

DTC	P0130	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)
------------	--------------	--

DTC	P0150	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 1)
------------	--------------	--

CIRCUIT DESCRIPTION

Refer to DTC P0125 on page [DI-46](#).

DTC No.	DTC Detecting Condition	Trouble Area
P0130 P0150	Voltage output of heated oxygen sensor remains at 0.35 V or more, or 0.70 V or less, during idling after engine is warmed up (2 trip detection logic)	• Open or short in heated oxygen sensor circuit • Heated oxygen sensor • Air induction system • Fuel pressure • Injector • ECM

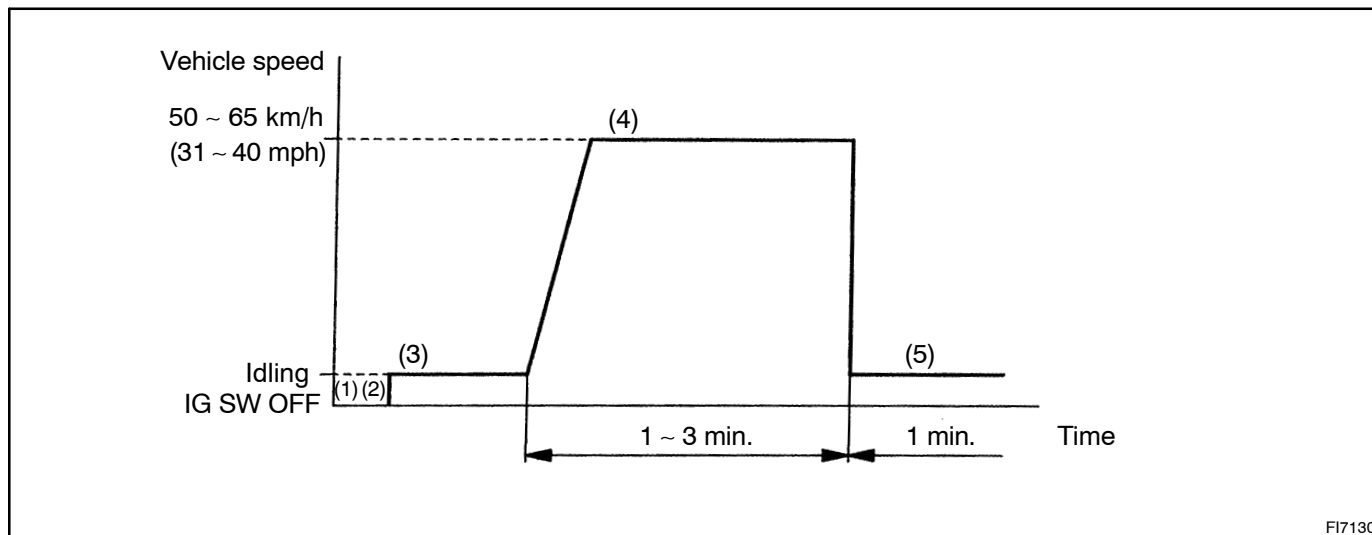
HINT:

- Bank 1 refers to bank that includes cylinder No.1.
- Bank 2 refers to bank that does not include cylinder No.1.
- Sensor 1 refers to the sensor closer to the engine body.
- The heated oxygen sensor's output voltage and the short-term fuel trim value can be read using the OBD II scan tool or LEXUS hand-held tester.

WIRING DIAGRAM

Refer to DTC P0125 on page [DI-46](#).

CONFIRMATION DRIVING PATTERN



2 Check output voltage of heated oxygen sensor during idling.

PREPARATION:

Warm up the heated oxygen sensor with the engine speed at 2,500 rpm for approx. 90 sec.

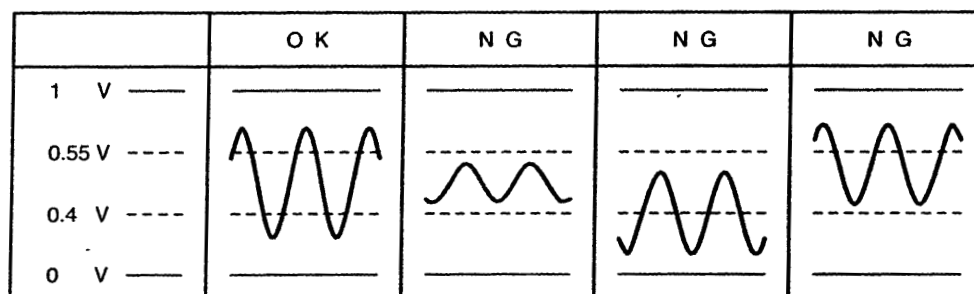
CHECK:

Use the OBD II scan tool or LEXUS hand-held tester to read the output voltage of the heated oxygen sensor during idling.

OK:

Heated oxygen sensor output voltage:

Alternates repeatedly between less than 0.4 V and more than 0.55 V (See the following table).



P18349

OK

Go to step 7.

NG

3 Check for open and short in harness and connector between ECM and heated oxygen sensor (See page [IN-34](#)).

NG

Repair or replace harness or connector.

OK

4 Check air induction system (See page [SF-1](#)).

NG

Repair or replace.

OK

5 Check fuel pressure (See page [SF-7](#)).

NG

Check and repair fuel pump, pressure regulator, fuel pipe line and filter (See page [SF-1](#)).

OK

6 Check injector injection (See page [SF-24](#)).

NG

Replace injector.

OK

Replace heated oxygen sensor.

7 Perform confirmation driving pattern (See page [DI-52](#)).

Go

8 Is there DTC P0130 or P0150 being output again?

NO

Check for intermittent problems (See page [DI-3](#)).

YES

Check and replace ECM (See page [IN-34](#)).