

ON-VEHICLE INSPECTION

1. SYSTEM CHECK

Only wireless function (Remote control) does not operate.
(If a new transmitter or a transmitter for same type vehicle that works properly with vehicle is not available.)

Put vehicle in following conditions (Pre-requisite).

- (1) No key is inserted in ignition key cylinder.
- (2) All doors are closed. (Door warning light is off.)
- (3) All doors are locked.



Basic function check:

Using standard operation, press UNLOCK or LOCK transmitter switch 3 times or more alternately. Check that UNLOCK or LOCK operation works properly from 3rd time onward.

- Standard operation.
- (1) Stand approximately 1 m (3.28 ft) away from driver's door outside handle on its right.
- (2) Hold transmitter toward vehicle and press one of transmitter switches for approximately 1 second.

No

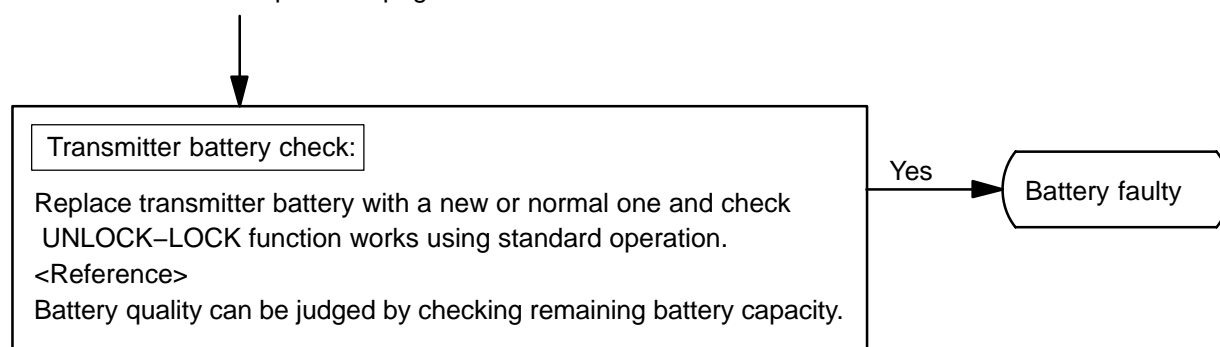
Yes

Normal
 <Reference>

- Operative distance may differ according to an operator, way of holding transmitter or position.
- As weak electric wave is used, when there is strong wave or noise in used frequency, operation distance might be shortened.

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No

Put vehicle in same conditions as shown in previous page. (Pre-requisite)

Inspection starts by using self-diagnostic mode:

Enter self-diagnostic mode.

When operating door control receiver as follows (steps 1 to 2), vehicle enters self-diagnostic mode.

(1) Insert key into ignition key cylinder and pull it out. Then, insert it again and turn ignition switch OFF → ON → OFF once within 5 seconds after pulling it out.

(2) Within 30 seconds, after completing above step, turn ignition switch OFF → ON → OFF 9 times.

