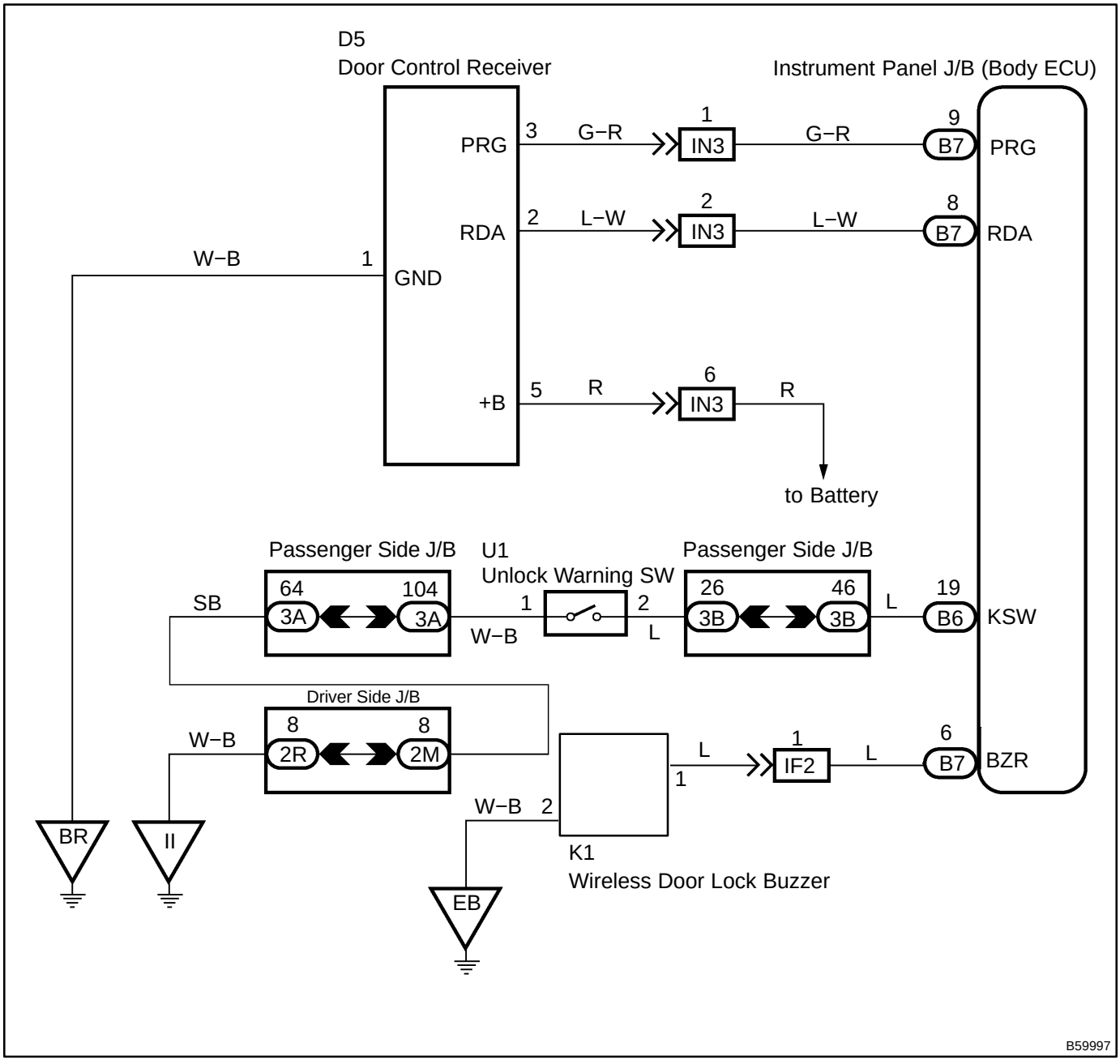
ONLY WIRELESS CONTROL FUNCTION IS INOPERATIVE (PREPARE NEW OR NORMAL TRANSMITTER OF THE SAME TYPE VEHICLE)

CIRCUIT DESCRIPTION

Door control receiver receives a signal from the transmitter and sends the signal to the instrument panel (body ECU). The instrument panel (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 wireharness 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 BASIC FUNCTION (See page 73−6)

OK → NORMAL

NG

2	CHECK THAT TRANSMITTER LED LIGHTS UP

(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 LOCK/UNLOCK switch operation can be done once more after the operation is repeated 3 times or more in the standard operation.

