DI2L9–01

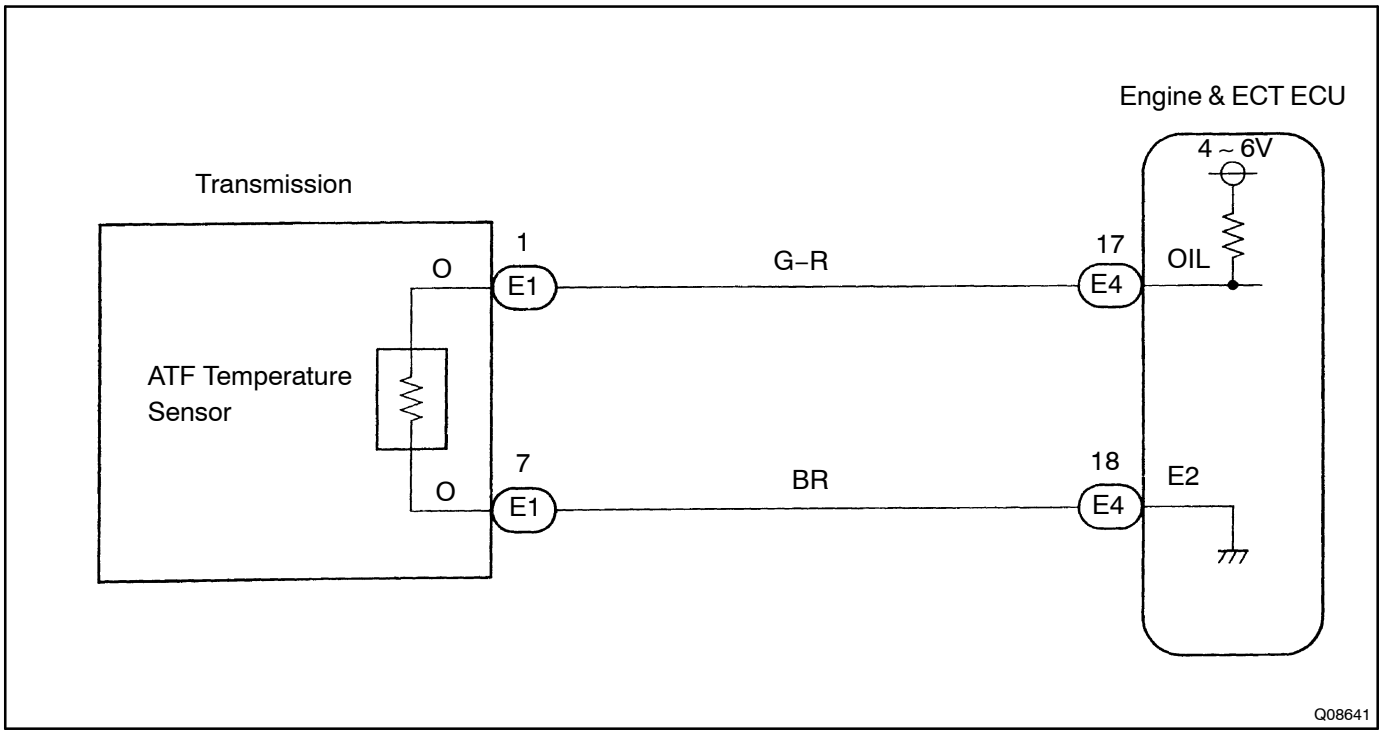
| DTC | P0710/38 | Transmission Fluid Temperature Sensor Malfunction (ATF Temperature Sensor) |
|---|---|---|

## CIRCUIT DESCRIPTION

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

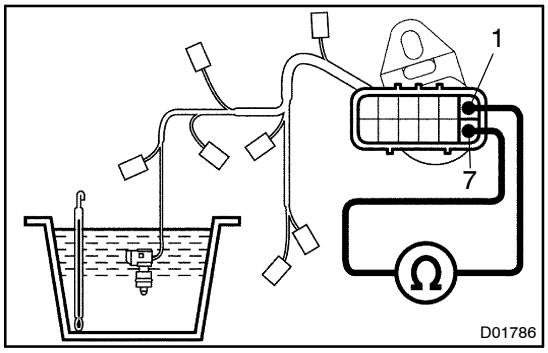
| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| P0710/38 | Either (a) or (b) is detected for 0.5 sec. or more.<br>(2–trip detection logic)<br>(a) Temperature sensor resistance is less than 79 Ω<br>(b) After the engine has been operating for 15 minutes or more, the resistance at the temp. sensor is more than 156 kΩ | • Open or short in ATF temperature sensor<br>• ATF temperature sensor<br>• Engine & 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) 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–29). |

NG → Repair or replace the harness or connector.

OK

Check and replace the Engine & ECT ECU (See page IN–29).