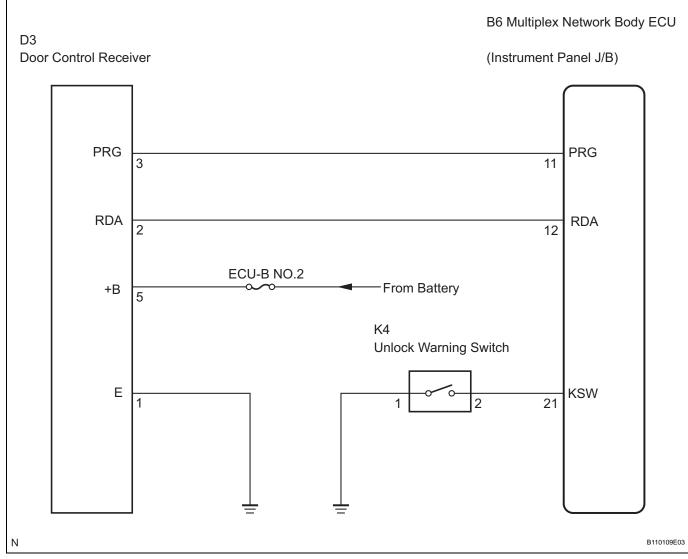
Only Wireless Control Function is Inoperative

DESCRIPTION

The door control receiver receives a signal from the transmitter and sends this signal to the multiplex network body ECU. The multiplex network body ECU then controls operation of the door locks, power windows and sliding roof. The power back door ECU also causes the power back door to open or close when it receives a signal from the transmitter via the door control receiver and multiplex network body ECU.

WIRING DIAGRAM



1 CHECK WIRELESS DOOR LOCK CONTROL FUNCTION

(a) Check the wireless door lock control system (See page DL-63).



DL

ОК

END

2 CHECK DOOR CONTROL TRANSMITTER (LED)

(a) Check that the door control transmitter's LED comes on 3 times when the switch is pressed 3 times.

OK:

The door control transmitter's LED comes on 3 times when the switch is pressed 3 times.

NG

Go to step 8

OK

3 CHECK WIRELESS DOOR LOCK CONTROL FUNCTION (NORMAL OPERATION)

(a) Check that UNLOCK-LOCK operates in normal operation.

HINT:

Standardized test procedure: Press the transmitter switch for 1 second, directing the beam to the driver's 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 TRANSMITTER SUB-ASSEMBLY MODULE SET DOOR CONTROL

OK

4 CHECK WIRELESS DOOR LOCK BUZZER

(a) Check if the wireless door lock buzzer sounds.

Result

Condition	Proceed To
Buzzer sounds	A
Buzzer does not sound	Go to "No Answer-Back (Hazard Warning Light and Wireless Door Lock Buzzer)" (See page DL-93)



5 SWITCH TO SELF-DIAGNOSTIC MODE

- (a) Switch to self-diagnostic mode using the intelligent tester.
 - (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the ignition switch to the ON position and turn the intelligent tester main switch on.



HINT:

Refer to the intelligent tester operator's manual for further details.

- (b) Switch to self-diagnostic mode by performing the following:
 - (1) Put the vehicle under the initial condition (See page DL-63). (Procedure "A")
 - (2) Insert the key into the ignition key cylinder and remove it. (Procedure "B")
 - (3) Within 5 seconds after the key is removed, insert the key into the ignition key cylinder again. (Procedure "C")
 - (4) Turn the ignition switch to the ON position and turn it back to the LOCK position. (Procedure "D")
 - (5) Within 30 seconds of turning the ignition switch off again, perform the following 9 times: Turn the ignition switch to the ON position and turn it back to the LOCK position. (Procedure "E") HINT:
 - Turning the ignition switch to the ON position after Procedure "E" has been completed will end the self-diagnostic mode.
 - Do not lock or unlock doors during the selfdiagnostic mode.

