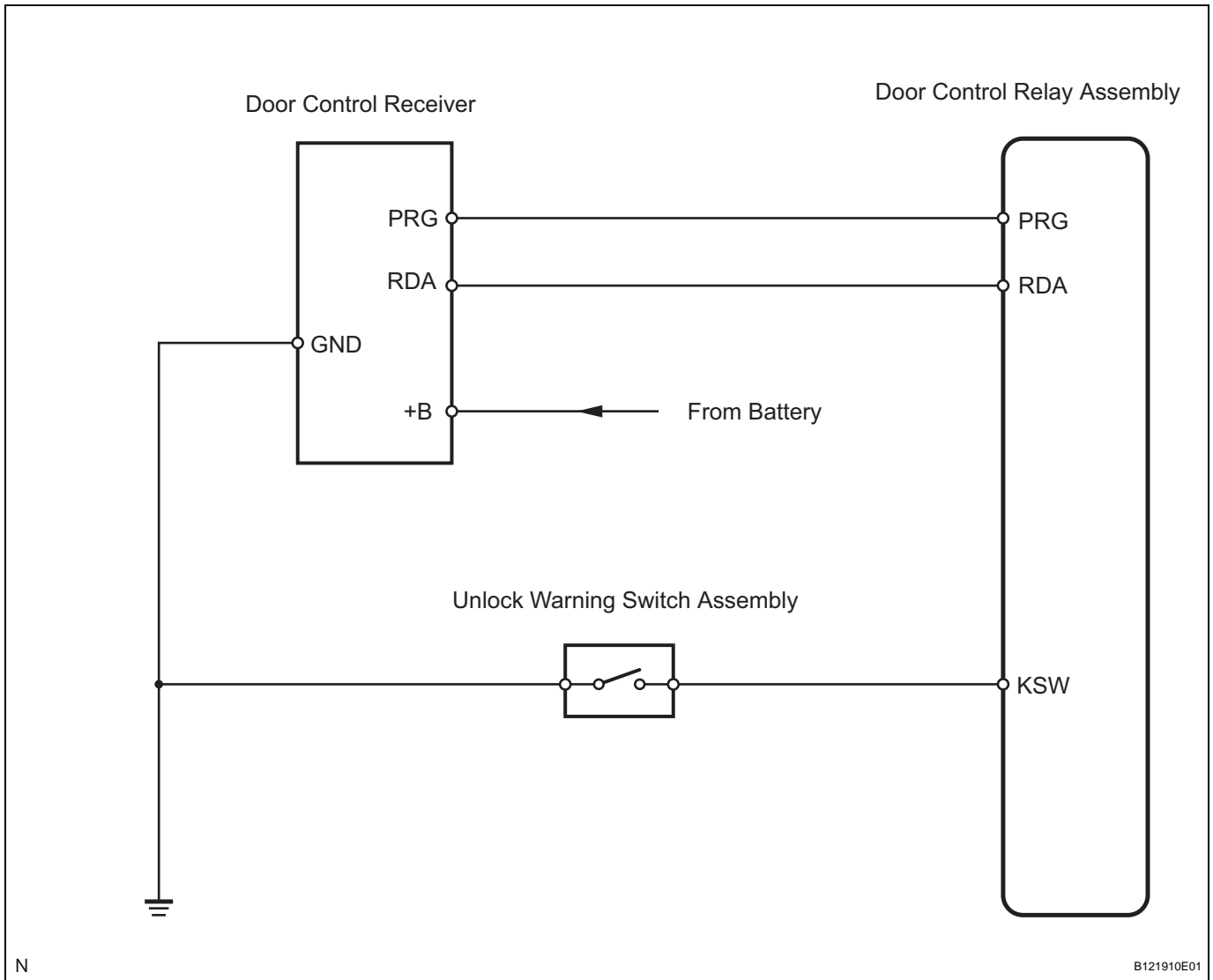


## Only Wireless Door Lock Control Function does not Operate

### DESCRIPTION

The door control receiver receives a signal from the transmitter and sends this signal to the door control relay. Then, the door control relay controls the door operation by sending a door LOCK / UNLOCK signal to each door lock motor.

### WIRING DIAGRAM



#### HINT:

The switches described below transmit signals and are built into the door control transmitter.

## 1 CHECK WIRELESS DOOR LOCK CONTROL FUNCTIONS

- (a) Check the wireless door lock control functions (see page [DL-47](#)).

OK

NORMAL

NG

**2 REPLACE TRANSMITTER BATTERY WITH NORMAL ONE**

- (a) After replacing the transmitter battery with a new or normal one, check that the wireless LOCK / UNLOCK operation is normal.

**OK:**

Wireless LOCK / UNLOCK operation is normal.

