DTC		Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)
-----	--	--

DTC	P0141/27	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
-----	----------	--

DTC		Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)
-----	--	--

CIRCUIT DESCRIPTION

Refer to DTC P0125/91 on page DI-48.

DTC No.	DTC Detecting Condition	Trouble Area
P0135/21 P0141/21 P0155/28	When the heater operates, heater current exceeds 2 A (2 trip detection logic) Heater current of 0.2 A or less when the heater operates (2 trip detection logic)	 Open or short in heater circuit of oxygen sensor Oxygen sensor heater Engine ECU

HINT:

- Bank 1 refers to bank that includes cylinder No.1.
- Bank 2 refers to bank that does not include cylinder No.1.
- Sensor 1 refers to the sensor closer to the engine body.
- Sensor 2 refers to the sensor farther away from the engine body.

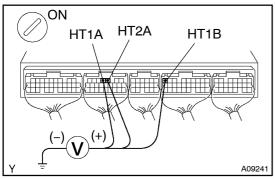
WIRING DIAGRAM

Refer to DTC P0125/91 on page DI-48.

INSPECTION PROCEDURE

Read freeze frame data using hand-held tester. 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 HT1A, HT2A, HT1B, of engine ECU connectors and body ground.



PREPARATION:

- (a) Remove engine ECU hood.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals HT1A, HT2A, HT1B, of the engine ECU connectors and body ground. HINT:

- Connect terminal HT1B to bank 2 sensor 1.
- Connect terminal HT1A to bank 1 sensor 1.

LEXUS IS200 (RM684E)

DI63W-01

DIAGNOSTICS - ENGINE

 Connect terminal HT2A to bank 1 sensor 2.
 OK: Voltage: 9 – 14 V

