



## Window Lift Motors

Refer to the authorized original equipment service manual for detailed installation instructions. If you do not have the experience, proper tools or manuals, please seek the services of a qualified technician.



**Replacement Time:**

< 2 hrs

### COMMON SYMPTOMS

- Inoperable
- Intermittent or erratic operation
- Reduced torque or speed
- Grinding noise
- Binding or frozen
- Bounce back at full close on express-up windows

### BEFORE YOU INSTALL

- Resistance in ground path to motor, corrosion damage and/or mechanical damage to the wiring, contacts, connectors or control switch can mislead someone into thinking the problem is with the motor. Make sure the motor is properly grounded. Check the wiring harness from the vehicle for damaged insulation that can cause electrical shorts. Do a wiggle test and check for continuity if a broken wire is suspected. Check for proper voltage supply to the motor.
- Motors are often damaged due to water intrusion; replace any weatherstrips that are dry-rotted, cut or not pliable. If the vehicle's door has water drains, remove any debris that might block or restrict the flow of drain water.
- If original motor is covered by a splash guard or protective encasement, be sure that the replacement motor is installed the same way.
- Before installing replacement motor, visually inspect vehicle harness connector locking latches and keyways. Replace connector if damaged.
- If vehicle is equipped with a cable-type regulator, make sure regulator cable hold-down is not broken or missing. If the hold-down is broken or missing this may allow the cable to snag on the window regulator bracket as the window is raised, producing noisy operation or a popping sound that could be misdiagnosed as a window lift motor or regulator problem. Install a new hold-down or suitable substitute.



**SKILL LEVEL:**

Service Technician

C

or higher

### TIPS

- Secure the glass while working on the motor or regulator to prevent it from dropping and breaking.
- Lubricate the running surfaces of the regulator mechanism with high-temperature urethane-based grease before installation.
- Secure any wire harness or cable that may snag on the window regulator while in motion.
- In order to prevent injury, do not operate the window mechanism while any body part is near the window regulator mechanism.
- Do not install using smaller gauge wiring or connectors that may not be able to handle the electric current.
- Do not remove a motor from an unlocked regulator with an energized spring. Clamp or secure by drilling a hole through the regulator gear and frame. Then install a bolt with a nut and washers to lock the regulator and avoid sudden release.
- Tighten securely, but do not over-tighten clamps or brackets that hold the glass.
- Inspect all door weather-stripping inside and out for dry-rot, wear and alignment. Repair or replace as necessary.
- Ensure both side tracks are aligned, the felt inserts are lubricated and the felt is not worn out. Repair or replace any part of the track that is bent or worn.
- Lubricate side track felt and weather-stripping for smooth glass operation. This may require an overnight soak to allow the lubricant to penetrate (refer to your vehicle's factory service manual for approved lubricant and procedures).
- Check the regulator for worn, bent or binding arms, rollers, pivot points and spring. On cable-type regulators, check cables and cable tracks.
- A bad regulator usually results in a window that sticks or binds.
- Check the switch for dirty contacts and proper operation. Dirty contacts will cause excessive resistance that prevents the motor from operating at full power, resulting in poor performance. Clean with electrical contact cleaner if possible or replace as necessary.
- When replacing the motor, lubricate the moving components of the regulator with grease.
- Test all functions of the window before replacing the interior door panel to complete the installation.

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