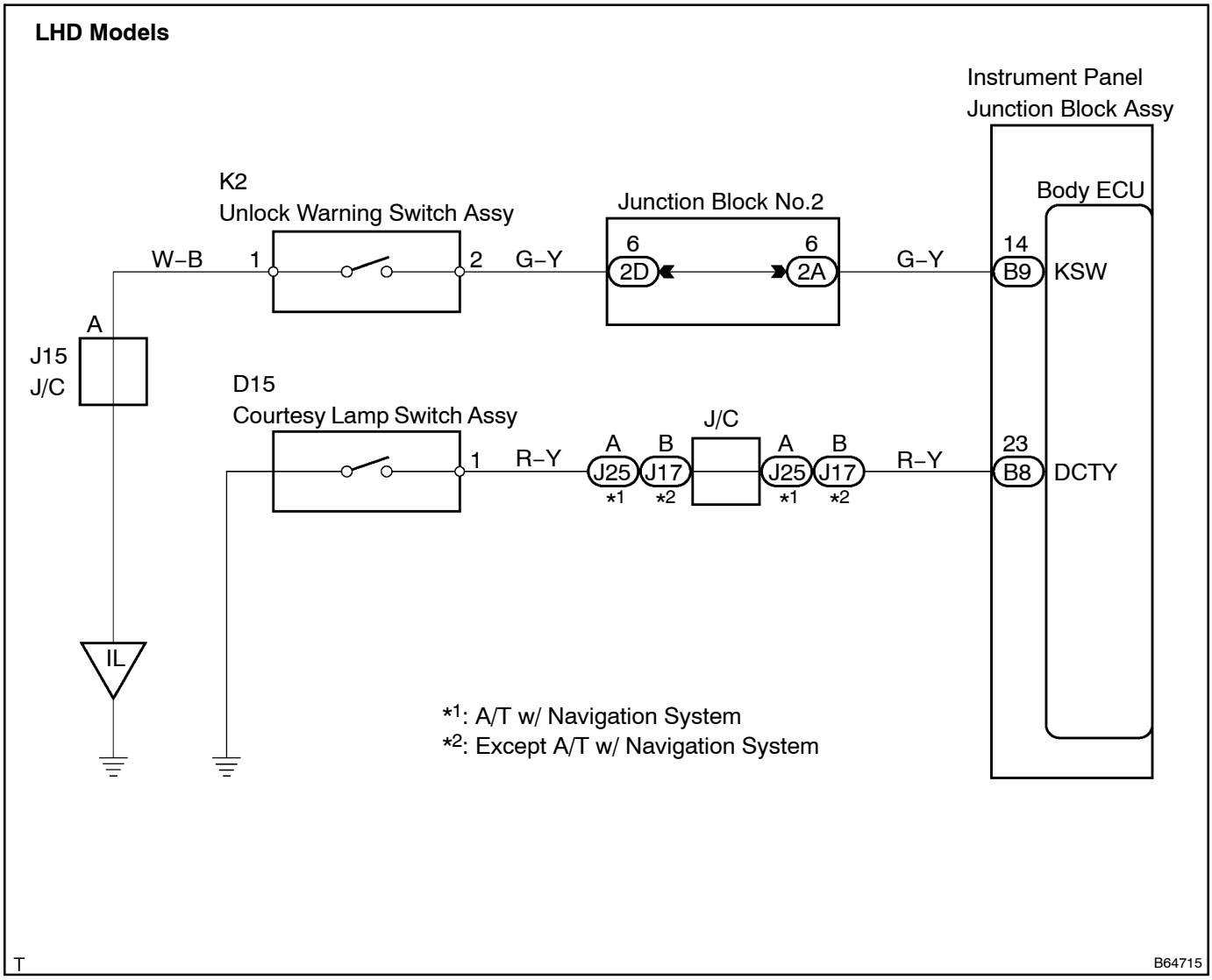
# KEY LOCK–IN PREVENTION FUNCTION DOES NOT WORK PROPERLY (MANUAL OPERATION AND OPERATION INTERLOCKED WITH KEY ARE ACTIVE)

