

TROUBLE SHOOTING

Inspect power window circuit breaker (25-amp), located in left kick panel. Inspect fuse No. 28 (40-amp) in Intelligent Power Module (IPM). IPM is located on left side of engine compartment. Inspect ground at right "B" pillar.

SYSTEM TESTS

ALL WINDOWS INOPERATIVE

1. Check power window system circuit breaker and fuse. See **TROUBLE SHOOTING** . Replace components as necessary. If components are okay, go to next step.
2. Remove driver's power window switch. See **POWER WINDOW SWITCH** under REMOVAL & INSTALLATION. Turn ignition on. Using test light, connect ground lead to harness connector terminal No. 13 (Black/Brown wire). Check for voltage by touching test light probe to harness connector terminals No. 9, 11 and 14 (all White/Pink wires).
3. If test light does not illuminate, check power and ground circuits. See **WIRING DIAGRAMS** . If test light illuminates, ground circuit and power circuit between battery and switch are okay. Check switch and motor. See **POWER WINDOW SWITCH** and **POWER WINDOW MOTOR** under COMPONENT TESTS.

COMPONENT TESTS

VENT WINDOW MOTOR

1. Remove "D" pillar trim panel. See **"D" PILLAR TRIM PANEL** under REMOVAL & INSTALLATION.
2. Disconnect power vent window motor wire connector from body harness.
3. Using 2 jumper wires, connect one to a battery (+) source and the other to a good ground (-).
4. Connect the negative (-) jumper probe to one of the motor connector terminals.
5. Momentarily touch the positive (+) jumper probe to the other motor connector terminal. When the positive probe is connected, the motor should rotate in one direction to either move window open or closed. If window is all the way open or closed the motor will grunt and the crank system will flex when actuated in the one direction. Reverse jumper probes at the motor connector terminals and window should now move in the opposite position to verify full operation. If motor grunts and does not move with the motor connected in both directions, verify that crank system is not binding.

POWER WINDOW MOTOR

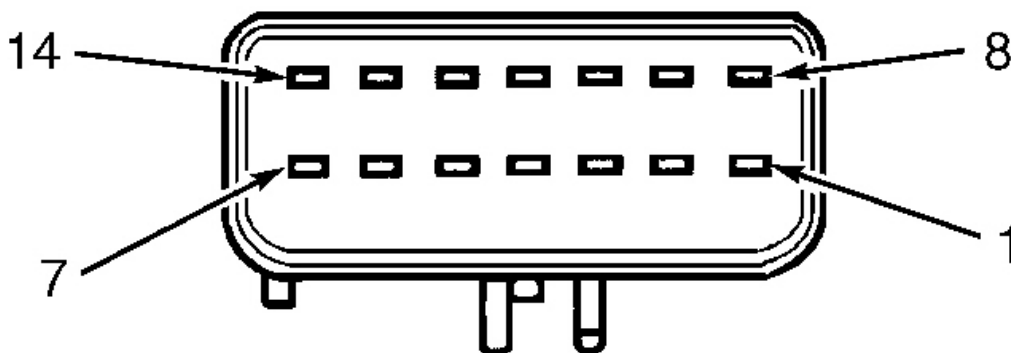
1. Remove door trim panel and sound pad. See **DOOR TRIM PANEL** under REMOVAL & INSTALLATION.
2. Disconnect power window motor wire connector from door harness.
3. Using 2 jumper wires, connect one to a battery (+) source and the other to a good ground (-).
4. Connect the negative (-) jumper probe to one of the motor connector terminals.



5. Momentarily touch the positive (+) jumper probe to the other motor connector terminal. When positive probe is connected the motor should rotate in one direction to either move window up or down. If window is all the way up or down the motor will grunt and the inner door panel will flex when actuated in that one direction.
6. Reverse jumper probes at the motor connector terminals and window should now move in opposite direction. If the window does not move or grunt, replace the motor. If the window moved completely up or down, reverse the jumper probes and cycle window to the opposite position to verify full operation. If motor grunts and does not move with motor connected in both directions, verify that regulator is not binding.

POWER WINDOW SWITCH

1. Remove window switch from door trim panel. See **POWER WINDOW SWITCH** under REMOVAL & INSTALLATION. Using an ohmmeter, check switch continuity. See appropriate WINDOW SWITCH CONTINUITY table. See **Fig. 1** or **Fig. 2**.
2. If the results are NOT OK, replace the drivers side window lift switch.
3. Test passenger door switch for continuity.
4. If the results are not OK, replace the switch. The power window master switch has a Auto-Down feature. The switch is equipped with 2 detent positions when actuating the power window OPEN. The first detent position allows the window to roll down and stop when the switch is released. The second detent position actuates an integral express roll down relay that rolls the window down after the switch is released. When the express down circuit senses stall current (window has reached end of down travel), the switch will turn current off to the motor. The AUTO feature can be cancelled by actuating the switch UP or DOWN while window is in motion. If the electronic circuit in the switch fails to detect a stall current, the auto down circuit will time out within 9 to 13 seconds.

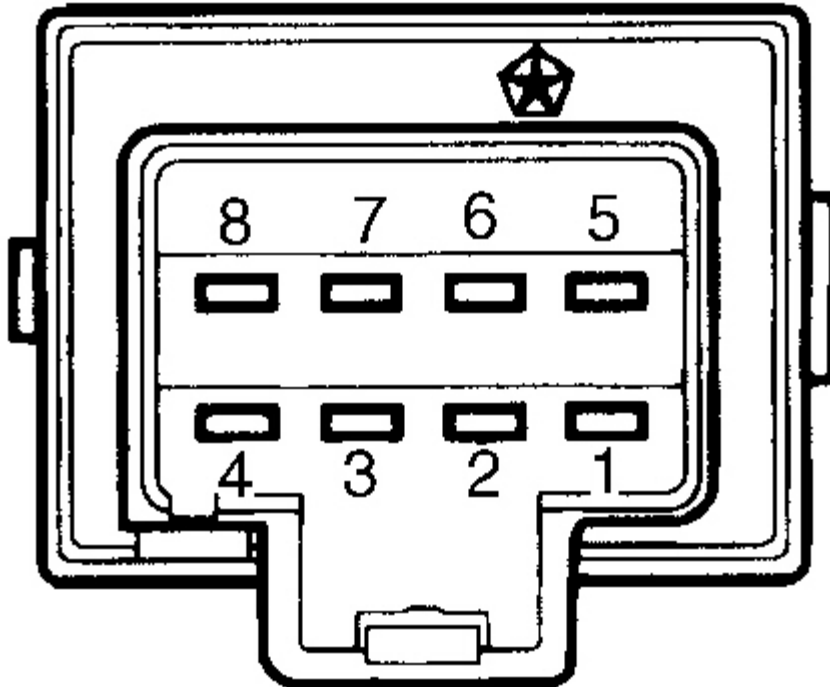


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Fig. 1: Identifying Driver's Window Switch Terminals
 Courtesy of CHRYSLER CORP.

2002 Chrysler Voyager LX

2002 ACCESSORIES & EQUIPMENT' 'Power Windows - Caravan, Town & Country, & Voyager



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Fig. 2: Identifying Passenger's Window Switch & Vent Switch Terminals
 Courtesy of CHRYSLER CORP.

DRIVER'S WINDOW SWITCH CONTINUITY

Switch Position	Continuity Between Terminals No.
Off	1 & 13; 2 & 13; 3 & 13; 4 & 13; 5 & 13; 6 & 13; 7 & 13; 8 & 13
Up	
Driver's Side	8 & 11
Passenger's Side	4 & 9
Down	
Driver's Side ⁽¹⁾	6 & 11
Passenger's Side	2 & 9
Auto Down	
Driver's Side ⁽¹⁾	6 & 11
Vent Open	
Driver's Side	7 & 11



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Passenger's Side	1 & 9
Vent Close	
Driver's Side	3 & 9
Passenger's Side	5 & 11
(1) Connect battery voltage to terminal No. 9 and ground to terminal No. 13 before testing.	

PASSENGER'S WINDOW SWITCH CONTINUITY

Switch Position	Continuity Between Terminals No.
Off	2 & 5; 3 & 8
Up	1 & 8
Down	1 & 5

WIRING VOLTAGE TEST

1. Remove the power window switch and bezel assembly from the driver door. See **POWER WINDOW SWITCH** under REMOVAL & INSTALLATION.
2. Disconnect wire connector from back of power window switch.
3. Turn ignition switch to ON position.
4. Connect the clip end of a 12-volt test light to pin No. 13 in door harness connector at the window switch. Touch the test light probe in pin No. 9 and then to pin No. 11. If the test light illuminates, the wiring circuit between the battery and switch is OK. If the lamp does not illuminate, first check the 25-amp circuit breaker attached to the electrical distribution wiring bracket. If the circuit breaker is OK, then check the 40-amp fuse No. 28 in the Integrated Power Module (IPM). If both components are OK, then check for a broken wire. See **WIRING DIAGRAMS**.

REMOVAL & INSTALLATION

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** before disconnecting battery.

"D" PILLAR TRIM PANEL

Removal & Installation (Driver's Side)

1. Remove rear header trim cover. Remove liftgate sill plate. On long wheelbase models, remove second rear seat belt turning loop. On short wheelbase models, remove bolt securing second rear seat belt lower anchor to quarter panel.
2. On all models, remove jack storage cover. Remove "D" panel retaining screws. Using a trim stick, gently pry around perimeter of "D" pillar trim panel and separate trim panel from inner quarter panel. Disconnect rear speaker connector (if equipped).



3. On short wheelbase models, pass seat belt through slot in "D" pillar. On all models, remove "D" pillar trim panel. To install, reverse removal procedure.

Removal & Installation (Passenger's Side)

1. Remove rear header trim cover. Remove liftgate sill plate. On long wheelbase models, remove second rear seat belt turning loop. On short wheelbase models, remove bolt securing second rear seat belt lower anchor to quarter panel. Remove quarter panel trim bolster.
2. On all models, remove "D" panel retaining screws. Disengage hidden "D" pillar trim panel clips. Separate "D" pillar trim panel from "D" pillar. Disconnect rear speaker connector (if equipped). Remove trim panel. To install, reverse removal procedure.

DOOR TRIM PANEL**Removal**

1. Remove the plug and remove screw attaching door pull cup to inner door panel.
2. Remove switch bezel and disconnect power window/memory switch.
3. Remove screws attaching trim panel to door from below map pocket.
4. Remove screw holding door trim to door panel from behind inside latch release handle.
5. Disengage clips attaching door trim to door frame around perimeter of panel.
6. Lift trim panel upward to disengage flange from inner belt molding at top of door.
7. Tilt top of trim panel away from door to gain access to latch linkage.
8. Disengage clip attaching linkage rod to inside latch release handle.
9. Separate linkage rod from latch handle.
10. Disconnect the power door switch, courtesy lamp electrical connectors.
11. Remove front door trim panel from vehicle.

Installation

1. Hold top of trim panel away from door to gain access to latch linkage.
2. Place linkage rod in position on latch handle.
3. Engage clip to hold linkage rod to inside latch release handle.
4. Place front door trim panel in position on door.
5. Install trim panel into inner belt molding at top of door.
6. Install clips to attach door trim to door frame around perimeter of panel.
7. If equipped, install screw to attach door trim to door panel behind inside latch release handle.
8. Connect power switch into wire connector.
9. Place power accessory switch in position on door trim.
10. Connect wire connector into memory seat/mirror switch and install switch into trim panel.
11. Install screws to attach accessory switch panel to door trim.
12. Install screw cover into switch panel.

13. If equipped, install screws to attach trim panel to door inside map pocket.
14. If equipped, install screw to attach door pull cup to inner door panel.
15. If equipped, install screws to attach door assist handle to inner door panel.
16. Connect wire connector into courtesy lamp.
17. Install lamp in door trim.
18. Install switch bezel.

POWER VENT WINDOW MOTOR

Removal

1. Disconnect and isolate the battery negative cable.
2. Remove "D" pillar trim panel. See **"D" PILLAR TRIM PANEL** .
3. Disconnect wire connector from power vent motor.
4. Using a flat-blade tool, carefully lift the circular actuator link tab. Remove link from window ball socket.
5. Remove bolts holding power vent motor to "D" pillar.
6. Remove power vent motor.

Installation

1. Obtain new vent window motor.
2. Snap the actuator link socket onto the quarter window ball socket. Using a soft rubber mallet, push the circular link tab flush with link surface.
3. Install bolts holding power vent motor to "D" pillar.
4. Reconnect wire connector to power vent motor.
5. Reconnect the battery negative cable.
6. Cycle quarter window open/close to verify function.
7. Install "D" pillar trim panel. See **"D" PILLAR TRIM PANEL** .

POWER WINDOW REGULATOR

Removal

1. Disconnect negative battery cable. Remove door trim panel. See **DOOR TRIM PANEL** .
2. Remove watershield.
3. Remove door glass retaining clips and secure the window in the up position using masking tape or equivalent.
4. Disconnect wire connector from power window motor.
5. Loosen screws attaching front and rear window guide rails to inner door panel.
6. Remove screw heads on guide rails from key hole slots in inner door panel.
7. Loosen screws attaching regulator to inner door panel.

