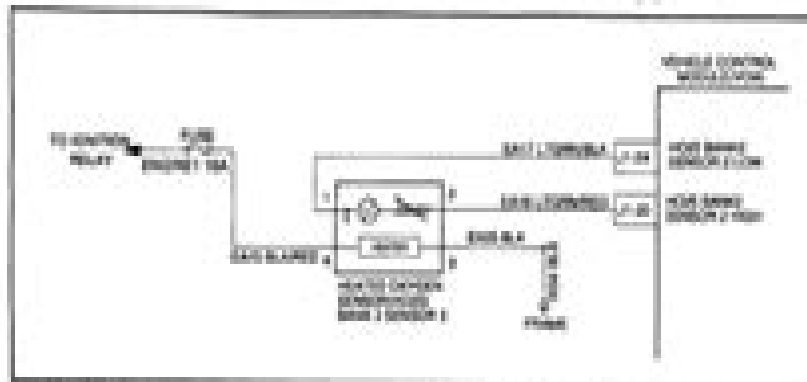


## DTC P0158 - Heated Oxygen (HO2S) Sensor Circuit High Voltage (Bank 2, Sensor 2)

Step	Action	Measure(s)	Yes	No
1	Important: Before reading 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 Diagnostics (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 1) voltage fluct above the specified value?)	1.00V (H/Vol) 0.875V (SP/Vol)	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) H 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?)	0.20V (SP/Vol)	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 those tables. Are any additional DTCs stored?	---	Go to Step 5	Go to Step 4
5	Refer to "Diagnostic Aids."	---	---	---
6	Replace the VCM. Notice: 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 the 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 8
8	Using the scan tool, select "Capture Info," "Release Info." Are any additional DTCs displayed that have not been diagnosed?	---	Go to the Appropriate DTC Table	System OK

## DTC P0158 - 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, this may read as low as .30V. The Heated Oxygen Sensor HO2S (Bank 2 Sensor 2) varies the voltage within a range of about .1V if the exhaust is rich, down through about .01V at about 1.0V.

The HO2S heater provides for faster sensor warm-up which allows the sensor to become active in a shorter period of time and remain active during long extended idle. DTC P0158 determines if the HO2S or the HO2S circuit has developed an open. DTC P0158 is a type "H" DTC.

## Conditions for Setting the DTC

- No TP sensor DTCs
- No CMP DTCs
- No MAF sensor DTCs
- No MAP DTCs
- No ECT sensor DTCs
- No IATP sensor DTCs
- No Intake Air in Progress
- No Service 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 P0158 not active
- "Closed Loop"
- HO2S (Bank 2 Sensor 2) voltage is greater than 200 mV but less than 500 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 10% warm-up cycles (coolant temperature has risen 40°F from starting coolant temperature and engine coolant temperature exceeds 190°F) and some ignition cycle(s) or 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 connections for backed out terminals, improper mating, broken locks, 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 "G" and "B." If the test light does not light, repair the open in the affected circuit. If the test light goes, replace HO2S (Bank 2 Sensor 2).

# Gmc W4500 2001 Owner Manual

**SJ Ball**



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