

DTC	P0973/62	Shift Solenoid "A" Control Circuit Low (Shift Solenoid Valve S1)
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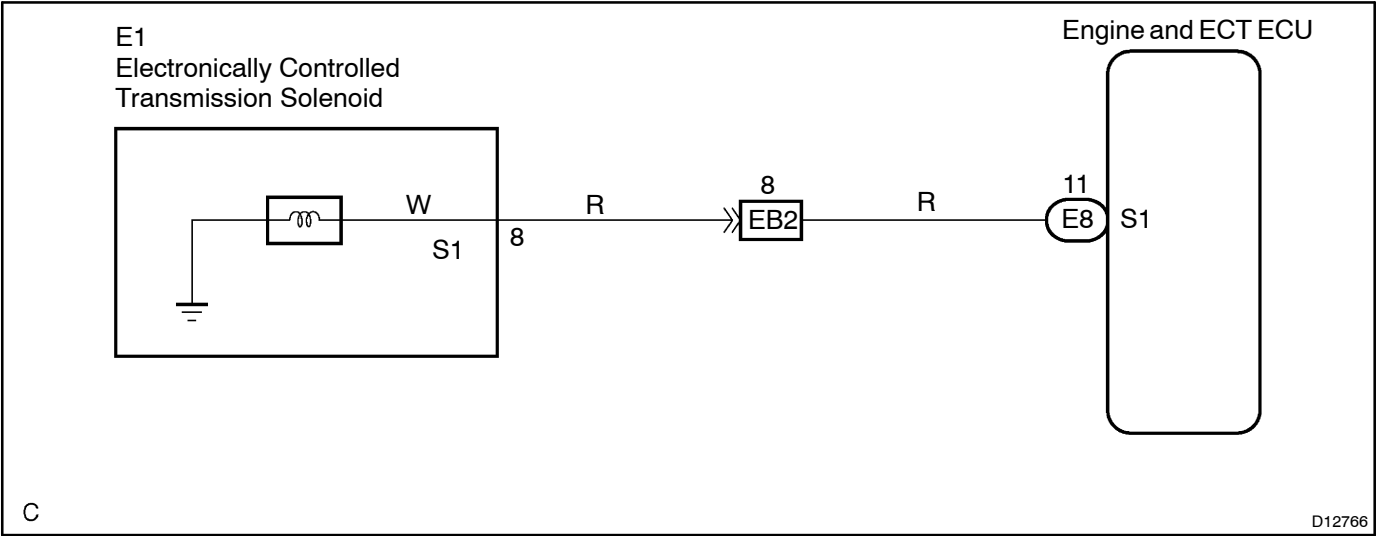
DTC	P0974/62	Shift Solenoid "A" Control Circuit High (Shift Solenoid Valve S1)
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CIRCUIT DESCRIPTION

See [page DI-49](#).

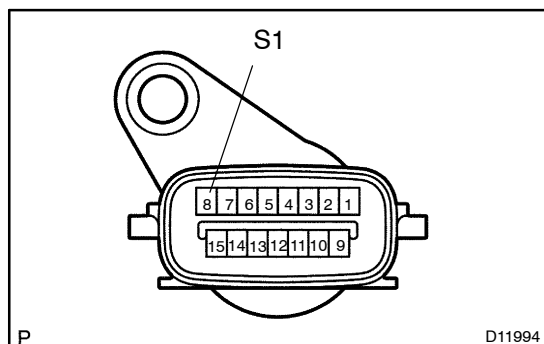
DTC No.	DTC Detection Condition	Trouble Area
P0973/62	Engine and ECT ECU detects short in solenoid valve S1 circuit 4 times when solenoid valve S1 is operated (1-trip detection logic)	<ul style="list-style-type: none"><li>• Short in shift solenoid valve S1 circuit</li><li>• Shift solenoid valve S1</li><li>• Engine and ECT ECU</li></ul>
P0974/62	Engine and ECT ECU detects open in solenoid valve S1 circuit 4 times when solenoid valve S1 is not operated (1-trip detection logic)	<ul style="list-style-type: none"><li>• Open in shift solenoid valve S1 circuit</li><li>• Shift solenoid valve S1</li><li>• Engine and ECT ECU</li></ul>

WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 Check transmission wire.

**PREPARATION:**

Disconnect the transmission wire connector.

**CHECK:**

Measure resistance between S1 of transmission wire connector and body ground.

**OK:**

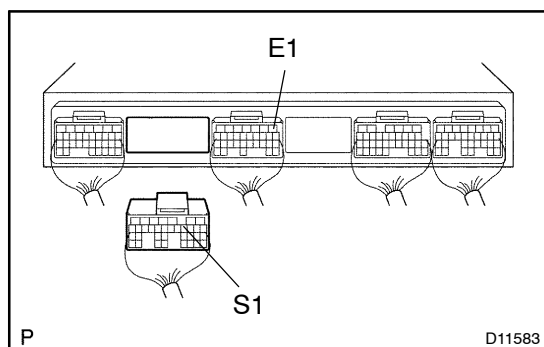
Resistance: 11 – 15  $\Omega$  at 20°C (68°F)

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Go to step 3.

OK

## 2 Measure resistance between terminal S1 and E1 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 resistance between terminals S1 and E1 of Engine and ECT ECU connector.

**OK:**

Resistance: 11 – 15  $\Omega$  at 20°C (68°F)

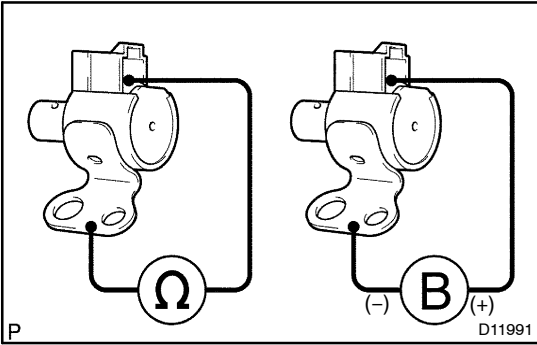
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Repair or replace the harness or connector (See page IN-38).

OK

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

### 3 Check shift solenoid valve S1.



#### PREPARATION:

- (a) Jack up the vehicle.
- (b) Remove the oil pan.
- (c) Remove the shift solenoid valve S1.

#### CHECK:

Measure the resistance between the solenoid connector terminal and the body ground.

#### OK:

**Resistance: 11 – 15 Ω at 20°C (68°F)**

#### CHECK:

Connect the battery positive lead to the solenoid connector terminal and the battery negative lead to the solenoid body ground.

#### OK:

**Solenoid sounds operation noise.**

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**Replace the shift solenoid valve S1  
(See page AT-8).**

OK

**Repair or replace the transmission wire  
(See page AT-6).**