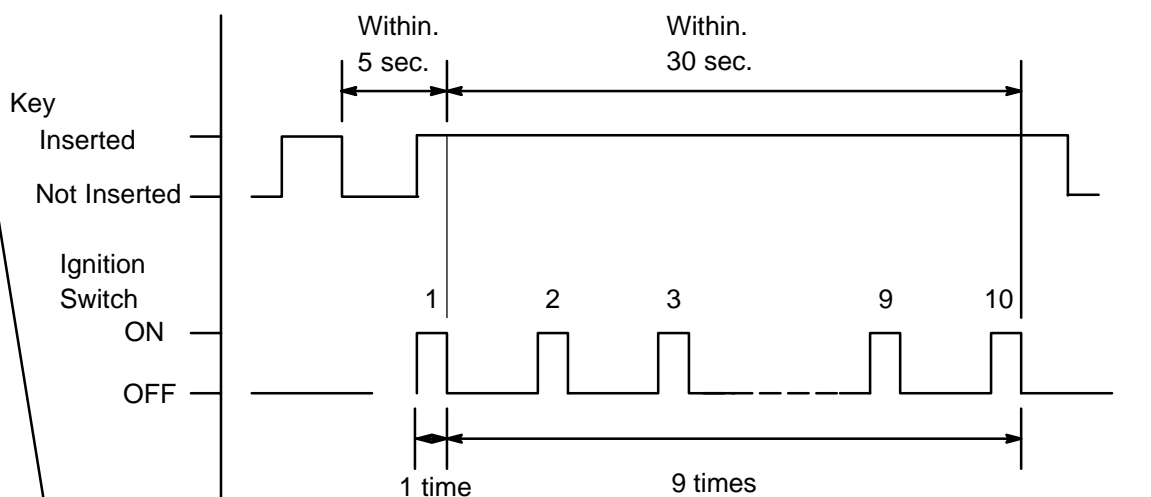
HINT:

If neither of (1) or (2) conditions is satisfied, vehicle returns to normal mode.

<Reference>

When completing self-diagnostic mode, turn ignition switch ON.

LOCK and UNLOCK operation is not performed under self-diagnostic mode.

