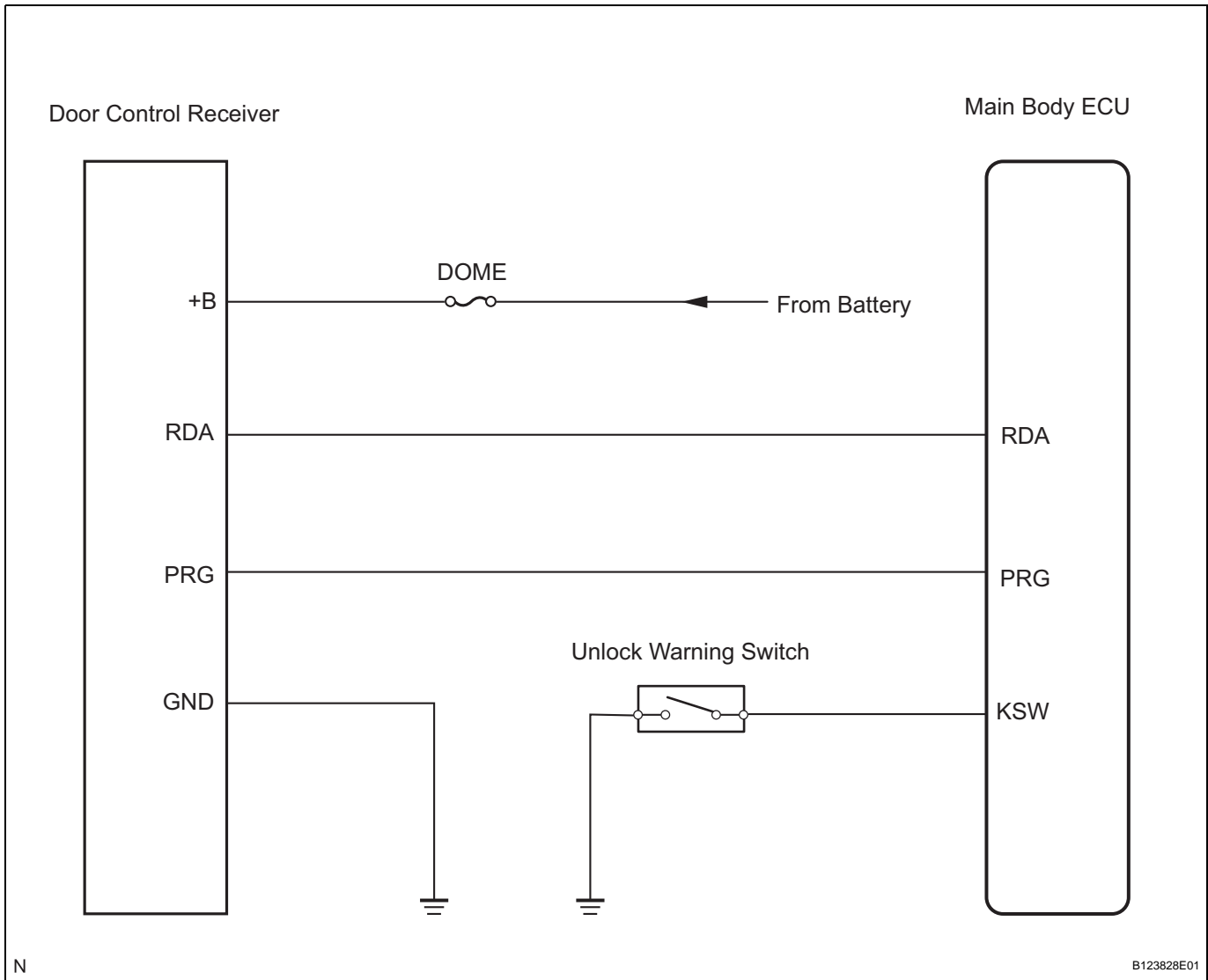


Only Wireless Control Function is Inoperative

DESCRIPTION

The door control receiver receives signals from the transmitter and sends these signals to the main body ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK WIRELESS DOOR LOCK CONTROL FUNCTIONS

OK:

Each function of wireless door lock control system operates normally using transmitter switches (see page [DL-54](#)).

OK

END

NG

2 REPLACE TRANSMITTER BATTERY

- (a) After replacing the transmitter battery, check that the doors can be locked and unlocked using the transmitter switches.

OK:

Doors can be locked and unlocked with transmitter.

OK

END (TRANSMITTER BATTERY DEFECTIVE)

NG

3 SWITCH TO SELF DIAGNOSTIC MODE

- (a) Switch to self-diagnostic mode by operating the ignition key cylinder.
- (1) Make sure the vehicle is in its initial condition. Then insert the key into the ignition key cylinder and remove it.
 - (2) Within 5 seconds of removing the key, insert the key into the ignition key cylinder (ignition switch OFF). Then turn the ignition switch ON and OFF.
 - (3) Within 30 seconds of turning the ignition switch OFF, perform the following operation 9 times: turn the ignition switch ON and OFF.

NOTICE:

If the system cannot enter self-diagnostic mode, the system returns to normal mode.

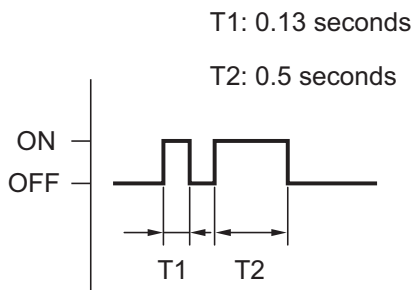
HINT:

- Turning the ignition switch ON after the above operations have been completed ends 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 checking the wireless door lock buzzer sound.

OK:

Buzzer pattern is same as illustration on left.

Buzzer Output:

DL

NG

Go to step 8

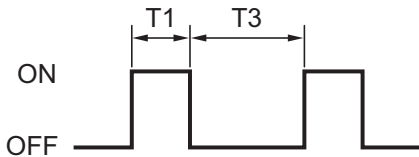
OK

4 CHECK BY SELF DIAGNOSTIC MODE

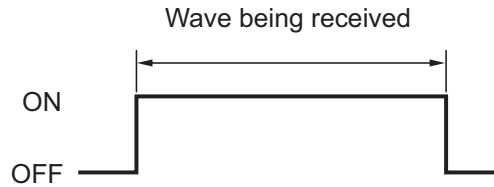
- (a) Check the diagnostic outputs when the door control transmitter switch is held down. The diagnostic outputs can be checked by the wireless door lock buzzer sound.

Buzzer Output:

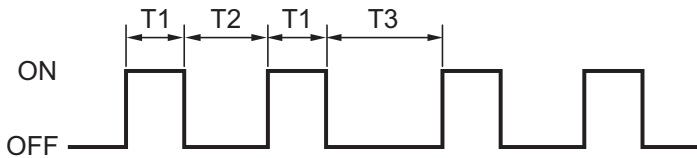
Normal Wave (LOCK Switch):



Mismatched Recognition Code:



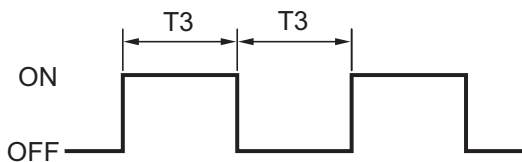
Normal Wave (UNLOCK Switch):



No Diagnosis Output:



Normal Wave (PANIC Switch):



- T1: 0.13 seconds
- T2: 0.25 seconds
- T3: 0.50 seconds

B133371E01

Result

Result	Proceed to
Unmatching recognition code is output	A
Normal waves (buzzer patterns) for LOCK and UNLOCK switches are output	B
No diagnosis outputs	C

DL



A

5 REGISTER RECOGNITION CODE

- (a) Check that the system can be switched to rewrite mode or add mode, and that a recognition code can be registered.

OK:

Recognition code can be registered.



OK

END

6 CHECK RESPONSE OF DOOR CONTROL RECEIVER

- (a) When a new or normally functioning door lock control transmitter switch for the same vehicle type is held down, check that an unmatching recognition code is output.

OK:

Unmatching recognition code is output.



NG

7 REPLACE DOOR CONTROL RECEIVER

- (a) After replacing the door control receiver, check that the doors can be locked and unlocked by using the transmitter LOCK and UNLOCK switches.

OK:

Doors can be locked and unlocked with transmitter.