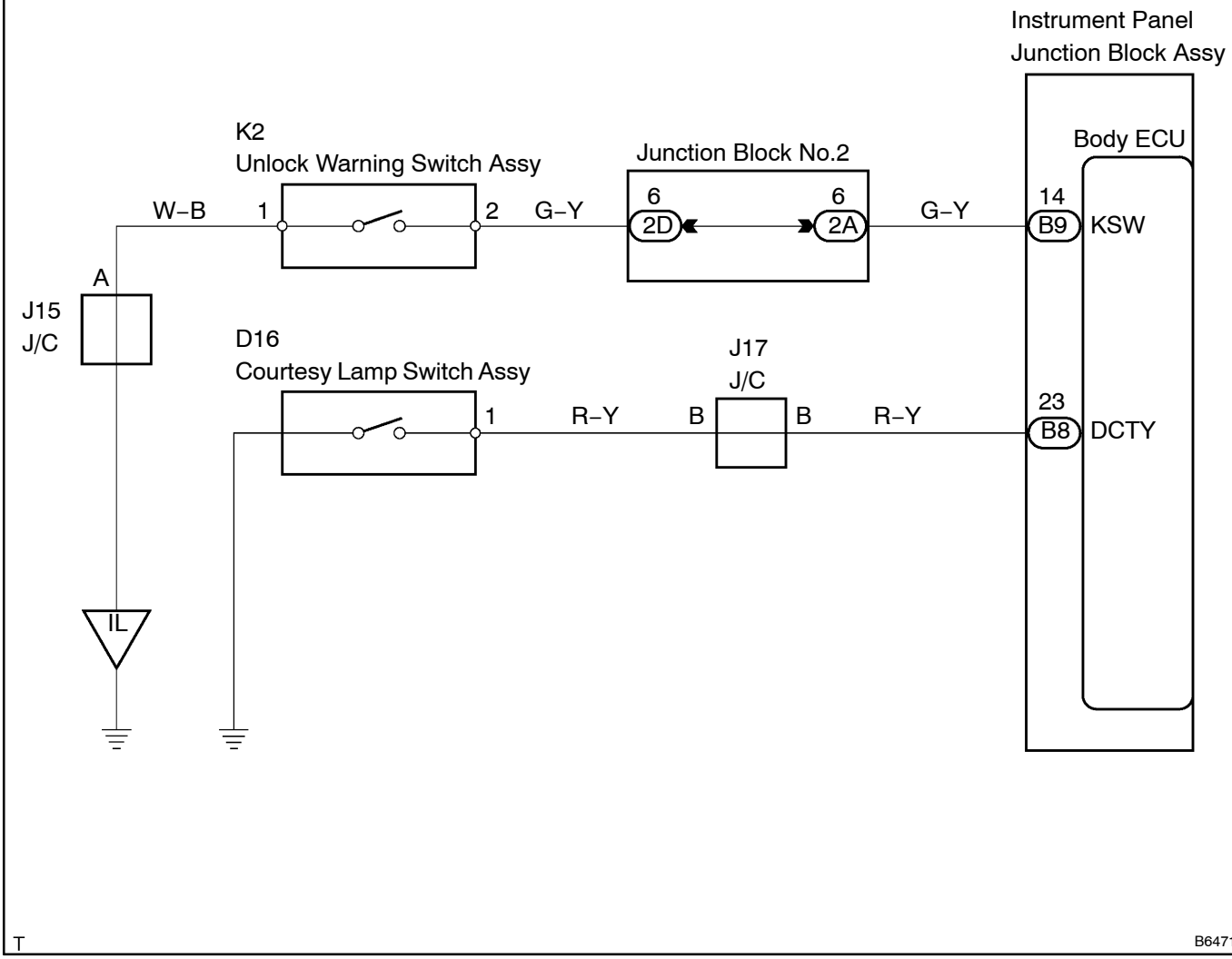
## CIRCUIT DESCRIPTION

The unlock warning switch turns on when the key is inserted in the ignition key cylinder and the door courtesy switch turns on when the driver door is opened, and the body ECU monitors both switches conditions. According to these switches conditions, the body ECU controls the door locking operation so as not to lock the doors while both switches are on, in order to prevent the key from being locked in.

## WIRING DIAGRAM



**RHD Models**


Instrument Panel
Junction Block Assy
Body ECU
K2
Unlock Warning Switch Assy
Junction Block No.2
W–B
1
2
G–Y
6
2D
6
2A
G–Y
14
B9
KSW
A
J15
J/C
D16
Courtesy Lamp Switch Assy
J17
J/C
1
R–Y
B
B
R–Y
23
B8
DCTY
IL
T
B64716

# INSPECTION PROCEDURE

## 1 READ VALUE OF HAND–HELD TESTER

(a) Using the hand–held tester, check that unlock warning switch signal is output when the switch is operated.

