

## SECTION 9

# TAIL GATE

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## 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 REPLACE-

MENT OR REALIGNMENT OF THE TAIL GATE, OR COMPONENT HARDWARE, ALL LOCKS MUST BE CHECKED FOR SYNCHRONIZATION (REFER TO LOCK SYNCHRONIZATION CHECKS AND PROCEDURE).

## 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

## 9-2 TAIL GATE

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 an inside handle located at top right side of inner panel. The tail gate cannot be opened in either direction, however, until the 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

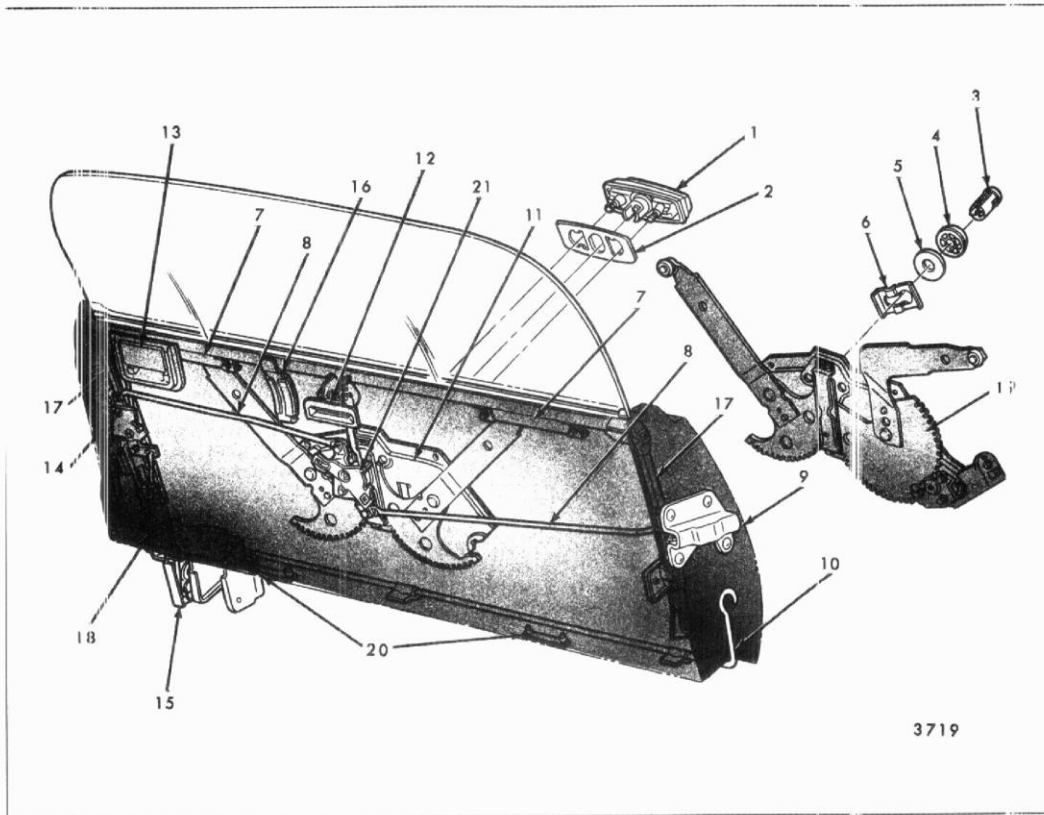


Fig. 9-1-Dual Acting Tail Gate Hardware (Typical)

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

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.

Figure 9-1 identifies the component parts of a typical dual-acting tail gate and their relationship.

### 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

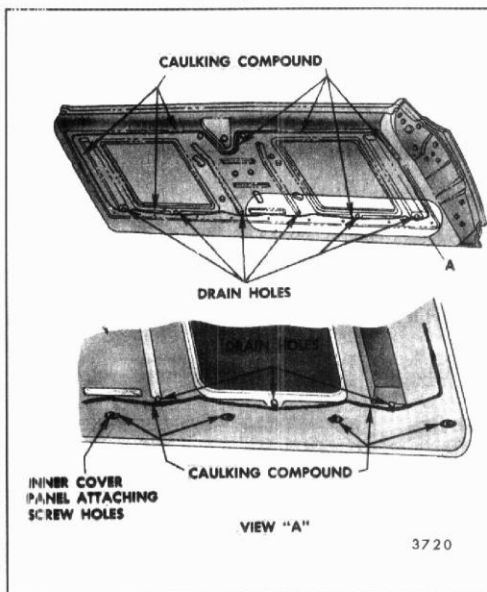


Fig. 9-2-Tail Gate Sealing

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.
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).

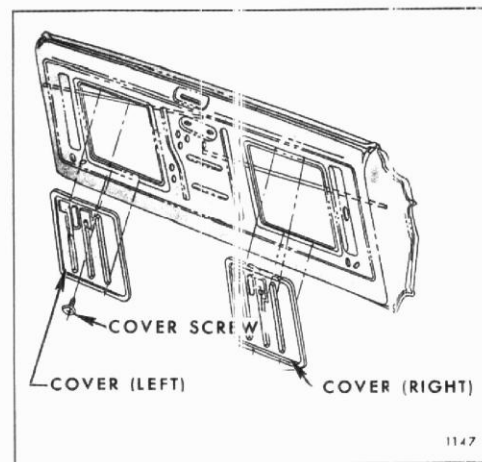


Fig. 9-3-Tail Gate Inner Panel Access Hole Cover

## 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").
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 OPENING WEATHERSTRIP

### Removal and Installation

1. Open tail gate and remove fasteners and/or screws securing upper corners of weatherstrip to right and left body pillars (Fig. 9-4).
2. Once run channel has been removed, the retainer attaching screws are exposed (See Fig. 9-5). The

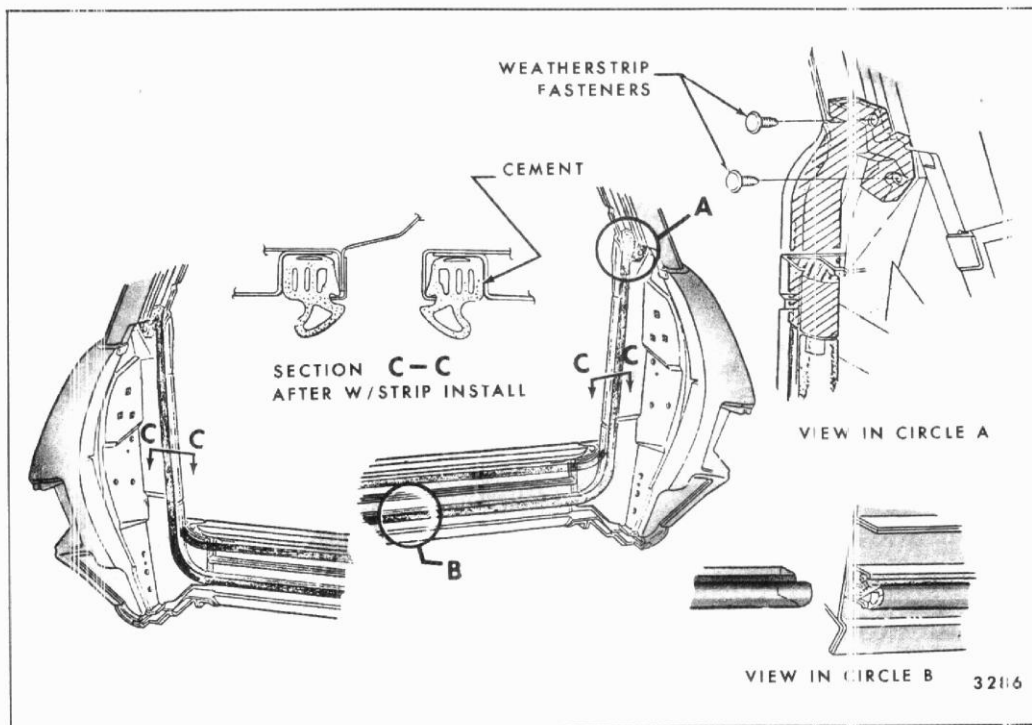


Fig. 9-4-Tail Gate Weatherstrip Installation



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.

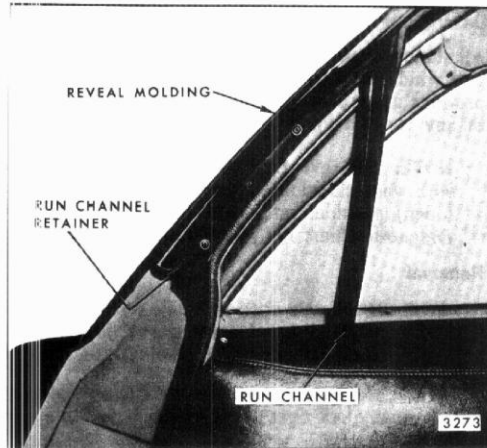


Fig. 9-5-Tail Gate Upper Glass Run Channel Retention

## TAIL GATE WINDOW LOWER GLASS RUN CHANNELS

### Removal and Installation

1. Remove tail gate window assembly as subsequently described.
2. Remove upper attaching bolt - accessible at lock pillar outer panel.
3. Remove lower attaching bolt - accessible through inner panel access hole (Fig. 9-6).
4. Turn run channel 90 degrees and pull run channel(s) down into tail gate and remove through glass opening.
5. To install, reverse removal procedure.

## TAIL GATE WINDOW REGULATOR- Manual and Electric

### Removal and Installation

1. Remove tail gate window assembly as subsequently described.

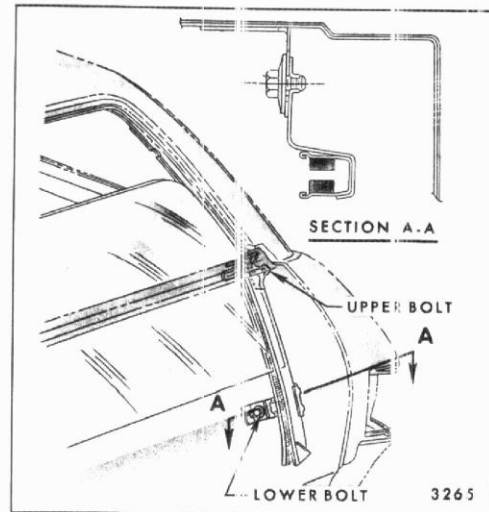


Fig. 9-6-Tail Gate Lower Glass Run Channel Attachment

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.

### Adjustment

The regulator attaching holes in the tail gate inner panel are oversized to permit movement of the regulator assembly to correct a "cocked" window (not parallel with the tail gate window upper run channel).

## TAIL GATE WINDOW ELECTRIC REGULATOR MOTOR ASSEMBLY

### Removal

1. Open tail gate and remove tail gate inner cover 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.

## 9-6 TAIL GATE

**CAUTION:** Step 4 **MUST** be performed if the window is removed or disengaged from the regulator lift arms. The regulator lift arms, are under tension from the counter-balance spring, and 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 gear and back plate (Fig. 9-7). Do NOT drill hole closer than 1/2" to edge of sector gear or back plate. Install a pan head sheet metal tapping screw (No. 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 minus 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.

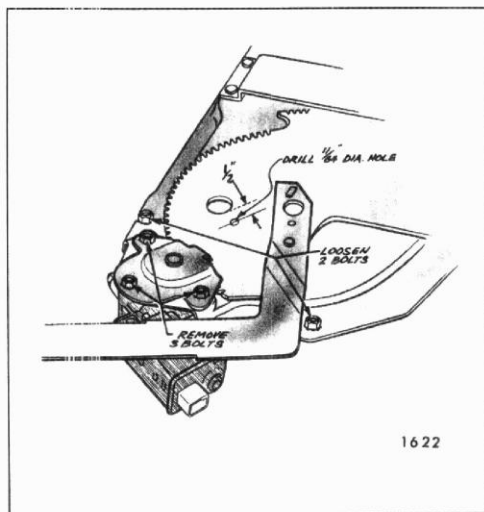


Fig. 9-7-Tail Gate Regulator Motor Assembly

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 CUT-OUT SWITCH

### Description

All station wagons equipped with power operated tail gate windows utilize an electrical cut-out switch which prevents upward movement of the glass with tail gate in any position other than fully closed.

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

### Removal

1. With the tail gate open in a gate position, remove tail gate inner panel cover, water deflector and right access hole cover as previously described.
2. With glass supported in a full-up position, manually lock right upper lock as shown in Figure 9-14.

**CAUTION:** With tail gate open and right upper lock engaged, 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 which could result in personal injury or damage to the tail gate assembly. As a safety precaution, prior to manually locking either right or left upper locks, apply body tape over inside door remote handle to render same inoperable (Fig. 9-8).

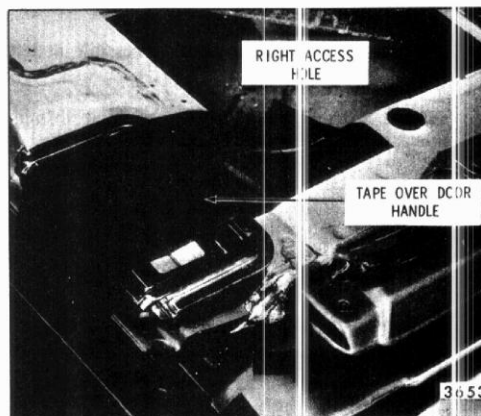


Fig. 9-8-Inside Handle (Door Operation) Tape

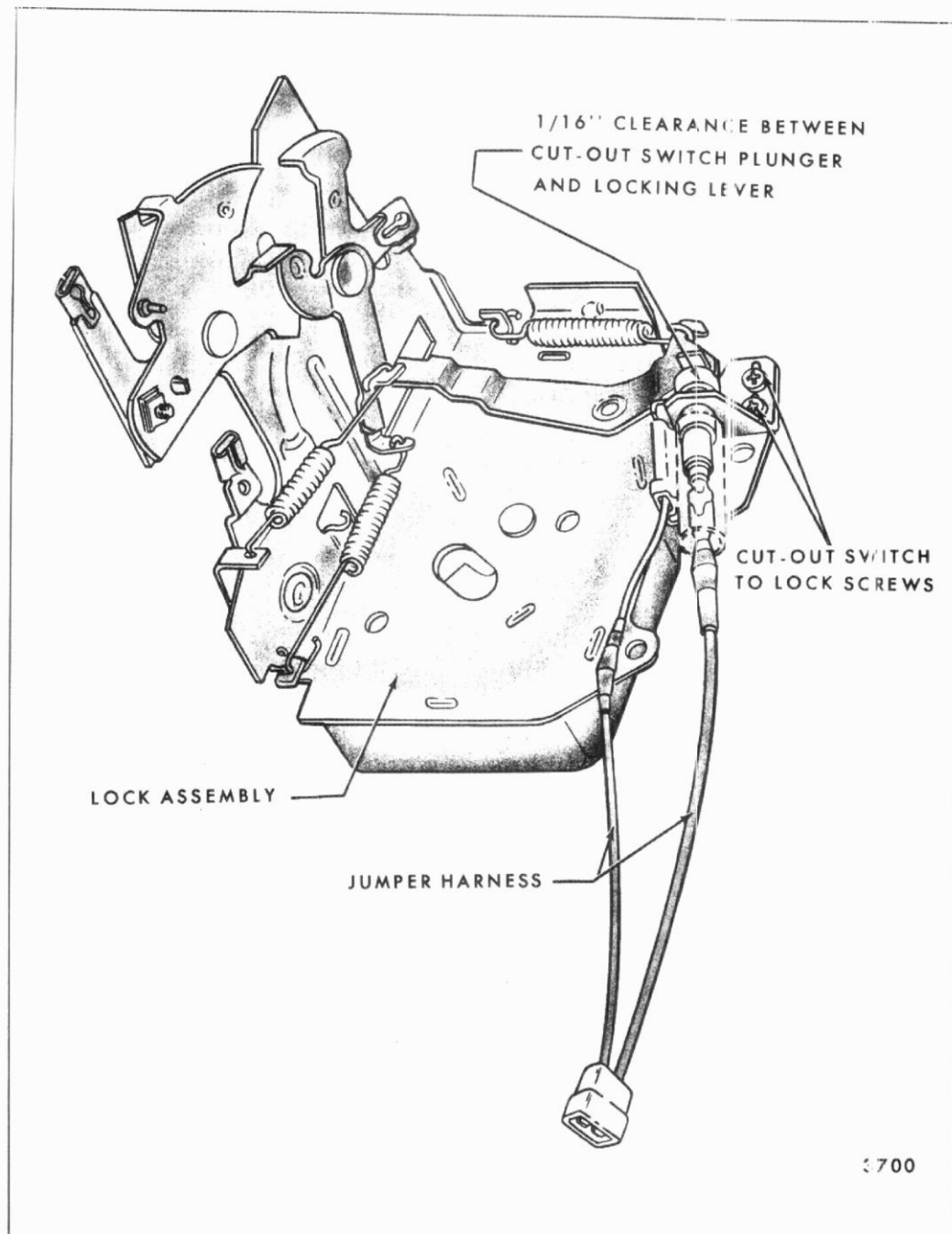


Fig. 9-9-Tail Gate Electrical Cut-Out Switch

## 9-8 TAIL GATE

3. Remove screws securing switch to right upper lock as shown in Figure 9-9. Disconnect electrical connector and remove switch through access hole.