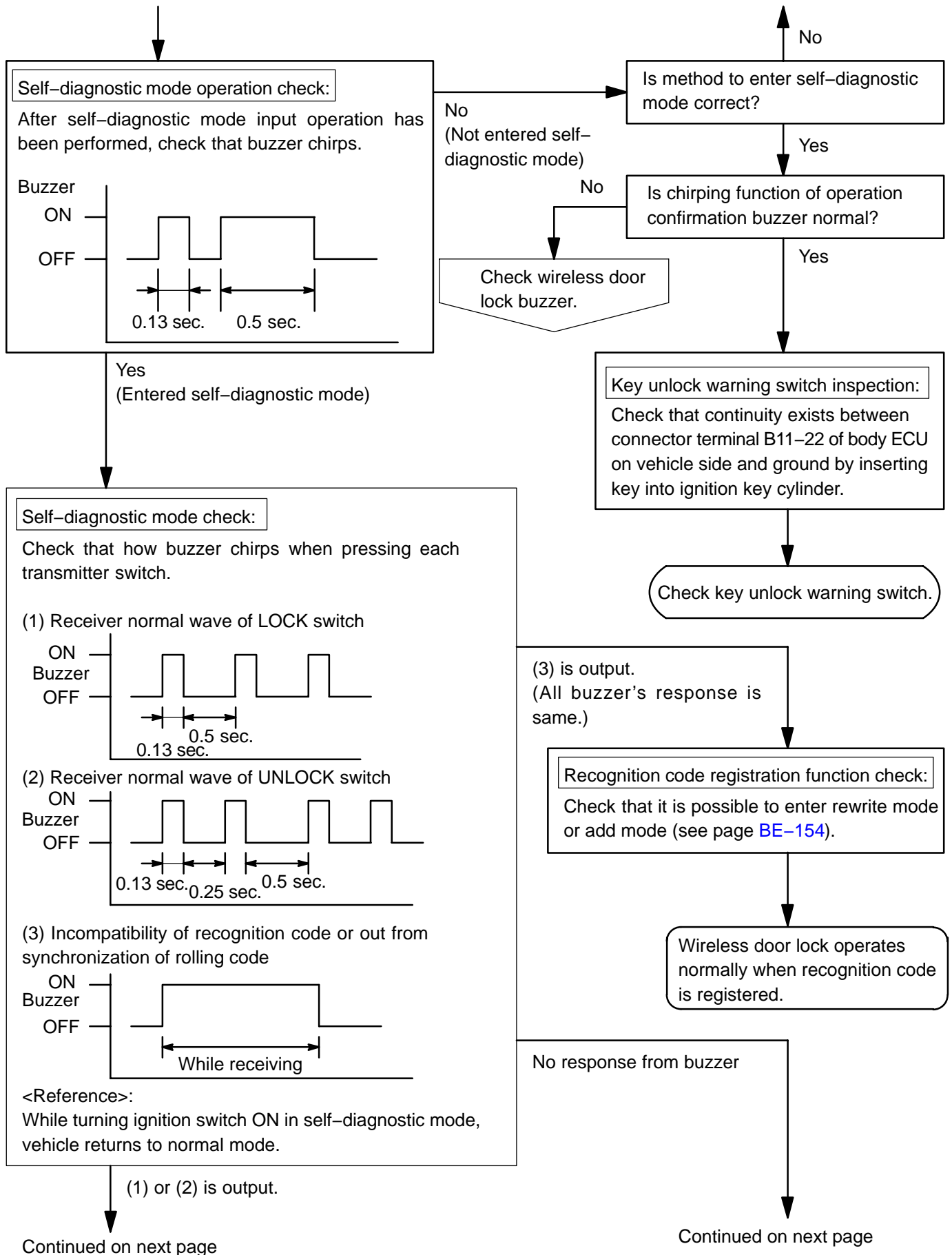


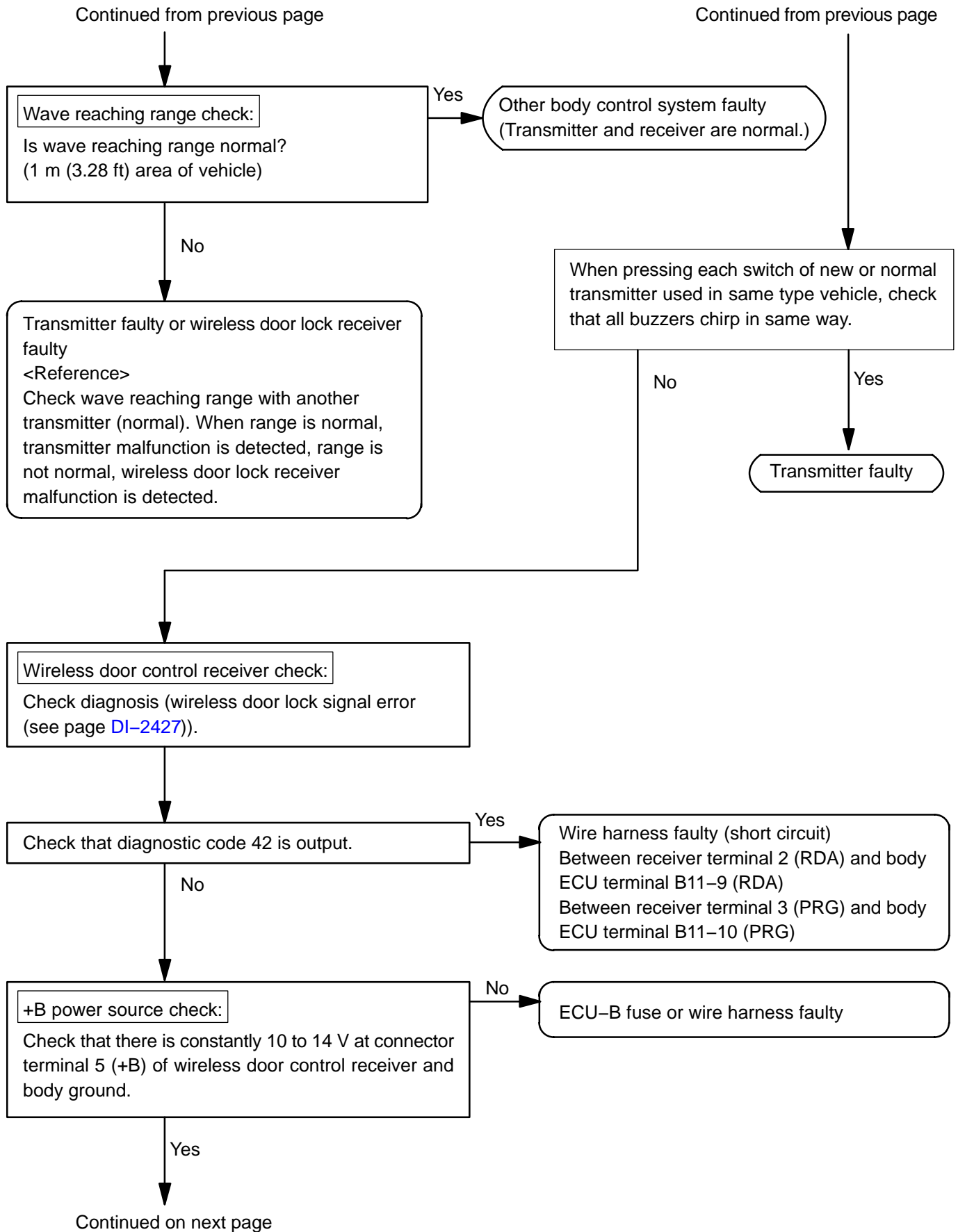
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