NOTICE:

If the self-diagnostic mode cannot be achieved, the system will return to normal mode.

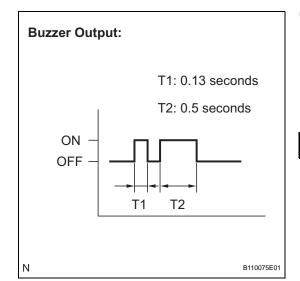
(c) Check that the system has switched to self-diagnostic mode by checking the sound of the wireless door lock buzzer.

OK:

The sound pattern of the wireless door lock buzzer should be the same as the patterns shown in the timing chart on the left.

NG

Go to step 10

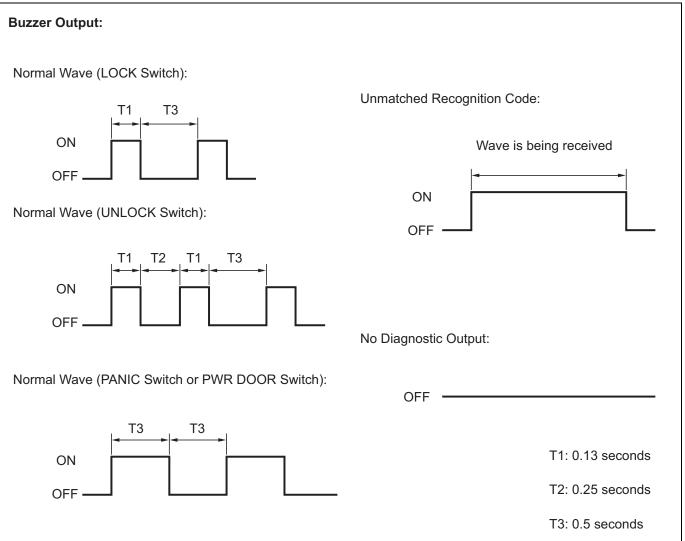


OK

6

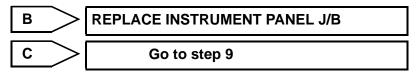
CHECK BY SELF-DIAGNOSTIC MODE

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



Result

Condition	Proceed To
Unmatched recognition code is output	A
Normal waves patterns from the wireless door lock buzzer are output for LOCK, UNLOCK, PANIC and PWR DOOR	В
No diagnostic outputs are recorded	С





7 REGISTER RECOGNITION CODE

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

OK:

The system can switch to the rewrite mode or add mode, and a recognition code can be registered.



B110076F03

NG Go to step 17

OK

END

- 8 CHECK TRANSMITTER BATTERY
 - (a) Replace the existing battery with a new or normally functioning one and check that the transmitter LED comes on 3 times when the switch is pressed 3 times.

NG REPLACE TRANSMITTER SUB-ASSEMBLY MODULE SET DOOR CONTROL

OK

REPLACE TRANSMITTER BATTERY

9 CHECK DOOR CONTROL RECEIVER

DL

(a) Press and hold down any switch on a new or normal door control transmitter for the same vehicle type and check that an unmatched recognition code is output.

OK:

Unmatched recognition code is output.

NG Go to step 14

OK

REPLACE TRANSMITTER SUB-ASSEMBLY MODULE SET DOOR CONTROL

10 CONFIRM INPUT METHOD FOR SELF-DIAGNOSTIC MODE

(a) Confirm input method for self-diagnostic mode.

Result

Condition	Proceed To
Method for changing system self-diagnostic mode works	A
Method for changing system self-diagnostic mode does not work	В

B Go to step 5

_ A _

11 READ VALUE OF INTELLIGENT TESTER (UNLOCK WARNING SWITCH)

(a) Connect the intelligent tester to the DLC3.

- (b) Turn the ignition switch to the ON position and turn the intelligent tester main switch on.
- (c) Select the item below in the DATA LIST and read the display on the intelligent tester.

