SECTION 9

TAIL GATE

INDEX

INTRODUCTION

For purposes of clarity, the SINGLE acting and DUAL acting tail gates, comprising this section, are covered as complete and separate entities.

IMPORTANT: FOLLOWING ANY REPLACEMENT OR REALIGNMENT OF THE TAIL GATE, OR COMPONENT HARDWARE, ALL LOCKS MUST BE CHECKED FOR SYNCHRONIZATION AND CORRECTED AS OUTLINED IN EACH SPECIFIC LOCK WRITE-UP. IT IS IMPERATIVE THAT ALL LOCKS ARE FULLY ENGAGED (LOCKED) DURING SYNCHRONIZATION. REFER TO THE SERVICING PROCEDURES CHART RELATING TO DUAL ACTING TAIL GATES.

DUAL ACTING TAIL GATES

The dual-acting tail gate incorporates a unique hinge and locking arrangement that allows the tail gate to be operated in the conventional manner and, additionally, as a door. All wagons utilize either a manually or electrically operated window that can be lowered into the gate or raised into the back body opening. The manual window is operated by a regulator control handle located in the tail gate outer panel. The power window can be operated by any one of three control switches; one on the instrument panel, one at the lock cylinder on tail gate outer panel (key operated) and one on the wheelhouse cover panel (optional - down only). All styles using a power tail gate window are equipped with an electrical switch that prevents movement of the window with gate in any position other than fully closed.

The tail gate is unlocked to "gate position" by means of a remote control inside handle located in the top center of gate inner panel. Unlocking to "door position" is accomplished with a remote

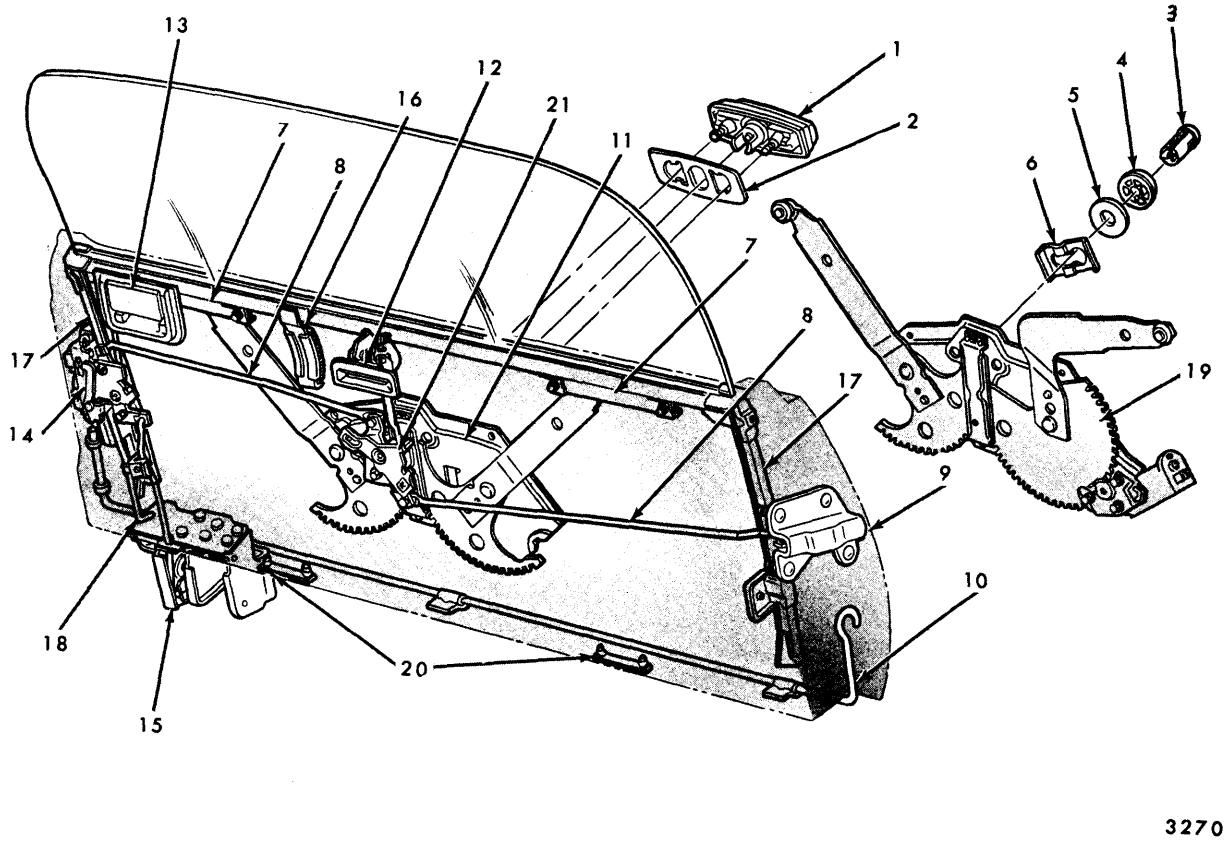


Fig. 9-1—Dual Acting Tail Gate

Fig. 9-1—Dual Acting Tail Gate

1. Outside Handle (Manual)
2. Gasket
3. Lock Cylinder
4. Electrical Feed Block
5. Gasket
6. Lock Cylinder Retainer
7. Sash Channel Cam
8. Remote Control Connecting Rod
9. Left Lock Assembly
10. Torque Rod
11. Regulator - Manual
12. Remote Gate Handle
13. Remote Door Handle
14. Right Upper Lock
15. Right Lower Lock and Cover Assembly
16. Glass Stabilizer
17. Lower Glass Run Channels
18. Glass Block-Out Rod
19. Regulator Electrical
20. Sealing Strip
21. Remote Control Assembly

control inside handle located at top right side of inner panel. Tail gate cannot be opened in either direction, however, until window has been fully lowered. All tail gates are counter-balanced by a torque rod that assists in reducing the effort required to open or close the tail gate.

Unless otherwise stated, the tail gate service procedures outlined in this manual pertain to all station wagon styles.

All dual-acting tail gates employ a "hang-on" type inner panel cover that attaches over the top of the tail gate inner panel and is further secured by a series of screws. This cover can be readily removed with gate in either the open or closed position.

TAIL GATE INNER PANEL WATER DEFLECTOR

A waterproof paper deflector is sealed against the tail gate inner panel to deflect water toward the bottom of the gate and out the drain holes.

IMPORTANT: When work is performed on the tail gate that requires any detachment of the water deflector, it must be properly resealed to the inner panel.

Removal

1. Remove tail gate inner panel cover.
2. Using a flat-bladed tool, carefully break bond securing water deflector to inner panel. Make sure string, located within sealer, is against water deflector and carefully slide tool between sealer and inner panel along both sides, top and bottom to disengage deflector from inner panel. If the entire deflector need not be removed, detach only that portion necessary.

Installation

1. Inspect deflector and repair any damage noted with waterproof body tape applied to both sides.
2. If a new deflector is to be installed, use old deflector as a template.
3. If needed, apply a bead of body caulking compound (approximately 3/16" diameter) to tail gate inner panel (See Fig. 9-2). The inner panel cover attaching screw holes should also be sealed with body caulking compound.

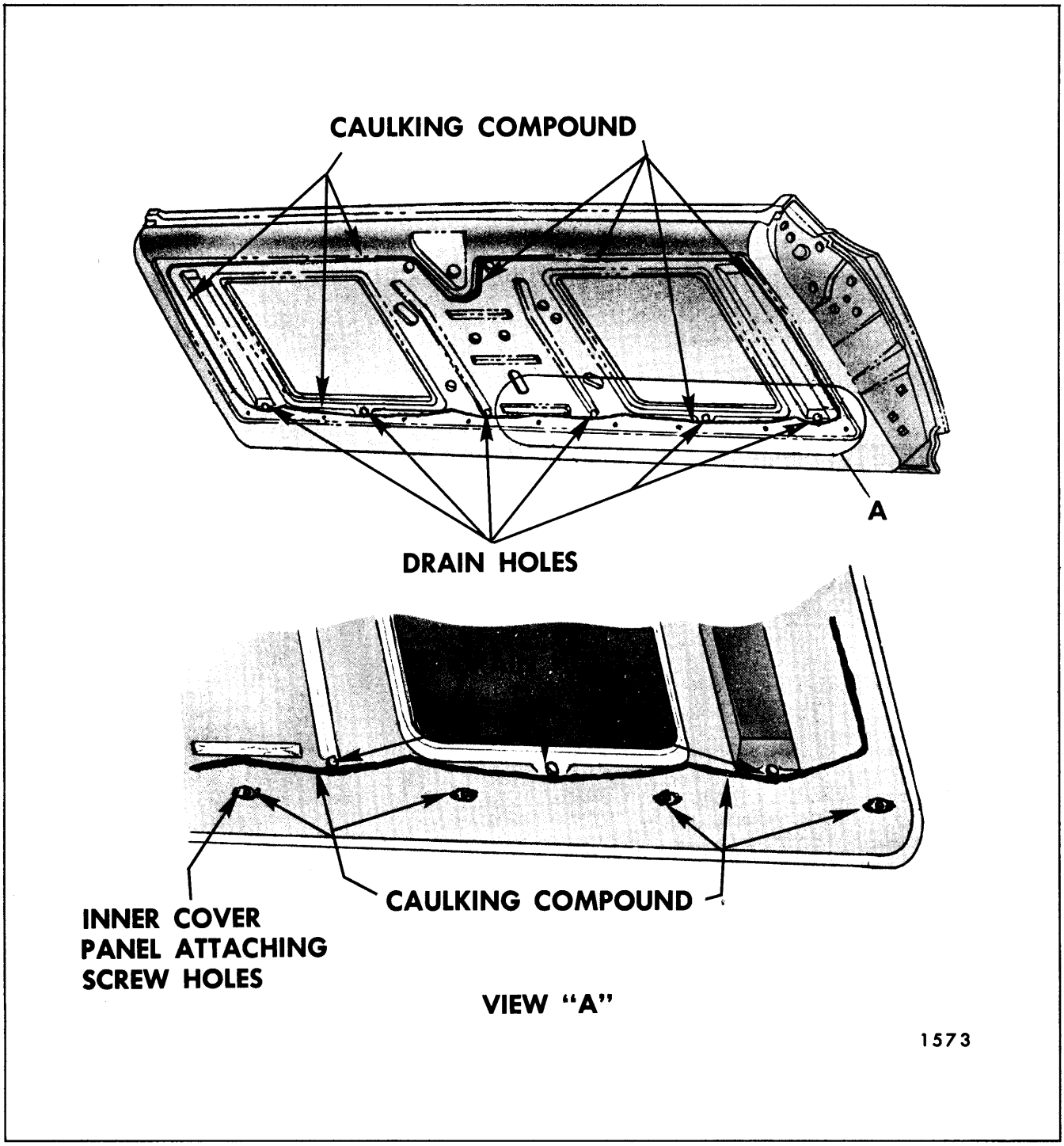


Fig. 9-2—Tail Gate Sealing

4. Position water deflector to tail gate with polyethylene coated side (black) against inner panel. Firmly press sealed areas to obtain a good bond between deflector and inner panel.

TAIL GATE INNER PANEL ACCESS HOLE COVERS

Removal and Installation

1. Remove tail gate inner panel cover and water deflector.

2. Remove upper screws securing right and left access hole covers to tail gate inner panel and remove covers by sliding upward. (See Fig. 9-3).

TAIL GATE WINDOW ASSEMBLY—MANUAL OR ELECTRIC

Removal and Installation

1. Open tail gate to gate position.
2. Remove tail gate inner panel cover, water deflector and both access hole covers.
3. Operate tail gate window to a point that sash channel cam attaching bolts are accessible through inner panel (Fig. 9-4) - See "NOTE" and "CAUTION".

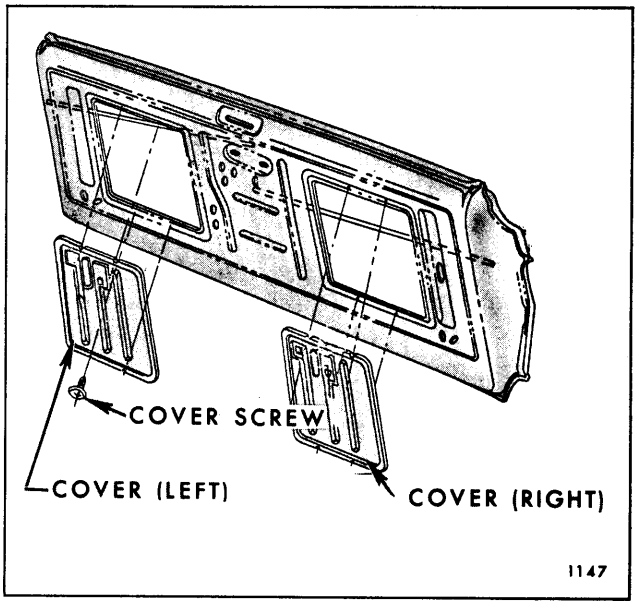


Fig. 9-3—Tail Gate Inner Panel Access Hole Cover

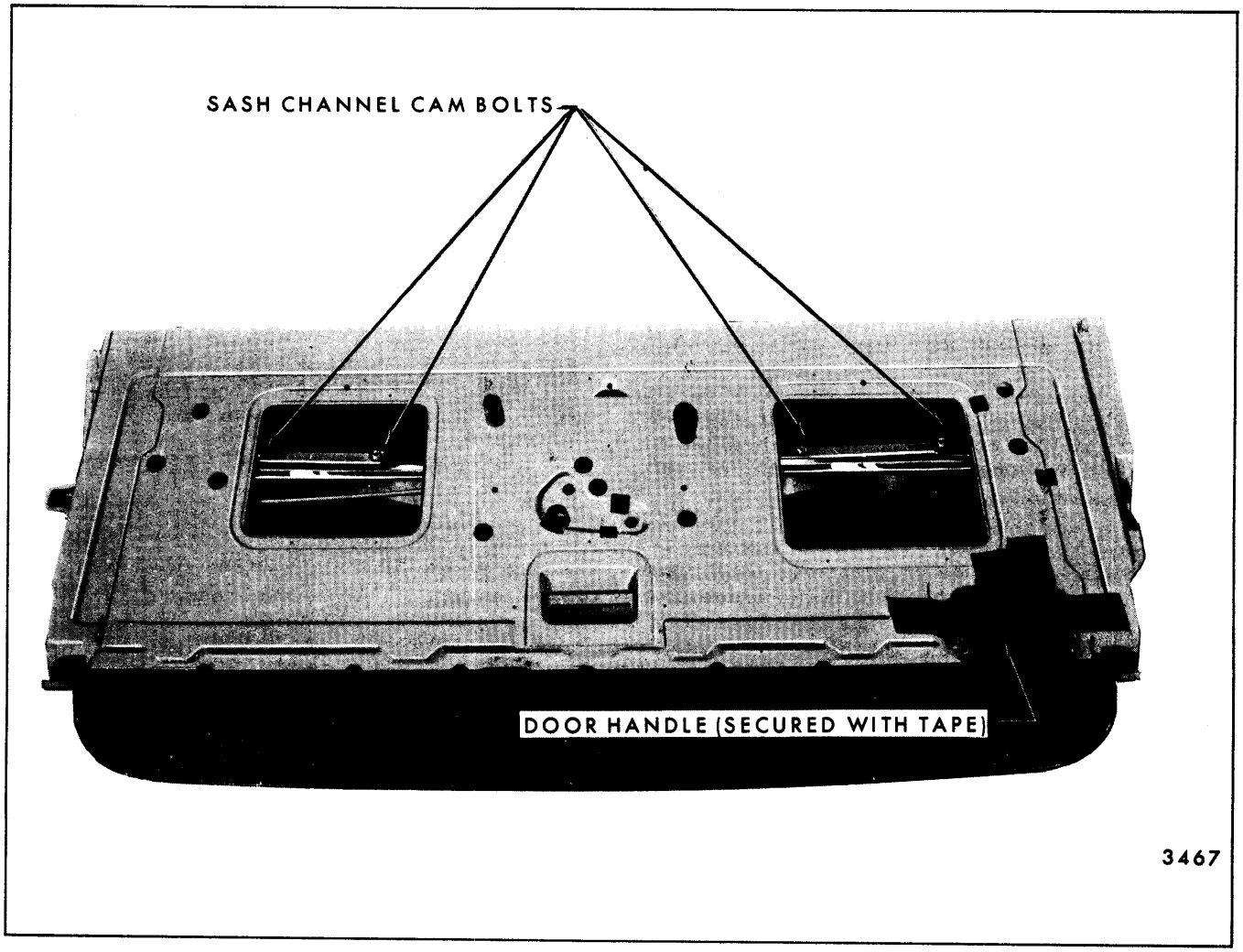


Fig. 9-4—Dual Tail Gate Glass Removal

NOTE: On manually operated tail gate windows, the glass can be raised by simply operating the outside handle. On electrically operated units, however, a switch mounted on the upper right lock assembly prevents window operation with any lock in an open position. To operate window, it is first necessary to manually lock both upper locks as follows:

A. The right upper lock is engaged by pivoting fork bolt to its full clockwise limits (arrow "A", Fig. 9-5).

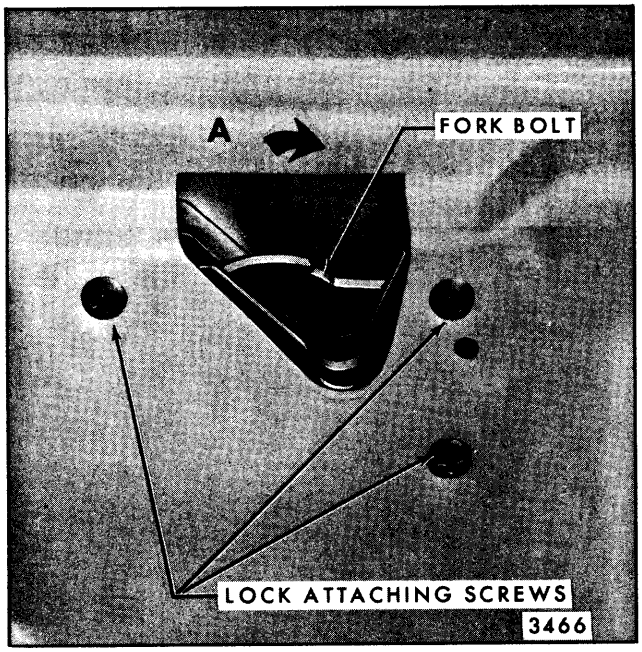


Fig. 9-5—Dual Tail Gate Right Upper Lock Engagement

B. The left upper lock is engaged by depressing (with a screwdriver, or other suitable tool) the locking lever to full engagement (Fig. 9-6).

CAUTION: With tail gate open and locks engaged (as explained in preceding note), the tail gate has been placed in a vulnerable position and could drop from the right lower lock if inside door remote handle were actuated. As a safety precaution, prior to manually locking either right or left upper locks, firmly apply body tape over inside door remote handle to render same inoperable (Fig. 9-4).

4. Remove right and left cam attaching bolts (Fig. 9-4). Slide cams free of regulator lift arm rollers and remove cams from tail gate.

5. Pull window straight out to remove from tail gate.

6. To install, reverse removal procedure.

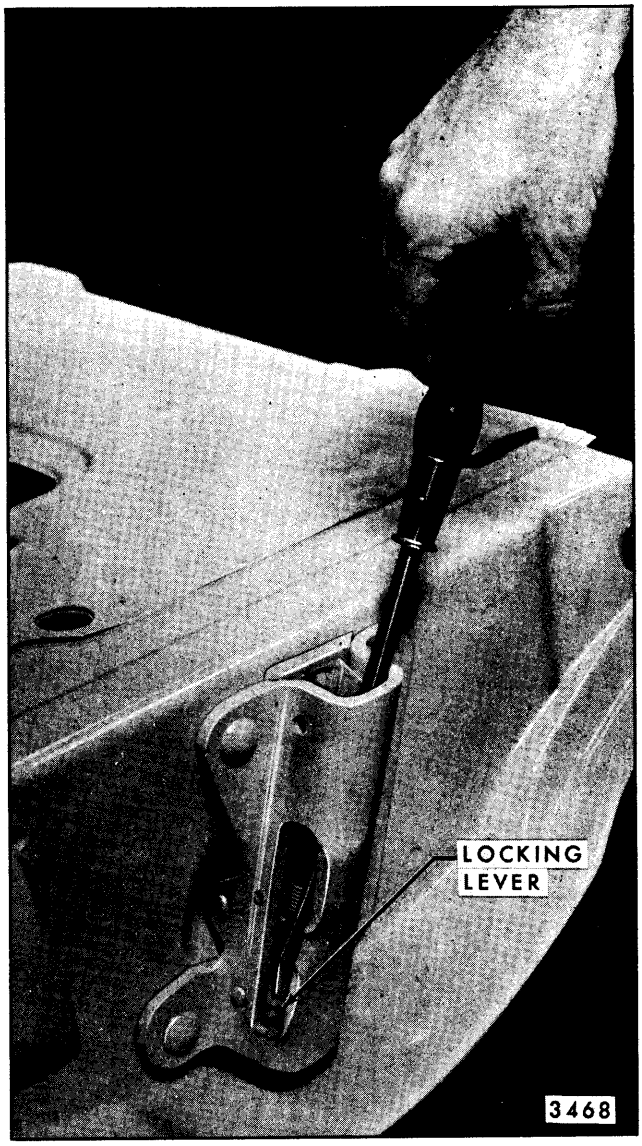


Fig. 9-6—Dual Tail Gate Left Lock Engagement

7. Right and left upper locks can be unlocked by actuating tail gate inside remote handle.

Adjustments

The tail gate glass run channels can be adjusted to relieve a binding glass. To correct a rotated glass condition, loosen window regulator attaching screws and rotate regulator clockwise or counter clockwise as required.

