

WIRELESS DOOR LOCK CONTROL SYSTEM

ON-VEHICLE INSPECTION

7305N-01

HINT:

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

1. NOTICES WHEN CHECKING

- (a) The wireless door lock remote control operates only when the following 4 conditions are satisfied.
 - (1) All the doors are closed. However, the wireless unlock operation can be done even if any of the doors is open.
 - (2) The key plate is not inserted in the key cylinder.
 - (3) Power door lock operates normally.
 - (4) Receiving function stop is not operated by a security function.
- (b) Check the wireless door lock remote control operational area.
 - (1) Operational area differs depending on the operator and the way to hold it.
 - (2) There may be a place where the operational area will be narrowed down due to the body configuration and the influence of the surrounding environment, or the remote control will not operate partially.
 - (3) Because of using faint electric wave, in case that there is a strong electric wave or noise in a frequency used area, there is a case where the operational area is narrowed down or the remote control is not operated.
 - (4) When the battery is consumed, the operational area is narrowed down or the remote control is not operated.

HINT:

If leaving the door control transmitter on the place that is exposed to a direct sun light such as on the instrument panel, this may cause the battery wear or a trouble.

2. VEHICLE'S INITIAL CONDITION (CONDITION OF WIRELESS CONTROL POSSIBLE)

- (a) No key in the ignition key cylinder
- (b) All doors closed (door open indicator off)
- (c) All doors locked

3. INSPECT WIRELESS DOOR LOCK CONTROL FUNCTION

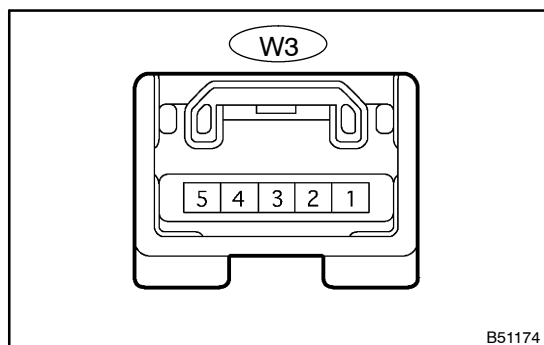
- (a) Check the basic function.
 - (1) Check whether the LED does not light up when the switch is pressed 3 times.

HINT:

In case that the LED does not light up when the switch has been pressed 3 times or more, it may be caused by the battery dead.

- (2) In the remote control operational area, check that the all doors will lock or unlock when the switch has been pressed for approximately 1 second. It is, however, not the case where the key is in the ignition key cylinder or any of the doors is open.
- (b) Check the chattering prevention function.
 - (1) Check that the corresponding operation will be done only once and but not repeat continuously when the switch has been kept pressing. However, if the operations are carried out by approximately 1 second interval, from the time to release the finger from the switch till the time to press it again, check that a corresponding operation to the switch that will be pressed next will be carried out.
- (c) Check the automatic locking function.
 - (1) Check that all doors will automatically lock as long as any of the doors has not been opened or all doors have not been locked within approximately 30 seconds after all doors are unlocked by pressing the switch.

- (2) Under the above condition, the automatic locking function will not work if any of the doors has been opened or all doors have been locked within approximately 30 seconds.
- (d) Check the switch operation fail-safe function.
 - (1) Check that doors are not locked or unlocked by the switch while the key is in the ignition key cylinder. However, the time of the discrimination code registration mode is excepted.
 - (2) Check that doors are not locked or unlocked by the switch of an unregistered transmitter, but they are locked or unlocked by the switch of a registered transmitter.
- (e) Check operation stop function when door is open or not completely close
 - (1) Check that doors are not locked or unlocked by the switch while the door is open or is not completely close.
- (f) Check the repeat function.
 - (1) Check that the all doors will automatically lock once again 1 second after the lock switch has been pressed while the move of the driver's door control knob, which is in unlocking state, is being blocked forcibly.
- (g) Check the hazard flashing function (answer back).
 - (1) Check that the hazard lights will flash once (when locked) or twice (when unlocked) simultaneously with all doors' locking or unlocking operation, when the switch is pressed.
- (h) Check the room light ON function.
 - (1) Make the room light switch in the DOOR position.
 - (2) Check that the room light will be on simultaneously with the unlocking operation when the switch has been pressed for 1 second.
 - (3) Check that the room light will be off in approximately 15 seconds if doors have not been opened after the unlocking operation.

**4. CHECK WIRELESS CONTROL RECEIVER**

- (a) Disconnect the receiver connector and check that the connector on the wire harness side.

Continuity and Voltage:

Tester connection	Condition	Specified condition
1 – Body ground	Constant	Continuity
5 – Body ground	Constant	10 – 14 V

HINT:

If the value is not as specified the vehicle's side may be defective.

- (b) Connect the receiver connector and check that the voltage for using oscilloscope.

Voltage:

Tester connection	Condition	Specified condition
2 – Body ground	IG switch OFF, key not inserted and all door is closed → Door control transmitter ON	Below 1 V → About 6 – 7 V → Below 1 V

HINT:

If the value is not as specified the door control receiver may be defective.