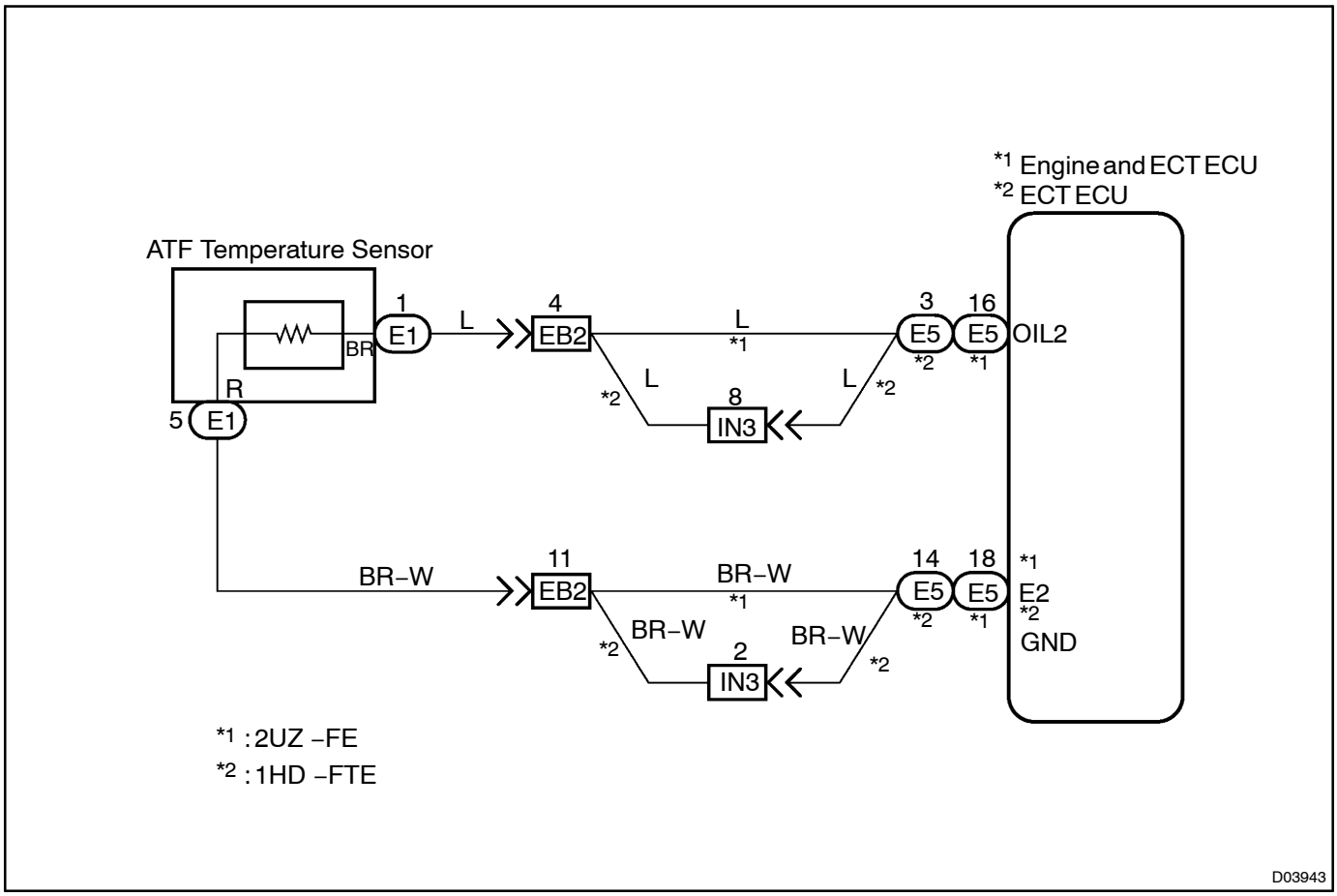
DTC	P07 10/38	Transmission Fluid Temperature Sensor Malfunction (ATF Temperature Sensor)

CIRCUIT DESCRIPTION

The ATF temperature sensor converts fluid temperature into a resistance value which is input into the Engine and ECT ECU (2UZ –FE, 1FZ –FE) or ECT ECU (1HZ, 1HD –T, 1HD –FTE).

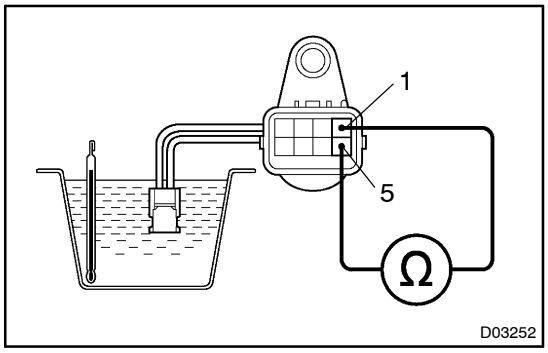
DTC No.	DTC Detecting Condition	Trouble Area
P0710/38	Either (a) or (b) is detected for 0.5 sec. or more. (2–trip detection logic) (a) Temperature sensor resistance is less than 79 Ω (b) After the engine has been operating for 15 minutes or more, the resistance at the temp. sensor is more than 156 kΩ	• Open or short in ATF temperature sensor • ATF temperature sensor • Engine and ECT ECU (2UZ –FE, 1FZ –FE) • ECT ECU (1HZ, 1HD –T, 1HD –FTE)

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check ATF temperature sensor.**



PREPARATION:
Remove the ATF temperature sensor (See page AT–8).
CHECK:
Measure resistance between terminals 1 and 5 of solenoid connector at 10 °C (50 °F) and 110 °C (230 °F).
OK:

Resistance (Approx.):
10 °C (50 °F): 6.5 kΩ
110 °C (230 °F): 200 – 300 Ω

NG → **Replace the ATF temperature sensor.**

OK

2	**Check harness and connector between ATF temperature sensor and Engine and ECT ECU or ECT ECU (See page IN–35).**

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

OK

Check and replace the Engine and ECT ECU or ECT ECU (See page IN–35).