

(3) Remove three (3) mounting screws that hold motor gearbox to regulator. Remove third screw that secures motor tie-down bracket to inner panel if so equipped. There are three holes in inner panel which provide access to three (3) mounting screws that secure gearbox to regulator (Fig. 3).

(4) To remove motor from regulator, grip motor housing and pull motor toward outer panel. Some rocking or twisting action may be necessary to disengage motor from regulator. Do not have any hands or fingers in sector gear area where they can be pinched by small movements of regulator linkage.

Installation

(1) Install new motor on regulator by positioning motor gearbox so that it engages regulator sector teeth.

(2) Position motor so that center post gearbox fits into its pilot hole in plate. A slight rotational or rocking movement may be necessary to bring three motor gearbox screw holes into proper position.

(3) Install three (3) gearbox screws and one tie-down bracket screw, if applicable. Torque to 50 to 60 in. lbs. (68 to 81 N·m).

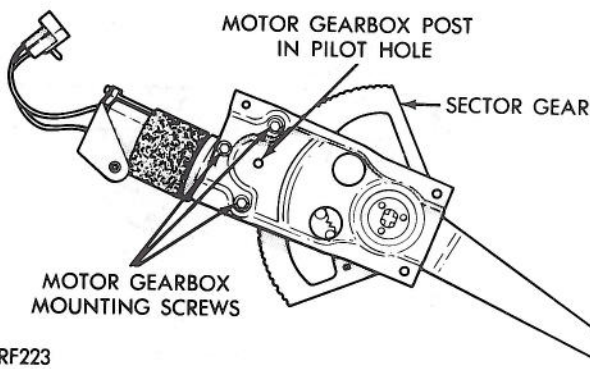
(4) Reconnect pigtail wiring harness connector.

(5) Remove window block.

(6) Actuate regulator with switch to verify satisfactory operation.

BENCH REPAIR OF REGULATOR AND MOTOR

To repair or inspect the entire electric window regulator, remove from door as follows:



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Fig. 3—Electric Motor Mounting (Typical)

(1) Disconnect wiring connector from motor.

(2) Remove three (3) attaching rivets that hold regulator to inner panel. Remove screw that secures motor tie down bracket to inner panel if so equipped.

(3) Maneuver regulator assembly by hand to disengage the drive arm slider from the glass lift channel. Remove from door.

BENCH REPAIR

If entire regulator is not being replaced, repair as follows:

Disassembly

(1) Remove regulator as described above.

(2) Secure regulator in vise to prevent sector gear from rotating.

(3) Remove counter balance spring. (Must be done for safety before removing motor).

(4) Remove three (3) motor attaching screws and remove motor.

(5) Inspect regulator for:

(a) Sector gear teeth must not be broken or severely worn.

(b) All rivets and sliders must be securely attached.

(c) Parts must not be bent or cracked.

(d) Sector gear must rotate freely.

(e) Perform window lift motor test as described above.

Assembly

(1) Install motor and attach with three motor attaching screws.

(2) Install counter balance spring.

(3) Replace regulator in door by reversing "Bench Repair" steps 1, 2 and 3.

(4) Regulators may be secured to door panel using rivets or 1/4-20 × 1/2 screws and nuts.