OK

END

8 CONFIRM PROCEDURES TO ENTER SELF DIAGNOSTIC MODE

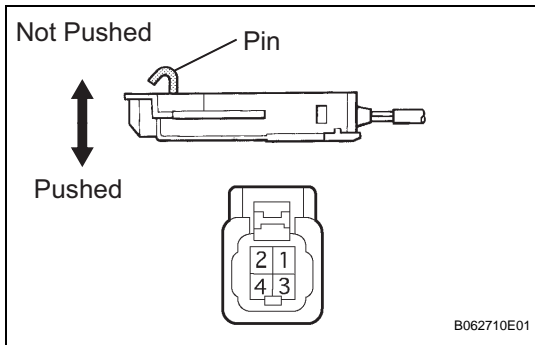
Result

Result	Proceed to
Self-diagnostic mode entry successful	A
Self-diagnostic mode entry unsuccessful	B

B → **Go to step 3**

A

9 INSPECT UNLOCK WARNING SWITCH ASSEMBLY



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

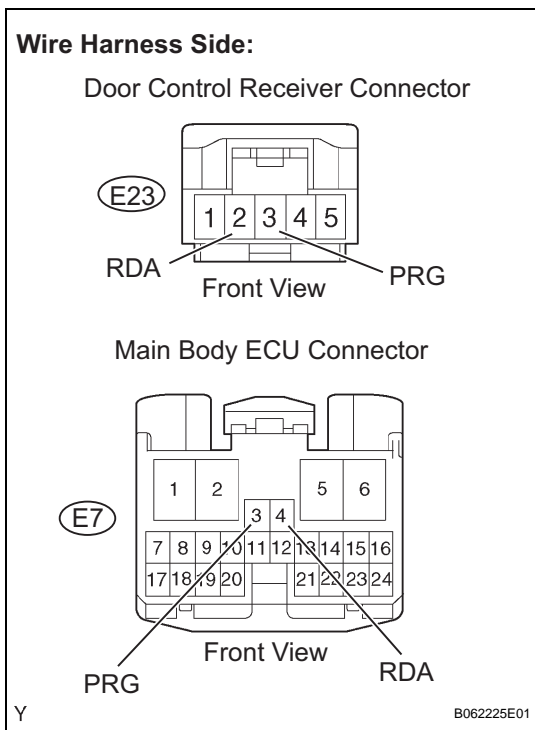
Standard resistance

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

NG → **REPLACE UNLOCK WARNING SWITCH ASSEMBLY**

OK

10 CHECK HARNESS AND CONNECTOR (DOOR CONTROL RECEIVER - MAIN BODY ECU)



- (a) Disconnect the E7 main body ECU connector.
- (b) Disconnect the E23 door control receiver connector.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E7-4 (RDA) - E23-2 (RDA)	Below 1 Ω
E7-4 (RDA) or E23-2 (RDA) - Body ground	10 kΩ or higher
E7-3 (PRG) - E23-3 (PRG)	Below 1 Ω
E7-3 (PRG) or E23-3 (PRG) - Body ground	10 kΩ or higher

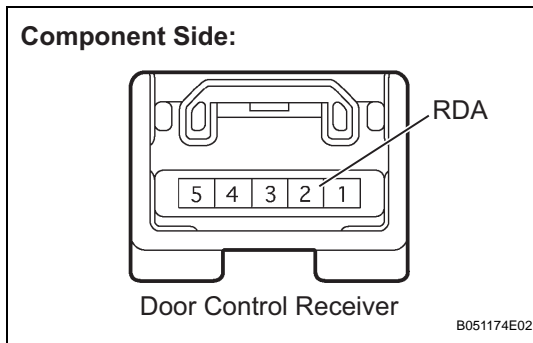
- (d) Reconnect the main body ECU connector.
- (e) Reconnect the door control receiver connector.

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

DL

Y

OK

11 CHECK DOOR CONTROL RECEIVER (OUTPUT)

- (a) Measure the voltage of the connector.
Standard voltage

Tester Connection	Condition	Specified Condition
E23-2 (RDA) - Body ground	Transmitter switch ON→OFF (No key in ignition key cylinder, all doors closed)	Below 1V → Pulse generation → Below 1V

OK

REPLACE MAIN BODY ECU

NG

12 REPLACE DOOR CONTROL TRANSMITTER MODULE

- (a) Check that the doors can be locked and unlocked by using the transmitter LOCK and UNLOCK switches.

OK:

Doors can be locked and unlocked with transmitter.

NG

REPLACE DOOR CONTROL RECEIVER

OK

END (DOOR CONTROL TRANSMITTER MODULE DEFECTIVE)

DL