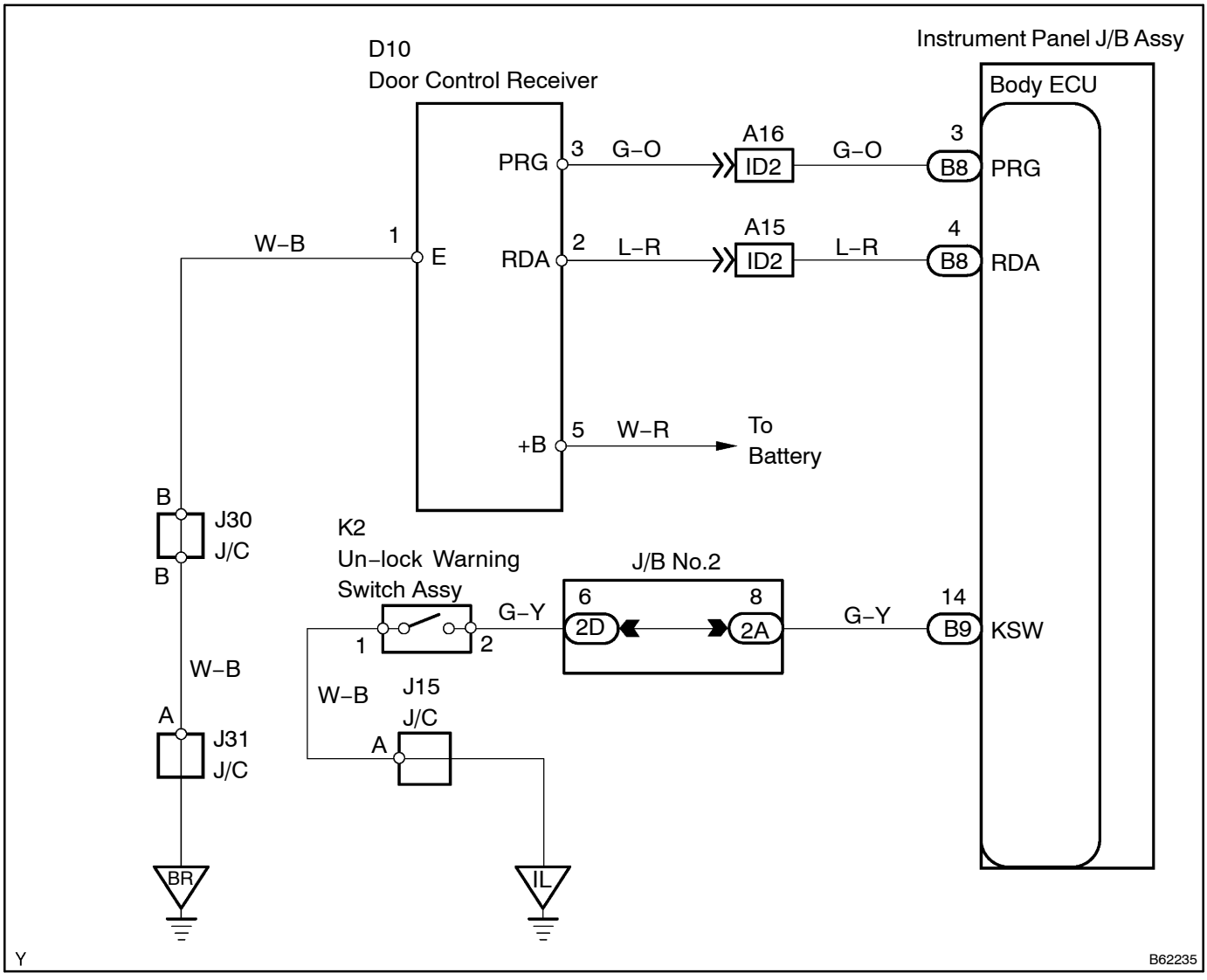
ONLY WIRELESS CONTROL FUNCTION DOES NOT OPERATE (PREPARE NEW OR NORMAL TRANSMITTER OF THE SAME TYPE VEHICLE)

CIRCUIT DESCRIPTION

The door control receiver receives a signal from the transmitter and sends this signal to the body ECU. Then, the body ECU sends a door LOCK/UNLOCK signal to each door lock motor to control it.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
The switch described in this text is a switch for transmitting signals, which is built in the door control transmitter.

1	PUT VEHICLE IN INITIAL CONDITION (See page 73–21)

2	CHECK THAT TRANSMITTER LED LIGHTS UP

(a) Check that the transmitter LED lights up 3 times when the switch is pressed 3 times.

OK	Go to step 4

NG

3	SIMPLE CHECK TRANSMITTER BATTERY

(a) After the transmitter battery is replaced with a new or normal one, check that the transmitter LED lights up 3 times when the switch is pressed 3 times.

