

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

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

DTC No.	DTC Detection Condition	Trouble Area
P0136	Voltage output of heated oxygen sensor remains at 0.40 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"> • Open or short in heated oxygen sensor circuit • Heated oxygen sensor

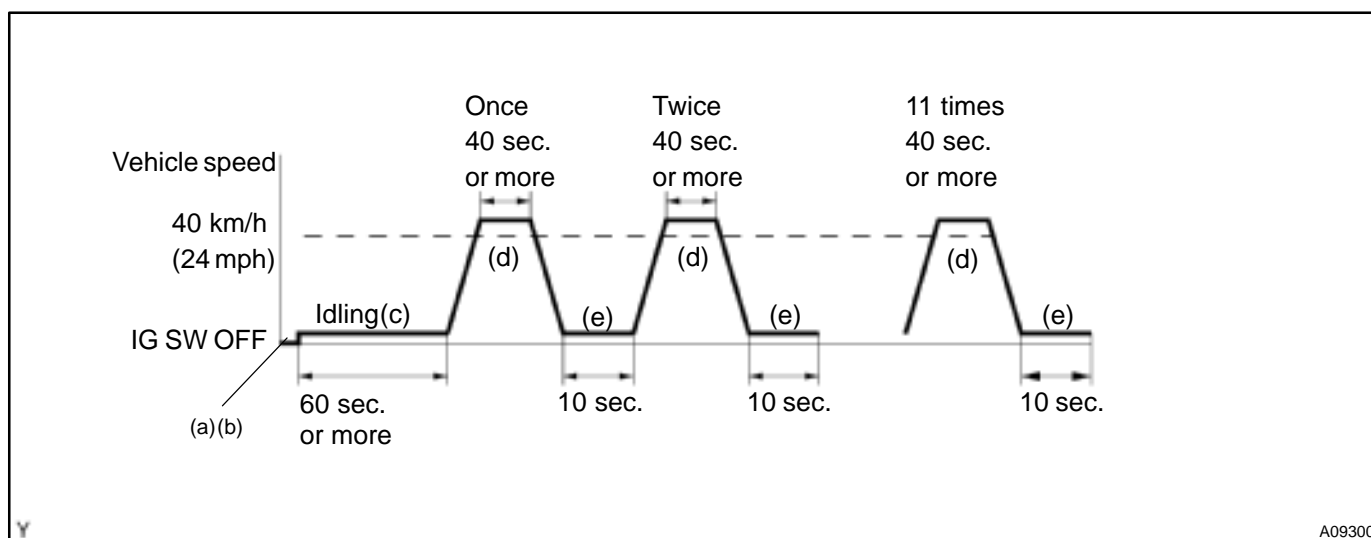
HINT:

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

WIRING DIAGRAM

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

CONFIRMATION DRIVING PATTERN



- Connect the hand-held tester to the DLC3.
- Switch the hand-held tester from the normal mode to the check (test) mode (See page [DI-3](#)).
- Start the engine and let the engine idle for 60 seconds or more.
- Drive the vehicle at 40 km/h (24 mph) or more for 40 seconds or more.
- Let the engine idle for 10 seconds or more.
- Preform steps (d) to (e) 9 times.

HINT:

If a malfunction exists, the MIL will be indicated on the multi information display 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 hand-held tester, turn the ignition switch OFF after performing steps from (c) to (f), then perform steps from (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 P0136) being output?
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YES

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

NO

2	Check for open and short in harness and connector between ECM and heated oxygen sensor (See page IN-28).
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Repair or replace harness or connector.

OK

3	Check output voltage of heated oxygen sensor.
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PREPARATION:

- (a) Connect the OBD II scan tool or TOYOTA hand-held tester to the DLC3.
- (b) Warm up the engine to normal temperature of the operating.

CHECK:

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

HINT:

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

OK:

Heated oxygen sensor output voltage: Alternates from 0.40 V or less to 0.5 V or more.

OK

Check that each connector is properly connected.

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Replace heated oxygen sensor.