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	INSPECT BUZZER

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

NG → Go to step 19

OK

6	ENTER INTO SELF−DIAGNOSTIC MODE

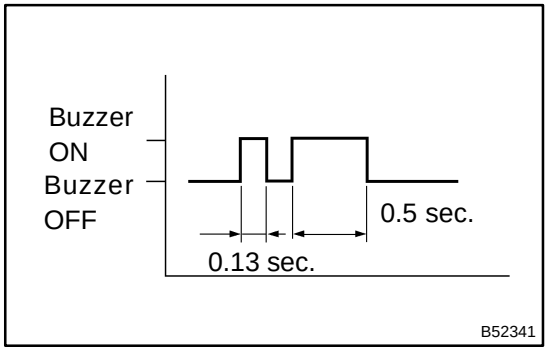
(a) Enter into the self−diagnostic mode via an operation of the ignition switch lock cylinder.
  (1) Insert the key into the ignition switch lock cylinder under the vehicle's initial condition, and then carry out the operation of the ignition switch assembly OFF→ON→OFF once within 5 seconds after the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



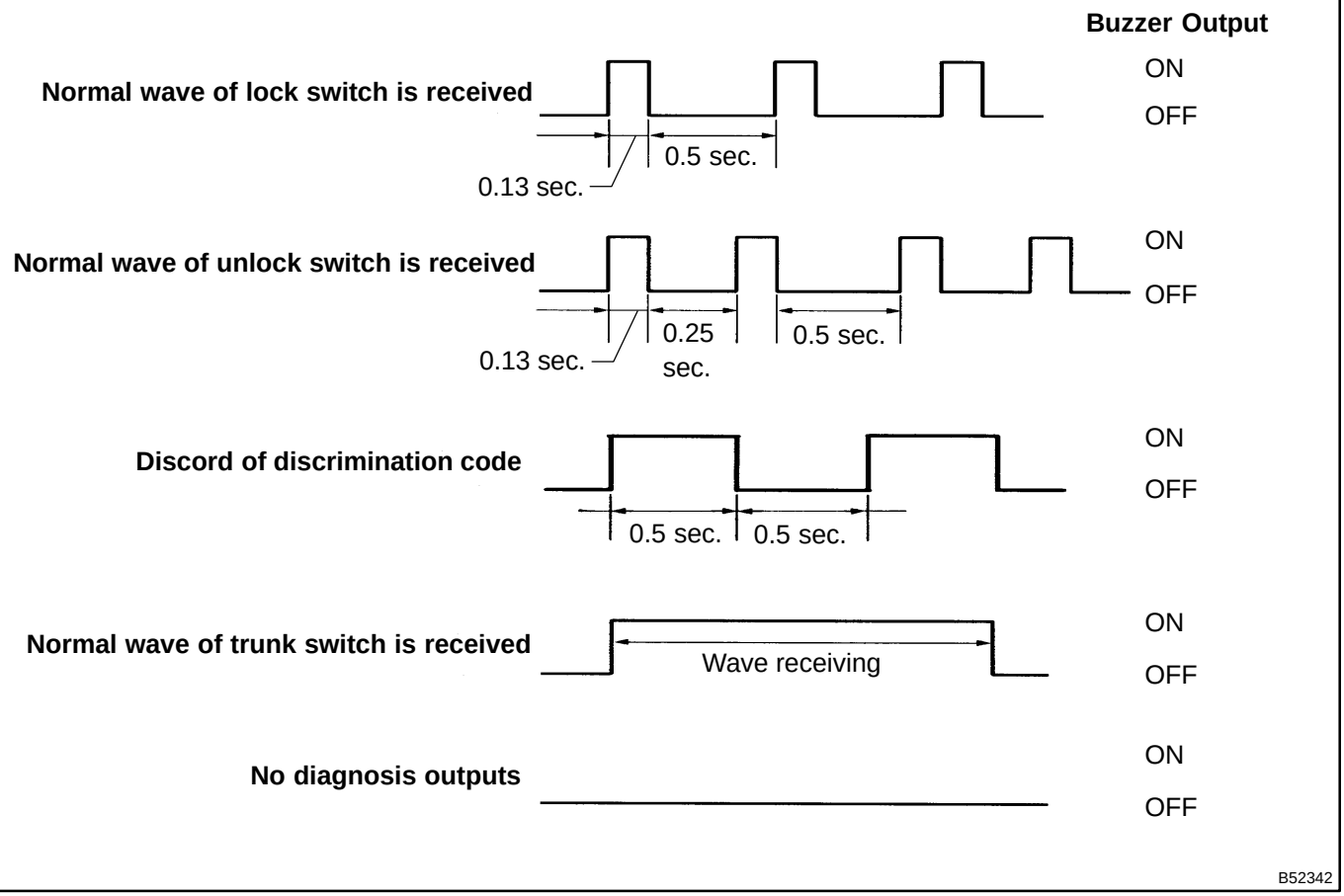
(3) Check that it has entered into the self−diagnostic mode by the answer back of the wireless door lock buzzer sound.