TAIL GATE TORQUE ROD

Removal and Installation

1. Open tail gate slightly to gate position and remove two torque rod to body retainer attaching bolts (Fig. 9-7). Disconnect torque rod assist link from torque rod and close tail gate.

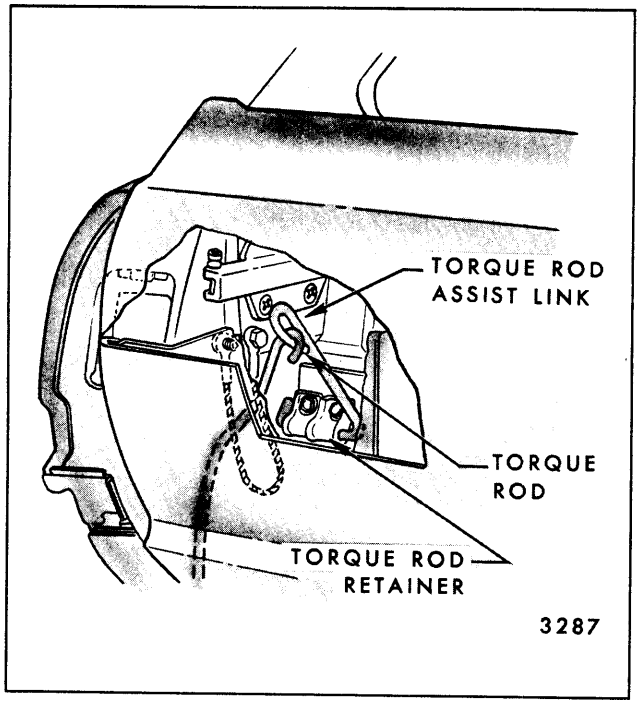


Fig. 9-7—Dual Gate - Torque Rod to Body Attachment

CAUTION: DO NOT attempt to remove torque rod or assist link unless tail gate is in a neutral position or these two parts have been disengaged.

2. Lower rear bumper as explained in "Tail Gate Assembly".

3. Lower tail gate to gate position and remove torque rod to gate retainers (Fig. 9-8).

4. Raise tail gate window sufficiently to be free of torque rod welded-in retainers on right side of tail gate.

NOTE: To raise window on electrically operated styles, refer to "Tail Gate Window Assembly", observing and adhering to the caution notes outlined therein.

5. With a suitable tool, disengage torque rod from welded-in retainers and remove rod.

6. To install, reverse removal procedure.

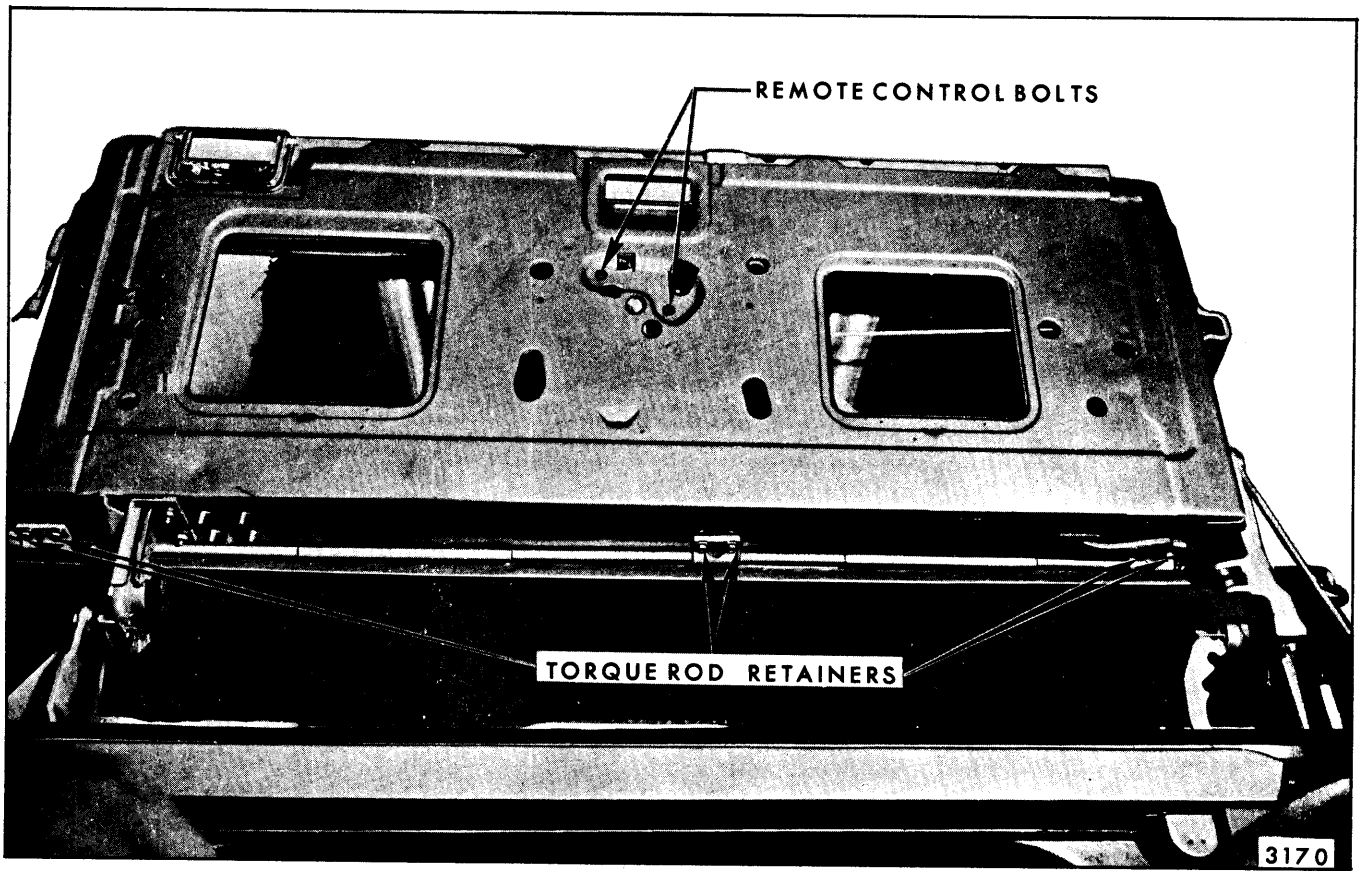


Fig. 9-8—Dual Gate Torque Rod Retention

TAIL GATE ASSEMBLY

Removal and Installation

1. Remove tail gate window as previously described.

2. On styles so equipped, disconnect electrical leads inside gate and pull main conduit free of tail gate. Close tail gate.

3. Remove two rearward chassis frame to bumper attaching bolts and loosen forward two bolts. Remove center bumper to frame bolt (under license housing) and lower bumper (Fig. 9-9).

4. Remove torque rod assist link. (Refer to Fig. 9-7).

5. Open tail gate to door position and support free end of gate (Fig. 9-10).

NOTE: For purposes of illustration, Figure 9-11 shows tail gate open in the gate position.

CAUTION: A loaded tail gate weighs in excess of 140 pounds and must be handled by two men.

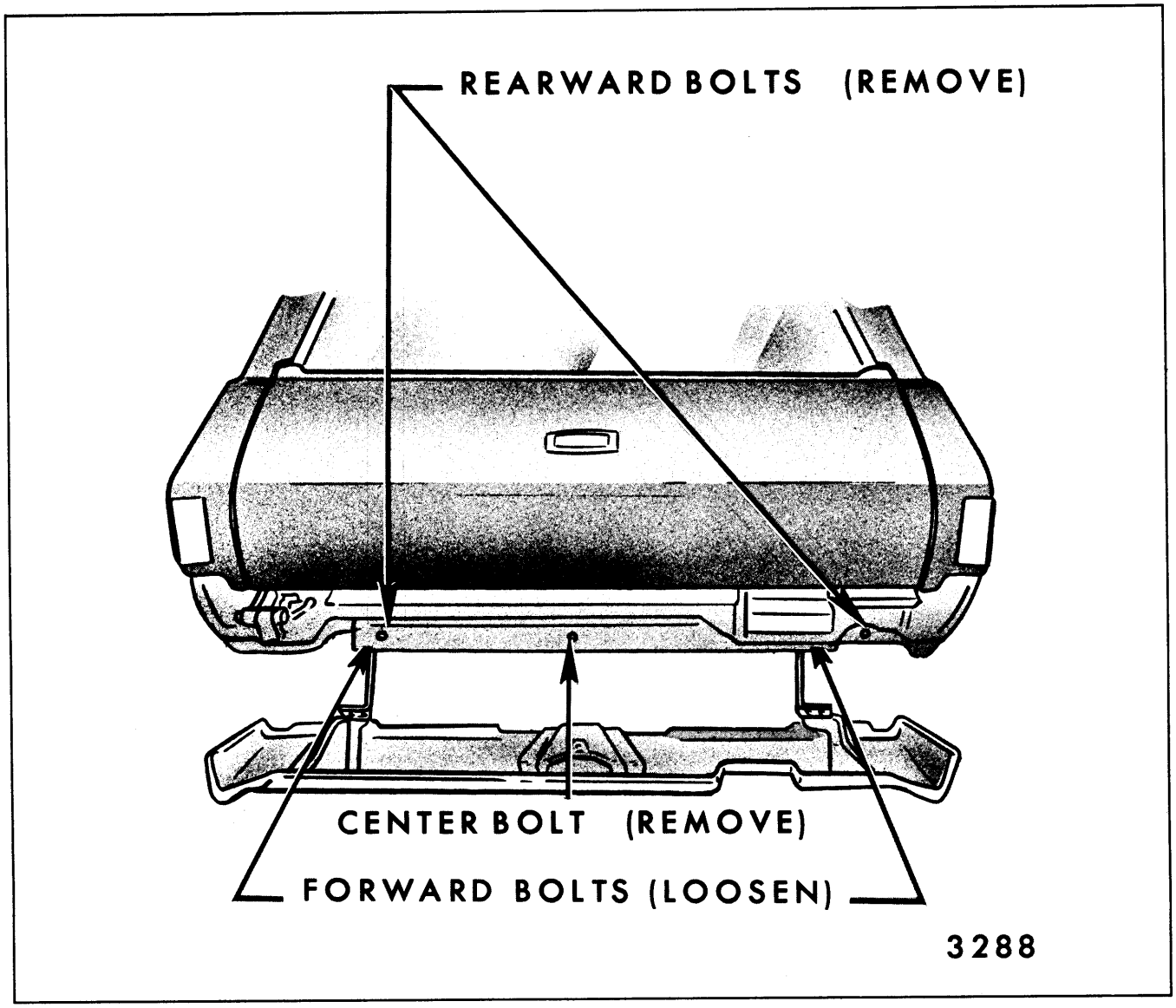


Fig. 9-9—Bumper Removal - "A" Body Shown - "B" Body Similar

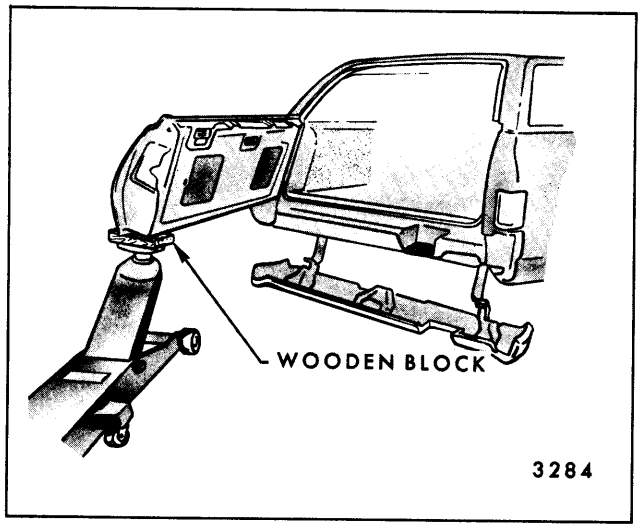


Fig. 9-10—Tail Gate Removal

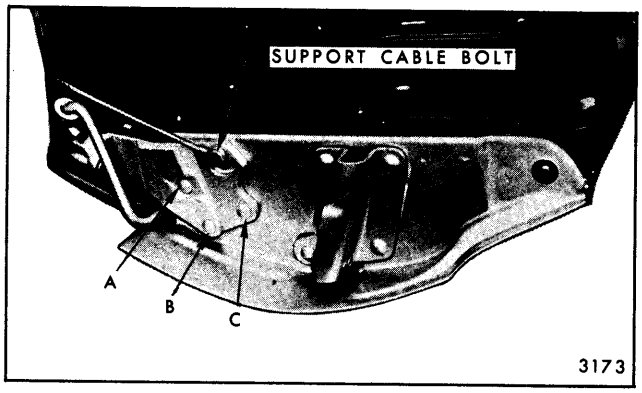


Fig. 9-11—Tail Gate Left Hinge Assembly - "B" Body Shown - "A" Body Typical

6. With the aid of a helper, remove hinge to gate attaching bolts, as follows:

   A. On "A" body styles, the support cable bolt is retained with a nut. On "B" body styles, this bolt fits into a tapping plate (Fig. 9-11).

   B. On "A" body styles, bolt A, Figure 9-11, fits into a tapping plate. Bolts B & C, Figure 9-11, are pressed into the hinge assembly and retained to the tail gate by nuts. The pressed bolts are removed with the hinge assembly - not separately.

   C. On "B" body styles, bolts A" B & C, Figure 9-11, are pressed into the hinge assembly and retained to the tail gate by nuts. The pressed bolts are removed with the hinge - not separately.

7. With all hinge to gate attaching bolts removed, remove tail gate (with aid of helper) by lifting straight upward until left lock slides free of hinge and striker assembly.

8. To install, reverse removal procedure.

   IMPORTANT: All nut retained bolts must be torqued to a minimum of forty (40) foot pounds to inhibit hinge slippage.

TAIL GATE ADJUSTMENTS

The left hinge to body attaching bolts provide side to side adjustments (See Fig. 9-12).

The left hinge to tail gate bolts are loaded into oversized holes that allow up or down and fore or aft adjustment (Fig. 9-11). The right striker support to body bolts are loaded into floating tapping plates that provide side to side and up or down adjustment. The lower striker is adjustable fore or aft and the upper striker fore or aft and up or down (Fig. 9-13).

TAIL GATE HINGE—Left Side

Removal and Installation

1. Scribe location of hinge on tail gate and back body pillar, then remove tail gate as previously described.

2. Remove hinge to body attaching bolts and remove hinge (Fig. 9-12).

3. To install, reverse removal procedure.

TAIL GATE WINDOW REGULATOR—Manual and Electric

Removal and Installation

1. Remove tail gate window assembly.

2. On styles equipped with a power operated tail gate window assembly, disconnect electric harness at regulator motor connector.

3. Remove bolts securing regulator to support and remove regulator, with motor attached, from tail gate. (Refer to Fig. 9-1).

4. To install, reverse removal procedure.

TAIL GATE WINDOW ELECTRIC REGULATOR MOTOR ASSEMBLY

Removal

1. Open tail gate and remove tail gate inner cover

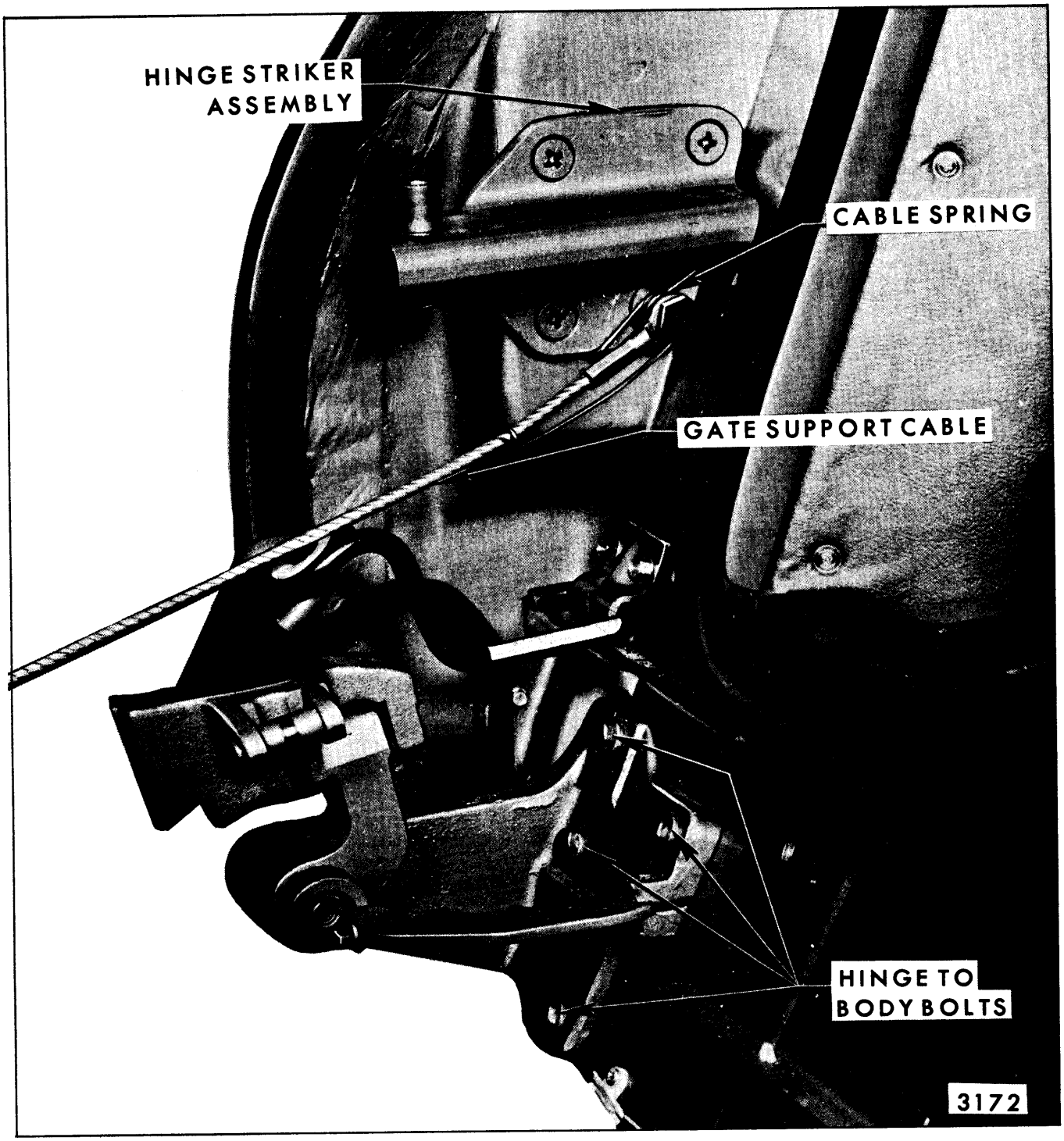


Fig. 9-12—Tail Gate Adjustments - "B" Body Shown - "A" Body Typical

panel. If necessary, cover can be removed with gate in the closed position.

2. Detach inner panel water deflector and remove left access hole cover.

3. Disconnect wire harness connector from motor.

NOTE: In the event a power operated window motor fails with tail gate closed and glass in the closed (up) position, remove window sash channel cams and manually lower glass to bottom of gate.