### Installation

1. Connect electrical connector and loosely attach switch to lock assembly.
2. With right upper lock in a locked position, adjust switch to achieve a 1/16" clearance between the cut-out switch plunger and the locking lever (See Figure 9-9).

**CAUTION:** The adjustment specified in Step No. 2 is absolutely necessary to insure proper operation of switch.

3. Following proper adjustment of cut-out switch, secure attaching screws and cycle tail gate window

and gate to insure proper operation prior to installation of cover panel and water deflector.

## TAIL GATE WINDOW REGULATOR MANUAL OUTSIDE HANDLE

### Removal and Installation

1. Open tail gate in door position.
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. 9-10).
4. Remove nuts securing handle to tail gate and remove handle and sealing gasket.

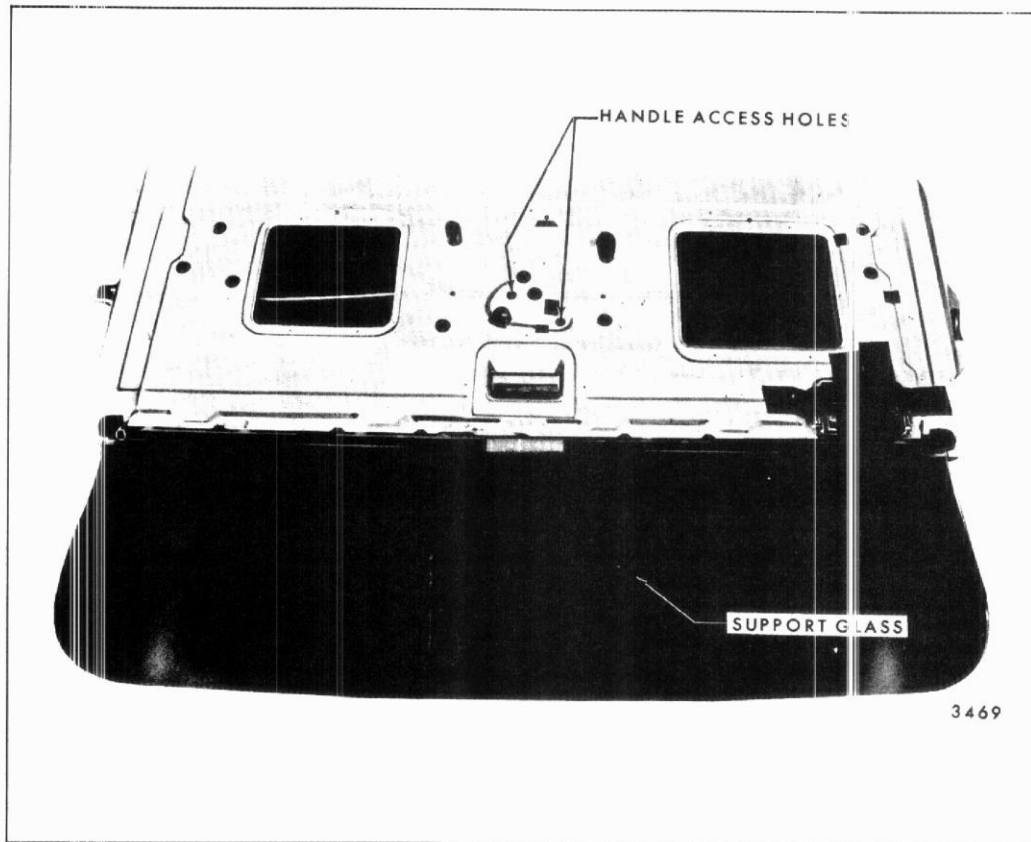


Fig. 9-10-Tail Gate Window Outside Handle Removal

5. To install, reverse removal procedure.

### 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 9-11 for "A" body styles and Figure 9-12 for "B" body styles).
5. To install, reverse removal procedure.

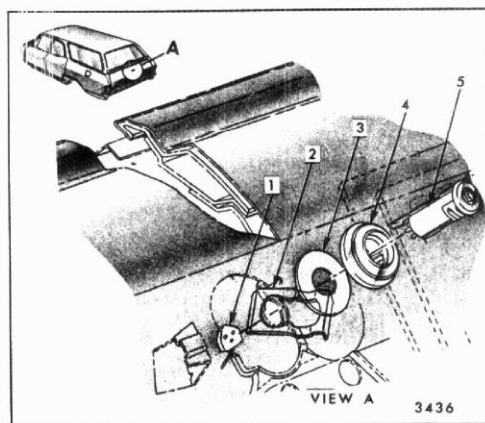


Fig. 9-11-Dual Gate Electric Key Switch and Cylinder Removal - "A" Body

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

### TAIL GATE WINDOW ASSEMBLY- MANUAL OR ELECTRIC

The tail gate window assembly consists of a solid tempered safety plate window and a pressed-on lower sash channel which includes bolt-on lower sash channel cams at the right and left side. With this design, the tail gate glass and sash channel are removed from the gate as a unit and replacement glasses installed as a bench operation.

#### Removal and Installation

1. Open tail gate to gate position.
2. Remove tail gate inner panel cover, water deflector and both access hole covers as previously described.
3. Operate tail gate window to a point that sash channel cam attaching bolts are accessible through inner panel (Fig. 9-13).

**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, with the gate in an open position, it is

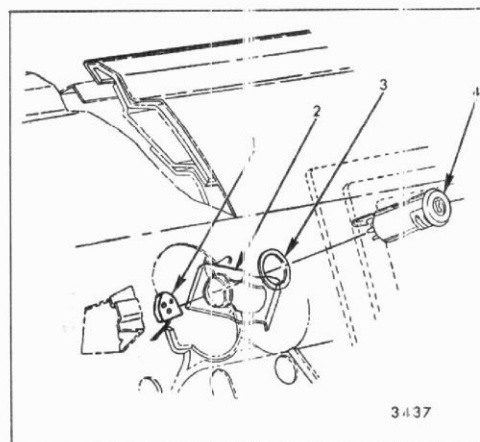


Fig. 9-12-Dual Gate Electric Key Switch and Cylinder Removal

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

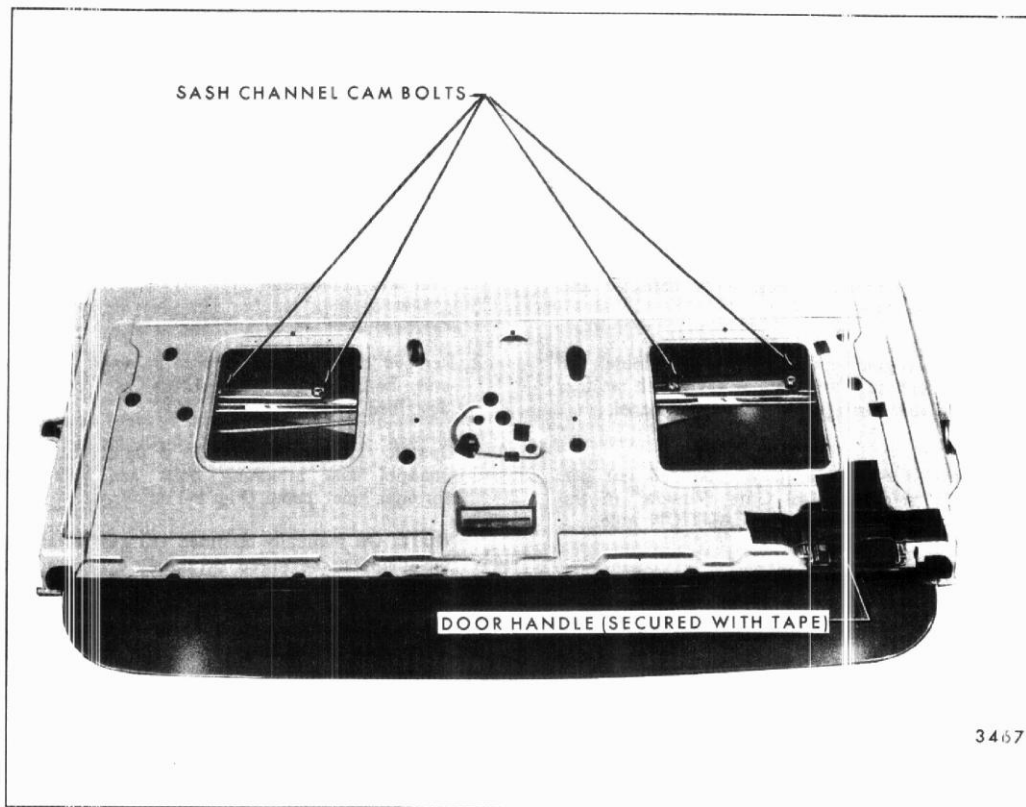


Fig. 9-13-Dual Acting Tail Gate Window Removal

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 (Fig. 9-14).
- B. The LEFT upper lock is engaged by depressing (with a screwdriver, or other suitable tool) the locking lever to full-engagement (Fig. 9-14).

**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. 9-8).

4. Remove right and left cam attaching bolts (Fig. 9-13). 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.
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.

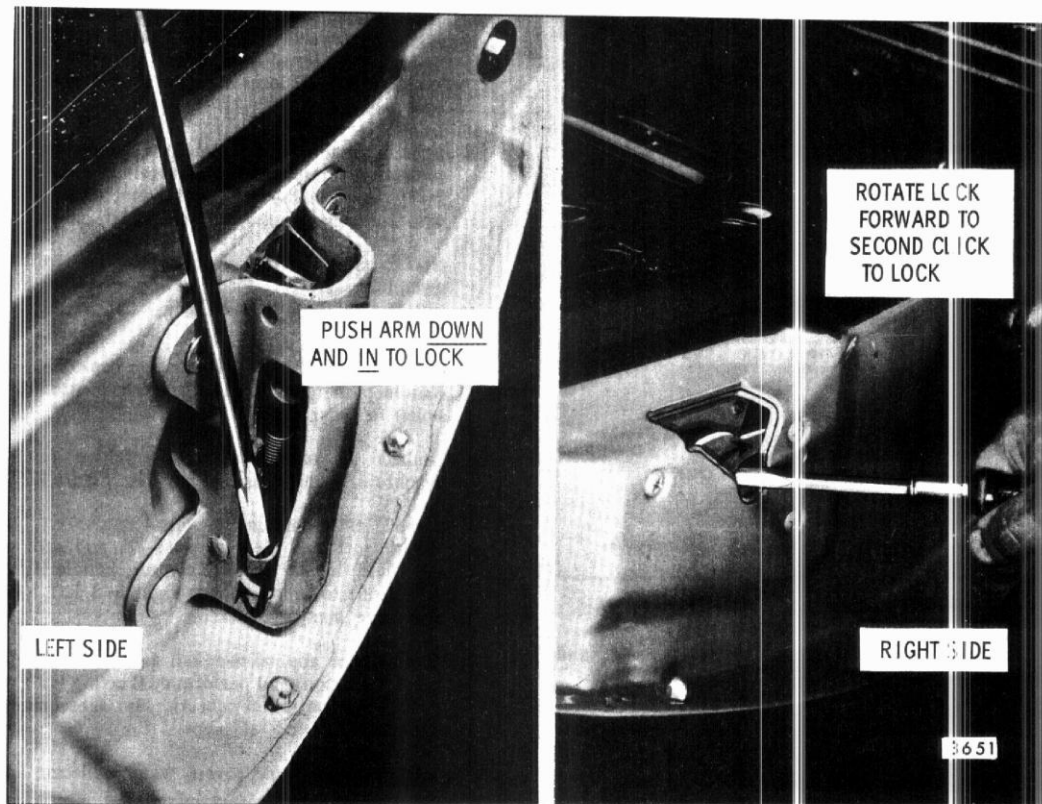


Fig. 9-14-Dual Acting Tail Gate Right and Left Upper Lock Manual

### TAIL GATE REMOTE CONTROL INSIDE HANDLE-Gate Operation (Center)

#### Removal and Installation

1. Open tail gate to a gate position.
2. Raise inside handle and disengage remote push rod from spring clip (See Fig. 9-15).
3. Remove screws securing handle to inner panel and remove handle (Fig. 9-15).
4. To install, reverse removal procedure.

### TAIL GATE INSIDE HANDLE AND CABLE ASSEMBLY-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. 9-16).
4. Raise inside handle and remove screws securing handle to inner panel and remove handle.
5. To install, reverse removal procedure.

**NOTE:** Prior to reinstalling inner panel cover, water deflector and access hole cover perform dual acting tail gate lock synchronization checks, as subsequently described.

### TAIL GATE LOCK REMOTE CONTROL ASSEMBLY-Gate Operation (Center)

#### Removal

1. Open tail gate to gate position.

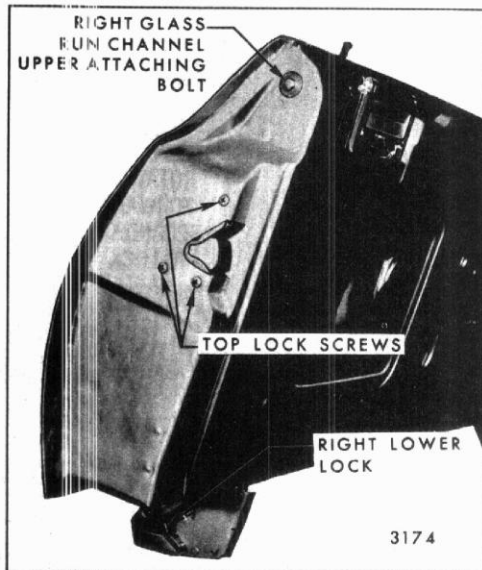


Fig. 9-15-Tail Gate Inside Handle Attachment-  
Gate Operation

2. Remove inner panel cover, water deflector and access hole covers.
3. Disconnect remote control to lock connecting rods at remote control assembly by sliding clips out of engagement (Fig. 9-17).
4. Remove remote control to tail gate inner panel attaching bolts (Fig. 9-18).
5. Disengage remote control center handle from push rod and remove remote control and rod assembly (Fig. 9-17).

#### Installation

1. With tail gate open in a gate position, manually lock upper right and left locks as shown in Figure 9-24.

**CAUTION:** With tail gate open in a gate position and upper locks engaged, the tail gate has been placed in a vulnerable position and could drop from the right lower lock if the inside DOOR remote handle was actuated. As a safety precaution, prior to manually locking either right or left upper locks, apply body tape over inside door remote handle to render same inoperable (See Fig. 9-25).

2. Loosen gate remote control synchronization (adjusting) screw (left hand thread, refer to Figure 9-19). The adjusting screw is used to insure that right and left locks and gate control push rod are synchronized.

3. Install a small nail or cotter pin in gate remote control synchronization (alignment) holes (Figure 9-19). This pin holds all levers in position until final adjustment has been achieved.

**NOTE:** Service replacement remote control assemblies are supplied with the cotter pin installed in the alignment hole.

4. Engage remote control with remote control inside handle push rod and install remote control (two bolts) to inner panel.
5. Connect all remote rods and tighten remote synchronization (adjusting) bolt (See Figure 9-22).
6. Remove pin from remote control synchronization (alignment) hole (See Figure 9-22) and activate tail gate inside remote control handle (gate operation) to unlock upper right and left locks that were manually locked.
7. Remove tape applied over tail gate inside handle (door operation) and perform dual acting tail gate lock synchronization checks, as subsequently described.
8. Reinstall access hole covers, water deflector and inner panel cover.

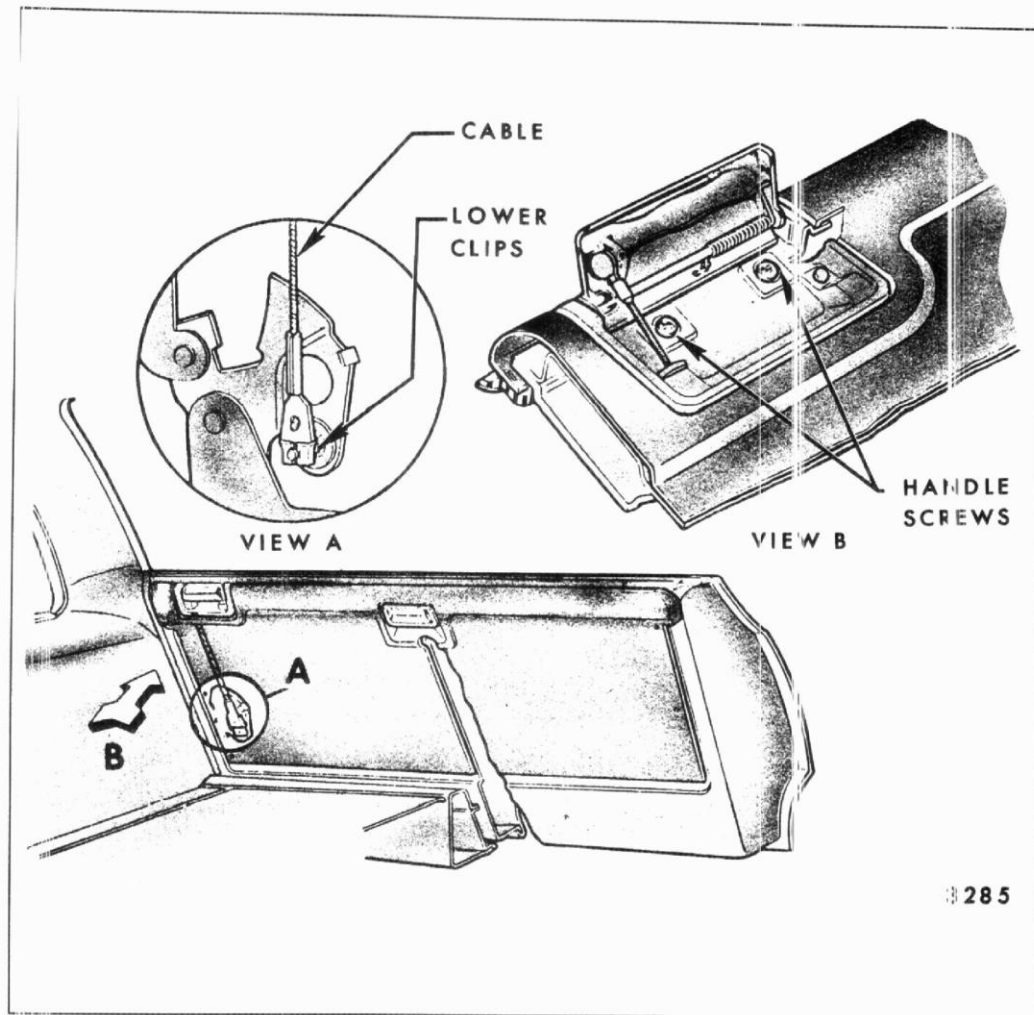
#### TAIL GATE RIGHT UPPER LOCK ASSEMBLY-

##### Removal

1. Remove tail gate window and right lower glass run channels as previously described.
2. With tail gate open in a gate position, remove three screws securing lock to tail gate lock pillar panel (Figure 9-20).
3. Disengage tail gate inside handle cable assembly (door operation) from lock (refer to View "A", Figure 9-16).
4. Disengage clips securing right upper lock to lower lock connecting rod, remote control to upper lock connecting rod and tail gate window "block-out" rod (Figure 9-21).

