

<b>DTC</b>	<b>P0130</b>	<b>Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)</b>
------------	--------------	--

<b>DTC</b>	<b>P0150</b>	<b>Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 1)</b>
------------	--------------	--

## CIRCUIT DESCRIPTION

Refer to DTC P0125 on page [DI-42](#).

DTC No.	DTC Detection Condition	Trouble Area
P0130 P0150	Voltage output of heated oxygen sensor remains at 0.4 V or more, or 0.55 V or less, during idling after engine is warmed up (2 trip detection logic)	<ul style="list-style-type: none"> <li>• Open or short in heated oxygen sensor circuit</li> <li>• Heated oxygen sensor</li> <li>• Air induction system</li> <li>• Fuel pressure</li> <li>• Injector</li> <li>• ECM</li> </ul>

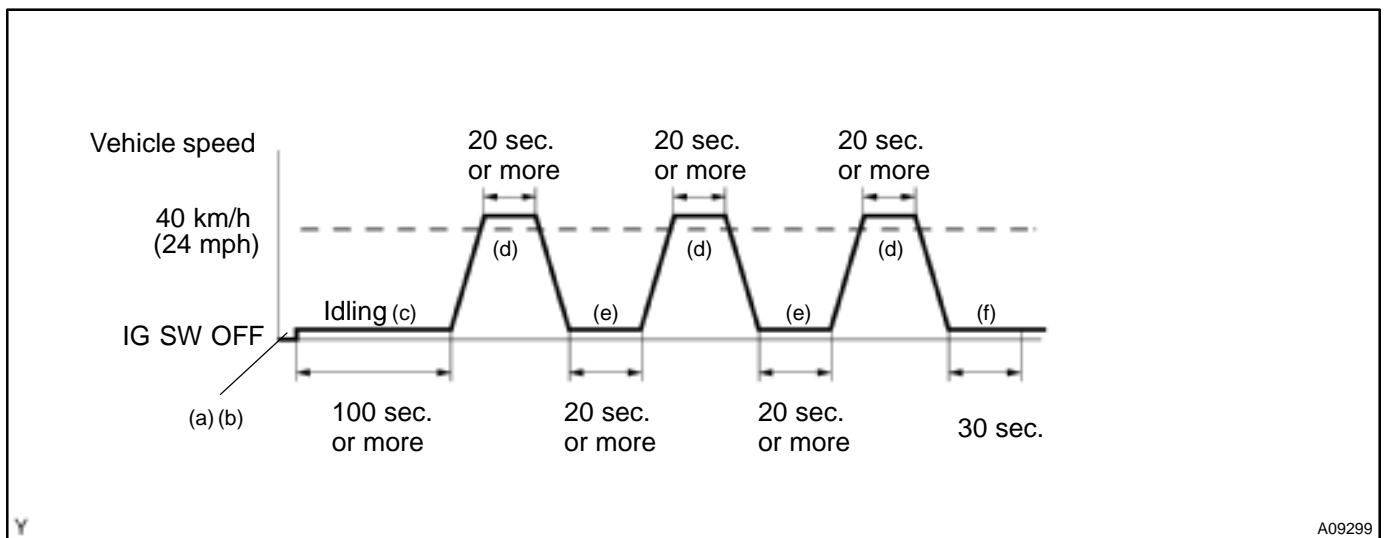
### HINT:

- Bank 1 refers to the bank that includes the cylinder No. 1.
- Bank 2 refers to the bank that excludes the 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 TOYOTA hand-held tester.

## WIRING DIAGRAM

Refer to DTC P0125 on page [DI-42](#).

## CONFIRMATION DRIVING PATTERN



- Connect the TOYOTA hand-held tester to the DLC3.
- Switch the TOYOTA hand-held tester from the normal mode to the check mode (See page [DI-3](#)).
- Start the engine and let the engine idle for 100 sec. or more.
- Drive the vehicle at 40 km/h (24 mph) or more for 20 sec. or more.
- Let the engine idle for 20 sec. or more.

2000 MR2 (RM760U)

(f) Let the engine idle for 30 sec.

**HINT:**

If a malfunction exists, the MIL will light up during step (f).

**NOTICE:**

If the conditions in this test are not strictly followed, detection of the malfunction will not be possible. If you do not have a TOYOTA hand-held tester, turn the ignition switch OFF after performing steps (c) to (f), then perform steps (c) to (f) again.

## INSPECTION PROCEDURE

**HINT:**

Read freeze frame data using TOYOTA hand-held tester or OBD II scan tool. Because freeze frame records the engine conditions when the malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

**1 Are there any other codes (besides DTC P0130 or P0150) being output?**

**YES**

Go to relevant DTC chart (See page [DI-14](#)).

**NO**

**2 Check output voltage of heated oxygen sensor during idling.**

### PREPARATION:

Keep the engine at 2,500 rpm for approx. 90 sec. to warm up the heated oxygen sensor.

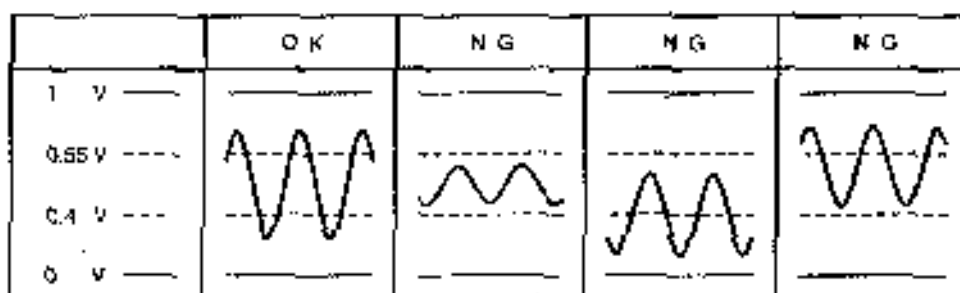
### CHECK:

Use the OBD II scan tool or TOYOTA 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**

Perform confirmation driving pattern  
(See page [DI-47](#)).

**NG**

- 3** Check for open and short in harness and connector between ECM and heated oxygen sensor (See page [IN-18](#)).

**NG**

Repair or replace harness or connector.

**OK**

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

**NG**

Repair or replace induction system.

**OK**

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

**NG**

Check and repair fuel pump, fuel pipe line and filter.

**OK**

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

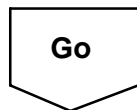
**NG**

Replace injector.

**OK**

Replace heated oxygen sensor.

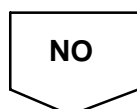
7	Perform confirmation driving pattern (See page <a href="#">DI-47</a> ).
---	---



8	Is there DTC P0130 or P0150 being output again?
---	---



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



Check and replace ECM (See page [IN-28](#)).