DTC	P1135	A/F Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)

CIRCUIT DESCRIPTION

Refer to DTC P0125 on page DI–52.

DTC No.	DTC Detection Condition	Trouble Area
P1135	When heater operates, heater current exceeds 8 A (1 trip detection logic)	• Open or short in heater circuit of A/F sensor • A/F sensor heater • Engine ECU
	When heater operates, heater current of 3 A or less (1 trip detection logic)	

WIRING DIAGRAM

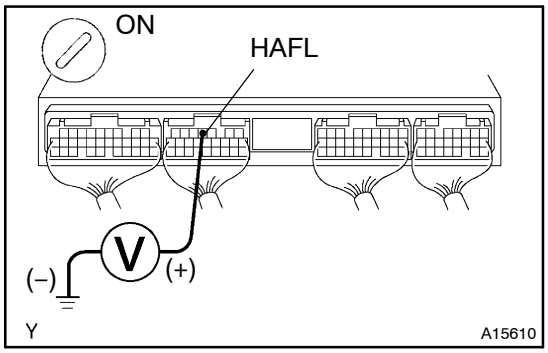
Refer to DTC P0125 on page DI–52.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand–held tester. Because 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 terminal HAFL of engine ECU connector and body ground.**



PREPARATION:

(a) Remove the glove compartment.

(b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals HAFL of the engine ECU connector and the body ground.

OK:

Voltage: 9 – 14 V

OK	**Check and replace engine ECU (See page IN–19).**

NG

2	Check resistance of A/F sensor heater (See page FI–2).

NG → Replace A/F sensor.

OK

Check and repair harness or connector between EFI main relay (Marking: EFI • ALT–S) and A/F sensor, and A/F sensor and engine ECU (See page IN–19).