DIAUJ-01

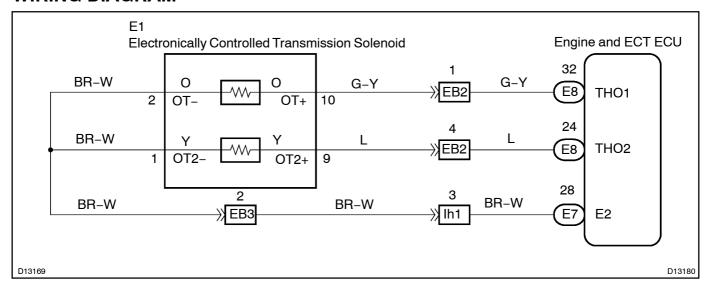
DTC	P0710/38	Transmission Fluid Temperature Sensor "A" Circuit
DTC	P0712/38	Transmission Fluid Temperature Sensor "A" Circuit Low Input
DTC	P0713/38	Transmission Fluid Temperature Sensor "A" Circuit High Input
DTC	P2743/38	Transmission Fluid Temperature Sensor "B" Circuit High Input

CIRCUIT DESCRIPTION

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

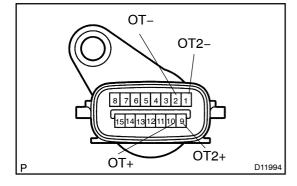
DTC No.	DTC Detecting Condition	Trouble Area
P0710/38	(a) and (b) is detected momentary within 0.5 sec. when neither P0712 or P0713 is not detected (1–trip detection logic) (a) ATF temperature sensor resistance is less than 79 Ω . (b) ATF temperature sensor resistance is more than 156 k Ω . HINT: Wthin 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 Ω . 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 k Ω . after started engine for 15 minutes or more	
P2743/38	DTC is detected for 0.5 sec. or more (1–trip detection logic) ATF temperature sensor resistance is more than 156 k Ω . after started engine for 15 minutes or more	Open in ATF temperature sensor No. 2 circuit ATF temperature sensor No. 2 Engine and ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

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

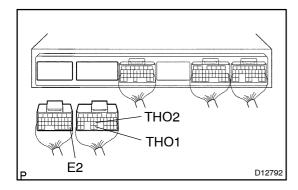
ОК

1

NG Replace the transmission wire (ATF temperature sensor).

2[]

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



PREPARATION:

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

CHECK:

- (a) Measure[ther]esistance[between[terminals]] HO1[and] 2.
- (b) Measure in eresiste ince between ere in mals ITHO and E2.

OK:

79 Ω – 156 $\kappa\Omega$

CHECK:

OK:

Resistance: 1[Mℚ[or[higher



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

OK

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