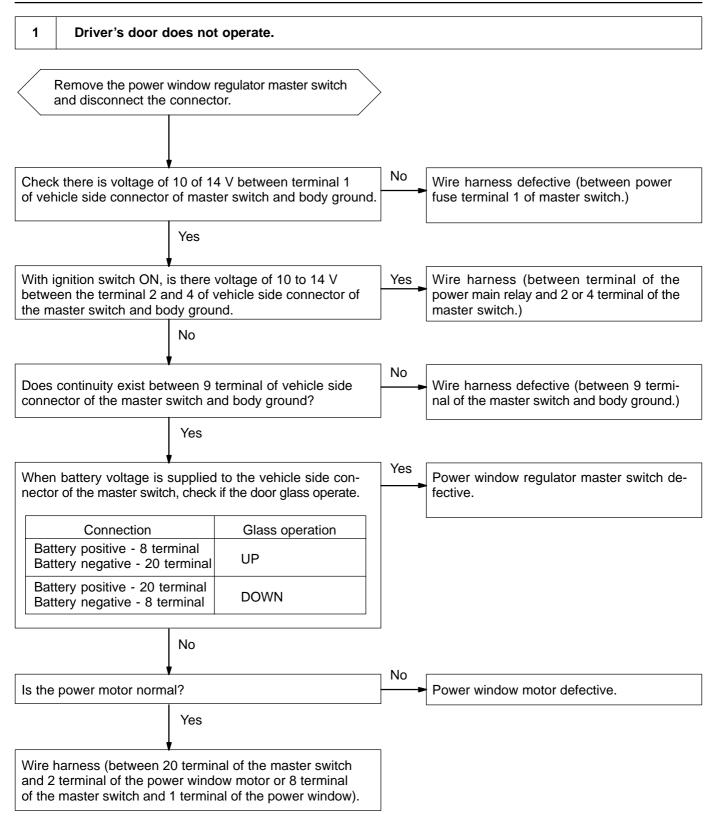
## POWER WINDOW CONTROL SYSTEM TROUBLESHOOTING

BE02C-15

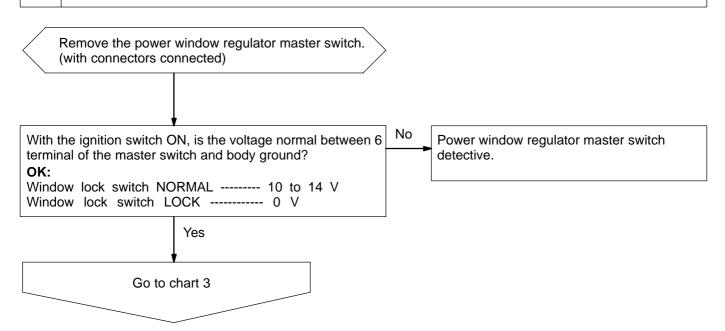
Malfunction symptoms	Applicable chart
Driver's door does not operate.	1
Passenger's and all rear doors do not operate by using the switches at each seat.	2
Any of passenger's and rear doors does not operate by using the switches of each seat.	3
Passenger's and all rear doors are not controlled remotely by using the master switch. (Switches of each door can be operated.)	4
AUTO UP and AUTO DOWN does not operate. (Prepare a normal master switch.)	5
DOWN operation operates during door glass AUTO UP operation.	6
Even though a foreign object is caught, DOWN operation does not function.	7
After ignition switch has been turned to OFF by using a key, power window function does not operate.	8

