

DTC	P0136	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)
------------	--------------	---

DTC	P0156	Heated Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)
------------	--------------	---

CIRCUIT DESCRIPTION

Refer to Insufficient Coolant Temp. for Closed Loop Fuel Control on page [DI-192](#).

DTC No.	DTC Detecting Condition	Trouble Area
P0136 P0156	Voltage output of the heated oxygen sensor (Bank 1 Sensor 2, Bank 2 Sensor 2) remains at 0.4 V or more or 0.5 V or less when the vehicle is driven at 30km/h (19 mph) or more after the engine is warmed up (2 trip detection logic)	<ul style="list-style-type: none"> Heated oxygen sensor

HINT:

- Bank 1 refers to the bank that includes cylinder No.1.
- Sensor 2 refers to the bank that does not include cylinder No.1.
- Sensor 2 refers to the sensor farther away from the engine body.

WIRING DIAGRAM

Refer to Insufficiect Coolant Temp. for Closed Loop Fuel Control on page [DI-192](#).

INSPECTION PROCEDURE

1	Are there any other codes (besides DTC P0136 or P0156) being output?
----------	---

YES

Go to relevant DTC chart.

NO

2	Check for open and short in harness and connector between ECM and heated oxygen sensor (See page IN-29).
----------	---

NG

Repair or replace harness or connector.

OK

3	Check the output voltage of heated oxygen sensor (bank 1 sensor 2, bank 2 sensor 2).
---	---

PREPARATION:

- (a) Connect the OBD II scan tool or LEXUS hand-held tester to the DLC 3.
- (b) After warming up the engine, race the engine at 2,500 rpm for 3 mins.

CHECK:

Read the output voltage of heated oxygen sensor (bank 1 sensor 2, bank 2 sensor 2) when racing the engine after 3 mins. have elapsed.

HINT:

Perform quick racing to 4,000 rpm for 3 min. using accelerator pedal.

OK:

Heated oxygen sensor output voltage: Alternates from 0.4 V or less to 0.5 V or more.

OK

Check that each connector is properly connected.

NG

**Replace heated oxygen sensor
(bank 1 sensor 2, bank 2 sensor 2).**