

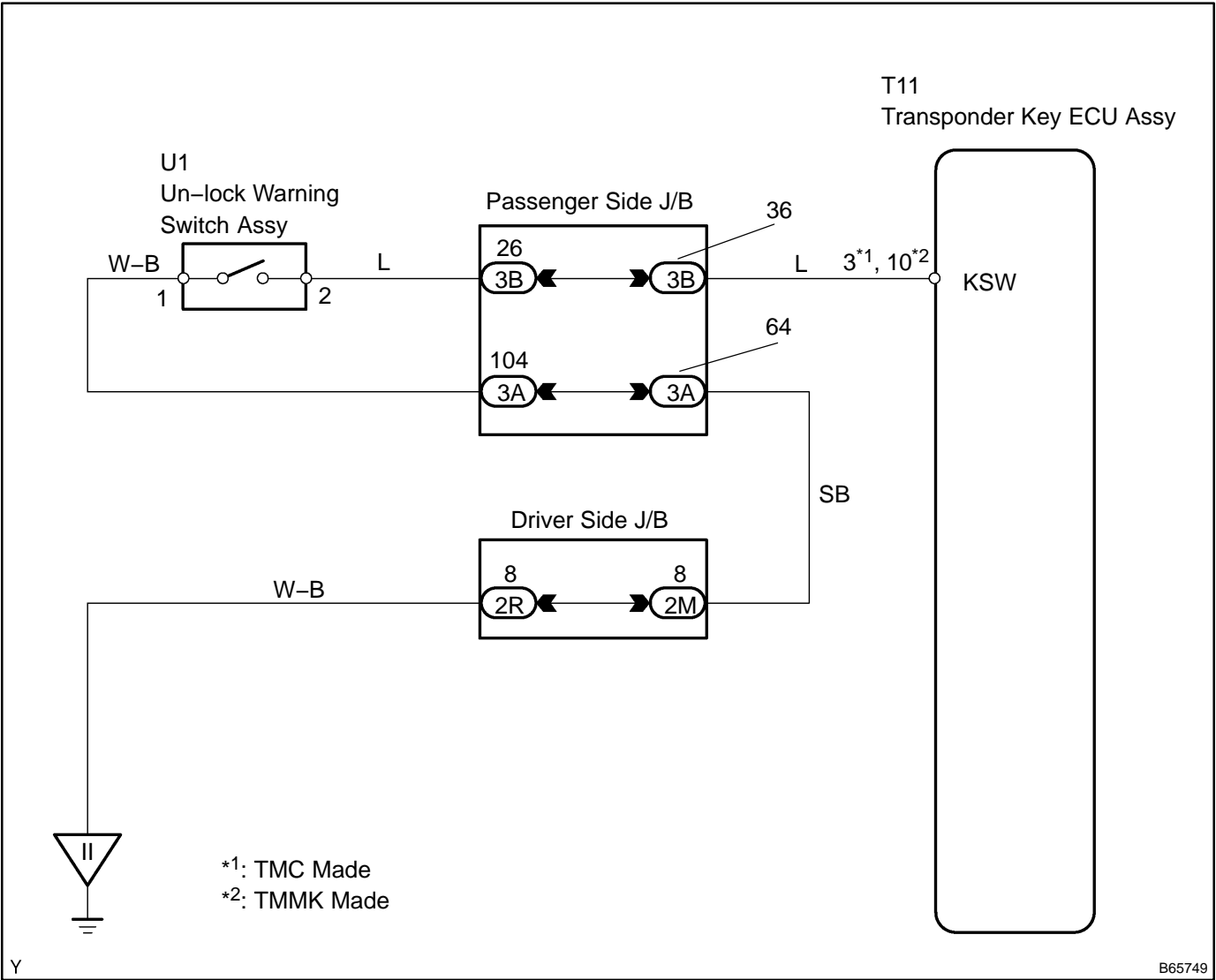
DTC	B2780	PUSH SWITCH/KEY UNLOCK WARNING SWITCH MALFUNCTION
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CIRCUIT DESCRIPTION

This DTC will be output if the transponder key ECU does not detect that the un-lock warning switch is ON even when the ignition switch is ON (Under the normal condition, the un-lock warning switch is ON when the ignition switch is ON).

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

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Start the inspection from step 1 when using the hand-held tester and start from step 2 when not using the hand-held tester.

1 READ VALUE OF HAND-HELD TESTER (TRANSPONDER KEY ECU (SWITCH CONDITION))

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON with the key that will not start the engine.
- (c) Select the item "KEY SW" on the hand-held tester.

OK:

OFF → Key is in IG key cylinder

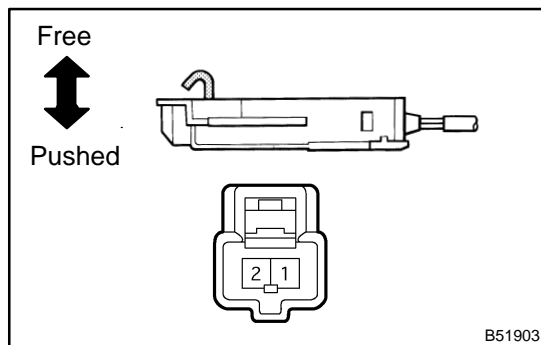
ON → No key is in IG key cylinder

OK

REPLACE TRANSPONDER KEY ECU ASSY

NG

2 INSPECT UN-LOCK WARNING SWITCH ASSY



- (a) Remove the un-lock warning switch.
- (b) Inspect the un-lock warning switch continuity.

Standard:

Terminal No.	Condition	Specified Condition
1 ↔ 2	Switch pushed (Key set)	Continuity
	Switch free (Key removed)	No continuity

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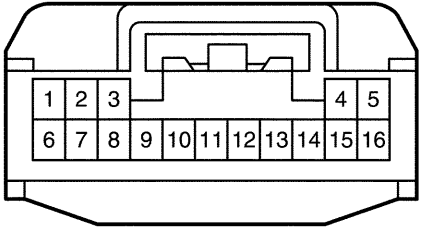
REPLACE UN-LOCK WARNING SWITCH ASSY

OK

**3 CHECK WIRE HARNESS
(TRANSPONDER KEY ECU ASSY ↔ UN-LOCK WARNING SWITCH ASSY)**

Wire Harness Side

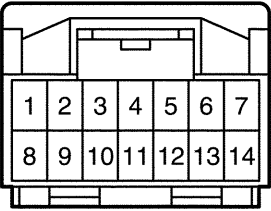
T11 Transponder Key ECU Assy



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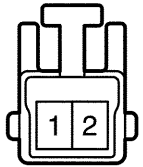
(TMC Made)

T11
Transponder Key ECU Assy



(TMMK Made)

U1
Un-lock Warning
Switch Assy



cmc0383

- (a) Disconnect the T11 ECU and U1 switch connector.
- (b) Check the continuity between the wire harness side connectors.

Standard (TMC Made):

Symbols (Terminal No.)	Specified Condition
KSW (T11-3) ↔ - (U1-2)	Continuity

Standard (TMMK Made):

Symbols (Terminal No.)	Specified Condition
KSW (T11-10) ↔ - (U1-2)	Continuity

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE TRANSPONDER KEY ECU ASSY