

SECTION 13-B DOORS

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13-8 FRONT AND REAR DOORS

a. Removal and Installation of Front and Rear Door Arm Rests

1. Remove screws securing arm rest assembly to door inner panel and remove assembly.
2. To install, reverse removal procedure.

b. Removal of Front and Rear Door Inside Handles

1. Depress door trim assembly at handle sufficiently to install tool J-7797 between handle and bearing plate.
2. Push handle retaining spring out of engagement and remove handle and bearing plate from door. See Figure 13-27.

c. Installation of Front and Rear Inside Handles

1. Install retaining spring on handle and bearing plate over regulator spindle.
2. Position handle on spindle at same angle as handle on opposite door, and push handle until spring is engaged.

NOTE: Handles are installed in a horizontal position with open end forward when glass is in full up position.

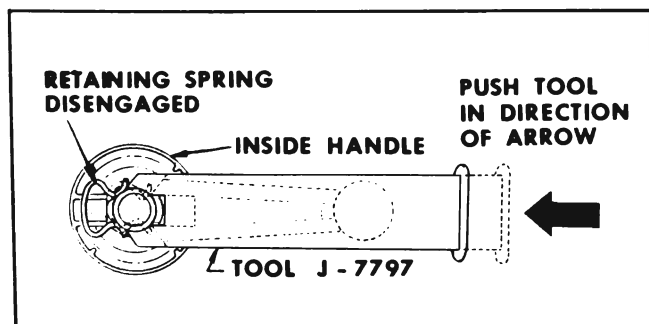


Figure 13-27—Removing Inside Handle Retaining Spring

d. Removal and Installation of Front and Rear Door Trim Assemblies

Both the front and rear door trim assemblies are secured to the door inner panel by a trim pad retainer and screws at the bottom of the door, and by retaining nails at the sides and top of the door. The nails are pressed or tapped into plastic retainers which fit into slots in the door inner panel.

1. Remove door inside handles and arm rest assembly.
2. At each lower corner of trim assembly remove screw securing assembly to door inner panel.
3. With a clean rubber mallet, tap along sides and top of trim assembly to free trim nails from door inner panel.

4. Starting at top of trim assembly, carefully insert tool No. J-6335 or a suitable flat-bladed tool between door trim assembly and door inner panel at retaining nail locations and disengage nails from retainers. See Figure 13-28.

NOTE: Exercise care so as not to disturb inner panel water deflector.

5. Lift trim assembly upwards to disengage lower edge of assembly from door inner panel and remove trim assembly.

6. To install, reverse removal procedure. Broken nails should be replaced with repair tabs which are available as a service part.

NOTE: Retaining nails must not pierce back of plastic retainers as waterleaks may develop. For this reason it is important that proper length repair tab nails (1/2") are used when replacing broken trim retaining nails.

7. If plastic retainers are loose and will not remain engaged in door inner panel, install a 1/2" x 3/4" piece of cloth-backed waterproof body tape over retaining hole in door inner

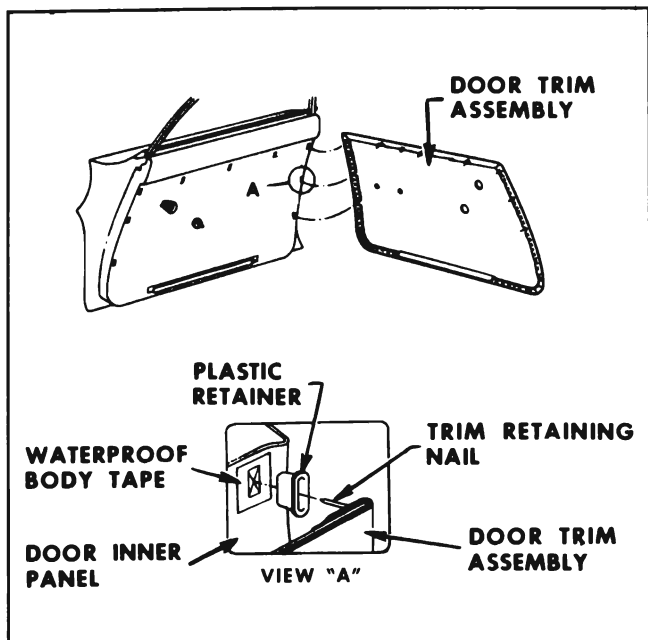


Figure 13-28—Door Trim Installation

panel. See Figure 13-28. Make two (2) slits in tape to form an "X" pattern. Check retainer for snug fit. If retainer is still loose, repeat above operation by installing a second piece of tape over existing repair. This procedure may also be used to repair waterleaks which may develop around perimeter of retainer.

e. Removal of Front and Rear Door Water Deflectors

A waterproof paper deflector is used to seal the door inner panel and prevent entry of water into the body. The polyethylene (shiny or black) side of the deflector is placed against the inner panel. The deflector fits into a retaining slot at the bottom of the door inner panel and deflects the water to the bottom of the door and out the bottom drain holes. The deflector is further secured by a new string loaded sealing material along both front and rear edges and by the application of waterproof sealing tape at front and rear lower corners. Whenever work is performed on front or rear doors where the paper water deflector has been disturbed, the deflector must be properly sealed and taped to the inner panel to prevent serious water leaks. It is important that all service personnel performing door hardware adjustments or sealing operations are aware of the importance of using the specified material and recommended removal and installation or replacement procedures. For service sealing, body caulking

compound is recommended if additional sealing material is required.

When access to the inner panel is required to perform service operations, the deflector may be completely or partially detached from the inner panel. If the existing water deflector is damaged so that it will not properly seal the door, replacement of the deflector is required.

The following procedure covers complete removal and installation of the water deflector. If only partial removal of the deflector is required, perform only those steps which are necessary to expose the required area of the door inner panel.

1. Remove door trim assembly.
2. Remove strips of waterproof body tape securing lower corners of water deflector. See Figure 13-29.
3. Carefully break cement bond securing upper corners of water deflector to door inner panel. Then while holding string located within

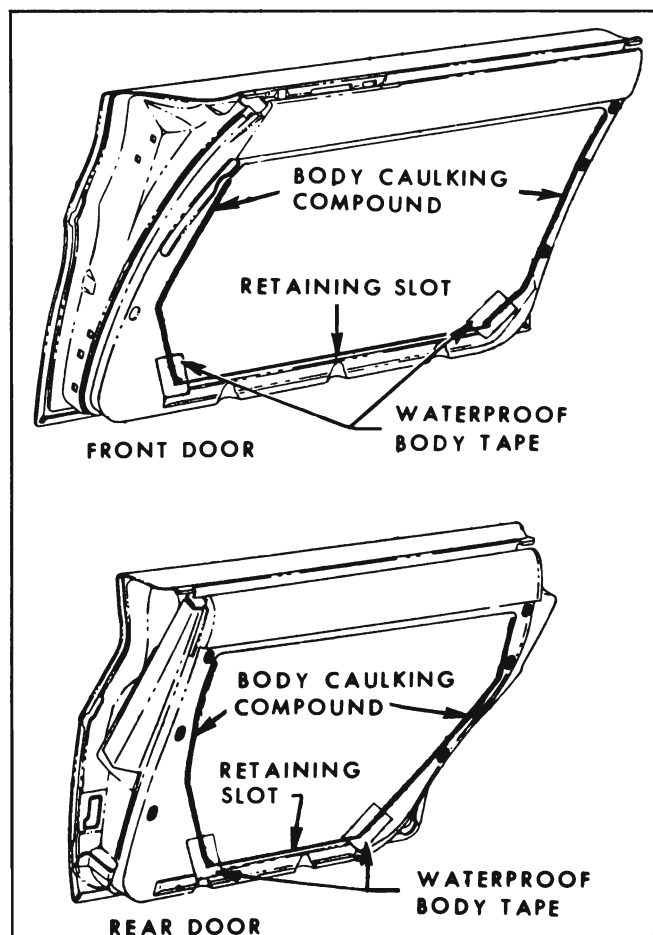


Figure 13-29—Water Deflector Installation

sealer against water deflector, carefully disengage edges of deflector from door. Exercise care so as not to tear water deflector.

NOTE: If necessary, a flat-bladed tool such as a putty knife can be used to help break cement bond.

