

## GENERAL MOTORS DOOR WINDOW

Chevrolet  
GMC

### DESCRIPTION

#### DOOR WINDOWS

Window regulators are individually powered by a 12 volt reversible motor located in each door. The motor contains an internal circuit breaker requiring 1 to 3 minutes to reset. The motor, bolted to the regulator assembly, utilizes a selflocking gear drive. A 2-way control switch is located on each door, with a master control switch located on left door. The window cannot be operated from the door control switches until the ignition is turned on.

#### CIRCUIT BREAKER

A 30-ampere circuit breaker of the plug-in type is mounted on the fuse panel for all GM and GMC.

#### CONTROL SWITCHES

In addition to individual control switches adjacent to individual windows, a master control switch is mounted on the left door trim pad.

#### ACCESSORY JUNCTION BLOCK

Located on the reinforcement at the left shroud and used to supply current to power operated circuits. Current is supplied to junction block from the circuit breaker. The power window harness plugs into the junction block.

### TROUBLE SHOOTING

#### WINDOWS WILL NOT OPERATE WITH IGNITION ON

Open circuit or short in power feed circuit. Switch defective.

#### RIGHT WINDOW OPERATES WITH MASTER SWITCH BUT WILL NOT OPERATE WITH RIGHT CONTROL SWITCH, LEFT WINDOW OPERATES

Open circuit or short in front harness feed circuit.

### TESTING

#### CIRCUIT BREAKER

Check power feed to circuit breaker, with no power available, feed wire is open or shorted. Test breaker output terminal, if power fails, breaker is inoperative

#### MASTER CONTROL SWITCH

Check power feed Pink wire at switch, if power fails, test wire between relay and master switch.

#### WINDOW CONTROL SWITCH

1) Connect one lead of test lamp to switch connector feed wire and ground other lamp lead. If lamp does not light, an open short circuit exists between switch and power source.

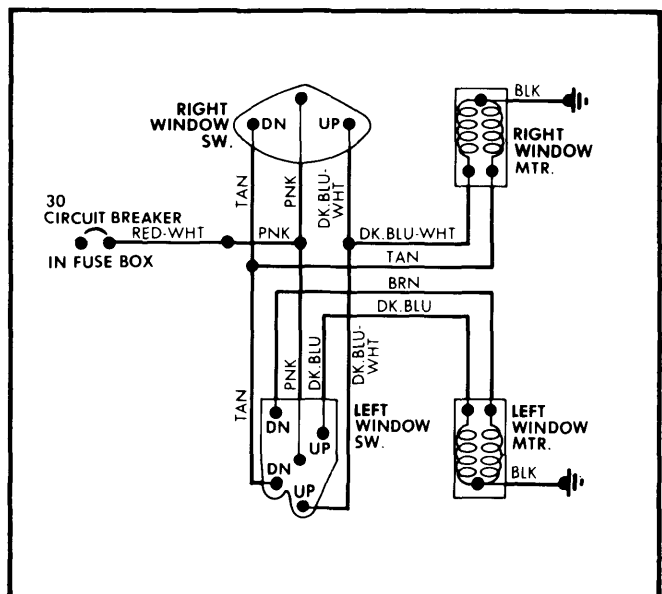
2) Insert one end of a jumper wire in switch connector and other end of jumper to motor lead in connector. Repeat procedure for motor lead terminal. If motor operates with jumper wire but does not operate with switch, replace switch.

#### WINDOW SWITCH TO WINDOW HARNESS

Disconnect harness connector from motor. Insert one end of a jumper wire in switch connector and other end of jumper to motor lead in connector. Using a test lamp, check for current at motor connector. If lamp does not light, switch to motor harness is shorted or has open circuit. Check other terminal using same procedure.

#### WINDOW MOTOR

Check Power feed to motor terminals, if power is available, check motor ground. Inspect window regulator and channels for possible binding. Connect a jumper wire to the other motor terminal. Motor should operate window up and down, if not, replace motor.



**Fig. 1 General Motors Light Truck Power Window Wiring Diagram**

## GENERAL MOTORS DOOR WINDOW (Cont.)

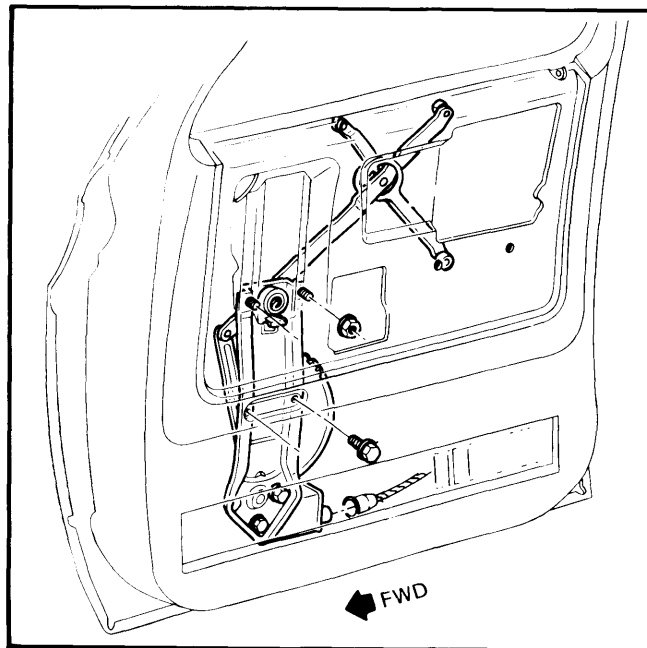
### REMOVAL & INSTALLATION

#### WINDOW REGULATOR MOTOR

- 1) Disconnect battery ground cable and remove door trim panel, arm rest and pull assist brackets.
- 2) Raise glass to full "UP" position and tape to door frame using cloth body tape.
- 3) Remove regulator attaching nuts and bolts, disconnect harness from motor regulator.
- 4) Slide regulator assembly rearward, disengaging roller from sash channel and remove regulator assembly through access hole in door.
- 5) Drill hole through sector gear and back plate. Do not drill hole closer than  $\frac{1}{2}$ " to edge of gear or plate.

**CAUTION** – Sector gear must be locked when removing regulator to prevent injury from counterbalance spring.

- 6) Remove motor from regulator. Remove motor-to-regulator attaching screws and remove motor from regulator.
- 7) To install, reverse removal procedures.



**Fig. 2** General Motors Power Window Regulator, Motor and Connector