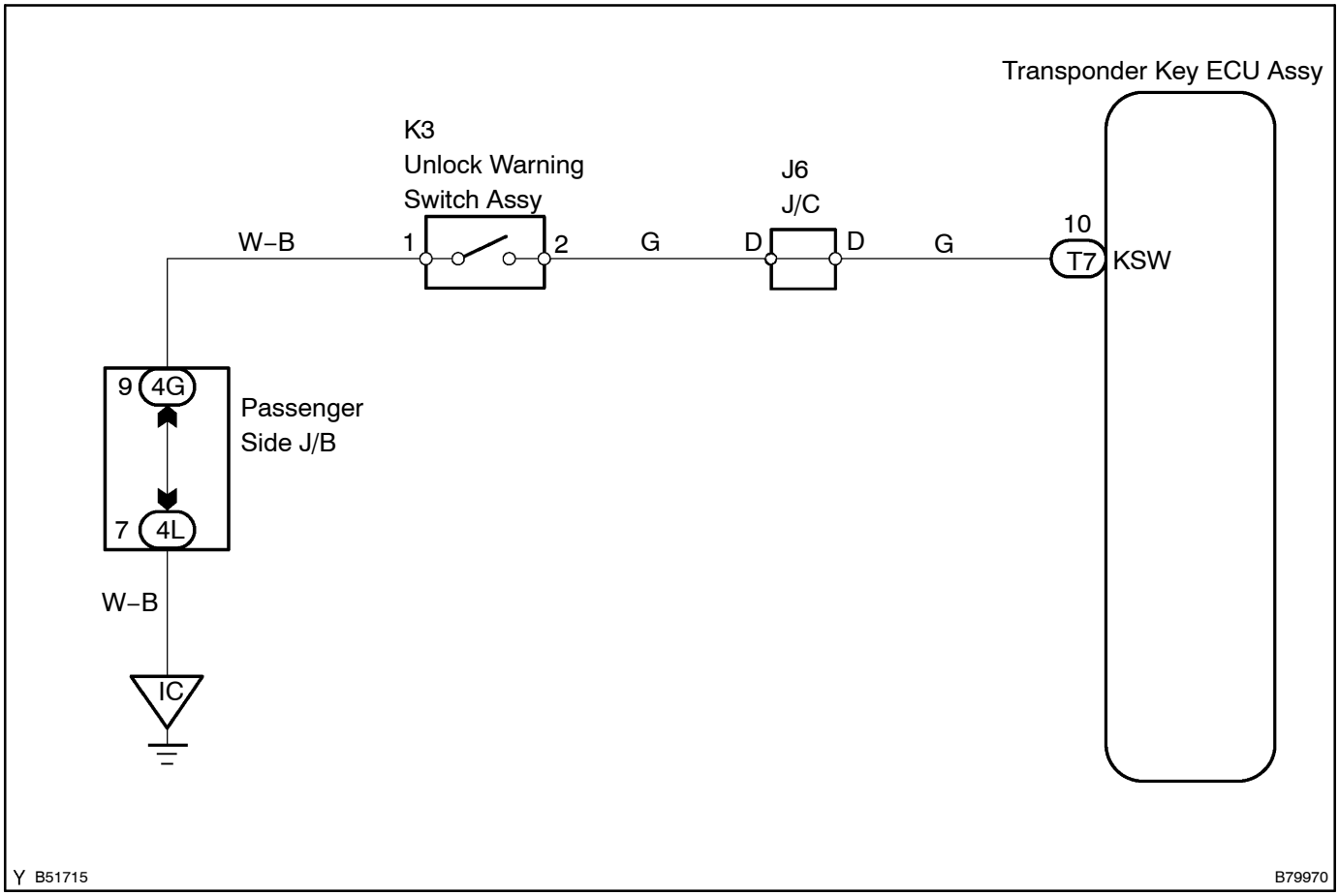
| DTC | B2780 | PUSH SWITCH/KEY UNLOCK WARNING SWITCH MALFUNCTION |
|---|---|---|

## CIRCUIT DESCRIPTION

This DTC will be output if the transponder key ECU does not detect that the unlock warning switch is ON even when the ignition switch is ON. Under 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 | • Unlock warning switch assy<br>• Wire harness<br>• Transponder key ECU assy |

## WIRING DIAGRAM



# INSPECTION PROCEDURE

| 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 cannot start the engine.
(c) Select the item ”KEY SW” on the hand–held tester. Read the values.

| 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<br>OFF: No key is in ignition key cylinder | – |

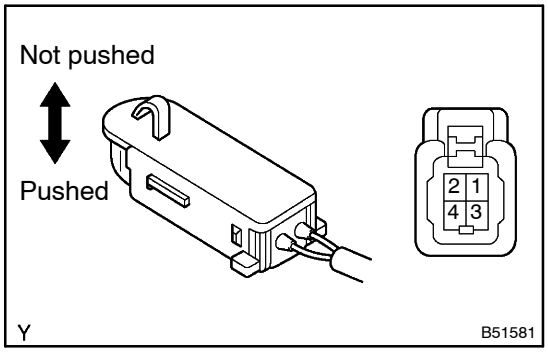
**OK: ”ON” (key is in ignition key cylinder) appears on the screen.**

**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 resistance of the unlock warning switch.
**Standard:**

| Tester Connection | Switch Condition | Specified Condition |
|---|---|---|
| 1 – 2 | Pushed | Below 1 Ω |
| 1 – 2 | Not pushed | 10 kΩ or higher |

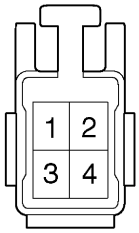
**NG** → **REPLACE UNLOCK WARNING SWITCH ASSY**

**OK**

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

**Wire Harness Side**

K3
Unlock Warning Switch Assy




B69245

(a) Disconnect the K3 switch connector.
(b) Measure the resistance of the wire harness side connector.

**Standard:**

| Tester Connection | Specified Condition |
|---|---|
| K3–1 – Body ground | Below 1 Ω |

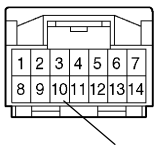
**NG** → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

**OK**

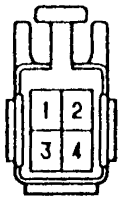
## 4 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY – UNLOCK WARNING SWITCH ASSY)

**Wire Harness Side**

T7
Transponder Key ECU Assy




K3
Unlock Warning Switch Assy




B63404
B65748

B78556

(a) Disconnect the T7 ECU and K3 switch connectors.
(b) Measure the resistance of the wire harness side connectors.

**Standard:**

| Tester Connection | Specified Condition |
|---|---|
| T7–10 (KSW) – K3–2 | Below 1 Ω |

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

**OK**

**REPLACE TRANSPONDER KEY ECU ASSY**