**CAUTION:** DO NOT pull rearward on the right upper lock to lower lock connecting rod ("8", Figure 9-21) when disengaging right upper lock





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Fig. 9-16-Tail Gate Inside Handle and Cable Assembly-Door Operation

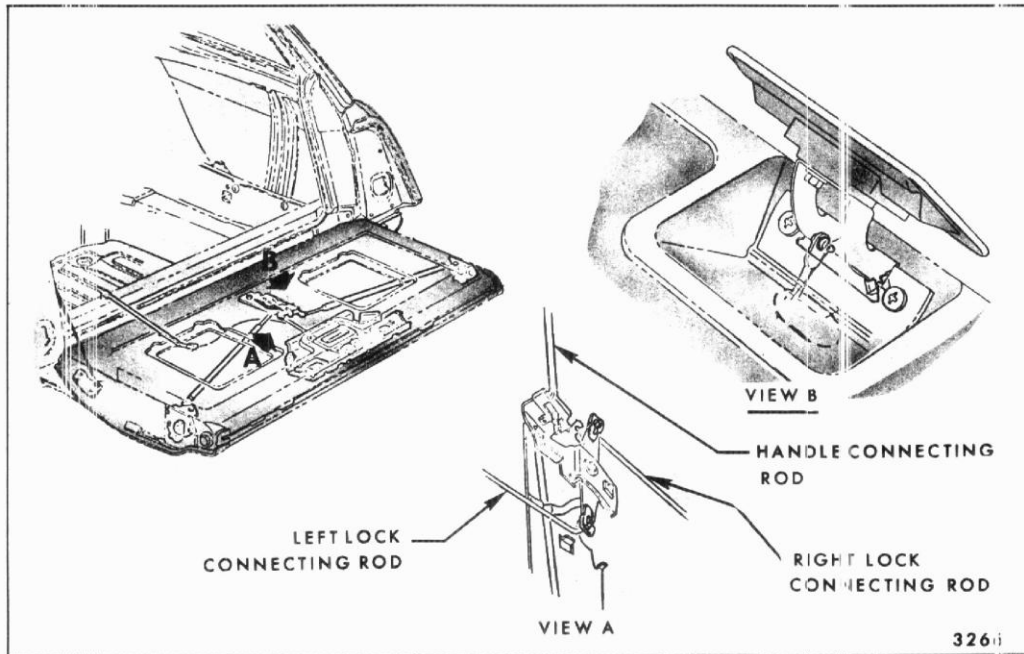


Fig. 9-17-Dual Acting Tail Gate Lock Remote Control Assembly-Gate Operation (center)

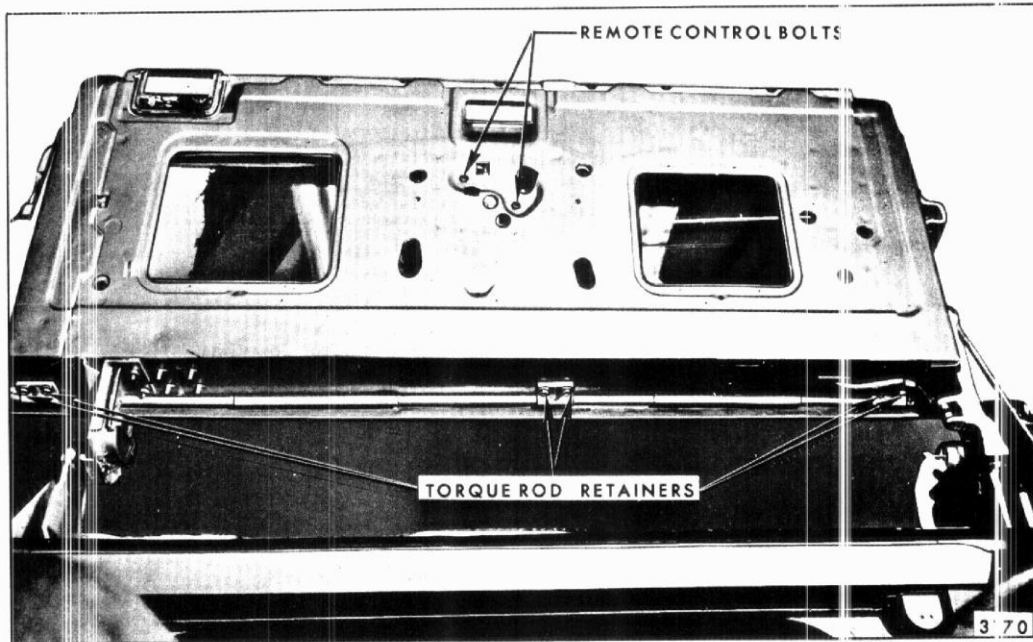


Fig. 9-18-Dual Acting Tail Gate Torque Rod Retention

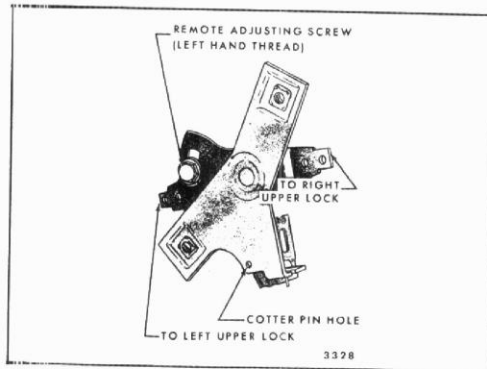


Fig. 9-19-Tail Gate Lock Remote Control-Gate Operation

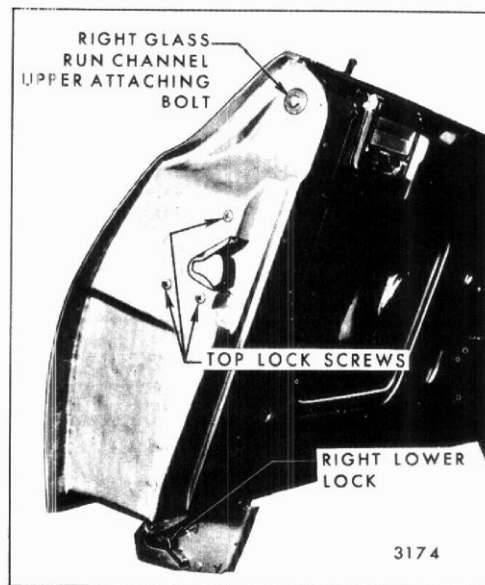


Fig. 9-20-Dual Acting Tail Gate Right Upper and Lower Lock Attachment

from end of rod. Excessive movement of this rod could cause the gate to drop from the right lower lock which could result in personal injury or damage to the tail gate assembly.

5. On electric styles, disconnect tail gate cut-out switch (Figure 9-9) and remove lock assembly through access hole.

## Installation

1. With tail gate open in a gate position, install screws (three) securing lock to tail gate lock pillar panel (Fig. 9-20).
2. Loosen lower lock to upper lock connecting rod synchronization (adjusting) bolt located on upper lock (Figure 9-22).
3. Engage inside handle and cable assembly, lower lock to upper lock connecting rod, remote control to upper lock connecting rod and block-out rod with right upper lock assembly (Figure 9-21).
4. Manually lock upper right and left locks as shown in Figure 9-24.

**CAUTION:** With tail gate open, in a gate position, and upper locks manually engaged, the tail gate has been placed in a vulnerable position and could drop from the right lower lock if the inside DOOR remote handle was activated, which could result in personal injury or damage to the tail gate assembly. As a safety precaution, prior to manually locking either right or left upper locks, apply body tape over inside door remote handle to render same inoperative (See Figure 9-25).

5. With the right lower lock fully engaged with the striker, reach through the access hole and hold the lower to upper lock connecting rod forward (Figure 9-27), then tighten door lock, synchronization bolt (Figure 9-27).

**NOTE:** This adjustment is self seeking and should automatically synchronize the right upper and lower locks when the synchronizing (adjusting) bolt is loosened. However, to assure that the levers have automatically assumed their position, it is essential that the upper to lower lock connecting rod be held forward while tightening the synchronizing (adjusting) bolt.

**CAUTION:** DO NOT pull rearward on the right upper to lower connecting rod during this adjustment. Rearward movement of this rod could cause the tail gate to drop from the right lower lock, which could result in personal injury or damage to the tail gate assembly.

6. With right and left upper locks in a locked position, visually check gate remote synchronization holes in gate remote control levers (center of gate as shown in Figure 9-27). IF THE HOLES DO NOT LINE UP, loosen gate remote synchronization bolt (Figure 9-27) by turning to the right (left hand thread), approximately three turns.

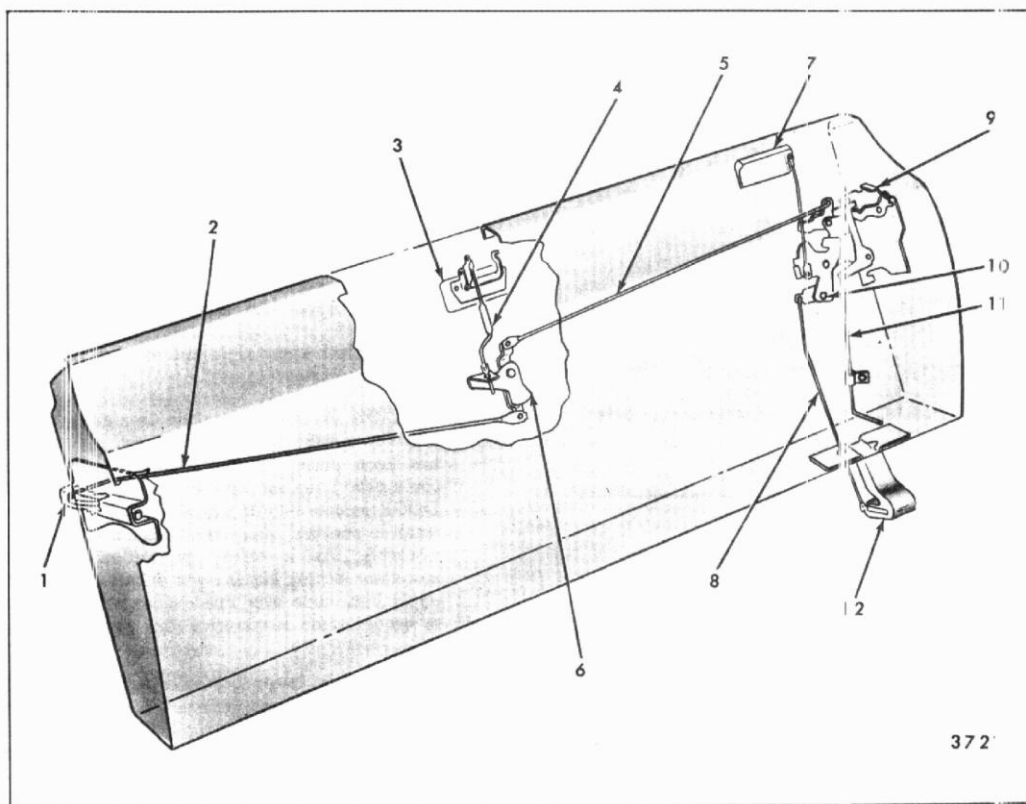


Fig. 9-21-Dual Acting Tail Gate Lock and Remote Control Linkage

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

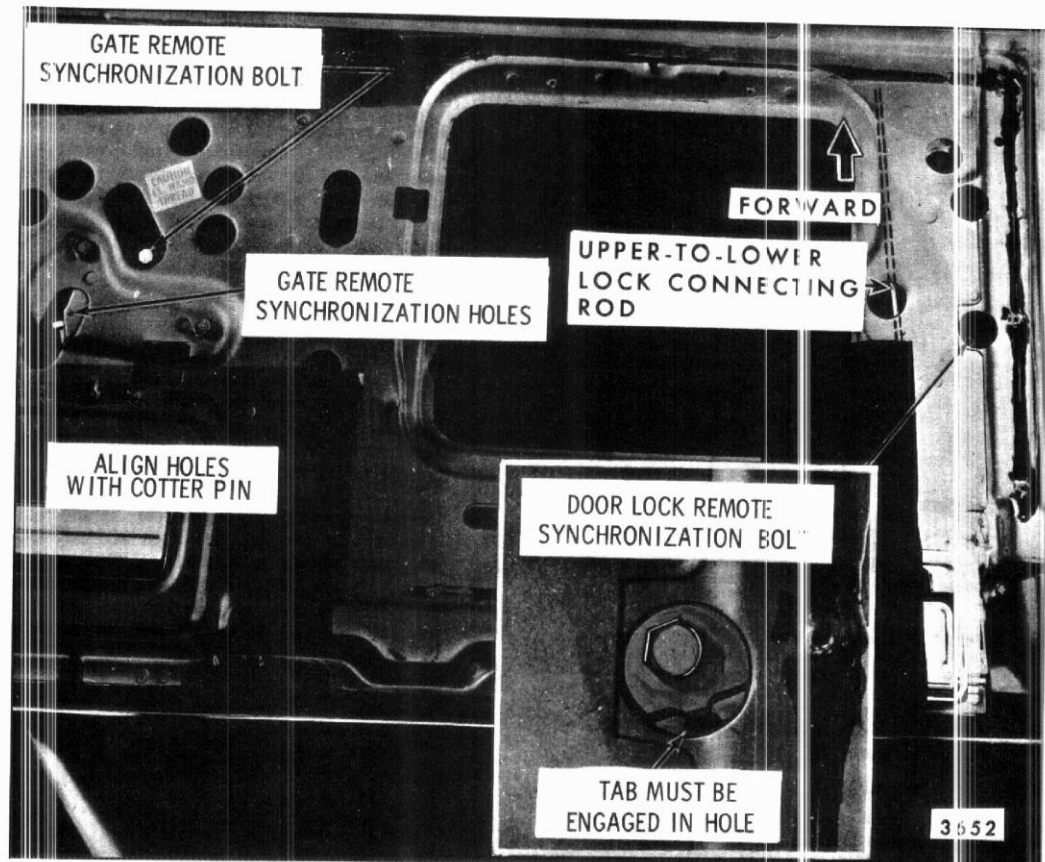


Fig. 9-22-Dual Acting Tail Gate Lock Synchronization Check

7. With gate synchronization bolt loose, check to make certain there is no bind in remote levers. Align gate remote synchronization holes in remote assembly by inserting a cotter pin through alignment hole in both levers (Figure 9-27). Then, tighten synchronization bolt to 57-87 inch pounds and REMOVE COTTER PIN.
8. Activate tail gate inside remote handle (gate operation) to unlock upper right and left locks that were manually locked and remove tape applied over tail gate inside handle (door operation). Perform Dual Acting Tail Gate Lock Synchronization Checks as subsequently described.
9. 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.

#### TAIL GATE RIGHT LOWER LOCK ASSEMBLY

##### Removal and Installation

1. Open tail gate to a door position.
2. Remove inner panel cover, water deflector and access hole cover as previously described.
3. Loosen door lock synchronization (adjusting) bolt (Figure 9-27).

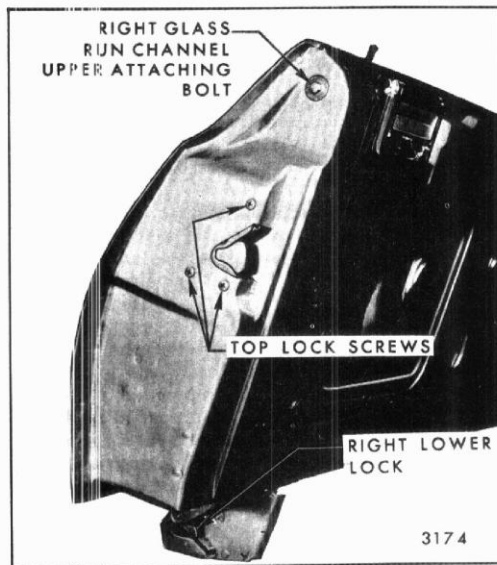


Fig. 9-23-Dual Acting Tail Gate Right Upper and Lower Lock Attachment

4. Remove lower lock cover and disengage upper to lower lock connecting rod (Fig. 9-21).
5. Scribe (mark) position of 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. 9-20).
6. To install, engage lock with upper to lower lock connecting rod. Align lock pillar and install lock attaching nuts and bolts.
7. Close tail gate and open to a gate position.
8. Manually lock right and left upper locks as shown in Figure 9-24.