4. Disengage lower edge of water deflector from retaining slot in door inner panel and remove water deflector.

f. Installation of Front and Rear Door Water Deflectors

1. Inspect water deflector and, where necessary, repair any tears or holes with waterproof body tape applied to both sides of deflector. In addition, if bond between polyethylene and deflector paper has been torn, cut or damaged, apply waterproof body tape to both sides of deflector over damaged area to prevent water from wicking on uncoated side of deflector paper.

2. If a new water deflector is to be installed, use old water deflector as a template, trim new deflector to proper size and cut holes for door inside hardware. If old sealer does not effect a satisfactory seal, apply a bead of body caulking compound (approximately 3/16" diameter) to inner panel at unsealed areas.

3. Seal all arm rest screw attaching holes with body caulking compound.

4. Position water deflector to door inner panel with polyethylene coated side of deflector against inner panel. Insert lower edge of deflector in retaining slot. Then firmly roll or press sealed areas to obtain a good bond between deflector and door inner panel.

NOTE: If old sealer does not give a satisfactory seal, apply a bead of body caulking compound (approximately 3/16" diameter) to inner panel at unsealed areas.

5. Seal lower corners of deflector with 2" or 2 1/2" waterproof body sealing tape. See Figure 13-29.

6. Clean off all excess cement or caulking compound and install previously removed door trim and inside hardware.

g. Removal and Installation of Front and Rear Door Lock Strikers

1. With pencil, mark position of striker on body pillar.

2. Remove three (3) door lock striker attaching screws and remove striker and adjusting plates from pillar.

3. To install, seal all striker plate attaching screw clearance holes with body caulking compound.

4. Apply 1/8" bead of body caulking compound around entire back surface of striker plate. No skips must exist in caulking compound; then place striker and adjusting plates within marks on pillar and install striker plate attaching screws.

IMPORTANT: Whenever a door has been removed and installed, or realigned, the door SHOULD NOT be closed completely until visual check is made to determine if lock extension will engage in striker notch. Where required, door lock striker emergency spacers should be installed so that door can be closed and an accurate check made to determine emergency spacer requirements.

5. Clean off all excess caulking compound.

h. Adjustments of Front and Rear Door Lock Strikers

To adjust striker up or down or in or out, loosen striker plate attaching screws and shift striker and adjusting plates as required, then tighten screws.

i. Dimensional Specifications For Use of Door Lock Striker Emergency Spacers

1. Door(s) should be properly aligned before checking door spacer requirements.

2. To determine if door lock striker emergency spacers are required, apply modeling clay or body caulking compound in door lock striker notch where lock extension engages, and then close door to form measurable impression in clay or caulking compounds as shown in Figure 13-30.

When dimension "A" from rear face of striker teeth to rear edge of depression in clay is less than 11/32", install emergency spacers and proper length striker attaching screws as indicated.

Dimension "A"	No. of Spacers Required	Spacer Thickness	Striker Attaching Screws*
11/32" to 9/32"	1	1/16"	Original
9/32" to 7/32"	1	1/8"	Emergency (1/8" longer)
7/32" to 5/32"	1-(1/16" Spacer) 1-(1/8" Spacer)	3/16"	Emergency (1/8" longer)
5/32" to 3/32"	2-(1/8" Spacer)	1/4"	Emergency (1/4" longer)

NOTE: Dimension "B" in the illustration should never be less than 1/8".

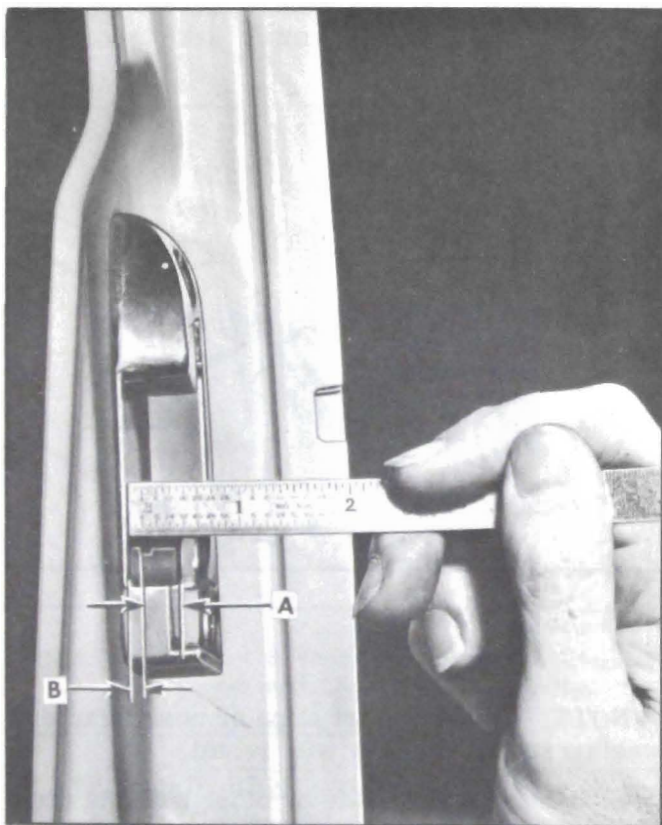


Figure 13-30—Door Lock Striker Engagement Check

Zinc or cadmium plated flat-head cross-recess screw with countersunk washer.

j. Removal of Front and Rear Door Weatherstrips

The one-piece door weatherstrip is cemented into the door window frame assembly which forms a retainer type channel for retention of the weatherstrip assembly. The remainder of

the door weatherstrip is retained by clips inserted into attaching hole sealing plugs. Service procedures for front and rear door weatherstrips are similar and both weatherstrips are covered as follows:

1. With a flat-bladed tool, carefully break cement bond along door window frame assembly and at belt line.

2. Insert tip of tool J-5757 at clip location and carefully snap clips from retaining plugs and remove weatherstrip from door.

k. Installation of Front and Rear Door Weatherstrips

1. Clean off old cement from window frame and door inner panel to insure a clean cementing surface.

2. Check weatherstrip clips for proper contour and reform if necessary using tool J-5984. See Figure 13-31.

3. Check all attaching hole sealing plugs. If sealing plugs are loose and will not remain engaged in door inner panel, install a 1/2" x 1" piece of cloth-backed waterproof body tape over sealing plug retaining hole as shown in Section "G-G" of Figure 13-32. Make two 5/16" slits in tape to form an "X". Install plug and check for a snug fit. If plug is still loose, repeat above operation by installing a second piece of tape over existing repair. This procedure may also be used to repair water-leaks which may develop at sealing plug locations.



