

DTC	P0710/38	TRANSMISSION FLUID TEMPERATURE SENSOR MALFUNCTION
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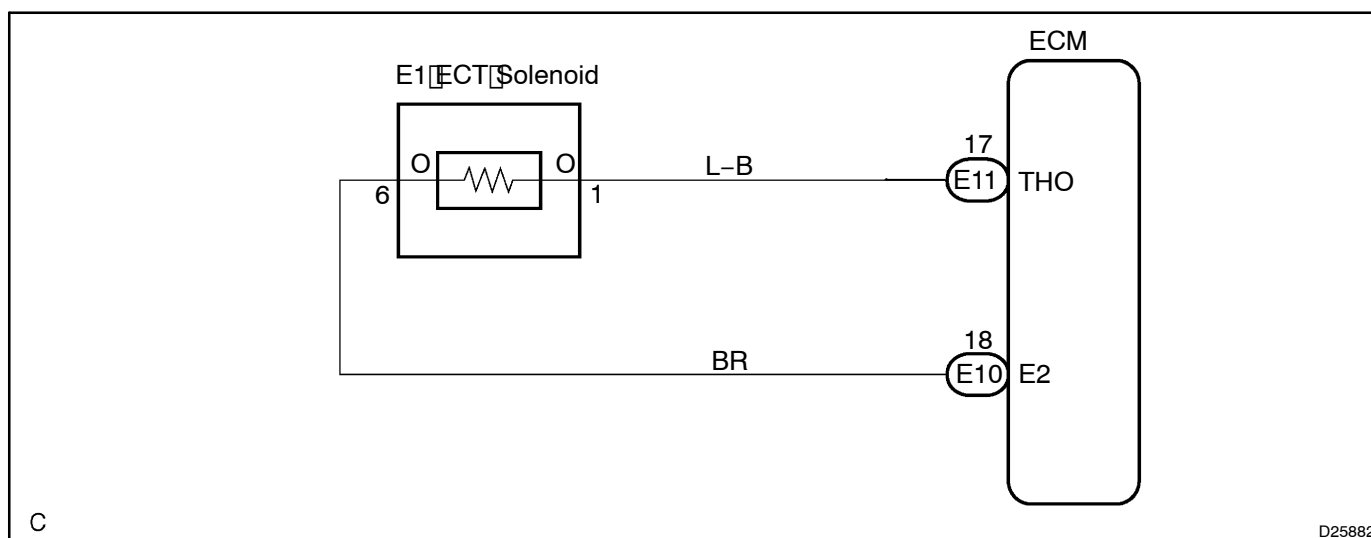
DTC	P0711/38	TRANSMISSION FLUID TEMPERATURE SENSOR RANGE/PERFORMANCE PROBLEM
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CIRCUIT DESCRIPTION

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 P0711/38	Either (a) or (b) is detected for 0.5 sec. or more: (1) Trip detection logic (e) Temp. sensor resistance is less than 79 Ω (f) After engine has been operating for 15 min. or more, resistance at temp. sensor is more than 156 kΩ	<ul style="list-style-type: none"> • Open or short in ATF temp. sensor • Transmission wire (ATF temperature sensor) • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF HAND-HELD TESTER (THO)
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NOTICE:

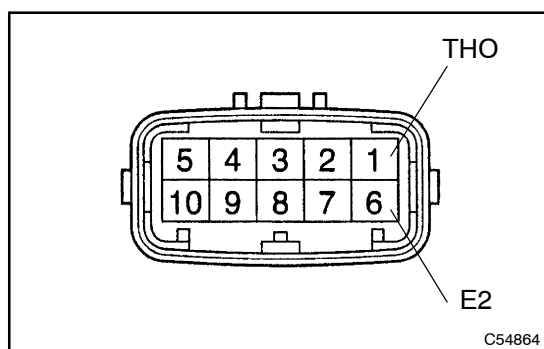
The values given below for "Normal Condition" are representative values, so a vehicle may still be normal even if its value differs from those listed here. Do not depend solely on the "Normal Condition" here when deciding whether or not the part is faulty.

Hand-held tester display	Measurement item	Normal Condition
AT FLUID TEMP	ATF Temperature Sensor Value	After stall test: 80 °C (176 °F)

OK

CHECK AND REPLACE ECM (See page 01-30)

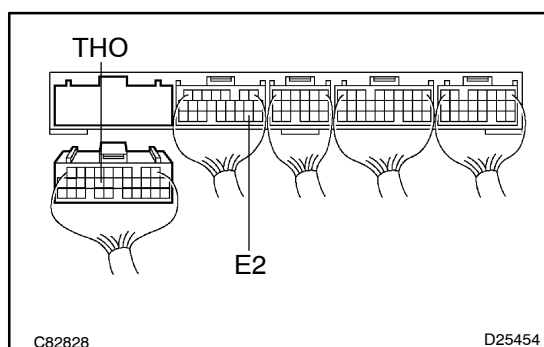
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2 INSPECT TRANSMISSION WIRE (ATF TEMPERATURE SENSOR)

- (a) Disconnect the transmission wire connector from the transaxle.
- (b) Measure the resistance between terminals THO and E2.

OK:

Temperature: °C (°F)	Resistance: kΩ
-40	156
-30	44
10	6.445
25	3.5
110	0.247
150	0.09

NG**REPAIR OR REPLACE TRANSMISSION WIRE**
(See page 01-30)**OK****3 CHECK HARNESS AND CONNECTOR (TRANSMISSION WIRE – ECM)**

- (a) Connect the transmission wire connector from the transaxle.
- (b) Disconnect the ECM connector.
- (c) Measure resistance between terminals THO and E2.

OK:

Temperature: °C (°F)	Resistance: kΩ
-40	156
-30	44
10	6.445
25	3.5
110	0.247
150	0.09

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR** (See page 01-30)**OK****CHECK AND REPLACE ECM** (See page 01-30)