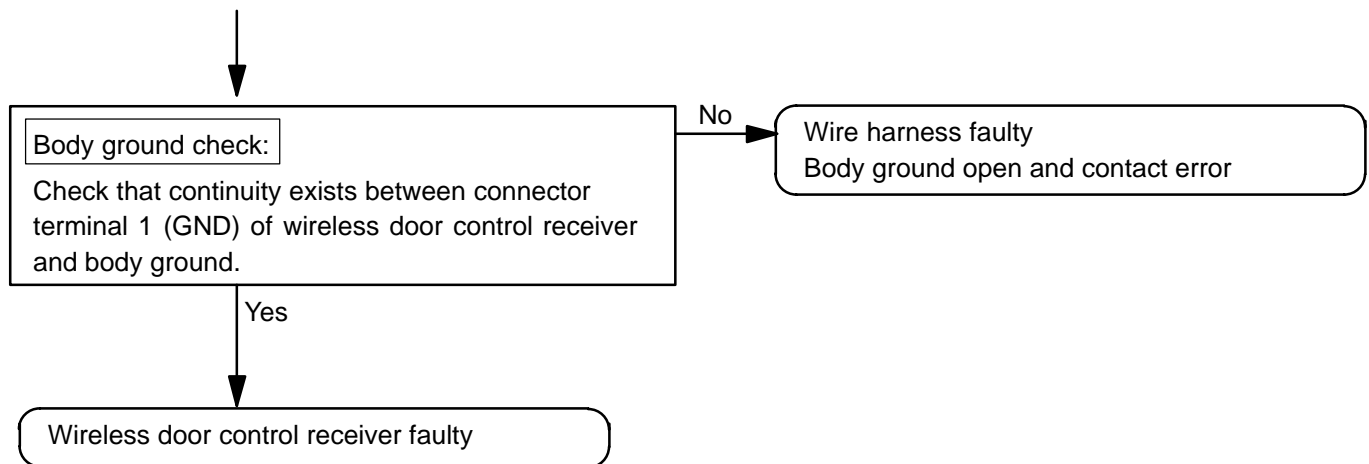
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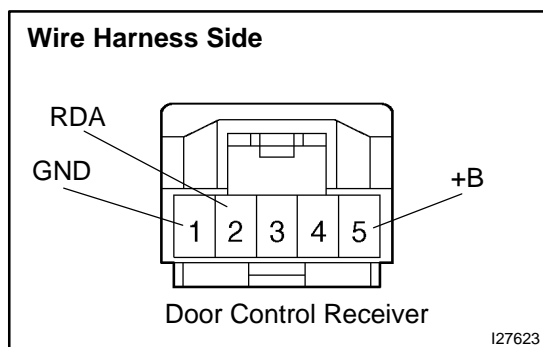