IMPORTANT: Step 4 must be performed if the window is removed or disengaged from

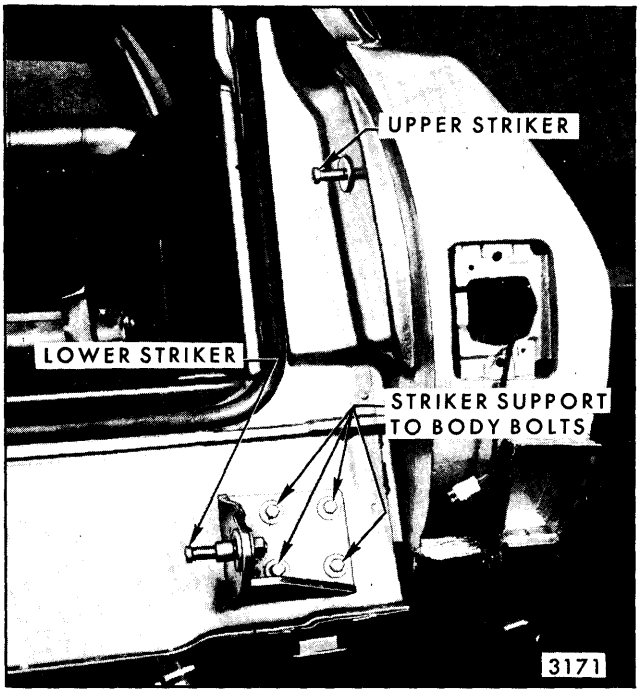


Fig. 9-13—Tail Gate Adjustments - "B" Body Shown - "A" Body Typical

the regulator lift arms. The regulator lift arms, which are under tension from the counter-balance spring, can cause serious injury if the motor is removed without locking the sector gears in position.

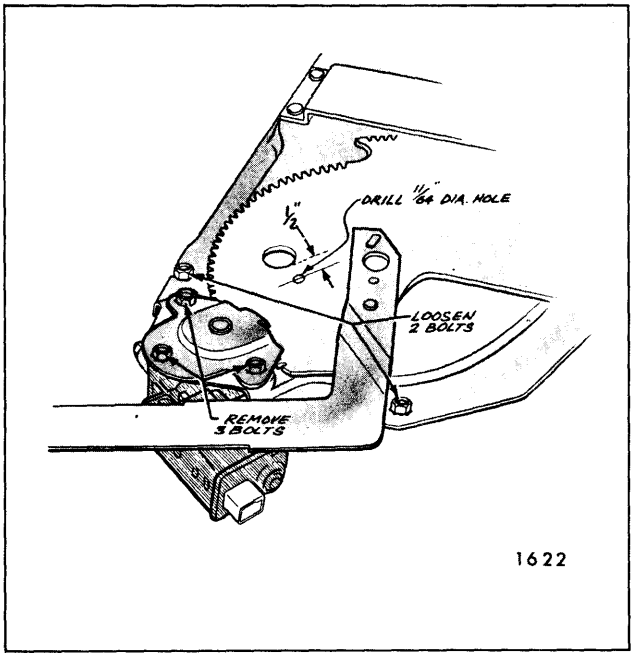


Fig. 9-14—Tail Gate Regulator Motor Assembly

4. Drill a 1/8" hole through regulator sector gear and back plate (Fig. 9-14). Do NOT drill hole closer than 1/2" to edge of sector gear or back plate. Install a pan head sheet metal tapping screw (#10-12 x 5/8) in drilled hole to lock sector gears in position.

5. Remove regulator motor attaching screws and remove motor assembly from regulator and tail gate.

Installation

1. Lubricate the motor drive gear and regulator sector teeth.

   NOTE: The lubrication used must be cold weather approved to a minimum of -20 degrees fahrenheit.

2. With tail gate in an open position, install regulator motor to regulator. Make sure the motor pinion gear teeth mesh properly with the sector gear teeth before installing the three motor attaching screws.

3. Remove screw locking sector gears into a fixed position.

4. Connect wire harness to motor and cycle tail gate window prior to installation of inner panel access hole cover, water deflector and cover panel.

TAIL GATE SAFETY SWITCH

Description

The tail gate safety switch is standard equipment on all station wagon styles equipped with a power operated tail gate window. This switch is mounted on the right upper lock and is designed to prevent upward movement of glass with tail gate in any position other than fully closed.

NOTE: In the event the tail gate safety switch fails with gate closed and glass in the fully lowered (open) position, refer to Dual Acting Tail Gate Servicing Procedures Chart for procedures to raise glass.

Removal

1. With glass in up position, remove tail gate

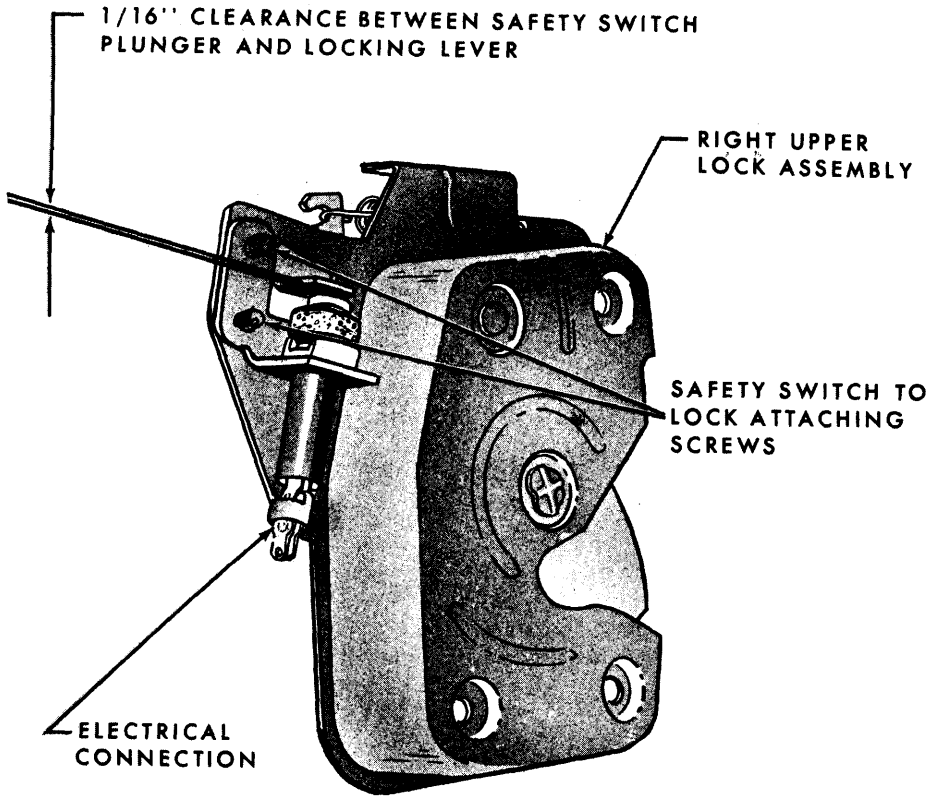


Fig. 9-15—Dual Tail Gate Electrical Safety Switch

inner panel cover, water deflector and right access hole cover.

2. Remove screws (2) securing switch to right upper lock, disconnect electrical conduit and remove switch (See Fig. 9-15).

Installation

1. Connect electrical conduit and loosely attach switch to lock assembly.
2. With tail gate closed, adjust switch to achieve

a 1/16" clearance between safety switch plunger and lock locking lever (See Fig. 9-15).

IMPORTANT: The adjustment specified in Step #2 is absolutely necessary to insure proper operation of switch.

3. Following proper adjustment of safety switch, secure attaching screws and cycle tail gate window and gate to insure proper operation prior to installation of cover panel, water deflector and trim pad.

2. Remove inner panel cover, water deflector and one access hole cover.

3. Position tail gate window so that outside handle (manual) attaching nuts are accessible through gate inner panel and window regulator access holes (Fig. 9-16).

4. Remove nuts securing handle to tail gate and remove handle and sealing gasket.

5. To install, reverse removal procedure.

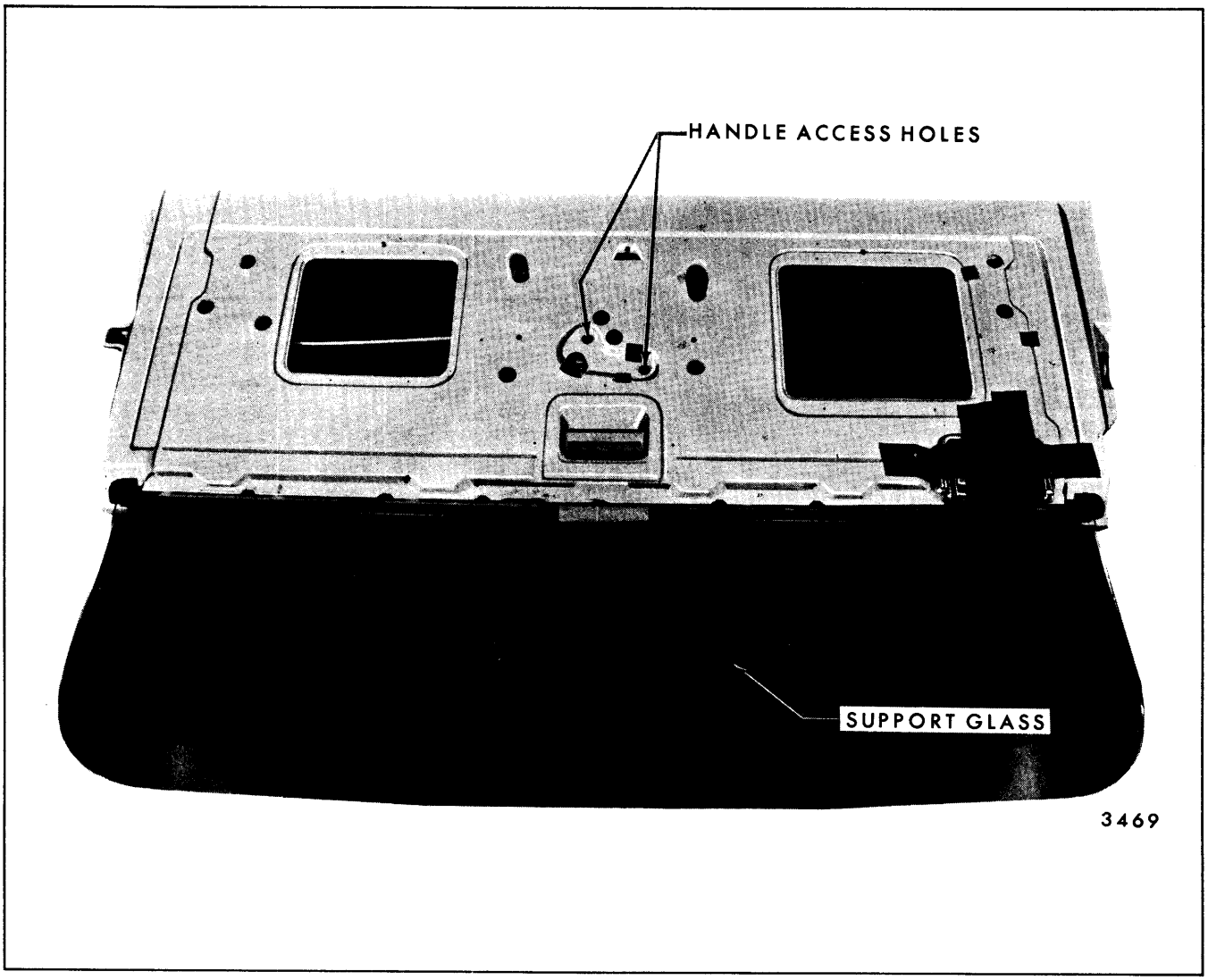


Fig. 9-16—Tail Gate Window Manual Outside Handle Removal

TAIL GATE WINDOW REGULATOR MANUAL OUTSIDE HANDLE

Removal and Installation

1. Open tail gate in door position.

TAIL GATE WINDOW REGULATOR OUTSIDE ELECTRIC KEY SWITCH

Removal and Installation

1. Open tail gate in door position.

2. Remove inner panel cover, water deflector and access hole covers.

3. Remove tail gate window assembly and loosen tail gate window regulator so that key switch retainer is accessible through tail gate inner panel.

   NOTE: To remove a power operated tail gate window, refer to "Tail Gate Window" in this section. Carefully read the CAUTION note.

4. Slide retainer free of key switch and remove switch (See Figure 9-17 for "A" body styles and Figure 9-18 for "B" body styles.)

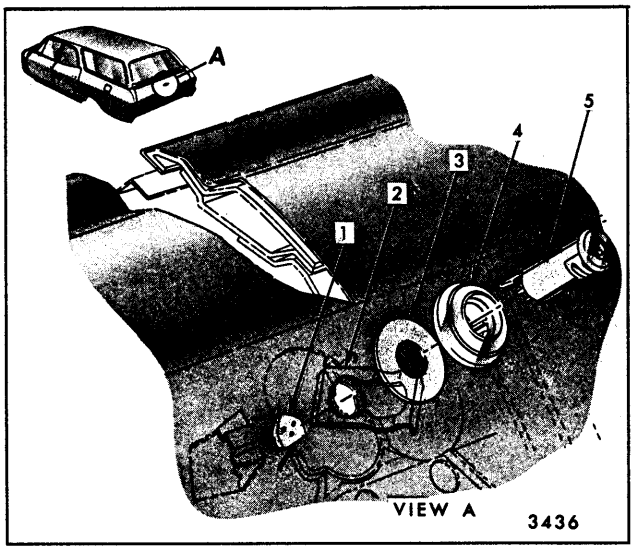


Fig. 9-17—Dual Gate Electric Key Switch and Cylinder Removal - "A" Body

1. Feed Block
2. Retainer
3. Gasket
4. Escutcheon
5. Key Switch and Cylinder Assembly

5. To install, reverse removal procedure.

TAIL GATE WINDOW LOWER GLASS RUN CHANNELS

Removal and Installation

1. Remove tail gate window assembly.

2. Remove upper attaching bolt - accessible at lock pillar outer panel.

3. Remove lower attaching bolt - accessible through inner panel access hole (Fig. 9-19).

4. Turn run channel 90° and pull run channel(s) down into tail gate and remove through glass opening.

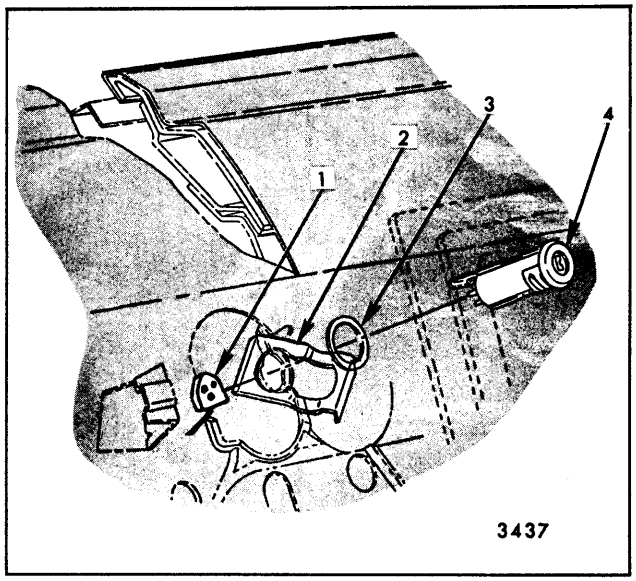


Fig. 9-18—Dual Gate Electric Key Switch and Cylinder Removal

1. Feed Block
2. Retainer
3. Gasket
4. Key Switch and Cylinder Assembly

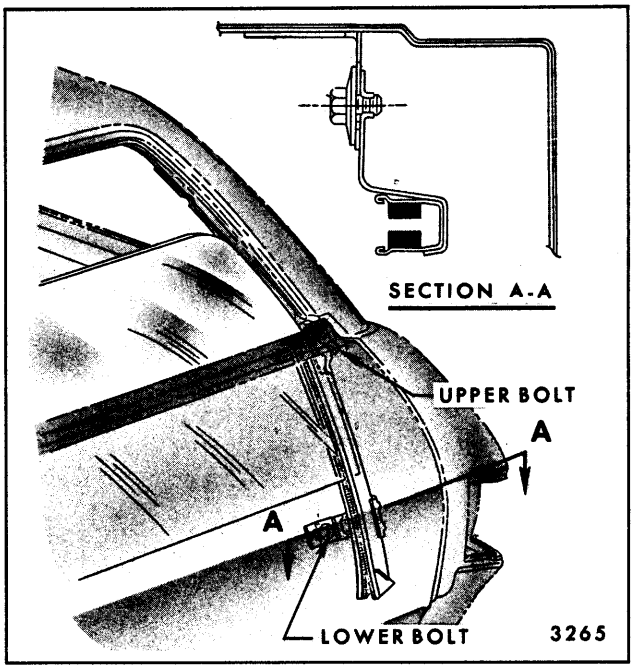


Fig. 9-19—Tail Gate Lower Glass Run Channel Attachment

5. To install, reverse removal procedure.

TAIL GATE REMOTE CONTROL INSIDE HANDLE—Gate Operation (Center)

Removal and Installation

1. Raise inside handle and disengage remote push rod from spring clip (See Fig. 9-20).

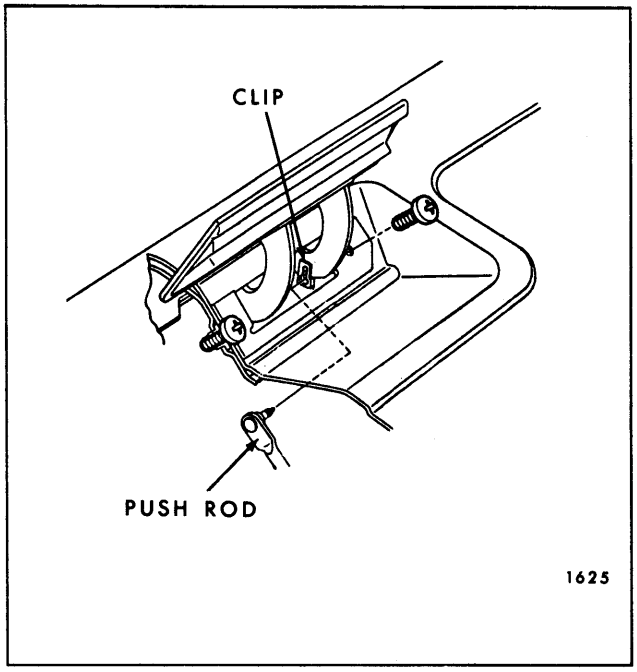


Fig. 9-20—Tail Gate Inside Handle Attachment

2. Remove screws securing handle to inner panel and remove handle.

3. To install, reverse removal procedure.

TAIL GATE REMOTE CONTROL INSIDE HANDLE—Door Operation (Right Side)

Removal and Installation

1. Open tail gate in door position.

2. Remove inner panel cover, water deflector and left access hole cover.

3. Disengage handle cable at upper lock clip (Fig. 9-21).

4. Raise inside handle and remove screws securing handle to inner panel and remove handle.

5. To install, reverse removal procedure.

NOTE: This handle is equipped with a sealing strip (Part No. 8744881). Should this sealing strip become damaged, it should be replaced with a new piece, available as a service part.

TAIL GATE LOCK REMOTE CONTROL ASSEMBLY—Gate Operation (Center)

Removal

1. Open tail gate to gate position.

2. Remove inner panel cover, water deflector and access hole covers.

3. Disconnect remote control to lock connecting rods at remote assembly by sliding clips out of engagement.

4. Remove remote control to tail gate inner panel attaching bolts (Fig. 9-22).

5. Disengage remote control center handle from push rod and remove remote control and rod assembly (Fig. 9-23).

Installation

1. Install remote control (two bolts) to inner panel.

2. Install a small nail or cotter pin in hole provided in remote control (Fig. 9-24).

3. Loosen remote adjusting screw.

NOTE: The remote control adjusting screw is used to insure that right and left locks and gate control push rod are synchronized. This screw is left hand thread.

4. Connect all remote rods and close tail gate.

5. Working through inner panel, tighten adjusting screw.

6. Remove cotter pin or nail (Fig. 9-24).

NOTE: Use of the cotter pin (supplied with replacement part) insures that remote is not installed in a position that would hold any lock in a partially open attitude. This pin holds all levers in position until final adjustment has been achieved.