OK

REPLACE TRANSMITTER BATTERY

DL

NG

**3 CHECK WIRELESS DOOR LOCK CONTROL FUNCTIONS (STANDARD OPERATION)**

- (a) Check if UNLOCK-LOCK operates in standard operation.

**NOTICE:**

**Standardized test procedure: Press the transmitter switch for 1 second while pointing the transmitter at the driver side door outside handle from a distance of 1 m (3.28 ft.). The transmitter should be pointed directly at the door handle, i.e. at 90° angle to the vehicle body.**

NG

REPLACE DOOR CONTROL TRANSMITTER

OK

**4 CONFIRM ROOM LIGHT ILLUMINATES**

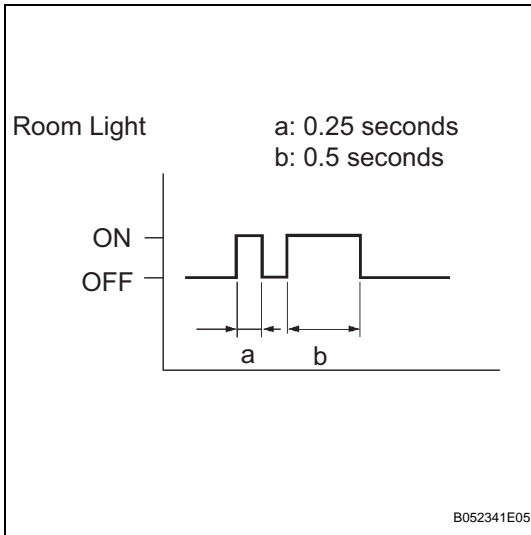
- (a) Check that the room light illuminates.

**HINT:**

When the room light does not illuminate, proceed to self-diagnostic mode after repairing the room light.

NEXT

## 5 SWITCH TO SELF-DIAGNOSTIC MODE



- (a) Switch to self-diagnostic mode by operating the ignition key cylinder.
- (1) Step 1: Ensure that the vehicle is in its initial condition (see page DL-47), insert the key into the ignition key cylinder and remove it.
  - (2) Step 2: Within 5 seconds of removing the key (step 1), insert the key into the ignition key cylinder (ignition switch OFF) and perform the following once: Turn the ignition switch to ON and return it to OFF.
  - (3) Step 3: Within 30 seconds of turning the ignition switch OFF (step 2), perform the following 9 times: Turn the ignition switch to ON and return it to OFF.

### NOTICE:

**If the operation has failed, the system will return to normal mode.**

### HINT:

- Turning the ignition switch ON after step 3 has been completed will end self-diagnostic mode.
  - Do not lock or unlock doors during self-diagnostic mode.
- (b) Check that the system has switched to self-diagnostic mode by the blinking frequency of the room light.

