

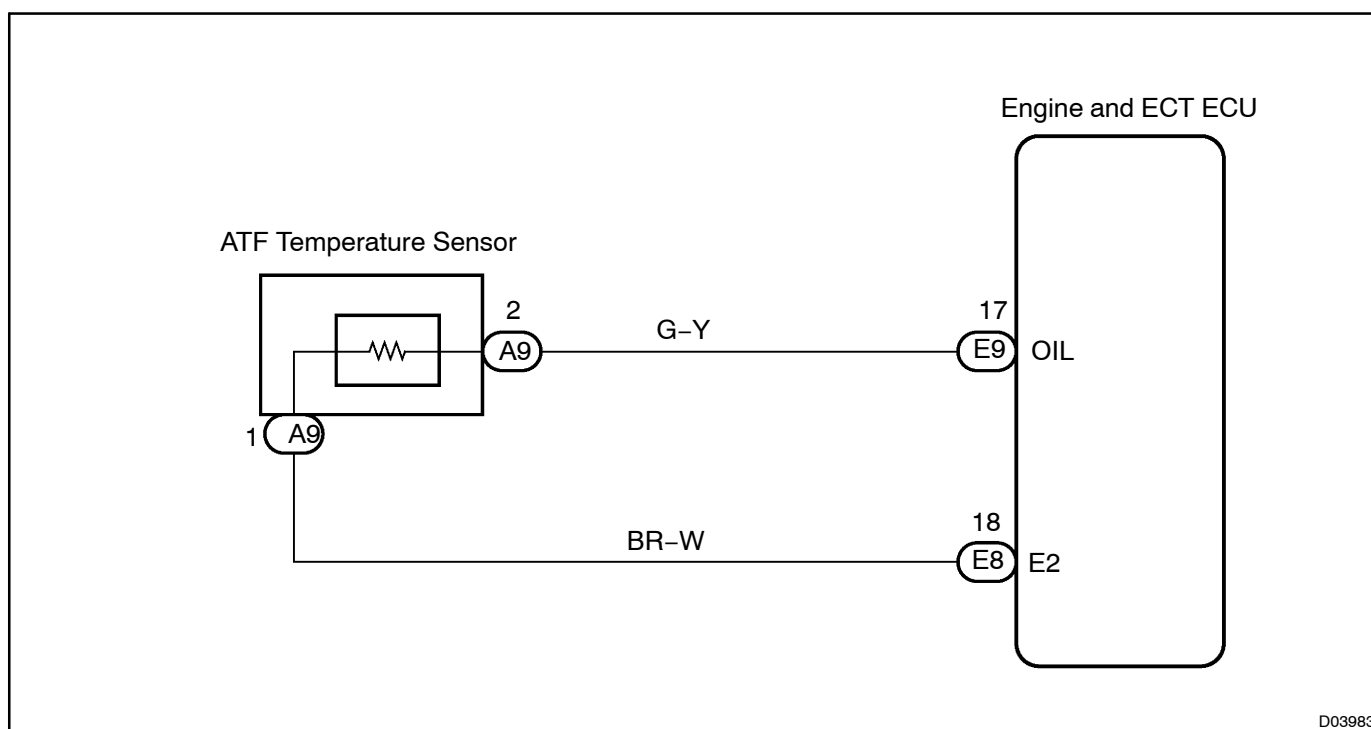
DTC	P0710/38	Transmission Fluid Temperature Sensor Malfunction (ATF Temperature Sensor)
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CIRCUIT DESCRIPTION

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

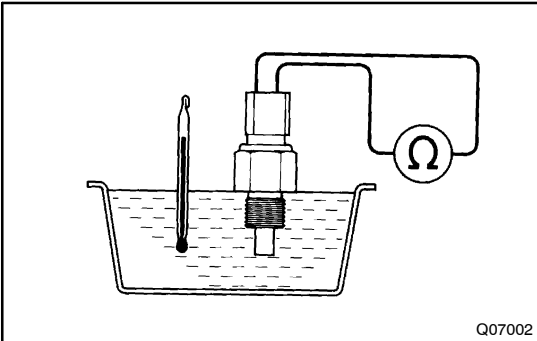
DTC No.	DTC Detecting Condition	Trouble Area
P0710/38	Either (a) or (b) is detected for 0.5 sec. or more. (2-trip detection logic) (a) Temperature sensor resistance is less than 79 Ω (b) After the engine has been operating for 15 minutes or more, the resistance at the temp. sensor is more than 156 kΩ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

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check ATF temperature sensor.

**PREPARATION:**

- (a) Remove the ATF temperature sensor connector.
- (b) Remove the ATF temperature sensor
([See page AT-8](#)).

CHECK:

Measure resistance between terminals of ATF temperature sensor at 20 °C (68 °F) and 120 °C (248 °F).

OK:

Resistance (Approx.):

20 °C (68 °F): 12.1 k Ω

120 °C (248 °F): 616 Ω

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Replace the ATF temperature sensor.

OK

2 Check harness and connector between ATF temperature sensor and Engine and ECT ECU ([See page IN-35](#)).

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Repair or replace the harness or connector.

OK

Check and replace the Engine and ECT ECU
([See page IN-35](#)).