DI2S8–19

DTC	P0135/21	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)

CIRCUIT DESCRIPTION

Refer to DTC P0130/21 on page DI–48.

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

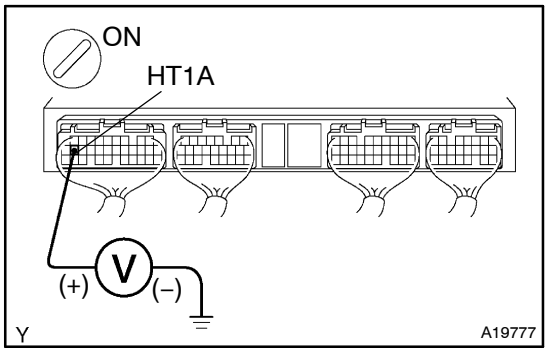
WIRING DIAGRAM

Refer to DTC P0130/21 on page DI–48.

INSPECTION PROCEDURE

HINT:
Read the freeze frame data using hand–held tester, which is recorded when a malfunction is detected on the engine. When troubleshooting, it is useful to determine 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 terminals HT1A of engine (and ECT) ECU connector and body ground.**



PREPARATION:
(a) Remove the glove compartment door.
(b) Turn the ignition switch ON.

CHECK:
Measure the voltage between terminals HT1A of the engine (and ECT) ECU connector and the body ground.
HINT:

OK:
Voltage: 9 – 14 V

OK → **Check and replace engine (and ECT) ECU (See page IN–20).**

NG

2	**Check resistance of oxygen sensor heater (See page FI–12).**

NG → **Replace oxygen sensor.**

OK

Check and repair harness or connector between main relay and oxygen sensor and engine (and ECT) ECU (See page IN–20).