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 output can be made by output of the wireless door lock buzzer sound.).



HINT:

- In case of discord of discrimination code (wireless door lock buzzer on), go to step A.
- In case of a reception of the normal wave of the LOCK/UNLOCK switch (wireless door lock buzzer sounds) go to step B.
- In case of no diagnosis outputs (wireless door lock buzzer off), go to step C.

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

B

8	REGISTER RECOGNITION 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.

NG → **Go to step 14**

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

10	EXCHANGE DOOR CONTROL RECEIVER WITH NORMAL ONE

OK → **REPLACE DOOR CONTROL RECEIVER**

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

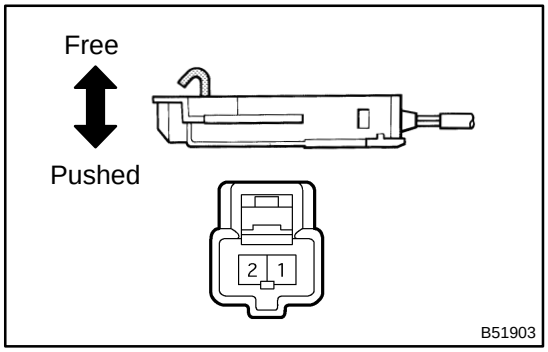
11	CONFIRM INPUT METHOD OF SELF−DIAGNOSTIC MODE

(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 continuity.

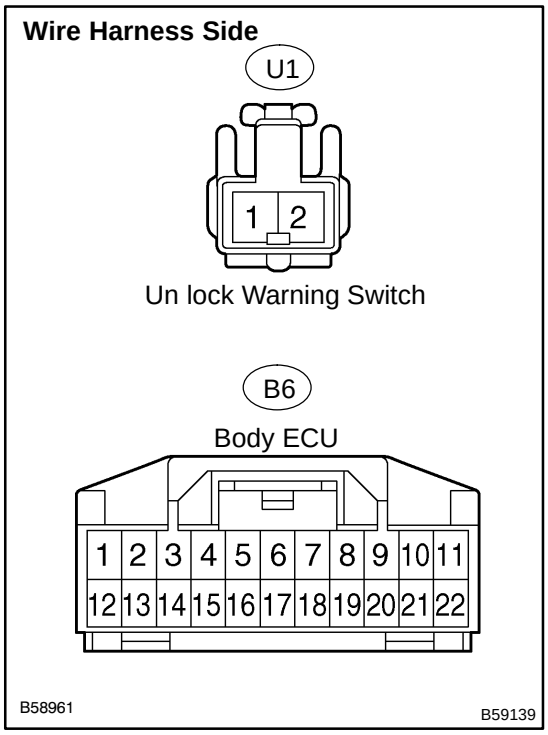
Standard:

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



(a) Disconnect the B6 body ECU and U1 unlock warning switch connectors.

(b) Check the continuity between the disconnected connectors.

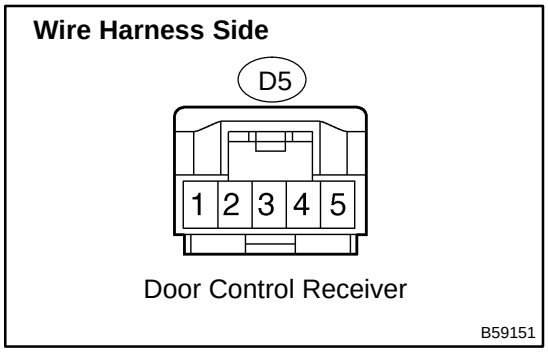
Standard:

Terminal No.	Specified condition
B6−19 ⇔ 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



(a) Disconnect the D5 door control receiver connector.

(b) Check the voltage and continuity between the disconnected connector and the body ground.

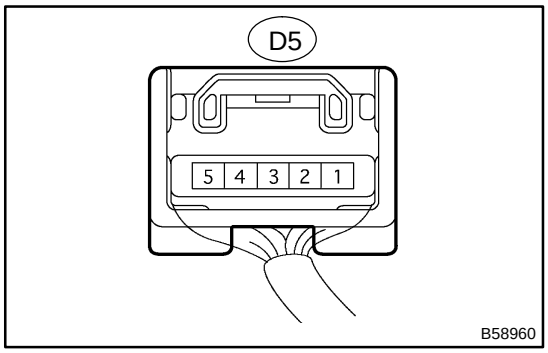
Standard:

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 door control receiver connector.
(b) Check the voltage between the connector and the body ground.

