

Power Windows - Sedona

DESCRIPTION & OPERATION

A window switch, located at each door panel, controls voltage applied to its respective window motor. Driver-side master power window switch has 3 additional buttons for control of each passenger window.

With ignition on, battery voltage from P/WINDOW 30-amp fuse is applied to master power window switch. Driver can control power distributed to passenger window switches with a lock-out feature incorporated into master window switch. By toggling a window switch to desired position, power is supplied to appropriate window motor.

WARNING: Deactivate air bag system before performing any service operation. See **DISABLING & ACTIVATING AIR BAG SYSTEM** article. **DO NOT** apply electrical power to any component on steering column without first deactivating air bag system. Air bag may deploy.

NOTE: Anytime battery cables are disconnected from battery and then reconnected, theft deterrent system will operate (horn will sound and emergency lights will flash for about 3 minutes). To disarm system, insert ignition key and turn key to ACC position.

SYMPTOM TESTS

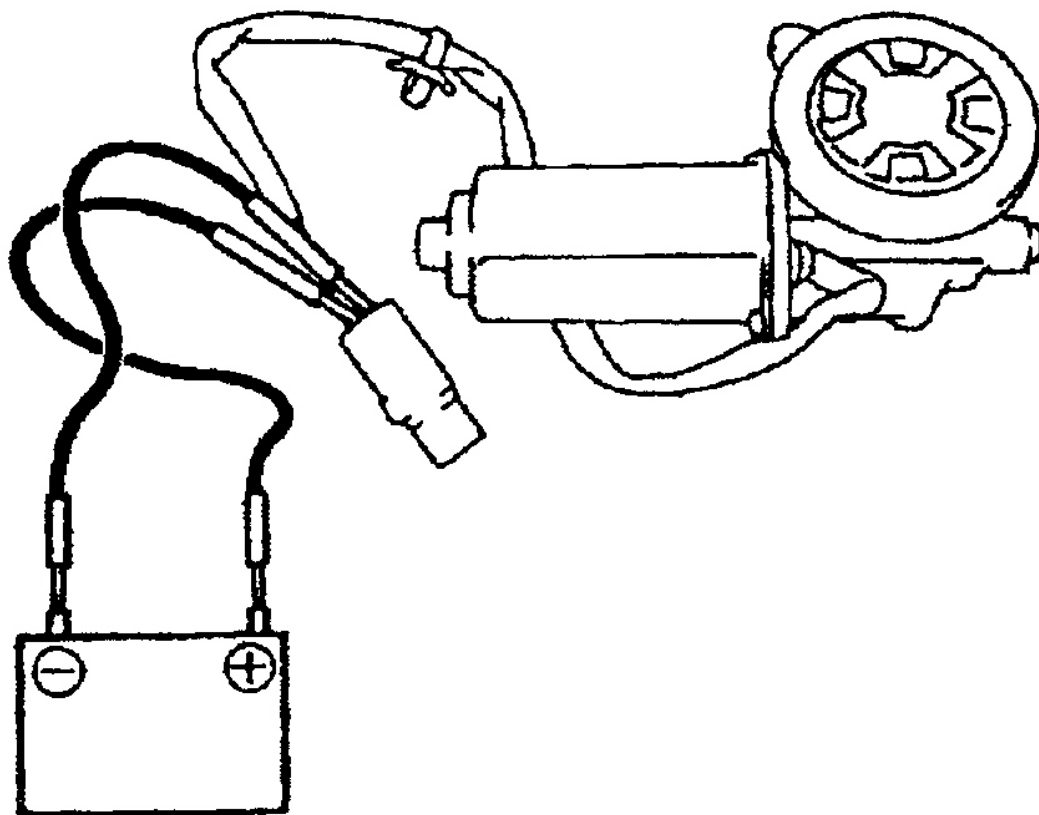
NOTE: Power window system symptom test procedures are not available from the manufacturer. For further diagnostic information, see **WIRING DIAGRAMS** .

COMPONENT TESTS

NOTE: Complete power window system component test procedures are not available from the manufacturer. For further diagnostic information, see **WIRING DIAGRAMS** .