NG

Go to step 9

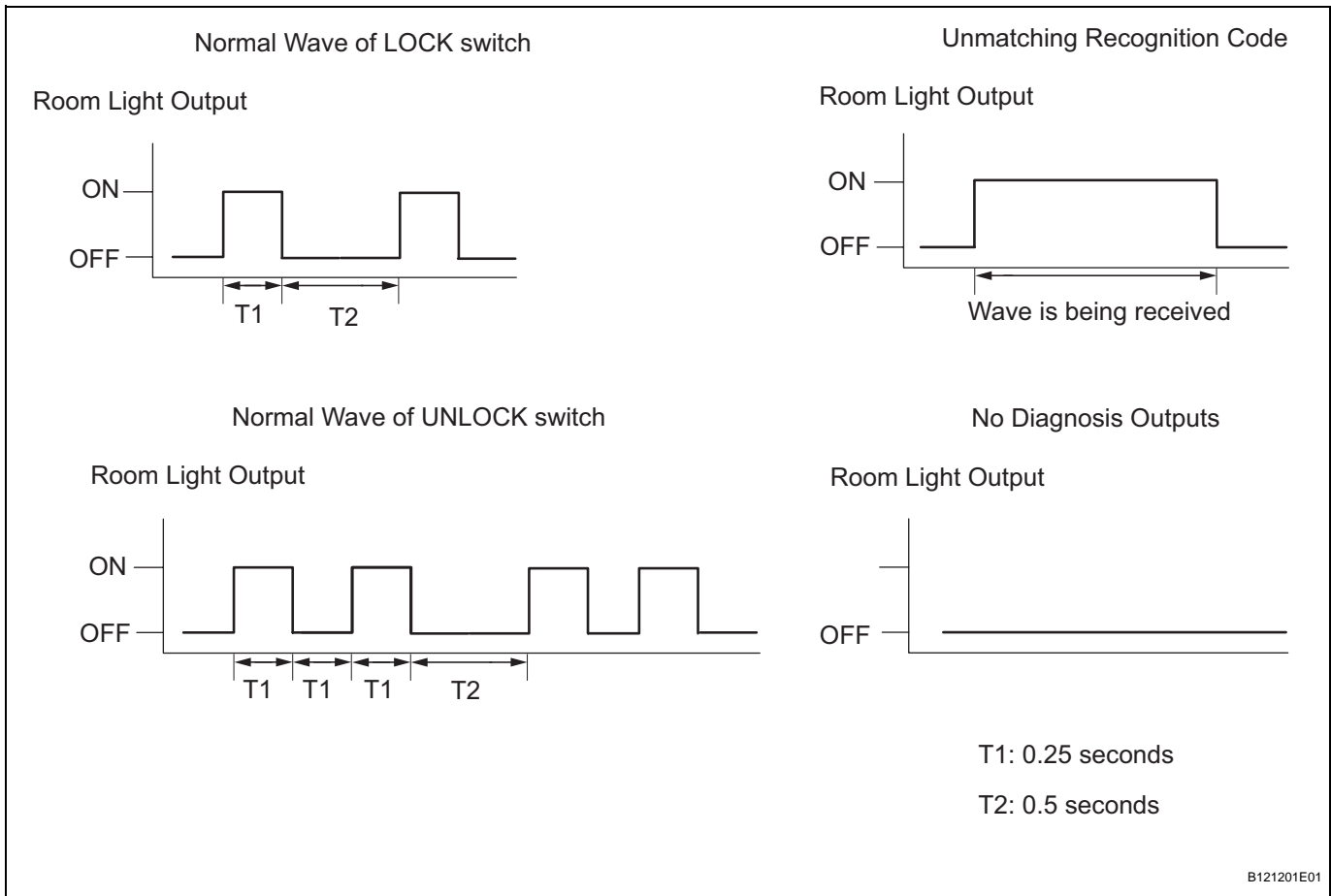
OK

## 6 CHECK BY SELF-DIAGNOSTIC MODE

- (a) Inspect the diagnosis outputs when the door control transmitter switch is held down (the diagnosis outputs can be checked with the outputs of the room light).

DL

DL



**Result**

Result	Proceed to
The normal wave of the door LOCK and UNLOCK switch (room light blinking)	A
An unmatching recognition code (room light ON)	B
No diagnosis outputs (room light OFF)	C

**A** → **REPLACE DOOR CONTROL RELAY ASSEMBLY**

**C** → **Go to step 8**

**B**

**7 REGISTER RECOGNITION CODE**

(a) Check that the system can switch to rewrite mode or add mode and whether a recognition code can be registered.

**NG** → **Go to step 15**

**OK**

**NORMAL (CARRY OUT INSPECTION OF FUNCTIONS)**

**8 CHECK RESPONSE OF DOOR CONTROL RECEIVER**

- (a) When a new or normal door control transmitter switch of the same type vehicle is held down, check that a diagnosis of unmatching recognition code is output.

NG

Go to step 12

OK

**REPLACE DOOR CONTROL TRANSMITTER**

DL

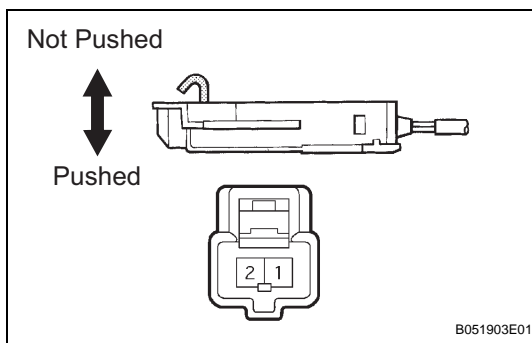
**9 CONFIRM INPUT METHOD OF SELF-DIAGNOSTIC MODE****Result**

Result	Proceed to
When the method for switching the system to self-diagnostic mode works.	A
When the method for switching the system to self-diagnostic mode does not work.	B

B

Go to step 5

A

**10 INSPECT UNLOCK WARNING SWITCH ASSEMBLY**

- (a) Measure the resistance of the switch.  
**Standard resistance**

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

NG

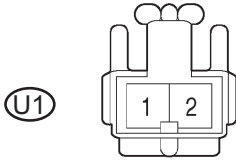
REPLACE UNLOCK WARNING SWITCH ASSEMBLY

OK

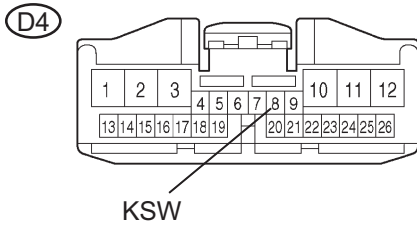
## 11 CHECK WIRE HARNESS (UNLOCK WARNING SWITCH - DOOR CONTROL RELAY AND BODY GROUND)

Wire Harness Side

Unlock Warning Switch



Door Control Relay Assembly



B069030E01

- Disconnect the U1 switch connector.
- Disconnect the D4 relay connector.
- Measure the resistance of the wire harness side connectors.