7. Open tail gate and reinstall access hole covers, water deflector and inner panel cover.

TAIL GATE UPPER LOCK ASSEMBLY—Right Side

Removal

1. Remove tail gate window assembly.

2. Remove tail gate window right lower glass run channel. Close tail gate and re-open in door position.

3. Remove three screws securing lock to tail gate lock pillar panel (Fig. 9-25).

4. Disengage inside handle cable (Fig. 9-21).

5. With gate open in door position, disengage

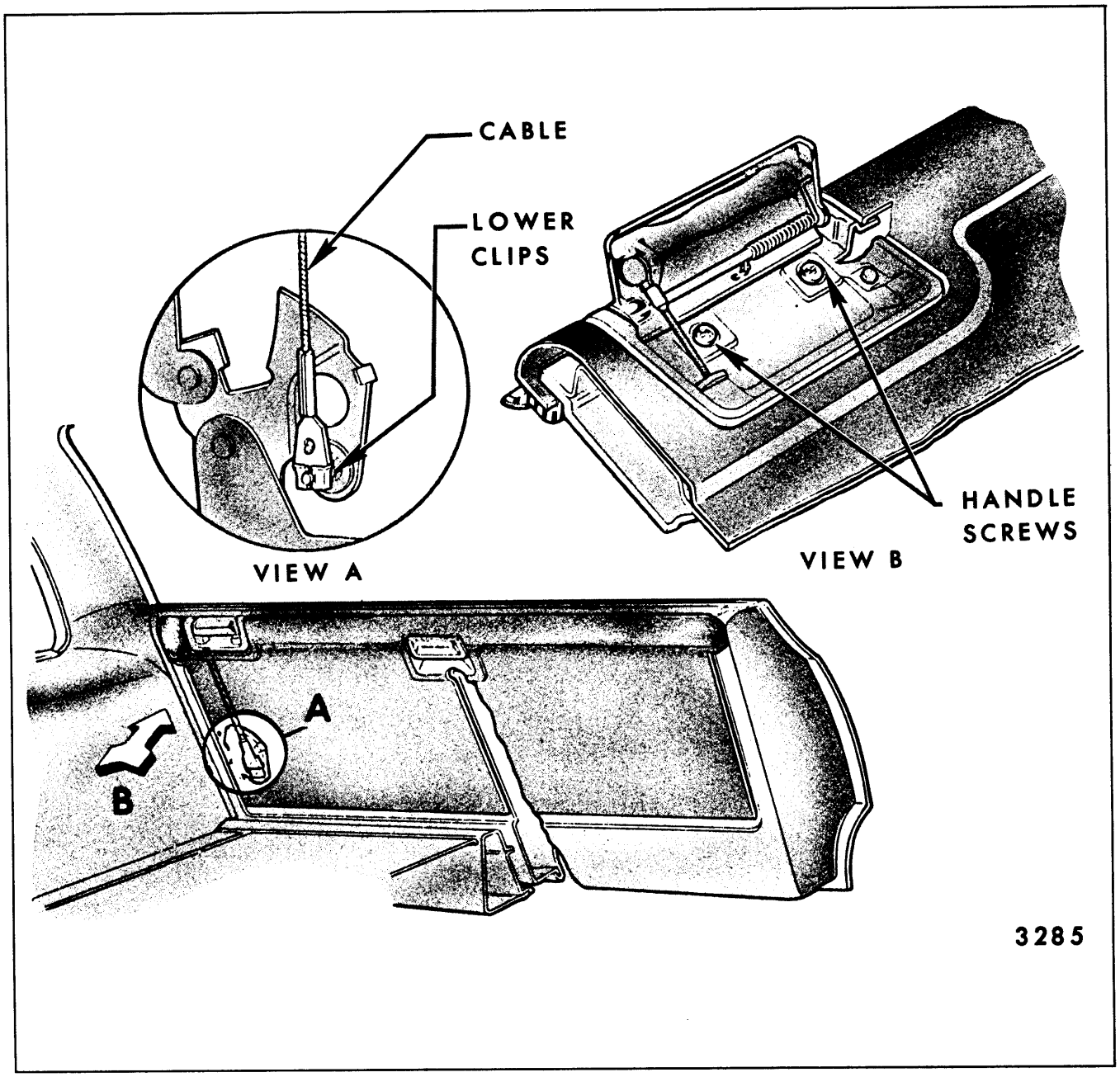


Fig. 9-21—Tail Gate Remote Control Inside Handle - Door Operation

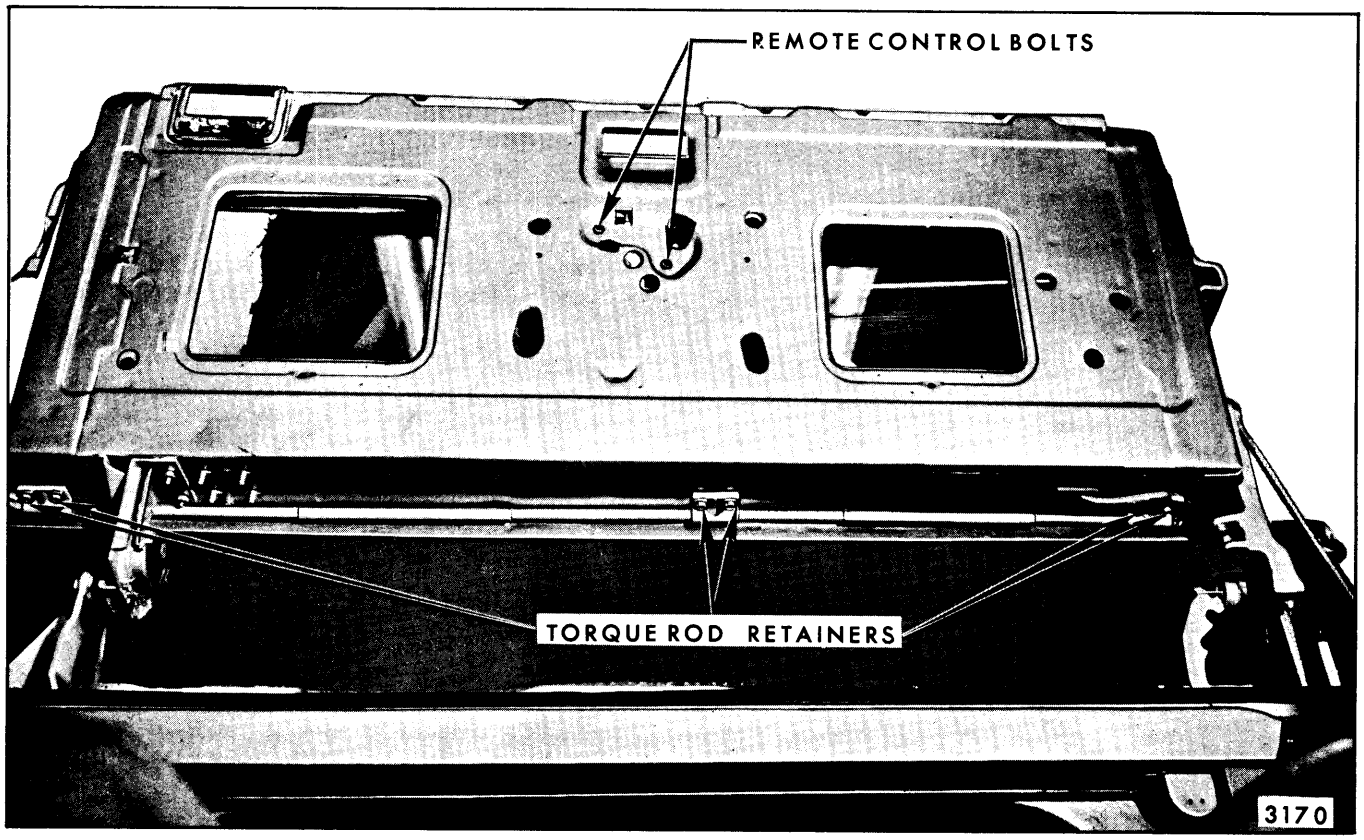


Fig. 9-22—Dual Gate Torque Rod Retention

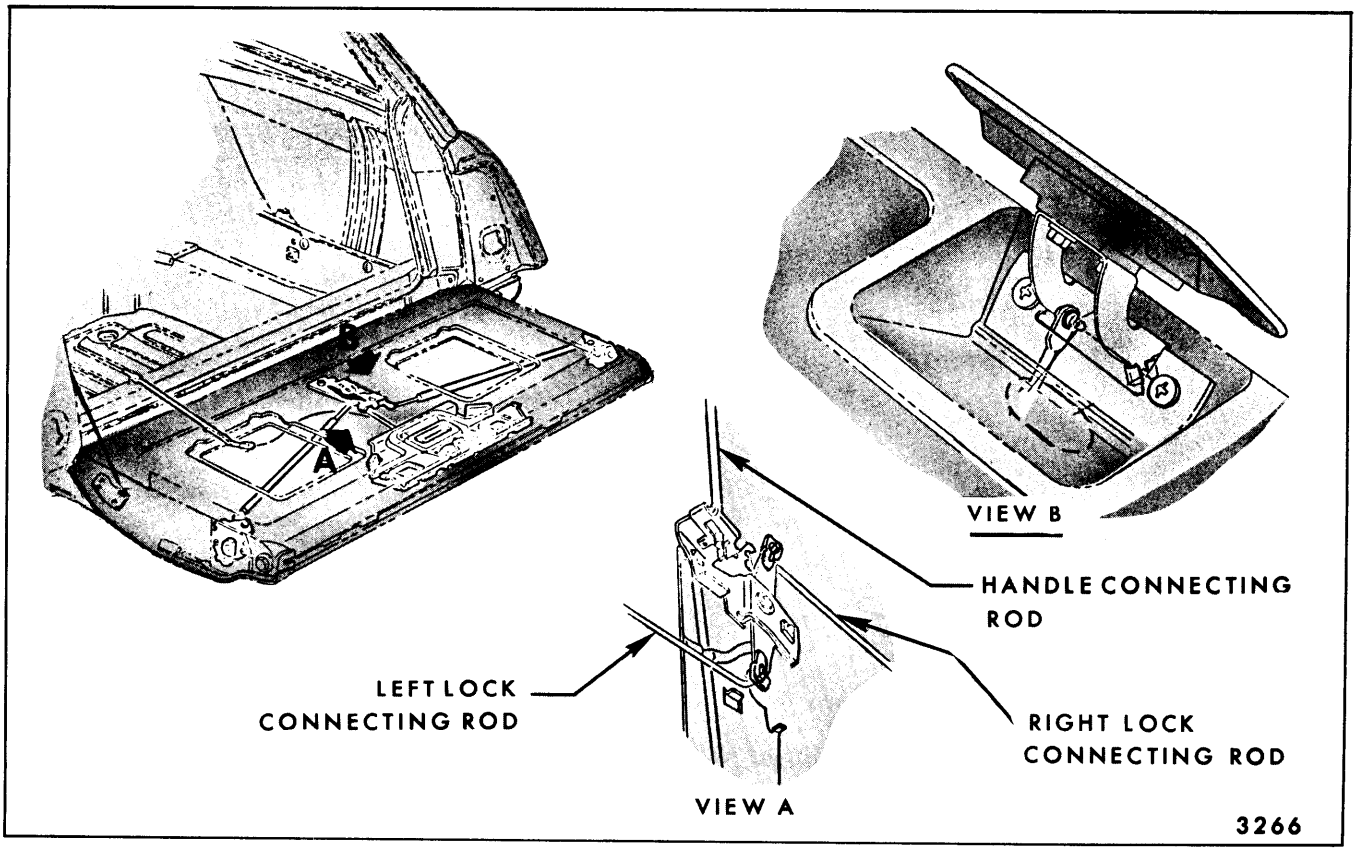


Fig. 9-23—Tail Gate Lock Remote Control Assembly - Gate Operation (Center)

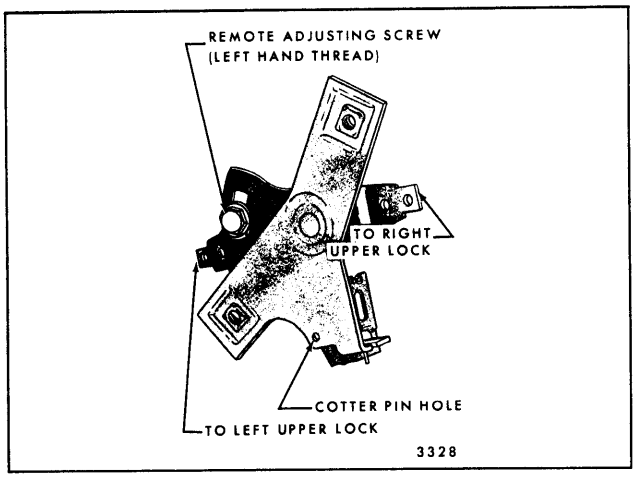


Fig. 9-24—Tail Gate Lock Remote Control - Gate Operation

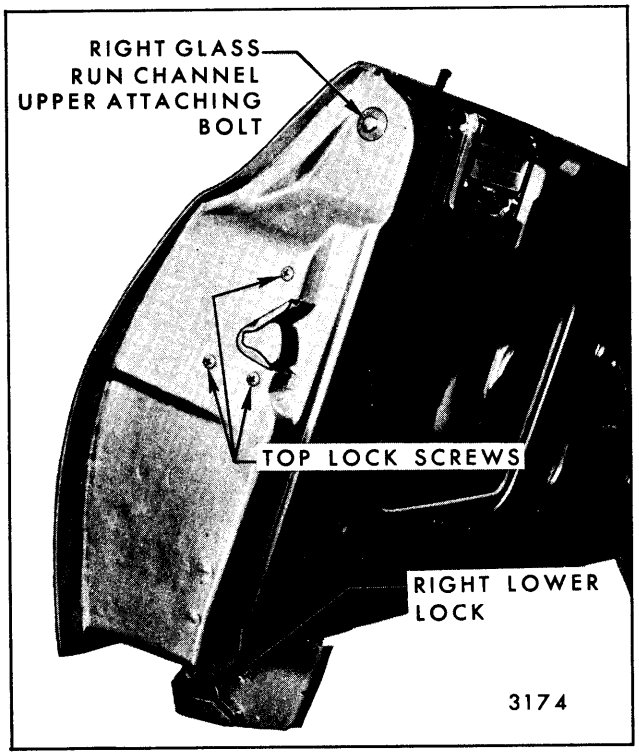


Fig. 9-25—Dual Tail Gate Lock Attachments - Right Side

clips securing lower lock connecting rod, remote control to lock connecting rod and tail gate window "block-out" rod (Fig. 9-26).

CAUTION: DO NOT pull remote control rod. Excessive movement of this rod could unlock upper left lock assembly.

6. On electric styles, disconnect safety switch and remove lock assembly (Fig. 9-27).

Installation

1. Install screws (three) securing lock to tail gate lock pillar panel (Fig. 9-25).

2. Loosen lower lock connecting rod to upper lock adjusting screw (10 in Fig. 9-26).

3. Connect lower lock, remote control connecting rod and block-out rod.

NOTE: When installing upper to lower connecting rod, move locking lever of upper lock to meet rod.

4. Engage inside handle cable and close tail gate.

5. Working through inner panel, tighten adjusting screw.

NOTE: The lower lock connecting rod to top lock linkage adjusting screw is utilized in synchronizing upper and lower lock operation. This adjusting screw is RIGHT HAND thread. Synchronization with left hand lock must also be checked as covered on page 9-28.

6. Open gate and reinstall all previously removed components.

NOTE: Service shims are available for tail gate striker assemblies. These shims are the same parts used in body side doors. If installing new lock, rubber dust seal must be transferred from removed lock.

Fig. 9-26—Dual Tail Gate Lock and Remote Control Linkage

1. Left Lock Assembly
2. Remote to Left Lock Connecting Rod
3. Remote (Gate Operation) Inside Handle
4. Remote to Inside Handle Push Rod
5. Remote to Right Lock Connecting Rod
6. Remote Control Assembly
7. Remote (Door Operation) Inside Handle
8. Door Inside Handle to Right Lock Connecting Rod
9. Right Upper Lock Assembly
10. Right Locks Synchronizing Adjusting Screw
11. Tail Gate Window "Lock-out" Rod
12. Lock-Out Rod Adjusting Bolt
13. Right Lower Lock
14. Right Upper to Lower Lock Connecting Rod

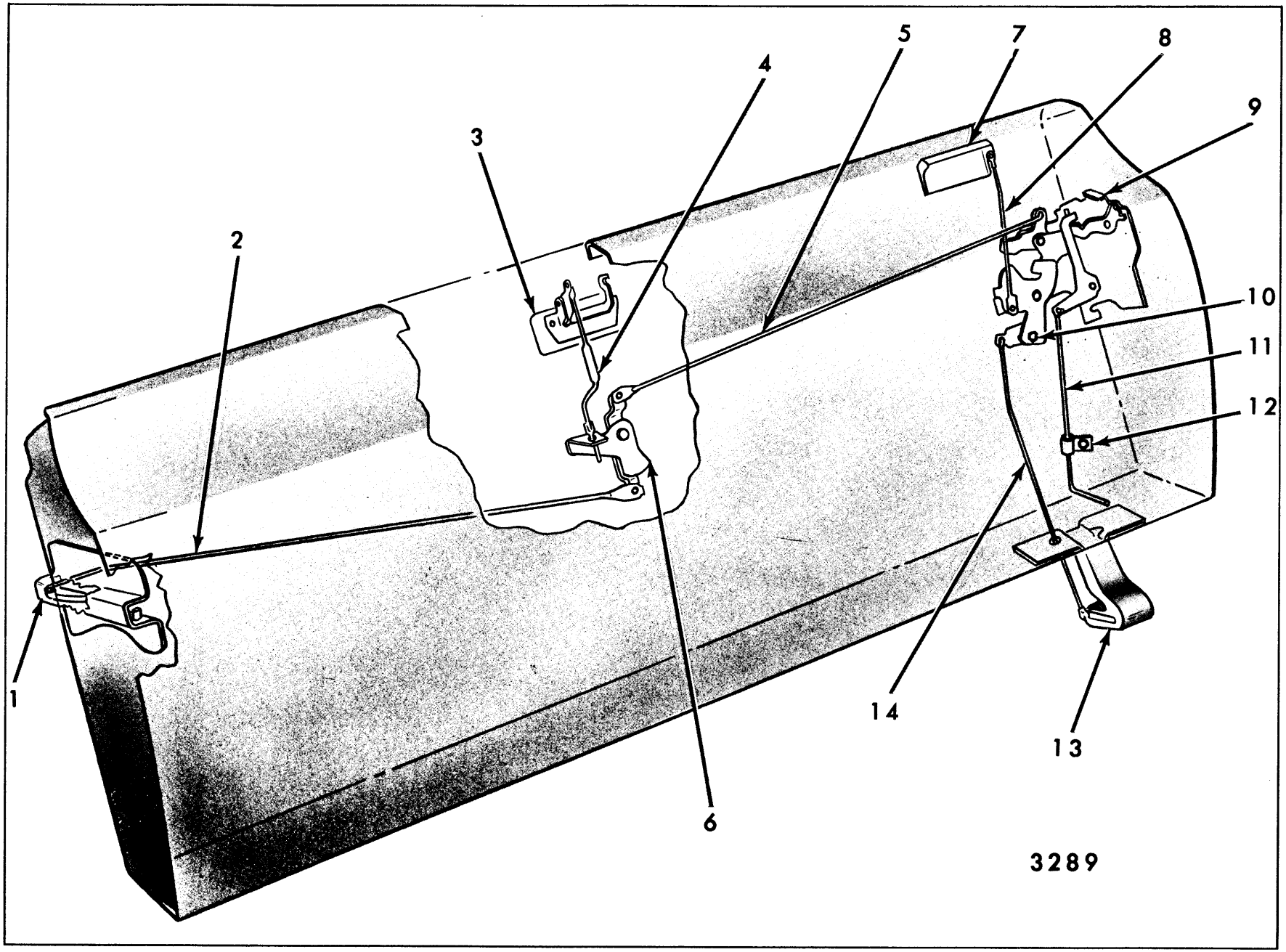


Fig. 9-26—Dual Tail Gate Lock and Remote Control Linkage

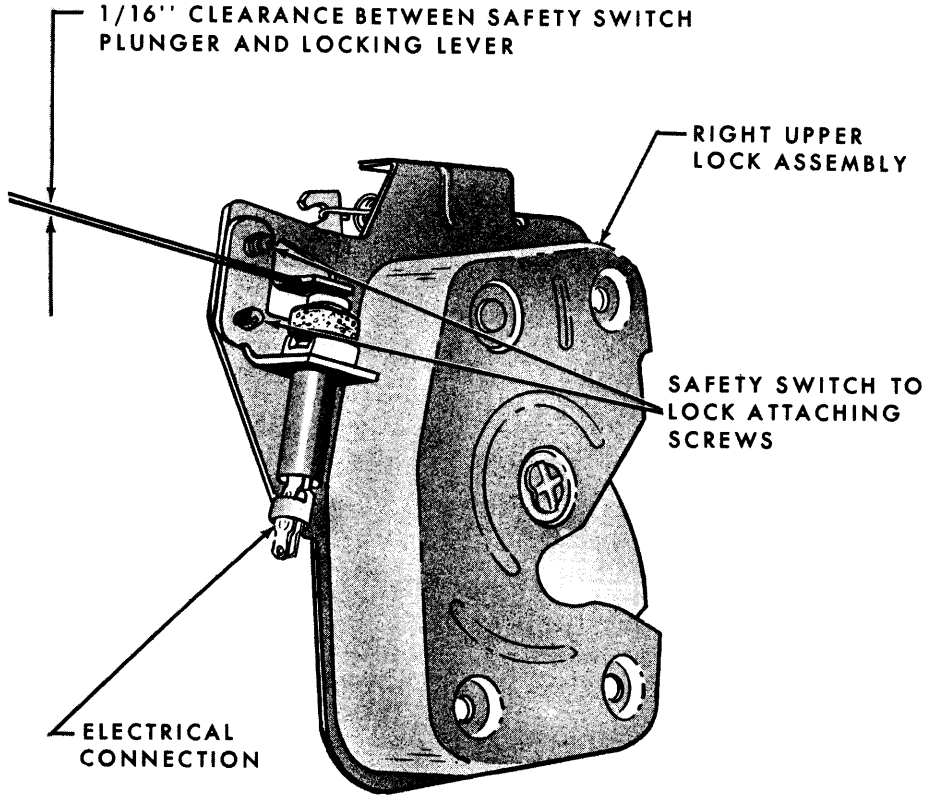


Fig. 9-27—Dual Tail Gate Electrical Safety Switch

TAIL GATE LEFT LOCK ASSEMBLY

Removal and Installation

1. Remove tail gate window. Scribe (mark) position of lock on tail gate.
2. On "B" body styles, bolts A, B, C & D (Fig. 9-28) are all retained by nuts accessible through tail gate inner panel. On "A" body styles, bolts A & B fit into a tapping plate and bolts C & D are retained by nuts. In either

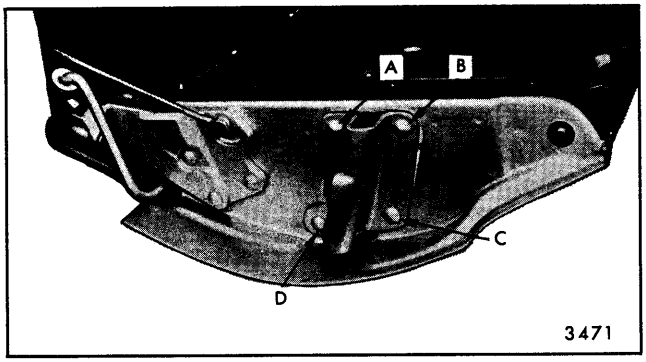


Fig. 9-28—Tail Gate Left Lock Assembly - "B" Body Shown - "A" Body Typical

case and on both style series, all bolts are pressed into the lock assembly and removed as a unit - not separately.

