

DTC	P0141	Oxygen Sensor Heater 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
P0141	When heater operates, heater current exceeds 2 A (2 trip detection logic)	<ul style="list-style-type: none"> • Open or short in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • ECM
	Heater current of 0.20 A or less when heater operates (2 trip detection logic)	

HINT:

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

WIRING DIAGRAM

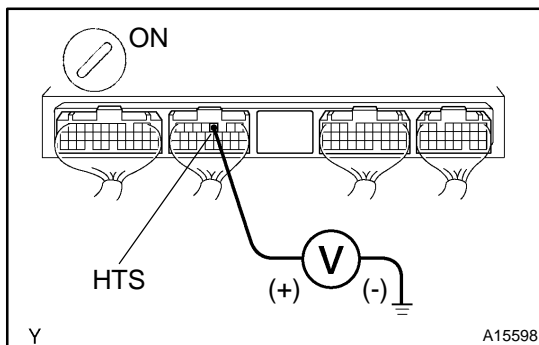
Refer to DTC P0125 on page [DI-42](#) .

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.

1	Check voltage between terminals HTS of ECM connector and body ground.
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PREPARATION:

- Remove the glove compartment (See page [SF-50](#)).
- Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals HTS or HT1, HT2 of the ECM connector and body ground.

HINT:

Connect terminal HT2 to bank 1 sensor 2.

OK:

Voltage: 9 - 14 V

OK

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

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2	Check resistance of heated oxygen sensor heater (See page SF-48).
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Replace heated oxygen sensor.

The icon is a white shield with a black border and a black downward-pointing arrow at the bottom. The letters "OK" are centered in black text within the shield.

Check and repair harness or connector between EFI main relay (Marking: EFI) and heated oxygen sensor, and heated oxygen sensor and ECM (See page [IN-28](#)).