DIAUJ-01

DTC	P07 10/38	Transmission Fluid Temperature Sensor "A" Circuit
DTC	P07 12/38	Transmission Fluid Temperature Sensor "A" Circuit Low Input

DTC	P07 13/38 Transmission Fluid Temperature Sensor "A"
	Circuit High Input

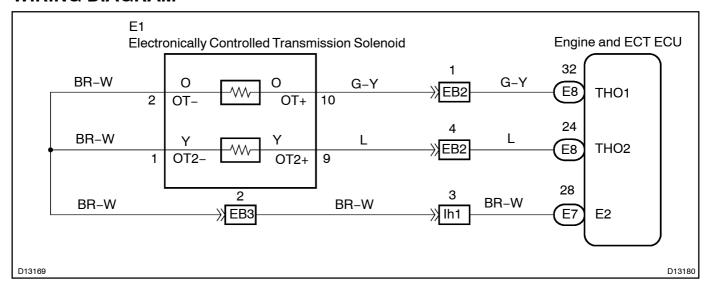
DTC	•	Transmission Fluid Temperature Sensor "B"
		Circuit High Input

CIRCUIT DESCRIPTION

The ATF temperature sensor converts fluid temperature into a resistance value which is input into the Engine and ECT ECU.

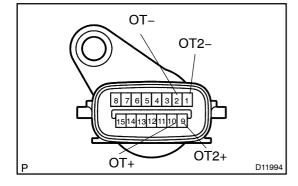
DTC No.	DTC Detecting Condition	Trouble Area	
P0710/38	(a) and (b) is detected momentary within 0.5 sec. when neither P0712 or P07 13 is not detected ($$ 1-trip detection logic) (a) ATF temperature sensor resistance is less than 79 $$ Ω . (b) ATF temperature sensor resistance is more than $$ 156 k Ω . HINT: Wthin 0.5 sec. the malfunction switches from (a) to (b) or from (b) to (a)	Open or short in ATF temperature sensor No. 1 circuit ATF temperature sensor No. 1 Engine and ECT ECU	
P0712/38	$ATF temperature sensor resistance is less than 79 \qquad \Omega. \ for 0.5 \\ sec. \ or more (\ 1-trip \ detection \ logic)$		
P0713/38	DTC is detected for 0.5 sec. or more (1 -trip detection logic) ATF temperature sensor resistance is more than $156 \mathrm{k} \Omega$. after started engine for $15 \mathrm{minutes}$ or more	ar	
P2743/38	DTC is detected for 0.5 sec. or more (1 -trip detection logic) ATF temperature sensor resistance is more than $156 \mathrm{k} \Omega$. after started engine for $15 \mathrm{minutes}$ or more	Open in ATF temperature sensor No. 2 circuit ATF temperature sensor No. 2 Engine and ECT ECU	

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check transmission wire.



PREPARATION:

Disconnect the transmission wire connector from the transmission.

CHECK:

- (a) Measure the resistance between terminals OT+ and OT -.
- (b) Measure the resistance between terminals OT2+ and OT2-.

OK:

79 Ω – 156 k Ω

CHECK:

- (a) Measure resistance between terminals OT+ and OT of the transmission wire connector and body ground.
- (b) Measure resistance between terminals OT2+ and OT2 of the transmission wire connector and body ground.

OK:

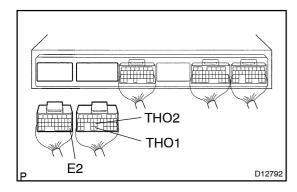
Resistance: 1 M Ω or higher

NG

Replace the transmission wire (ATF temperature sensor).

ОК

2 Measure resistance between terminal THO1, THO2 and E2 of Engine and ECT ECU connector.



PREPARATION:

- (a) Connect the transmission wire connector.
- (b) Disconnect the connector of the Engine and ECT ECU.

CHECK:

- (a) Measure the resistance between terminals THO1 and E2.
- (b) Measure the resistance between terminals THO2 and F2

OK:

79 Ω – 156 k Ω

CHECK:

Measure resistance between terminals THO1, THO2 and E2 of the Engine and ECT ECU connector and body ground.

OK:

Resistance: 1 M Ω or higher

NG

Repair or replace the harness or connector (See page IN-38).



Check and replace the Engine and ECT ECU (See page IN-38).