MOTOR

1. Turn ignition off. Disconnect window motor harness connector. Using fused jumper wires, connect battery voltage and ground to terminals of motor harness connector. Motor should run. See **Fig. 1** .
2. Reverse leads. Motor should operate in opposite direction. If operation is not as specified, replace window motor.



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Fig. 1: Testing Power Window Regulator Motor
Courtesy of KIA MOTORS AMERICA, INC.

MASTER POWER WINDOW SWITCH

Turn ignition switch to OFF position. Disconnect master power window switch harness connector. Using an ohmmeter, check for continuity between specified switch terminals while operating switch. See **MASTER POWER WINDOW SWITCH CONTINUITY** . See **Fig. 2** . If continuity is not as specified, replace master power window switch. Retest system.

MASTER POWER WINDOW SWITCH CONTINUITY

Application & Switch Position	Continuity Between Terminals No.
Left Front	
UP	2 & 7
OFF	1, 2 & 8
DOWN	1 & 7
Right Front	

UP	1 & 8
OFF	1, 2 & 8
DOWN	2 & 8
Right Rear	
UP	4 & 7
OFF	3, 4 & 8
DOWN	3 & 7
Left Rear	
UP	3 & 8
OFF	3, 4 & 8
DOWN	4 & 8

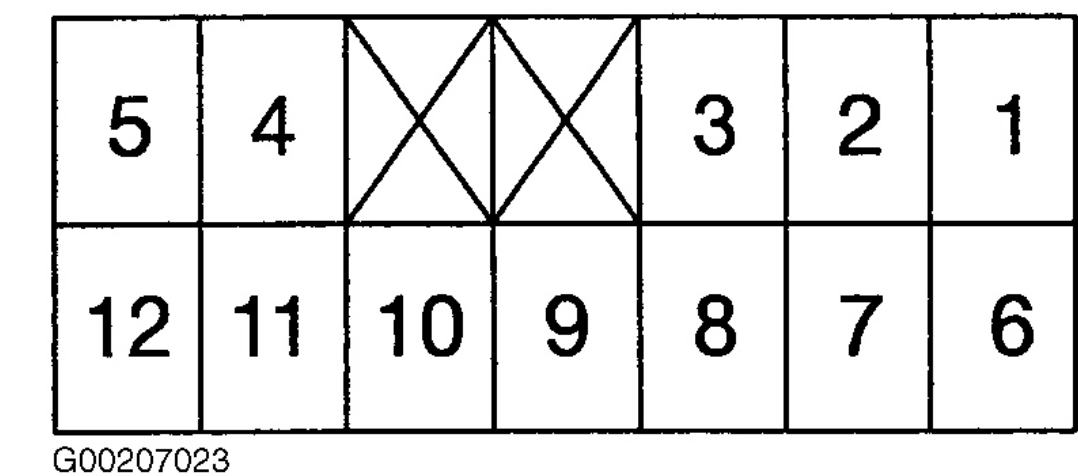


Fig. 2: Identifying Power Window Main Switch Terminal
 Courtesy of KIA MOTORS AMERICA, INC.

PASSENGER POWER WINDOW SWITCHES

Turn ignition off. Disconnect appropriate passenger power window switch harness connector. Using an ohmmeter, check for continuity between specified switch terminals while operating switch. See **PASSENGER POWER WINDOW SWITCH CONTINUITY** . See **Fig. 3** . Replace passenger power window switch if continuity is not as specified.

PASSENGER POWER WINDOW SWITCH CONTINUITY

Switch Position	Continuity Between Terminals No.
UP	1 & 3; 2 & 5
OFF	1 & 3; 2 & 7