Figure 13-31—Reforming Weatherstrip

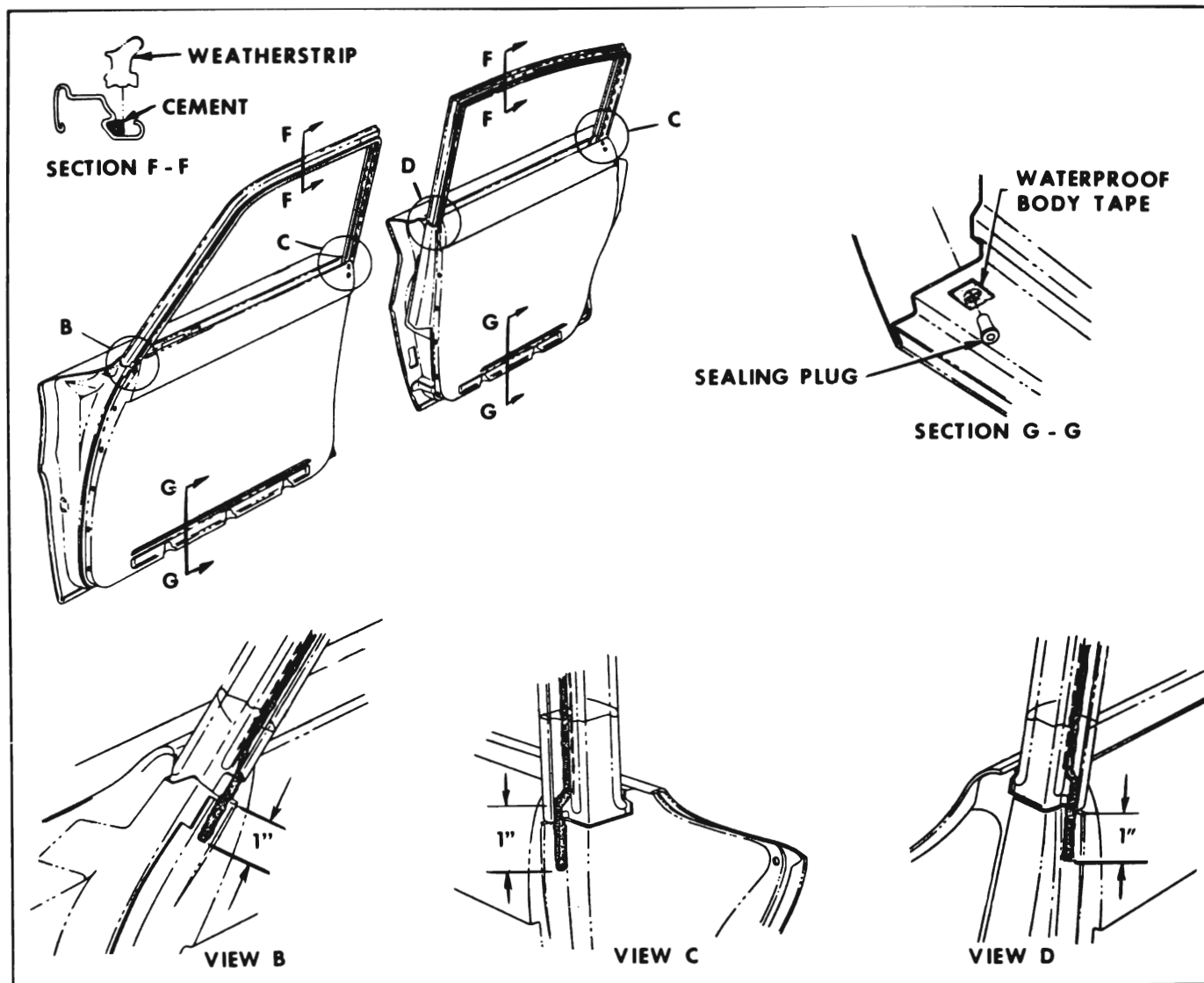


Figure 13-32—Door Weatherstrips

4. Prior to installation of weatherstrip on either door, apply a continuous bead of an approved weatherstrip cement extending from approximately one (1) inch below window frame at hinge pillar section (see View "B" or "D") along entire outboard portion of door window frame assembly (see Section "F-F") to approximately one (1) inch below lock pillar section of window frame assembly as shown in Section "C".

NOTE: When applying weatherstrip cement, follow manufacturer's directions.

5. Starting at uppermost clip hole on either door pillar, install clips to door by placing notched end of tool J-5757 in loop of clip and pushing clip into attaching hole sealing plug. Repeat operation along both sides and bottom of door.

NOTE: Do not distort clips or unsatisfactory weatherstrip retention will result.

6. Using a putty knife or other suitable flat-bladed tool, install door weatherstrip into door window frame assembly.

7. Clean off all excessive weatherstrip adhesive.

I. Removal and Installation of Front and Rear Door Glass Run Channel Inner Strip Assembly

1. Lower door window. Apply masking tape over door inner panel adjacent to strip assembly to protect paint finish.

2. With a screwdriver or other suitable flat-bladed tool carefully pry up inner edge of strip

assembly at clip locations and remove assembly from door.

3. To install, align clips with holes in door inner panel and press strip assembly into place. Remove tape from door inner panel.

m. Removal and Installation of Front and Rear Door Window Glass Run Channel Outer Strip Assembly

1. Lower door window. Apply masking tape to door outer panel adjacent to strip assembly to protect paint finish.

2. With a screwdriver or other suitable flat-bladed tool, carefully pry up outer edge of strip assembly at clip locations and remove strip from door. See Figure 13-33.

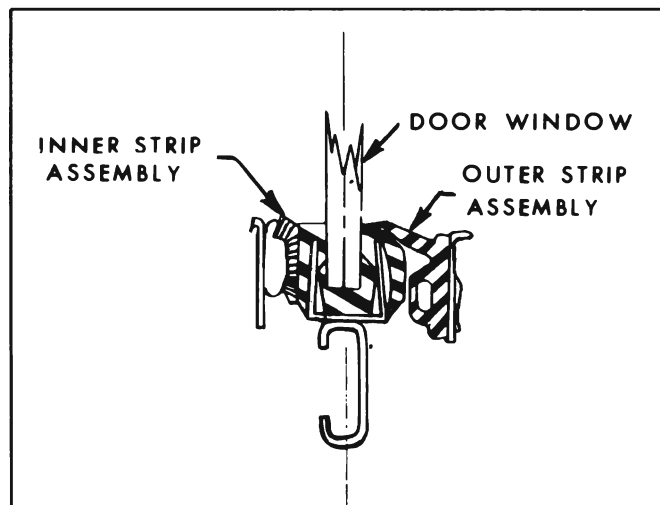


Figure 13-33—Front & Rear Door Glass Run Channel Inner and Outer Strip Assemblies

3. To install, align clips with holes in outer panel return flange and press strip assembly into place. Remove tape from door outer panel.

n. Removal and Installation of Front and Rear Door Window Glass Run Channel

1. Remove door window.

2. Starting at either end of glass run channel, press sides of channel together and remove from window frame assembly.

3. To install, start at either upper corner of window frame assembly and reverse removal procedure.

o. Removal and Installation of Front and Rear Door Pinchweld Finishing Strips

Pinchweld finishing strips are installed over the pinchweld flange around each door opening. The front door finishing strips consist of a center pillar and side roof rail front finishing strip while the rear door finishing strips consist of a center pillar rear, side roof rail rear, and rear body lock pillar finishing strip. Prongs in the metal insert of each finishing strip secure the strip to the pinchweld flange.

1. To remove front door pinchweld finishing strips, remove door sill plate, center pillar-to-side roof rail finishing plate and retaining clip at butt joint. Then starting at end of each strip carefully pull strips away from pinchweld flange and remove from body.

2. To remove rear door pinchweld finishing strips, remove door sill plate, center pillar-to-side roof rail finishing plate, back window upper outer garnish molding and retaining clips at butt joints. Then starting at end of each strip carefully pull strips away from pinchweld flange and remove from body.

3. To install, start at top of center pillar and press strips over pinchweld.

NOTE: Use caution so as not to bend or deform strips as it will make installation difficult and result in poor appearance.

p. Door Lock Spring Clip(s)

A spring clip is used on the door lock levers to secure the remote control connecting link and inside locking rod connecting link to the door levers. A slot in the spring clip provides for disengagement of the clip, thereby facilitating detachment of the connecting link from the lock lever.

To disengage the spring clip, use a screwdriver or other suitable tool to slide the clip out of engagement. Figure 13-34 shows the door lock spring clip engaged and disengaged.

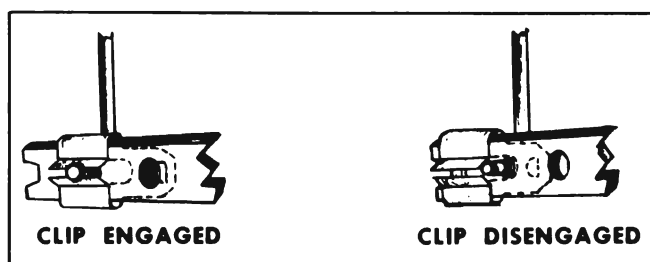


Figure 13-34—Door Lock Spring Clip

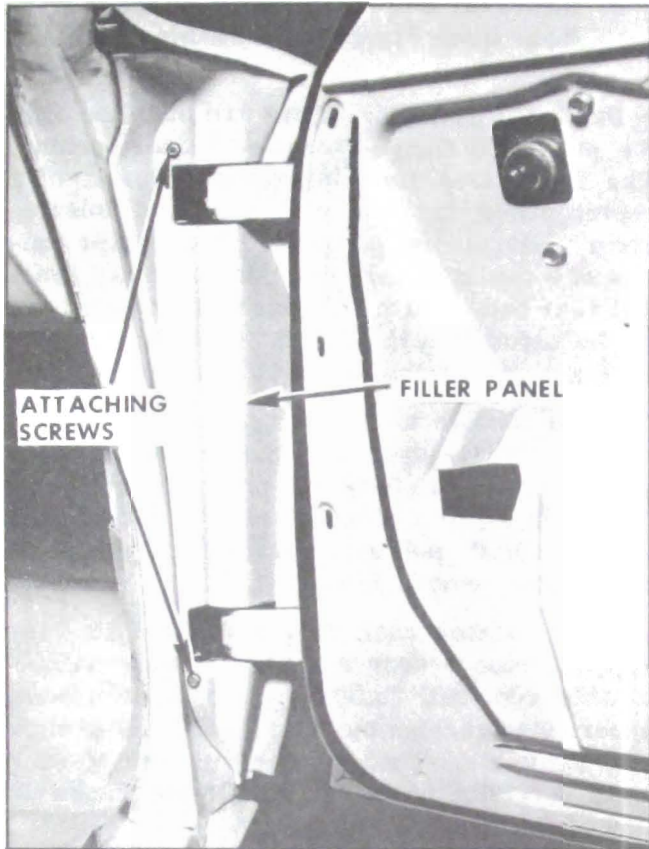


Figure 13-35—Front Fender Filler Panel

13-9 FRONT DOORS

a. Removal and Installation of Front Fender Filler Panel

1. Remove screws securing panel and remove panel. See Figure 13-35.
2. To install, reverse removal procedure.

b. Removal of Front Door Assembly and Hinges

The front door assembly may be removed with or without the hinges attached.