3. Disengage clip securing remote control assembly rod and remove lock assembly (Fig. 9-26).

4. To install, align lock assembly within scribe marks and reverse removal procedure. All nuts must be torqued to a minimum of forty (40) foot pounds. Close tail gate and synchronize all locks.

NOTE: This lock is equipped with a dust cover (available as a service part (Part No. 8717579).

TAIL GATE UPPER HINGE AND STRIKER ASSEMBLY

Removal and Installation

1. Open tail gate to gate position.

2. With gate properly supported, remove hinge and striker attaching screws and remove assembly from left body hinge pillar.

NOTE: The support cable spring, shown in Figure 9-29, must be reinstalled in depicted position to insure proper movement of cable during gate operation.

3. To install, reverse removal procedure.

NOTE: Shims of 1/4" and 5/16" are available as service parts.

TAIL GATE RIGHT LOWER LOCK ASSEMBLY

Removal and Installation

1. Open tail gate to door position.

2. Remove lower lock cover and disengage upper to lower lock connecting rod at lower lock (Fig. 9-26).

CAUTION: Step No. 2 can be performed only when gate is open in door position.

3. Scribe (mark) lower lock position on tail gate. From underside of tail gate, remove lower lock attaching nuts and screws and remove assembly from tail gate (Fig. 9-30).

4. To install, reverse removal procedure. When installing new lock, transfer dust seal from removed lock.

IMPORTANT: Reinstall lock in the closed (locked) position. DO NOT pull lower lock connecting link up to connecting rod (14 in Fig. 9-26). Following installation, open lock using door handle, close tail gate and synchronize all locks.

NOTE: The bumperette covering outside surface of lower lock assembly is also adjustable.

TAIL GATE RIGHT LOWER STRIKER AND SUPPORT ASSEMBLY

Removal and Installation

1. Open tail gate and remove striker cover plate (top).

2. Scribe (mark) position of striker support on body and remove support (Fig. 9-31).

3. To install, reverse removal procedure.

Adjustments

The striker support is adjustable up or down and side to side. The lower striker is adjustable fore or aft and side to side with usage of service shims (Fig. 9-31).

TAIL GATE BOTTOM DRAIN HOLE SEALING STRIPS

Removal and Installation

1. With a flat-bladed tool carefully pry out snap-on fastener at each end of strip and remove sealing strip from tail gate.

2. To install sealing strips, reverse removal procedure. To prevent strip from adhering

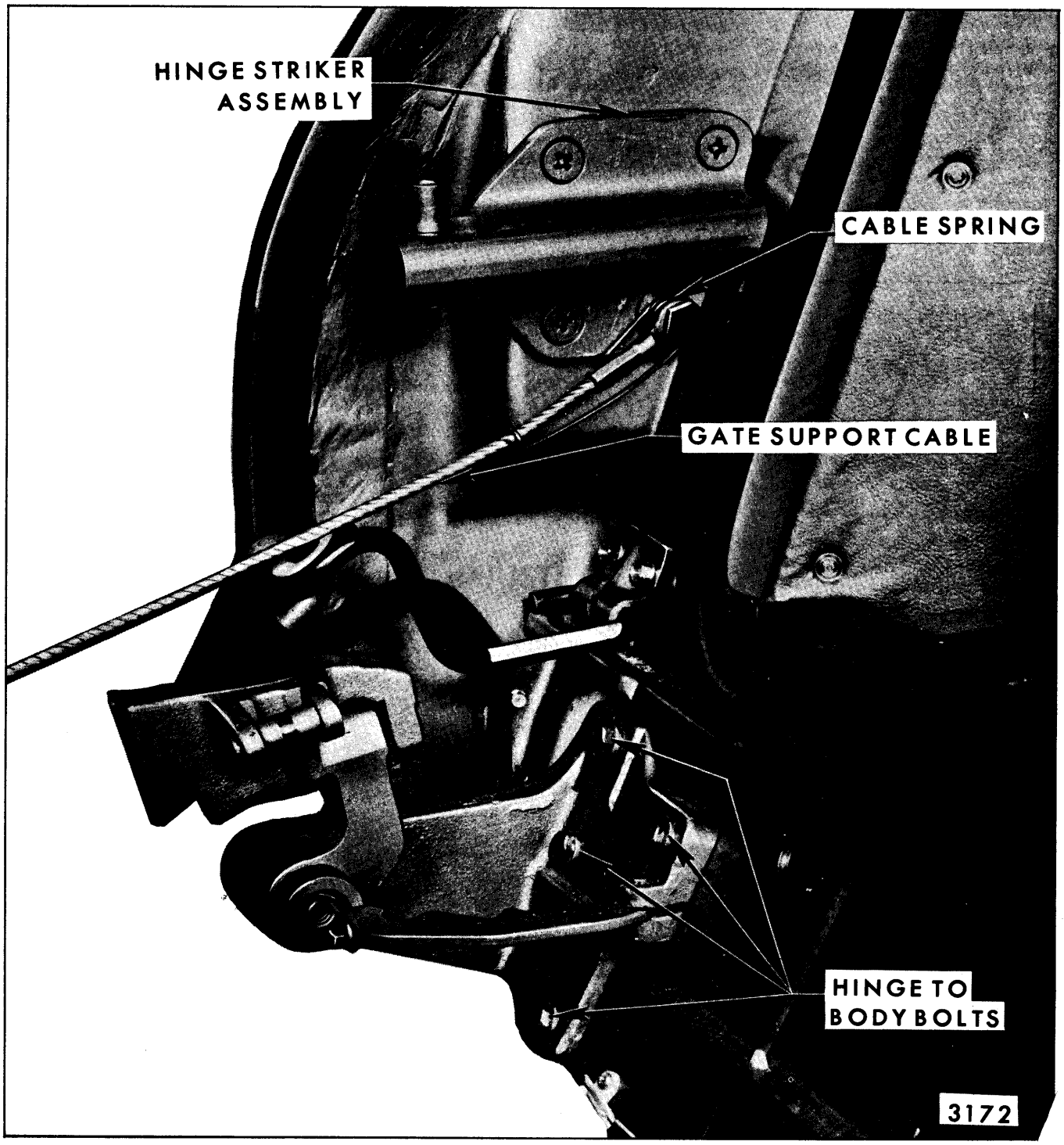


Fig. 9-29—Tail Gate Adjustments - "B" Body Shown - "A" Body Typical

to the tail gate panel and blocking the drain holes, apply a sparing amount of silicone rubber lubricant on the center section of the sealing strip (See Illustration under "Front and Rear Door Bottom Drain Hole Sealing Strips").

TAIL GATE OPENING WEATHERSTRI

Removal and Installation

1. Open tail gate and remove fastener screws securing weatherstrip to rig body pillars (at belt) (Fig. 9-32).

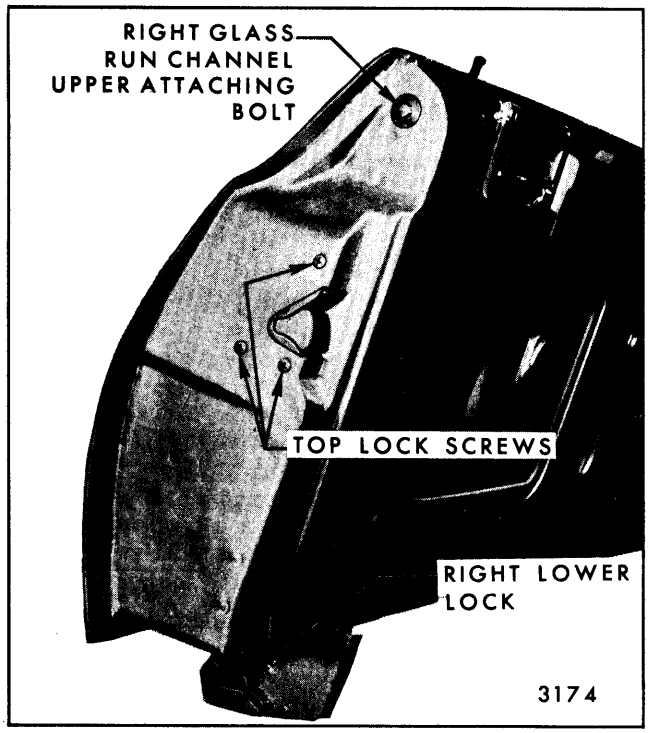


Fig. 9-30—Dual Tail Gate Lock Attachments - Right Side

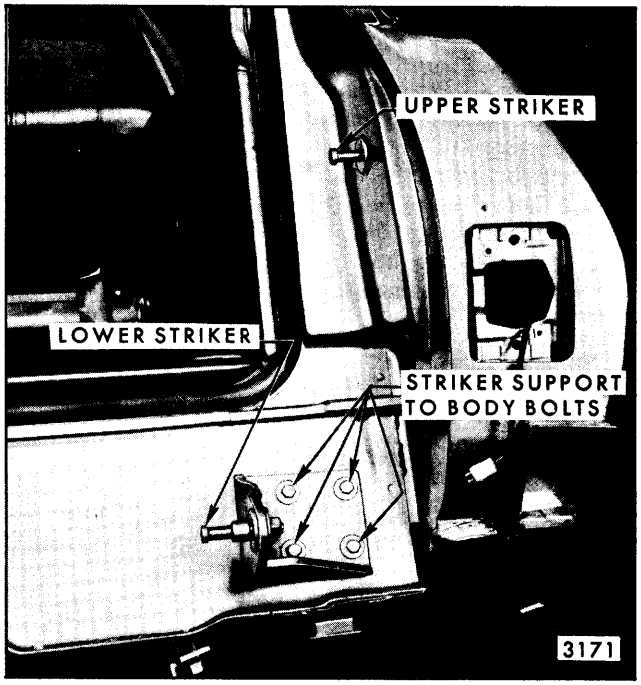


Fig. 9-31—Tail Gate Adjustments - "B" Body Shown
"A" Body Typical

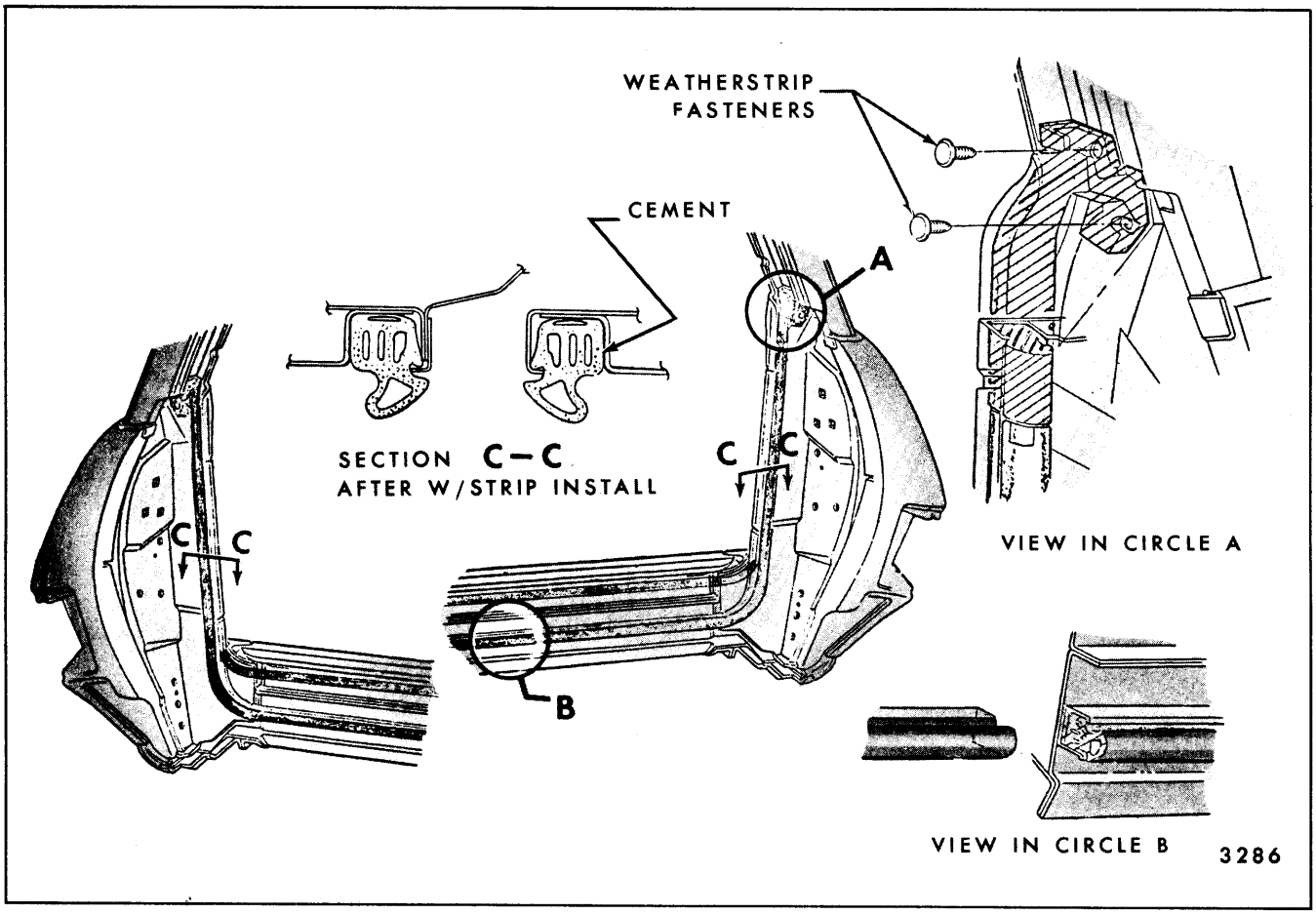


Fig. 9-32—Tail Gate Weatherstrip Installation

2. With a flat-bladed tool, carefully remove weatherstrip along entire tail gate opening.

3. To install original part, apply a bead of black weatherstrip cement into retainer along entire opening and reverse removal procedure. Replacement parts are serviced in two separate pieces, right and left. When installing a new weatherstrip, begin at belt line (on both side) and work to bottom center. Cut off excess weatherstrip and form a butt joint.

TAIL GATE WINDOW UPPER GLASS RUN CHANNEL

Removal and Installation

1. Open tail gate and disengage clip at bottom of run channel on side to be removed. With finger pressure only, squeeze run channel at one end and pull channel out of retainer.

2. Once run channel has been removed, the retainer attaching screws are exposed. (See Fig. 9-33). The retainer can be adjusted by loosening attaching screws, shifting retainer to desired position and tightening screws. If retainer is removed, seal retainer with medium bodied sealer prior to installation.

3. To install, reverse removal procedure.

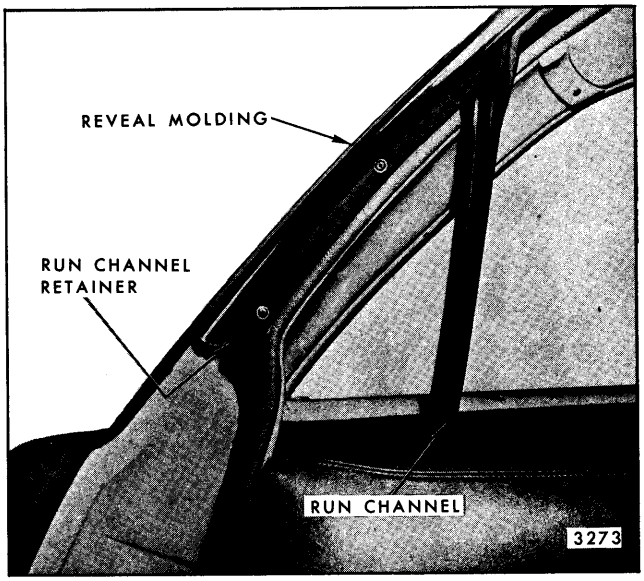


Fig. 9-33—Tail Gate Upper Glass Run Channel Retention

DUAL ACTING TAIL GATE SERVICING PROCEDURES CHART

CONDITION	CAUSE	SOLUTION
1. Gate does not open as a gate.	1. Glass blockout lever of upper right hand lock not actuated. **NOTE:** This condition prevents tail gate from operating either way	(A) Check to see if the glass blockout rod is installed and attached to the lever of the upper right hand lock. (B) Check if the glass is in the full down position.
	2. Lower right hand lock not locked.	(A) Check if the lower right hand lock is locked by visually inspecting the fork bolt of the lower lock. If the fork is visible and approximately flush with the rear of the lock housing, the lock is locked. If the fork bolt is considerably forward or not visible, the lock is unlocked. (B) Open the door and slam it to lock. (C) If the lock still is unlocked, the lower striker should be adjusted aft.
	3. Set screw of the remote control loose (located at center of tail gate).	**NOTE:** This condition can be determined by trying to unlock the upper locks. Only the upper left hand hinge lock will unlock.

DUAL ACTING TAIL GATE SERVICING PROCEDURES CHART (CONT'D)

CONDITION	CAUSE	SOLUTION
1. Gate does not open as a gate (cont'd.).	3. Set screw of the remote control loose (located at center of tail gate) (cont'd.).	(A) Removal of the tail gate inner panel cover, water deflector and right hand access hole cover, will be necessary. (B) After removing these parts, reach through the access hole and carefully, so as not to bend, pull the upper right horizontal lock rod towards the centerline of the body to unlock the upper right hand lock. (C) Open the tail gate and slam to lock all the locks. (D) Open as a door. (E) 1. Align two small holes in the remote control (located at the center of the gate). Place a cotter pin or other suitable tool through them. 2. Check the upper left hand hinge lock by visually inspecting forward open end of the lock to see if the lock lever is in the full outboard position, indicating the lock is locked. If the lever is next to the inner panel extension (inboard) pull or push the upper left hand corner of the tail gate forward to lock the lock. 3. Tighten the set screw (left hand thread). 4. Remove the cotter pin. 5. Close the door and open as a tail gate. (F) Make lock synchronization check.
	4. Horizontal lock rods and/or vertical rod from center handle to remote control not installed and/or attached.	(A) This condition is characterized by the failure of the upper right hand lock and/or left hand lock to unlock. Check for unattached or missing rods. If either of the upper horizontal lock rods is unattached or missing, attach or replace and then follow the upper lock synchronization procedure outlined in 1-3 (C) thru (F).

DUAL ACTING TAIL GATE SERVICING PROCEDURES CHART (CONT'D)

CONDITION	CAUSE	SOLUTION
2. Gate does not open as a door.	1. Glass blockout lever of upper right hand lock not activated, **NOTE:** This condition prevents tail gate from operating either way.	(A) Follow procedure outlined in 1-1 (A) and (B).
	2. Upper right hand striker too far rearward.	(A) This condition can prevent the upper left hand hinge lock from locking. Readjustment of the right hand upper striker forward is necessary to allow both upper locks to lock.
	3. Upper left hand hinge lock not locked.	(A) Check for unlocked upper left hand lock by pulling on corner of gate (gate will chuck if unlocked). (B) Open gate and slam hard to lock. (C) If the lock is still unlocked, the gate side upper left hinge lock will have to be adjusted forward.
	4. Cable from door handle to upper right hand lock detached.	(A) Check for loose cable by opening the gate and pulling on door handle. If the handle opens easily to approximately 90° to the inner panel surface and by pulling on the cable it readily pulls out, the cable is loose and must be attached to the stud of the upper right hand lock.
	5. Rod from upper right hand lock to lower right hand lock detached.	(A) Determine if rod is detached by visual inspection. If unattached: 1. Open tail gate as a gate. 2. Attach rod by moving the lever of the upper lock to the position of the rod. **NOTE:** DO NOT PULL UP ON THE LOCK ROD AS THIS WILL UNLOCK THE LOWER LOCK. 3. Be sure the lower lock is fully locked by pulling it against the striker. 4. Tighten the set screw in the upper lock (right hand thread). 5. Make lock synchronization check.