**CAUTION:** With tail gate open and upper locks manually engaged, the tail gate has been placed in a vulnerable position and could drop from the right lower lock if the inside DOOR remote handle was activated, which could result in personal injury or damage the tail gate assembly. As a safety precaution, prior to manually locking either right or left upper locks, apply body tape over inside door remote handle to render same inoperative (See Figure 9-25).

9. With the right lower lock fully engaged with the striker, reach through the access hole and hold the

lower to upper lock connecting rod forward (Figure 9-27), then tighten door lock synchronization (adjusting) bolt Figure 9-27.

**NOTE:** This adjustment is self seeking and should automatically synchronize the right upper and lower locks when the synchronizing (adjusting) bolt is loosened. However, to assure that the levers have automatically assumed their position it is essential that the upper to lower lock connecting rod be held forward while tightening the synchronizing (adjusting) bolt.

**CAUTION:** DO NOT pull rearward on the right upper to lower connecting rod during this adjustment. Rearward movement of this rod could cause the tail gate to drop from the right lower lock, which could result in personal injury or damage to the tail gate assembly.

10. Activate tail gate inside remote handle (gate operation) to unlock upper right and left locks that were manually locked and remove tape applied over tail gate inside handle (door operation). Perform dual acting tail gate lock synchronization checks, as subsequently described.
11. Reinstall all previously removed components.

## TAIL GATE LEFT UPPER HINGE AND LOCK ASSEMBLY-GATE SIDE

### Removal and Installation

1. Open tail gate to a gate position and remove tail gate window as previously described. Scribe (mark) a line around the outer perimeter of the hinge and lock assembly on the tail gate lock pillar.
2. On "B" body styles, bolts A, B, C and D (Fig. 9-26) are all retained by nuts accessible through tail gate inner panel. On "A" body styles, bolts A and B fit into a tapping plate and bolts C and D are retained by nuts. In either 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. 9-21).
4. To install, align lock assembly within scribe marks and install attaching bolts and nuts.

**NOTE:** Torque all nuts to a minimum of forty foot pounds.

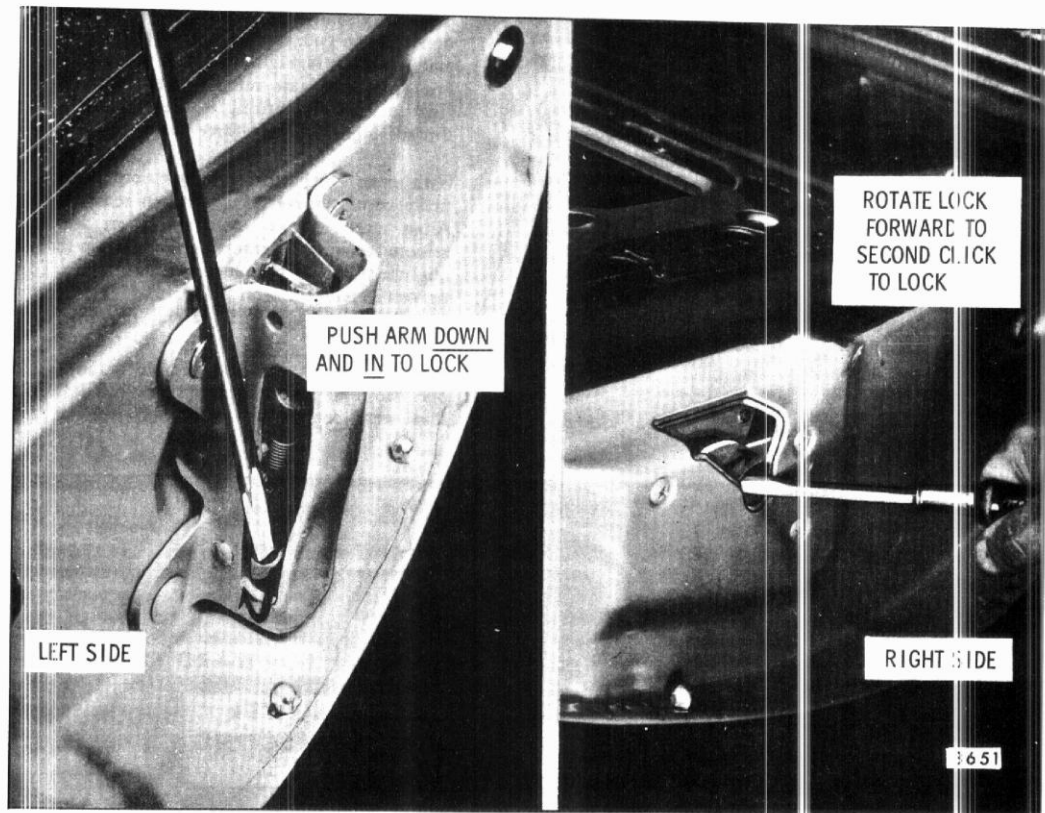


Fig. 9-24-Dual Acting Tail Gate Right and Left Upper Lock Manual Locking

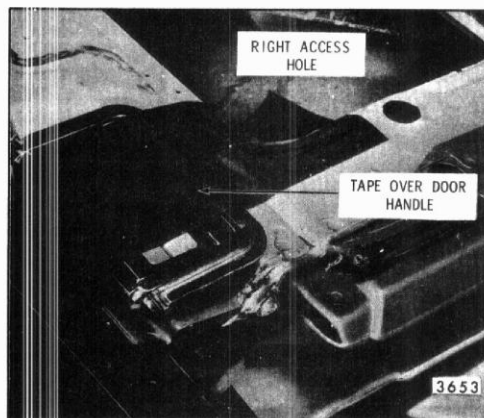


Fig. 9-25-Inside Handle (Door Operation) Taped

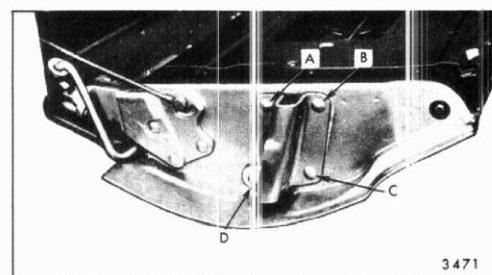


Fig. 9-26-Dual Acting Tail Gate Left Upper Hinge and Lock Assembly - "B" Body Shown - "A" Body typical



5. With tail gate open in a gate position, manually lock right and left upper locks as shown in Figure 9-24.

**CAUTION:** As a safety precaution, prior to manually locking either right or left upper locks, apply body tape over inside door remote handle to render same inoperative (See Figure 9-25). With tail gate open and upper locks manually engaged, the tail gate has been placed in a vulnerable position and could drop from the right lower lock if the inside DOOR remote handle was activated. A tail gate dropping from the right lower lock, when opened in a gate position, could result in personal injury or damage the tail gate assembly.

6. With right and left upper locks in a locked

position, visually check gate remote synchronization holes in gate remote control levers (center of gate as shown in Figure 9-17). If the holes do not line up, loosen gate remote synchronization bolt (Figure 9-27) by turning to the right (left hand thread) approximately three turns.

7. With gate synchronization bolt loose, check to make certain there is no bind in remote levers. Align gate remote synchronization holes in remote assembly by inserting a cotter pin through alignment hole in both levers (Figure 9-27). Then, tighten synchronization bolt to 57-87 inch pounds and REMOVE COTTER PIN.
8. Activate tail gate inside remote handle (gate operation) to unlock upper right and left locks that were manually locked and remove tape

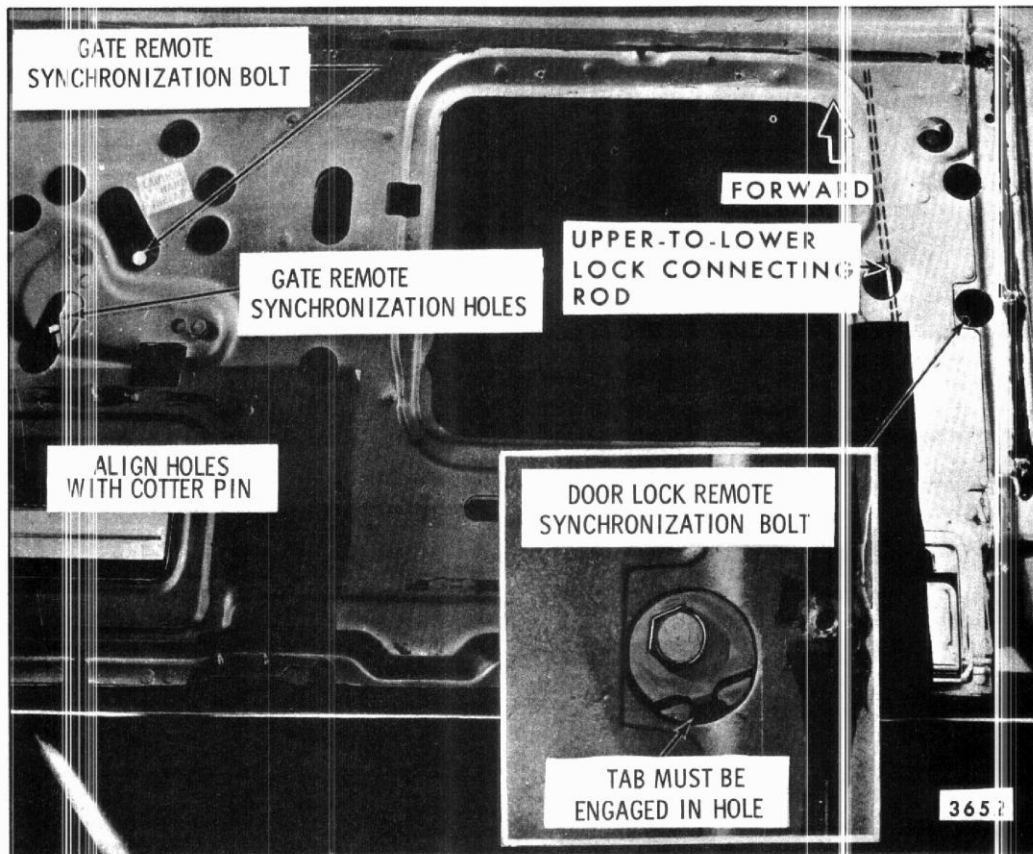


Fig. 9-27-Dual Acting Tail Gate Lock Synchronization



applied over tail gate inside handle (door operation). Perform Dual Acting Tail Gate Lock Synchronization Checks, as subsequently described.

9. Reinstall all previously removed components.

#### Adjustments

The tail gate left upper hinge and lock assembly (gate side) is adjustable up or down and lock or fore or aft.

### TAIL GATE LEFT LOWER HINGE ASSEMBLY

#### Removal and Installation

1. Open tail gate assembly to a gate position and remove tail gate window as previously described.
2. Raise tail gate assembly to a partially closed position to achieve a neutral torque rod position or until tension on torque rod has been relieved. Then, with torque rod in a neutral position, remove torque rod assist link retainer to body attaching bolts (Figure 9-20).
3. Lower tail gate and support in a full-open position. Remove support cable to left lower hinge to gate bolt or nut (Figure 9-28). On "A" styles, the support cable bolt is retained with a nut. On "B" body styles, a bolt is installed into a tapping plate.
4. WITH THE AID OF A HELPER, remove left lower hinge to gate attaching bolts as follows:

- A. On "A" body styles, bolt A, Figure 9-28, fits into a tapping plate. Bolts B and C, Figure 9-28 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.

- B. On "B" body styles, bolts A B and C, Figure 9-28, are pressed into the hinge assembly and retained to the tail gate by nuts. The pressed bolts are removed with the hinge - not separately.

5. Remove left lower hinge to body attaching bolts (Figure 9-29), then, remove hinge from body.

6. To install, reverse removal procedure.

### TAIL GATE LEFT UPPER HINGE AND STRIKER ASSEMBLY BODY SIDE

#### Removal and Installation

1. With the tail gate properly supported in an open (gate position) position, remove hinge and striker attaching screws (Figure 9-29) and remove assembly from left body 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.

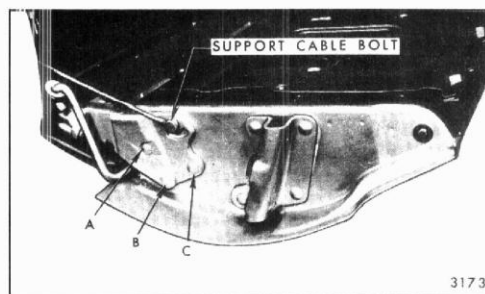


Fig. 9-28-Dual Acting Tail Gate Left Lower Hinge-Removal "B" Body Shown- "A" Body Typical

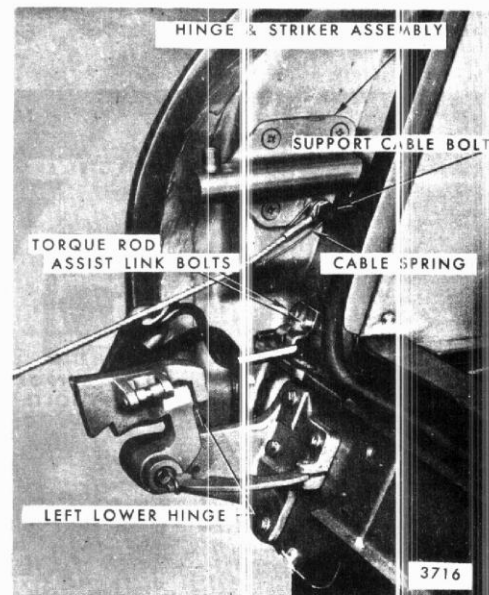


Fig. 9-29-Dual Acting Tail Gate Left Upper and Lower Hinge and Support Cable Attachment

2. To install, reverse removal procedure, making certain the lock striker is torqued to 36-45 foot pounds.

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

**NOTE:** THIS LOCK STRIKER IS AN IMPORTANT ATTACHING PART IN THAT IT COULD AFFECT THE PERFORMANCE OF VITAL COMPONENTS AND SYSTEMS, AND/OR COULD RESULT IN MAJOR REPAIR EXPENSE. IT MUST BE REPLACED WITH ONE OF THE SAME PART NUMBER OR WITH AN EQUIVALENT PART IF REPLACEMENT BECOMES NECESSARY. DO NOT USE A REPLACEMENT PART OF LESSER QUALITY OR SUBSTITUTE DESIGN. TORQUE VALUES MUST BE USED AS SPECIFIED DURING REASSEMBLY TO ASSURE PROPER RETENTION OF THIS PART.

#### TAIL GATE RIGHT UPPER STRIKER ASSEMBLY

The right upper striker assembly consist of a single metal bolt and washer assembly that is threaded into back pillar. With this design, the tail gate is secured in the closed position when the right upper tail gate lock fork bolt snaps-over and engages with the striker bolt.

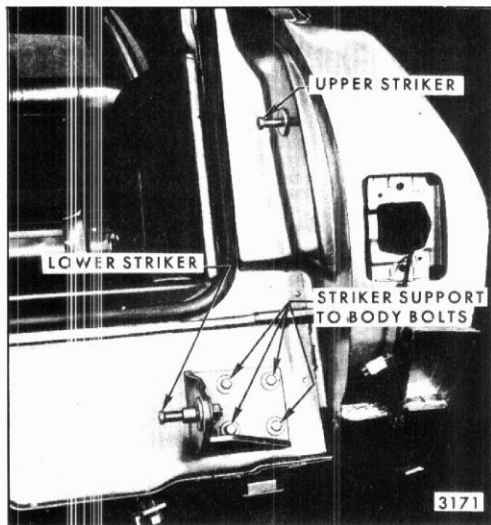


Fig. 9-30-Dual Acting Tail Gate Right Upper and Lower Striker Assemblies

#### Removal and Installation

1. Mark position of striker on back body pillar (Figure 9-30).
2. Insert Tool J-23457 into the star shaped tool recess in the head of the striker bolt and remove striker.
3. To install, reverse removal procedure, making certain the lock striker is torqued to 36-45 foot pounds.

**NOTE:** THIS LOCK STRIKER IS AN IMPORTANT ATTACHING PART IN THAT IT COULD AFFECT THE PERFORMANCE OF VITAL COMPONENTS AND SYSTEMS, AND/OR COULD RESULT IN MAJOR REPAIR EXPENSE. IT MUST BE REPLACED WITH ONE OF THE SAME PART NUMBER OR WITH AN EQUIVALENT PART IF REPLACEMENT BECOMES NECESSARY. DO NOT USE A REPLACEMENT PART OF LESSER QUALITY OR SUBSTITUTE DESIGN. TORQUE VALUES MUST BE USED AS SPECIFIED DURING REASSEMBLY TO ASSURE PROPER RETENTION OF THIS PART.