BODY:

Item (Display)	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
KEY UNLK WRN SW	Unlock warning switch / ON or OFF	ON: Ignition key is inserted OFF: Ignition key is not inserted	-

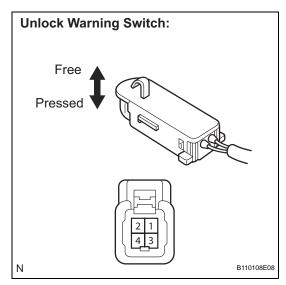
OK:

When the ignition key is operated, the display changes as shown above.

ok >	Go to step 14	

NG /

12 INSPECT UNLOCK WARNING SWITCH



- (a) Disconnect the unlock warning switch connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
1 - 2	Switch pressed (Key set)	Below 1 Ω
1 - 2	Switch free (Key removed)	10 kΩ or higher



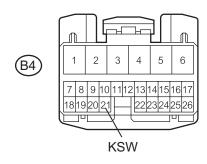
REPLACE UNLOCK WARNING SWITCH

ОК



13 CHECK HARNESS AND CONNECTOR (MULTIPLEX NETWORK BODY ECU - UNLOCK WARNING SWITCH)

Multiplex Network Body ECU (Wire Harness Side) Connector Front View:



Unlock Warning Switch (Wire Harness Side) Connector Front View:



- (a) Disconnect the multiplex network body ECU (B4) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

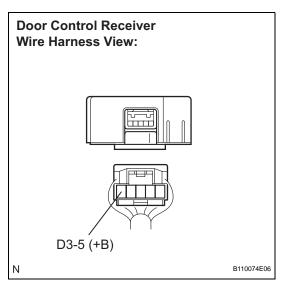
Tester Connection	Condition	Specified Condition
B4-21 (KSW) - K4-2	Always	Below 1 Ω
B4-21 (KSW) - Body ground	Always	10 kΩor higher
K4-1 - Body ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

ОК

14 INSPECT DOOR CONTROL RECEIVER (+B TERMINAL)



- (a) Disconnect the door control receiver connector.
- (b) Measure the voltage according to the value(s) in the table below.

Standard voltage

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

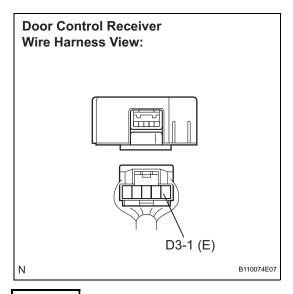
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (+B CIRCUIT)



OK

15 INSPECT DOOR CONTROL RECEIVER (E TERMINAL)



(a) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D3-1 (E) - Body ground	Always	Below 1 Ω

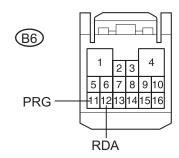
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (E CIRCUIT)

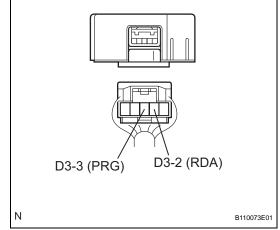


16 CHECK HARNESS AND CONNECTOR (MULTIPLEX NETWORK BODY ECU - DOOR CONTROL RECEIVER)

Multiplex Network Body ECU (Wire Harness Side) Connector Front View:



Door Control Receiver Wire Harness View:



- (a) Disconnect the multiplex network body ECU (B6) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
B6-11 (PRG) - D3-3 (PRG)	Always	Below 1 Ω
B6-11 (PRG) - Body ground	Always	10 kΩor higher
B6-12 (RDA) - D3-2 (RDA)	Always	Below 1 Ω
B6-12 (RDA) - Body ground	Always	10 kΩor higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

ОК

17 REPLACE DOOR CONTROL RECEIVER

(a) Replace the door control receiver with normal one. **OK:**

The system returns to normal operation.

NG

REPLACE INSTRUMENT PANEL J/B

OK

REPLACE DOOR CONTROL RECEIVER