

INSTALL/REMOVAL INSTRUCTIONS: WINDOW REGULATOR

ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

General Tech Tips:

- Use painter's tape rather than duct tape to secure window. It will not damage paint or leave sticky residue.
- A plastic pry tool is useful. It will not easily damage delicate trim like a screwdriver or metal pry bar.
- The replacement regulator should have a liberal amount of grease on slide area. If there is not much grease present, white lithium grease works well to lubricate the slide area.
- Aftermarket window tinting can cause the window to travel slower and put additional strain on the window regulator assembly.
- Window run channels should be cleaned and lubricated before installation of a new window regulator assembly. Silicone spray works well.

NOTE:

Disconnecting the negative battery cable is always recommended for safety reasons. Be certain that you know the implications of disconnecting the battery before doing so. For example: radio code information, clock and radio settings, PCM relearn, OBD II readiness monitor reset.

Window Regulator Removal:

STEP 1: Gain access to the window regulator by removing the interior trim panel.

STEP 1a: The interior trim panel is typically held to the door using a variety of screws an/or hidden panel retainers (**Photo A**). Metal screws are usually used to secure the handle area to the door (**Photo B**). Look for screws under reflectors and trim pieces. Remove all screws. Disconnect any electrical connections and if necessary remove switch from panel.

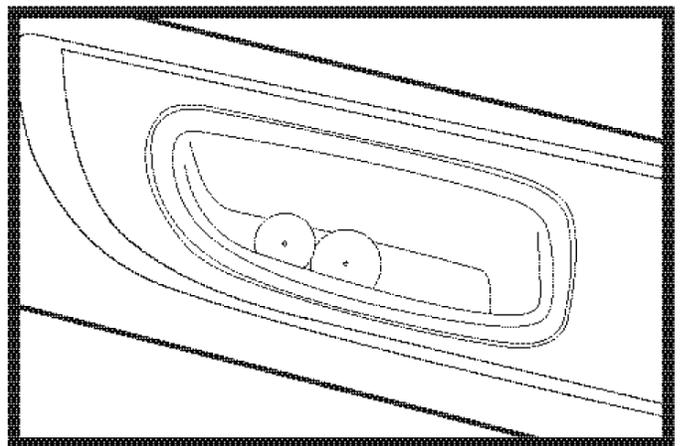


Photo A

Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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STEP 1b: Once all of the screws are removed and electrical plugs are disconnected, unsnap the panel retainers from the bottom of the door using a suitable tool (**Photo C**). Remove the trim panel by pulling the bottom away from the door while lifting the top of the panel off of the door.

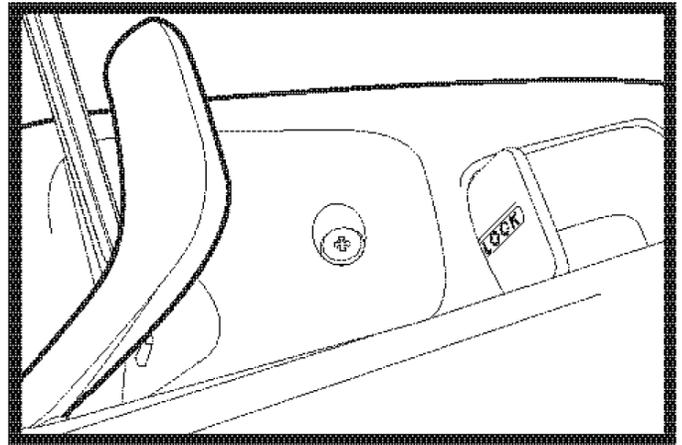


Photo B

STEP 1c: Peel back the plastic water barrier sheeting enough to be able to remove the regulator.

STEP 2: Remove window regulator from door.

STEP 2a: The window regulator will be fixed to the door using bolts or rivets. The regulator will usually be attached to the window glass sashes with bolts. Before removing any bolts or rivets, be sure to have method to secure glass from dropping.

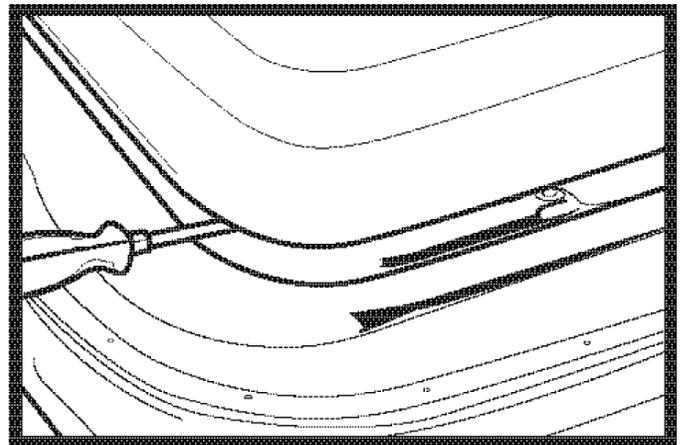


Photo C

STEP 2b: Remove bolts or rivets. Rivets can be removed by drilling the center of each out or by knocking the heads off with a chisel and pushing the rivet out (**Photo D**). It may be necessary to maneuver the glass up or down to gain access to the bolts that hold the regulator to the glass. If the glass cannot be moved, it may be necessary to unbolt the regulator from the door first. Make sure that the glass is properly supported.

