

DTC	P0135	Heated Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)
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DTC	P0141	Heated Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
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CIRCUIT DESCRIPTION

Refer to DTC P0125 (Insufficient Coolant Temp. for Closed Loop Fuel Control) on page [DI-40](#) .

DTC No.	DTC Detecting Condition	Trouble Area
P0135	When the heater operates, heater current exceeds 2 A (2 trip detection logic)	• Open or short in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • ECM
P0141	Heater current of 0.25 A or less when the heater operates (2 trip detection logic)	

HINT:

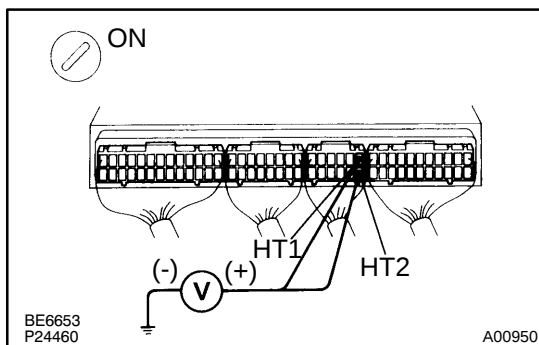
- Sensor 1 refers to the sensor closer to the engine body.
- Sensor 2 refers to the sensor farther away from the engine body.

WIRING DIAGRAM

Refer to DTC P0125 (Insufficient Coolant Temp. for Closed Loop Fuel Control) on page [DI-40](#) for WIRING DIAGRAM.

INSPECTION PROCEDURE

1	Check voltage between terminals HT1, HT2 of ECM connector and body ground.
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PREPARATION:

- Remove instrument panel speaker No.1 panel (See page [SF-65](#)).
- Turn ignition switch ON.

CHECK:

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

HINT:

- Connect terminal HT1 to bank 1 sensor 1.
- Connect terminal HT2 to bank 1 sensor 2.

OK:

Voltage: 9 - 14 V

OK

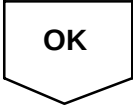
Check and replace ECM (See page [IN-28](#)).

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2	Check resistance of heated oxygen sensor heater (See page SF-64).
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Replace heated oxygen sensor.

OK

Check and repair harness or connector between EFI main relay (Marking: EFI) and heated oxygen sensor (bank 1 sensor 1, 2) and ECM (See page [IN-28](#)).