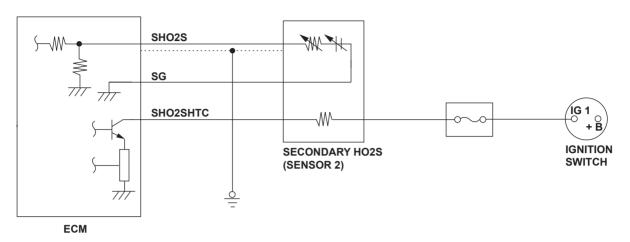
Advanced Diagnostics

DTC P0141: Secondary Heated Oxygen Sensor (Secondary HO2S) (Sensor 2) Heater Circuit Malfunction



P0137-0001

General Description

A heater for the zirconia element is embedded in the secondary heated oxygen sensor (secondary HO2S), and it is controlled by the engine control module (ECM). When activated, it heats the sensor to stabilize and speed up the detection of oxygen content when the exhaust gas temperature is cold.

If the secondary HO2S heater draws more or less than a specified amperage, the ECM detects a malfunction and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	5 seconds or more
DTC Type	One drive cycle, MIL ON

Enable Conditions

Condition	Minimum	Maximum
Engine coolant temperature	41°F (5°C)	_
Battery voltage (IGP terminal of ECM)	10.5 V	16 V
State of the engine	Running	
No active DTCs	Secondary HO2S Heater, ECT	
Other	During secondary HO2S heater operation	

Malfunction Threshold

The current is 0.4 A^{*1} , 0.2 A^{*2} or less, or 6.0 A^{*1} , 3.4 A^{*2} or more, for at least 5 seconds when the heater is on.

^{*1:} CVT

^{*2:} M/T

Driving Pattern

Start the engine. Hold the engine at 3,000 rpm with no load (in park or neutral) until the radiator fan comes on.

Diagnosis Details

Conditions for illuminating the MIL

When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored in the ECM memory.

Conditions for clearing the MIL

The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs. The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.