

P0032

HO2S Heater Control Circuit High Bank 1 Sensor 1

Symptoms

- Engine Light ON (or Service Engine Soon Warning Light)

Possible causes

- Faulty Heated Oxygen Sensor (H2OS) Bank 1 Sensor 1
- Heated Oxygen Sensor (H2OS) Bank 1 Sensor 1 harness is open shorted to ground
- Heated Oxygen Sensor (H2OS) Bank 1 Sensor 1 circuit poor electrical connection
- Heated Oxygen Sensor (H2OS) Bank 1 Sensor 1 circuit fuse
- Faulty Engine Control Module (ECM)

Tech notes

HO2S Heater Control Circuit High Bank 1 Sensor 1 is the generic definition for the P0032; however your vehicle's manufacturer may have a different definition and information for the P0032 code.

Description

Oxygen Sensors (O2S) or Heated Oxygen Sensors (HO2S) need to reach a minimum operating temperature of 750 degrees F to produce an accurate voltage signal. The faster the heated oxygen sensor reaches that temperature the faster the sensor will start sending an accurate signal to the Engine Control Module (ECM). In order to achieve the require temperature, a heater element is included inside the heated oxygen sensor. The ECM controls the heated oxygen sensor heater element based on signals from the engine coolant temperature and engine load. The ECM controls the heater element circuit by allowing current flow to ground. The ECM monitors the voltage signal received through the heater element circuit and determines the state of the circuit by comparing the voltage detected with the factory specifications.

When is the code detected?

The P0032 is set when the ECM detects an excessively high voltage through the heated oxygen sensor heater circuit