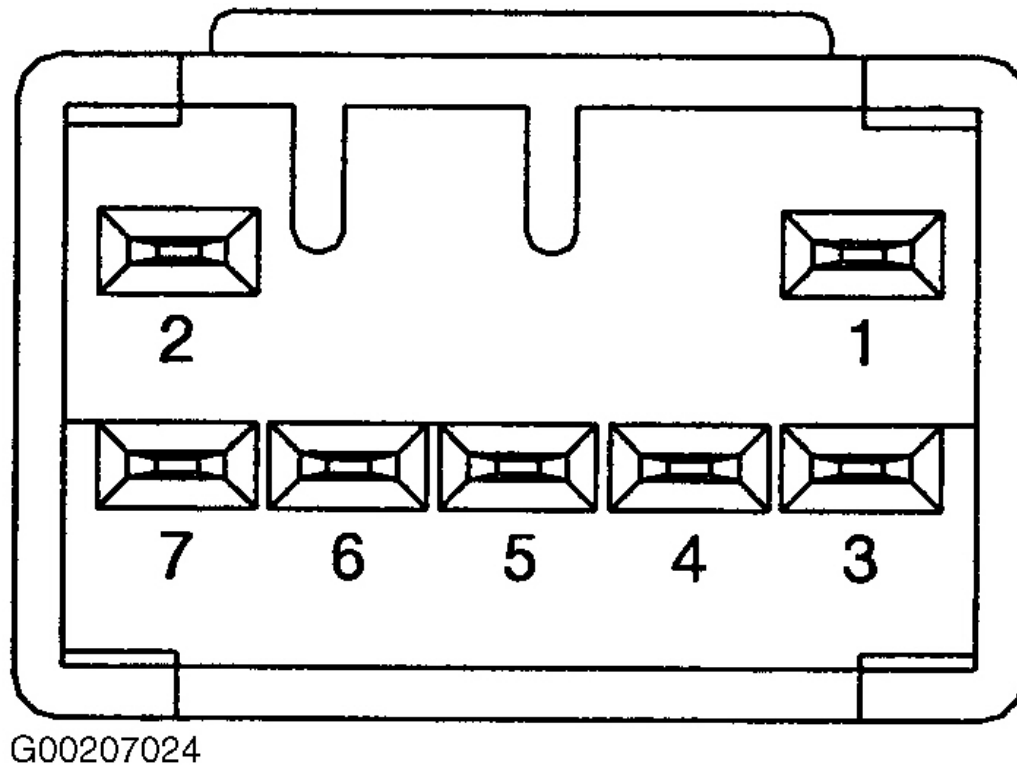


Fig. 3: Identifying Passenger Power Window Switch
Courtesy of KIA MOTORS AMERICA, INC.

QUARTER GLASS MOTOR

Apply battery voltage to terminal No. 1 and ground terminal No. 2. Check that motor turns. See **Fig. 4** . Reverse connections and check that motor turns in the opposite direction.

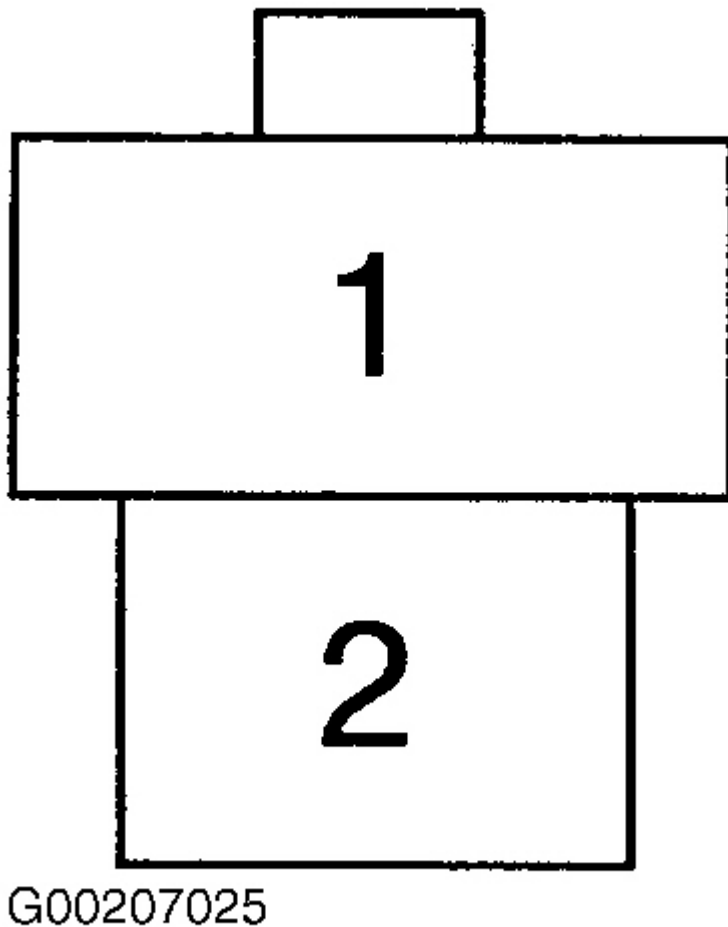


Fig. 4: Identifying Quarter Glass Motor Terminals
Courtesy of KIA MOTORS AMERICA, INC.

