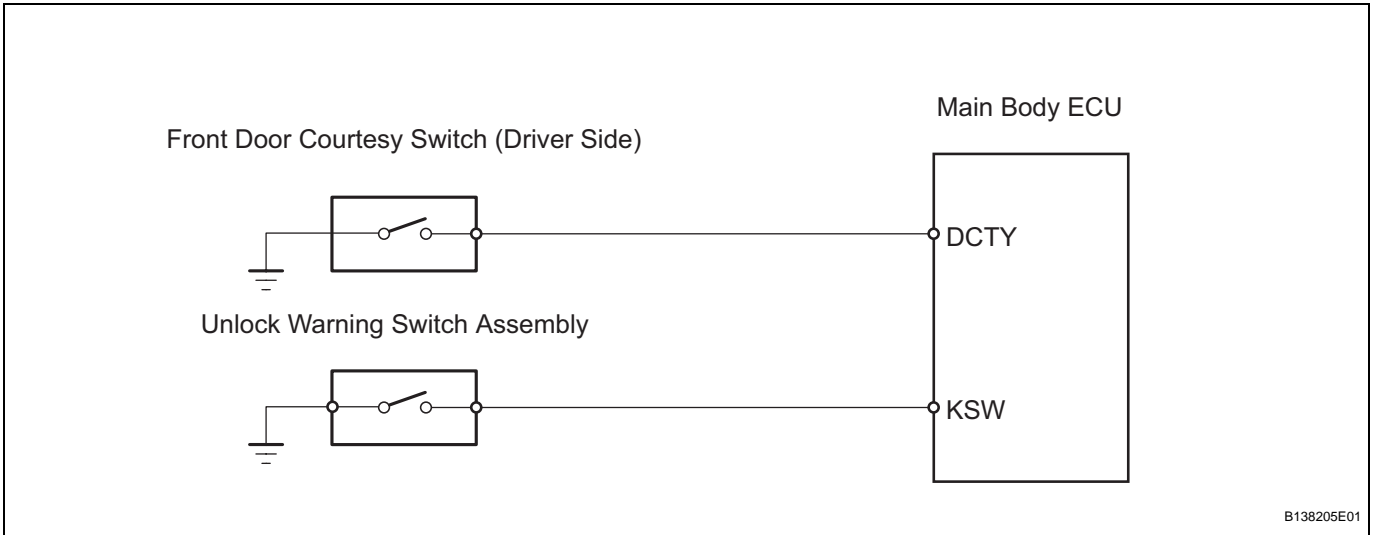


**Key Lock-in Prevention Function does not Work Properly**

**DESCRIPTION**

When the key is in the ignition key cylinder or the door courtesy light ON signal is output to the main body ECU, performing the door lock operation with the lock switch does not lock the doors.

**WIRING DIAGRAM**



**INSPECTION PROCEDURE**

**DL**

**1 READ VALUE OF INTELLIGENT TESTER (D DOR CTY SW)**

- (a) Use the DATA LIST to check the operation of the front door courtesy switch.

**BODY**

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 OFF: Driver side door is closed	-

**OK:**

The display is as specified in the normal condition.

**NG** → **Go to step 5**

**OK**

**2 READ VALUE OF INTELLIGENT TESTER (KEY UNLK WRN SW)**

- (a) Use the DATA LIST to check the operation of the door unlock warning switch.

## BODY

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

OK:

The display is as specified in the normal condition.

