

## ON-VEHICLE INSPECTION

### 1. NOTICES WHEN CHECKING

(a) Wireless door LOCK / UNLOCK function:

The wireless door lock control function operates only when the following 3 conditions are met.

- (1) No key is inserted the ignition key cylinder.
- (2) All the doors are closed.
- (3) The power door lock system is functioning normally.

HINT:

The UNLOCK function operates even when one of the doors is open.

(b) Remote panic function:

This wireless control function operates only when the following condition is met.

- (1) The ignition switch is in the LOCK position.

HINT:

The key can be inserted. However the ignition switch must be in the LOCK position.

(c) The wireless transmitter operational area differs depending on the situation.

- (1) The operational area differs depending on the user, the way the transmitter is held and the location.
- (2) In certain areas, the operational area is reduced due to the vehicle body shape and the influence of the surroundings.
- (3) Since the transmitter uses faint electric waves, the operational area may be reduced if noise or strong electric waves occur in the area where the transmitter is used. In some cases, the transmitter may not function.
- (4) When the battery weakens, the operational area is reduced or the transmitter may not function.

HINT:

If the transmitter has had prolonged exposure to direct sunlight, such as on the instrument panel, the battery may weaken or other problems may occur.

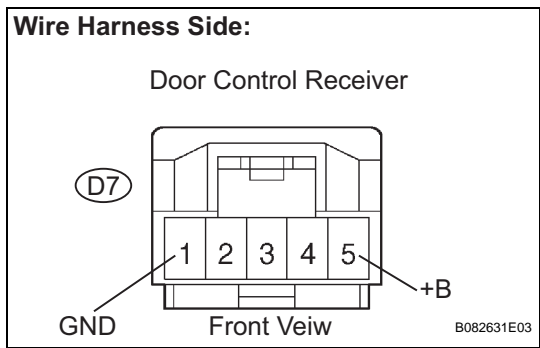
### 2. CHECK WIRELESS DOOR LOCK CONTROL SYSTEM

HINT:

- The switches described below transmit signals and are built into the door control transmitter.
  - The operational area must be taken into account while checks are being made.
- (a) Put the vehicle under conditions that allow the wireless control functions to operate.
  - (b) Check the basic functions.
    - (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 that the remaining doors unlock when the UNLOCK switch is pressed again within 3 seconds.
- (c) Check the chattering prevention function.
  - (1) Check that pressing a switch causes the switch's operation to occur only once. Also check that when the switch is held down, the operation is not repeated continuously. Then, make sure that when the switch is pressed repetitively at approximately 1 second intervals, the switch's operation occurs each time.
- (d) Check the automatic locking function.
  - (1) Check that if all the doors are unlocked with the UNLOCK switch and none of the doors are opened or locked within approximately 30 seconds, the doors automatically relock.
  - (2) Check that if all of the doors are unlocked with the UNLOCK switch and a door is opened or locked within approximately 30 seconds, the automatic locking function does not operate.
- (e) Check the switch operation fail-safe function.
  - (1) Check that the doors cannot be locked by a switch while the key is in the ignition key cylinder. However, this does not apply when the system is in recognition code registration mode.
- (f) Check the operation stop function when a door is open or not completely closed.
  - (1) Check that if a door is open or not completely closed, the doors cannot be locked by the LOCK switch.
- (g) Check the repeat function.
  - (1) Check that if the LOCK switch is pressed while the movement of the driver side door control knob (in the unlocked state) is restricted, the repeat function attempts to lock all of the doors again 1 second later.
- (h) Check the answer-back function.
  - (1) When the LOCK switch is pressed, check that the lights flash once simultaneously with the locking of all the doors.
  - (2) When the UNLOCK switch is pressed once, check that the lights flash twice simultaneously with the unlocking of the driver side door.
  - (3) When the UNLOCK switch is pressed again within 3 seconds, check that the lights flash twice simultaneously 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 room light (when the light switch is in the DOOR position) to illuminate simultaneously with the unlock operation.
  - (2) Check that the room light turns off in approximately 15 seconds if doors have not been opened.
- (j) Check the remote panic function.
  - (1) Check that if the PANIC switch is pushed once, the theft deterrent alarm function sounds the horn, flashes the headlights, taillights and hazzard warning lights and turns the room light on. And, with the theft alarm function active, check that pressing panic or unlock switch on the transmitter causes the horn to stop sounding and the headlights, taillights and hazzard warning lights to stop flashing and the room light to turn off.



**3. INSPECT DOOR CONTROL RECEIVER**

- (a) Disconnect the D7 door control receiver connector.
- (b) Measure the voltage and resistance of the wire harness side connector.

**Standard Voltage**

| Tester Connection       | Specified Condition |
|-------------------------|---------------------|
| D7-5 (+B) - Body ground | 10 to 14 V          |

**Standard Resistance**

| Tester Connection        | Specified Condition |
|--------------------------|---------------------|
| D7-1 (GND) - Body ground | Below 1 $\Omega$    |

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

- (c) Reconnect the door control receiver connector.
- (d) Measure the voltage of the connector.

**Standard Voltage**

| Tester Connection        | Condition   | Specified Condition            |
|--------------------------|---|--------------------------------|
| D7-2 (RDA) - Body ground | Each transmitter switch OFF<br>(No key in ignition key cylinder and all doors closed) | Below 1 V                      |
| D7-2 (RDA) - Body ground | Each transmitter switch ON<br>(No key in ignition key cylinder and all doors closed)  | Alternates between 6 V and 7 V |

If the result is not as specified, there may be a malfunction on the receiver.