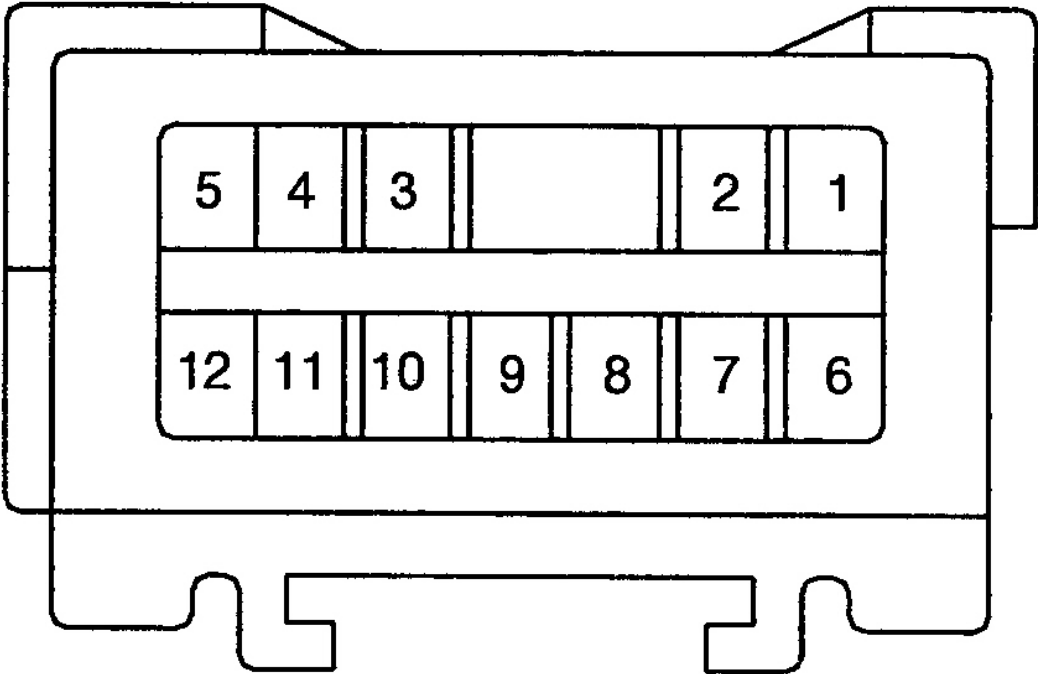
QUARTER GLASS SWITCH

Operate switch and check for the specified continuity between the terminals. See **QUARTER GLASS SWITCH CONTINUITY** . See **Fig. 5** . If the continuity is not as specified, replace the switch.

QUARTER GLASS SWITCH CONTINUITY

Application	Continuity Between Terminals No.
Right	1 & 8
Open	

Close	6 & 8
Left	
Open	
Close	



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Fig. 5: Identifying Quarter Glass Switch Terminals
 Courtesy of KIA MOTORS AMERICA, INC.

REMOVAL & INSTALLATION

WARNING: Deactivate air bag system before performing any service operation. See DISABLING & ACTIVATING AIR BAG SYSTEM article. DO NOT apply electrical power to any component on steering column without first deactivating air bag system. Air bag may deploy.

