

# POWER WINDOW CONTROL SYSTEM

70084-01

## ON-VEHICLE INSPECTION

### 1. NOTICES OF INSPECTION WITH REMOVAL AND INSTALLATION FOR SYSTEM

- (a) When performing operations related to the driver's side front door lock assembly and the door lock cylinder, the operations should be done after disconnecting of the battery terminal or the connectors of power window regulator master switch assembly.

#### CAUTION:

**If the operation is performed with the connectors being connected, the door control switch (interlocked with key) inside the door lock (combination switch) might be unexpectedly activated, which results in injury.**

### 2. CHECK BASIC FUNCTION (MANUAL OPERATION FUNCTION)

- (a) Turn the ignition switch ON.
- (b) Check that the door glass moves up when each window switch of the regulator master switch assembly is turned UP and moves down when each window switch is turned DOWN.
- (c) Check that the door glass moves up when the window switch of each regulator switch assembly is turned UP and moves down when the window switch is turned DOWN.
- (d) Check that the door glasses other than the driver's door glass do not operate when the window lock switch is turned LOCK.

#### NOTICE:

**Initial condition that the customizing function is not chosen by hand-held tester is shown.**

### 3. CHECK AUTOMATIC OPERATION FUNCTION

- (a) Turn the ignition switch ON.
- (b) Check that the AUTO UP operates and the door glass is fully closed when each window switch of the regulator master switch assembly is turned UP by double-shift.
- (c) Check that the AUTO DOWN operates and the door glass is fully opened when each window switch of the regulator master switch assembly is turned DOWN by double-shift.
- (d) Check that the AUTO UP operates and the door glass is fully closed when the window switch of each regulator switch assembly is turned UP by double-shift.
- (e) Check that the AUTO DOWN operates and the door glass is fully opened when the window switch of each regulator switch assembly is turned DOWN by double-shift.
- (f) Check that the door glass stops when the applicable switch is turned UP during the AUTO DOWN operation. (However, if the switch is kept in the UP side, it will transfer to the manual operation.)
- (g) Check that the door glass stops when the applicable switch is turned DOWN during the AUTO UP operation. (However, if the switch is kept in the DOWN side, it will transfer to the manual operation.)

### 4. CHECK OPERATION FUNCTION AFTER KEY-OFF

- (a) After turning the ignition switch from ON to OFF, check that each door glass can be operated via the switch of the regulator master switch assembly, and check that the operation becomes impossible once the any door (including the back door is opened) is opened.
- (b) When approximately 45 seconds have elapsed after the ignition switch is turned from ON to OFF, check that the window switch of the regulator master switch assembly will be unable to operate the door glass.

#### HINT:

Operations will stop even in the AUTO operations as soon as the conditions to prohibit the operations after key-off are satisfied, however, the reverse operation via the jam protection function keeps working until it has completed if the operations after key-off are prohibited during the reverse operation.

**5. CHECK WIRELESS OPERATION**

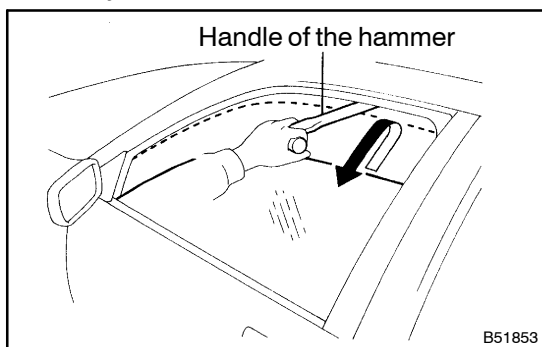
- (a) With all the doors closed, have no key inserted in the ignition key cylinder.
- (b) Check that each door glass moves down when the UNLOCK switch of the transmitter is kept pressing for 2.5 seconds or more. Also, check that the door glass stops when the UNLOCK switch is turned off.
- (c) Check that each door glass moves up when the LOCK switch of the transmitter is kept pressing for 2.5 seconds or more. Also, check that the door glass stops when the LOCK switch is turned off.

**6. CHECK JAM PROTECTION FUNCTION****NOTICE:**

- **Never check it with any part of your body such as hand caught between the glass and the vehicle's body. Also, pay thorough attention not to get caught in there during the operation.**
- **In case of resetting the power window regulator motor assembly, check should be carried out after repeating to raise and lower the door glass several times by the AUTO operation.**

**HINT:**

Jam protection function works during the following UP operations; AUTO UP, UP after key OFF, AUTO UP after key OFF.



- (a) Open the door glass fully.
- (b) Set the handle of the hammer near the fully-closed position.
- (c) When fully closing the door glass with AUTO UP, check that it moves down without the hammer handle getting caught and will go down by about 200 mm (7.87 in.) and stop there.

**HINT:**

The window goes down by about 50 mm or for 1 second. In case of that the opening value is below 200 mm, the window goes down by 200 mm or keeps going down for 5 seconds, and stops then.

- (d) During the down operation, check that the door glass does not move up even with an input of the applicable window switch.