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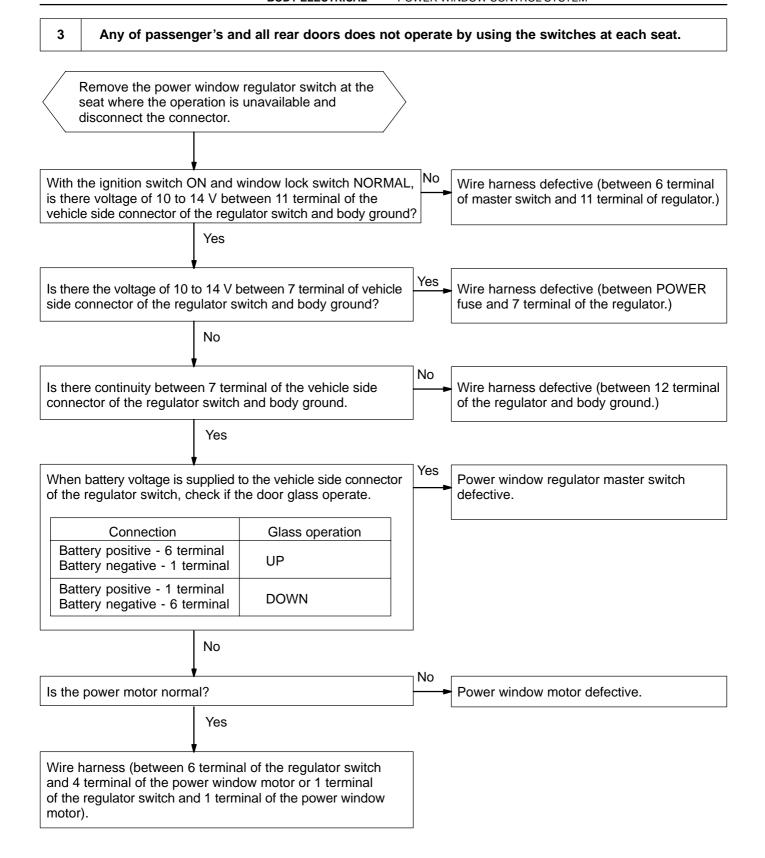


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2 Passenger's and all rear doors do not operate by using the switches of each seat.



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4

Passenger's and all rear doors are not controlled remotely by using the master switch.

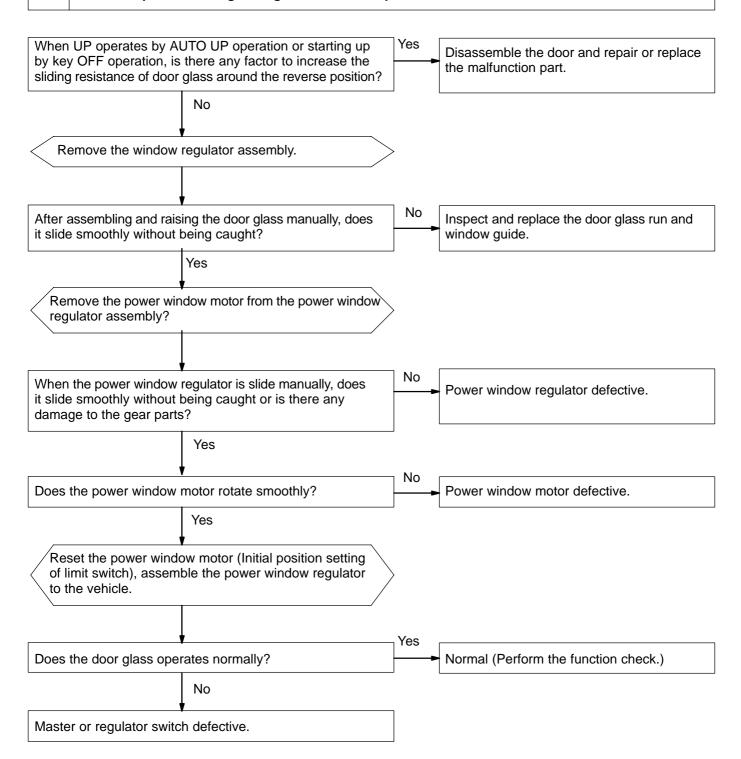
(Switches at each door can be operated.) Remove the power window master switch. (With connector connected) No With the ignition switch ON is there voltage of 25 between 18 Power window master switch defective. terminal of vehicle side connector of the master switch and body ground? Yes Remove the power window regulator switch at the seat where the remote operation is unavailable and disconnect the connector. With the ignition switch ON, and window lock switch NORMAL, No Wire harness defective (between 18 terminal is there voltage of 10 to 14 V between 8 terminal of the of the maser switch and 8 terminal of the vehicle side connector of regulator switch and body ground? regulator switch.) Yes Yes Replace the regulator switch with the normal one from the Power window regulator switch defective. other seats, when operating by remote function, does power window operate normally? No Power window regulator master switch defective.

