POWER WINDOW CONTROL SYSTEM

7013W–01

ON–VEHICLE INSPECTION

1. INSPECT POWER WINDOW

NOTICE:

The initial condition that the customizing function is not chosen by the hand–held tester is shown.

(a) Check the basic function (Manual operation function).
  (1) Turn the ignition switch ON.
  (2) Check that the door glass move up when the power window regulator master switch is pulled UP halfway and moves down when the switch is pushed DOWN halfway.
  (3) Check that the door glass moves up when the power window regulator switch of each door is pulled UP, and moves down when the switch is pushed DOWN.
  (4) Check that the door glasses other than the driver side door glass do not operate when the window lock switch is turned to LOCK.

(b) Check the automatic operation function (Only driver side door glass).
  (1) Turn the ignition switch ON.
  (2) Check that the AUTO UP function operates to fully close the door glass when the power window regulator master switch is pulled UP fully.
  (3) Check that the AUTO DOWN function operates to fully open the door glass when the power window regulator master switch is pushed DOWN fully.
  (4) Check that the door glass will stops when the applicable window switch is pulled UP during the AUTO DOWN operation side, (However, if the UP and DOWN operations are continued, it will change is pushed to manual operation).
  (5) Check that the door glass stop when the applicable window switch change is pushed DOWN during AUTO UP operation (However, if the UP and DOWN operations are continued, it will change is pushed to manual operation).

(c) Check the operation function after key–off.
  (1) After turning the ignition switch from ON to OFF, check that each door glass can be operated via the power window regulator master switch. Also, check that operation is disabled after the driver door is opened then closed once.
  (2) After turning the ignition switch from ON to OFF, check that the power window regulator master switch is unable to operate the door glass approximately 45 seconds later.
  (3) After turning the ignition switch from ON to OFF with the driver side door open, check that AUTO UP or AUTO DOWN function keeps operating until the door is fully open or fully closed even when the door is closed in the middle of the middle of operation. Also check that power window operation is disabled after operation has ended.

(d) Check the operation function by driver side door key operation (Operation interlocked with key).
  (1) Check that the driver side door glass moves down when the door lock cylinder is held in the UNLOCK position for 2 seconds or more by key operation. Also, check that the door glass stops when the door lock cylinder is turned back to the original position.
  (2) Check that the driver side door glass moves up when the door lock cylinder is held in the LOCK position for 2 seconds or more by key operation. Also, check that the door glass stops when the door lock cylinder is turned back to the original position.

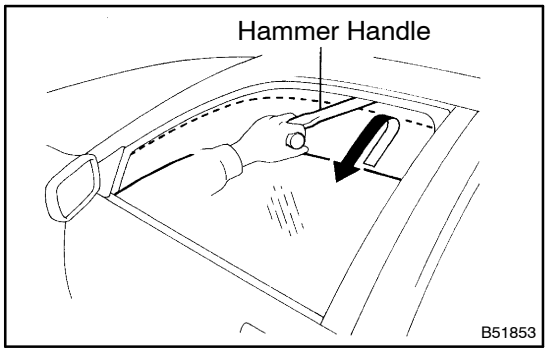
(e) Check the jam protection function (Only driver side door glass).

NOTICE:

- **Do not check this function using a part of your body such as a hand. Also, pay thorough attention that nothing gets caught by accident in this process.**
- **If the power window regulator motor assembly has just been reset, raise and lower the door glass several times using AUTO operation before preforming check.**

HINT:

The jam protection function works during the following UP operations; AUTO UP, UP after key–OFF, AUTO UP after key–OFF, UP interlocked with key.



(1) Fully open the door glass.

(2) Insert the handle of the hammer when the door glass is almost in the fully closed position.

(3) Try to fully close the door glass with AUTO UP operation, and check that the door glass moves down about 200 mm (7.87 in.) and stops there, so that hammer handle is not caught.

HINT:

The window goes down by about 50 mm or for 1 second. However, when the opening between the glass and body is less than 200 mm, the door glass goes down by 200 mm or keeps going down for 5 seconds, and then stops.

(4) During DOWN operation, check that the door glass does not move up even when the applicable window switch is pulled UP.