#### Adjustments

Right upper striker assemblies are adjustable up or down, fore or aft and outboard by installing spacers beneath the striker washer. Spacers are available as service parts as follows:

- A. 5/64" spacer - Part No. 4469196 or equivalent
- B. 5/32" spacer - Part No. 4469197 or equivalent
- C. 1/4" spacer - Part No. 4469194 or equivalent
- D. 5/16" spacer - Part No. 4469195 or equivalent

#### TAIL GATE RIGHT LOWER STRIKER AND SUPPORT ASSEMBLY

##### Removal and Installation

1. With tail gate open in a floor position, remove step plate and filler panel to gain access to the striker and support assembly.
2. Scribe (mark) position of striker support on body and remove support (Figure 9-30).
3. To install, reverse removal procedure.

**NOTE:** THIS LOCK STRIKER IS AN IMPORTANT ATTACHING PART IN THAT IT COULD AFFECT THE PERFORMANCE OF

VITAL COMPONENTS AND SYSTEMS, AND/OR COULD RESULT IN MAJOR REPAIR EXPENSE. IT MUST BE REPLACED WITH ONE OF THE SAME PART NUMBER OR WITH AN EQUIVALENT PART IF REPLACEMENT BECOMES NECESSARY. DO NOT USE A REPLACEMENT PART OF LESSER QUALITY OR SUBSTITUTE DESIGN. TORQUE VALUES MUST BE USED AS SPECIFIED DURING REASSEMBLY TO ASSURE PROPER RETENTION OF THIS PART.

#### Adjustments

The striker support is adjustable up or down and laterally. In addition the striker bolt is adjustable laterally through the use of service shims.

### TAIL GATE TORQUE ROD AND ASSIST LINK

#### Removal and Installation

1. Remove tail gate inner panel, water deflector and access hole cover as previously described.
2. With tail gate open in a door position, remove right lower lock cover, bumperette and step plate.
3. Remove rear bumper as follows.
  - A. Remove the two rearward bumper to frame attaching bolts and loosen the forward two bolts (Figure 9-31).

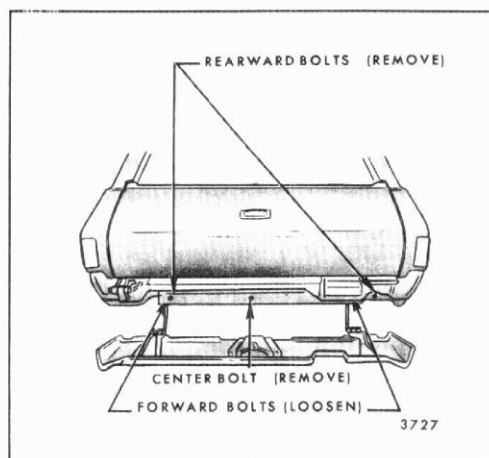


Fig. 9-31-Bumper Removal-"A" Body Shown, "B" Body Similar

- B. Remove the center bumper to frame bolt and lower bumper (Figure 9-31).

4. Close the tail gate and open sufficiently as a gate to achieve a neutral torque rod position or until tension on torque rod has been relieved. With torque rod in a neutral position, remove torque rod assist link retainer attaching bolt (Figure 9-32) and disengage assist link from end of torque rod.

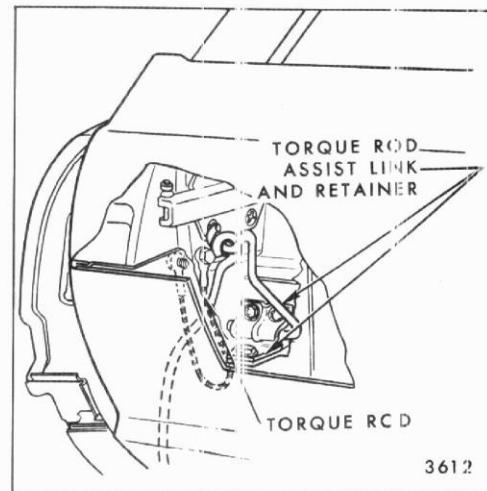


Fig. 9-32-Dual Acting Tail Gate Assist Link

5. Lower tail gate to a full-open position and remove torque rod retainers along bottom of tail gate assembly (Figure 9-23).
6. Raise tail gate window sufficiently to gain access to the torque rod retainers located inside the tail gate on the right lock pillar. Using a suitable tool, pry the torque rod from the retainers and remove the rod.

**NOTE:** To raise electrically operated tail gate windows, with the gate open to the gate position, it is first necessary to manually lock both upper locks as shown in Figure 9-24.

**CAUTION:** As a safety precaution, prior to manually locking either right or left upper locks, apply body tape over inside door remote handle to render same inoperative (See Figure 9-25). A tail gate open, in a gate position, and upper locks manually engaged, the tail gate has been placed in a vulnerable position and could drop from the right lower lock if the inside DOOR remote

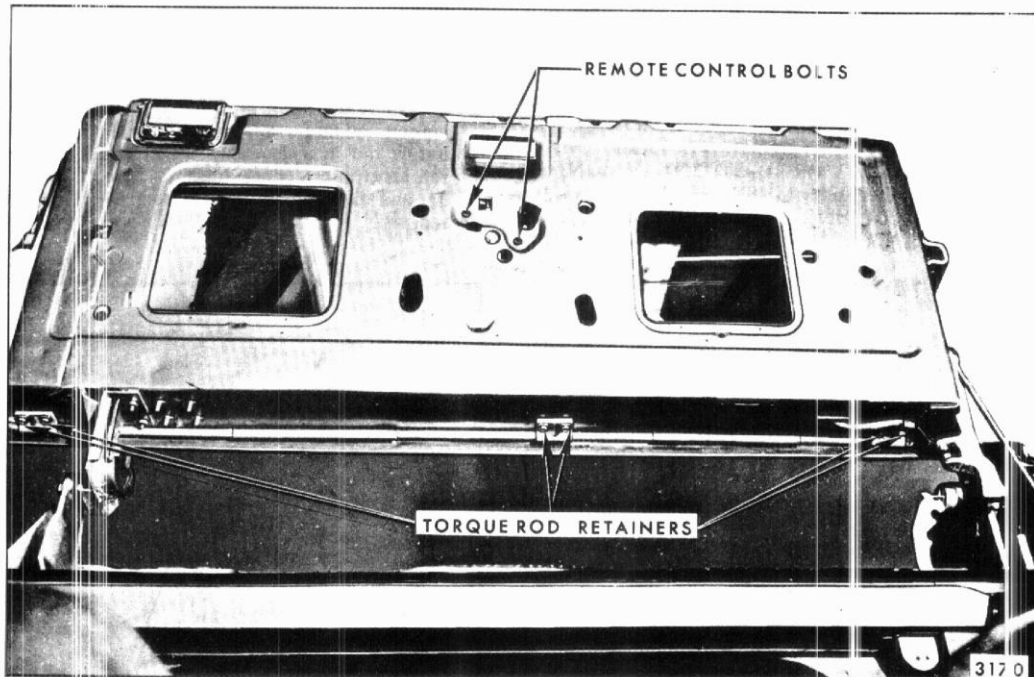


Fig. 9-33-Dual Acting Tail Gate Torque Rod Retention

handle was activated. A tail gate dropping from the right lower lock could result in personal injury or damage to the tail gate assembly.

7. To install, reverse removal procedure.

## TAIL GATE ASSEMBLY

### Removal and Installation

1. Oper. tail gate sufficiently (partially open) as a gate to achieve a neutral torque rod position or until tension on torque rod has been relieved. With torque rod in a neutral position, remove torque rod assist link retainer to body attaching bolts (Figure 9-34).
2. Support tail gate in a full-open gate position and remove support cable to left upper hinge and striker assembly attaching bolt (Figure 9-34).
3. On styles equipped with electric options in the tail gate assembly, remove the tail gate inner panel water deflector and access hole cover. Then, disconnect wire harness at connectors and pull from tail gate.

4. WITH THE AID OF A HELPER, remove left lower hinge to body attaching bolts (Figure 9-34).
5. Manually lock right and left upper locks as shown in Figure 9-40. Then with the aid of a helper to support the tail gate, activate the INSIDE DOOR REMOTE HANDLE (right side) to unlock and free the right lower lock from the striker assembly. Remove gate assembly by lifting upward, then rearward.

6. To install, reverse removal procedure.

### Adjustments

Proper evaluation of a misaligned condition can eliminate performing unnecessary adjustments. To properly evaluate a misaligned tail gate condition, the upper right lock striker should be removed. If the gate, when operated as a door, rides "up" or is pulled "down" by the lower right lock striker the lower right lock striker and striker support should be loosened completely or the lower striker removed.

**NOTE:** Prior to performing any adjustments, the position of the hinge, lock or striker to be adjusted should be marked to facilitate realignment from original position.

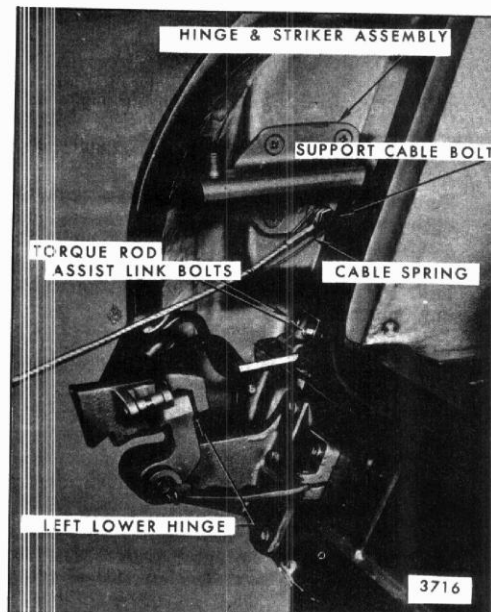


Fig. 9-34-Dual Acting Tail Gate Left Upper and Lower Hinge and Support Cable Attachment

The lower left hinge-to-body adjustment is the key adjustment for properly positioning the tail gate in the body opening. All other hinge and lock adjustments are for the purpose of providing flush alignment of the tail gate outer panel with adjacent panels and to provide proper operation of the locks.

**NOTE:** The upper left lock and striker adjustments and the right upper and lower lock striker adjustment are not provided for up or down adjustment of either side of the gate assembly. However, some adjustment at one or more of these locations is usually required when the left lower hinge is adjusted to raise, lower or move the gate sideways in the opening.

1. Lower Left Hinge Assembly at Body Attachment - Adjustable "up" or "down" and "laterally" ("1", Figure 9-35).

To gain access to lower left hinge-to-body attaching bolts, remove rubber hinge cover at left end of step pad. Loosen the four hinge-to-body attaching bolts and adjust hinge "up", "down", "laterally" or rotate as required.

Rotating the hinge slightly will raise or lower the right side of the gate. This can be accomplished

by loosening the three lower hinge-to-body attaching bolts. Then with the gate open as a door, support the right side of the gate in the desired raised or lowered position and tighten the attaching screws. If this adjustment is performed or if the gate is moved sideways, it may be necessary to also adjust the upper left hinge and lock striker, as described under adjustment "4".

If the lower left hinge is adjusted "upward" or "downward", clearance between the upper left lock frame on tail gate and the hinge and lock striker on body pillar should be checked (specified clearance  $1/8"$  -  $7/32"$ ; see Figure 9-36), and, where required, the upper left lock should be adjusted as described under adjustment "3".

2. Lower Left Hinge Assembly - At gate attachment - adjustable "forward" or "rearward" ("2", Figure 9-35).

"Forward" or "rearward" adjustment of lower left hinge at the gate attachment is primarily for flush alignment of tail gate outer panel with adjacent panels in the area of the lower left hinge.

The lower left hinge-to-tail gate attaching nuts are located inside the tail gate. To loosen nuts for adjustment of tail gate on hinge, remove tail gate inner cover panel and carefully peel back inner panel water deflector sufficiently to gain access to hinge-to-gate attaching nuts. Adjust gate on hinge as required, then, tighten attaching nuts and reseal water deflector.

3. Upper Left Hinge and Lock Assembly - Adjustable "up", "down", "forward" and "rearward" ("3", Figure 9-35).

The "up" or "down" adjustment of the upper left lock is available to provide adequate clearance ( $1/8"$  to  $7/32"$ ) between the bottom of the lock frame and top of the hinge pin and striker plate. (See Figure 9-36). To check clearance, open gate as a door and measure distance between the upper surface of the upper left hinge pin and striker plate and the lower surface of the upper left lock frame.

The "forward" and "rearward" adjustment of the upper left lock is available to provide a flush alignment of the tail gate outer panel with adjacent body panels in the area of the upper left lock.

Prior to adjusting upper left lock, mark position of lock on tail gate. The lock attaching nuts, are located inside the tail gate. To loosen nuts, remove tail gate inner cover panel and carefully

peel back inner panel water deflector sufficiently to gain access to the inner panel left access hole cover. Then, remove cover and loosen hinge-to-gate attaching nuts. Adjust lock, as required, then replace all previously removed parts.

**CAUTION:** After any adjustment of the upper left lock, synchronization of the lock system should be checked and, where required, the lock system should be synchronized as subsequently described.

4. Upper Left Hinge and Striker Assembly - Adjustable "in" or "out" from body pillar ("4", Figure 9-35).

The upper left hinge and lock striker is not adjustable up, down, forward or rearward, however it is adjustable laterally from the body pillar by means of installing different thickness shims under the assembly.

This adjustment is available to provide proper engagement of the hinge pin and lock striker with the lock. This adjustment is not intended as a means of raising or lowering the left or right side of the gate.

The different thickness shims are available as service parts as follows:

- A. 1/8" shims - Part No. 8776037 or equivalent
- B. 3/16" shims - Part No. 8723094 or equivalent

C. 7/32" shims - Part No. 8723093 or equivalent

D. 1/4" shims - Part No. 8723090 or equivalent

E. 9/32" shims - Part No. 8723091 or equivalent

F. 5/16" shims - Part No. 8723092 or equivalent

To determine the correct shim thickness required, open gate as a door, then, while closing gate, carefully observe how the hinge pin and striker engages in the slot in the bottom surface of the lock. The pin should enter into the slot without any appreciable side pressure.

5. Right Upper Lock Striker Assembly ("5", Figure 9-37) - Adjustable "forward" or "rearward", "up" or "down" and "laterally" by using spacers

**CAUTION:** The upper right lock striker should be removed prior to performing any other hinge or lock adjustments.

To properly adjust the upper right lock striker, first open tail gate as a door and remove striker with tool J-23457. Check alignment of gate in body opening. THE GATE SHOULD BE PROPERLY ALIGNED IN BODY OPENING PRIOR TO ADJUSTMENT OF STRIKER. Install striker slightly more than finger tight. Then, carefully close gate to allow striker to self align. Then, carefully open gate and tighten striker. Operate gate both as a door and a gate and check flush alignment of outer panels in area of striker. If any further minor adjustment is required, mark

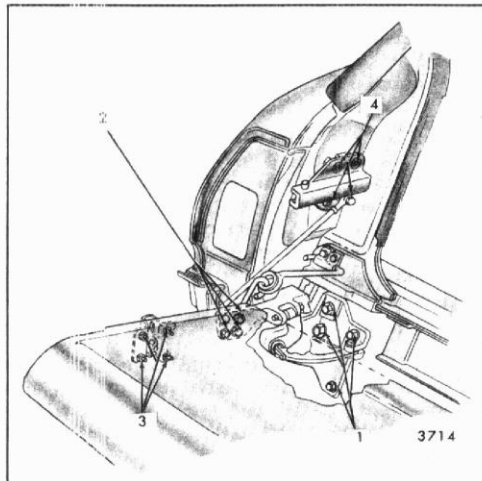


Fig. 9-35-Dual Acting Tail Gate Left Upper and Lower Hinge, Lock, and Torque Rod Attachments

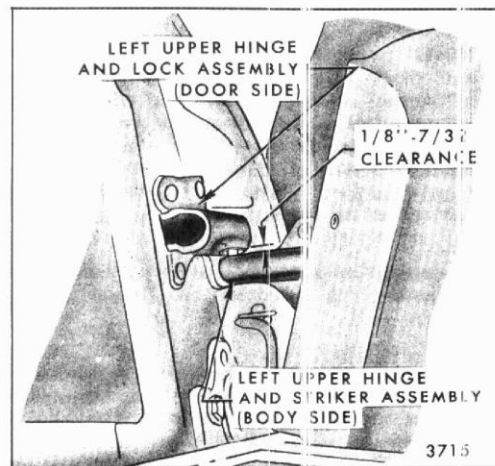


Fig. 9-36-Dual Acting Tail Gate Upper Left Lock Striker Clearance



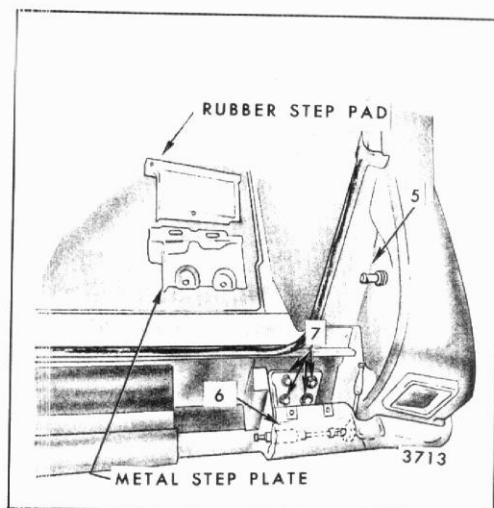


Fig. 9-37-Dual Acting Tail Gate Right Upper and Lower Lock Striker

position of striker on body pillar, loosen striker, make required adjustment from marked position and tighten striker.

6. Right Lower Lock Striker and Support Assembly

- a. Lower Right Lock Striker - Adjustable "Forward" and "Rearward" ("6", Figure 9-37).
- b. Lower Right Lock Striker Support - Adjustable "Up", "Down" and "Sideways" ("7", Figure 9-37).

To gain access to lower right lock striker or striker support attaching bolts, open tail gate as a door and remove right step pad and step plate (Figure 9-37). To loosen lock striker attaching nut, use a 3/8" ratchet drive with a universal, 3" extension and 9/16" deep socket, as shown in Figure 9-37. To loosen striker support, loosen attaching bolts and move support up and down to make sure it is free.

To adjust lower right lock striker or striker support, loosen striker nut or support bolts. Then, tighten nut or bolts finger tight and Carefully close gate as a door allowing striker or support to self align. Carefully open tail gate as a door and tighten striker nut or support bolts.

Operate gate both as a door and a gate and check both ease of operation and flush alignment of outer panels. If any further

minor adjustment is required, mark position of striker on support or support on body cross bars and make required adjustment from marked position as required.

**CAUTION:** Do not use upper right lock striker and/or lower lock striker support adjustments to align right side of gate "up" or "down" in the body opening.

7. Bumperette - Adjustable "up" or "down", "forward" or "rearward" and "laterally".

To adjust bumperette for proper alignment in the bumper opening, open tail gate as a door and remove bumperette support cover. To adjust bumperette "forward", "rearward" or "sideways" loosen nuts securing bumperette support to bottom of door. To adjust bumperette "up", "down" or sideways loosen nuts securing bumperette to bumperette support. Adjust bumperette for proper alignment in bumper opening and tighten attaching nuts.

### DUAL ACTING TAIL GATE LOCK SYNCHRONIZATION CHECK AND PROCEDURE

The lock system on the dual acting tail gate is designed to perform the following two "block-out" functions.

1. Allow the tail gate to be opened as a door and at the same time prevent accidental operation of the upper left lock (which allows the gate to be opened as a gate).
2. Allow the gate to be opened and closed as a tail gate and at the same time prevent accidental operation of the lower right lock (which allows gate to be opened as a door).

The above "block-out" functions are accomplished by levers in the upper right lock. Figure 9-38 shows the upper right lock (in closed door position) and identifies the levers which perform block-out functions.

To assure that the upper right lock levers perform the block-out functions properly, the upper right lock and gate remote control must be synchronized with the rest of the tail gate lock system (lower right lock and upper left lock). This synchronization is required to prevent accidental operation of the upper left lock when the gate is opened as a door and to prevent accidental operation of the lower right lock when the gate is opened as a gate.

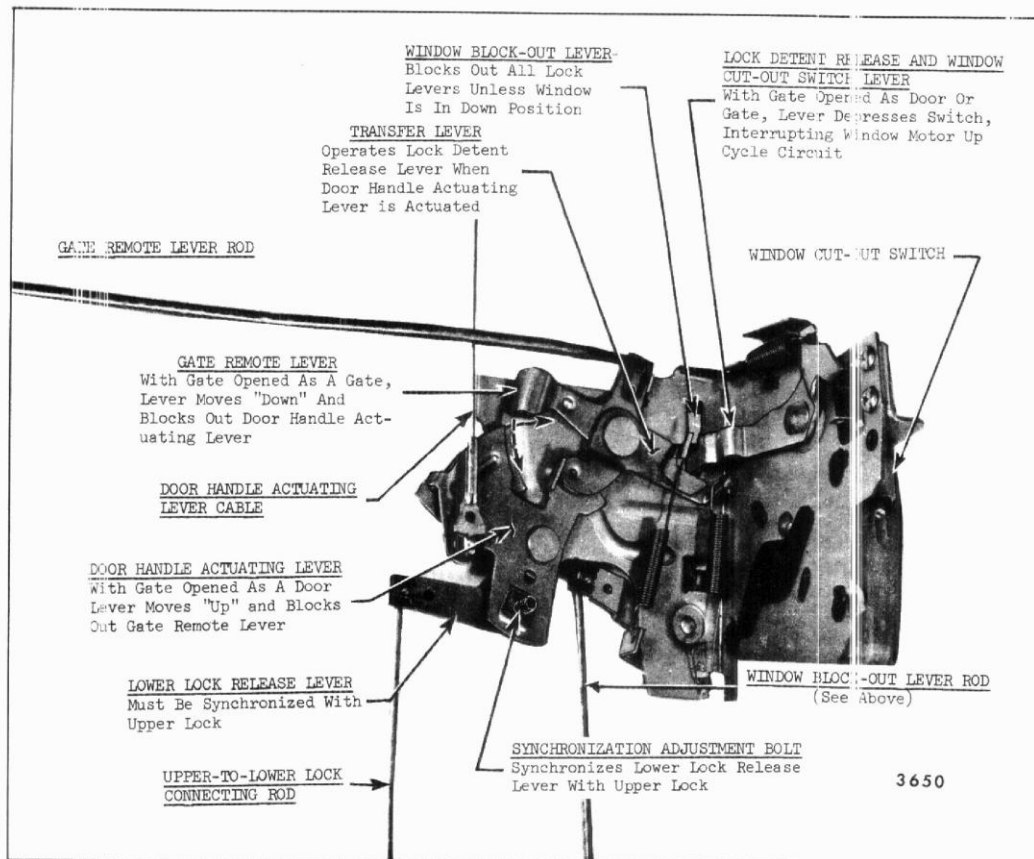


Fig. 9-38-Dual Acting Tail Gate Lock Synchronization Check

**CAUTION:** Whenever any of the locking system components inside the tail gate are serviced, the locking system **MUST BE** synchronized as described under "Lock Synchronization Procedure".

#### Lock Synchronization Checks

##### 1. Synchronization check for lower right lock.

- A. Open tail gate as a gate (horizontal position). Take precautions to prevent damage if tail gate should become disengaged from lower right lock by placing a protective support beneath the gate. Then grasp right inside lock release handle and pull upward until gate is in a vertical position and close gate. Open gate as a door and close gate.

- B. Repeat above procedure (Step 1-A) five times. If tail gate lower right lock does not become disengaged, synchronization of the lower right lock is correct. If tail gate becomes disengaged at lower right lock, reinstall gate on lower right lock and proceed with "Synchronization Procedure" as described and illustrated.

##### 2. Synchronization check for upper right and left locks

- A. Open tail gate as a door.

**CAUTION:** Place a protective support under right side of gate in the event gate becomes disengaged from upper left lock.



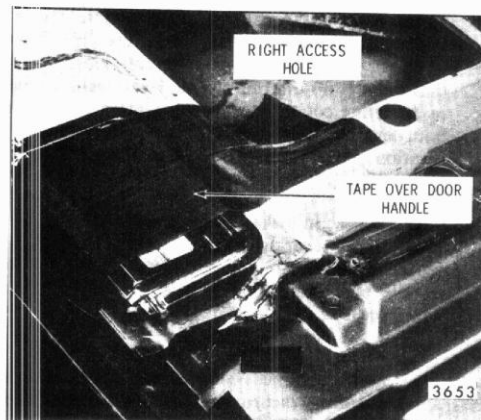


Fig. 9-39-Inside Handle (Door Operation)  
Taped

B. Operate center remote control handle (gate operation) with moderately heavy pressure, then operate the right inside lock release lever (door operation) in the same manner. Operate both handles at the same time.

C. Close tail gate and repeat above operation (Step 2-A and B) five times. If tail gate upper left lock does not become disengaged, the upper locks are in synchronization.

If tail gate becomes disengaged at the upper left lock, reinstall gate on upper left lock and proceed with "Synchronization Procedure" as described and illustrated.

#### Lock Synchronization Procedure

1. Open gate as a door then close gate securely. Open tail gate to "gate" (horizontal) position.

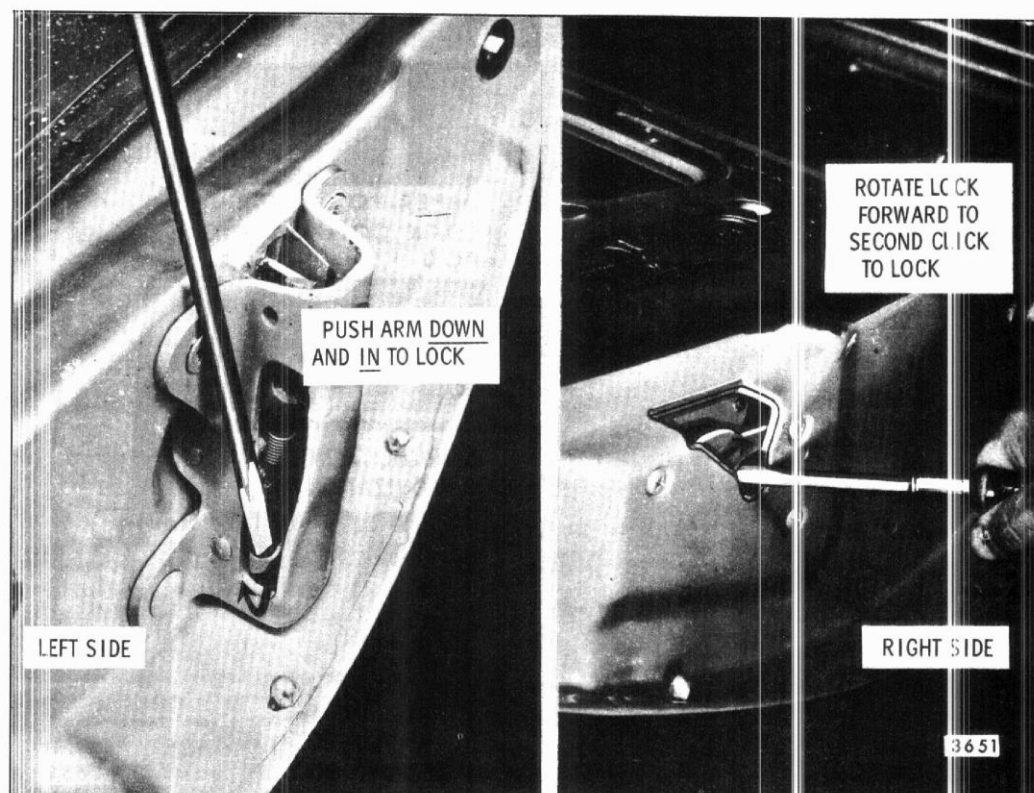


Fig. 9-40-Dual Acting Tail Gate Right and Left  
Upper Lock Manual Locking

## 9-30 TAIL GATE

2. Remove tail gate inner cover panel; carefully remove inner panel water deflector or detach water deflector sufficiently to gain access to gate remote control and door lock synchronization bolts. Remove right inner panel access hole cover.
3. Place tape over door lock handle, as shown in Figure 9-39, to prevent accidental operation of lower right lock after upper locks have been manually locked as outlined below.
4. Manually lock both upper right and upper left locks as shown in Figure 9-40.
5. With all locks in locked position, visually check gate remote synchronization holes in gate remote control levers (center of gate as shown in Figure 9-41). If holes line up, proceed with step 7. If holes do not line up, loosen (turn to right

approximately three turns gate remote control synchronization bolt (this bolt has left hand threads). With synchronization bolt loose, check that there is no bind in remote levers. Align holes by inserting cotter pin through alignment hole in both levers (Figure 9-41). Then, tighten synchronization bolt to 57-87 INCH lbs. REMOVE COTTER PIN.

6. With all locks in locked position and with the right lower lock securely engaged with the striker, loosen approximately three turns the door lock remote synchronization bolt at the right upper lock (See Fig. 9-41).

This adjustment is "self-seeking" and should automatically synchronize the right upper and lower locks when the synchronizing bolt is

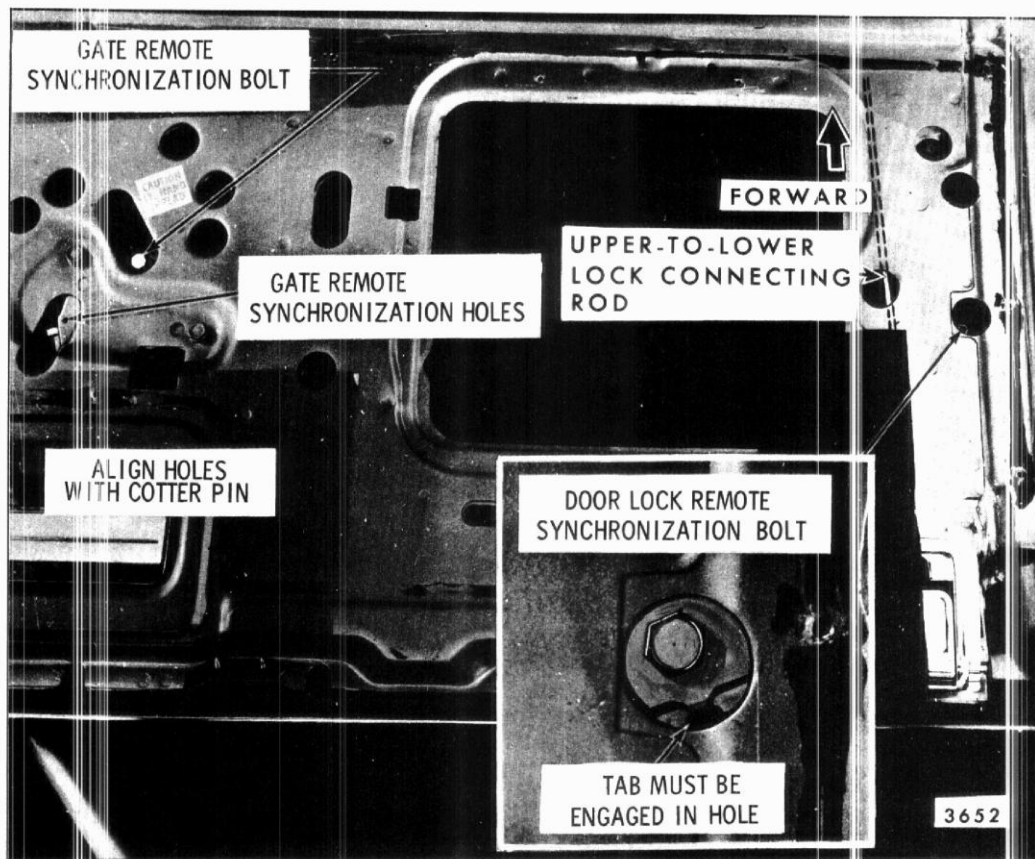


Fig. 9-41-Dual Acting Tail Gate Lock Synchronization Check

loosened. However, to assure that the levers automatically assumed their proper position, reach in through access hole and hold lower-to-upper lock connecting rod FORWARD (Figure 9-41) while tightening door lock synchronization bolt to 76-116 inch lbs. Make sure tab on door lock remote synchronization lever is properly engaged in hole (See Figure 9-41).

**NOTE:** The action of loosening the lock synchronization bolt can readily unlock the right lower lock causing the right side of the gate to disengage from the lock striker. To help prevent this from occurring, reach through access hole and hold the upper-to-lower lock connecting rod (See Fig. 9-41) FORWARD while loosening synchronization bolts.

If lower right lock should unlock and become disengaged from striker, lift right side of tail gate up and forward to re-engage lock with striker.

7. Unlock upper locks by actuating tail gate handle (at center of gate).
8. Remove tape from door handle and close gate.
9. Perform lock synchronization checks, check window operation.
10. Reseal tail gate inner panel water deflector and install tail gate inner cover panel.

