DI2S8-0

DTC□	P0135/21 Oxygen Sensor Heater Circuit
	Malfunction (Bank 1 Sensor 1)
DTC□	P0141/21 Oxygen Sensor Heater Circuit
D 10 ₀	Malfunction (Bank 1 Sensor 2)
DTC□	P0155/28 Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)
DTC□	P0161/28 Oxygen Sensor Heater Circuit
	Malfunction (Bank 2 Sensor 2)

CIRCUIT DESCRIPTION

 $Refer[\cline{thm}] Open [\cline{thm}] Sensor[\cline{thm}] Circuit[\cline{thm}] Malfunction[\cline{thm}] Open [\cline{thm}] Alfunction[\cline{thm}] Open [\cline{thm}] Alfunction[\cline{thm}] Open [\cline{thm}] Open [\clin$

DTC[No.	DTC[Detecting[Condition	Trouble[A rea
P0135/21 P0141/21	When the heater operates, heater current exceeds 2. A (2 trip detection logic)	Open@r[short[]n[heater@ircuit[of[heated@xygen[sensor Heated@xygen[sensor[heater Engine[ECU
P0155/28 P0161/28	Heater@urrent@f@.2A@r@ess@when@he@heater@perates (2@rip@detection@ogic)	

HINT:

- •□ Bank 1 [refers [to [bank [that [includes [cylinder [No.1.
- •□ Bank[2[]efers[]o[bank[]hat[does[]hot[]nclude[cylinder[]No.1.
- •□ Sensor <u>Trefers to the sensor closer to the lengine body.</u>
- Sensor 2 refers to the sensor farther away from the engine body.

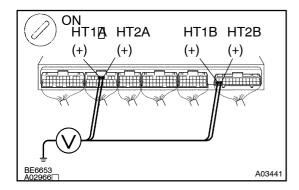
WIRING DIAGRAM

Refer[] o[Dxygen[] ensor[Circuit[] Malfunction[] on[] page[] DI-51[] or[] the[] WIRING[] DIAGRAM.

INSPECTION PROCEDURE

Read[freeze[frame[data[]]sing[hand-held[tester.]Because[freeze[frame[]]ecords[fhe@ngine@onditions]when the []nalfunction[]s[detected, []when []roubleshooting []t[]s[]]seful []or []determining []whether [] he [] vehicle []was [] unning []y [] topped, [] he [] ngine []warmed [] por [] tot, [] total []

1 Check[voltage[between[terminals[HT1A,[HT2A,[HT1B,[HT2B]bf]engine[ECU]connector[and[body[ground.]



PREPARATION:

(a) \square Remove the engine from engine \square CU thood and cover.

(b) Turn the ignition witch ON.

CHECK:

Measure voltage between terminals HT1A, HT2A, HT1B, HT2B of the regine ECU connector and body ground.

- •□ Connect erminal HT1B obank 2sensor 1.
- •□ Connect terminal tht 2B to bank 2 sensor 2.
- •□ Connect derminal dHT1A do bank 1 sensor 1.
- •□ Connect erminal HT2A to bank 1 sensor 2.

HINT:

OK:

Voltage: 9 → 14 V



 $\label{lem:check_and_replace} $$ Check_and_replace_engine_ECU_see_page_{IN-29}.$

NG

2 Check resistance of oxygen sensor heater (See page FI-63).

NG□

Replace oxygen sensor.

OK

Check@and@epair@harness@r@onnector between@main@elay@and@xygen sensor@and@ngine@ECU@See@page@N-29).