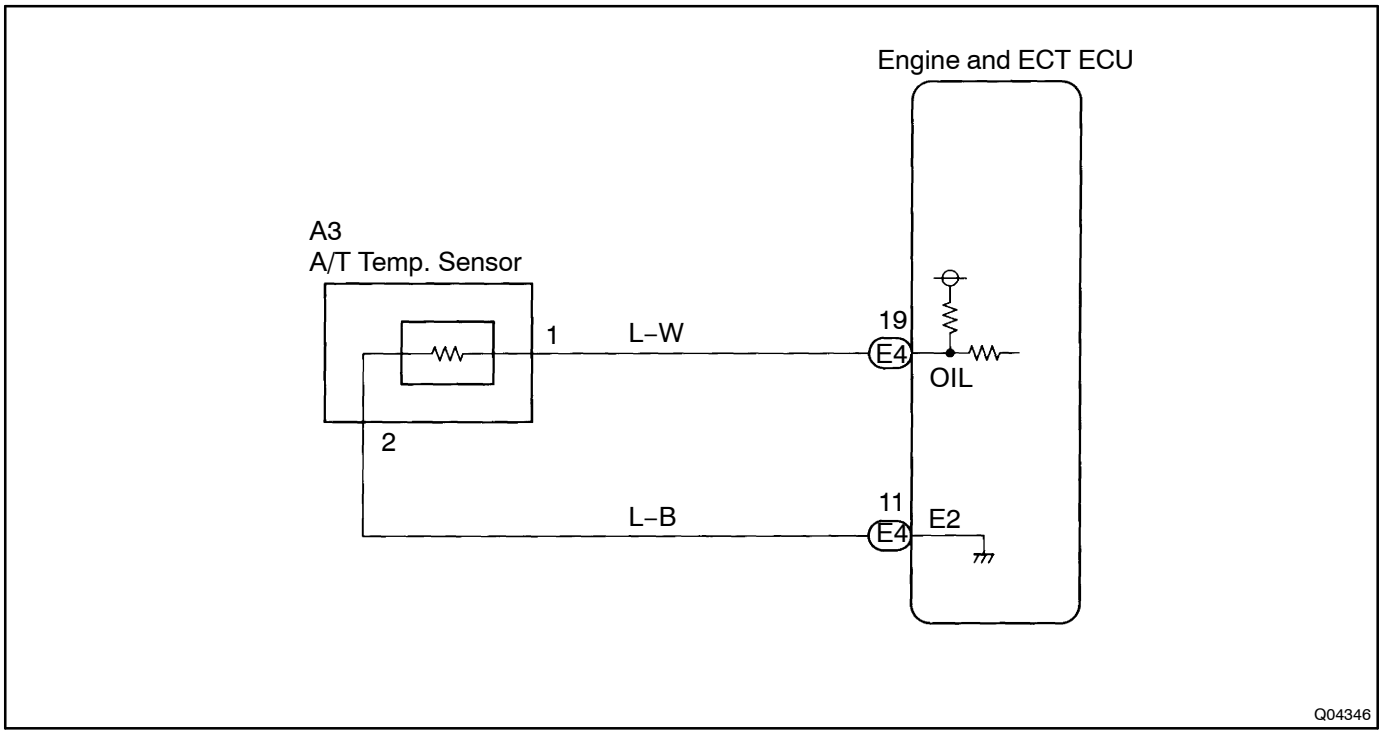
DTC	P0710/38	Transmission Fluid Temperature Sensor Malfunction (ATF Temperature Sensor)

CIRCUIT DESCRIPTION

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

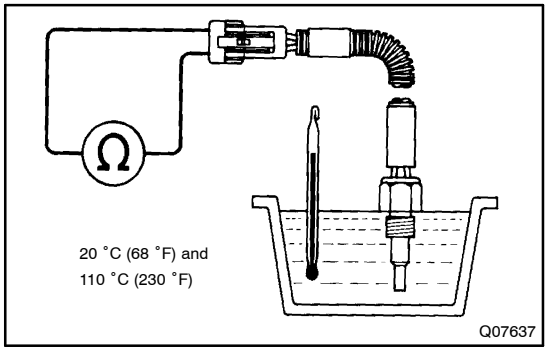
DTC No.	DTC Detecting Condition	Trouble Area
P0710/38	Either (a) or (b) is detected for 0.5 sec. or more. (1–trip detection logic) (a) Temp. sensor resistance is less than 79 Ω (b) After the engine has been operating for 15 minutes or more, the resistance at the temp. sensor is more than 156 kΩ	• Open or short in ATF temp. sensor • ATF temp. sensor • Engine & ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check ATF Temperature Sensor.**



PREPARATION:
Remove the ATF temperature sensor.
CHECK:
Measure resistance between terminals of ATF temperature sensor at 20 °C (68 °F) and 110 °C (230 °F).
OK:
Resistance (Approx.):
20 °C (68 °F): 4.29 kΩ
110 °C (230 °F): 690 Ω

NG → **Replace the ATF temperature sensor**

OK

2	**Check harness and connector between ATF temperature sensor and Engine & ECT ECU (See page IN–26).**

NG → **Repair or replace the harness or connector.**

OK

Check and replace the Engine & ECT ECU (See page IN–26).