NG	REPLACE TRANSMITTER SUB–ASSY MODULE SET DOOR CONTROL

OK

REPLACE TRANSMITTER BATTERY

4	CHECK WIRELESS DOOR LOCK FUNCTIONS

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

NOTICE:
Standard operation, herein, means operation pressing the transmission switch for 1 second, directing the transmitter to the vehicle in a location that is 100 cm (39.37 in.) away from the driver side door outside handle in the right direction.

OK	NORMAL

NG

5	CONFIRM ROOM LAMP ON

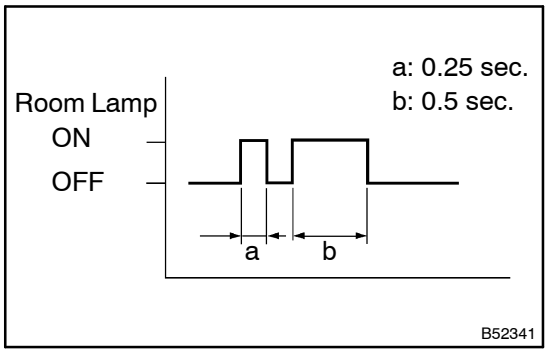
(a) Check that the room lamp comes on.

HINT:
When the room lamp does not come on, proceed to the self–diagnostic mode after repairing of the room lamp.

6	SWITCH TO SELF–DIAGNOSTIC MODE

(a) Switch to self–diagnostic mode by operating the ignition key cylinder.
  (1) Insert the key into the ignition key cylinder and remove it under the initial vehicle condition (See page 73–22).
  (2) Within 5 seconds after the above step, insert the key into the ignition key cylinder and turn the ignition switch ON → OFF once.
  (3) Within 30 seconds after the above step, turn the ignition switch ON → OFF 9 times.

NOTICE:
If operation has failed, the system will return to the normal mode.
HINT:
- Operation of the ignition switch OFF → ON will end the self–diagnostic mode.
- Do not lock or unlock doors during the self–diagnostic mode.



(b) Check that the system has switch to self–diagnostic mode by the blinks of the room lamp.

NG → **Go to step 11**

OK

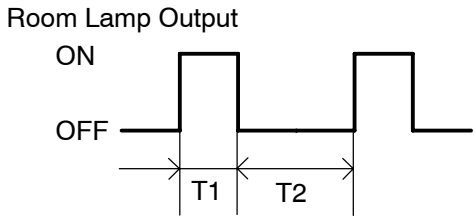
7	CHECK BY SELF–DIAGNOSTIC MODE

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

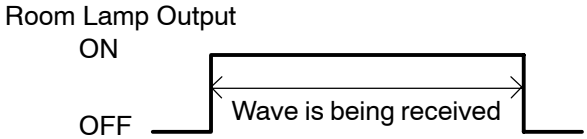
HINT:

- In the case of a reception of the normal wave of the LOCK or UNLOCK (room light blinking), go to step A.
- In the case of an unmatching recognition code (room lamp ON), go to step B.
- In the case of no diagnosis outputs (room lamp OFF), go to step C.

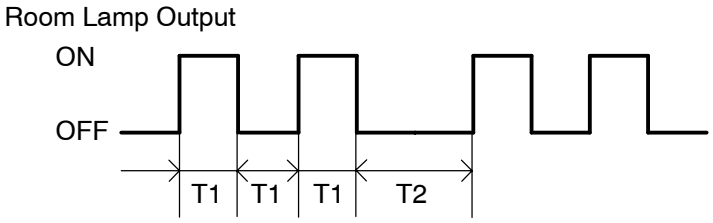
Normal wave of LOCK switch



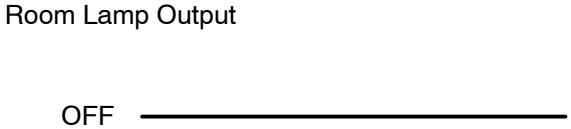
Unmatching recognition code



Normal wave of UNLOCK switch



No diagnosis outputs



T1: 0.25 sec.
T2: 0.5 sec.

A	REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY
C	Go to step 9

B

8	REGISTER RECOGNITION CODE

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

NG → Go to step 10

OK

NORMAL (CARRY OUT INSPECTION OF FUNCTIONS)

9	CHECK RESPONSE OF DOOR CONTROL RECEIVER

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

NG → Go to step 14

OK

REPLACE TRANSMITTER SUB–ASSY MODULE SET DOOR CONTROL

10	REPLACE DOOR CONTROL RECEIVER WITH NORMAL ONE

NG → REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY

OK

REPLACE DOOR CONTROL RECEIVER

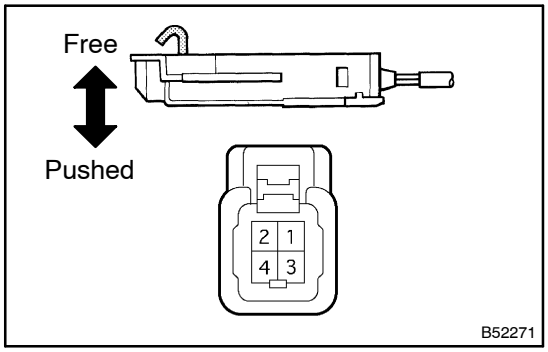
11	CONFIRM INPUT METHOD OF SELF–DIAGNOSTIC MODE

(a) When the method for switching the system to self–diagnostic mode works, proceed to A.
(b) When the method for switching the system to self–diagnostic mode does not work, proceed to B.

