DI2L9−03

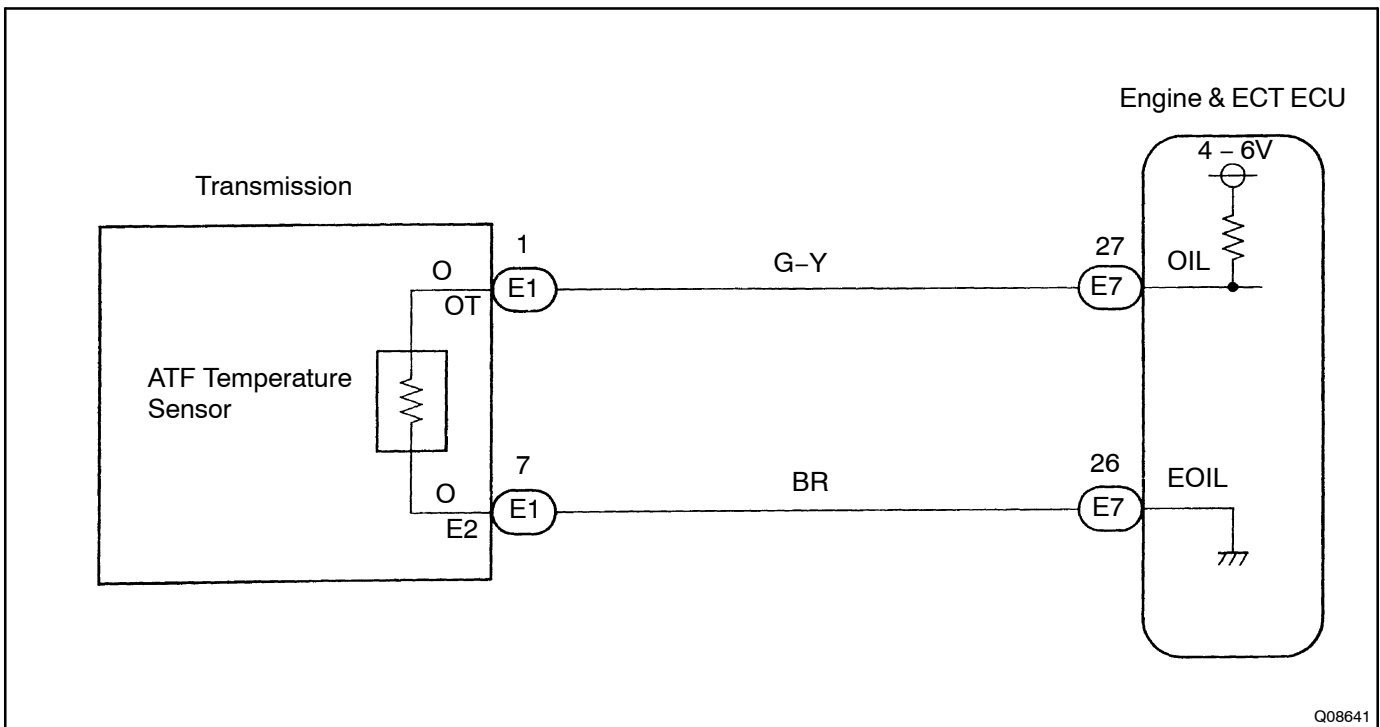| DTC	P0710/38	Transmission Fluid Temperature Sensor Malfunction (ATF Temperature Sensor)

CIRCUIT DESCRIPTION

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

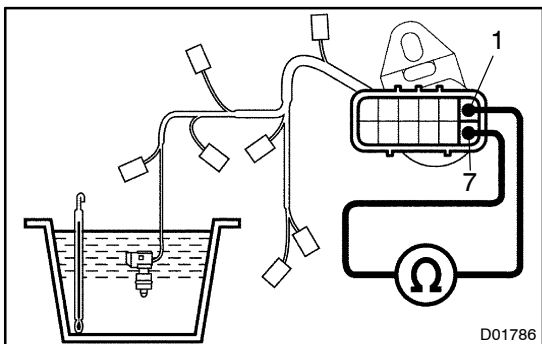| DTC No.	DTC Detecting Condition	Trouble Area
P0710/38	Either 1. or 2. is detected for 0.5 sec. or more (2−trip detection logic). 1. Temperature sensor resistance is less than 79 Ω 2. After the engine has been operating for 15 minutes or more, the resistance at the temp. sensor is more than 156 kΩ	• Open or short in ATF temperature sensor • ATF temperature sensor • Engine & ECT ECU

WIRING DIAGRAM

Q08641

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)   Remove transmission wire harness.

CHECK:
Measure resistance between terminals 1 and 7 of solenoid 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

NG	Replace the ATF temperature sensor (transmission wire).

OK

2	Check harness and connector between ATF temperature sensor and Engine & ECT ECU (See page IN−35).

NG	Repair or replace the harness or connector.

OK

Check and replace the Engine & ECT ECU (See page IN−35).