DUAL ACTING TAIL GATE SERVICING PROCEDURES CHART (CONT'D)

CONDITION	CAUSE	SOLUTION
3. With door open and center handle is pulled, gate unlocks (upper left hand hinge lock).	1. Right hand lock set screw loose.	(A) Check by opening as a door. 1. Actuate lower lock by pushing upon its lever to see if the lever of the upper lock moves without the set screw moving. 2. If loose, follow procedure outlined above in 2-5 (A).
	2. Improper synchronization of upper locks.	(A) Synchronize locks by following procedure outlined in 1-3 (D) and (E).
	3. Bent upper horizontal lock rods (caused by using rods to unlock gate).	(A) Replace rod and re-synchronize locks by following procedure outlined in 1-3 (D) and (E).
4. With gate open and door handle is pulled, lower right handle lock unlocks.	1. Improper synchronization of upper locks (loose screw set).	(A) Synchronize locks by following procedure outlined in 1-3 (D) and (E).
	2. Bent vertical lock rod (caused by using rod to unlock door).	(A) Replace rod and re-synchronize locks by following procedure outlined in 2-5 (A).
	3. Improper synchronization of right hand locks (caused by pulling on lock rod).	(A) Open tail gate as a gate. 1. Support gate while loosening the set screw in the upper lock. 2. Synchronize locks by following procedure outlined in 2-5 (A).
5. Tail gate window will not raise.	1. Tail gate window safety switch inoperative.	1. Open tail gate as a gate. Remove inner cover panel and water deflector. 2. Insert bare end of a tape insulated welding rod through belt glass opening into blue wire connector on regulator motor. 3. Ground negative pole of 12V battery to tail gate. 4. Raise glass by connecting other end of welding rod to positive pole of battery. 5. Replace safety switch as specified on page 9-12.
	2. Window regulator motor inoperative.	1. Refer to "Tail Gate Window Electric Regulator Motor Assembly - Removal" on page 9-9.

LOCK SYNCHRONIZATION CHECK

1. Visually check the lower right hand lock to determine if it is locked by the following conditions.

   A. Locked - fork bolt is rear and up approximately flush with the rear of the lock housing.

   B. Partly locked fork bolt is considerably forward of the locked position and is approximately vertical.

   C. Unlocked fork bolt is in its full forward position and may not be visible from rear of body.

2. Visually check the upper left hand hinge lock by opening the gate as a door and checking to see if the hinge lock is locked by the following conditions.

   A. Locked - the forward most part of the detent lever will be in an outboard position against the lock frame (away from the tail gate inner panel side extension).

   B. Partly locked (due to improper synchronization) - the lever will be approximately centered between the outboard side of the lock frame and the tail gate inner panel side extension.

   C. Unlocked - the lever will be against the tail gate inner panel side extension.

3. Functionally check the locking system by -

   A. Open the gate as a door, support it in case of a malfunction, try to activate the upper left hand hinge lock by pulling the center handle. If the hinge unlocks, check under "door open and center handle is pulled, gate unlocks." If it remains locked, proceed with step B.

   B. Close the door and reopen as a gate, support it in case of a malfunction, try to activate the lower right hand lock by pulling the right hand door handle. If the lower lock unlocks, check under "gate open and door handle is pulled, lower right hand lock unlocks." If it remains locked, the synchronization check is complete.

SINGLE ACTING TAIL GATES

All single acting tail gates incorporate either a manually or electrically operated window that can be lowered into the gate or raised into the back body opening. The manual window is operated by a regulator control handle located in the tail gate outer panel. The power window can be operated by any one of three control switches; one on the instrument panel, one at lock cylinder on tail gate outer panel (key operated) and one on the wheelhouse cover panel (optional-down only). All styles using a power tail gate window are equipped with an electrical switch that prevents movement of the window with gate in any position other than fully closed.

The tail gate is unlocked by means of a remote control handle that should not be actuated with glass in any position other than fully lowered into tail gate. All gates are counter-balanced by a torque rod that assists in reducing the effort required to open or close the tail gate.

The pick-up delivery style tail gate employs locks, striker, hinges and support cables similar to "A" body station wagon styles.

TAIL GATE INNER PANEL COVER

All single acting tail gates use a "hang-on" inner panel cover which attaches over the top of inner panel and is secured at sides and bottom by a series of screws. On pick-up delivery styles, the inner panel cover is attached at the recessed portion of the tail gate inner panel and is also secured by a series of screws.

On all single acting gates, the inner panel cover can be readily removed with gate in the open position. In cases where the gate cannot be opened, as would occur if a power operated window motor failed with tail gate window in the up (closed) position, the cover attaching screws are still accessible on all station wagons except those styles equipped with a rear floor-to-tail gate filler panel. On styles so equipped, the following procedure should be performed:

Fabricate a special "pry tool", as depicted in Fig. 9-34.

Service Procedure

1. Working from inside car, remove spare tire cover panel, tail gate lock handle and rubber grommet. Remove all exposed tail gate inner cover panel attaching screws; all screws should be removed except the lower row of screws which are inaccessible behind the rear floor-to-tail gate filler panel.

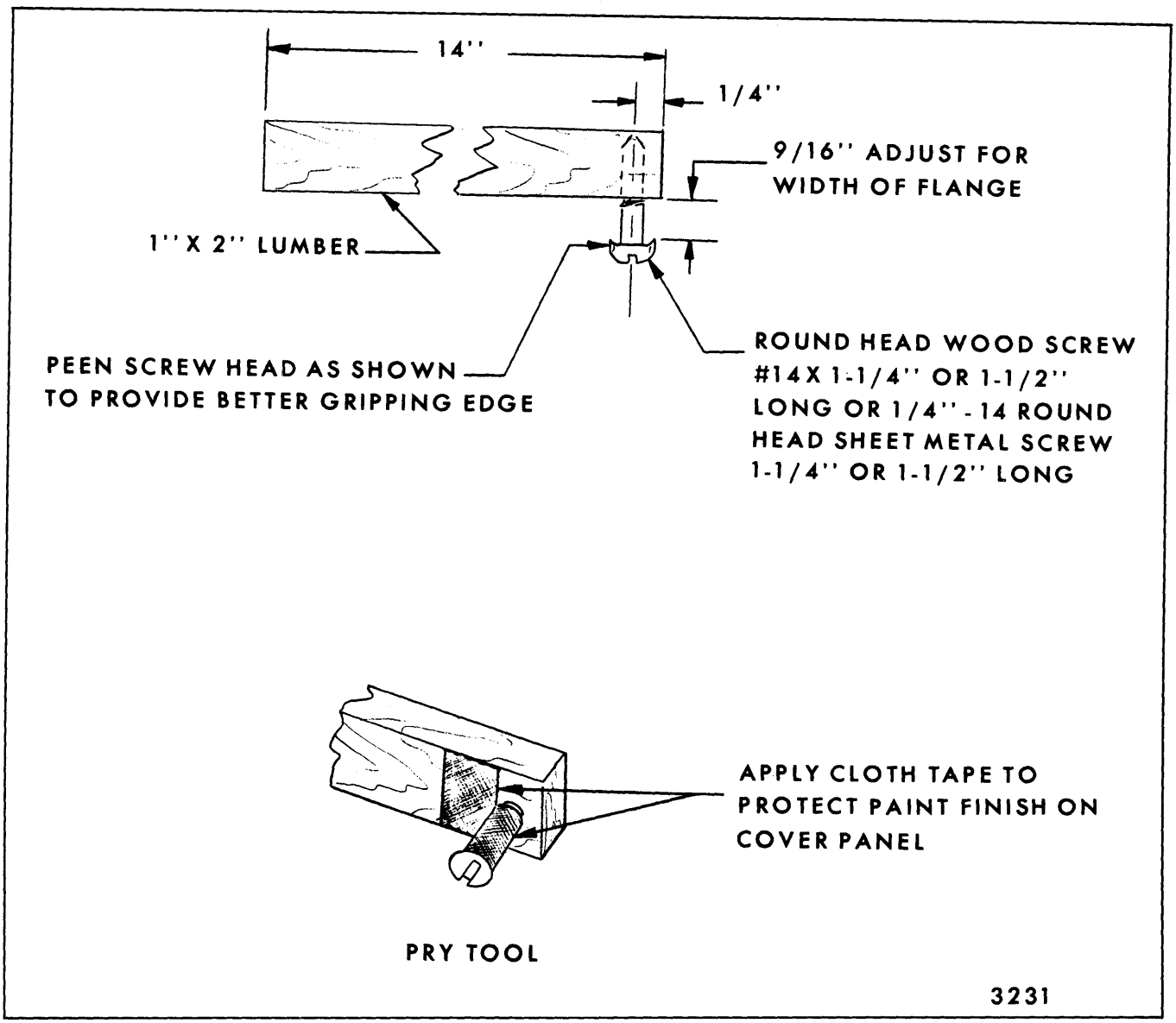


Fig. 9-34—Pry Tool Fabrication

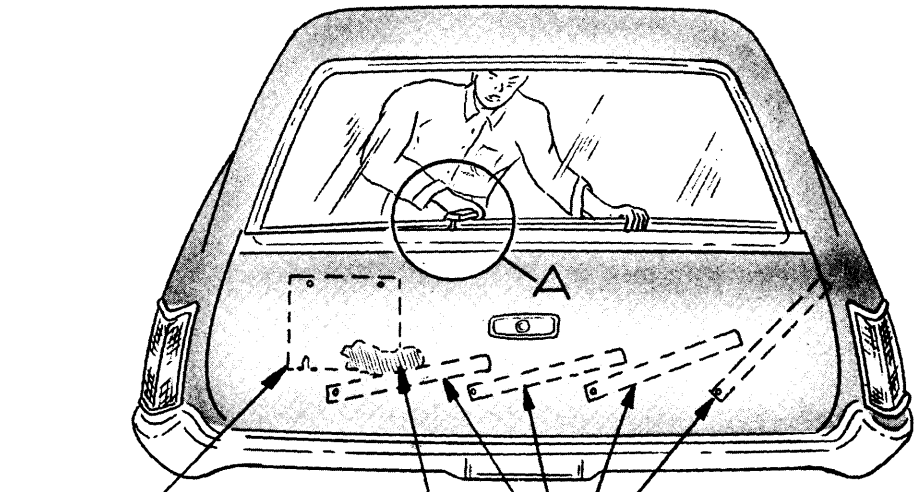
IMPORTANT: On bodies equipped with carpeting and tail gate skid strips, carefully pivot skid strips downward towards right (passenger) side of car, as indicated by dotted lines in Figure 9-35. Do not overlap skid strips.

2. On left side of body remove the rear quarter window lower, front and rear garnish moldings. Remove the rear quarter front upper trim panel attaching screws and loosen the rear quarter lower front trim foundation.

   NOTE: Prior to performing steps 3 through 9 make sure that tools are readily available in the body, as it will be difficult to exit from body. Tools required are: pry tool (See Fig. 9-34), #2 cross-recess screw driver, #2 cross recess miniature ratchet or off-set screw driver, #2 cross recess "shorty" screw driver, sharp knife, ball-peen hammer and 1/4" drive ratchet with 7/16" socket.

3. On left side of body remove all screws securing the rear quarter wheelhouse trim panel assembly (use a #2 cross-recess miniature ratchet or an off-set screw driver on the two rear-most screws). Rotate rear of wheelhouse trim panel assembly inward sufficiently to allow upper left portion of tail gate inner cover panel to be moved forward.

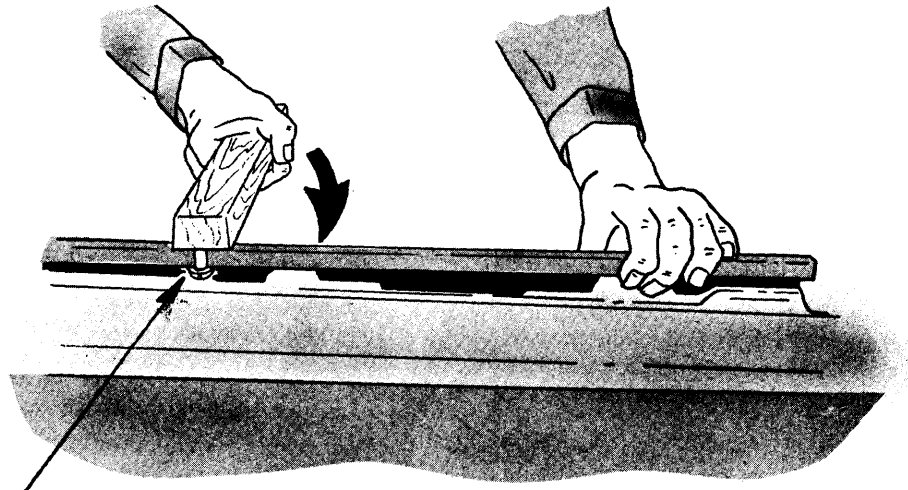
4. Using "pry tool", as shown in Figure 9-35, start at right side (passenger's side) of tail gate inner cover panel and carefully pry upper



ON CARS EQUIPPED WITH CARPETING, PRIOR TO DISENGAGING INNER COVER PANEL, PIVOT SKID STRIPS DOWNWARD, AS INDICATED. DO NOT OVERLAP SKID STRIPS.

LOCATION OF INNER PANEL ACCESS HOLE COVER

LOCATION OF WINDOW REGULATOR ELECTRIC MOTOR



CAREFULLY PRY FLANGE OVER PROJECTIONS ON INNER PANEL IMPORTANT: WORK TOOL GRADULLY AT SEVERAL LOCATIONS TO PREVENT OVER-BENDING AT ANY ONE POINT.

3230

Fig. 9-35—Inner Panel Cover Removal

flange of inner cover panel up and forward of projections on tail gate inner panel.

IMPORTANT: To prevent excessive bending of inner cover panel flange at any one point, work tool gradually at several locations where panel is being pried over inner panel projections.

5. After the upper flange of the inner cover panel is completely disengaged from the tail gate inner panel, carefully pull upper left (driver's side) portion of cover panel forward sufficiently to cut the inner panel water deflector across the top and down the sides of the inner panel left access hole cover.

6. Remove the tail gate inner panel access hole cover upper attaching screws; then pull access hole cover upward to disengage slotted holes in cover from under lower attaching screws. It may be necessary to tap sides of cover to loosen.

7. Working through access hole, remove three screws securing window regulator motor to regulator assembly, then, disengage motor from regulator.

8. With tail gate window regulator motor disengaged from window regulator assembly, the tail gate window can be manually lowered and the tail gate opened. If window is in the full "up" position, it may be necessary to have a helper on outside of tail gate to assist in starting the window down.

9. With the tail gate open, remove the remaining inner cover panel attaching screws and remove the cover panel from the tail gate.

10. The tail gate window regulator motor may now be removed from the tail gate and a new motor installed on the window regulator.

NOTE: Prior to tightening regulator motor attaching screws, check that motor gear teeth are meshing properly with regulator sector gear teeth by holding jamb switch at left lock and energizing motor momentarily by turning key in tail gate switch on and off. Then tighten motor attaching screws.

11. Prior to installing tail gate inner cover panel, seal cuts in water deflector with waterproof body tape. Place inner cover panel on a protected surface with return flange "up" and straighten return flange with a body spoon (protected with tape) or other suitable tool.

TAIL GATE INNER PANEL WATER DEFLECTOR

A waterproof paper deflector is sealed against the tail gate inner panel to deflector water toward the bottom of the gate and out the drain holes.

IMPORTANT: When work is performed on the tail gate that requires any detachment of the water deflector, it must be properly resealed to the inner panel.

Removal

1. Remove tail gate inner panel cover.

2. Using a flat-bladed tool, carefully break cement bond securing water deflector to inner panel. Make sure string, located within sealer, is against water deflector and carefully slide tool between sealer and inner panel along both sides and top to disengage deflector from inner panel. If the entire deflector need not be removed, detach only that portion necessary.

Installation

1. Inspect deflector and repair any damage noted with body waterproof tape applied to both sides.

2. If a new deflector is to be installed, use old deflector as a template.

3. If needed, apply a bead of body caulking compound (approximately 3/16" diameter) to tail gate inner panel (See Fig. 9-36). The inner panel cover attaching screw holes should also be sealed with body caulking compound.

4. Position water deflector to tail gate with polyethylene coated side (black) against inner panel. Firmly press sealed areas to obtain a good bond between deflector and inner panel.

TAIL GATE INNER PANEL ACCESS HOLE COVERS

Removal and Installation

1. Remove tail gate inner panel cover and water deflector.

2. Remove screws securing right and left access hole covers to tail gate inner panel and remove covers (See Fig. 9-37).

3. To install, reverse removal procedure.

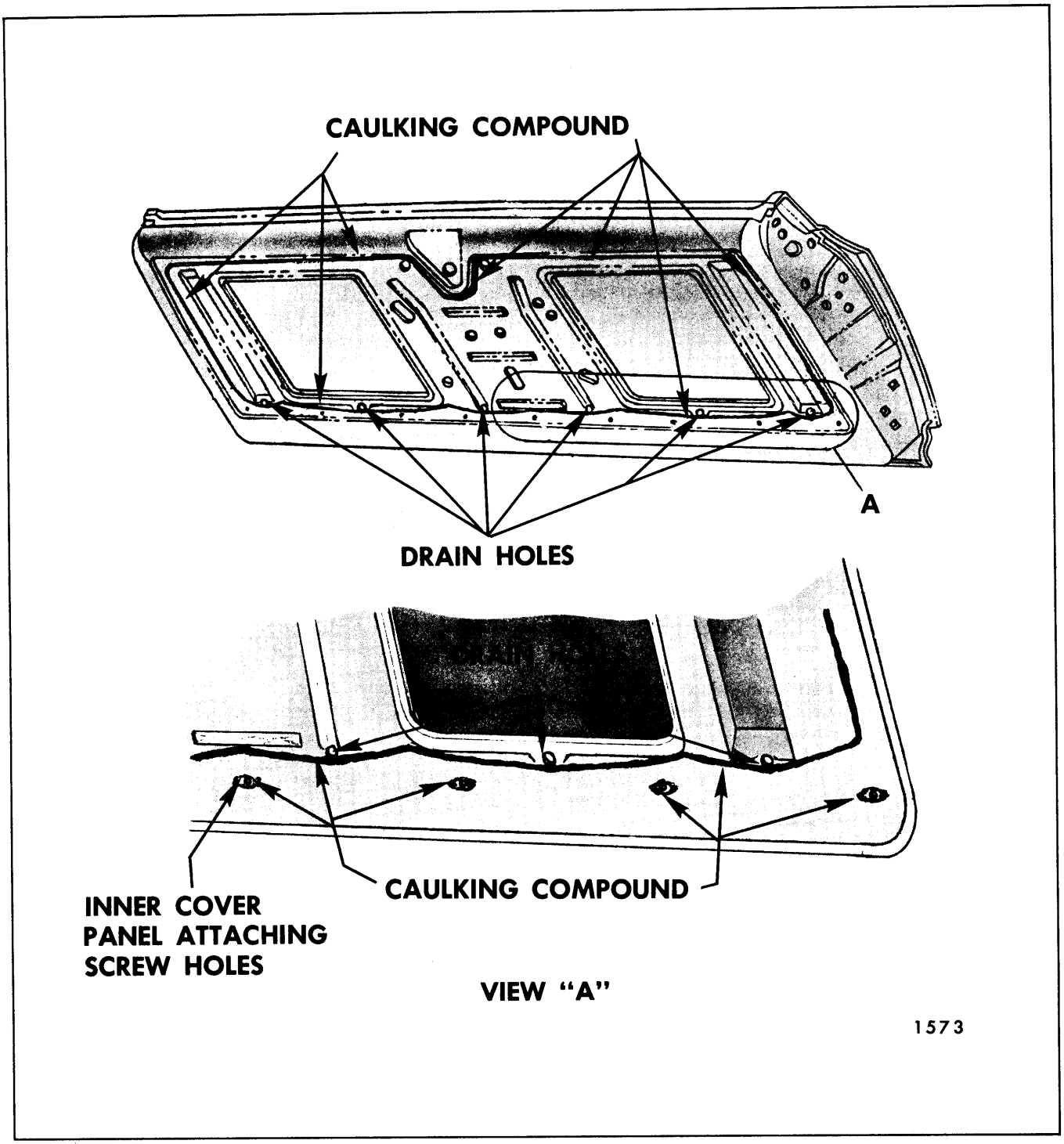


Fig. 9-36—Tail Gate Sealing

TAIL GATE HINGE ASSEMBLY

Removal and Installation

1. Open tail gate to vertical position and remove torque rod retainer attaching screws at the lock pillar. Provide support on side from which hinge is to be removed.
2. Remove tail gate hinge attaching bolts from both gate and body (Figs. 9-38 and 9-39).
3. To install, reverse removal procedure. Prior to installation, apply a coat of heavy-bodied sealer to surface of hinge that contacts body.
4. Check alignment of tail gate in opening and adjust as required.