To remove the front door assembly with hinges attached, proceed as follows:

1. Place suitable protective covering over front fender at door opening to protect finish.
2. Remove front fender opening filler panel.
3. Open door and mark hinge locations on front body hinge pillar.
4. If necessary, loosen lower rear fender

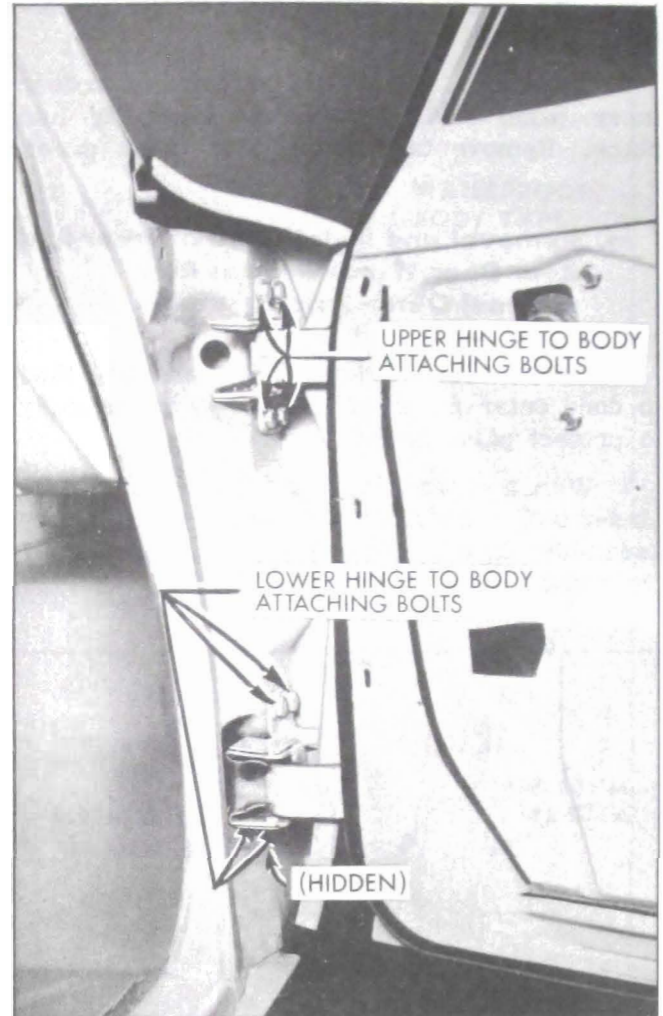


Figure 13-36—Front Door Assembly and Hinge Removal

attaching bolt at underside of body to gain additional access to lower hinge attaching bolts.

5. With aid of helper to properly support door, remove bolts securing upper and lower hinges to body and remove door assembly with attached hinges from body. See Figure 13-36.

c. Installation of Front Door Assembly and Hinges

1. As an anti-squeak precaution and to prevent entry of water into body at hinge attaching bolt locations, coat attaching surfaces of hinges with heavy-bodied sealer prior to installing door. See Figure 13-37.

2. With aid of helper, re-install door to body opening. Align hinges within scribe mark and tighten bolts.

3. Check door for proper operation and alignment, and where required, adjust door as described under "Front Door Adjustments".

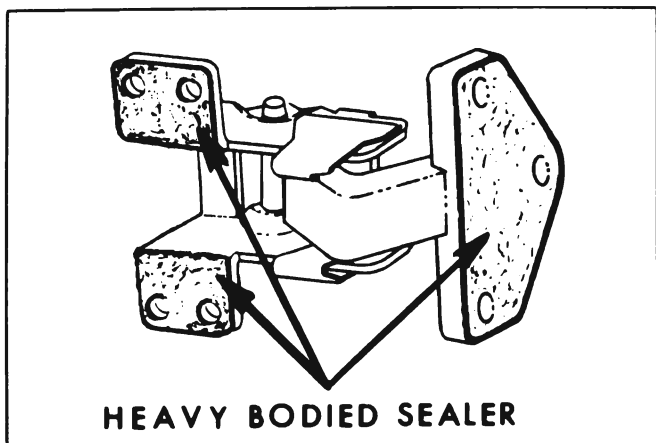


Figure 13-37—Front Door Hinge Assembly

4. Install front fender opening filler panel and remove protective covering from front fender.

NOTE: For lubrication of hinges, see “Body Lubrication” section.

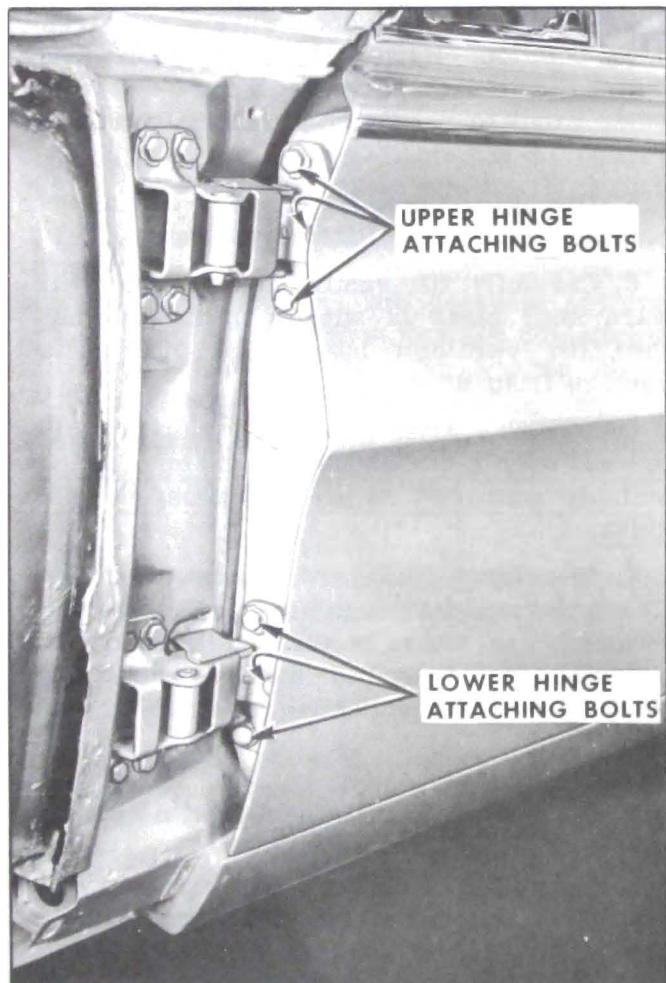


Figure 13-38—Front Door Hinge Attachment

d. Removal of Front Door Assembly Less Hinges

1. Place suitable protective covering over front fender at door opening to protect paint finish.
2. Mark hinge locations on door.
3. With aid of helper to properly support door, remove bolts securing upper and lower hinges to door and remove door assembly from hinges. See Figure 13-38.

e. Installation of Front Door Assembly Less Hinges

1. As an anti-squeak precaution, coat attaching surfaces of hinges with heavy bodied sealer prior to installing door. See Figure 13-37.
2. With aid of helper, re-install door to hinges. Align hinges within locating marks and tighten bolts.
3. Check door for proper operation and alignment and where required, adjust door as described under “Front Door Adjustments”.
4. Remove protective covering from front fender.

NOTE: For lubrication of hinges, see “Body Lubrication” section.

f. Front Door Adjustments

Door adjustments are provided through the use of floating anchor plates at the door and body pillars. When checking the door for misalignment, remove the door lock striker from the body pillar to allow door to hang free on its hinges.

