

**2000-06 ENGINE PERFORMANCE**

**Catalytic Converter System - Insight**

**DTC TROUBLESHOOTING**

**DTC P0420: CATALYTIC SYSTEM EFFICIENCY BELOW THRESHOLD**

**NOTE:**

- **If some of the DTCs listed below are stored at the same time as DTC P0420, troubleshoot those DTCs first, then recheck for DTC P0420.**

**P0137, P0138: Secondary HO2S (Sensor 2)**

**P0141: Secondary HO2S (Sensor 2) heater**

- **Before you troubleshoot, record all freeze data and review the general troubleshooting information (see GENERAL TROUBLESHOOTING INFORMATION).**

1. Reset the ECM with the HDS (see HDS CLEAR COMMAND).
2. Start the engine. Hold the engine speed at 3,000 RPM without load (in Park or neutral) until the radiator fan comes on.
3. Test-drive at 40-55 mph (64-88 km/h) for about 2 minutes. Try to keep the engine speed between 1,500 and 2,500 rpm. Then decelerate for at least 3 seconds with the throttle completely closed. Reduce the vehicle speed to 56 km/h (35 mph), and try to hold it until the HDS indicates catalyst readiness is set to complete.

*Is the test result FAIL?*

**YES** -Check for cracks or melting in the three way catalytic converter (TWC). If it is damaged, replace the TWC.

**NO** -Intermittent failure, system is OK at this time.

**DTC P1420: NOX ADSORPTIVE CATALYTIC SYSTEM EFFICIENCY BELOW THRESHOLD (2002-2003 M/T MODELS); DTC P2000: NOX ADSORPTIVE CATALYTIC SYSTEM EFFICIENCY BELOW THRESHOLD (2004-2006 M/T MODELS)**

**NOTE:**

- Information marked with an asterisk (\*) applies to 2002-2003 M/T models.
- Information marked with double asterisk (\*\*) applies to 2004-2006 M/T models.
- If some of the DTCs listed below are stored at the same time as DTC P1420\* (P2000)\*\* , troubleshoot those DTCs first, then recheck for DTC P1420\* (P2000)\*\*.

**P0137, P0138: Secondary HO2S (Sensor 2)**

**P0141: Secondary HO2S (Sensor 2) heater**

**P0143, P0144: Third HO2S (Sensor 3)**

**P0147: Third HO2S (Sensor 3) heater**

- Before you troubleshoot, record all freeze data and review the general troubleshooting information (see **GENERAL TROUBLESHOOTING INFORMATION** ).

1. Reset the ECM with the HDS (see **HDS CLEAR COMMAND** ).
2. Start the engine. Hold the engine speed at 3,000 rpm without load (in neutral) until the radiator fan comes on.
3. Keep the engine speed at 4,000 rpm for about 10 minutes.
4. Test-drive under these conditions:
  - 55-65 mph (89-105 km/h) steady speed
  - Transmission in 4th or 5th gear
  - Until the readiness code or Temporary DTC P1420\* (P2000)\*\* and/or P1420\* (P2000)\*\* is set
5. Check for a Temporary DTCs or DTCs with the HDS.

*Is DTC P1420\* (P2000)\*\* indicated?*

**YES** -Check for cracks or melting in the NOx adsorptive three way catalytic converter. If it is damaged, replace the NOx adsorptive TWC.

**2006 Honda Insight**

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**NO** -Intermittent failure, system is OK at this time.