DI1K8–05

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

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

CIRCUIT DESCRIPTION

Refer to DTC P0125 on page DI–43.

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

WIRING DIAGRAM

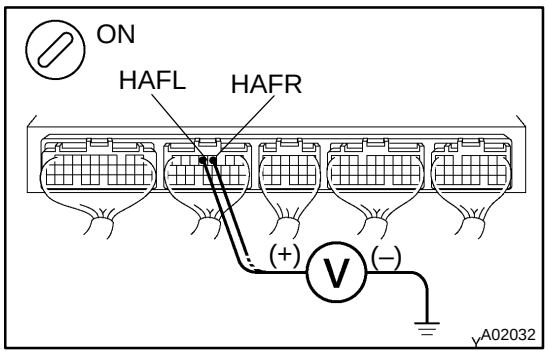
Refer to DTC P0125 on page DI–43.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using LEXUS 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	**Check voltage between terminals HAFL, HAFR of ECM connector and body ground.**



PREPARATION:

(a) Remove the glove compartment (See page SF–79).

(b) Turn the ignition switch ON.

CHECK:

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

OK:

Voltage: 9 – 14 V

OK	**Check and replace ECM (See page IN–34).**

NG

2	**Check resistance of A/F sensor heater (See page SF–75).**

NG → **Replace A/F sensor.**

OK

3	**Check A/F sensor heater relay (Marking: A/F HEATER).**

NG → **Replace A/F sensor heater relay.**

OK

Check and repair harness or connector between A/F sensor heater relay and A/F sensor, and A/F sensor and ECM (See page IN–34).