To adjust the door up or down and/or fore or aft at the front body hinge pillar, proceed as follows:

1. Remove front fender filler panel.
2. Mark location of hinges on front body hinge pillar.
3. Loosen hinge attaching bolts and shift door to desired position; then tighten hinge attaching bolts. See Figure 13-36.

NOTE: Loosen front fender lower rear attaching bolt if necessary to gain additional access to lower hinge attaching bolts.

4. Check door for proper alignment and, where necessary, repeat Steps 2 and 3 above until desired adjustment is obtained.

To adjust door in or out and/or up or down at the door hinge pillar, proceed as follows:

1. Mark hinge locations on door.
2. Loosen hinge attaching bolts. See Figure 13-38. Shift door to desired position, then tighten hinge attaching bolts.
3. Check door for proper alignment and, where necessary, repeat Steps 1 and 2 above until desired adjustment is obtained.
4. Reinstall door lock striker and check lock extension-to-striker engagement as described under "DOOR LOCK STRIKER - Adjustments".

g. Removal and Installation of Front Door Lock Remote Control Assembly and Connecting Link

1. Raise door window. Remove door trim assembly and detach inner panel water deflector.
2. With aid of a screwdriver or other suitable tool, disengage end of connecting link from lock assembly (see "Door Lock Spring Clip").

3. Remove screws securing remote control assembly to door inner panel. Pull remote control away from door inner panel; then rotate remote control assembly one quarter turn to disengage connecting link from remote control assembly. Remove remote control assembly and connecting link from door. See Figure 13-39.

4. To install, reverse removal procedure. Check operation of door lock before installing inner panel water deflector.

h. Removal and Installation of Front Door Ventilator Assembly

1. Raise door window. Remove door trim assembly and detach inner panel water deflector.
2. Remove door lock remote control assembly and connecting link.
3. Remove door window bumper support assembly and ventilator division channel lower adjusting stud and nut.
4. Carefully lower door window to extreme down position. Remove three (3) door window frame to ventilator attaching screws and one (1) inner panel to ventilator attaching screw. See Figure 13-39.

5. Disengage upper front corner of glass run channel from window frame assembly.

6. Carefully tilt ventilator assembly rearward until clear of window frame assembly; then lift ventilator inboard and upward and remove from door.

CAUTION: After ventilator has been removed, door glass should be held or otherwise suitably supported to prevent damage to door glass.

7. To install, reverse removal procedure. Check operation of ventilator and door window assembly and, where required, adjust ventilator assembly as described under "Front Door Ventilator Adjustments".

i. Front Door Ventilator Adjustments

1. To adjust ventilator division channel in or out or fore or aft, remove door trim assembly and detach inner panel water deflector sufficiently to loosen division channel lower adjusting stud nut. See Figure 13-39. Adjust stud in or out as required or position channel

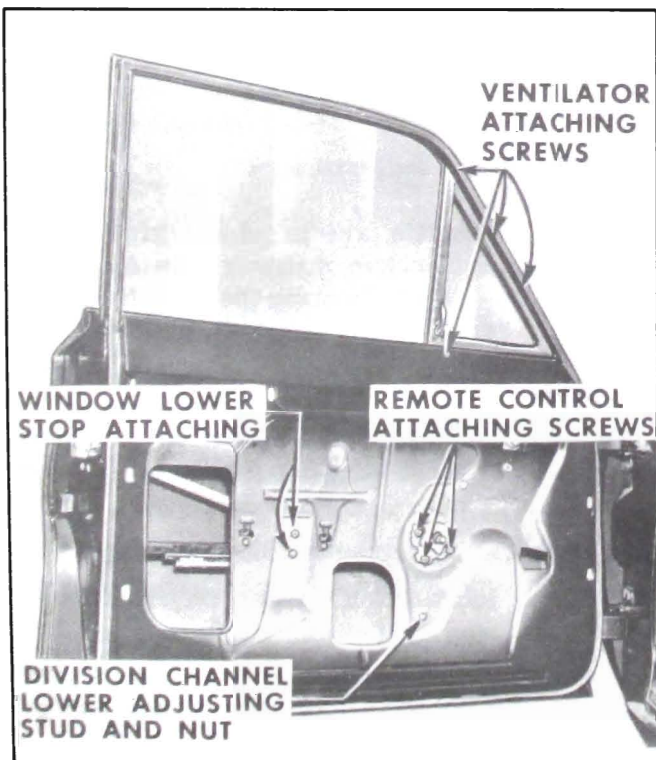


Figure 13-39—Front Door Regulator and Remote Control Attachment

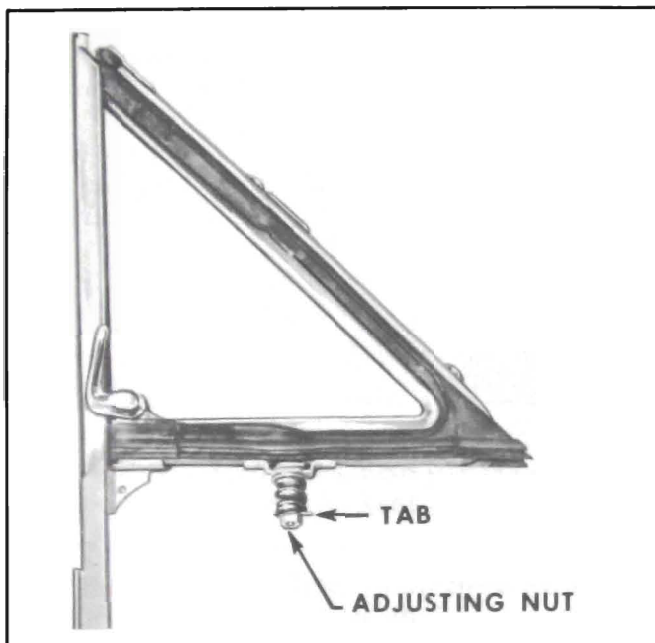


Figure 13-41—Ventilator Friction Adjustment

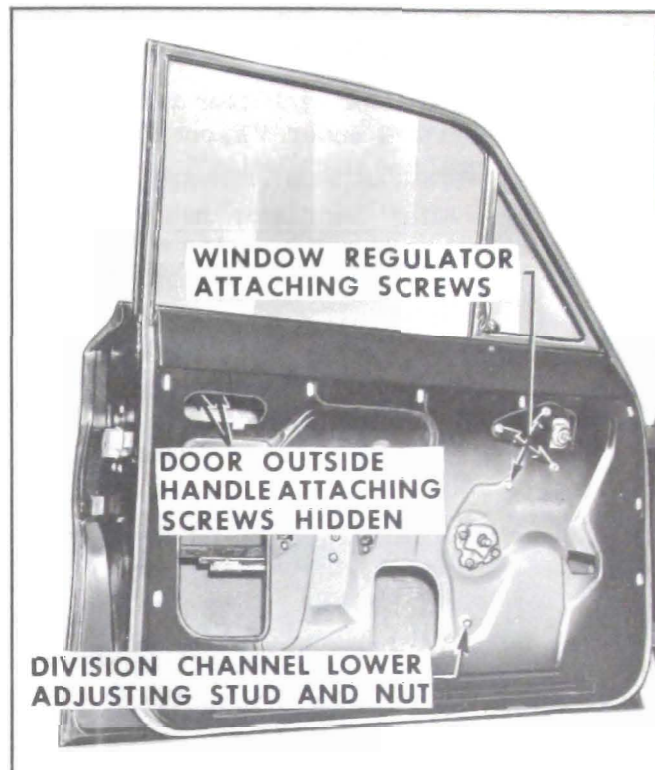


Figure 13-42—Window Regulator and Outside Handle Attachment

fore or aft as required; then tighten stud nut. Seal water deflector and install door trim and inside hardware.

2. The effort required to open or close the ventilator may be increased or decreased by bending up washer tab and tightening or loosening the adjusting nut. See Figure 13-41.

Tightening the adjusting nut will increase effort required to open and close ventilator, loosening adjusting nut will decrease opening and closing effort. When desired adjustment has been obtained, bend down washer tab to lock nut in position.

NOTE: This adjustment should be performed as a bench operation.

j. Removal and Installation of Front Door Window Regulator Assembly

1. Remove door trim assembly and detach inner panel water deflector.

2. Raise door window. Place a protective piece of paper over window frame assembly and door weatherstrip to protect paint and weatherstrip from damage; then secure window in full up position by installing a twelve to fifteen inch piece of body tape (2" or 2 1/2" in width) over window frame and firmly pressing tape to both sides of glass. This is necessary to positively hold glass in the up position during removal of the window regulator.

