DTC	P0136	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)
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# **CIRCUIT DESCRIPTION**

Refer to DTC P0125 on page DI-184.

DTC No.	DTC Detection Condition	Trouble Area
P0136	Voltage output of heated oxygen sensor remains at 0.45 V or less to 0.60 V or more when vehicle is driven at 50 km/h (31 mph) or more after engine is warmed up (2 trip detection logic)	<ul> <li>Open or short in heated oxygen sensor circuit</li> <li>Heated oxygen sensor</li> </ul>

HINT:

Sensor 2 refers to the sensor farther away from the engine body.

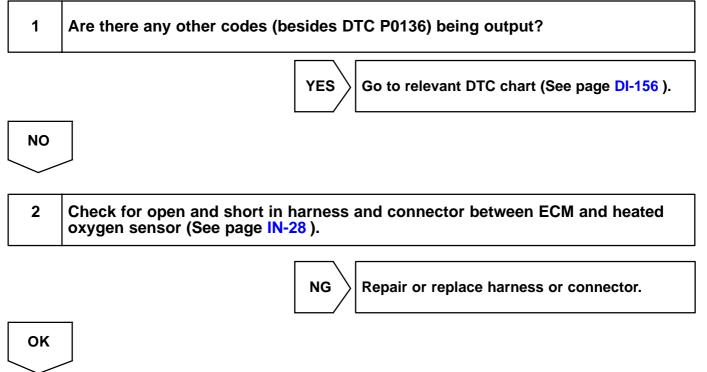
## WIRING DIAGRAM

Refer to DTC P0125 on page DI-184.

# **INSPECTION PROCEDURE**

HINT:

Read freeze frame data using TOYOTA 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.



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## 3 Check output voltage of heated oxygen sensor.

### PREPARATION:

(a) Connect the OBD II scan tool or TOYOTA hand-held tester to the DLC3.

(b) Warm up the engine to normal operating temperature.

### CHECK:

Read the voltage output of the heated oxygen sensor when the engine is suddenly raced. HINT:

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

#### <u>OK:</u>

#### Heated oxygen sensor output voltage:

Alternates from 0.45 V or less to 0.60 V or more.



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Replace heated oxygen sensor.