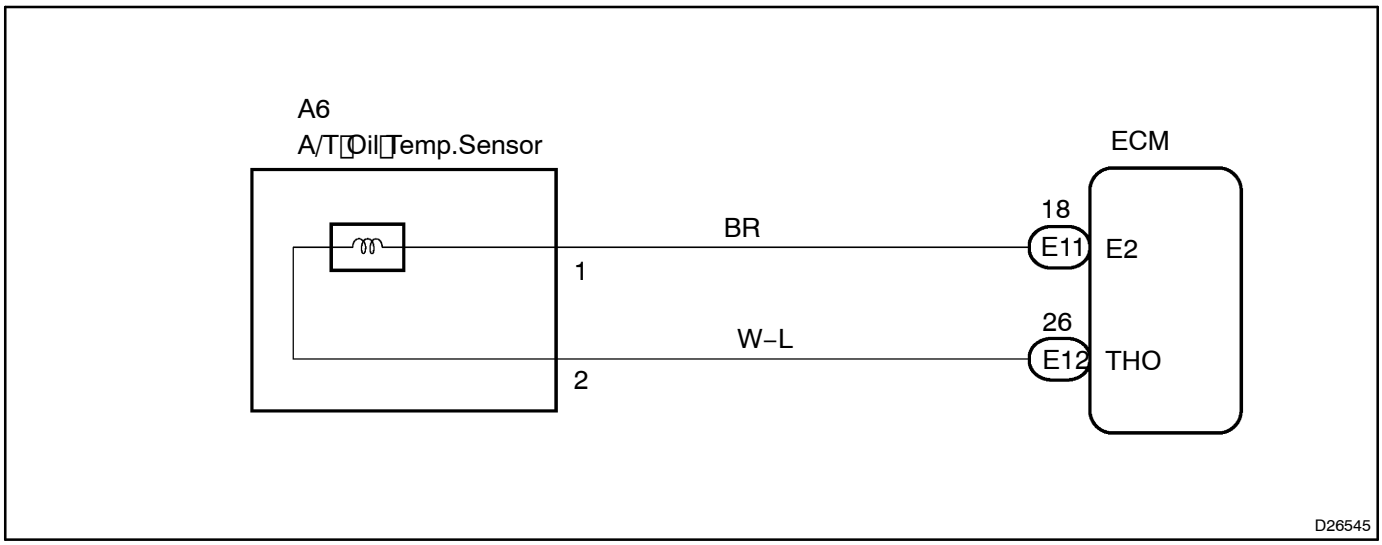
DTC	P0710/38	TRANSMISSION FLUID TEMPERATURE SENSOR "A" CIRCUIT

CIRCUIT DESCRIPTION

The ATF temperature sensor converts the fluid temperature into a resistance value which is input into the ECM.

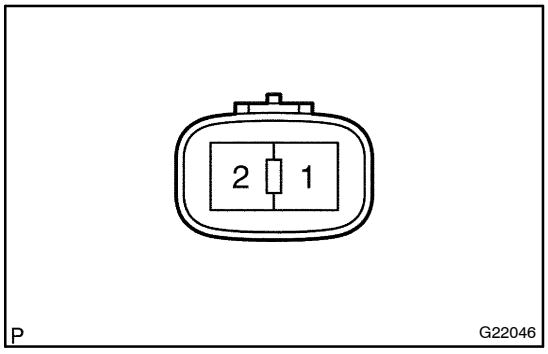
DTC No.	DTC Detection Condition	Trouble Area
P0710/38	Either (a) or (b) is detected for 0.5 sec. or more: (1 trip detection logic) (g) Temp. sensor resistance is less than 79 Ω (h) After engine has been operating for 15 min. or more, resistance at temp. sensor is more than 156 kΩ	• Open or short in ATF temp. sensor • ATF temp. sensor • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT TEMPERATURE SENSOR(ATF TEMPERATURE SENSOR)



(a) Disconnect the ATF temperature sensor connector from the transmission.

(b) Measure the resistance between the sensor connector terminals.

OK:

Resistance: 79 Ω – 156 KΩ

(c) Measure resistance between terminals THO and E2 of the ECM connector and body ground.

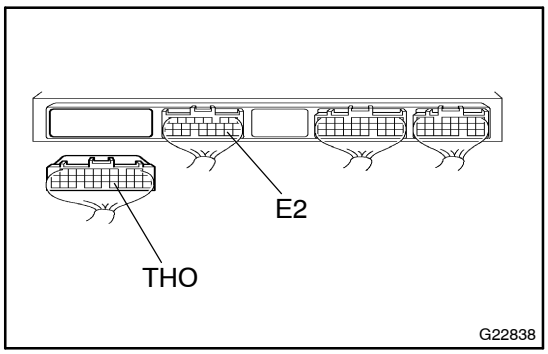
OK:

Resistance: 1MΩ or higher

NG → **REPLACE TEMPERATURE SENSOR(See page 40-48)**

OK

2	CHECK HARNESS AND CONNECTOR (ATF TEMPERATURE – ECM)



(a) Connect the ATF temperature sensor connector to the transmission.
(b) Disconnect the ECM connector.
(c) Measure resistance between terminals THO and E2.
OK:
Resistance: 79 Ω – 156 kΩ
(d) Measure resistance between terminals THO and E2 of the ECM connector and body ground.
OK:
Resistance: 1 MΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (See page 01–36)**

OK

CHECK AND REPLACE ECM (See page 01–36)