3. Remove remote control assembly and ventilator division channel lower adjusting stud and nut.

4. Remove window regulator attaching screws then work window regulator rearward to disengage arm from window lower sash channel cam and remove regulator from door. See Figure 13-42.

5. To install, reverse removal procedure. Cycle window several times to insure proper operation before installing water deflector.

k. Removal and Installation of Front Door Window Assembly

The front door glass is a solid tempered safety plate glass. The glass fits into a lower sash channel assembly which incorporates a welded-on lower sash channel cam. With this type design, the door glass, lower sash channel and sash channel cam are removed from the door as a unit.

CAUTION: Care should be exercised to make certain glass does not strike body metal during installation procedure as edge chips can cause tempered plate glass to shatter. DO NOT attempt to grind glass.

1. Remove door trim assembly and detach inner panel water deflector.

2. Remove front door ventilator assembly as previously described under "Front Door Ventilator - Removal and Installation".

CAUTION: After ventilator has been removed, door glass should be held or otherwise suitably supported to prevent damage to door glass.

3. Carefully lift window assembly upward and forward to disengage regulator arm from door window lower sash channel cam and remove window assembly from between inner and outer panels.

4. To install, reverse removal procedure. After installation of window assembly, lubricate lower sash channel cam along entire length of cam with lubriplate or its equivalent.

i. Front Door Window Adjustments

1. To adjust the lower portion of the ventilator division channel in or out or fore or aft, lower door window and loosen ventilator division channel adjusting stud nut. See Figure 13-39. Turn adjusting stud in or out or position lower end of channel fore or aft as required; then tighten stud nut.

2. A slight up or down adjustment of the door window can be obtained by adjusting the door window bumper support assembly.

m. Removal and Installation of Front Door Outside Handle Assembly

1. Raise door window. Remove door trim assembly and detach upper rear corner of inner panel water deflector sufficiently to gain access to door outside handle attaching screws. See Figure 13-42.

2. Remove screws, then remove door lock handle and gaskets from outside of body.

3. To install, reverse removal procedure.

n. Disassembly and Assembly of Front Door Outside Handle Push Button

1. Remove door outside handle as previously described.

2. Depress retainer slightly and turn retainer one-quarter turn. Remove retainer, spring, push button and shaft and sealing ring from handle. See Figure 13-43.

3. To assemble, reverse disassembly procedure.

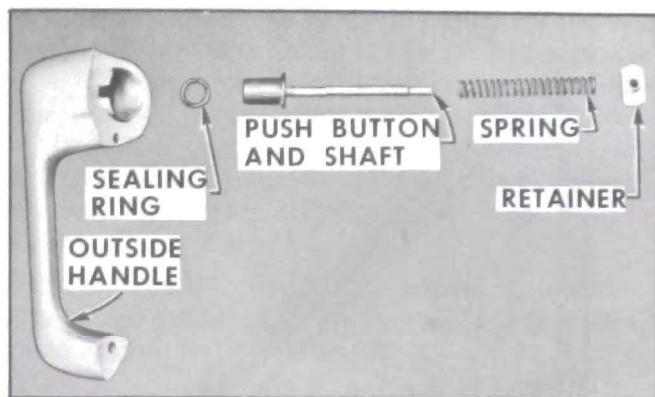


Fig. 13-43—Front Door Outside Handle Disassembled

o. Removal and Installation of Front Door Lock Assembly

All locks are the rotary bolt-type lock with safety interlock feature. With the safety interlock feature it is very important that the lock

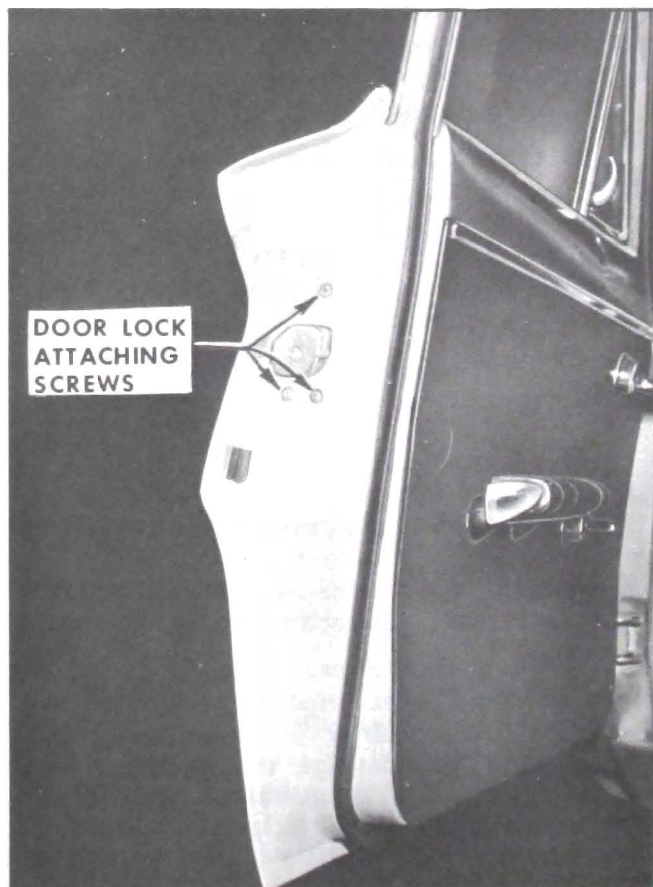


Figure 13-44—Door Lock Adjustment

extension engages properly in the door lock striker notch and that, where necessary, striker emergency spacers of the proper thickness are used to obtain proper engagement.

1. Raise door window. Remove door trim assembly and detach inner panel water deflector.

2. Remove lock cylinder assembly.

3. With a screwdriver or other suitable pointed tool, disengage remote control connecting link from door lock assembly (see "Door Lock Spring Clip").

4. Remove door lock attaching screws and remove lock assembly through inner panel access hole. See Figure 13-44.

5. To install, reverse removal procedure. Check all operations of lock assembly before installing inner panel water deflector.

p. Removal and Installation of Front Door Lock Cylinder Assembly

1. Raise door window. Remove door trim assembly and detach inner panel water deflector.

2. With a suitable tool, through inner panel access hole, slide lock cylinder retaining clip forward sufficiently to allow removal of cylinder, then remove cylinder and gasket. See Figure 13-45.



Figure 13-45—Door Lock Cylinder Attachment

3. To install, reverse removal procedure. Using key, check operation of lock cylinder assembly.

q. Disassembly and Assembly

1. Remove cylinder assembly from door as previously described.

2. With suitable tool, remove retaining clip, pawl and spring clip. See Figure 13-46.

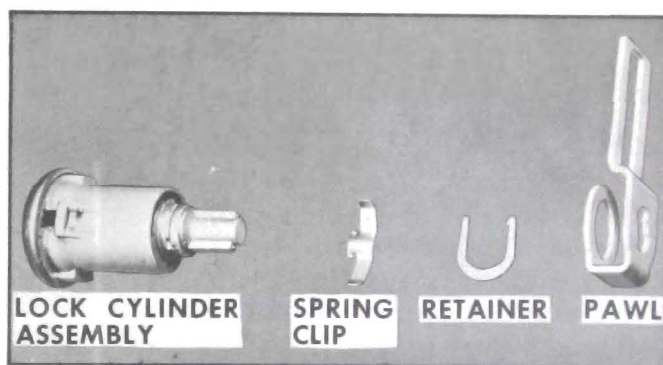


Figure 13-46—Door Lock Cylinder Disassembled

3. To assemble, reverse disassembly procedure.

NOTE: The lock cylinder housing scalp used in production is usually damaged when removed and must be replaced by a new scalp available as a service part. The service lock cylinder housing scalp is secured by tabs.

13-10 REAR DOORS

a. Removal of Rear Door Assembly and Hinges

The rear door assembly is attached to the body center pillar with two (2) butt-type hinges. The upper hinge on all styles is secured with three (3) screws to an anchor plate at the door hinge pillar and three (3) bolts to an upper hinge support at the center pillar. The lower hinge on all styles incorporates an integral type door check and hold open and is secured with three (3) screws to an anchor plate at both the door hinge pillar and center pillar. The rear door assembly may be removed with or without the hinges attached.

