

DTC	P1135	A/F Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)
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DTC	P1155	A/F Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)
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CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
P1135	When heater operates, heater current exceeds 8 A (2 trip detection logic)	• Open or in heater circuit of A/F sensors (bank 1, 2 sensor 1) • A/F sensors (bank 1, 2 sensor 1) heater • ECM
P1155	Heater current of 0.25 A or less when heater operates (2 trip detection logic)	

WIRING DIAGRAM

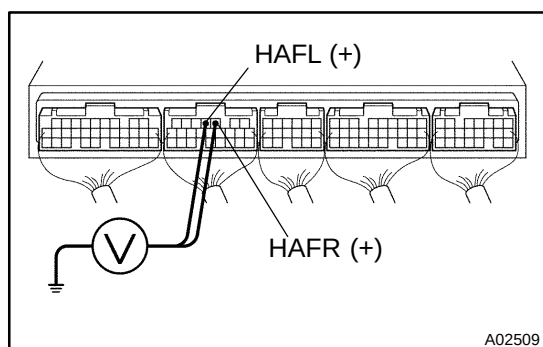
Refer to DTC P0125 on page [DI-42](#) .

INSPECTION PROCEDURE

HINT:

Read freeze frame data using TOYOTA hand-held tester or OBD II scan tool. 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 warmed up or not, the air-fuel ratio lean or rich, etc. at the time of the malfunction.

1	Check voltage between terminal HAFL, HAFL of ECM connector and body ground.
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PREPARATION:

- Remove glove compartment (See page [SF-84](#)).
- Turn the ignition switch ON.

CHECK:

Measure voltage between terminals HAFL, HAFL of the ECM connector and body ground.

OK:

Voltage: 9 - 14 V

OK

Check and replace ECM (See page [IN-31](#)).

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2	Check resistance of A/F sensor heaters (bank 1, 2 sensor 1) (See page SF-81).
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Replace A/F sensors (bank 1, 2 sensor 1).

OK

Check and repair harness or connector between EFI main relay (Marking: EFI) and A/F sensors (bank 1, 2 sensor 1) and ECM (See page [IN-31](#)).