

# WINDOW REGULATORS - REMOVAL AND INSTALLATION

## REQUIRED TOOLS:

- Flat Blade and Phillips Screwdrivers
- Wrench
- Safety Glasses
- Ratchet Wrench
- Ratchet Extensions
- Sockets
- Hammer and Punch
- Drill Motor and Various Drill Bits 3/16" – 1/4"
- Rivet Gun and Rivets

## PRIOR TO REMOVAL

Please read the following instructions before installation.

## REMOVAL INSTRUCTIONS

### DOOR PANEL AND TRIM

1. To have full access to the door interior, raise window to the full up position.
2. Remove the necessary attached trim (armrest, pull strap, etc.) before removing the door panel.

**NOTE:** Special tools are available to disengage retaining clips off the door panel; however a carefully placed flat blade screwdriver will also work. Use care to avoid scratching the paint.

### WINDOW LIFT MOTOR

1. Located around the perimeter of the door panel are approximately eight (8) plastic fasteners that must be pried away from the door. There may also be screws in various places (screws are usually covered by trim caps or other interior trim).
2. Lift door panel up to disengage from top of door.
3. Disconnect all connectors from door panel to door.
4. Carefully remove the door lining so it can be reinstalled when installation is complete.

**⚠ CAUTION:** IN SOME CASES, IF YOU REMOVE THE MOTOR, THE WINDOW MAY DROP DOWN INTO THE DOOR AND SHATTER THE GLASS. BEFORE REMOVING THE MOTOR, TAPE THE WINDOW TO THE DOOR FRAME USING A CLOTH TAPE, OR PROP THE WINDOW IN PLACE WITH TWO RUBBER DOORSTOPS.

### REMOVING MOTOR AND REGULATOR TOGETHER

1. Remove all screws or drill out all rivets holding the regulator to the door.
2. Lower the window enough to provide access to the bolts attaching the regulator to the window. The bolts may be accessible with the window in the full-up position on some models.
3. Secure the window in place, as cautioned above, and remove the bolts.
4. Disconnect the motor's wire harness, disengage regulator from window and any fixed tracks.

5. Lift the motor and regulator out of the large access hole in the door.

**⚠ DANGER:** IF IMPROPERLY HELD IN PLACE THE REGULATOR COULD SHIFT SUDDENLY AND CAUSE A SERIOUS INJURY. BEFORE REMOVING THE WINDOW LIFT MOTOR FROM THE REGULATOR – CHECK YOUR REGULATOR. IF EQUIPPED WITH A “LIFT ASSIST” SPRING (COILED FLAT SPRING MOUNTED TO THE REGULATOR) YOU MUST LOCK THE REGULATOR ARM OR SECTOR GEAR AND MOUNTING PLATE TOGETHER WITH A HEAVY-DUTY CLAMP. SOME REGULATORS HAVE A HOLE IN THE ARM AND MOUNTING PLATE THAT WILL ACCEPT A BOLT AND NUT TO LOCK THE TWO PARTS TOGETHER.

3. After checking for the assist spring and locking the arm in place, remove the bolts attaching the motor to the regulator.
4. Apply a small amount of grease to the teeth of the drive gear and on the sector gear of the regulator.
5. Replace the motor, making sure the gears engage before you bolt the new motor in place.
6. Remove the clamp or bolt/nut securing the regulator arm or sector gear to the mounting plate of the regulator.

### **INSTALLATION INSTRUCTIONS**

1. Reinstall regulator assembly into door and attach window. If necessary use new 3/16 in. bolts with nuts and lock washers in place of the original equipment rivets.
2. Reinstall the lining, reconnect all connectors to door panel and test window.
3. Reinstall door panel.