

<b>DTC</b>	<b>P0136</b>	<b>OXYGEN SENSOR CIRCUIT MALFUNCTION (BANK 1 SENSOR 2)</b>
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### CIRCUIT DESCRIPTION

Refer to DTC P0125 on page 05-44

DTC No.	DTC Detecting Condition	Trouble Area
P0136	Voltage output of heated oxygen sensor remains at 0.4 V or more, or 0.5 V or less when vehicle is driven at 40 km/h (25 mph) or more 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> </ul>

HINT:

- Bank 1 refers to the bank that includes cylinder No.1.
- Sensor 2 refers to the farther sensor from the engine body.

### WIRING DIAGRAM

Refer to DTC P0125 on page 05-44

### INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand – held tester or OBD II scan tool, as freeze frame data records the engine conditions when a 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.

<b>1</b>	<b>READ OUTPUT DTC(BESIDE P0136)</b>
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<b>YES</b>	<b>GO TO RELEVANT DTC CHART</b>
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**ON**

<b>2</b>	<b>CHECK HARNESS AND CONNECTOR(ECM-OXYGEN SENSOR)</b>
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<b>NG</b>	<b>REPAIR OR REPLACE HARNESS AND CONNECTOR</b>
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**OK**

<b>3</b>	<b>READ VALUE OF HAND-HELD TESTER(OUTPUT VOLTAGE OXYGEN SENSOR)</b>
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- (a) Connect the hand – held tester or OBD II scan tool to the DLC3.
- (b) Warm up the engine to normal operating temperature.
- (c) Read the voltage output of the heated oxygen sensor when engine is suddenly raced.

HINT:

Perform a quick racing to 4,000 rpm 3 times using the accelerator pedal.

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

<b>OK</b>	<b>CHECK THAT EACH CONNECTOR IS PROPERLY CONNECTED</b>
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**NG**

<b>REPLACE SENSOR, OXYGEN</b>
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2003 COROLLA MATRIX (RM940U)