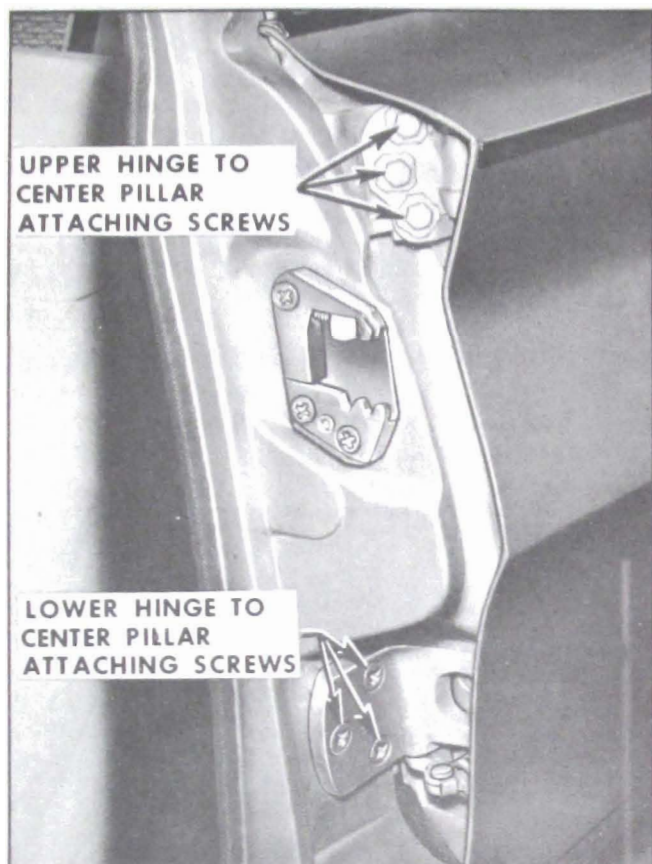


Figure 13-47—Rear Door to Center Pillar Attachment

1. Clean off excess sealer from around each hinge strap and mark hinge location on door hinge pillar or center pillar, depending on method of removal being used.

2. With door properly supported, remove three (3) upper and lower hinge attaching screws at door hinge pillar or screws and bolts at center pillar, depending on method of removal being used. See Figure 13-47.

3. With aid of helper, remove door from body opening.

b. Installation of Rear Door Assembly and Hinges

1. With scraper and mineral spirits, carefully clean off old sealing compound at hinge areas.

2. Apply a coat of heavy-bodied sealer to attaching surfaces of hinge straps or corresponding surfaces of door or body. See Figure 13-48.

3. With helper, lift door into position. Attach hinge loosely, then align straps within marks

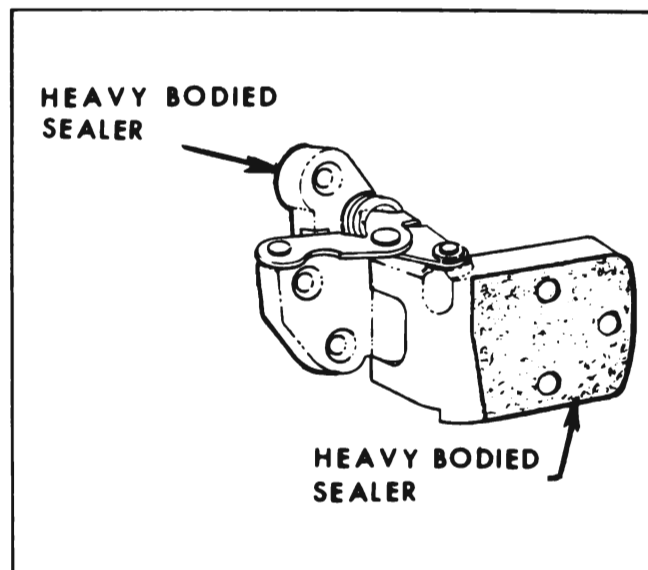


Figure 13-48—Rear Door Hinge

on pillar and tighten screws or screws and bolts. Check door for alignment.

c. Rear Door Adjustments

The in and out adjustments on the rear door are provided at the door hinge pillar while the up and down or fore and aft adjustments are provided at center pillar. When checking the door for alignment, remove the door lock striker from body pillar to allow door to hang free on its hinges.

1. For in and out adjustment, loosen hinge to door pillar attaching screws. Adjust door as required and tighten screws.

2. To adjust door up or down or fore or aft, loosen hinge to center pillar attaching bolts and screws. Adjust door up or down or fore or aft as required and tighten attaching bolts and screws.

Reinstall door lock striker and check lock extension-to-striker engagement as described under "Door Lock Striker - Adjustments".

NOTE: When performing fore or aft adjustments, adjust one (1) hinge at a time so that the up and down adjustment of door is maintained. After completing any fore or aft adjustments, the rear door upper hinge may have to be adjusted in or out due to the design of the center pillar hinge support.



Figure 13-49—Rear Door and Glass Run Channel Retainer

d. Removal and Installation of Rear Door Window Glass Run Channel Rear Retainer Assembly

1. Raise rear door window. Remove door trim assembly and detach inner panel water deflector.

2. Remove rear door window glass run channel rear retainer assembly lower attaching bolt from lock pillar facing of door. See Figure 13-49.

3. Inside of door, disengage end of window glass run channel from retainer. Then lower retainer to disengage upper end from rear door window frame and remove retainer from door.

4. To install, reverse removal procedure. Check operation of window assembly and, if required, adjust rear retainer as outlined under "Rear Door Window Adjustments".

e. Removal and Installation of Rear Door Lock Assembly

Locks are the rotary bolt-type with the safety interlock feature. With the interlock

feature it is very important that the lock extension engages properly in the door lock striker notch and that, where necessary, striker emergency spacers of the proper thickness be used to obtain proper engagement.

1. Raise rear door window. Remove door trim assembly and detach inner panel water deflector sufficiently to gain access to door lock.

2. Remove rear door window glass run channel retainer assembly.

3. With a screwdriver or other suitable tool, disengage spring clips and detach inside lock connecting rod and remote control connecting rod from door lock (see "Door Lock Spring Clips").

4. Remove screws securing lock to door lock pillar facing and remove lock through inner panel access hole. See Figure 13-49.

5. To install, secure spring clips to lock levers and reverse removal procedure. Check all operations of lock assembly before installing inner panel water deflector.

f. Removal and Installation of Rear Door Remote Control Assembly and Connecting Rod

1. Remove door trim assembly and detach inner panel water deflector sufficiently to gain access to remote control attaching screws. See Figure 13-51.

2. Remove screws securing remote control assembly to door inner panel and detach remote control from remote control-to-lock connecting rod.

3. Through access hole, disengage remote control connecting rod spring clip from lock assembly and disengage rod from lock (see "Door Lock Spring Clips").

4. To install remote control and connecting rod, reverse removal procedure. Position remote control rearward sufficiently to take up slack in linkage so that all clearances are taken out of linkage in a rearward position. Check lock for proper operation before installing inner panel water deflector.