### DUAL ACTING TAIL GATE DIAGNOSIS AND SERVICING PROCEDURES CHART

CONDITION	APPARENT CAUSE	CORRECTION
1. Gate does not open as a gate.	1. Glass blockout lever of upper right hand lock not actuated. <b>NOTE:</b> 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. (This check can be performed with bumper removed). (B) Open as a door and slam it to lock. (C) If the lock still is unlocked, the lower striker should be adjusted aft.
	3. Synchronization (adjusting) screw of the remote control loose (located at center of tail gate).	<b>NOTE:</b> This condition can be determined by trying to unlock the upper locks. Only the upper left hand hinge lock will unlock. (A) With gate fully closed, remove the tail gate inner panel cover, water deflector and right hand access hole cover. (B) After removing these parts, reach through the access hole and carefully, so as not to bend, pull the upper right hor-

9-32 TAIL GATE

CONDITION	APPARENT CAUSE	CORRECTION
		<p>horizontal lock rod towards the centerline of the body while simultaneously pulling gate handle. Open to gate position.</p> <p>(C) Synchronize locks as outlined in lock synchronization procedure.</p> <p>(D) Make lock synchronization check.</p>
	4. Horizontal lock rods and/or vertical rod from center handle to remote control not installed and/or attached.	<p>(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 as previously described. NOTE: Rod attachment must be made with gate fully closed.</p>
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.	<p>(A) Follow procedure outlined in Condition 1, Solution "A and "B".</p>
	2. Upper right hand striker too far rearward. (Gate out-of-flush and/or chucks at right upper corner).	<p>(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.</p>
	3. Upper left hand hinge lock not locked.	<p>(A) Check for unlocked upper left hand lock by pulling on corner of gate (gate will chuck if unlocked).</p> <p>(B) Open gate and slam hard to lock.</p> <p>(C) If the lock is still unlocked, the gate side upper left hinge and lock assembly will have to be adjusted forward as outlined under adjustment of left upper hinge and lock assembly.</p>
	4. Cable from door handle to upper right hand lock detached.	<p>(A) Check for loose cable by opening the gate and pulling on door handle. If the handle opens easily to approximately 90 degrees 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. (Refer</p>

CONDITION	APPARENT CAUSE	CORRECTION
		to inside handle and cable assembly door operation).
	5. Rod from upper right hand lock to lower right hand lock detached.	<p>(A) Determine if rod is detached by visual inspection. If unattached:</p> <ol style="list-style-type: none"> <li>1. Open tail gate as a gate.</li> <li>2. If rod is disconnected at upper lock, attach rod by moving the lever of the upper lock to the position of the rod.</li> </ol> <p>NOTE: DO NOT PULL UP ON THE LOCK ROD AS THIS WILL UNLOCK THE LOWER LOCK.</p> <ol style="list-style-type: none"> <li>3. If rod is disconnected at lower lock, push rod forward to engage lock lever. Hold lock lever forward while engaging rod.</li> </ol> <p>NOTE: DO NOT MOVE LOWER LOCK LEVER REARWARD AS THIS WILL UNLOCK LOWER LOCK AND DROP GATE ON BUMPER.</p> <ol style="list-style-type: none"> <li>4. Be sure the lower lock is fully locked by pulling it against the striker.</li> <li>5. Tighten the set screw in the upper lock (right hand thread).</li> <li>6. Make lock synchronization check.</li> </ol>
3. With door open and center handle is pulled, gate unlocks (upper left hand hinge and lock assembly).	1. Right hand lock synchronization screw loose.	<ol style="list-style-type: none"> <li>1. Synchronize both right hand locks as specified in lock synchronization procedure.</li> <li>2. If loose, follow procedure outlined above in 2-5 (A).</li> </ol>
	2. Improper synchronization of upper locks.	(A) Refer to lock synchronization procedure
	3. Bent upper horizontal lock rods (caused by using rods to unlock gate).	(A) Replace rod and re-synchronize locks as outlined in lock synchronization procedure.
4. With gate open and door handle is pulled, lower right lock unlocks.	1. Improper synchronization of upper locks (loose set screw).	(A) Synchronize locks by following procedure outlined in lock synchronization procedure.
	2. Bent vertical lock rod (caused by using rod to unlock door).	(A) Replace rod and re-synchronize locks by following lock synchronization procedure.
	3. Improper synchronization of right hand locks.	(A) Synchronize locks as outlined in lock synchronization procedure.

CONDITION	APPARENT CAUSE	CORRECTION
5. Tail gate window will not raise.	1. Tail gate window cut-out 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 cut-out switch as previously described.
	2. Window regulator motor inoperative.	1. Refer to "Tail Gate Window Electric Regulator Motor Assembly Removal."

## 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. 9-42.

### 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.

**CAUTION:** 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 9-43. 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.

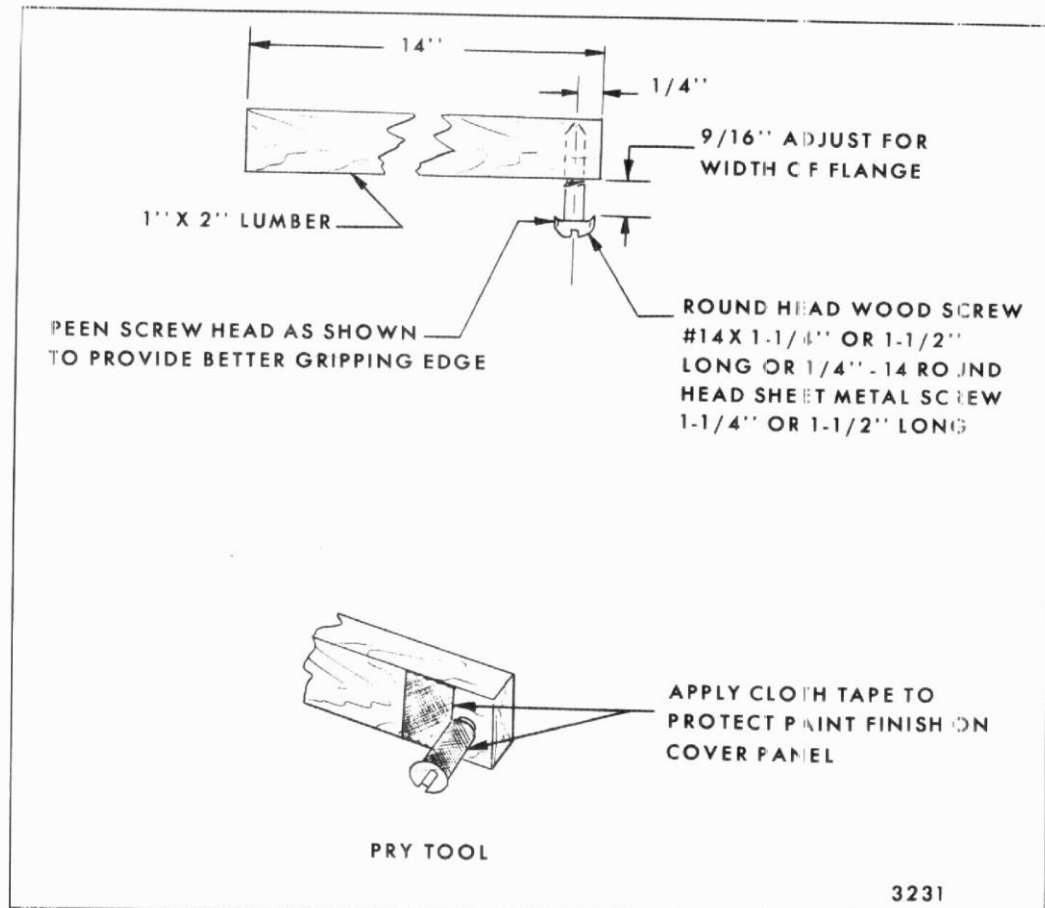


Fig. 9-42-Pry Tool Fabrication

**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. 9-42), No. 2 cross-recess screw driver, No. 2 cross-recess miniature ratchet or off-set screw driver, No. 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 No. 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 9-43, start at right side (passenger's side) of tail gate inner cover panel and carefully pry upper flange of inner cover panel up and forward of projections on tail gate inner panel.

**CAUTION:** 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

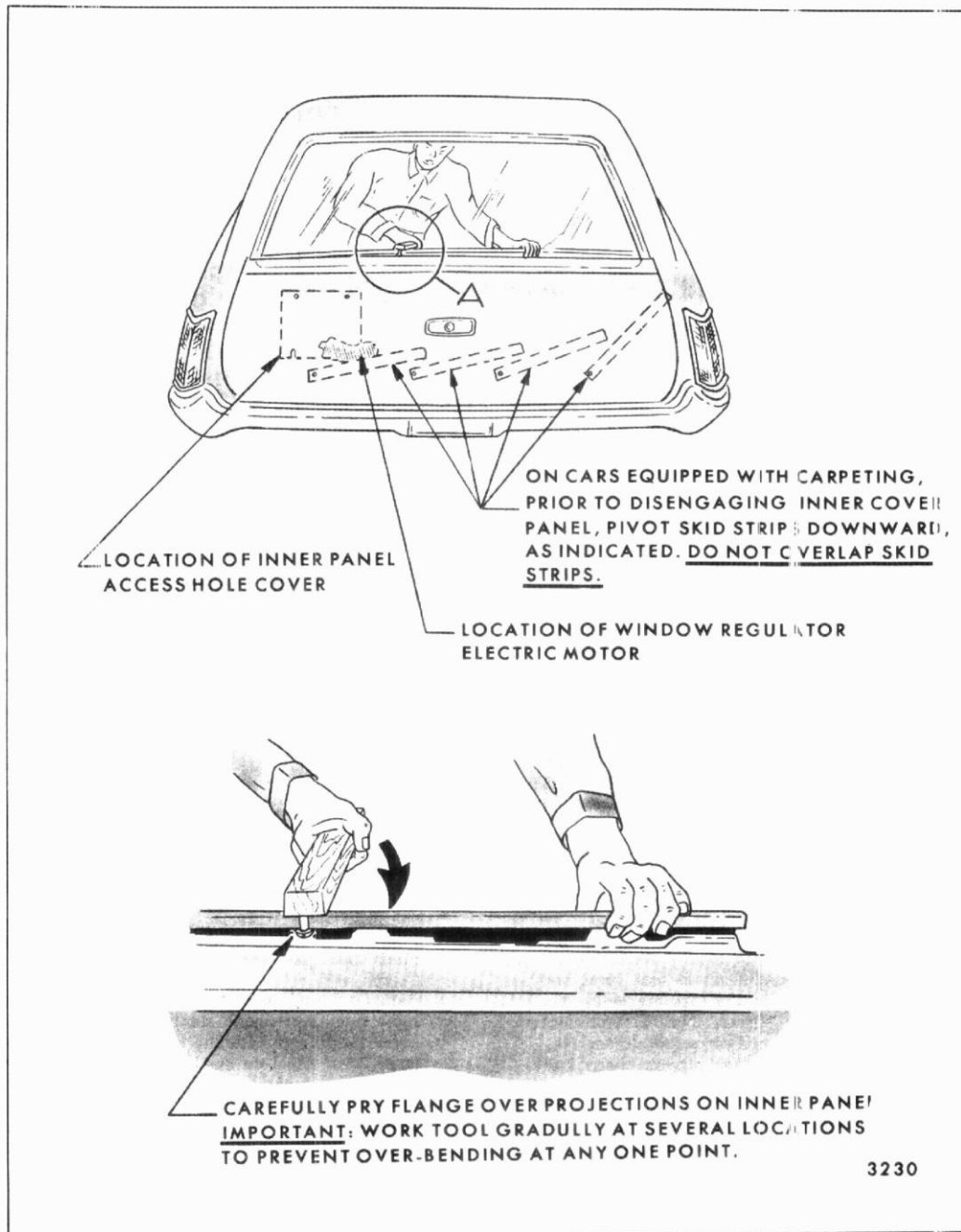


Fig. 9-43-Inner Panel Cover Removal



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 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 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. 9-44). 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.

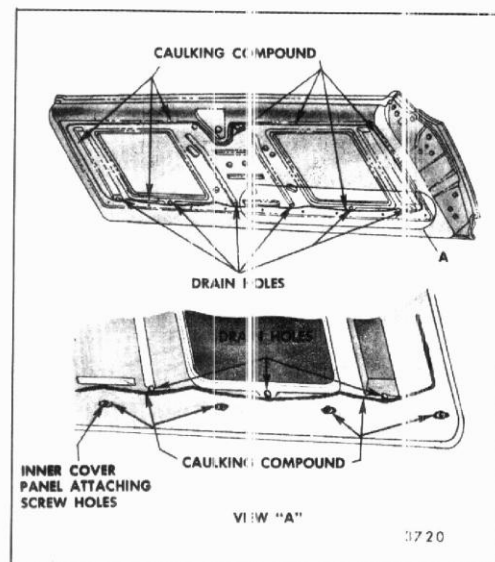


Fig. 9-44-Tail Gate Sealing

## 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. 9-45).
3. To install, reverse removal procedure.

## 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. 9-46 and 9-47).
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.

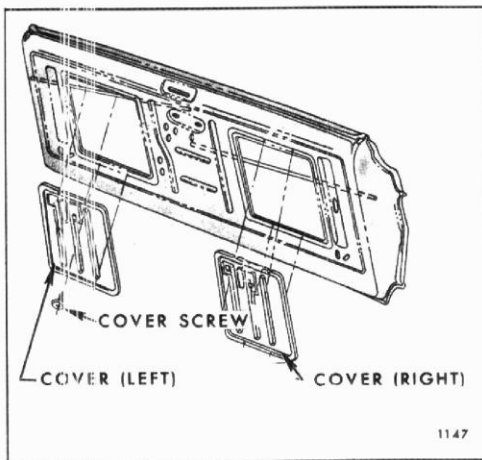


Fig. 9-45-Tail Gate Inner Panel Access Hole Cover

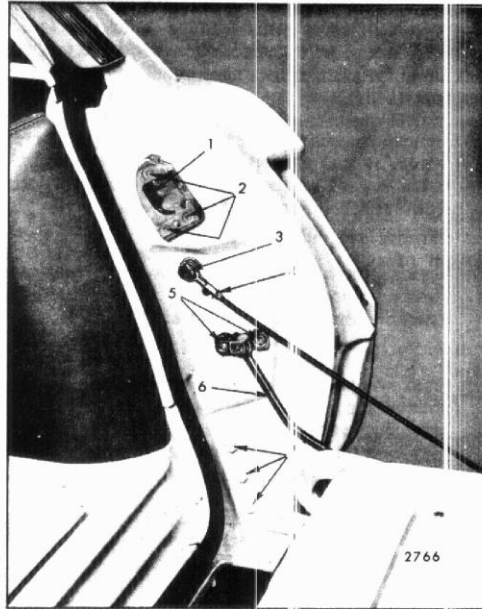


Fig. 9-46-Tail Gate Torque Rod, Hinge and Support Attachments

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

## 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. 9-46 and 9-47).
3. To install, reverse removal procedure.

## TAIL GATE ASSEMBLY

The basic hardware of all station wagon singel acting tail gates is similar, regardless of style. Figure 9-48 illustrates all hardware components for gates equipped with both manually and electrically operated windows.

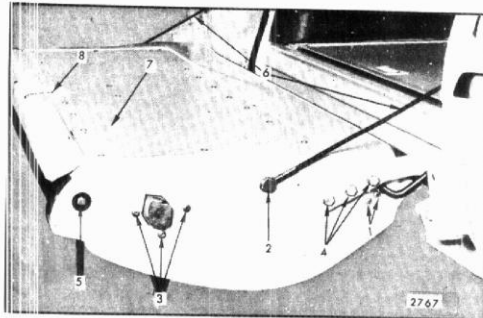


Fig. 9-47-Tail Gate Hardware - Right Side

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

#### 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.

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. 9-46 and 9-47).
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. 9-49.

**NOTE:** On styles equipped with power operating tail gate windows, engage jamb switch (Fig. 9-50) 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.
4. Pull window straight out to remove from tail gate.
5. To install, reverse removal procedure.

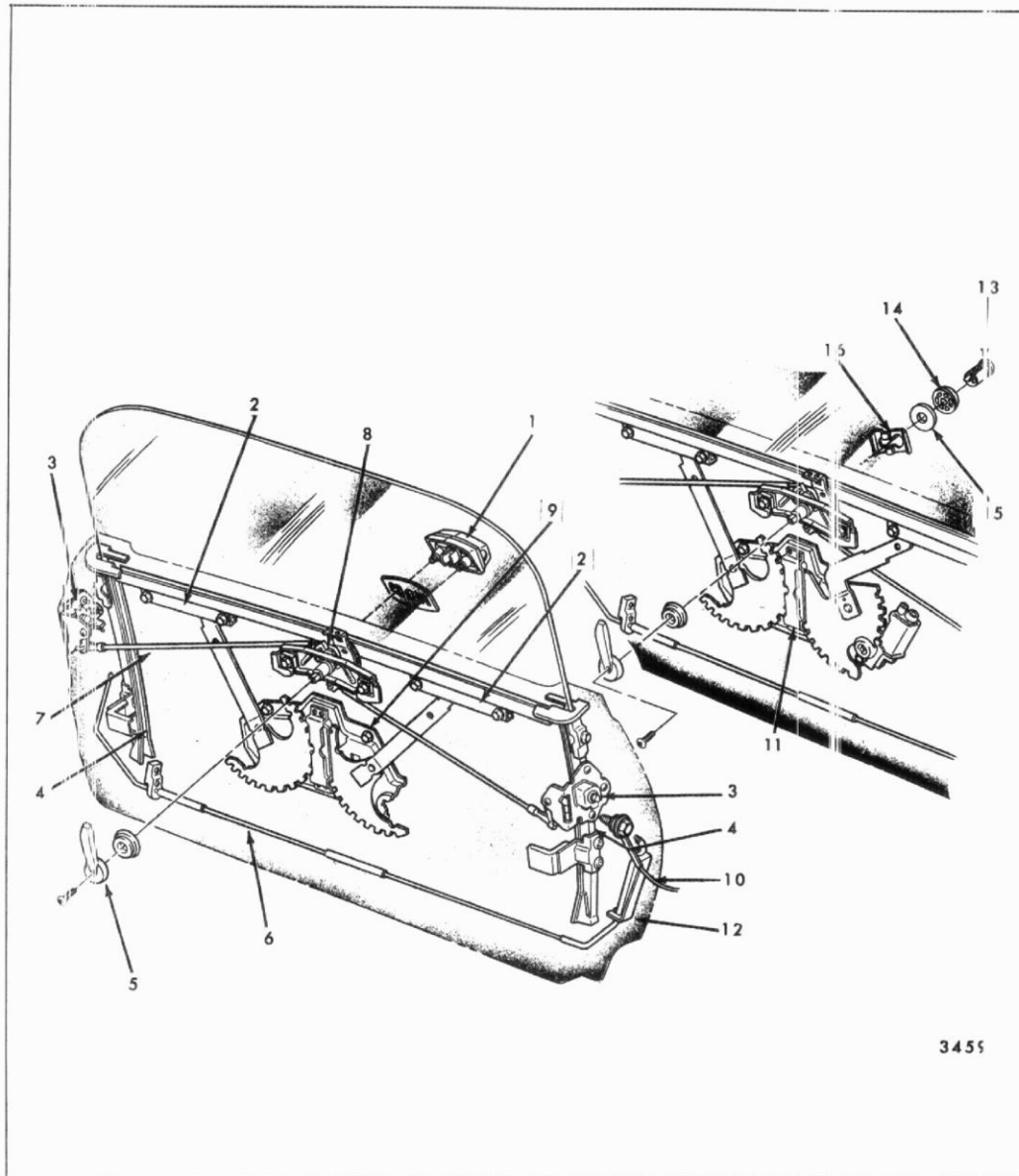
#### Adjustments

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.



3455

Fig. 9-48-Tail Gate Hardware - Single Acting

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

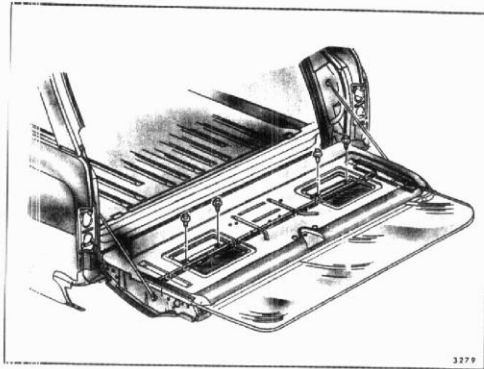


Fig. 9-49-Tail Gate Inner Cam Adjustments

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.

#### TAIL GATE WINDOW ELECTRIC REGULATOR MOTOR ASSEMBLY

##### Removal

1. Open tail gate and remove tail gate inner cover panel.

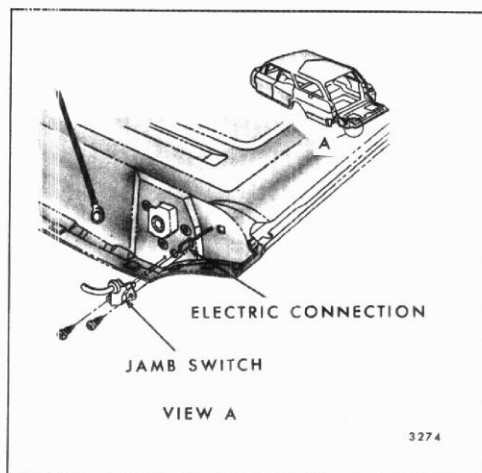


Fig. 9-50-Tail Gate Jamb Switch

2. Detach inner panel water deflector and remove inner panel right access hole cover.
3. Disconnect wire harness connector from motor.

**CAUTION:** 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. 9-51). **DO NOT** drill hole closer than 1/2" to edge of sector gear or back plate. Install a pan head sheet metal tapping screw (No. 10-12 x 1/8) 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.

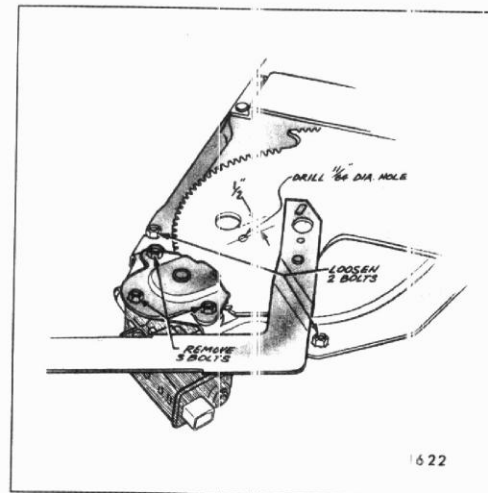


Fig. 9-51-Tail Gate Regulator Motor Assembly

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. 9-52). 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. 9-53).

4. To install, reverse removal procedure.

#### 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.

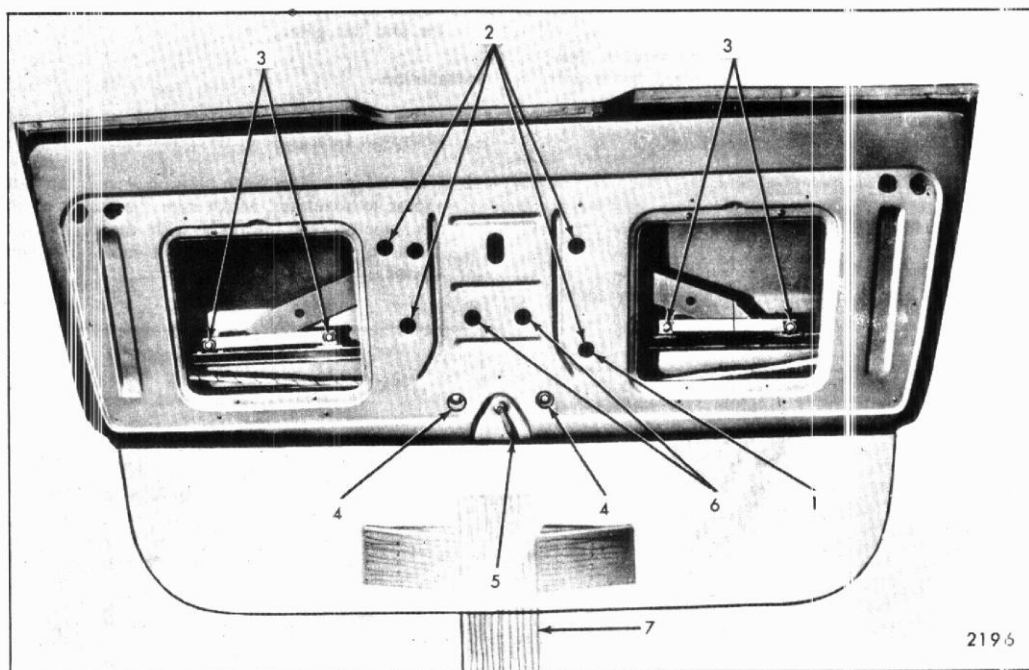


Fig. 9-52-Tail Gate Window Hardware

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

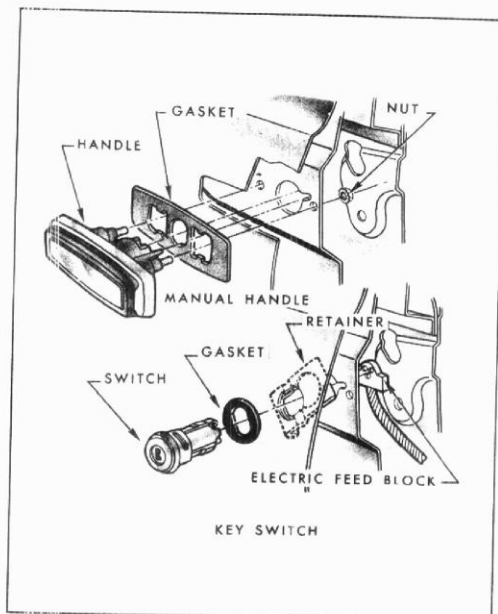


Fig. 9-53-Tail Gate Outside Handle Assemblies

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. 9-54).
2. To install, reverse removal procedure.

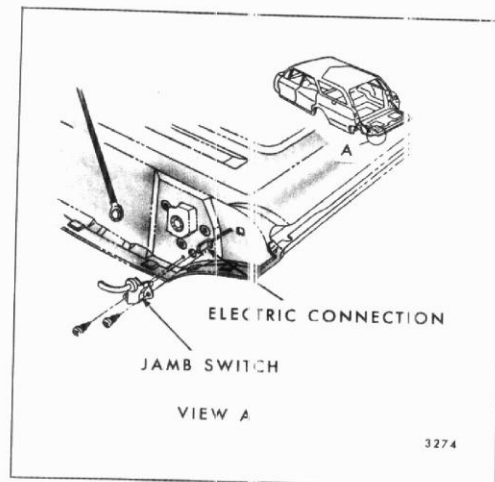


Fig. 9-54-Tail Gate Jamb Switch

#### 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. 9-55).



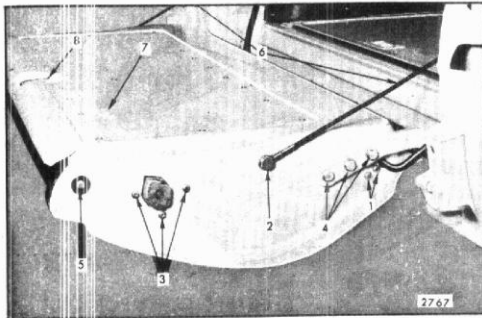


Fig. 9-55-Tail Gate Hardware - Right Side

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

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

5. To install, reverse removal procedure.

### 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 (Fig. 9-56), making certain screws are torqued to 36-45 foot pounds.

**NOTE:** THIS LOCK STRIKER IS AN IMPORTANT ATTACHING PART IN THAT IT COULD AFFECT THE PERFORMANCE OF VITAL COMPONENTS AND SYSTEMS, AND/OR COULD RESULT IN MAJOR REPAIR EXPENSE. IT MUST BE REPLACED WITH ONE OF THE SAME PART NUMBER OR WITH AN EQUIVALENT PART IF REPLACEMENT BECOMES NECESSARY. DO NOT USE A REPLACEMENT PART OF LESSER QUALITY OR SUBSTITUTE DESIGN.

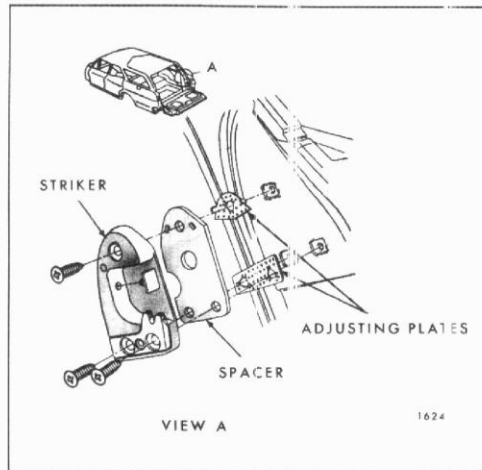


Fig. 9-56-Tail Gate Striker Assembly

TORQUE VALUES MUST BE USED AS SPECIFIED DURING REASSEMBLY TO ASSURE PROPER RETENTION OF THIS PART.

### 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.
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 9-58.

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 shown in Fig. 9-57. Be certain that zinc or cadmium-plated flat-head cross-recess screw with counter sunk washer is used.

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)

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Fig. 9-57-Tail Gate Lock Striker Service Spacers

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

### 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. 9-59).
2. Remove torque rod bearing plate (Fig. 9-55).

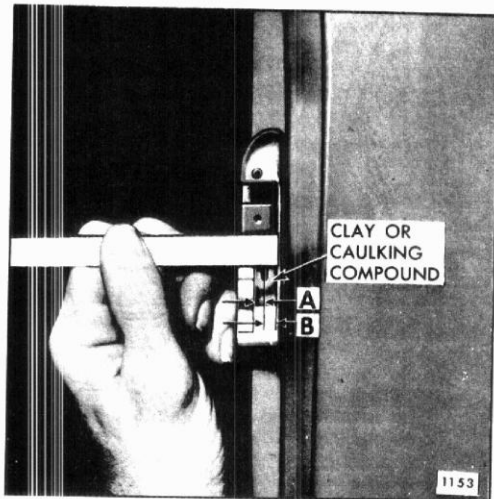


Fig. 9-58-Tail Gate Lock Striker Caulking Check

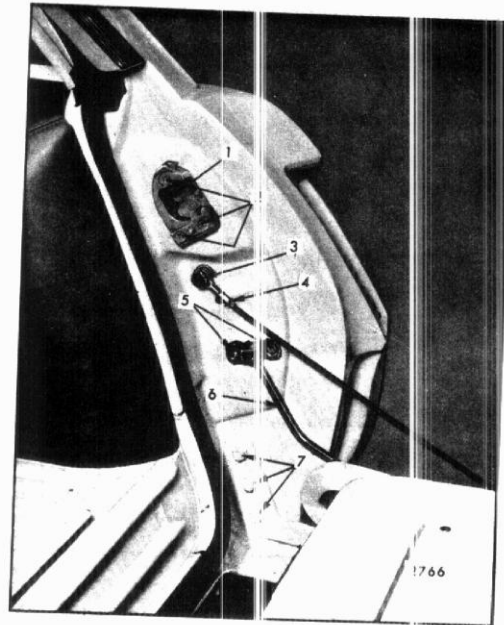


Fig. 9-59-Tail Gate Torque Rod, Hinge and Support Attachments

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
3. Disengage torque rod from tail gate inner panel retainer (See Fig. 9-60).
  4. Remove torque rod silencer (rubber) from torque rod, and work torque rod out through glass loading hole.

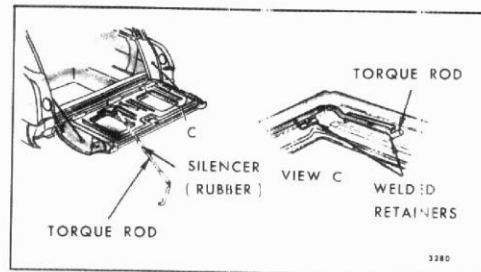


Fig. 9-60-Tail Gate Torque Rod Assembly

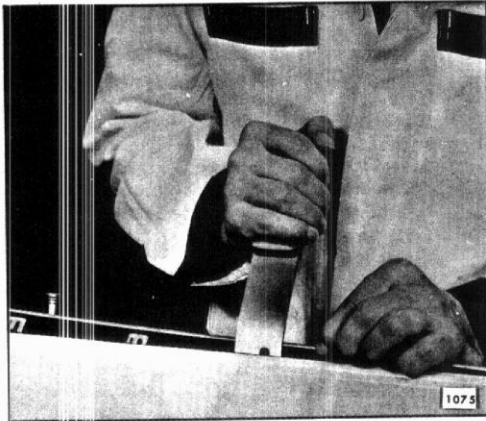


Fig. 9-61-Tail Gate Strip Assembly Removal

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 strip assemblies. To install, reverse removal procedure (See Fig. 9-51).

### 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.

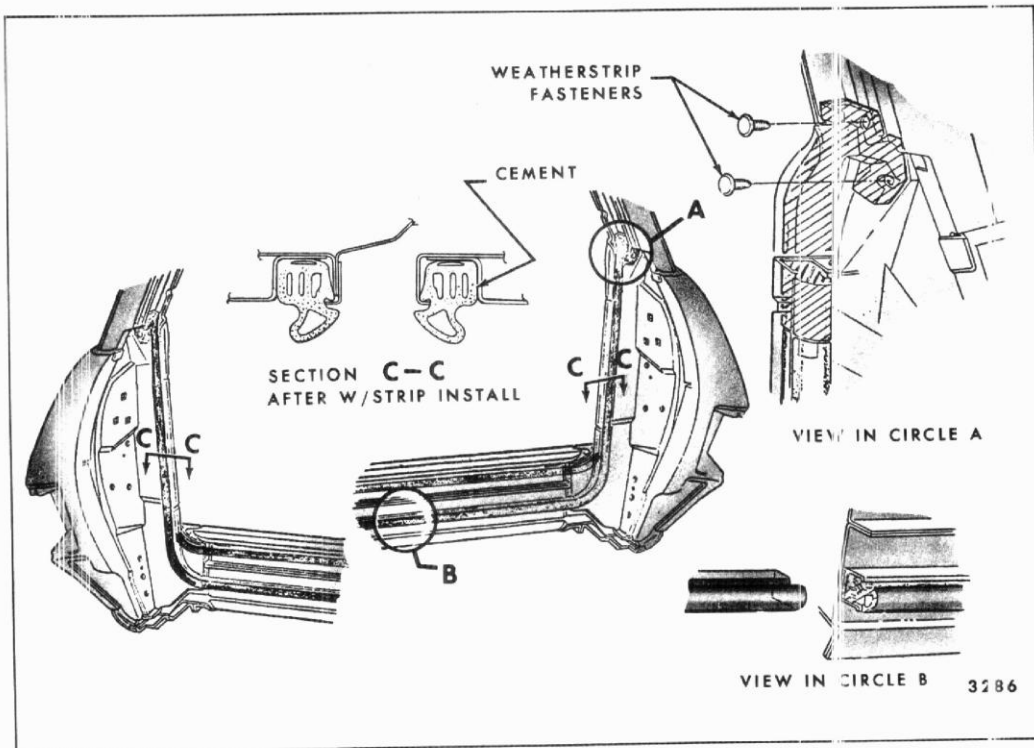


Fig. 9-62-Tail Gate Weatherstrip Installation

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").

## 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. 9-62).
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.

2. Once run channel has been removed, the retainer attaching screws are exposed. (See Fig. 9-63) 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.

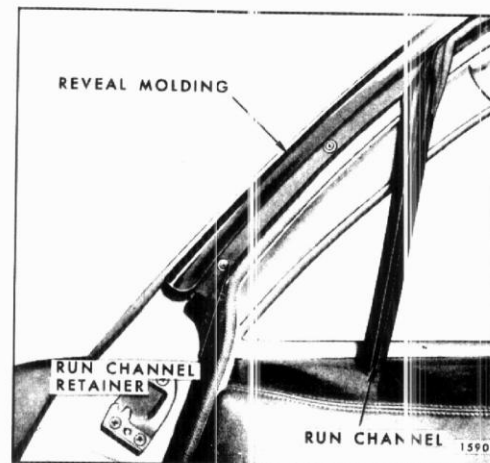


Fig. 9-63-Tail Gate Upper Glass Run Channel Retention