### Standard resistance

Tester Connection	Specified Condition
U1-2 - D4-8 (KSW)	Below 1 $\Omega$
U1-1 - Body ground	Below 1 $\Omega$

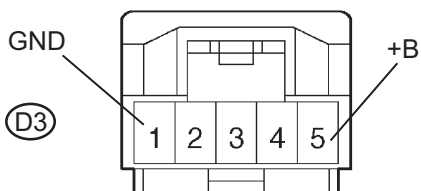
NG

**REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

## 12 CHECK WIRE HARNESS (DOOR CONTROL RECEIVER - BATTERY AND BODY GROUND)

Wire Harness Side



B059092E02

- Disconnect the D3 receiver connector.
- Measure the voltage of the wire harness side connector.

### Standard voltage

Tester Connection	Specified Condition
D3-5 (+B) - Body ground	10 to 14 V

- Measure the resistance of the wire harness side connector.

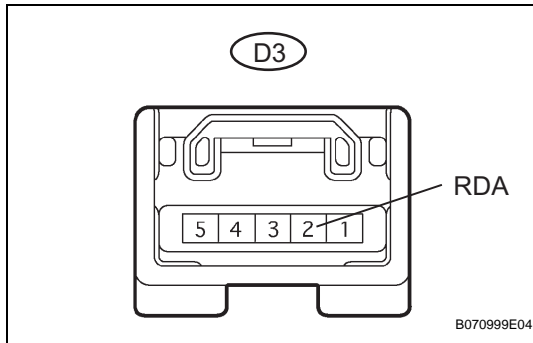
### Standard resistance

Tester Connection	Specified Condition
D3-1 (GND) - Body ground	Below 1 $\Omega$

NG

**REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

**13 CHECK DOOR CONTROL RECEIVER (OUTPUT)**

- (a) Reconnect the D3 receiver connector.  
 (b) Measure the voltage of the connector.

**Standard voltage**

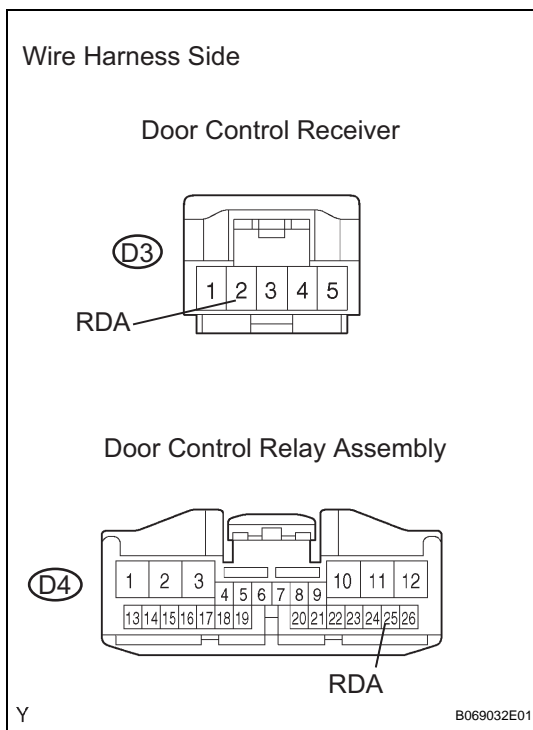
Tester Connection	Condition	Specified Condition
D3-2 (RDA) - Body ground	No key in ignition key cylinder, all doors closed and each transmitter switch OFF → ON	Below 1 V → Approximately 6 to 7 V → Below 1 V

NG

Go to step 15

DL

OK

**14 CHECK WIRE HARNESS (DOOR CONTROL RECEIVER - DOOR CONTROL RELAY)**

- (a) Disconnect the D3 receiver connector.  
 (b) Disconnect the D4 relay connector.  
 (c) Measure the resistance of the wire harness side connectors.

**Standard resistance**

Tester Connection	Specified Condition
D3-2 (RDA) - D4-25 (RDA)	Below 1 $\Omega$
D3-2 (RDA) - Body ground	10 k $\Omega$ or higher
D4-25 (RDA) - Body ground	10 k $\Omega$ or higher

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

**15 REPLACE DOOR CONTROL RECEIVER WITH NORMAL ONE**

- (a) After replacing the door control receiver with a new or normal one, check that the wireless LOCK / UNLOCK operation is normal.

OK:

Wireless LOCK / UNLOCK operation is normal.

NG

REPLACE DOOR CONTROL RELAY ASSEMBLY

OK

REPLACE DOOR CONTROL RECEIVER