

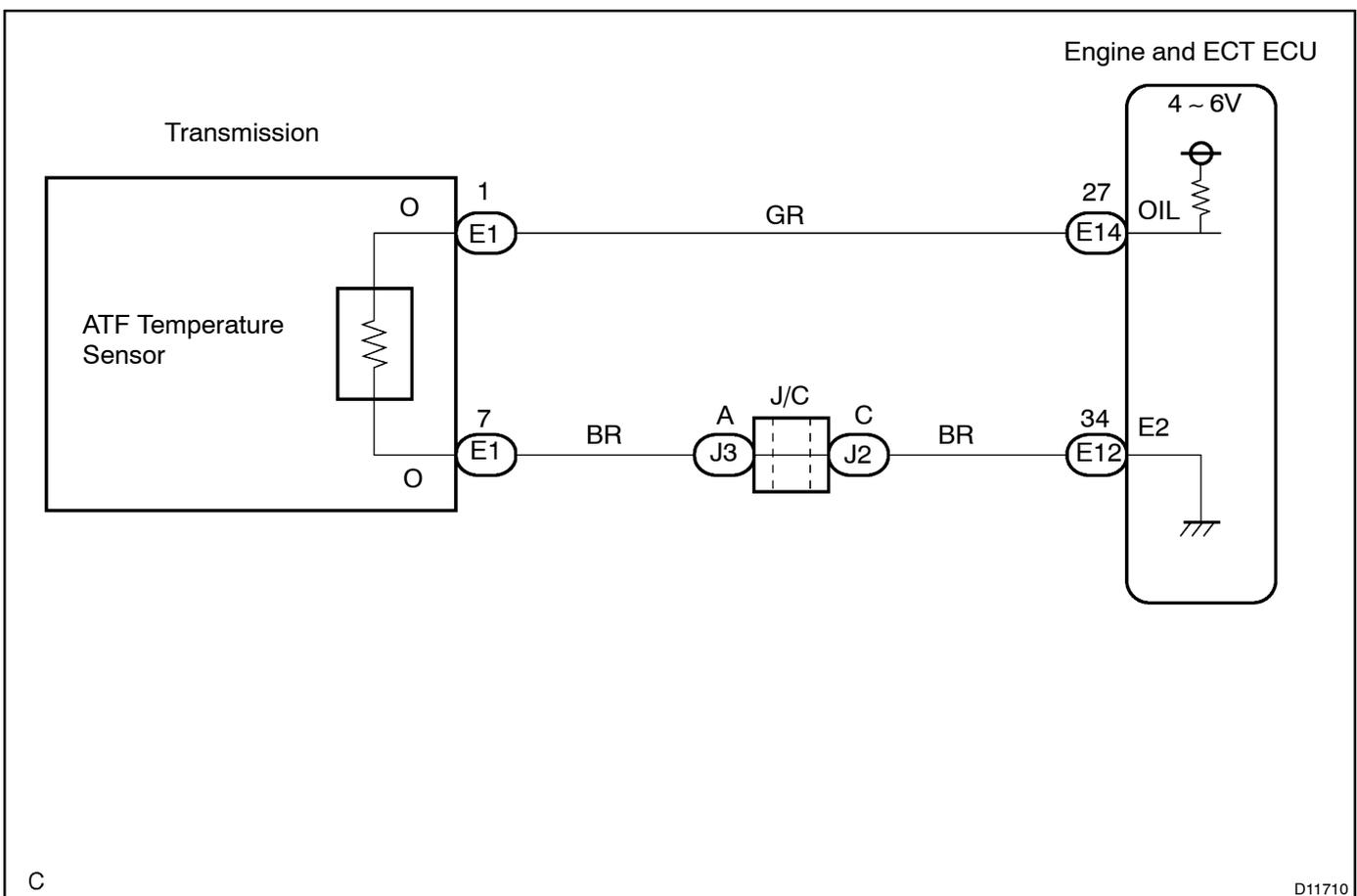
DTC	P0710/38	Transmission Fluid Temperature Sensor Malfunction (ATF Temperature Sensor)
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CIRCUIT DESCRIPTION

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

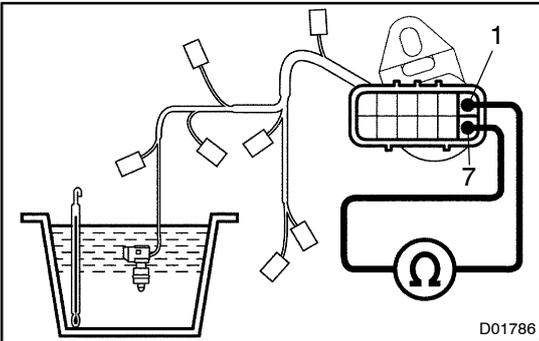
DTC No.	DTC Detecting Condition	Trouble Area
P0710/38	Either (a) or (b) is detected for 0.5 sec. or more. (2-trip detection logic) (a) Temperature sensor resistance is less than 79 Ω (b) After the engine has been operating for 15 minutes or more, the resistance at the temp. sensor is more than 156 k Ω	<ul style="list-style-type: none"> • 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) Disconnect the solenoid wire connector.
- (b) Remove the oil pan.
- (c) Disconnect all solenoid valve connectors.
- (d) Disconnect the ATF temperature sensor.

CHECK:

Measure resistance between terminals 1 and 7 of transmission wire connector at 25°C (77°F) and 110°C (230°F).

OK:**Resistance (Approx.):**

25°C (77°F): 3.5 kΩ

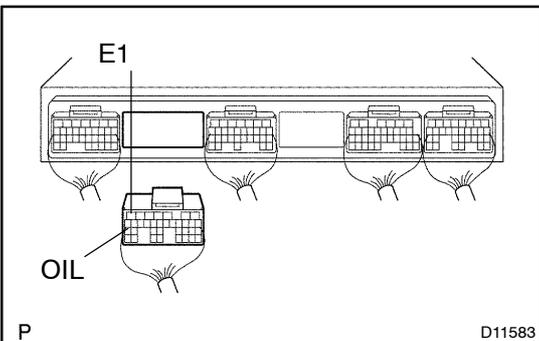
110°C (230°F): 231 - 263 Ω

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Replace the ATF temperature sensor (transmission wire) (See page AT-9).

OK

2 Measure resistance between terminals OIL and E1 of Engine and ECT ECU connector.

**PREPARATION:**

- (a) Remove the Engine and ECT ECU hood.
- (b) Disconnect the connector of the Engine and ECT ECU.

CHECK:

Measure resistance between terminals OIL and E1 of Engine and ECT ECU connector.

OK:**Resistance (Approx.):**

25°C (77°F): 3.5 kΩ

110°C (230°F): 231 - 263 Ω

NG

Repair or replace the harness or connector. (See page IN-34).

OK

Check and replace the Engine and ECT ECU (See page IN-34).