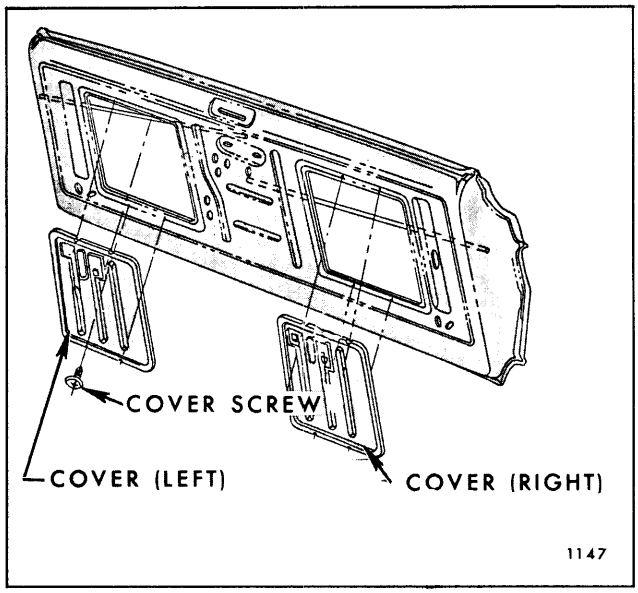


Fig. 9-37—Tail Gate Inner Panel Access Hole Cover

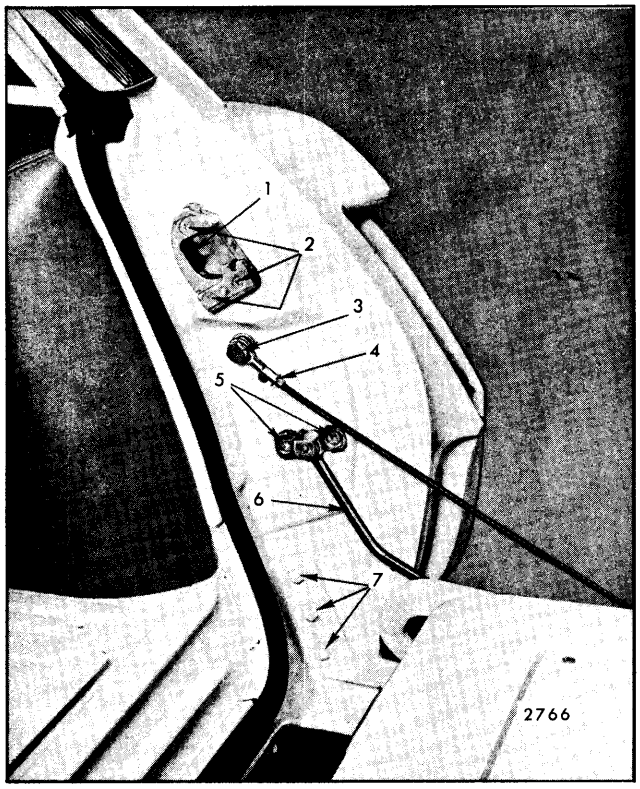


Fig. 9-38—Tail Gate Torque Rod, Hinge and Support Attachments

1. Lock Striker Bumper
2. Lock Striker Attaching Screws
3. Tail Gate Support Attaching Bolt
4. Support Return Spring Clip
5. Torque Rod Retainer Attaching Screws
6. Tail Gate Torque Rod
7. Tail Gate Hinge to Body Attaching Bolts

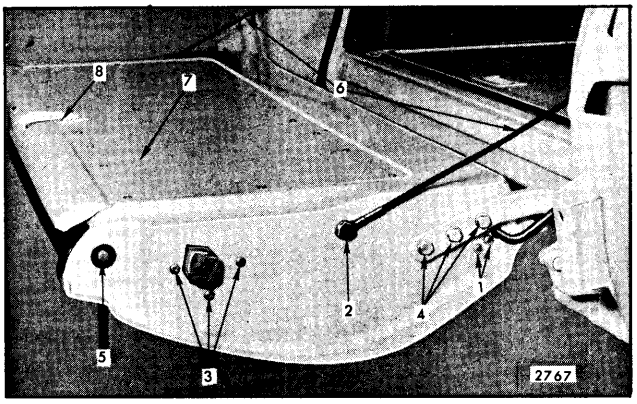


Fig. 9-39—Tail Gate Hardware - Right Side

1. Torque Rod Bearing Plate Screws
2. Support to Tail Gate Attaching Bolts
3. Tail Gate Lock Screws
4. Hinge to Tail Gate Attaching Bolts
5. Glass Run Channel Upper Bolt
6. Tail Gate Support Cables
7. Tail Gate "Hang-On" Inner Panel
8. Tail Gate Inside Handle

TAIL GATE SUPPORT ASSEMBLIES

Removal and Installation

1. Support tail gate in open position. This is important so that torque rod, which is under tension, does not disengage.

2. Remove bolts securing support to tail gate and body lock pillar. Disengage support return spring (at body lock pillar or tail gate end) and remove support (Figs. 9-38 and 9-39).

3. To install, reverse removal procedure.

TAIL GATE ASSEMBLY

The basic hardware of all station wagon single acting tail gates is similar, regardless of style. Figure 9-40 illustrates all hardware components for gates equipped with both manually and electrically operated windows.

Removal and Installation

1. Open tail gate to an approximate vertical position to relieve torque rod tension. Remove torque rod retainer attaching screws and remove retainer.

   NOTE: Possible injury could occur if tension is not relieved from torque rod.

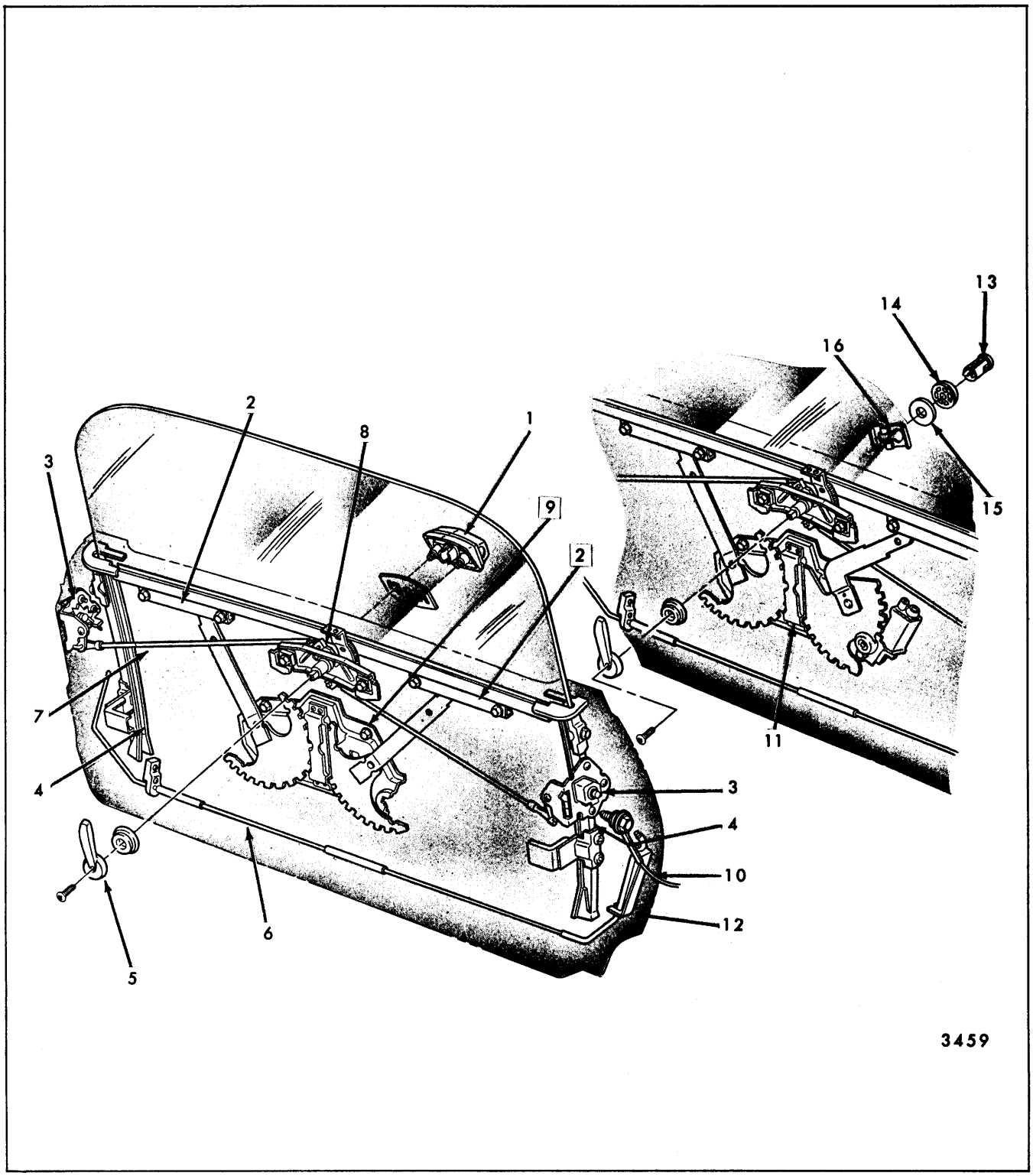


Fig. 9-40—Tail Gate Hardware - Single Acting

1. Outside Handle
2. Sash Channel Cams
3. Locks
4. Lower Glass Run Channels
5. Inside Handle
6. Torque Rod
7. Remote Control Connecting Rods
8. Remote Control
9. Regulator
10. Tail Gate Support Cable
11. Electric Regulator Assembly
12. Torque Rod Retaining Bracket
13. Key Switch
14. Escutcheon
15. Gasket
16. Retainer

2. On styles equipped with power operated tail gate window, proceed as follows:

   a. Remove inner panel cover and water deflector.

   b. Remove tail gate window as described under "Tail Gate Window Assembly, Removal and Installation".

   c. Disconnect wire harness at key switch, jamb switch and at motor. Remove harness from tail gate.

3. While properly supporting tail gate, remove right and left support cable attaching bolts. (See Figs. 9-38 and 9-39).

4. With the aid of a helper, remove right and left tail gate hinge to gate attaching bolts and remove tail gate from body.

5. To install, reverse removal procedure. Prior to installation, apply a coat of heavy bodied sealer to surface of hinges that contact tail gate.

Adjustments

Up or down and fore or aft adjustment is provided at hinge to gate attaching bolts. Side to side adjustment is available at hinge to body opening attaching bolts by using shims.

NOTE: Following any adjustments of the tail gate, check engagement of locks to strikers as described in "Tail Gate Lock Striker Adjustment".

TAIL GATE WINDOW ASSEMBLY—MANUAL OR ELECTRIC

Removal and Installation

1. Remove tail gate inner panel cover, water deflector and both access hole covers.

2. Operate tail gate window to a point that sash channel cam attaching bolts are accessible as depicted in Fig. 9-41.

   NOTE: On styles equipped with power operating tail gate windows, engage jamb switch (Fig. 9-42) and operate window to position desired. Engaging the tail gate jamb switch makes it possible to operate the window (by key switch) with the gate in the open position.

3. Remove right and left cam attaching bolts. Slide cams to disengage from regulator lift arm rollers and remove cams from tail gate.

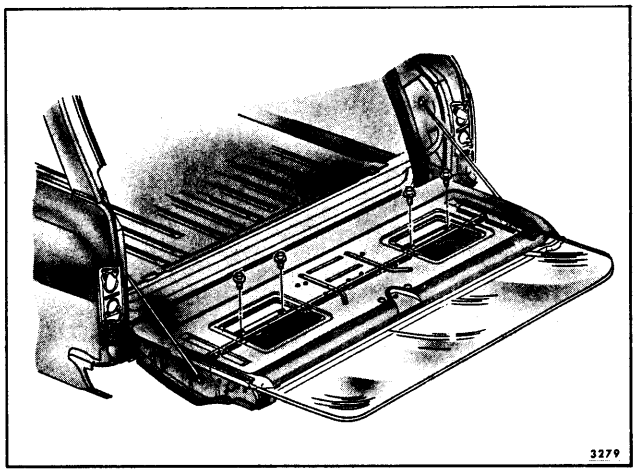


Fig. 9-41—Tail Gate Inner Cam Attachments

4. Pull window straight out to remove from tail gate.

5. To install, reverse removal procedure.

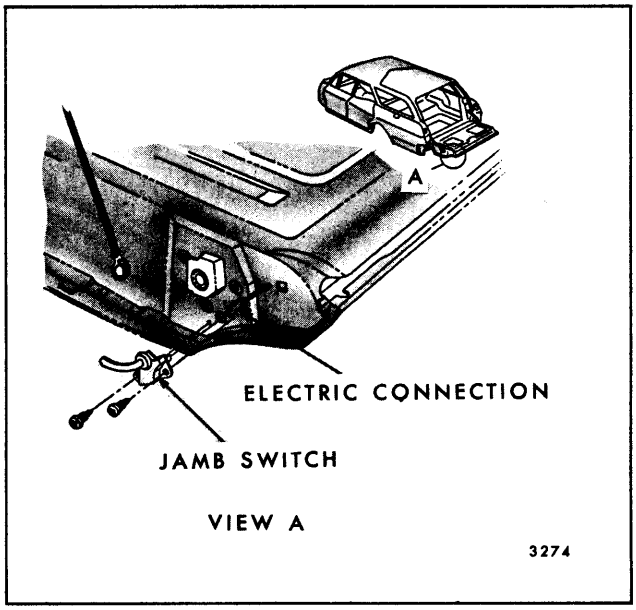


Fig. 9-42—Tail Gate Jamb Switch

Adjustments

The tail gate glass run channels can be adjusted to relieve a binding glass. To correct a rotated glass condition, loosen window regulator attaching screws and rotate regulator clockwise or counter clockwise as required.

TAIL GATE WINDOW REGULATOR—Manual and Electric

Removal and Installation

1. Remove tail gate window assembly.
2. On styles equipped with a power operated tail gate window assembly, disconnect electric harness at regulator motor connector.
3. Remove bolts securing regulator to support and remove regulator, with motor attached, from tail gate.
4. To install, reverse removal procedure.

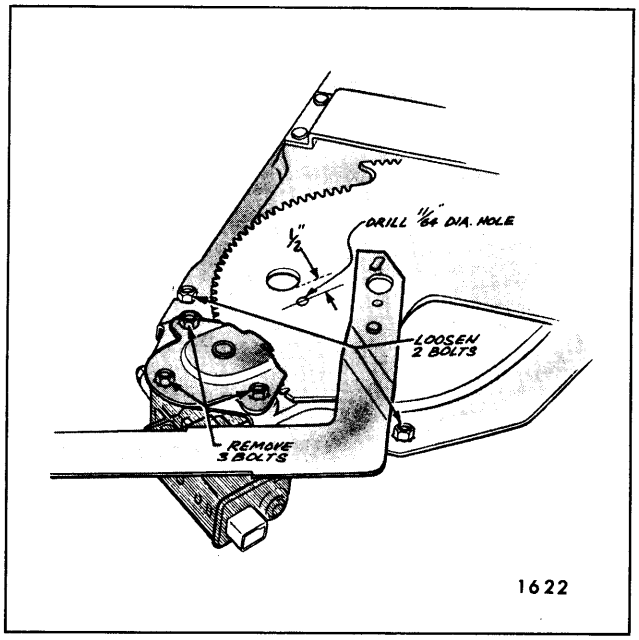


Fig. 9-43—Tail Gate Regulator Motor Assembly

TAIL GATE WINDOW ELECTRIC REGULATOR MOTOR ASSEMBLY

Removal

1. Open tail gate and remove tail gate inner cover panel.
2. Detach inner panel water deflector and remove inner panel right access hole cover.

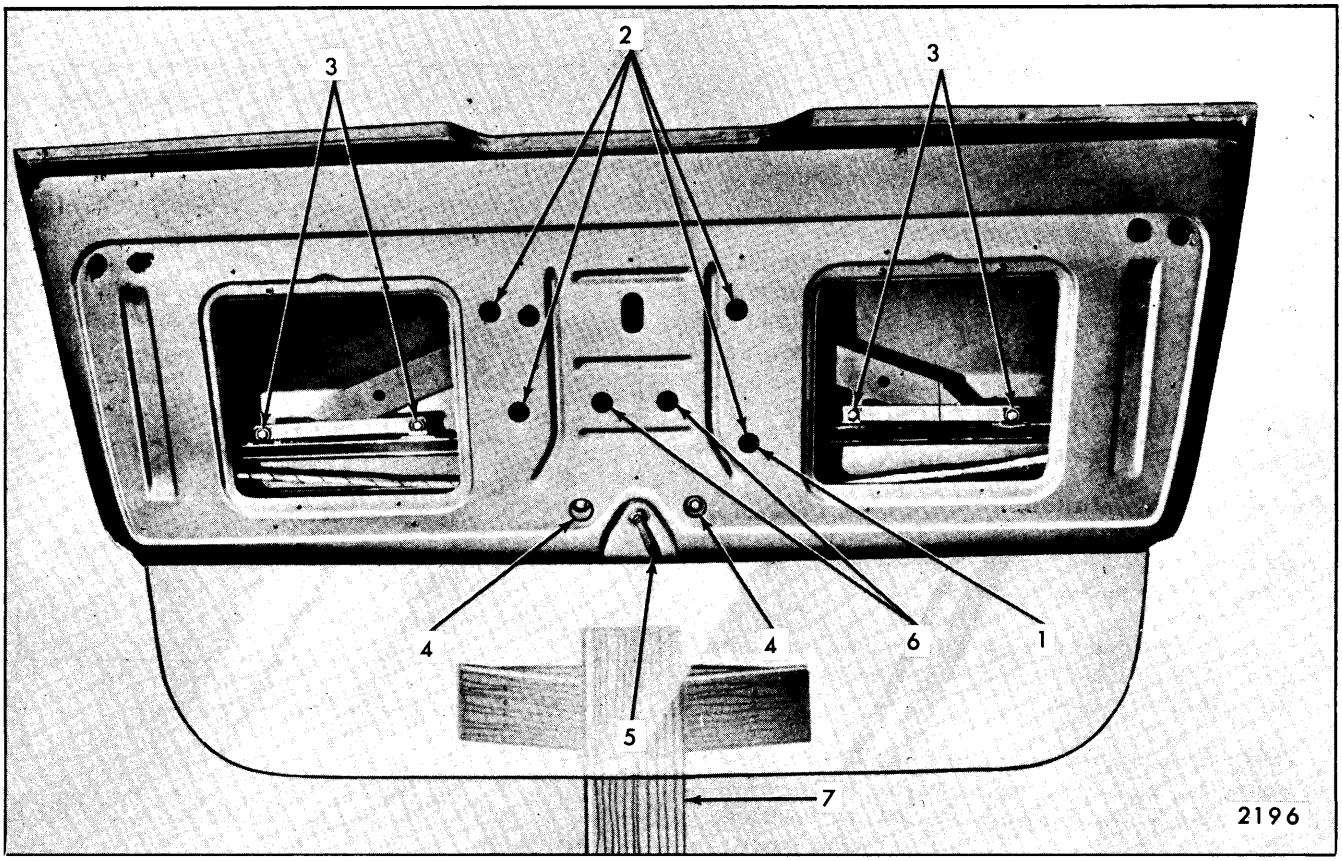


Fig. 9-44—Tail Gate Window Hardware

1. Access Hole for Regulator Adjusting Screw
2. Access Holes for Window Regulator Attaching Screws
3. Window Lower Sash Channel Cams Attaching Screws
4. Lock Remote Control Attaching Screws
5. Lock Remote Control Handle Attaching Screw
6. Access Holes for Outside Handle
7. Glass Support

3. Disconnect wire harness connector from motor.

   IMPORTANT: The following operation must be performed if the window is removed or disengaged from the regulator lift arms. The regulator lift arms, which are under tension from the counter-balance spring, can cause serious injury if the motor is removed without locking the sector gears in position.

4. Drill a 1/8" hole through regulator sector and back plate (See Fig. 9-43). DO NOT drill hole closer than 1/2" to edge of sector gear or back plate. Install a pan head sheet metal tapping screw (#10-12 x 5/8) in drilled hole to lock sector gears in position.

