

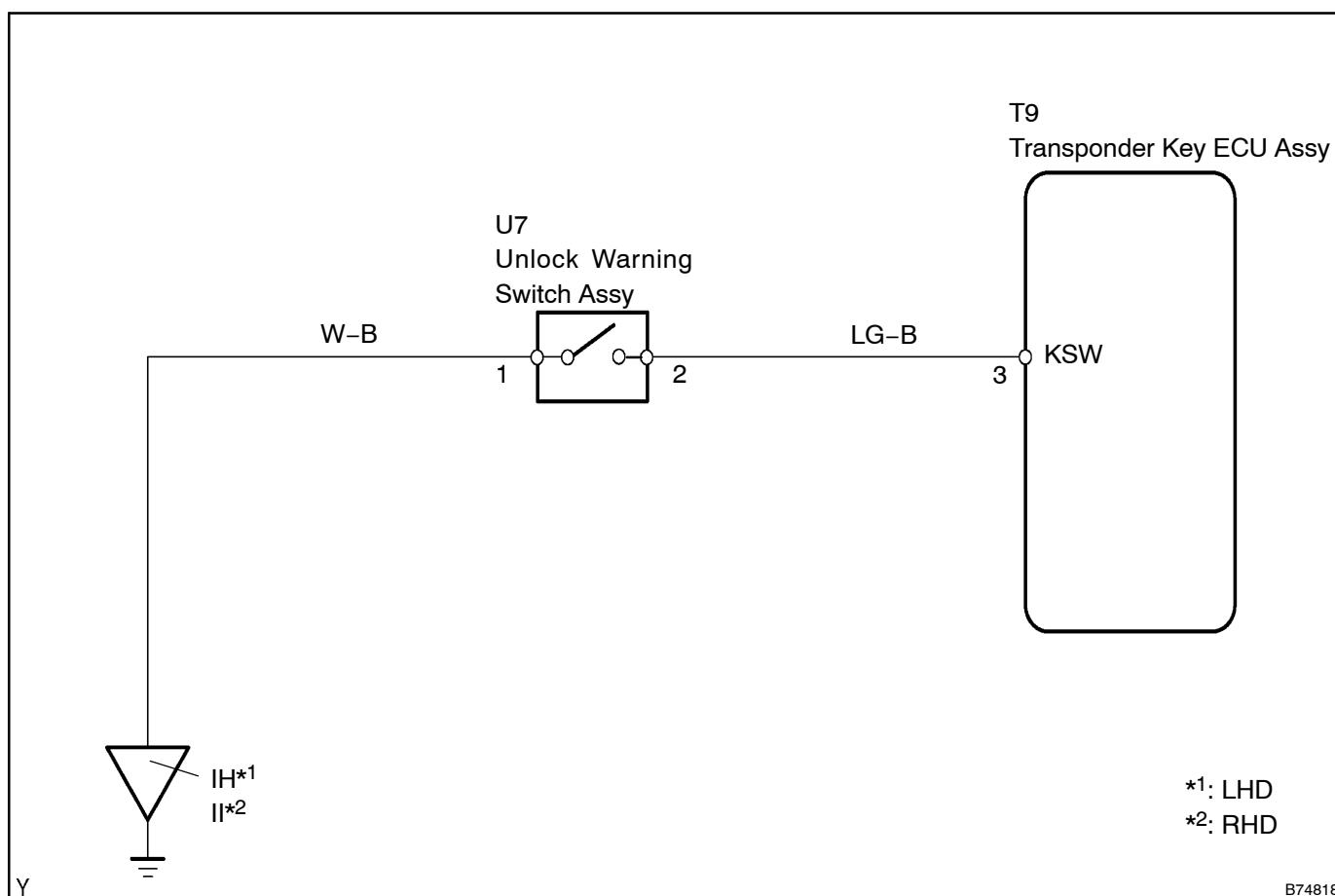
DTC	B2780	PUSH SWITCH/KEY UNLOCK WARNING SWITCH MALFUNCTION
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CIRCUIT DESCRIPTION

This DTC will be output if the transponder key ECU does not detect that the unlock warning switch is ON even when the ignition switch is ON. Under the normal conditions, the unlock warning switch is ON when the ignition switch is ON.

DTC No.	DTC Detection Condition	Trouble Area
B2780	Unlock warning switch ON is not detected when ignition switch is ON	<ul style="list-style-type: none"> • Unlock warning switch Assy • Wire harness • Transponder key ECU Assy

WIRING DIAGRAM

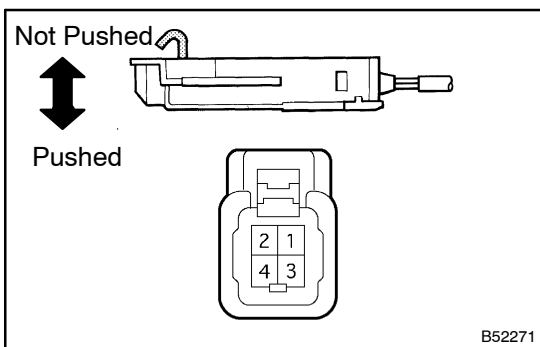


INSPECTION PROCEDURE**1 READ VALUE OF INTELLIGENT TESTER II**

- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch ON with the key that cannot start the engine.
- (c) Read the DATA LIST according to the display on the intelligent tester II.

OK: "ON" (Key is in ignition key cylinder) appears on the screen.

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
Key SW	Unlock warning switch signal /ON or OFF	ON: Key is in ignition key cylinder OFF: No key is in ignition key cylinder	–

NG**Go to step 2****OK****REPLACE TRANSPONDER KEY ECU ASSY****2 INSPECT UNLOCK WARNING SWITCH ASSY**

- (a) Remove the unlock warning switch.
- (b) Measure the unlock warning switch resistance.

Standard:

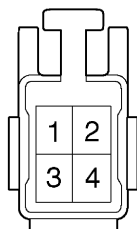
Tester Connection	Switch Position	Specified Condition
1 – 2	Pushed	Below 1 Ω
1 – 2	Not pushed	10 k Ω or higher

NG**REPLACE UNLOCK WARNING SWITCH ASSY****OK**

3 CHECK WIRE HARNESS (UNLOCK WARNING SWITCH ASSY – BODY GROUND)

Wire Harness Side

U7
Unlock Warning Switch Assy



B69245

- Disconnect the U7 switch connector.
- Measure the resistance between the wire harness side connector and body ground.

Standard:

Tester Connection	Specified Condition
U7-1 – Body ground	Below 1 Ω

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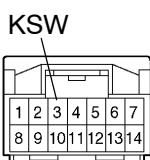
REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

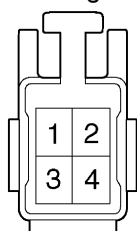
4 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY – UNLOCK WARNING SWITCH ASSY)

Wire Harness Side

T9
Transponder Key ECU Assy



U7
Unlock Warning Switch Assy



B63404
B69245

B64973

- Disconnect the T9 ECU and U7 switch connectors.
- Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
T9-3 (KSW) – U7-2	Below 1 Ω

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE TRANSPONDER KEY ECU ASSY