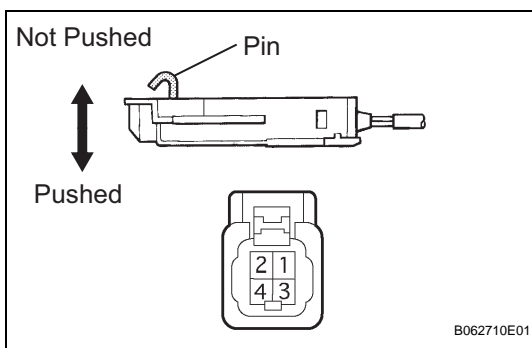
NG

REPLACE MAIN BODY ECU

OK

3

## INSPECT UNLOCK WARNING SWITCH ASSEMBLY



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

Standard resistance

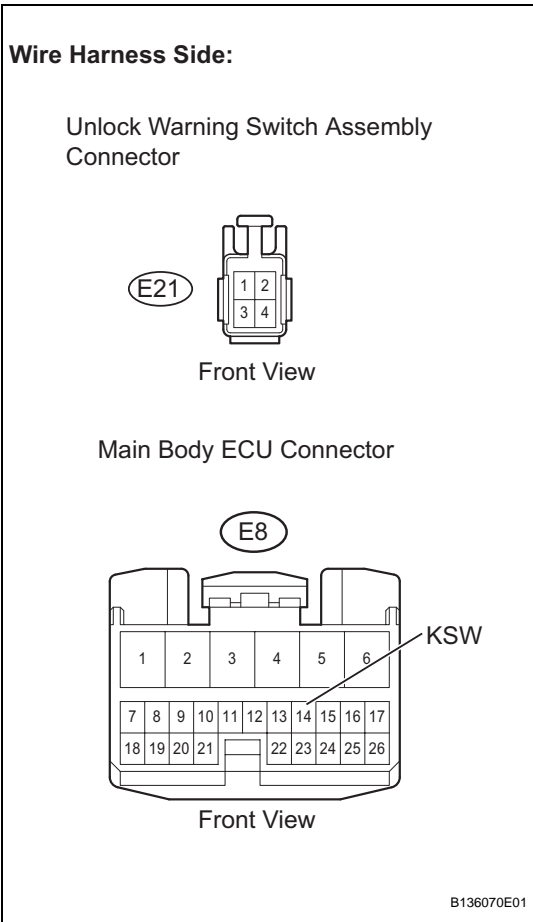
Tester Connection	Condition	Specified Condition
1 - 2	Not pushed	10 k $\Omega$ or higher
1 - 2	Pushed	Below 1 $\Omega$

NG

REPLACE UNLOCK WARNING SWITCH ASSEMBLY

OK

**4 CHECK HARNESS AND CONNECTOR (UNLOCK WARNING SWITCH ASSEMBLY - MAIN BODY ECU)**



- (a) Disconnect the E21 unlock warning switch assembly connector.
- (b) Disconnect the E8 main body ECU connector.
- (c) Measure the resistance.

**Standard resistance**

Tester Connection	Specified Condition
E21-1 - E8-14 (KSW)	Below 1 Ω
E21-1 or E8-14 (KSW) - Body ground	10 kΩ or higher
E21-2 - Body ground	Below 1 Ω

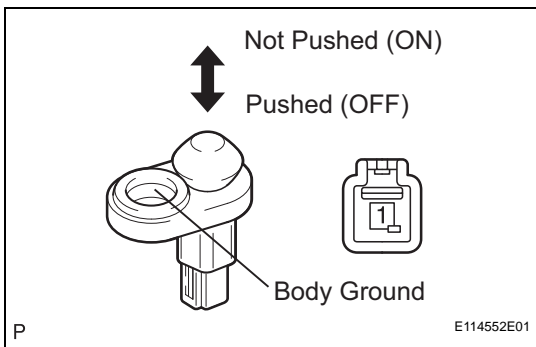
- (d) Reconnect the unlock warning switch connector.
- (e) Reconnect the main body ECU connector.

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

**OK**

**REPLACE MAIN BODY ECU**

**5 INSPECT FRONT DOOR COURTESY SWITCH ASSEMBLY (DRIVER SIDE)**



- (a) Remove the front door courtesy switch (driver side).
- (b) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - Body ground	Not pushed (ON)	Below 1 Ω
1 - Body ground	Pushed (OFF)	10 kΩ or higher

- (c) Reinstall the front door courtesy switch (driver side).

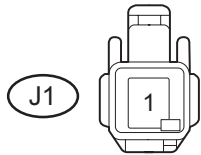
**NG** → **REPLACE FRONT DOOR COURTESY SWITCH ASSEMBLY (DRIVER SIDE)**

**OK**

## 6 CHECK HARNESS AND CONNECTOR (FRONT DOOR COURTESY SWITCH (DRIVER SIDE) - MAIN BODY ECU)

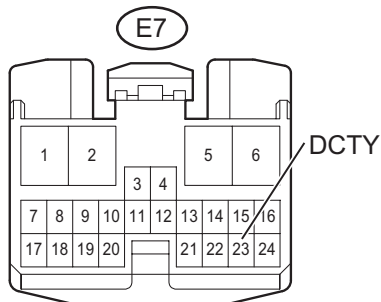
### Wire Harness Side:

Front Door Courtesy Switch Connector  
(Driver Side)



Front View

Main Body ECU Connector



Front View

B136069E01

- Disconnect the J1 front door courtesy switch (driver side) connector.
- Disconnect the E7 main body ECU connector.
- Measure the resistance.

### Standard resistance

Tester Connection	Specified Condition
J1-1 - E7-23 (DCTY)	Below 1 $\Omega$
J1-1 or E7-23 (DCTY) - Body ground	10 k $\Omega$ or higher

- Reconnect the front door courtesy switch connector.
- Reconnect the main body ECU connector.

NG

**REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

**REPLACE MAIN BODY ECU**