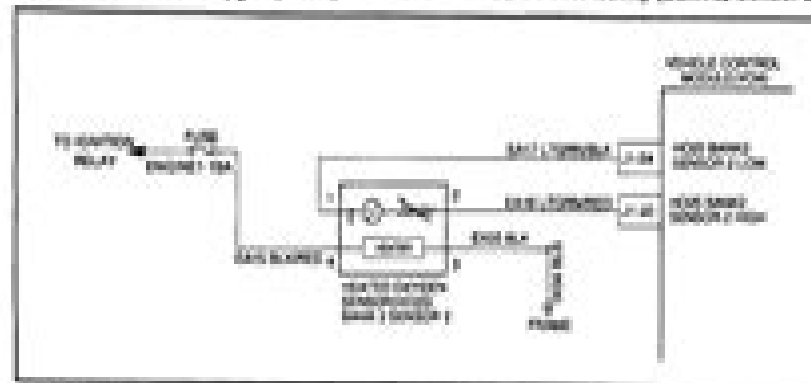


DTC P0151 - Heated Oxygen (HO2S) Sensor Circuit High Voltage (Bank 2, Sensor 2)

Step	Action	Value(s)	Yes	No
1	Important: Before erasing DTCs, use the scan tool to record Freeze Frame and Failure Records for reference, as data will be lost when the "Clear Info" function is used. Was the "On-Board Diagnostic (OBD) System Check" performed?	---	Go to Step 2	Go to OBD System Check
2	1. Connect the scan tool. 2. Engine at normal operating temperature. 3. Vehicle in Park or Neutral. 4. Apply the parking brake. 5. Increase the engine speed to the specified value. Does the scan tool data display indicate HO2S (Bank 2 Sensor 2) voltage fluctuates above the specified value?	1200 RPM 0.87V (900mV)	Go to Step 3	Go to Step 4
3	1. Disconnect the HO2S (Bank 2 Sensor 2). 2. Jumper the HO2S (Bank 2 Sensor 2) Low circuit (VCM side) and the HO2S (Bank 2 Sensor 2) Hi circuit to ground. 3. Turn the ignition "ON," engine "OFF." Does the scan tool data display indicate HO2S (Bank 2 Sensor 2) voltage is below the specified value?	0.00V (000mV)	Go to Step 5	Go to Step 4
4	The DTC is intermittent. If no additional DTCs are stored, refer to "Diagnostic Aids." If additional DTCs are stored, refer to these Tables. Are any additional DTCs stored?	---	Refer to Applicable DTC Table	Go to Step 5
5	Refer to "Diagnostic Aids."	---	---	---
6	Replace the VCM. Attention: If the VCM is faulty, the new VCM must be programmed. Refer to VCM Replacement And Programming Procedures. Is the action complete?	---	Go to Step 7	---
7	1. Using the scan tool, select "DTC," "Clear Info." 2. Start the engine and idle until normal operating temperature is reached. 3. Select "DTC," "Specific," then enter the DTC number which was set. 4. Operate the vehicle within the conditions for setting this DTC as specified in the supporting test. Does the scan tool indicate that this diagnostic has not passed?	---	Go to Step 8	Go to Step 3
8	Using the scan tool, select "Capture On," "Review Info." Are any additional DTCs displayed that have not been diagnosed?	---	Go to the Applicable DTC Table	System OK

DTC P0160 - Heated Oxygen (HO2S) Sensor Circuit Insufficient Activity (Bank 2, Sensor 2)



Circuit Description

The VCM supplies a voltage of about .45V (450 mV) between the HO2S High and the HO2S Low circuits. If measured with a 10 megohm digital voltmeter, the may read as low as .30V. The Heated Oxygen Sensor HO2S (Bank 2 Sensor 2) varies the voltage within a range of about .7V if the exhaust is rich, down through about .05V if exhaust is lean.

The HO2S heater circuit is used to warm the HO2S to a temperature of about 300°C (572°F) for proper operation.

The HO2S heater provides for faster sensor warmup which allows the sensor to become active in a shorter period of time and remain active during long extended idle. DTC P0160 determines if the HO2S or the HO2S circuit has developed an open. DTC P0160 is a type "B" DTC.

Conditions for Setting the DTC

- No TP sensor DTCs
- No EVAP DTCs
- No IAT sensor DTCs
- No MAP DTCs
- No SCT sensor DTCs
- No MAP sensor DTCs
- No misfire test in progress
- No device controls active
- System voltage is at least 9V
- Engine run time is at least 2 minutes

Open test results

- Engine run time is at least 2 minutes.
- DTC P0160 not active
- "Closed Loop"
- HO2S (Bank 2 Sensor 2) voltage is greater than 200 mV but less than 300 mV

Action Taken When the DTC Sets

With a current DTC set, the VCM will turn "OFF" the MIL (Malfunction Indicator Lamp).

Conditions for Clearing the MIL/DTC

The VCM will turn the MIL "OFF" after three consecutive trips without a fault condition present. A history DTC will be cleared if no fault conditions have been detected for forty warmup cycles (coolant temperature has risen 40°F from start-up coolant temperature and engine coolant temperature exceeds 180°F) and same ignition cycle as the scan tool clearing feature has been used.

Diagnostic Aids

An intermittent may be caused by a poor connection, rubbed through wire insulation, or a wire broken inside the insulation.

Check for the following:

- Poor connection or damaged harness: inspect harness connectors for backed out terminals, improper mating, broken pins, improperly formed or damaged terminals, poor terminal to wire connection, and damaged harness.
- Faulty HO2S (Bank 2 Sensor 2) heater or heater circuit: With the ignition "ON," engine "OFF," the HO2S (Bank 2 Sensor 2) voltage displayed on a scan tool should gradually drop to below .300V, indicating that the heater is working properly. If not, disconnect the HO2S (Bank 2 Sensor 2) and connect a test light between terminals "Q" and "G." If the test light does not light, repair the open in the affected circuit. If the test light lights, replace HO2S (Bank 2 Sensor 2).

W4500 Service Manual

Didier Musso



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