2. INSPECT WIRELESS DOOR LOCK CONTROL FUNCTIONS

HINT:

- The switch described in this text is a switch for transmitting signals which is built into the door control transmitter.
 - All the functions listed below must be checked in the remote control operational area.
- (a) Put the vehicle under the conditions that allow the wireless control function to be operated (see PRECAUTION on page [BE-153](#)).
 - (b) Check the basic function.
 - (1) Check that all the doors lock when the LOCK switch is pressed.
 - (2) Check that only the driver side door unlocks when the UNLOCK switch is pressed once and the other doors unlock when the UNLOCK switch is pressed again within 3 seconds.
 - (c) Check the chattering prevention function.
Check that the corresponding operation occurs only once and is not repeated continuously while the switch is held. However, when the switch is operated repeatedly at 1 second intervals, check that the corresponding operation is carried out.
 - (d) Check the automatic lock function.
 - (1) Check that all the doors lock automatically as long as none of them have been opened or all the doors have not been locked within approximately 30 seconds after they are unlocked by pressing the UNLOCK switch.
 - (2) Check that the automatic locking function does not operate when any door has been opened or all of them have been locked within approximately 30 seconds after they are unlocked by pressing the UNLOCK switch.
 - (e) Check the switch operation fail-safe function.
Check that the doors cannot be locked using the switch while the key is in the ignition key cylinder. However, this does not apply when the system is in the recognition code registration mode.
 - (f) Check the operation stop function when a door is open or not completely closed.
Check that the doors are not locked by the switch while any door is open or not completely closed.
 - (g) Check the repeat function.
Check that all the doors attempt to automatically lock once again 1 second after the LOCK switch has been pressed while the movement of the driver side door control knob is being restricted in the unlocked position.
 - (h) Check the taillights and parking lights flashing and wireless door lock buzzer chirp functions (answer-back).
 - (1) When the LOCK switch is pressed, check that the lights flash once and buzzer chirps once with the locking of all the doors.

- (2) When the UNLOCK switch is pressed once, check that the lights flash twice with the unlocking of the driver side door.
 - (3) When the UNLOCK switch is pressed again within 3 seconds, check that the light flashes twice with the unlocking of all the doors.
- (i) Check the illuminated entry function.
- (1) When all the doors are locked, pressing the UNLOCK switch causes the interior light (when the light switch is in the DOOR position) to illuminate simultaneously with the unlock operation.
 - (2) Check that the interior light fades out in approximately 15 seconds if doors have not been opened.
- (j) Check the remote panic alarm function.
- Check that the horn sounds, and the headlights and taillights flash for 60 seconds by the theft alarm function when the PANIC switch is pressed. Also, check that the horn stops sounding and the lights stop flashing when either PANIC or UNLOCK switch on the transmitter is pressed or any door is unlocked using the key.



3. CHECK DOOR CONTROL RECEIVER

- (a) Disconnect the receiver connector.
- (b) Check the voltage and resistance between the terminals of the wire harness side connector of the receiver and body ground.

Standard:

Tester Connection	Specified Condition
5 (+B) – Body ground	10 – 14 V
1 (GND) – Body ground	Continuity

If the result is not as specified, there may be a malfunction on the wire harness side.

- (c) Reconnect the connector and check the voltage between the terminal and body ground.

Standard:

Tester Connection	Condition	Specified Condition
2 (RDA) – Body ground	No key in ignition key cylinder, all doors closed and each transmitter switch OFF → ON	Below 1 V → Approx. 6 to 7 V → Below 1 V

If the result is not as specified, the receiver may have a malfunction.

4. INSPECT WIRELESS DOOR LOCK BUZZER

Connect the positive (+) lead from the ohmmeter to terminal 1 and the negative (–) lead to terminal 2, and measure resistance.

Standard: Approximately 1 kΩ

If the resistance is not as specified, replace the buzzer.