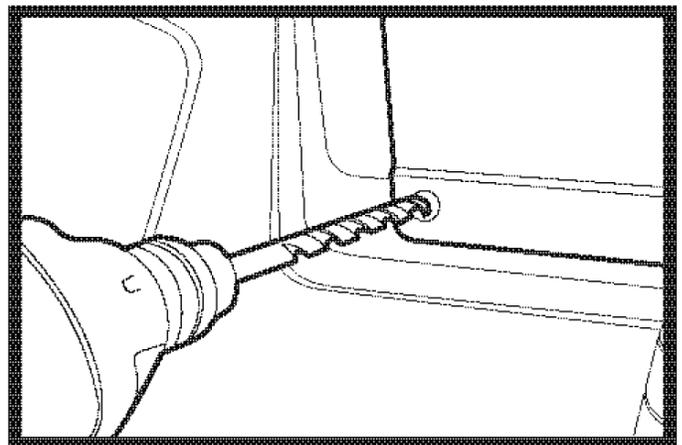


Photo D

STEP 2c: Disconnect plug from motor and remove regulator from door.

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Prior to Installing New Window Regulator:

STEP 1: Make sure that glass sashes are in good condition and are properly affixed to the window glass.

STEP 1a: It may be necessary to replace the sashes if they are damaged or old glue buildup is excessive (**Photo E**). If re-gluing is necessary, make sure to use appropriate adhesive.

STEP 2: Check window run channels for bends or weather-stripping that is in poor condition. Replace as necessary.

STEP 3: Lube rubber run channels with spray silicone lubricant.

STEP 4: Make sure door drain holes are clear so that moisture does not buildup in door.

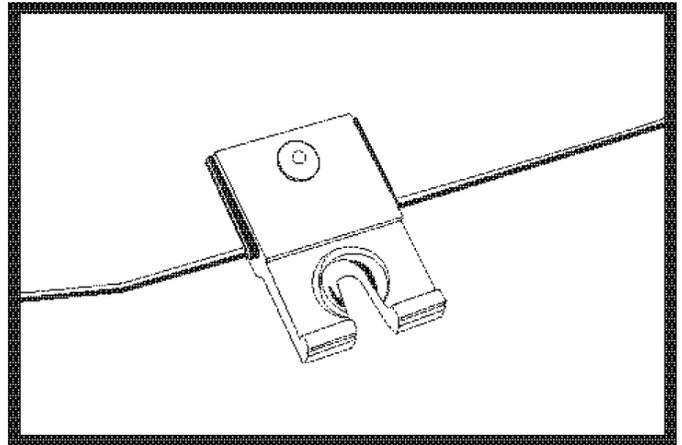


Photo E

If Original Motor is Being Reused: Removing/Installing Motor From/To Regulator:

Cable Style Regulator:

STEP 1: Remove screws, bolts or rivets and detach motor from spool.

STEP 2: Check motor for obvious signs of wear.

STEP 3: Replace if necessary with new motor.

STEP 4: Reattach motor to regulator.

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Sector Gear/Scissor Style Regulator:

NOTE: This regulator style typically contains a highly tensioned spring that can become a dangerous projectile if not removed with care. The sector gear must be secured prior to removing the motor.

STEP 1: Secure gear plate to mounting bracket by drilling a hole through the center of the gear and gear plate and installing a bolt and nut to hold them together (**Photo F**)

STEP 2: Remove screws, bolts or rivets and detach motor from bracket and gear.

STEP 3: Check motor for obvious signs of wear.

STEP 4: Reattach motor to regulator.

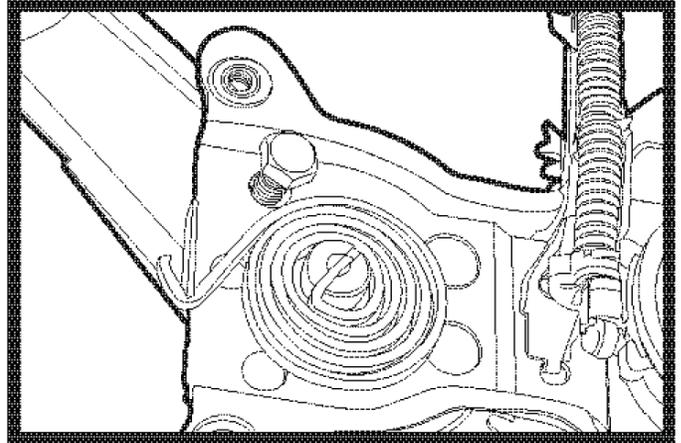


Photo F

Window Regulator Installation:

STEP 1: Set regulator into door and attach with proper hardware.

STEP 2: Maneuver glass and regulator together to match up mounting points.

STEP 3: Attach glass to regulator.

STEP 4: Plug in switch temporarily and run window up and down to ensure that it moves freely.

STEP 5: Replace plastic water barrier sheeting.

STEP 6: Check trim panel retainers for brittleness and replace as necessary.

STEP 7: Replace trim panel, switch and anything else removed.

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