

<b>DTC</b>	<b>P0711</b>	<b>Transmission Fluid Temperature Sensor "A" Performance</b>
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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.

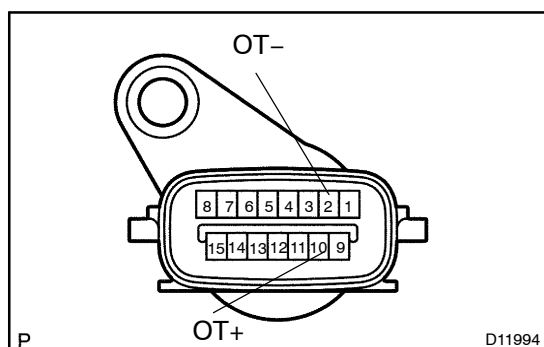
DTC No.	DTC Detecting Condition	Trouble Area
P0711	Both (a) and (b) are detected: (2-trip detection logic) (a) After 12 sec. of engine start, temp. of atmosphere and that of engine coolant is more than $-10^{\circ}\text{C}$ (b) After normal driving for over 20 min. and 10 km, ATF temp. is less than $10^{\circ}\text{C}$	<ul style="list-style-type: none"> <li>• Open or short in ATF temperature sensor No. 1 circuit</li> <li>• ATF temperature sensor No. 1</li> <li>• Engine and ECT ECU</li> </ul>

## WIRING DIAGRAM

See page DI-37.

## INSPECTION PROCEDURE

<b>1</b>	<b>Check transmission wire.</b>
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### PREPARATION:

Disconnect the transmission wire connector from the transmission.

### CHECK:

Measure resistance between terminals OT+ and OT – of the transmission wire connector and body ground.

### OK:

**Resistance: 1 M $\Omega$  or higher**

### CHECK:

Measure the resistance between terminals OT+ and OT –.

### OK:

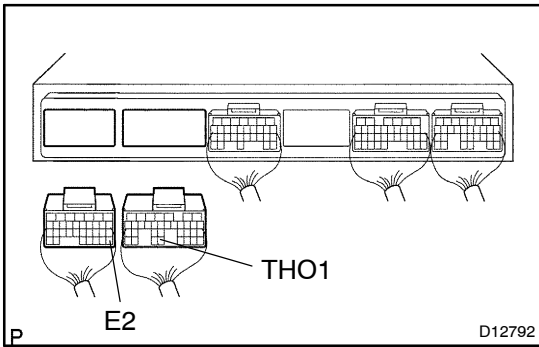
Temperature: $^{\circ}\text{C}$ ( $^{\circ}\text{F}$ )	Resistance: k $\Omega$
10 (50)	6.4
110 (230)	0.2

**NG**

**Replace the transmission wire (ATF temperature sensor).**

**OK**

## 2 Measure resistance between terminal THO1 and E2 of Engine and ECT ECU connector.



### PREPARATION:

- (a) Connect the transmission wire connector.
- (b) Disconnect the connector of the Engine and ECT ECU.

### CHECK:

Measure the resistance between terminals THO1 and E2.

### OK:

Temperature: °C (°F)	Resistance: kΩ
10 (50)	6.4
110 (230)	0.2

### CHECK:

Measure resistance between terminals THO1 and E2 of the Engine and ECT ECU connector and body ground.

### OK:

**Resistance: 1 MΩ or higher**

**NG**

**Repair or replace the harness or connector**  
(See page IN-38).

**OK**

**Check and replace the Engine and ECT ECU**  
(See page IN-38).