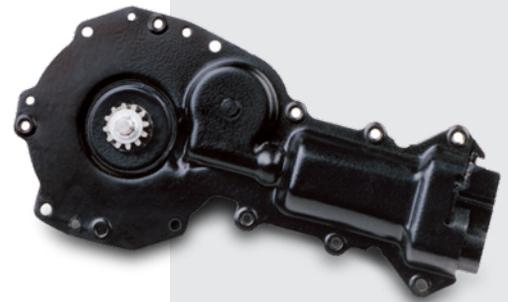


Remanufactured **WINDOW LIFT MOTOR**

CARDONE Remanufactured Window Lift Motors are direct-fit O.E. replacements that began as original cores. Each unit is re-engineered, built and tested to match O.E. performance. For nearly half a century, CARDONE Remanufactured Window Lift Motors have provided rock-solid reliability that you can trust for the long haul.

- Each motor is 100% tested. Testing includes loading the motor on a simulated window fixture to verify speed and strength of the motor.
- For motors which have an auto up / down feature, output signals and pulse counts are matched to the vehicle application and motors are shipped in the 'full up position'.
- Every motor has its internal components inspected and gauged. Bushings are gauged and re-impregnated with lubricating oil, ball bearings are replaced with new and armatures are fully tested to ensure insulation.
- Internal gears are gauged, inspected and renewed for reuse or replaced if out of spec. Replacement gears are redesigned with a stronger, less brittle material than O.E. to prevent premature wear, stripping and breakage.
- Motor magnets are 100% recharged, guaranteeing efficiency and reliability.
- Every remanufactured motor is assembled with the precise amount of lubricant to ensure quiet operation and long life.
- Every remanufactured motor is fully compatible with the O.E. mounting and regulator.



- Product Description
- Features and Benefits
- Signs of Wear and Troubleshooting
- FAQs

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Tech Service: 888-280-8324

Rev Date: 082118

Signs of Wear and Troubleshooting

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

Product Description

Features and Benefits

Signs of Wear and
Troubleshooting

FAQs

FAQs

Why does my 2-wire window lift motor only run in one direction?

- The vehicle may have faulty wiring or a defective control switch. Most 2-wire window lift motors depend on a voltage polarity change to control direction. If the motor runs in one direction but not the other, the problem is most likely in the wiring or switch. On some older GM applications, the ground is always applied to the motor body, with direction switching being controlled by which of the two pins receives voltage.

My window lift motor is moving slowly, binding and is very noisy when operated. What could be causing the problem?

- Dry or worn weather-strip and tracks, dirty switch contacts, or damaged window regulator could be causing these problems.

What causes noisy operation or popping on a window lift motor with a cable-type regulator design?

- Noisy operation or a popping sound can be misdiagnosed as a window lift motor problem. What may actually be happening is the regulator cable hold-down may be broken or missing; this would allow the cable to snag on the window regulator bracket as the window is raised, producing the noise. Install a new hold-down or suitable substitute.

Can I bench-test a case grounded motor?

- Most 2-terminal or 2-wire motors are grounded through the control switch; however, some older applications use the motor housing as a common ground. If power supply and ground are applied directly to the terminals of a motor with this design, an internal short may result. These motors require a battery ground be directly applied to the housing, and then power can be applied to either terminal.

My window drops 2 to 3 inches from the upper window channel, then stops when I use the “Auto-Up” feature in my Toyota or Nissan. What’s causing this?

- The likely cause is a window lift motor that was bench-tested or operated before being installed into the window regulator. This action cancels the upper limit position. All express up/down motors are shipped in the “full up” position and should not be bench-tested until fully coupled with the regulator. If disturbed, the motor’s travel limits must be set for the motor to know whether the window is closed or open. Follow the correct procedure as stated in a vehicle specific service manual or web-based tutorial to set travel limits.

What’s an anti-pinch safety feature?

- The anti-pinch safety feature prevents the window glass from reaching the end of its upward travel when the system senses an obstacle in the path of the glass.

How can I tell if my vehicle has an anti-pinch window lift motor?

- A motor equipped with an anti-pinch safety feature typically has 5 or more terminals or pins as well as an express-up feature on the window switch.

How does the anti-pinch safety feature work?

- An external module monitors the rotation of the internal gear. If there is a change in the pulse train of the sensor before the window is fully closed, the module will interpret this change as something preventing the window from moving easily, which causes the module to change polarity to the motor to reverse its direction.

Do all vehicles with power windows have an anti-pinch safety feature?

- The anti-pinch feature was introduced by Opel in 1986. Most vehicles built after 2008 with an auto-up and auto-down switch have an anti-pinch safety feature.

Is it necessary to reset a motor that has the anti-pinch safety feature after installation?

- Not if the motor is installed and is not disturbed from its factory-set position. If the motor is operated before being coupled to regulator, then it will need to be reset.