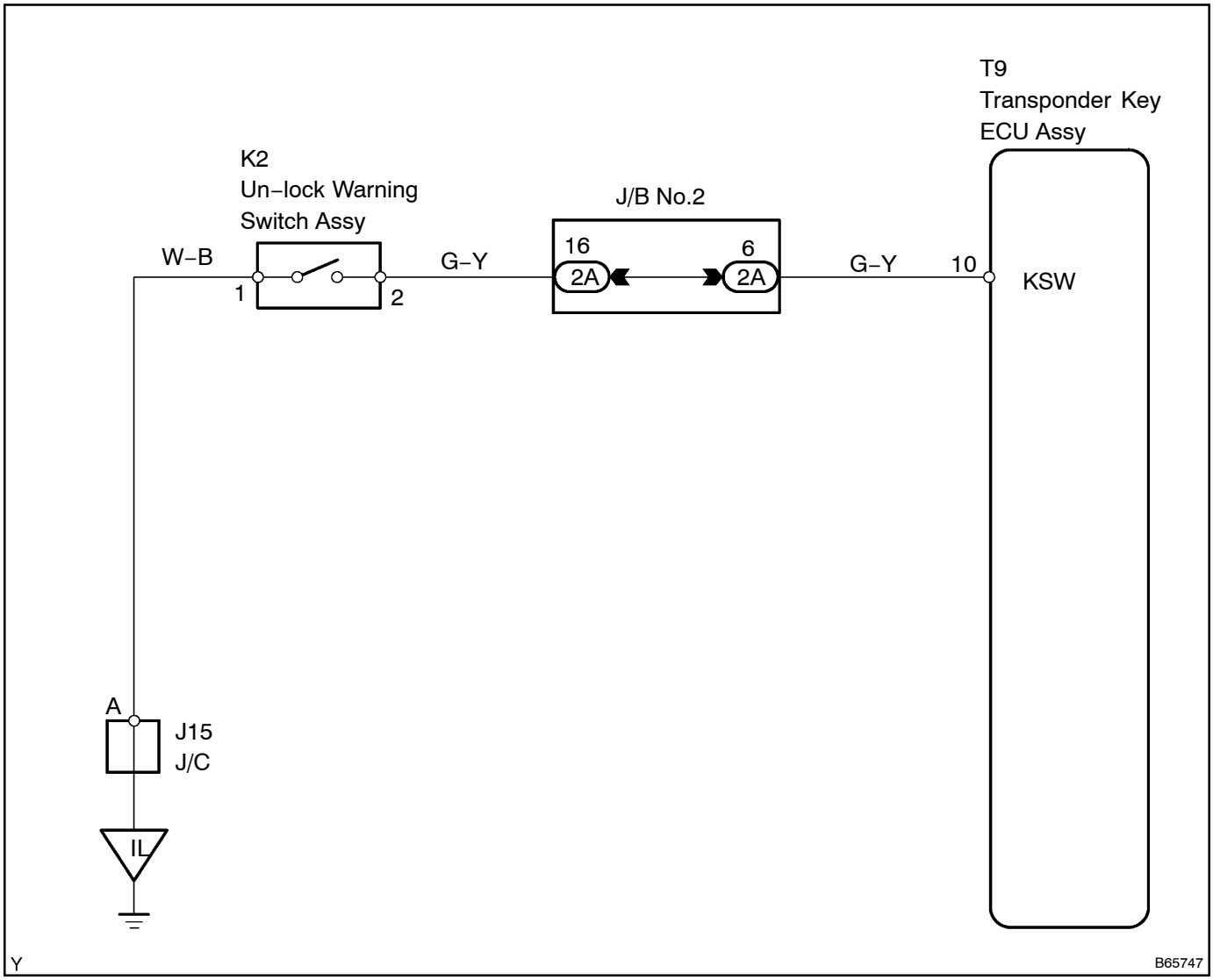
DTC	B2780	PUSH SWITCH/KEY UNLOCK WARNING SWITCH MALFUNCTION

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	• 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.

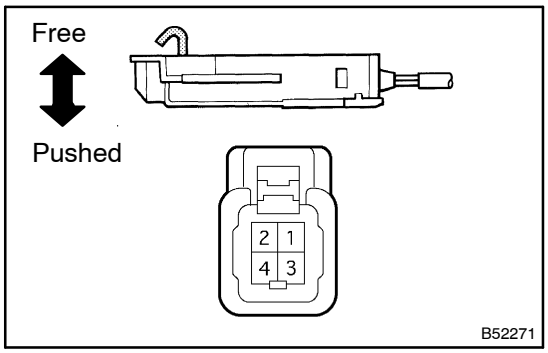
1	READ VALUE OF HAND–HELD TESTER (TRANSPONDER KEY ECU (SWITCH CONDITION))

(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

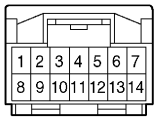
NG → **REPLACE UN–LOCK WARNING SWITCH ASSY**

OK

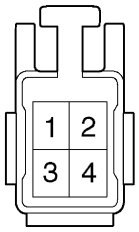
3	CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY ⇔ UN–LOCK WARNING SWITCH ASSY)

Wire Harness Side

T9
Transponder Key ECU Assy



K2
Un–lock Warning Switch Assy



B63404
B69245
B64973

(a) Disconnect the T9 ECU and K2 switch connectors.
(b) Check the continuity between the wire harness side connectors.

Standard:

Symbols (Terminal No.)	Specified Condition
KSW (T9–10) ⇔ – (K2–2)	Continuity

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

REPLACE TRANSPONDER KEY ECU ASSY