g. Removal and Installation of Rear Door Inside Locking To Lock Rod Assembly

1. Raise door window. Remove door trim assembly and detach inner panel water deflector.

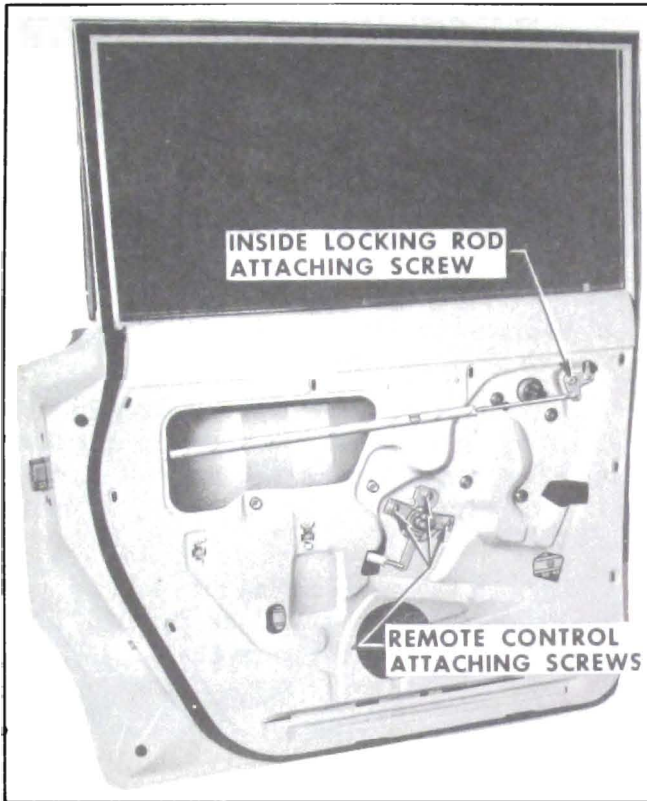


Figure 13-51—Rear Door Remote Control and Inside Locking Rod Attachment

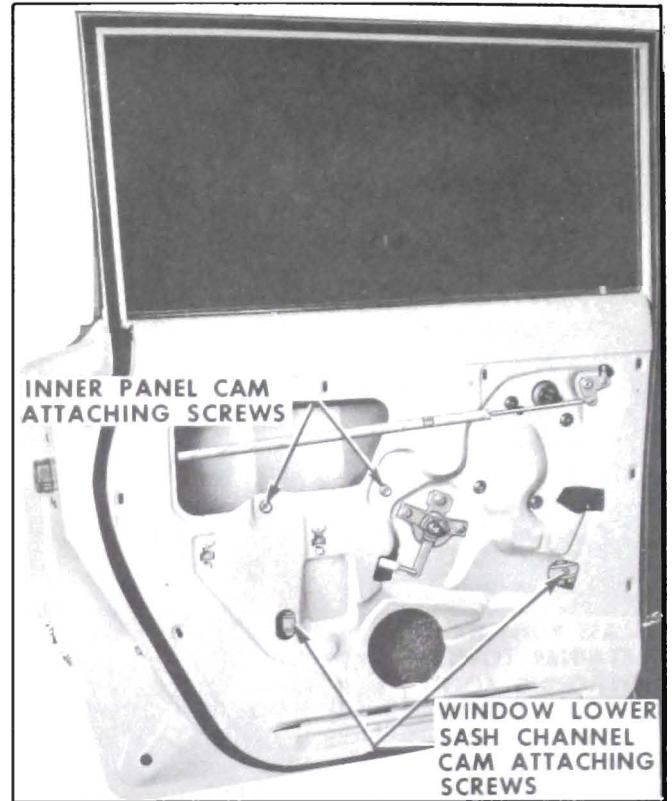


Figure 13-52—Inner Panel Cam and Window Lower Sash Channel Cam Attachment

2. Remove locking rod knob from rod.
3. Remove inside locking rod assembly attaching screw and washer and detach connecting rod from clip on inner panel. See Figure 13-51.
4. Through access hole, disengage spring clip securing inside lock connecting rod from door lock and disengage rod from lock, then remove inside locking rod assembly from door.
5. To install, reverse removal procedure. Check operation of inside locking rod assembly before installing door inner panel water deflector.

h. Removal and Installation of Rear Door Inner Panel Cam Assembly

1. Raise door window. Remove door trim assembly and detach inner panel water deflector sufficiently to expose inner panel cam attaching screws. See Figure 13-52.
2. Remove cam attaching screws; then disengage cam from window regulator arm roller and remove from door.

3. To install, reverse removal procedure. Prior to installation of inner panel cam, lubricate entire length of cam with #630 AAW Lubriplate or equivalent.

i. Removal and Installation of Rear Door Window Lower Sash Channel Cam

1. Remove door trim assembly and detach inner panel water deflector.
2. Lower door window sufficiently to gain access to sash channel cam attaching screws through access holes in door inner panel and remove screws. See Figure 13-52.
3. While supporting window by hand, carefully disengage cam from window lower sash channel and rollers on window regulator arms and remove from door. Then carefully lower window.
4. To install, reverse removal procedure. Prior to installation, lubricate entire length of window lower sash channel cam with #630 AAW Lubriplate or equivalent. Check operation of window prior to installing inner panel water deflector.

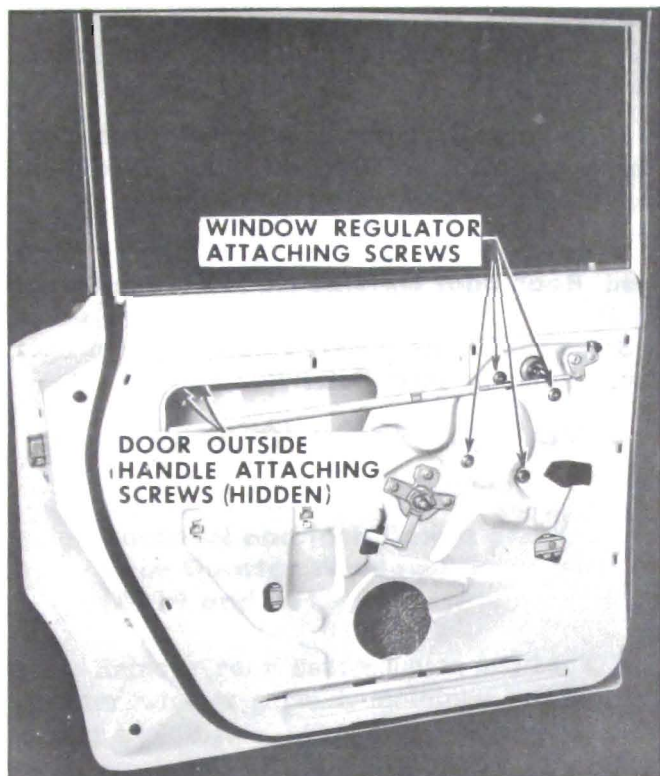


Figure 13-53—Window Regulator and Outside Handle Attachment

j. Removal and Installation of Rear Door Window Regulator Assembly

1. Remove door trim pad and detach inner panel water deflector.
2. Remove door window lower sash channel cam.
3. Carefully raise door window. Place a protective piece of paper over window frame assembly and door weatherstrip to protect paint and weatherstrip from damage and secure window in the full-up position by installing a twelve to fifteen inch piece of body tape (2" or 2 1/2" in width) over window frame and firmly pressing tape to both sides of glass. This is necessary to positively hold glass in the up position during removal of the window regulator.
4. Remove window regulator attaching screws (see Figure 13-53). Carefully move regulator assembly rearward to disengage regulator arm roller from inner panel cam; then remove regulator from door.
5. To install, reverse removal procedure. Lubricate cams with #630 AAW Lubriplate or equivalent and check window operation prior to installing water deflector.

k. Removal and Installation of Rear Door Window Assembly

The rear door glass is a solid tempered safety plate glass. The glass fits into a lower sash channel assembly which incorporates a screwed-on lower sash channel cam.

CAUTION: Care should be exercised to make certain glass does not strike body metal during installation procedure as edge chips can cause tempered plate glass to shatter. DO NOT attempt to grind glass.

1. Raise door window. Remove door trim assembly and detach inner panel water deflector.
2. Remove rear door window glass run rear retainer assembly.
3. Carefully lower door window and through access holes in door inner panel, remove screws securing window lower sash channel cam to window lower sash channel. See Figure 13-52.

NOTE: Exercise care when lowering window since rear guide is not present.

4. While supporting window by hand, carefully disengage lower sash channel cam from window lower sash channel and window regulator arm rollers and remove cam from door.
5. Completely lower door window assembly. Then tilt front edge of glass upward and carefully lift window upward and outboard to clear window frame and remove from door.

NOTE: On station wagon styles, tilt rear edge of glass upward, then lift window upward and outward to remove from door.

6. To install, reverse removal procedure. Prior to installation of water deflector, lubricate lower sash channel cam and inner panel cam with 630 AAW Lubriplate or equivalent. Check operation of window and, where required, adjust window assembly as described under "Adjustments" below.

l. Adjustments of Rear Door Window Assembly

1. To adjust rear door window in or out, lower door window. Loosen rear glass run channel retainer assembly attaching screw and adjust guide assembly as required; then tighten screw. See Figure 13-52.
2. To correct a condition where the glass is cocked in the glass run channels, loosen door

window inner panel cam front and/or rear attaching screw(s), adjust cam as required, and tighten screws. See Figure 13-52.

m. Removal and Installation of Rear Door Outside Handle

1. Raise door window. Remove door trim assembly and detach inner panel water deflector sufficiently to gain access to outside handle attaching screws.

2. Remove screws securing outside handle and remove handle and gaskets. See Figure 13-53.

3. To install, reverse removal procedure. Check operation of outside handle prior to installing inner panel water deflector.

n. Rear Door Outside Handle Push Button

See write up as covered under "Front Door Outside Handle Push Button".