8. Remove regulator from inner door panel.
9. Extract rear guide rail through inner door panel rear access hole. See **Fig. 3** .
10. Extract front guide rail through front access hole.

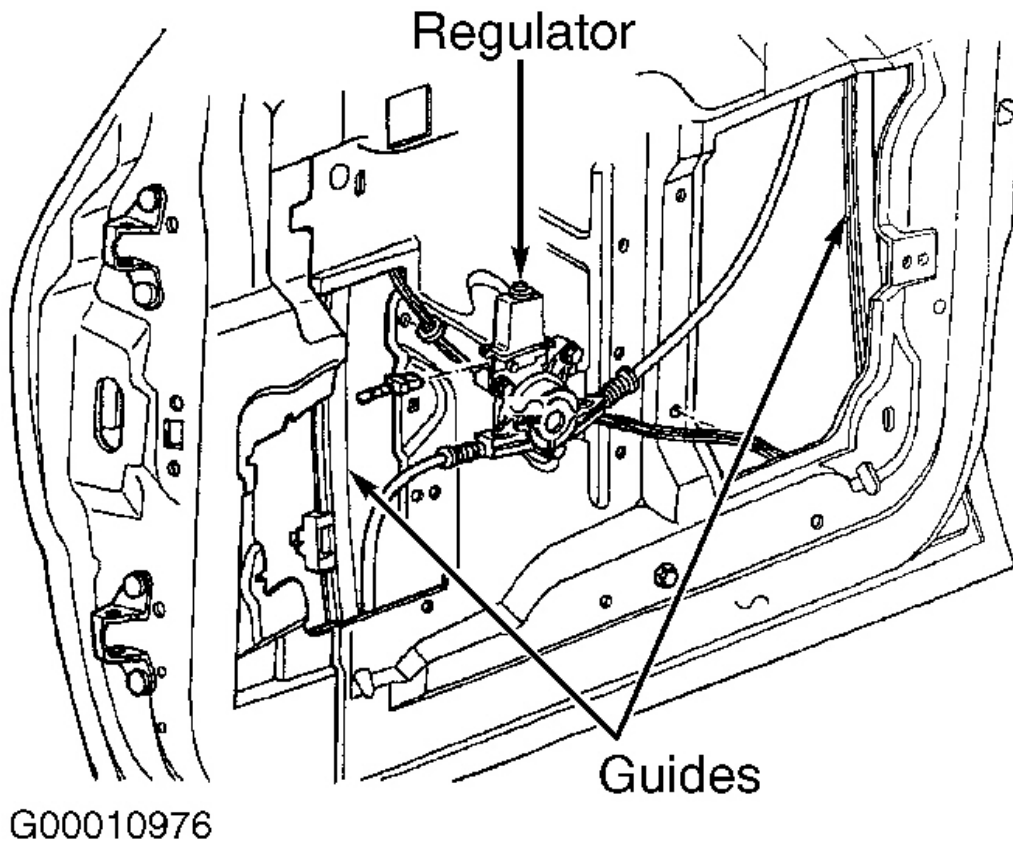


Fig. 3: Removing Power Window Regulator
Courtesy of DAIMLERCHRYSLER CORPORATION

Installation

1. Insert front guide rail through front access hole.
2. Insert rear guide rail through rear access hole.
3. Place window regulator in position on inner door panel.
4. Place screw heads on guide rails in position through key hole slots n inner door panel.
5. Tighten screws to attach front and rear guide rails to inner door panel.
6. Connect wire connector into power window motor.

7. Install door glass.
8. Verify door glass alignment and operation.
9. Install sound shield and door trim panel. See **DOOR TRIM PANEL** .

POWER WINDOW SWITCH

NOTE: **Power window switch is part of switch bezel. Entire bezel (except lock switch) must be replaced.**

Removal

1. Disconnect and isolate the battery negative cable.
2. Using a trim stick, start at the bottom of the switch and bezel assembly and pry up to remove the switch and bezel assembly from the door trim panel.
3. Unlatch the locking tab on the harness side connector of the switch.
4. Disconnect wire harness connectors from switch.

Installation

1. Reconnect wire harness connector to switch.
2. Insert switch into door trim panel and press into place.
3. Reconnect battery cable.

WIRING DIAGRAMS

See POWER WINDOWS in appropriate SYSTEM WIRING DIAGRAMS article.

