

## SYSTEM DESCRIPTION

### 1. POWER WINDOW CONTROL SYSTEM DESCRIPTION

- (a) The power window control system controls the UP/DOWN function of the power windows by using the regulator motors.

The main components of this system are: the power window regulator master switch assembly, which is built into the driver side door, and the power window regulator switch, which is built into the passenger side door and rear doors. Pressing the regulator switch or either of the four switches on the master switch assembly transmits an UP/DOWN signal to the corresponding power window regulator motor.

- (b) The power window control system has the following functions:

Function	Outline
Manual UP / DOWN function	Driver side power window: Function that causes window to rise while power window switch is being pulled up, and to lower while pushed halfway down. Window stops as soon as the switch is released. Passenger side power window and rear door power window: Function that causes window to rise while power window switch is being pulled up and to lower while pushed down. Window stops as soon as the switch is released.
AUTO DOWN function	Function that enables window of driver side door to be fully open by one press of power window switch.
Remote control function	Function that allows power window master switch assembly to control manual UP/DOWN operation of passenger door power window and rear door power window.
Key-off operation function	Function that makes it possible to operate power window for approximately 43 seconds after ignition switch is turned to ACC or LOCK position if neither front door is opened.
Window lock function	Function where passenger side power window and rear door power window operations are disabled when window lock switch of the master switch assembly is pressed. Passenger side power window and rear door power window can be operated when window lock switch is pressed again.

# HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use these procedures to troubleshoot the power window control system.

**1** VEHICLE BROUGHT TO WORK SHOP

**WS** NEXT

**2** CUSTOMER PROBLEM ANALYSIS CHECK AND SYMPTOM CHECK

NEXT

**3** PROBLEM SYMPTOM TABLE

**Result**

Result	Proceed to
Fault is not listed in problem symptoms table	A
Fault is listed in problem symptoms table	B

**B** Go to step 5

**A**

**4** OVERALL ANALYSIS AND TROUBLE SHOOTING\*

- (a) On-vehicle Inspection (See page [WS-9](#))
- (b) Inspection
- (c) Terminals of ECU (See page [WS-5](#))

NEXT

**5** ADJUST, REPAIR OR REPLACEMENT

NEXT

**6** CONFIRMATION TEST

NEXT

END