Standard:

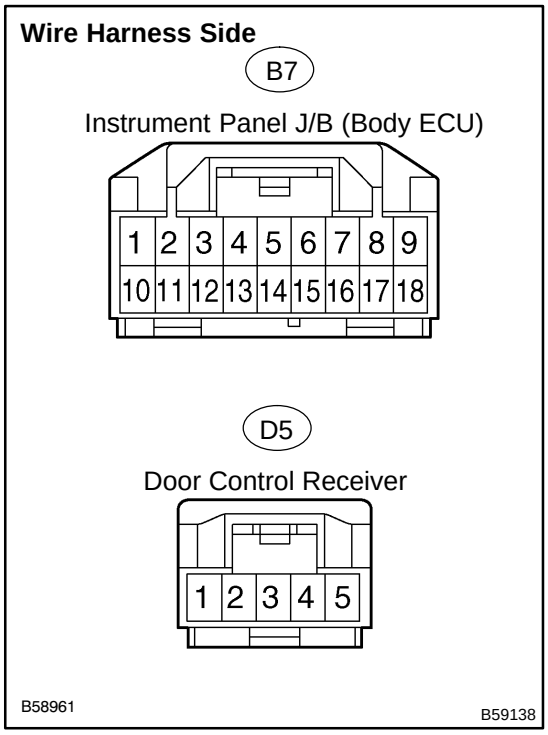
Symbols (Terminal No.)	Condition	Specified condition
RDA (D5−2) ⇔ Body ground	1. IG switch OFF 2. No key in IG switch 3. All doors closed 4. Transmitter switch OFF → ON	Below 1 V → 6 − 7 V → Below 1 V

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

NG → **Go to step 17**

OK

16 CHECK WIRE HARNESS



(a) Disconnect the B7 body ECU connector and D5 door control receiver connectors, and check the continuity between the disconnected connectors.

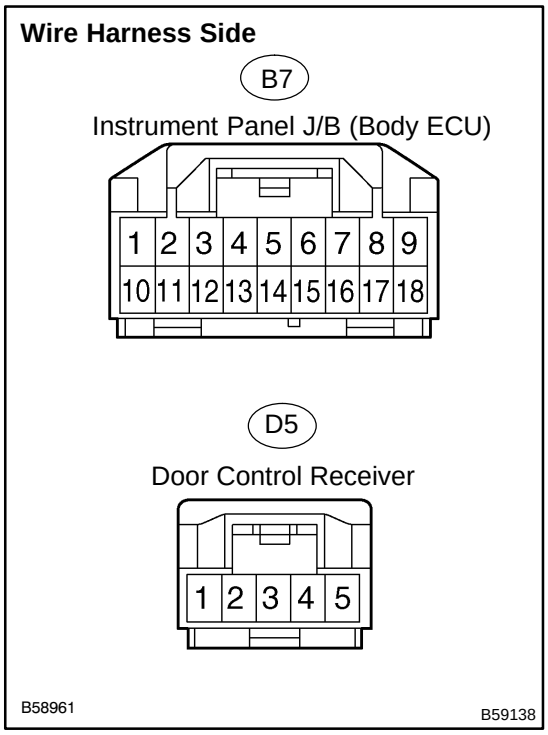
Standard:

Symbols (Terminal No.)	Specified condition
RDA (D5−2) ⇔ RDA (B7−8)	Continuity

OK → **Go to step 18**

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

17	CHECK WIRE HARNESS



(a) Disconnect the B7 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 (B7−8) ⇔ Body ground	No continuity
RDA (D5−2) ⇔ Body ground	No continuity

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

OK

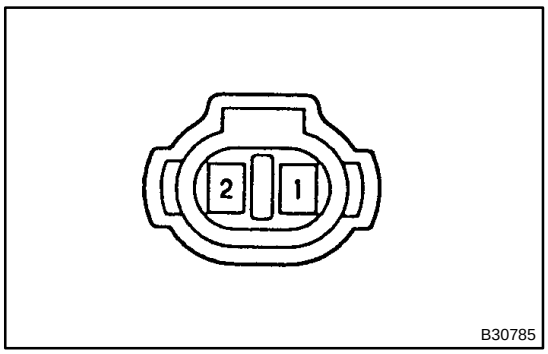
18	EXCHANGE DOOR CONTROL RECEIVER WITH NORMAL ONE

(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**

19	INSPECT WIRELESS DOOR LOCK BUZZER



(a) Check the resistance between terminals.

NOTICE:

- **The buzzer circuit is built in the body ECU but not in the buzzer itself.**
- **If applying the battery voltage directly to the buzzer, the buzzer does not sound.**

Standard: Approximately 1 kΩ

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

NG

REPLACE WIRELESS DOOR LOCK BUZZER