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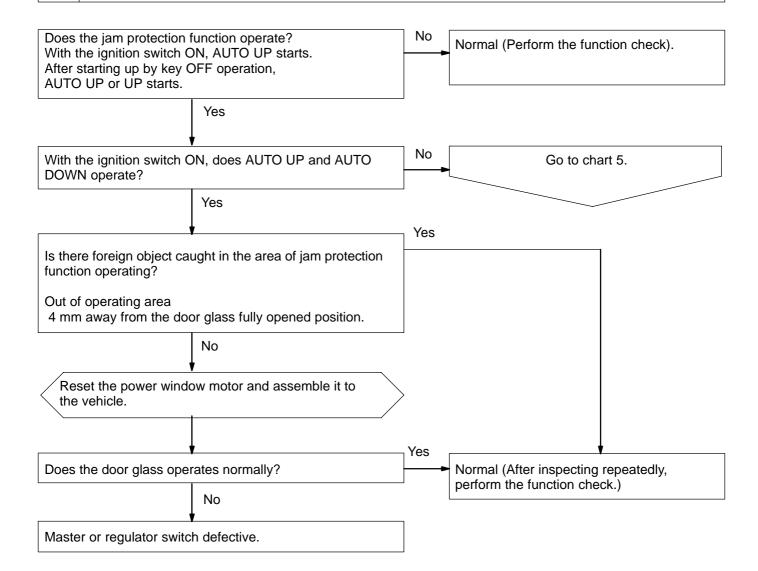
## 5 AUTO UP and AUTO DOWN do not operate. (Prepare a normal master switch.) Remove the master switch or regulator switch at the seat where AUTO UP and AUTO DOWN is unavailable. (With connectors connected) Master of regulator switch inspection: Are the voltage and continuity of the connectors connected to the master switch or regulator switch normal? OK: Terminal No. Item Inspection condition Standard Fully open by manual operation $\rightarrow$ Less than $1 \rightarrow 10 \text{ V}$ to 3 13 Voltage fully close → switch OFF $14 \rightarrow 0 V$ 12 4 During power window operation Approx. 5.5 V Voltage 10 2 Constant Continuity Continuity No Yes Disconnect the connectors of the master switch or Master or regulator switch defective. regulator switch and power window motor. Does continuity exist between connectors of the following Wire harness defective (Open circuit in each vehicle side connectors? terminal) Switch side $\leftrightarrow$ Motor side 13 (3) terminal $\leftrightarrow$ 3 terminal 12 (4) terminal $\leftrightarrow$ 4 terminal 10 (2) terminal $\leftrightarrow$ 2 terminal The number in parenthesis shows the terminal No. Yes No Does continuity exist between 13 (3), 12 (4) and 10 (2) Wire harness defective (Short circuit). terminals on the switch side or 3, 4, 2 terminals and body ground? Yes Connect the connector of power window motor. Connect the normal master switch or regulator switch and Master switch or regulator switch. check if AUTO UP and DOWN operates. No Power window motor defective.

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## 6 DOWN operates during door glass AUTO UP operation.



## 7 Even through a foreign object is caught, DOWN operation does not function.



8 After ignition switch has been turned OFF by using a key, power window function does not operate. No Driver's courtesy light switch defective. Is the driver 's courtesy light switch normal? Yes Remove the instrument controller and junction and disconnect the connector. Wire harness defective (between A20 terminal With the driver's door open, does continuity exist between A20 terminal of vehicle side connector and body ground? of the instrument controller and junction and driver's courtesy light switch) Yes Connect the connectors of the instrument controller and junction. No With the driver's door open, when turning the ignition Instrument controller and junction switch from ON to OFF, is there voltage of 10 to 14 V defective. between the C2 terminal of the instrument controller and junction and body ground? Yes Wire harness defective (between C2 terminal of the instrument controller and junction and 1 terminal of the power main relay).

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