WINDOW MOTOR REGULATOR ASSEMBLY

Removal

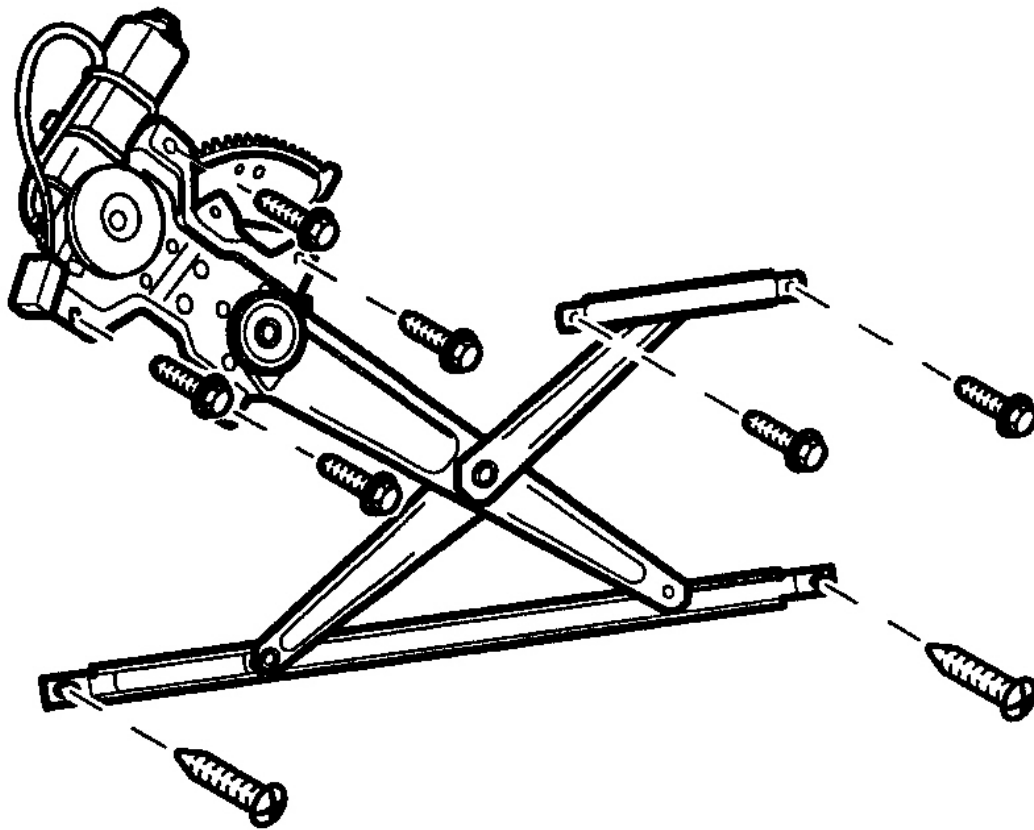
1. Disconnect negative battery cable. Remove door trim by removing speaker garnish. Remove door handle cover, screw and cover. Remove door handle pull screw and door handle. Remove caps and screw located

on left side of door trim. Unfasten and lift door trim. Remove door trim and disconnect power window switch connector.

2. Remove pull handle bracket and door speaker. Carefully peel back plastic water shield. Temporarily reconnect window switch and negative battery cable. Turn ignition switch to ON position and lower window about halfway. Turn ignition switch to OFF position. Disconnect negative battery cable. Remove 2 glass-mounting bolts from window regulator.
3. Remove window glass carefully by tilting it toward hinge side of door and removing from outer side of door frame. See **Fig. 6** . Disconnect power window motor harness connector. Remove 6 regulator-to-door frame nuts. Remove window motor regulator assembly from access hole in door. Unbolt and remove glass guide and bolt.

Installation

1. Install glass guide and one bolt loosely. Install window motor regulator assembly through access hole in door. Reconnect window motor harness connector.
2. Install window glass by tilting toward hinge side of door. Place glass on small bracket on window regulator. Loosely install 2 window-to-regulator bolts. Reconnect window switch and negative battery cable.
3. Turn ignition on and operate window up and down to ensure correct operation. To complete installation, reverse removal procedure.



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Fig. 6: Removing Regulator Assembly
Courtesy of KIA MOTORS AMERICA, INC.

WINDOW SWITCH

Removal & Installation

Disconnect negative battery cable. Release clips or remove screws retaining switch panel to armrest. Remove switch panel from armrest. Disconnect harness connectors. Remove window switch from switch panel. To install, reverse removal procedure.

WIRING DIAGRAMS

See **POWER WINDOWS** in SYSTEM WIRING DIAGRAMS article in ELECTRICAL.