B → Go to step 6

A

12	INSPECT UN–LOCK WARNING SWITCH ASSY



(a) Inspect the continuity of the switch.
Standard:

Terminal No.	Condition	Specified Condition
1 ⇔ 2	Switch free (Key removed)	No continuity
	Switch pushed (Key set)	Continuity

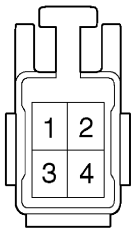
NG → **REPLACE UN–LOCK WARNING SWITCH ASSY**

OK

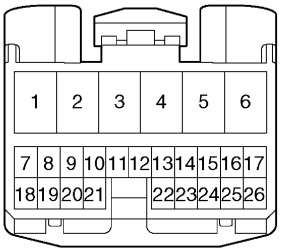
13	CHECK WIRE HARNESS (UN–LOCK WARNING SWITCH ⇔ INSTRUMENT PANEL JUNCTION BLOCK (BODY ECU)) (UN–LOCK WARNING SWITCH ⇔ BODY GROUND)

Wire Harness Side

K2
Un–lock Warning Switch



B9
Instrument Panel J/B Assy



(a) Disconnect the K2 warning switch connector.
(b) Disconnect the B9 J/B connector.
(c) Check the continuity between the wire harness side connectors.
Standard:

Terminal No.	Specified Condition
K2–2 ⇔ B9–14	Continuity

(d) Check the continuity between the K2 warning switch connector and body ground.
Standard:

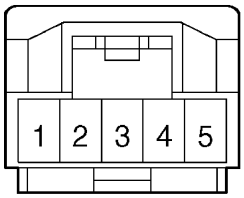
Terminal No.	Specified Condition
K2–1 ⇔ Body ground	Continuity

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

OK

14 CHECK DOOR CONTROL RECEIVER (POWER SOURCE AND GROUND)

Wire Harness Side



D10
Door Control Receiver

B59092

(a) Disconnect the D10 receiver connector.
(b) Check the voltage or continuity between the D10 receiver wire harness side connector and body ground.

Standard:

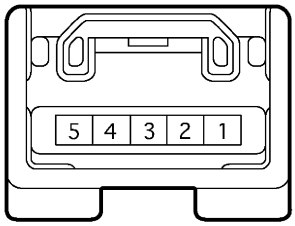
Symbols (Terminal No.)	Specified Condition
+B (D10–5) ⇔ Body ground	10 – 14 V
E (D10–1) ⇔ Body ground	Continuity

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

OK

15 CHECK DOOR CONTROL RECEIVER (OUTPUT)

Door Control Receiver



B51174

(a) Reconnect the D10 receiver connector, and check the voltage between the terminal and body ground.

Standard:

Symbols (Terminal No.)	Condition	Specified Condition
RDA (D10–2) ⇔ Body ground	Ignition switch OFF, no key in ignition key cylinder, all doors closed and each transmitter switch OFF → ON	Below 1 V → Approx. 6 – 7 V → Below 1 V

NOTICE:
Check the output voltage with the bar graph display.

NG → **Go to step 17**

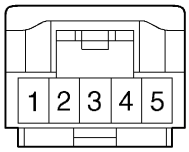
OK

16	CHECK WIRE HARNESS (DOOR CONTROL RECEIVER ⇔ INSTRUMENT PANEL JUNCTION BLOCK (BODY ECU)) (DOOR CONTROL RECEIVER OR INSTRUMENT PANEL JUNCTION BLOCK (BODY ECU) ⇔ BODY GROUND)

Wire Harness Side

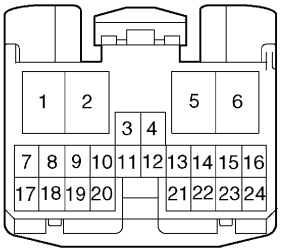
D10

Door Control Receiver



B8

Instrument Panel J/B Assy



Y B62225

(a) Disconnect the D10 receiver connector.
(b) Disconnect the B8 J/B connector.
(c) Check the continuity between the wire harness side connectors.

Standard:

Symbols (Terminal No.)	Specified Condition
RDA (D10–2) ⇔ RDA (B8–4)	Continuity

(d) Check the continuity between the D10 receiver connector or B8 J/B connector and body ground.

Standard:

Symbols (Terminal No.)	Specified Condition
RDA (D10–2) ⇔ Body ground	No continuity
RDA (B8–4) ⇔ Body ground	No continuity

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

OK

17	REPLACE DOOR CONTROL RECEIVER WITH NORMAL ONE

OK → **REPLACE DOOR CONTROL RECEIVER**

NG

REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY