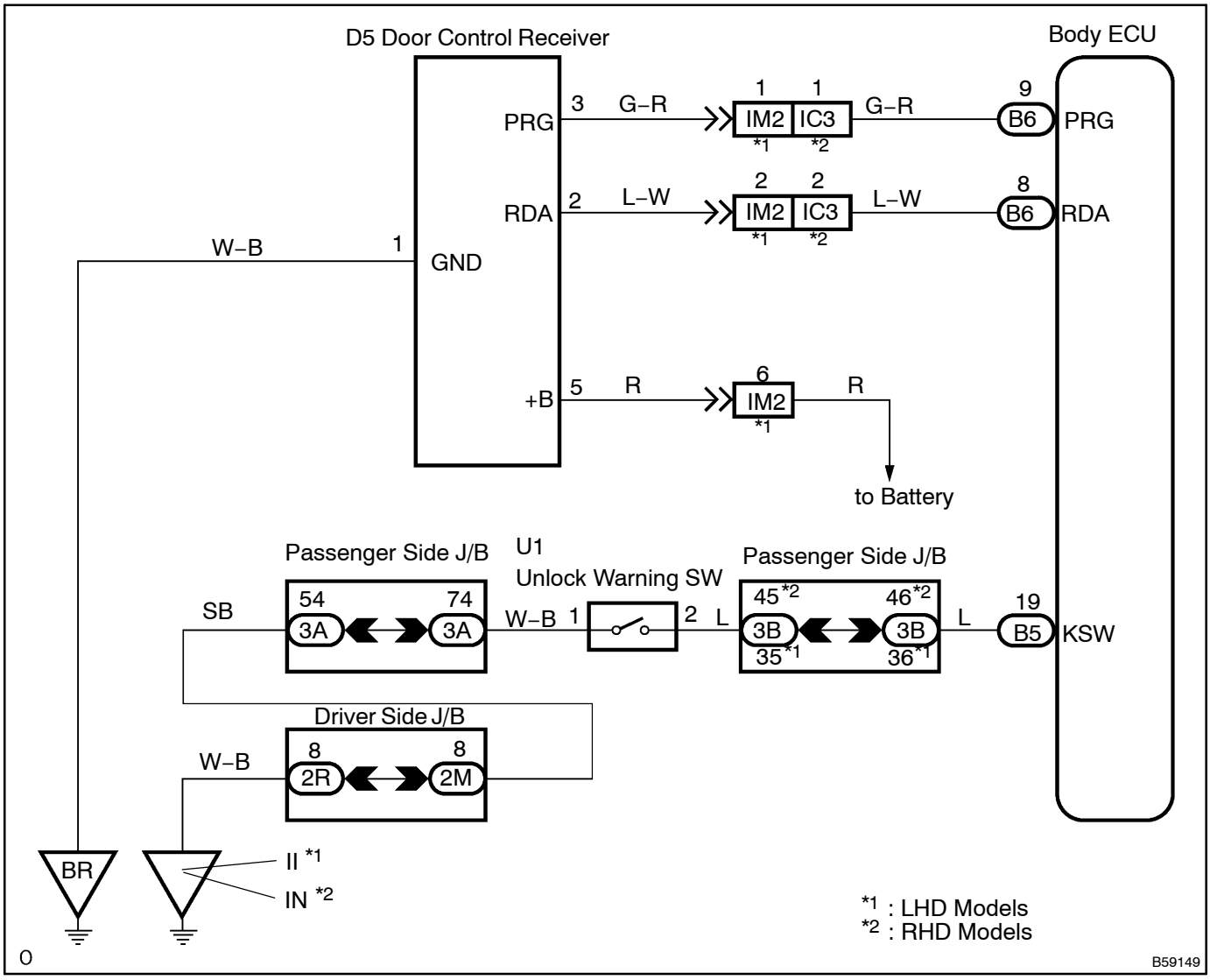
ONLY WIRELESS CONTROL FUNCTION IS INOPERATIVE (PREPARE NEW OR NORMAL TRANSMITTER OF SAME TYPE VEHICLE)

CIRCUIT DESCRIPTION

Door control receiver receives a signal from the transmitter and sends the signal to the instrument panel J/B (body ECU). The instrument panel J/B (body ECU) sends a door LOCK/UNLOCK signal to each door lock actuator to control it. Then finally proceed with the troubleshooting. Also, in case that the wire harness between the instrument panel J/B (body ECU) and door control receiver has been short–circuited, diagnostic code 42 will be output and wireless control will not function.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
A switch described in this text indicates the switch for sending, which is built–in the door control transmitter.

1	CHECK WIRELESS DOOR LOCK FUNCTIONS (See page73–8)

OK → NORMAL

NG

2	CHECK TRANSMITTER LED LAMP ON

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

OK → Go to step 4

NG

3	CHECK TRANSMITTER BATTERY SIMPLY

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

OK → REPLACE TRANSMITTER BATTERY

NG → REPLACE TRANSMITTER SUB–ASSY MODULE SET DOOR CONTROL

4	CHECK WIRELESS DOOR LOCK FUNCTIONS

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

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

NG → REPLACE TRANSMITTER SUB–ASSY MODULE SET DOOR CONTROL

OK

5	CONFIRM ROOM LIGHT ON

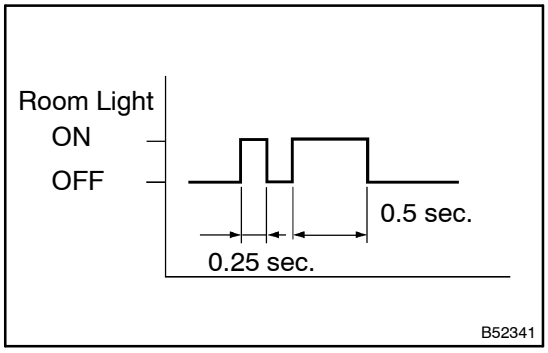
(a) Check that the room light comes on.

HINT:
When the light does not come on, proceed with the self–diagnostic mode after the repair of the room light.

6	ENTER INTO SELF–DIAGNOSTIC MODE

(a) Enter into the self–diagnostic mode via an operation of the ignition switch lock cylinder.
  (1) Insert the key into the ignition switch lock cylinder under the vehicle's initial condition, and then carry out the operation of the ignition switch assembly OFF→ON→OFF once within 5 seconds after the key pulled out.
  (2) Within 30 seconds after the ignition switch assembly turned OFF, carry out the operation of the ignition switch assembly OFF→ON→OFF 9 times.

NOTICE:
It will enter into the normal mode if even one of the above conditions has not been met.
HINT:
- Operation of the ignition switch assembly OFF→ON will finish the self–diagnostic mode.
- Do not carry out LOCK/UNLOCK operations during the self–diagnostic mode.



(b) Check that it has entered into the self–diagnostic mode by blinks of the room light.

NG → **Go to step 11**

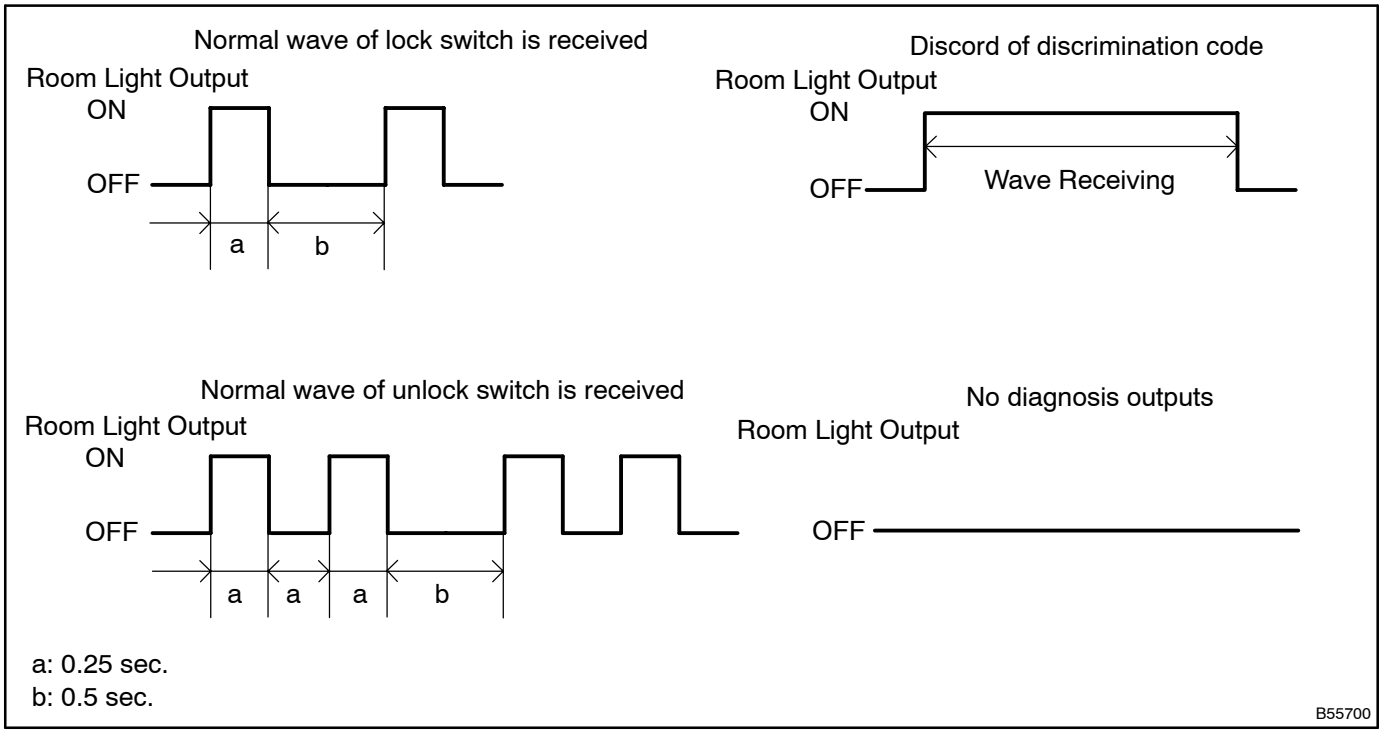
OK

7	CHECK BY SELF–DIAGNOSTIC MODE

(a) Inspect the outputs of the diagnosis when the door control transmitter switch has been kept pressing (Check of diagnosis outputs can be made by output of the room light.).

HINT:

- In case of a reception of the normal wave of the LOCK/UNLOCK switch (room light blinking), go to step "A".
- In case of discord of discrimination code (room lights on), go to step "B".
- In case of no diagnosis outputs (room light off), go to step "C".



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

B

8	REGISTRATION OF RECOGINITION CODE

(a) Check that it is possible to enter into the rewrite mode to the add mode or the discrimination code registration, and also registration is possible.

OK	NORMAL (CARRY OUT INSPECTION OF FUNCTIONS)
NG	Go to step 10

9	CHECK RESPONSE OF DOOR CONTROL RECEIVER

(a) When a new normal door control transmitter switch for the same type vehicle is kept pressing, check if a diagnosis of no correspondence in the recognition code is output.

OK → **REPLACE TRANSMITTER SUB–ASSY MODULE SET DOOR CONTROL**

NG → **Go to step 14**

10	EXCHANGE DOOR CONTROL RECEIVER WITH NORMAL ONE

OK → **REPLACE DOOR CONTROL RECEIVER**

NG → **REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY**

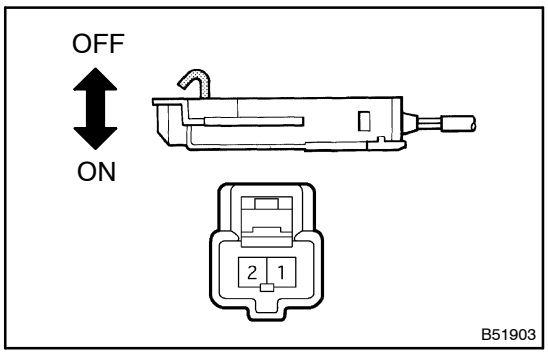
11	CONFIRM INPUT METHOD OF SELF–DIAGNOSTIC MODE

(a) When the input method of the self–diagnostic mode is correct, proceed to ”A”.
(b) When the input method of the self–diagnostic mode is incorrect, proceed to ”B”.

B → **Go to step 6**

A

12	INSPECT UN–LOCK WARNING SWITCH ASSY



(a) Inspect the continuity of the key unlock warning switch .
Standard:

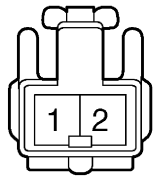
Terminal No.	Condition	Specified condition
1 ⇔ 2	Switch OFF (Key removed)	No continuity
	Switch ON (Key set)	Continuity

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

OK

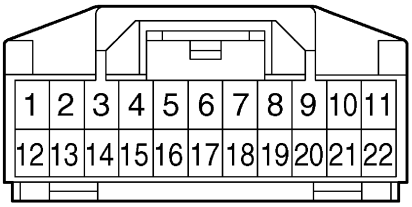
13 CHECK WIRE HARNESS

Wire Harness Side



U1
Un lock Warning Switch

B5
Instrument Panel J/B(Body ECU)



B58961

B59139

(a) Disconnect the B5 body ECU and U1 unlock warning switch connectors.
(b) Check the continuity between the disconnected connectors.

Standard:

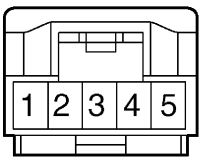
Terminal No.	Specified condition
B5–19 ⇔ U1–2	Continuity
U1–1 ⇔ Body ground	Continuity

OK → **REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY**

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

14 CHECK DOOR CONTROL RECEIVER

Wire Harness Side



D5
Door Control Receiver

B59151

(a) Disconnect the D5 control receiver connector.
(b) Check the voltage and continuity between the disconnected connector and the body ground.

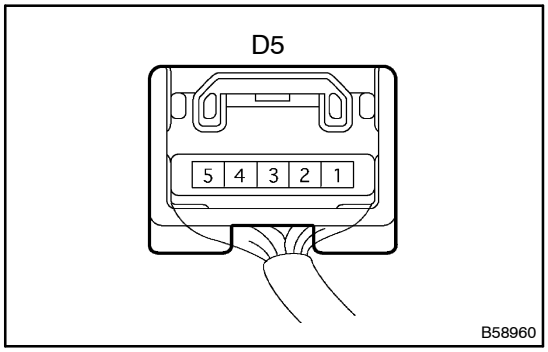
Standard:

Symbols (Terminal No.)	Specified condition
+B (D5–5) – Body ground	10 – 14 V
GND (D5–1) – Body ground	Continuity

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

OK

15 CHECK DOOR CONTROL RECEIVER



(a) Reconnect the D5 connector to the door control receiver, and check the voltage between the connector and the body ground.

Standard:

Symbols (Terminal No.)	Condition	Specified condition
RDA (D5–2) ⇔ Body ground	1. IG switch OFF 2. No key in IG switch 3. All door is closed 4. Transmitter switch OFF → ON	Below 1 V → 6 – 7 V → Below 1 V

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

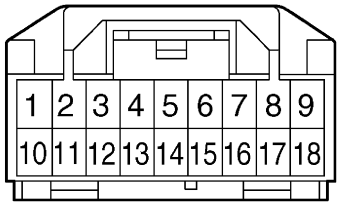
NG → **Go to step 17**

OK

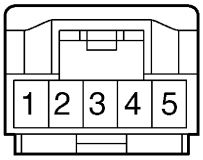
16 CHECK WIRE HARNESS

Wire Harness Side

B6
Instrument Panel J/B(Body ECU)



D5
Door Control Receiver



B58961

B59138

(a) Disconnect the B6 body ECU connector and D5 door control receiver connector, and check the continuity between the disconnected connectors.

Standard:

Symbols (Terminal No.)	Specified condition
RDA (D5–2) ⇔ RDA (B6–8)	Continuity

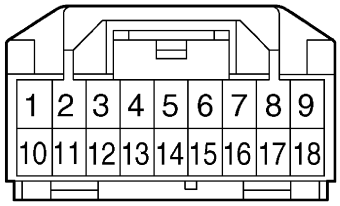
NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK → **Go to step 18**

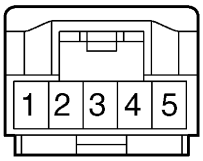
17 CHECK WIRE HARNESS

Wire Harness Side

B6
Instrument Panel J/B(Body ECU)



D5
Door Control Receiver



B58961

B59138

(a) Disconnect the B6 body ECU connector and D5 door control receiver connector, and check the continuity between the disconnected connector and the body ground..

Standard:

Symbols (Terminal No.)	Specified condition
RDA (B6–8) ⇔ Body ground	No continuity
RDA (D5–2) ⇔ Body ground	No continuity

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

OK

18 EXCHANGE DOOR CONTROL RECEIVER WITH NORMAL ONE

(a) Using a new or normal door control transmitter for a same type vehicle, register the discrimination code.

OK → **REPLACE DOOR CONTROL RECEIVER**

NG

REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY