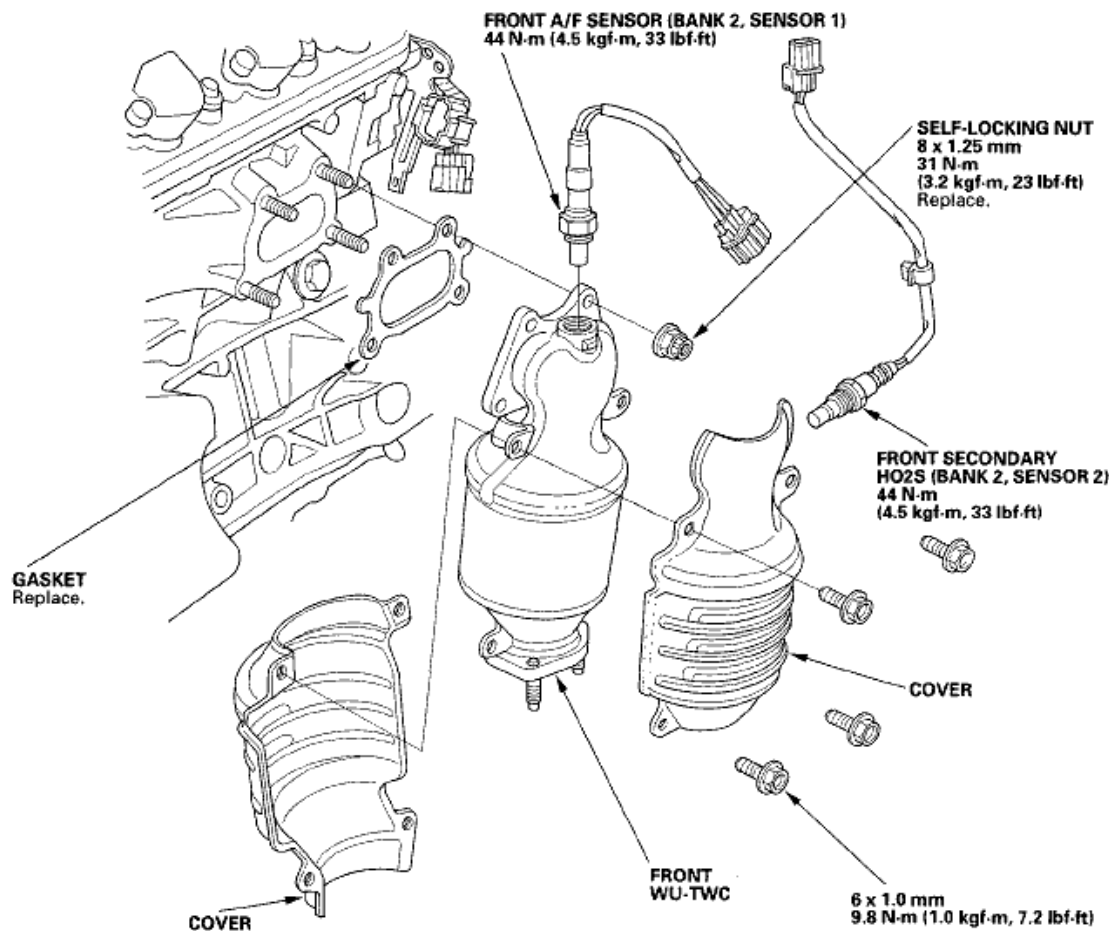


Fig. 2: Identifying Warm UP TWC (Front) Remove/Install Components With Torque Specifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Carefully install the front WU-TWC, and tighten the nuts in a crisscross pattern in two or three steps.
5. Install the parts in the reverse order of removal.

REAR (BANK 1)

1. Remove the intermediate shaft (see **INTERMEDIATE SHAFT REMOVAL**).
2. Disconnect the rear air fuel ratio (A/F) sensor connector and rear secondary heated oxygen sensor (secondary HO2S) connector.
3. Remove the rear WU-TWC bracket, then remove the rear WU-TWC.

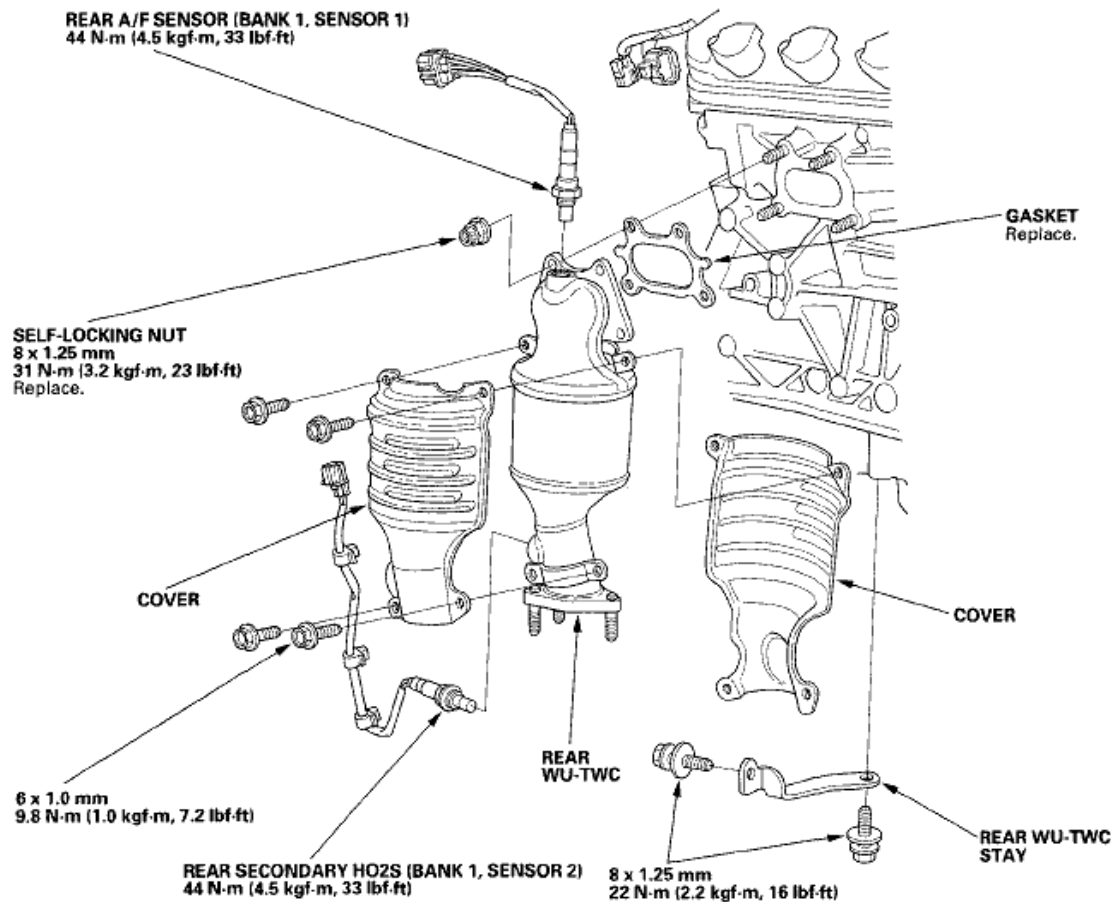


Fig. 3: Identifying Warm UP TWC (Rear) Remove/Install Components With Torque Specifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Install the rear WU-TWC, and tighten the nuts in a crisscross pattern in two or three steps.
5. Install the parts in the reverse order of removal.

UNDER-FLOOR TWC REMOVAL/INSTALLATION

1. Remove the under-floor TWC (A).

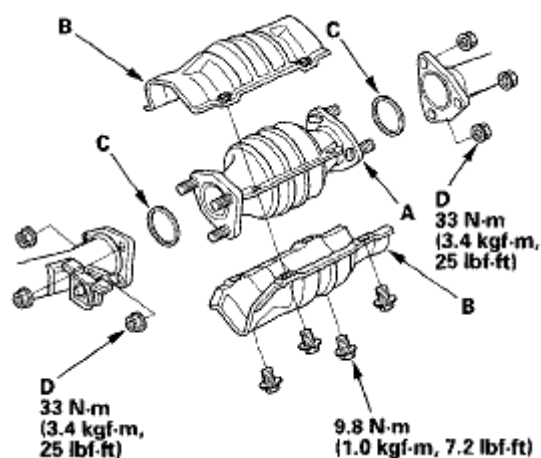


Fig. 4: Identifying Under-Floor TWC Remove/Install Components With Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Remove the converter cover (B).
3. Install the parts in the reverse order of removal with new gaskets (C) and new self-locking nuts (D).