5. Loosen regulator right upper attaching screw. Remove the three regulator motor attaching screws and remove motor assembly from regulator and tail gate.

Installation

1. Lubricate the motor drive gear and regulator sector teeth with Lubriplate or its equivalent.

2. With tail gate in an open position, install regulator motor to regulator. Make sure the motor pinion gear teeth mesh properly with the sector gear teeth before installing the three motor attaching screws.

3. Tighten regulator attaching screws and remove screw which locks sector gears into a fixed position.

4. Connect wire harness to motor and cycle tail gate window prior to installation of inner panel access hole cover, water deflector and cover panel.

TAIL GATE WINDOW REGULATOR OUTSIDE HANDLE—Manual or Electric

Removal

1. Lower tail gate and remove inner panel cover, water deflector and one access hole cover.

2. On manual styles, position tail gate window so that outside handle attaching nuts are accessible through gate inner panel and window regulator access holes (Fig. 9-44). Remove attaching nuts.

3. On electric styles, remove tail gate window regulator. Disengage key switch retainer and disconnect wire harness from connector on escutcheon (Fig. 9-45).

4. To install, reverse removal procedure.

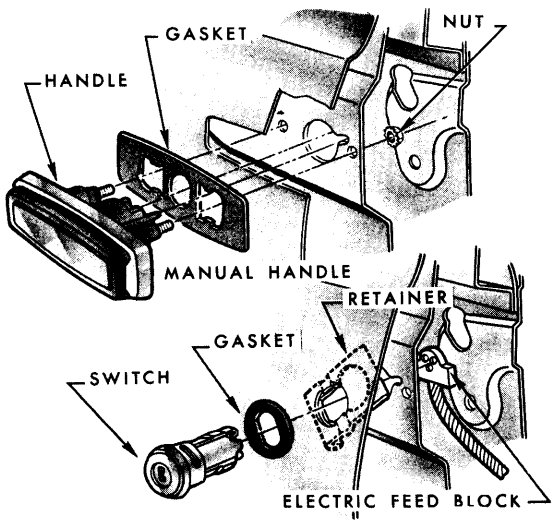


Fig. 9-45—Tail Gate Outside Handle Assemblies

TAIL GATE WINDOW LOWER GLASS RUN CHANNELS

Removal and Installation

1. Remove inner panel cover, water deflector and access hole cover on side from which run channel is to be removed.

2. Remove run channel upper and lower attaching bolts.

3. Pull run channel(s) down into tail gate and remove through inner panel access hole.

4. To install, reverse removal procedure.

   NOTE: It may be necessary to apply silicone to the corner sealing strip portion of the run channel(s) to permit easier removal and installation.

TAIL GATE JAMB SWITCH—Electric Option

The purpose of the electric jamb switch is to prevent operation of the tail gate glass while the gate is in the open position.

Removal and Installation

1. Remove jamb switch to tail gate attaching

screws, disconnect feed wire and remove switch (See Fig. 9-46).

2. To install, reverse removal procedure.

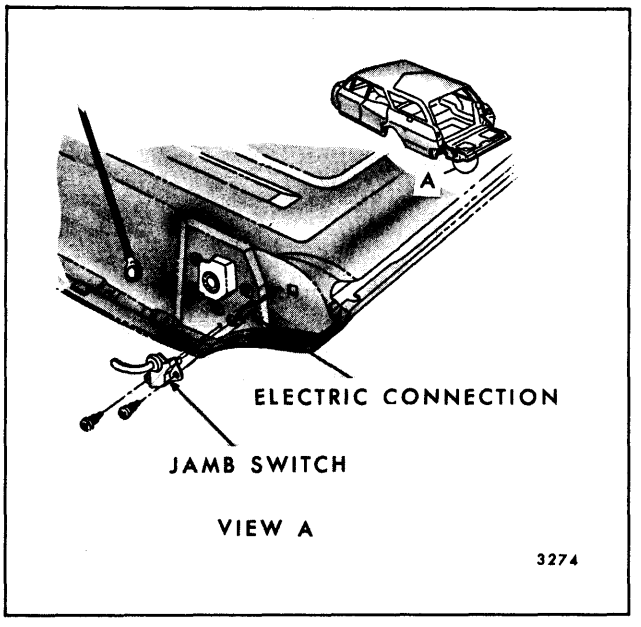


Fig. 9-46—Tail Gate Jamb Switch

TAIL GATE LOCK REMOTE CONTROL ASSEMBLY

Removal and Installation

1. Remove inner panel cover, water deflector and access hole covers.

2. Disconnect remote control to lock connecting rods at remote assembly by sliding clips out of engagement.

3. Remove remote control attaching bolts and remove assembly from tail gate.

4. To install, reverse removal procedure.

NOTE: To synchronize operation of right and left locks, adjust remote control by utilizing oversize attaching screw holes.

TAIL GATE LOCK ASSEMBLY— RIGHT OR LEFT SIDE

Removal and Installation

1. Remove inner panel cover, water deflector and access hole cover from side which lock is to be removed.

2. Raise glass assembly to full "up" position and remove tail gate window lower glass run channel on side from which lock is to be removed.

3. Remove screws securing lock to tail gate (Fig. 9-47).

4. Disengage clip which secures remote rod to lock and remove lock through access hole.

5. To install, reverse removal procedure.

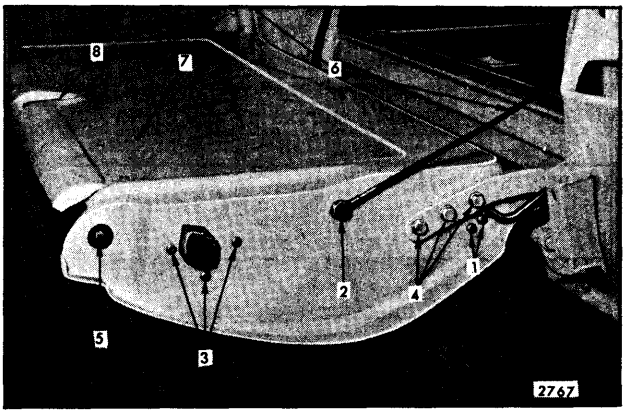


Fig. 9-47—Tail Gate Hardware - Right Side

1. Torque Rod Bearing Plate Screws
2. Support to Tail Gate Attaching Bolt
3. Tail Gate Lock Screws
4. Hinge to Tail Gate Attaching Bolts
5. Glass Run Channel Upper Bolt
6. Tail Gate Support Cables
7. Tail Gate "Hang-On" Inner Panel
8. Tail Gate Inside Handle

TAIL GATE LOCK STRIKER— RIGHT OR LEFT SIDE

Removal and Installation

1. Open tail gate and mark (pencil) position of striker on body pillar.

2. Remove lock striker attaching screws and remove striker and adjusting plates from body pillar.

3. To install, align striker and components within pencil marks and install attaching screws (See Fig. 9-48).

TAIL GATE LOCK STRIKER ADJUSTMENTS

1. To adjust the tail gate lock striker up or down or forward or rearward, loosen striker attaching screws, shift striker and adjusting plates to desired position and tighten attaching screws.

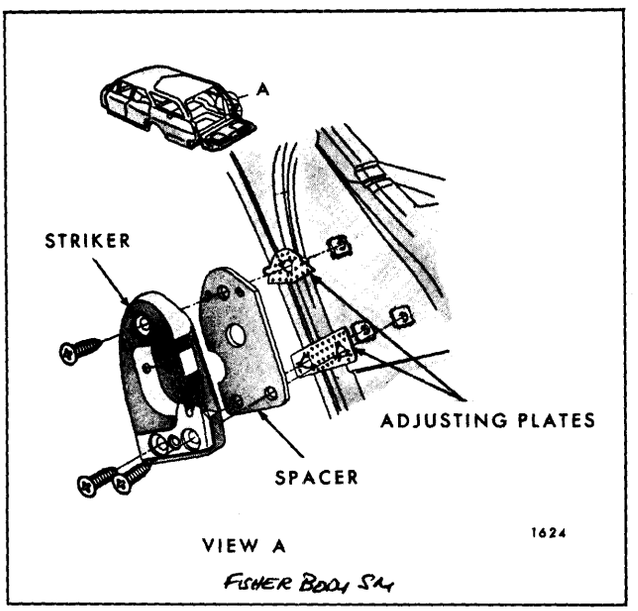


Fig. 9-48—Tail Gate Striker Assembly

2. DIMENSIONAL SPECIFICATIONS FOR USE OF DOOR LOCK STRIKER SERVICE SPACERS.

   a. Tail gate should be properly aligned before checking spacer requirements.

   b. To determine if tail gate lock striker service spacers are required, apply modeling clay or body caulking compound in the lock striker notch where the lock extension engages and close tail gate to form a measureable impression in the clay or caulking compound, as shown in Figure 9-49.

   When dimension "A" from inside face of striker teeth to center of lock extension is less than 3/16" install service spacers and proper length striker attaching screws as follows:

Dimension "A"	Spacers Required	Thickness	Striker Attaching Screws *
3/16" to 1/8"	1	1/16"	Original Screw
1/8" to 1/16"	1	1/8"	Service Screw (1/8" Longer)
1/16" to 0	1 (1/8" Spacer) 1 (1/16" Spacer)	3/16" (Total)	Service Screw (1/4" Longer)
0 to 1/16"	2 (1/8" Spacer)	1/4" (Total)	Service Screw (1/4" Longer)

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

NOTE: Dimension "B" from center of lock extension to inside face of striker should never be less than 1/16".

Fig. 9-49—Tail Gate Lock Striker Caulking Check

TAIL GATE TORQUE ROD—Station Wagon Styles

Removal and Installation

1. Remove tail gate window assembly. With tail gate in an approximate vertical position, remove torque rod retainer (Fig. 9-50).
2. Remove torque rod bearing plate (Fig. 9-47).
3. Disengage torque rod from tail gate inner panel retainer (See Fig. 9-51).
4. Remove torque rod silencer (rubber) from torque rod, and work torque rod out through glass loading hole.
5. To install, reverse removal procedure.

TAIL GATE WINDOW INNER AND OUTER STRIP ASSEMBLIES

Removal and Installation

Both strip assemblies are retained by clips in either the inner or outer panel of tail gate. The outer strip is additionally retained by two screws, one at each extreme end. To remove either strip, first remove screws and, using a flat tool, remove

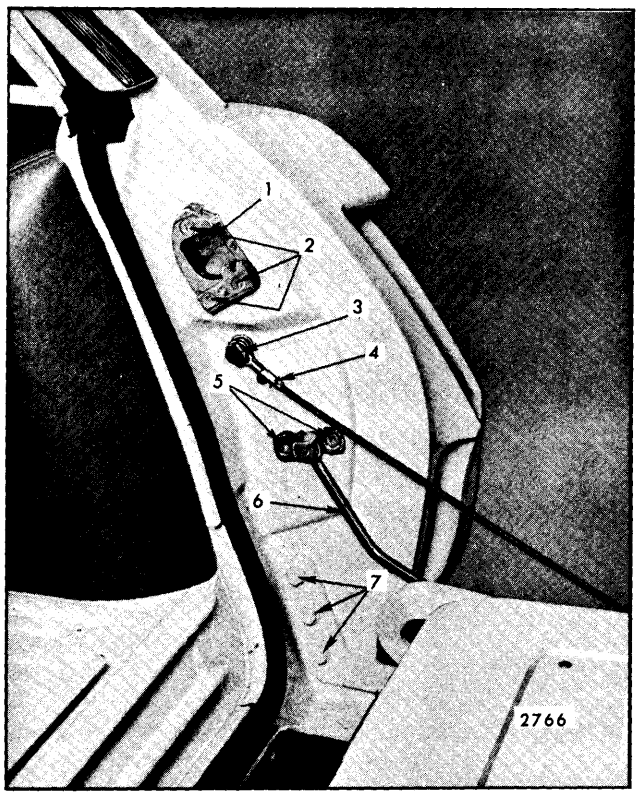


Fig. 9-50—Tail Gate Torque Rod, Hinge and Support Attachments

1. Lock Striker Bumper
2. Lock Striker Attaching Screws
3. Tail Gate Support Attaching Bolt
4. Support Return Spring Clip
5. Torque Rod Retainer Attaching Screws
6. Tail Gate Torque Rod
7. Tail Gate Hinge to Body Attaching Bolts

strip assemblies. To install, reverse removal procedure (See Fig. 9-52).

TAIL GATE BOTTOM DRAIN HOLE SEALING STRIPS

Removal and Installation

1. With a flat-bladed tool carefully pry out snap-on fastener at each end of strip and remove sealing strip from tail gate.

2. To install sealing strips, reverse removal procedure. To prevent strip from adhering to the tail gate panel and blocking the drain holes, apply a sparing amount of silicone rubber lubricant on the center section of the sealing strip (See Illustration under "Front and Rear Door Bottom Drain Hole Sealing Strips").

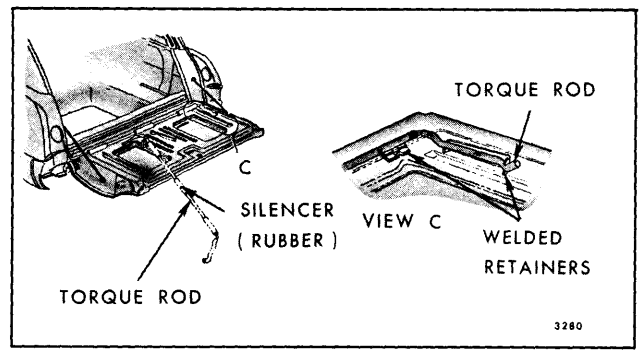


Fig. 9-51—Tail Gate Torque Rod Assembly

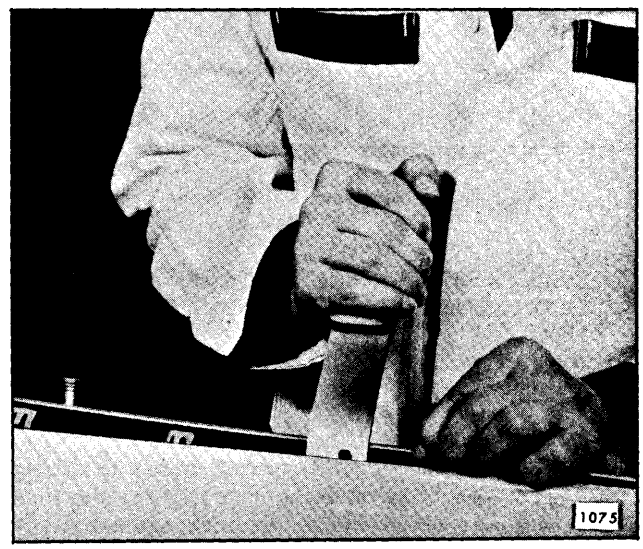


Fig. 9-52—Tail Gate Strip Assembly Removal

TAIL GATE OPENING WEATHERSTRIP

Removal and Installation

1. Open tail gate and remove fasteners and/or screws securing weatherstrip to right and left body pillars (at belt). (See Fig. 9-53).

2. With a flat bladed tool, carefully remove weatherstrip along entire tail gate opening.

3. To install, apply a bead of black weatherstrip cement into retainer along entire opening and reverse removal procedure.

TAIL GATE WINDOW UPPER GLASS RUN CHANNEL

Removal and Installation

1. Open tail gate. With finger pressure only, squeeze run channel at one end and pull channel out of retainer.

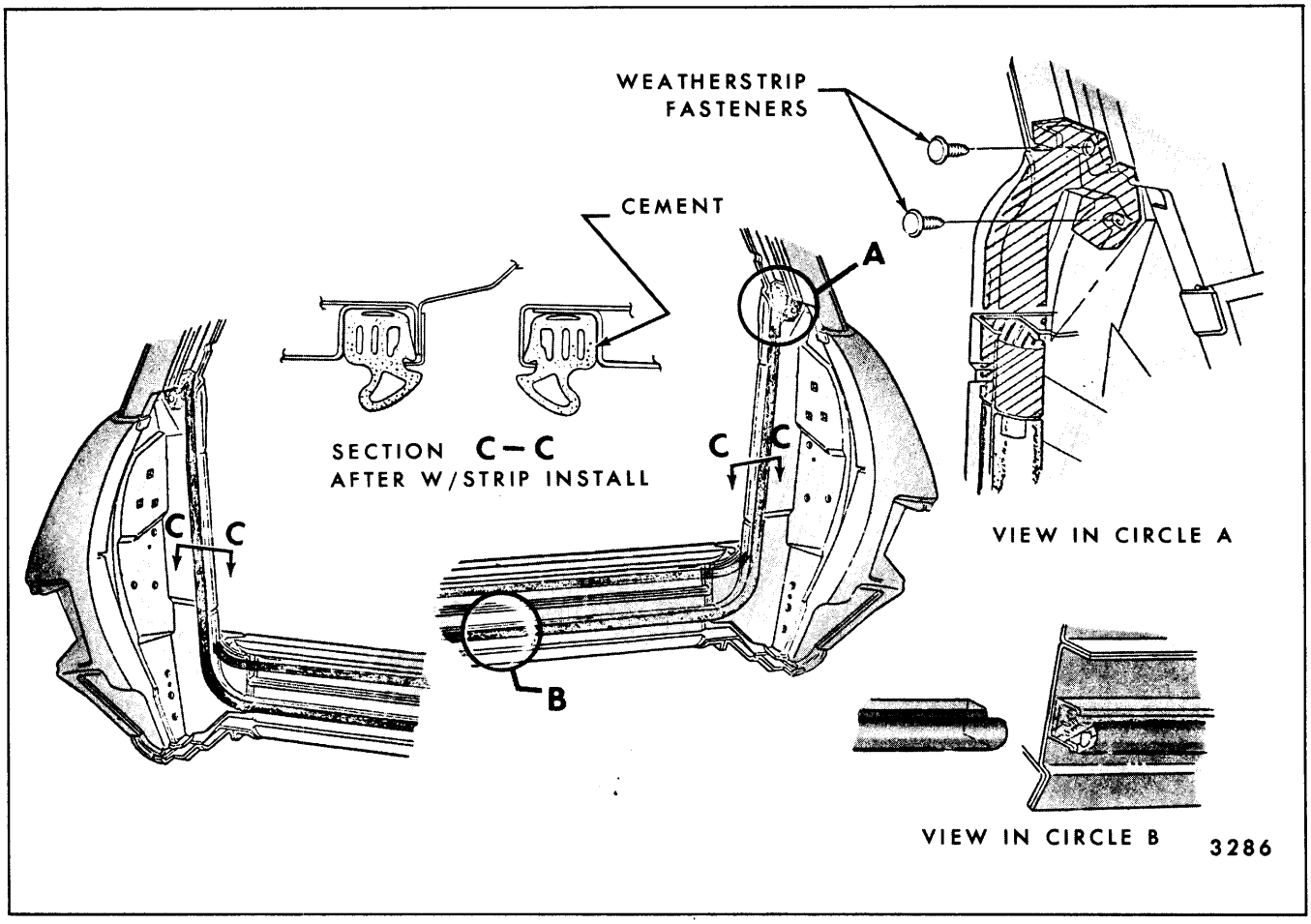


Fig. 9-53—Tail Gate Weatherstrip Installation

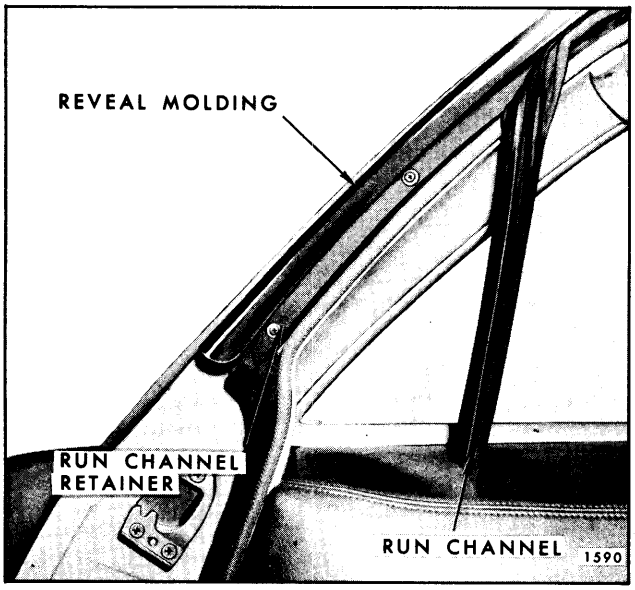


Fig. 9-54—Tail Gate Upper Glass Run Channel Retention

2. Once run channel has been removed, the retainer attaching screws are exposed. (See Fig. 9-54) The retainer can be adjusted by loosening attaching screws, shifting retainer to desired position and tightening screws. If retainer is removed, seal retainer with medium bodied sealer prior to installation.

3. To install, reverse removal procedure.