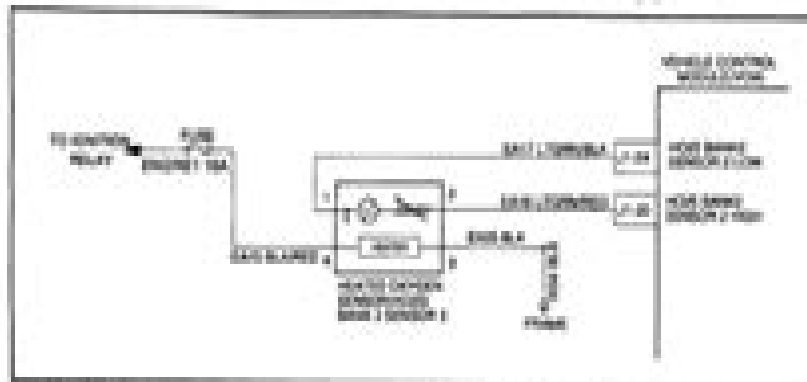


## DTC P0158 - Heated Oxygen (HO2S) Sensor Circuit High Voltage (Bank 2, Sensor 2)

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 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 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 (H/Vol) between the HO2S High and the HO2S Low circuit. If measured with a 10-wire digital connector, this may read as low as 30V. The Heated Oxygen Sensor HO2S (Bank 2 Sensor 2) varies the voltage within a range of about 0.1V if the exhaust is rich, down through about 0.1V to about 0.9V if the exhaust is lean. The HO2S (Bank 2 Sensor 2) is connected to the VCM via a 10-wire digital connector.

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 "M" 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 Pressure sensor active
- No Intake Air Pressure sensor 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 20V (H/Vol) 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 180°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

**D Kirk**



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**gcse biology mark scheme unit 01 biology june 2013** - Jul 16 2023

web mark scheme general certificate of secondary education biology bl1fp june 2013 10 question 5 question answers extra information mark 5 a 8 05 8 1 8 correct answer with or without working gains 2 marks allow 1 mark for 8 0 or 8 10 allow 35 100 x 23 million for 1 mark if no answer or incorrect answer

**science a biology** - Aug 17 2023

web mark scheme gcse biology bl1fp june 2017 4 quality of written communication and levels marking in question 9 b students are required to produce extended written material in english and will be assessed on the quality of their written communication as well as the standard of the scientific response students will be

*biology syllabus 8876 singapore examinations and* - Jun 03 2022

web of scientific literacy the h1 biology syllabus is distilled from the h2 biology syllabus and key changes to the h1 science curriculum are in tandem with the changes in the h2 science curriculum the biology syllabus is developed as a seamless continuum from o level to a level without the need for topics to be revisited at a level

**science a bl1fp unit biology b1 f exam qa** - Oct 07 2022

web science a bl1fp unit biology b1 biology unit biology b1 friday 5 june 2015 1 30 pm to 2 30 pm for this paper you must have a ruler you may use a calculator time allowed 1 hour instructions use black ink or black ball point pen fill in the boxes at the top of this page answer all questions

**science a biology** - Sep 18 2023

web science a biology bl1fp mark scheme 4405 4401 june 2016 version 1 0 final mark scheme mark schemes are prepared by the lead assessment writer and considered together with the the total marks available for the question the typical answer or answers which are expected

**science a bl1fp f physics maths tutor** - Jan 10 2023

web 2 do not write outside the box 02 g k93070 jun13 bl1fp answer all questions in the spaces provided 1 the photograph shows an athlete at the start of a race 1 a the athlete s sense organs contain special cells these special cells detect changes in the environment 1 a i lista shows changes in the environment list b shows some of the

**aqg bl1fp qp jun15 studocu** - Sep 06 2022

web 4 b ii what type of cell is cell draw a ring around the correct answer 1 mark an egg cell a skin cell a sperm cell 4 b iii use the correct answer from the box to complete the sentence 1 mark cell membrane cytoplasm nucleus