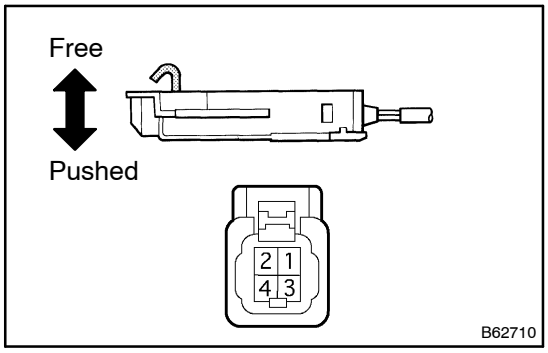
**Standard (Body ECU (Switch condition)):**

| Item | Measurement Item/Display (Range) | Normal Condition | Diagnostic Note |
|---|---|---|---|
| KEY UNLK WRN SW | Key unlock warning switch signal/ON or OFF | ON: Key is in ignition key cylinder<br>OFF: No key is in ignition key cylinder | – |

**OK** → **Go to step 4**

**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 free (Key removed) | No continuity |
| | Switch pushed (Key set) | Continuity |

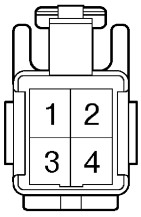
**NG** → **REPLACE UN–LOCK WARNING SWITCH ASSY**

**OK**

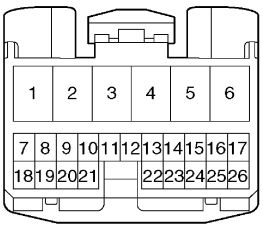
| 3 | CHECK WIRE HARNESS (UN–LOCK WARNING SWITCH ASSY ⇔ INSTRUMENT PANEL JUNCTION BLOCK ASSY (BODY ECU)) |
|---|---|

**Wire Harness Side**

K2
Un–lock Warning Switch Assy




T B9
Instrument Panel Junction Block Assy
(Body ECU)




B64723

(a) Disconnect the K2 un–lock warning switch and B9 body ECU connectors.
(b) Check the continuity between the wire harness connectors.

**Standard (Check for open) :**

| Symbols (Terminal No.) | Specified Condition |
|---|---|
| – (K2–2) ⇔ KSW (B9–14) | Continuity |
| – (K2–1) ⇔ Body ground | |

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

**OK**

**REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY**

| 4 | READ VALUE OF HAND–HELD TESTER |
|---|---|

(a) Using the hand–held tester, check that driver door courtesy switch signal is output when the switch is operated.

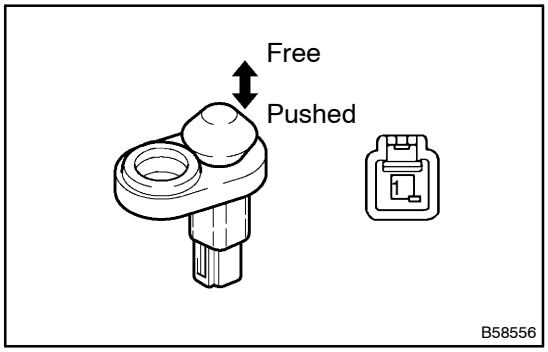
**Standard (Body ECU (Switch condition)):**

| Item | Measurement Item/Display (Range) | Normal Condition | Diagnostic Note |
|---|---|---|---|
| D DOR CTY SW | Driver side door courtesy switch signal/ON or OFF | ON: Driver side door is open<br>OFF: Driver side door is closed | – |

**OK** → **REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY**

**NG**

## 5 INSPECT FRONT DOOR COURTESY LAMP SWITCH ASSY (DRIVER SIDE DOOR)




(a) Remove the courtesy lamp switch.
(b) Inspect the courtesy lamp switch continuity.
**Standard:**

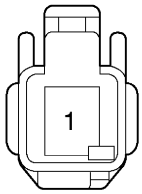
| Terminal No. | Condition | Specified Condition |
|---|---|---|
| 1 ⇔ Body ground | Free | Continuity |
| | Pushed | No continuity |

**NG** → **REPLACE FRONT DOOR COURTESY LAMP SWITCH ASSY**

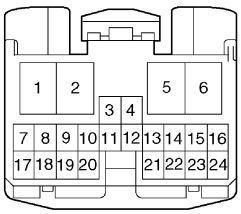
**OK**

## 6 CHECK WIRE HARNESS (COURTESY LAMP SWITCH ASSY LH, RH (DRIVER SIDE) ⇔ INSTRUMENT PANEL JUNCTION BLOCK ASSY (BODY ECU))

**Wire Harness Side**
*1 D15
*2 D16
Courtesy Lamp Switch Assy *1 LH, *2 RH




B8
Instrument Panel Junction Block Assy (Body ECU)




(a) Disconnect the *1 D15 or *2 D16 courtesy lamp switch and B8 body ECU connectors.
(b) Check the continuity between the wire harness connectors.

HINT:
- *1: LHD models
- *2: RHD models

**Standard (Check for open) :**

| Symbols (Terminal No.) | Specified Condition |
|---|---|
| LHD Models | Continuity |
| – (D15–1) ⇔ DCTY (B8–23) | |
| RHD Models | Continuity |
| – (D16–1) ⇔ DCTY (B8–23) | |

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

**OK**

**REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY**