

SHEET METAL—DOORS

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VALIANT

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SERVICE PROCEDURES

FRESH AIR DUCTS (Fig. 1)

Vehicles equipped with a heater include the right side duct in the heater housing. Vehicles without a heater have a separate duct assembly for the right side. The left side duct assembly is the same for all models.

Without Heater

The fresh air duct assemblies are attached to the plenum opening. The right duct is retained by two hook type rods positioned over the plenum opening flange and held to brackets on the base of the duct with screws (Fig. 1).

The left duct assembly is attached directly to the plenum by positioning the duct over the plenum weld studs and securing with nuts.

With Heater

The right duct, part of the heater housing, is attached to the plenum with a single hook type rod positioned over the plenum flange and secured to the duct base with a screw (Fig. 1).

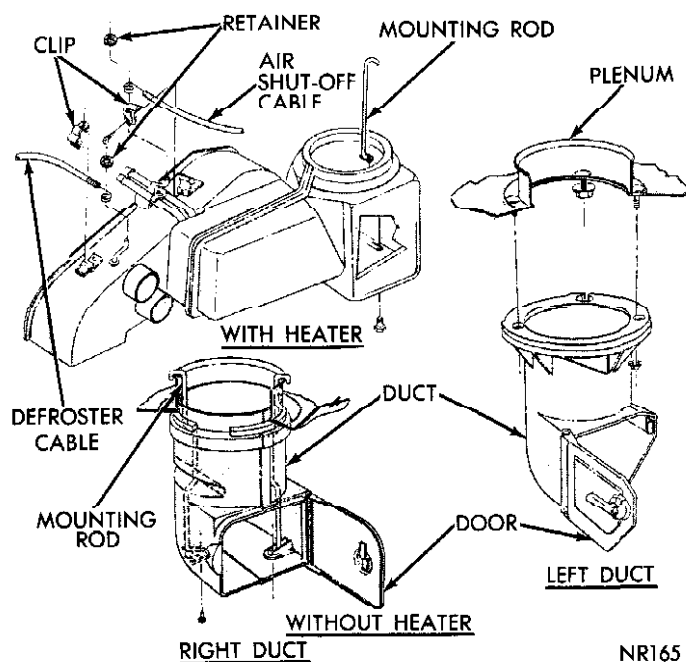


Fig. 1—Fresh Air Duct

HOOD

ALIGNMENT

Prior to making any hood adjustment, inspect clearances and alignment of hood sides in relation to cowl, fenders and grille. The cowl adjustment must be made first.

REPLACEMENT

Removal

- (1) Place a protective covering over cowl and fender area.
- (2) Mark outline of hinges on hood to aid in installation.
- (3) With an assistant, remove hinge-to-hood bolts (Fig. 2) and remove hood assembly. **Use extreme care not to permit hood to slide rearward and damage painted surfaces of the cowl and fender areas.**

Installation

- (1) With an assistant, position hood on hinges and install hinge to hood bolts. Do not tighten.
- (2) Align scribe markings on hood with hinge and tighten screws lightly.
- (3) Close hood and inspect alignment.
- (4) Adjust alignment (Figs. 2 and 3) as necessary and tighten hood to hinge bolts 180 inch-pounds.
- (5) Remove protective covering from cowl and fender area.

To adjust the lock (Fig. 4) loosen the attaching screws and raise or lower until the correct adjustment has been obtained. After making any adjustment that requires a shifting of the hood, always inspect the hood striker and the lock plate assembly for alignment.

TORSION BAR REPLACEMENT

- (1) Disengage the torsion bar roller (Fig. 5) from its seat on hood hinge by forcing the roller end of bar to the rear and raising hood fully.
- (2) Disengage left hand torsion bar roller from hood hinge.
- (3) Remove hood assembly.
- (4) Remove torsion bars from center support and

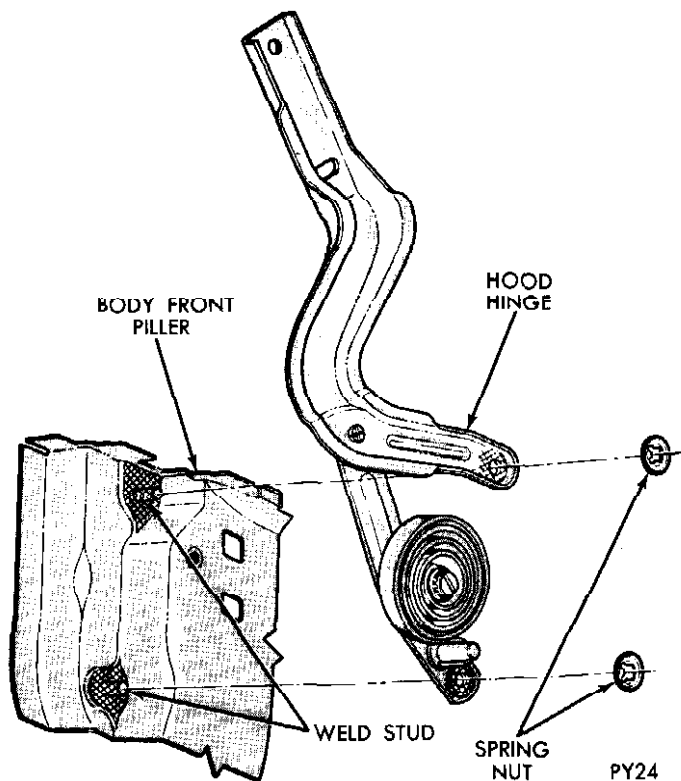


Fig. 2—Hood Adjustment

remove bars from end reinforcements.

(5) Lubricate torsion bar rollers and install on hinges.

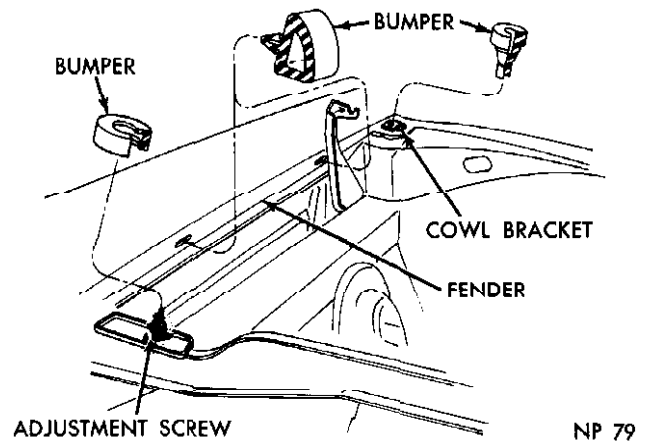


Fig. 3—Hood Leveling Adjustment

(6) Install hood assembly and adjust alignment.

HINGE REPLACEMENT

- (1) Disengage torsion bar roller from hood hinge.
- (2) Scribe hinge location on hood and remove hinge to hood screws.
- (3) Support hood at hinge area.
- (4) Remove hinge stud spring nuts from studs (Fig. 2) and remove hinge.
- (5) Lubricate hinge stud areas with lubriplate and position hinge on studs.
- (6) Using a socket with putty placed on end, position a new spring nut on putty and position on stud.

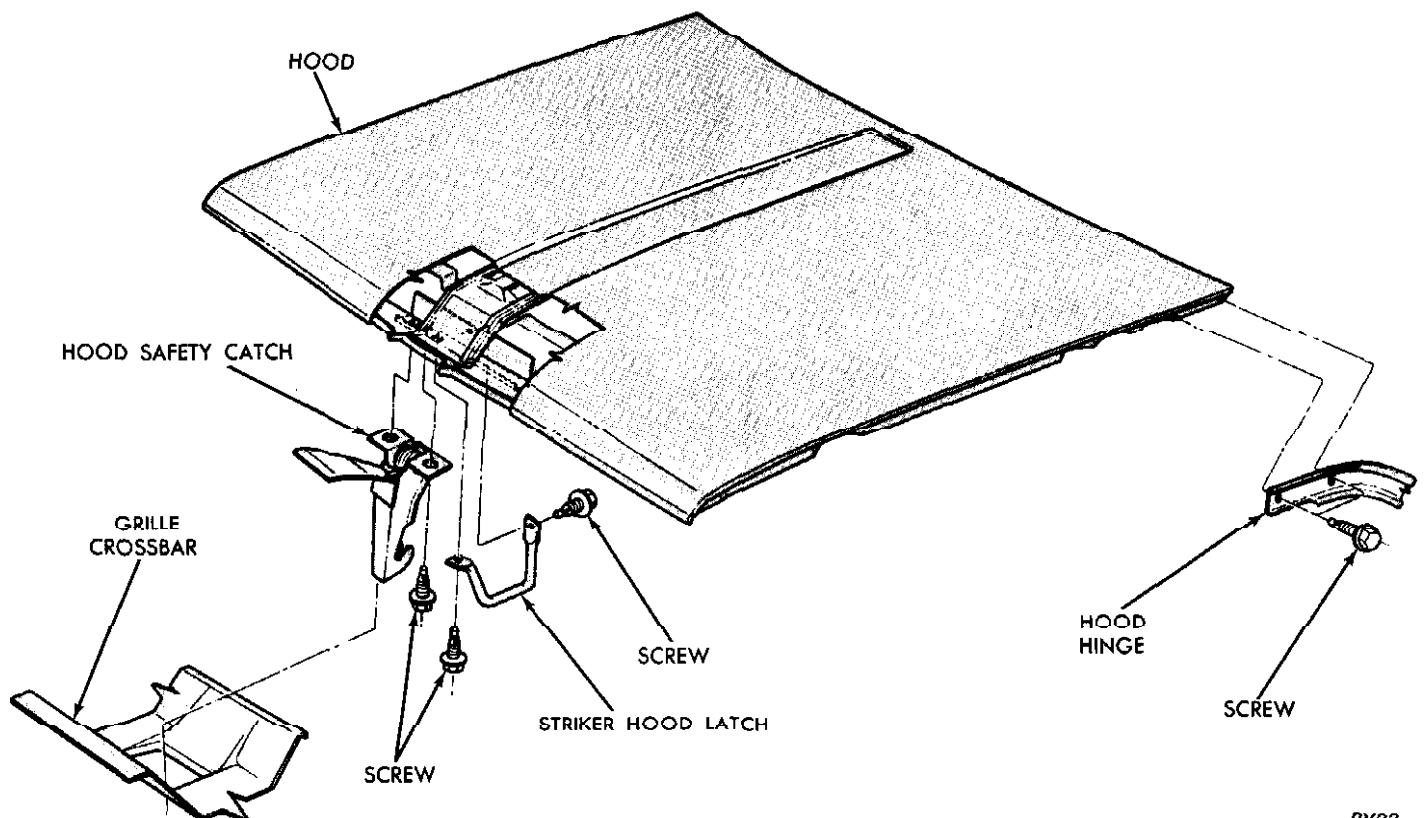
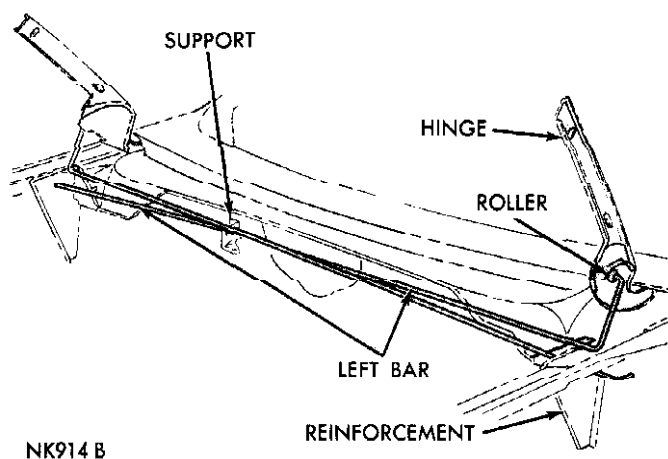


Fig. 4—Hood Latch and Release Handles



NK914 B

Fig. 5—Hood Tension Bars

Press spring nuts on studs using a screw driver.

(7) Remove hood support and position hinge on hood.

(8) Install hinge to hood screws and tighten to 180 inch-pounds after alignment has been accomplished.

(9) Engage tension bar roller with hood hinge.

FENDERS

ALIGNMENT

The fender should be adjusted to provide for equal

spacing at the cowl, door front edge and door panel top edge. Alignment should be made at bottom of floor sill panel, front of hood and door outer panel upper edge.

REPLACEMENT

Removal

(1) Disconnect battery ground strap.

(2) Tape leading edge of front door and cowl to fender area to avoid damaging paint.

(3) Remove front bumper assembly.

(4) Disconnect head lamp wires and remove nuts attaching grille extension to fender.

(5) Remove nuts and screws attaching fender to cowl, floor sill, wheelhouse or splash shields and radiator yoke (Fig. 6).

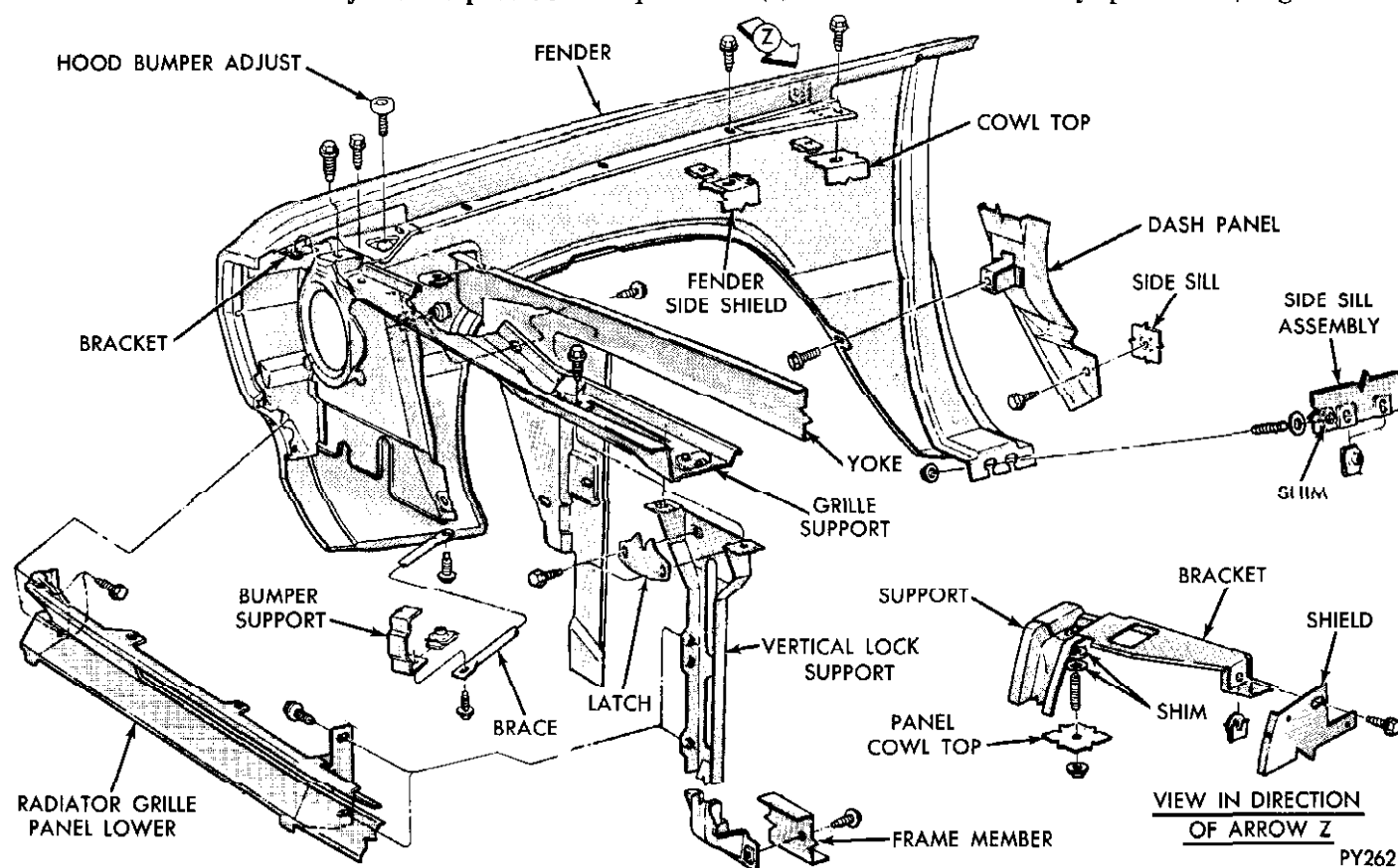
(6) Remove fender assembly and if necessary remove fender mouldings, ornamentation and head light assemblies.

Installation

(1) Install head lamps, mouldings and ornamentation if removed.

(2) Carefully position fender on studs at cowl side area and align fender with mounting holes in radiator yoke. Install all mounting screws and retainer nuts.

(3) With fender correctly positioned, tighten all

**Fig. 6—Fender Attachment**

screws and nuts securely making certain fender is aligned at cowl and hood areas.

(4) Connect head lamp wires and install grille to fender nuts. Connect the battery ground strap.

FENDER SIDE REFLECTOR

The fender side reflector and bezel assemblies is attached to a recessed area with sealing type nuts (Fig. 7).

AIR SHIELD AND CROSS BAR

Refer to (Fig. 8) for air shield and cross bar attaching points.

BUMPERS

ATTACHMENT

Refer to (Figs. 9 and 10) for bumper attaching points.

RADIATOR YOKE SUPPORT

REPLACEMENT

Removal

- (1) Drain radiator and remove hoses from radiator.
- (2) Remove radiator attaching screws and radiator.
- (3) Remove hood lock striker bar, horn and headlamp wiring from yoke support.
- (4) From under the fenders remove the wheelhouse to yoke support attaching screws.
- (5) Remove support to frame attaching screws and remove radiator yoke support from engine compartment.

Installation

- (1) Position yoke support into the engine compartment. Install the frame to core support screws finger tight.

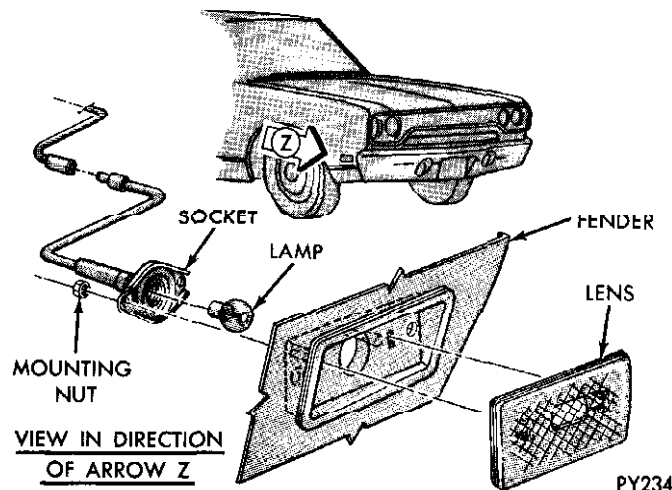


Fig. 7—Fender Side Reflector Lamp

(2) From under the fenders, install splash shield to yoke support screws finger tight only.

(3) When all attaching screws have been installed, tighten progressively.

(4) Attach the horn and lamp wires to the yoke support with the plastic straps.

(5) Install radiator, hoses, fill cooling system and inspect for leaks.

GRILLE

ALIGNMENT AND REPLACEMENT

Refer to (Fig. 11) for grille attaching points. Align grille to frame opening. The grille must be held against the front face of the fenders at the outer edges to avoid stressing or fracturing. Caution should be used in protecting textured grilles from high temperature during repairs.

DOORS

The service procedures for internal door components do not include obvious operations, such as removing door or quarter panel trim panels, testing operation of windows or inspecting glass fit after adjustments or replacement have been performed.

ALIGNMENT

Up and Down

Adjustment of the door can be made at either the pillar or door hinge halves (Fig. 12).

Fore and Aft

Adjustment is made at the door hinge half. Adjust

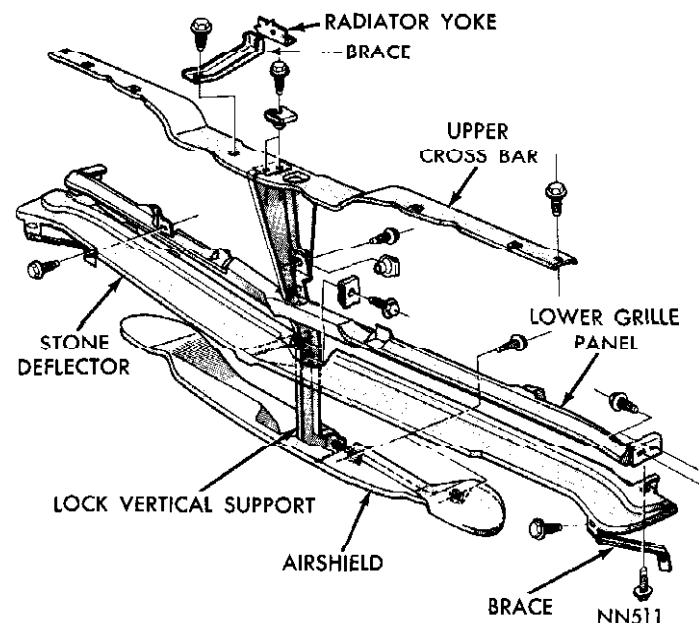
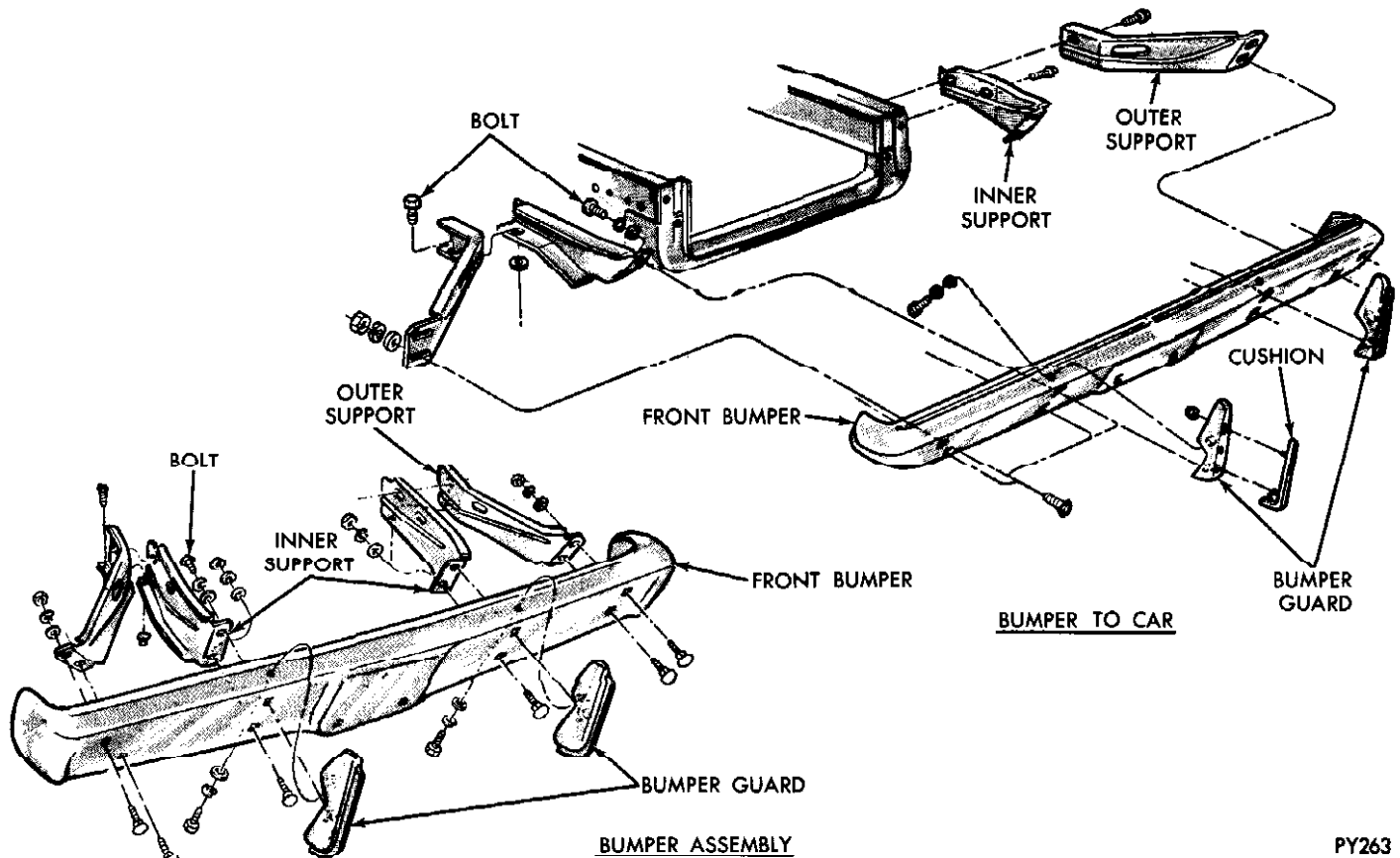


Fig. 8—Air Shield And Crossbar



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Fig. 9—Front Bumper Application

only one hinge at a time. Raising outer end of door moves upper part of door forward, when in closed position. Lowering lower part of door moves lower part forward, when in closed position.

In and Out

Adjustment is made at the pillar hinge half. **Adjust only one hinge at a time.** Raising outer end of door, moves upper part of door into door opening. Lowering outer end of door, moves lower part of door into door opening.

LATCH AND STRIKER PIN

The front door cannot be locked until the door is completely closed. The silent type door latch (Fig. 13) features a rubber isolation of the round striker pin on the door frame and those surfaces acting as stops inside the latch. The latch assembly is built into a sheet metal pocket on the door face. The striker pin is attached by a single screw which also allows for adjusting.

DOOR REPLACEMENT

Front Door (All Models)

Removal

- (1) With door in wide open position, place a jack,

with a block of wood or pad on lifting plate of jack, as near hinge as possible. (This will hold weight of door as hinge bolts are loosened.)

- (2) Remove door interior trim and hardware.
- (3) Scribe a line around upper and lower hinge plates on door panel.
- (4) Remove hinge attaching screws from door and remove door for further disassembly if necessary.

Installation

- (1) With door inner hardware installed, place door in position in door opening, supported by a padded jack.
- (2) Locate door hinge plates on door panel and install hinge attaching screws finger tight only.
- (3) Adjust jack to align hinge plate scribe marks and tighten attaching screws.
- (4) Complete door aligning procedure, and install door interior trim and hardware.

REAR DOOR (All Models)

Removal

- (1) Open rear door and place a padded jack under door near the hinges.
- (2) Remove door interior trim and hardware.
- (3) Scribe aligning marks around hinge plates on door frame.

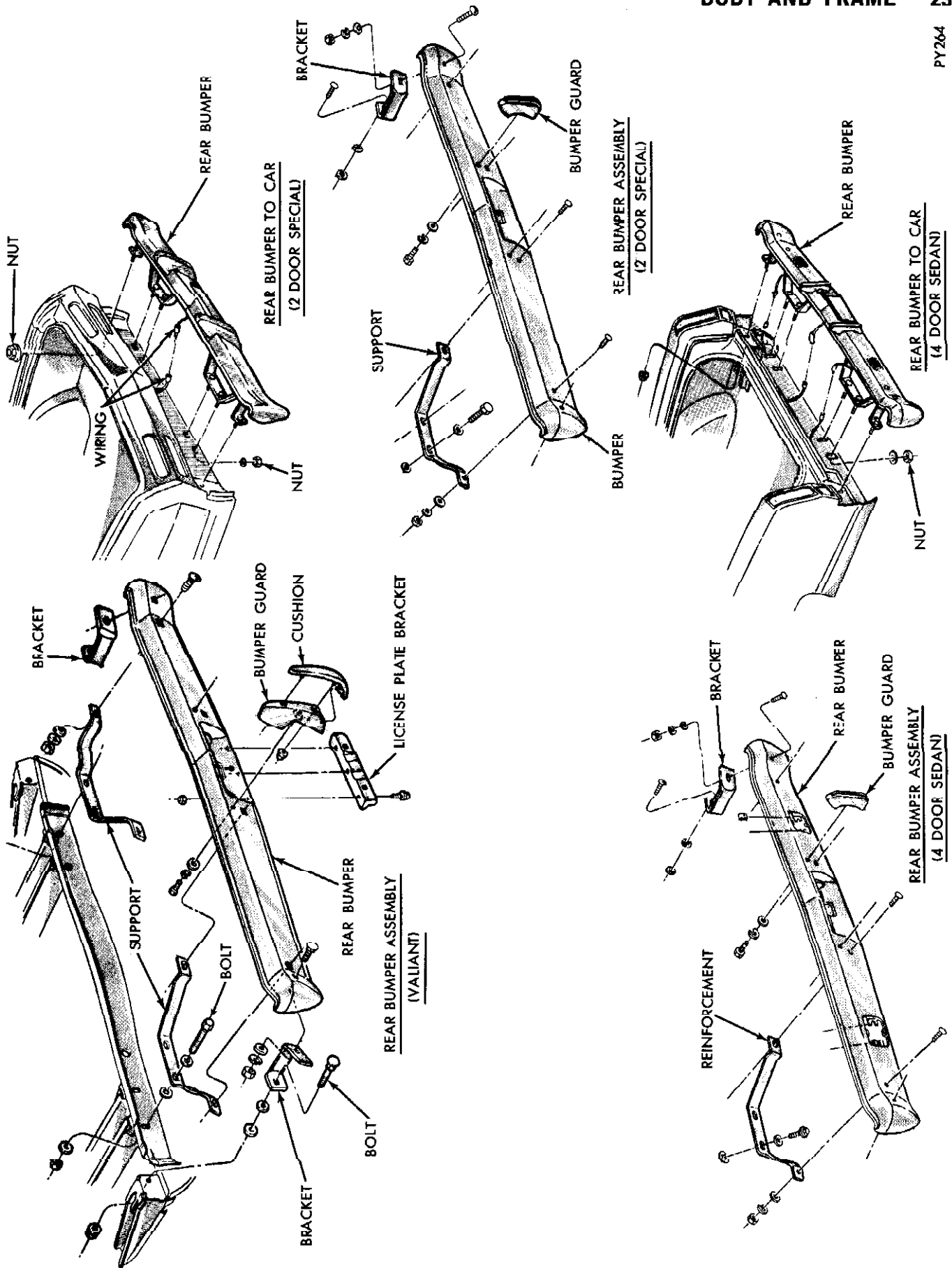
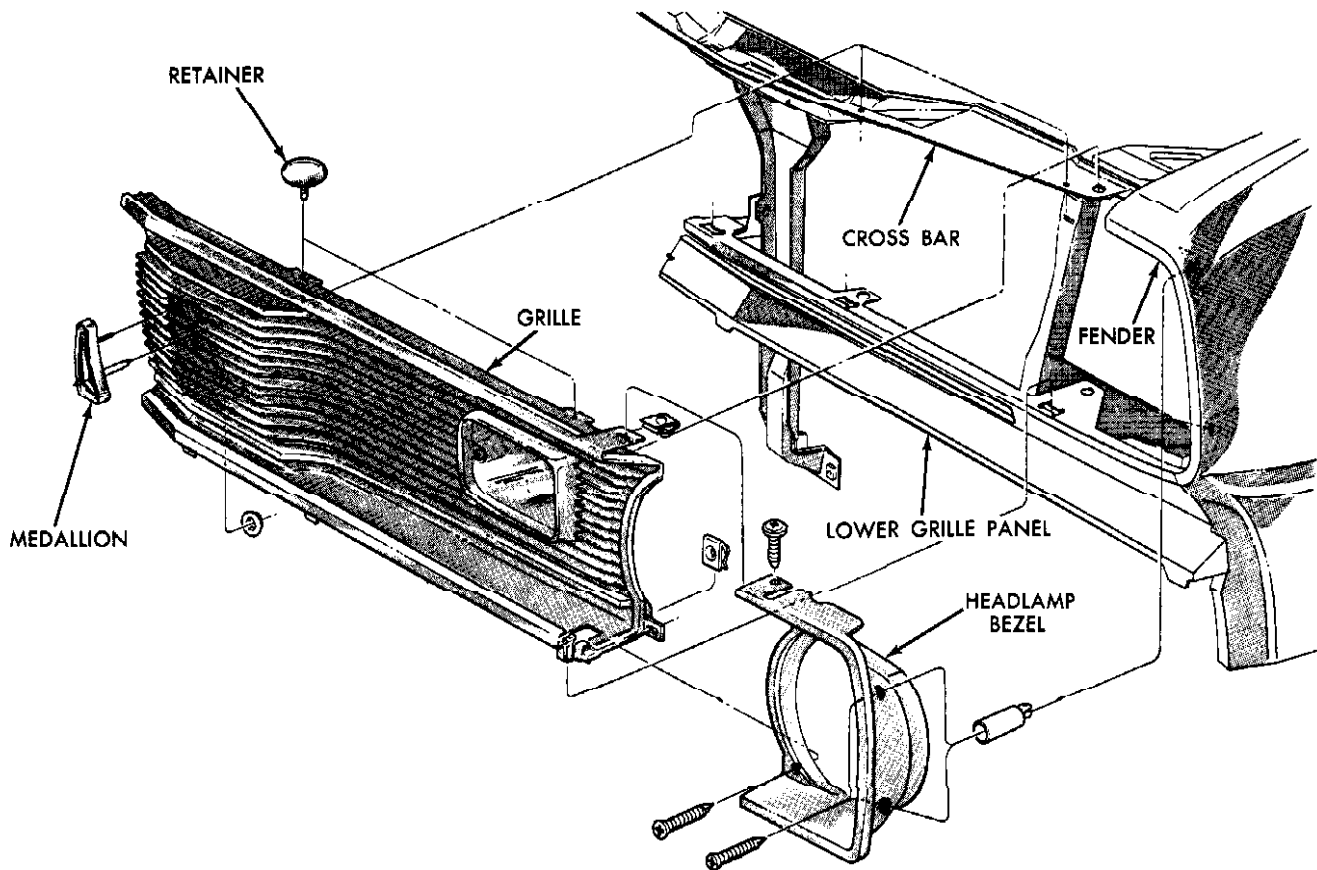


Fig. 10—Rear Bumper Application



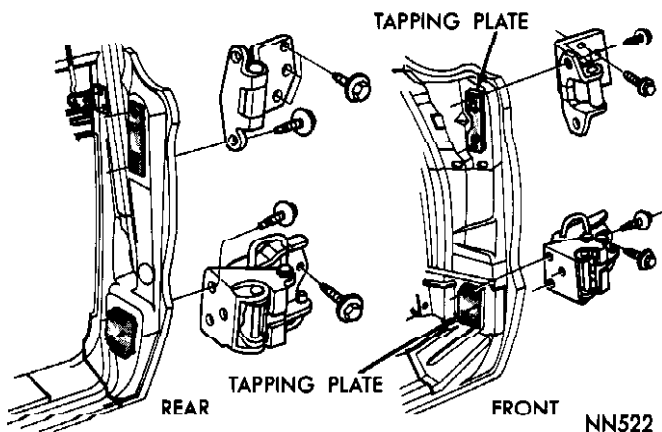
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Fig. 11—Grille Assembly

(4) Remove hinge attaching screws from door and remove door from body.

Installation

- (1) With rear door inner hardware installed, support door on a padded jack and position door on hinges.
- (2) Install attaching bolts finger tight.
- (3) Align hinges with scribe marks.
- (4) Tighten attaching screws and test door for alignment.

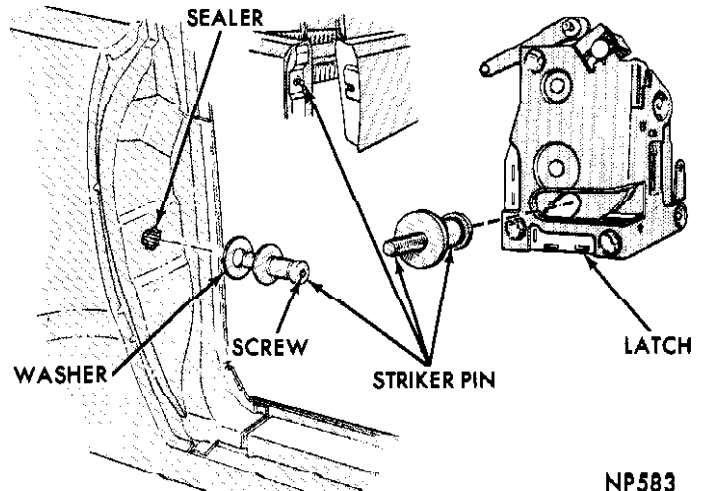

Fig. 12—Door Hinge Attachment

(5) Install door interior trim and hardware.

HINGE REPLACEMENT

The door hinges (Fig. 12) are attached to the doors by screws accessible from outside. The front door hinges are each attached to the "A" post by three screws.

The rear door upper hinges are attached to the "B" post by three screws accessible through an access hole in the "B" post.


Fig. 13—Latch and Striker Pin

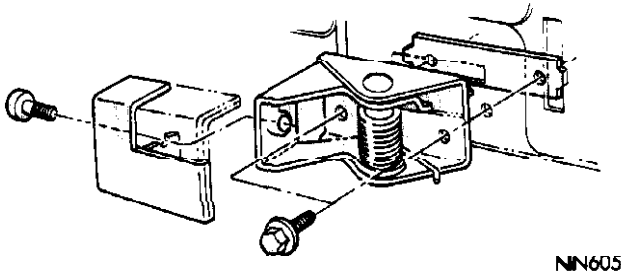


Fig. 14—Remote Control Handle

INSIDE HANDLES

Window Regulator Handle

The window regulator handles are retained on the shaft with an Allen set screw. The handles should be positioned on the shaft approximately in a horizontal position with the knobs facing rearward.

Remote Control Handle

The remote control handle (Fig. 14) is attached to the control unit with a screw at the rear inner end.

ARM RESTS

The arm rests are retained by two metal screws inserted at the bottom of the arm rest base. The pad

and base can be separated and if necessary, the pad may be recovered.

TRIM PANELS

Replacement

- (1) Remove inside handles and arm rests.
- (2) Remove screws attaching trim panel to door inner panel.
- (3) Insert a wide blade screw driver between trim panel and door frame next to retaining clips and snap retaining clips out of door panel. Remove trim panel.
- (4) Before installing door trim panel, inspect condition of watershield.
- (5) Be certain the escutcheon spring is placed on the regulator shafts.
- (6) Align trim panel retaining clips with holes of door frame and bump into place with heel of hand.
- (7) Install trim panel to door screws.
- (8) Install escutcheon washer, handles and arm rest.

LOCK ASSEMBLY

Remote Control (Manual)

Removal

- (1) Raise door glass.

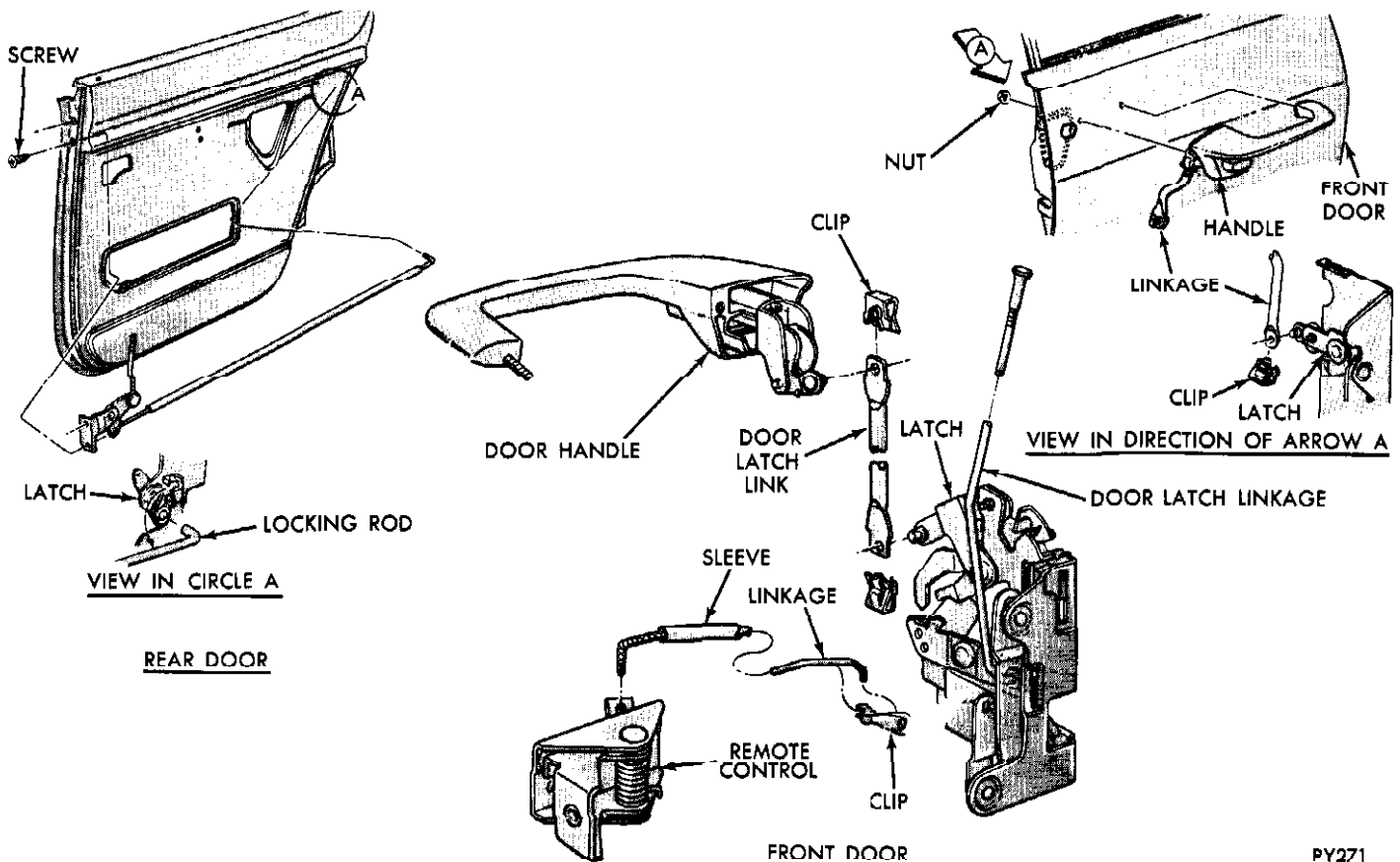


Fig. 15—Front and Rear Door Locking Mechanism

- (2) Remove screws attaching remote control base to door panel (Figs. 14 and 15).
- (3) Remove link from remote control lever.
- (4) Remove control through large opening in door.

Installation

- (1) When installing the remote control assembly, coat parts with lubriplate.
- (2) Install assembly through door opening and connect link to the control lever.
- (3) Install attaching screw and test operation of control.

LOCK REPLACEMENT

Removal

- (1) Disconnect handle to lock link (Fig. 15) from lock by pulling link outward at lock.
- (2) Disconnect locking lever rod (front door only) from lock assembly.
- (3) Disconnect locking rod link from lock.
- (4) Remove screws attaching lock assembly to door.
- (5) Rotate lock assembly and disconnect remote control link when removing lock.
- (6) Lubricate all moving points of lock assembly.

Installation

- (1) Position lock assembly in door and connect remote control link to lock lever.
- (2) Install lock retaining screws.
- (3) Connect handle to lock link.
- (4) Connect locking lever rod (front door only) to lock assembly.
- (5) Connect locking lever rod and remote control link to lock.

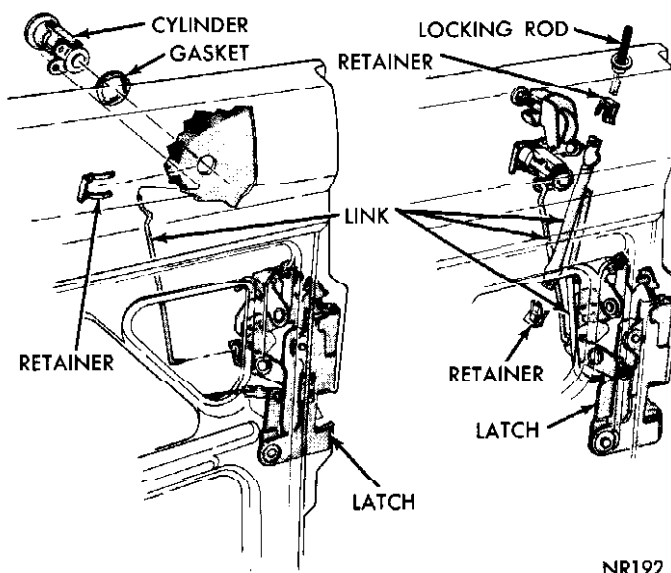
LOCK CYLINDER

Removal

- (1) With window in the up position, disconnect cylinder link (Fig. 16) from clip on lock lever (**4 door only**) and from cylinder.
- (2) On **2 door models** disconnect lock link from clip on lock lever, remove link control bracket mounting screws and remove cylinder link from cylinder.
- (3) Remove retainer from cylinder body and cylinder from door.

Installation

- (1) Position cylinder in door and install retainer on cylinder body.
- (2) Connect the cylinder link to cylinder arm and to clip on lock lever (**4 door models**).
- (3) On **2 door models** connect cylinder link to cylinder, position link bracket on door face and install attaching screws. Connect lock link to lock.



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Fig. 16—Door Lock Cylinder

OUTSIDE HANDLE—FRONT DOOR

Removal

- (1) With door glass in up position, remove door handle attaching nuts from mounting studs (Fig. 17) and link from handle to lock.
- (2) Lift handle up and remove from door.

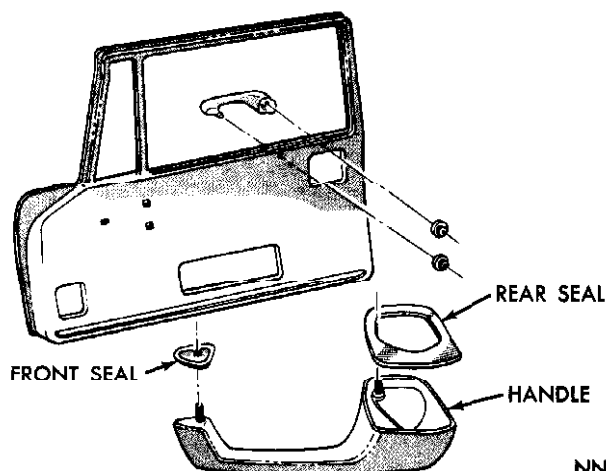
Installation

- (1) Install handle into door opening. Engage link from handle to lock.
- (2) Attach retaining nuts and test operation of the handle.

OUTSIDE HANDLE—REAR DOOR

Removal

- (1) With door open and glass in up position remove retainer from link at handle connector.
- (2) Depress outside handle release button and remove link from handle connector.



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Fig. 17—Front Door Handle

(3) Remove nuts attaching handle to door and remove handle.

Installation

- (1) Position handle in door and install mounting nuts.
- (2) Depress handle button and position link over connector on handle.
- (3) Install retainer over link and connector.

WEATHERSTRIPS AND WINDCORDS

Door Weatherstrips

Make sure all old weatherstrip particles and cement are removed before installing new weatherstrip.

Sedan Models

- (1) Apply lower half of weatherstrip, starting at hinge face at belt line, working fasteners into holes in shut face of doors.
- (2) Apply a 1/8 inch bead of cement to weatherstrip seating area on door upper and lower areas.
- (3) Install upper half of weatherstrip on door, indexing at the upper corners.
- (4) Work weatherstrip from index points to a point midway between them. Avoid puckering or stretching of weatherstrip.

All Models (Except Sedan)

- (1) Apply a coat of cement to weatherstrip contact

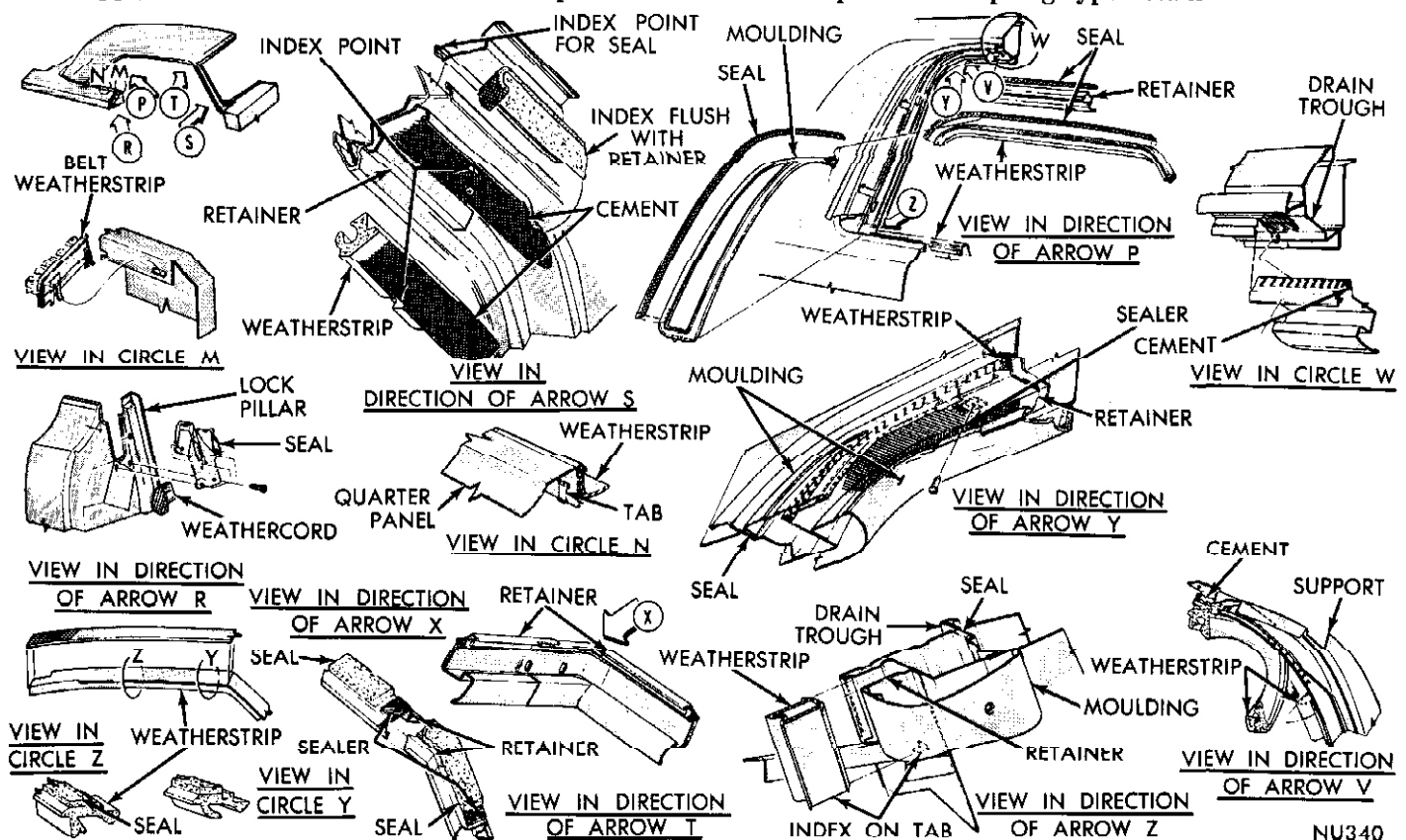


Fig. 18—Roof Rail Weatherstrip

area on vent wing, door inner and outer panels at belt line and to contact surface of weatherstrip.

(2) Position pillar seal on weatherstrip, making sure lip of weatherstrip dove tails into groove of seal and install screws.

(3) Install weatherstrip on door, indexing at top of door at belt line with two fasteners.

Roof Rail Weatherstrip

Refer to Figure 18 for the attaching points and methods of cementing.

The weatherstrip retainers are adjustable through the use of elongated attaching holes. The weatherstrip can be moved in or out for the best possible fit and seal along the top edge of the vent frame, door glass and quarter glass.

The glass up-stop must be adjusted so the fully raised glass just curls the outer lip of weatherstrip against the inner lip.

When the up-stop, roof rail weatherstrip and glass are properly adjusted, the outer lip of weatherstrip will seal along the top edge of the glass and the inner lip of weatherstrip will seal along the upper inside edge of glass.

Outer Belt Weatherstrip

The door outer belt weatherstrips are retained in the door panel with spring type retainers.

Windcords

Refer to Figure 19 for the starting points and method of attachment for the windcords.

GLASS**Ventless Glass Installation (Fig. 20)**

- (1) Install glass protector to door bottom.
- (2) Place pivot bracket on regulator.
- (3) Install sector assembly and arms to door.
- (4) Assemble gaskets to lift bracket stabilizer mounting plate.
- (5) Assemble spacers and stabilizer to glass.
- (6) Install front track.
- (7) Install lift bracket.
- (8) Install up stops front and rear.
- (9) Install rear track.
- (10) Place glass and drop to door bottom.
- (11) Install stud plate stabilizers to glass.
- (12) Install adjuster—front track.
- (13) Install up-stops to front and rear of glass.
- (14) Install inner panel brace to door sill.
- (15) Install door panel trim.

GLASS ADJUSTMENTS

2 DOOR HARDTOP

Adjustments-Ventless Door (Fig. 21)

Fore and Aft

- (1) Raise glass completely.
- (2) Move glass fore or aft to set glass to belt line weatherstrip.
- (3) Tighten glass track upper bracket at belt line.

Parallelism of Glass to Primary Seal

- (4) Move pivot bracket fore or aft and set glass parallel to weatherstrip locating bead at primary sealing lip.

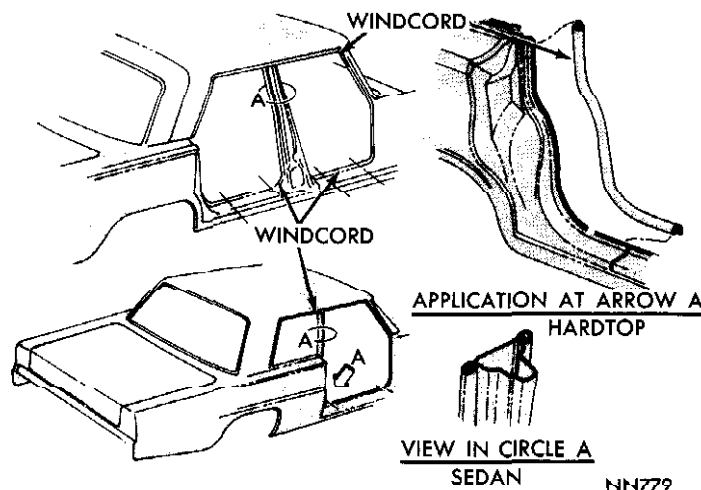


Fig. 19—Windcords

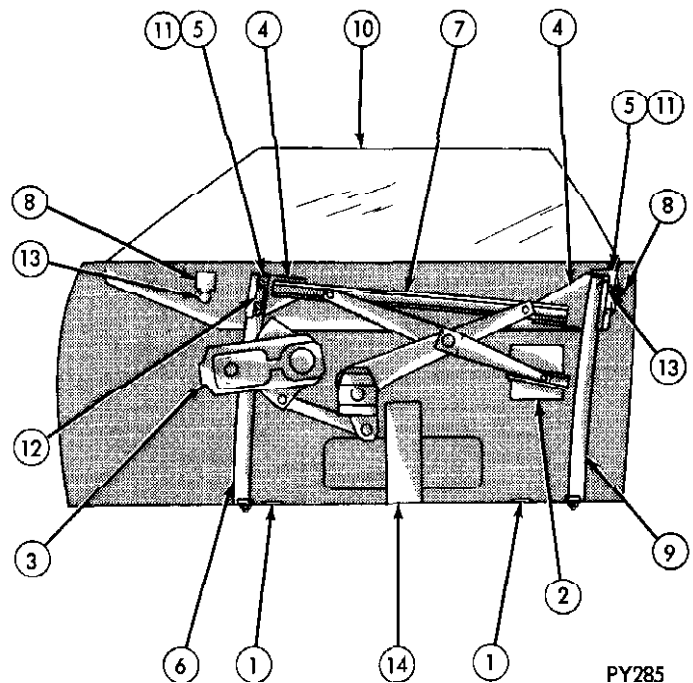


Fig. 20—Ventless Glass Installation

- (5) Tighten pivot bracket and support screw assemblies.
- (6) Set front up-stop down against bumper on glass.
- (7) Tighten up-stop bracket screw on inner panel (Fig. 22).
- (8) Set rear channel up-stop wedge down against stop in rear frame.
- (9) Tighten rear channel and bracket upper attachment screw.

In-Out and Secondary Seal

- (10) Move bottom of front track to create an effective glass to weatherstrip secondary seal.
- (11) Tighten glass track to lower bracket screw.
- (12) Tighten track lower bracket and retainer to inner panel nut assembly.

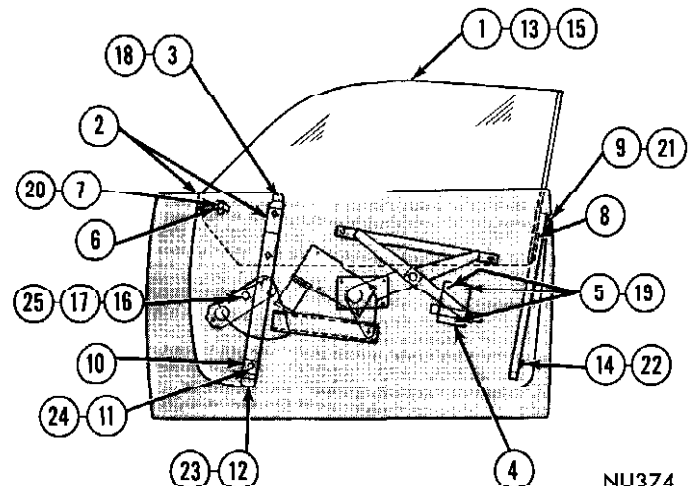


Fig. 21—Glass Adjustment 2 Door Hardtop Ventless

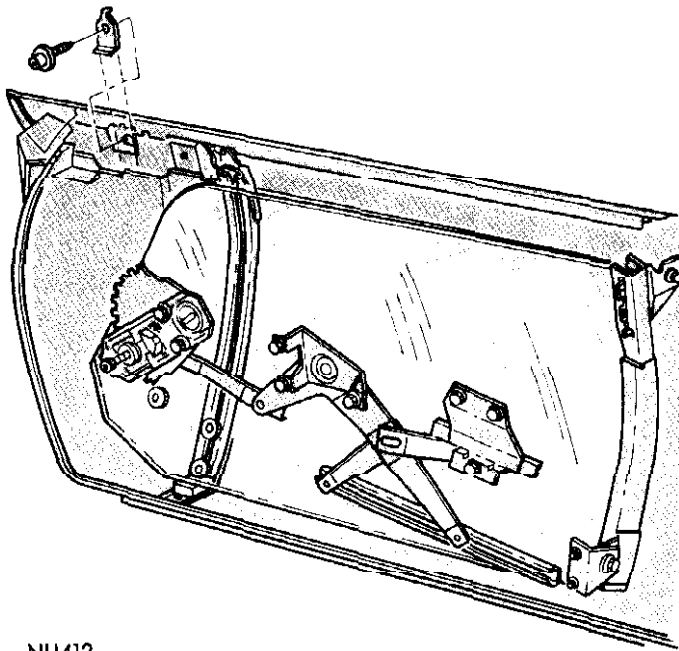


Fig. 22—Glass Up-Stops

Front and Rear Track Parallelism

- (13) Run glass approximately 2/3 way down.
- (14) Tighten glass run rear channel and bracket assembly lower bracket nut assembly.

Down Stop-Manual

- (15) Lower glass until top edges of glass is even with or slightly below belt line of door outer panel. **Do not allow glass to drop below weatherstrip on door outer panel.**

(16) Position stop on regulator plate against stop on sector.

(17) Tighten regulator plate stop locknut. Tighten callouts 18 through 25 securely.

GLASS

SEDAN MODELS

Adjustments—Vent Wing

Fore-or-aft adjustment (Fig. 23) of the upper end is accomplished by moving vent wing up or down. The assembly moves forward and downward to relieve a binding condition of the door glass and rearward and upward to remove looseness.

Loosen vent wing to door face screws and adjusting screws at lower end of division channel. With glass raised, move entire vent wing assembly up or down until glass is free in channel, **not loose**, and tighten screws. Insert a narrow blade screwdriver through opening in weatherseal, just ahead of lower pivot, to turn adjusting screws.

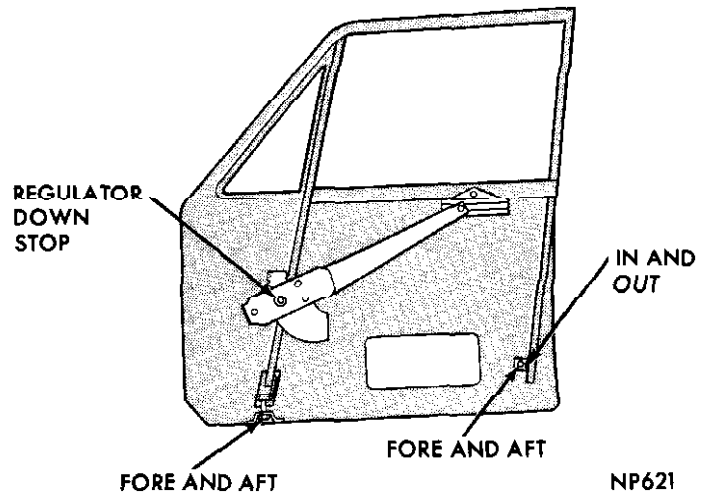


Fig. 23—Front Door Glass Adjustment (Sedan)

Door Glass

Adjustments

Front door glass adjustments for 4 door sedans (Fig. 24) are the same.

Lower glass and move division channel rearward to remove excessive looseness of glass without creating a binding condition. Tighten adjusting screws at lower end of channel.

It may be necessary to readjust the lower end of channel, to gain alignment of the channel and rear glass run.

If necessary, adjust lower end of rear run channel in or out. Adjust down-stop so top edge of glass is flush with top edge of glass opening in door.

Vent Wing Replacement

Removal

- (1) Remove nut and washer from lower vent frame stud.
- (2) Remove vent frame to door screws.
- (3) With glass in down position, disengage lower

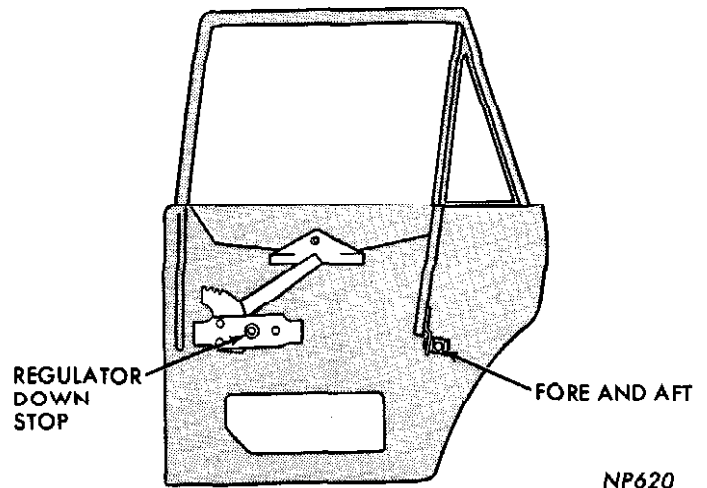


Fig. 24—Rear Door Glass Adjustment—Sedan

frame stud from door bracket, window regulator arms from lift bracket and slide glass out of run channels.

(4) Disconnect outer belt weatherstrip for a short distance to provide clearance for the division channel.

(5) Tilt top of vent frame toward rear of door and up out of door.

Installation

- (1) Place vent assembly into door.
- (2) Move vent frame forward into position.
- (3) Install attaching screws. **Do not tighten.**
- (4) Position door glass in run channel and install regulator arms and clips.
- (5) Position lower run channel adjusting stud into door bracket.
- (6) Align window run channel.

Door Glass Replacement

Removal

- (1) Loosen front run channel lower mounting screw (Fig. 23).
- (2) Move run channel forward and slide glass out of channel.
- (3) Remove regulator arm from lift bracket channel.
- (4) Remove glass from door.
- (5) Push plug out of lift bracket rivet.
- (6) Pinch expandable ends of rivet together and push rivet out of glass.

Installation

- (1) Position lift bracket and gasket on glass and install rivet and plug.
- Before installing glass, lubricate regulator slide channel.
- (2) Position glass into door.
 - (3) Position regulator arm roller into lift bracket.
 - (4) Position glass into glass run channels and adjust door glass.

Regulator Replacement

The regulator assemblies are attached to the door inner panels by screw and washer assemblies. When removing a regulator, the door glass should be fully lowered. Slide regulator rearward to disengage from lift bracket and guide assembly. Lubricate tooth area of regulator when reinstalling.

REAR DOORS

Adjustments

The front glass run is fixed. The division channel can be adjusted fore or aft, as well as in or out (Fig. 24).

If adjustment of the division channel is necessary,

loosen the upper channel attaching screw. Generally, sufficient movement of the channel is possible at this point to correct any binding or looseness of the glass.

If additional channel movement is required, lower the glass and loosen the two attachment screws at lower end of channel. If additional in-or-out movement is required to obtain proper alignment of the glass, adjust the in-or-out adjusting screw at the lower end of the division channel.

Glass Replacement

Removal

- (1) Loosen window track adjusting nuts (Fig. 25) and remove glass from run channels.
- (2) Remove regulator arm from lift bracket channel.
- (3) Remove glass from door.
- (4) Remove lift bracket from glass.

Installation

Before installing glass, lubricate all moving parts of regulator with lubriplate.

- (1) Install lift bracket on glass.
- (2) Position glass into door opening.
- (3) Install regulator arm roller into channel of glass lift bracket.
- (4) Position glass into run channels and adjust glass.

Regulator Replacement

Removal

Service procedures for the regulator are the same as for front doors.

Rear Door Stationary Glass

Removal

- (1) Remove division channel attaching screws at upper and lower ends (Fig. 26) and remove channel.

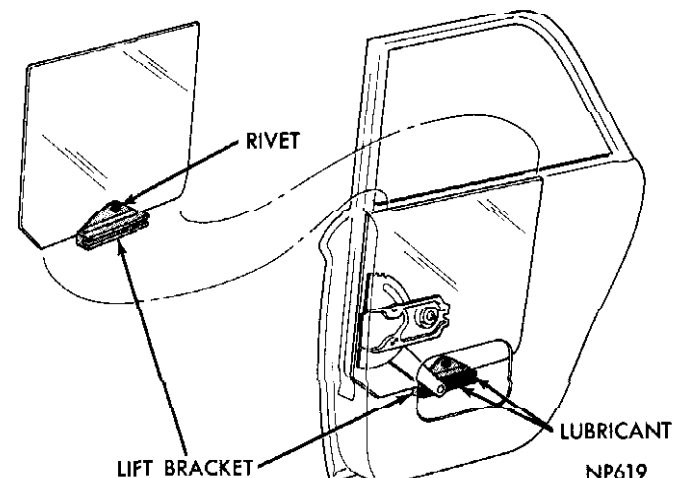


Fig. 25—Rear Door Glass Replacement—Sedan

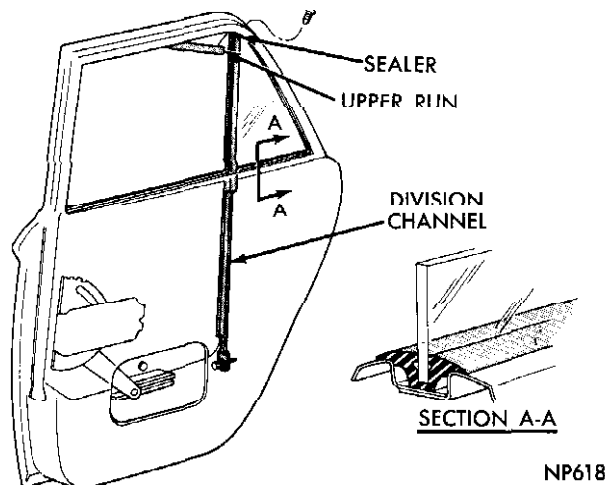


Fig. 26—Rear Door Stationary Glass—Sedan

- (2) Move the glass and weatherstrip assembly forward and out of window opening.
- (3) Inspect the weatherstrip.

Installation

- (1) Position glass and weatherstrip assembly to window opening and move rearward into upper frame.
- (2) Insert division channel run into channel.
- (3) Apply a 1-1/2 inch length of sealer to joint area of division channel.
- (4) With front glass in down position, insert division channel into door and move firmly against stationary glass weatherstrip.
- (5) Install upper and lower attaching screws but do not tighten.
- (6) Adjust the door glass.

HARDTOP MODELS

Door Glass Adjustments (Fig. 27)

- (1) Raise door glass 2/3 way up. Adjust upper at-

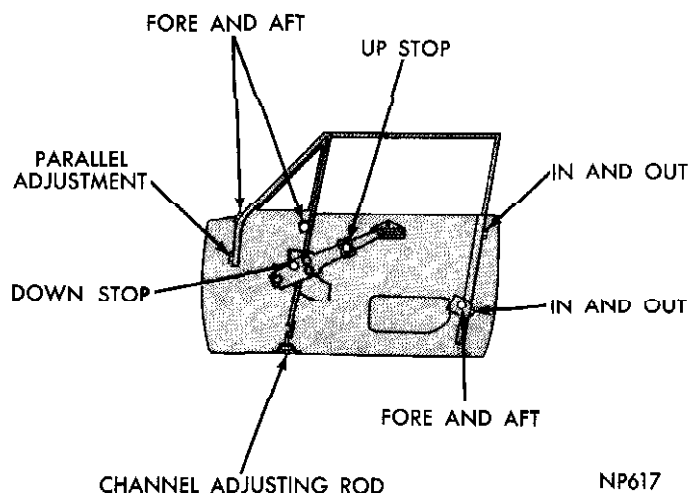


Fig. 27—Door Glass Adjustment—Hard Top

tachment of rear run channel to center glass between inner and outer weatherstrips and tighten screw.

- (2) Raise window, seating top of glass and front of vent wing fully against and parallel to roof rail weatherstrip. Tighten vent wing belt line front screw.
- (3) Adjust hinge face stud to align upper edge of glass to roof rail weatherstrip and tighten nut.
- (4) Tighten vent wing belt line rear screw.
- (5) Position up-stop down against regulator arm and tighten screw.
- (6) Lower glass 1/2 way and tighten rear track lower screw.
- (7) Tighten vent wing lower division channel adjusting rod nut.
- (8) Lower glass so top is even or slightly below belt line outer panel.
- (9) Position regulator plate stop against stop on sector and tighten nut.

GLASS REPLACEMENT (Fig. 28)

Removal

- (1) Remove up-stop from door.
- (2) Remove nut and washer from adjusting rod at bottom of vent wing channel.
- (3) At upper rear corner of belt, remove drive screw from vent wing.
- (4) Remove nut and washer from vent wing adjusting stud at hinge reinforcement.
- (5) Remove vent wing to hinge fence screw and washer.
- (6) Raise vent wing and door glass, tilt toward lock face of door and disengage regulator arm from glass

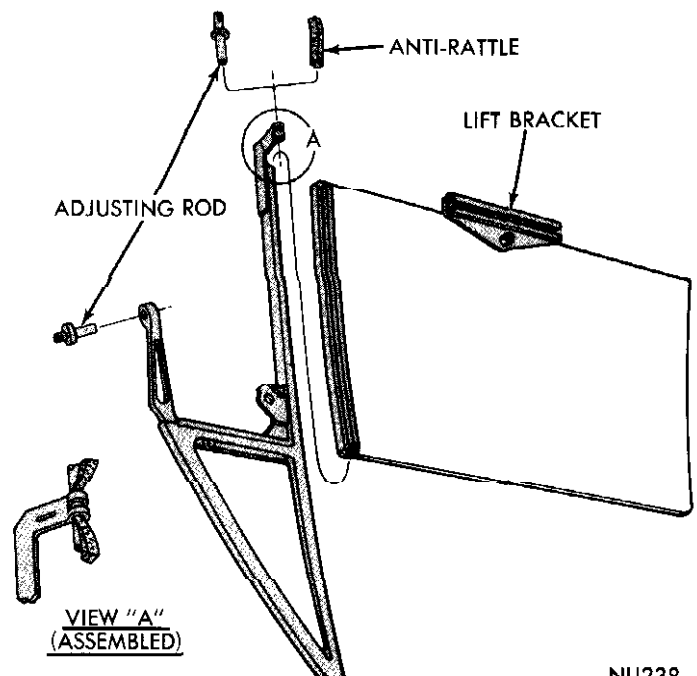


Fig. 28—Glass Replacement—Hardtop

lift bracket and remove from door.

(7) Invert vent wing and door glass assembly and remove adjusting stud, rod and retainer from vent wing (Fig. 29).

(8) Slide door glass out of vent wing channel.

(9) Remove slide, weatherstrip, pin and lift bracket assembly from door glass (Fig. 30).

Installation

(1) Position door glass and rear frame in upright position and install lift bracket and slide assemblies (Fig. 30).

(2) Invert vent wing and install door glass in inverted position.

(3) Install adjusting stud, rod and retainer in vent wing and lubricate sliding surfaces of door glass lift bracket (Fig. 29).

(4) Insert lowest point on division bar through upper lock face corner, twist to insert between panels and slide forward.

(5) Tilt lock face side of assembly upward so vent wing hinge adjusting stud will enter hole in inner reinforcement and rear edge of glass fits squarely in rear channel run (Fig. 31) and install nut and washer.

(6) Insert adjusting rod in hole of bracket and install nut and washer.

(7) Install drive screw in vent wing at rear belt.

(8) Install up-stop and adjust door glass.

Regulator Assembly

For a good engagement of the glass in the division channel run, shift the regulator assembly forward. It is important that the glass seat fully in the division channel. Alignment of the front edge of the glass with the division channel is also important. Shift the rear of the regulator assembly up or down (Fig. 32) to level the glass and align it with the division channel.

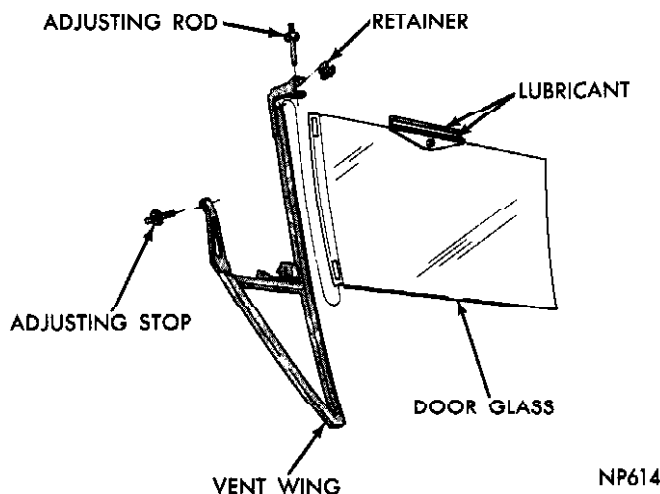


Fig. 29—Vent Wing and Door Glass—Hardtop

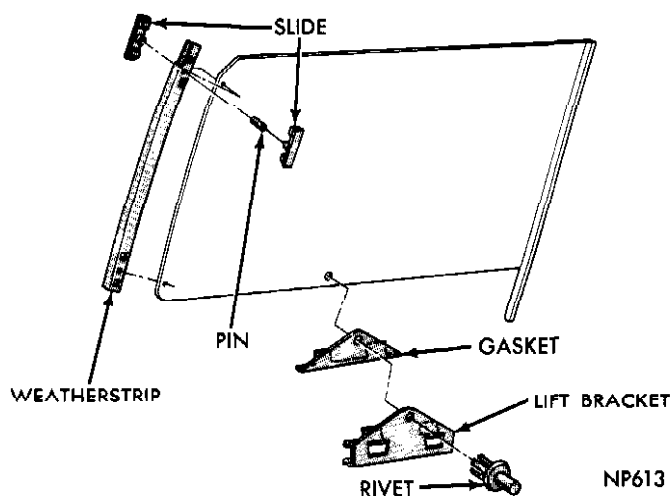


Fig. 30—Door Glass Assembly—Hardtop

Rear Run Channel

The rear run channel is attached to the door inside panel face with screw and washer assemblies. In and out adjustment of the channel is made to align the door glass in the channel.

QUARTER PANELS

GARNISH MOULDINGS

The garnish mouldings should be positioned and held in place to assure satisfactory alignment. Do not over-tighten the mounting screws, or the moulding will become damaged at the screw hole area.

TRIM PANELS

The rear seat cushion and back must be removed to gain access to the trim panel attaching screws. The trim panels are attached with screws and clips. When installing, make certain the watershield is properly cemented and positioned.

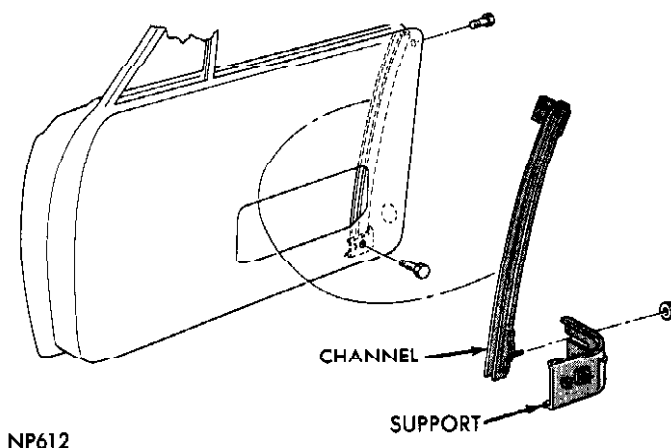


Fig. 31—Rear Channel Assembly—Hardtop

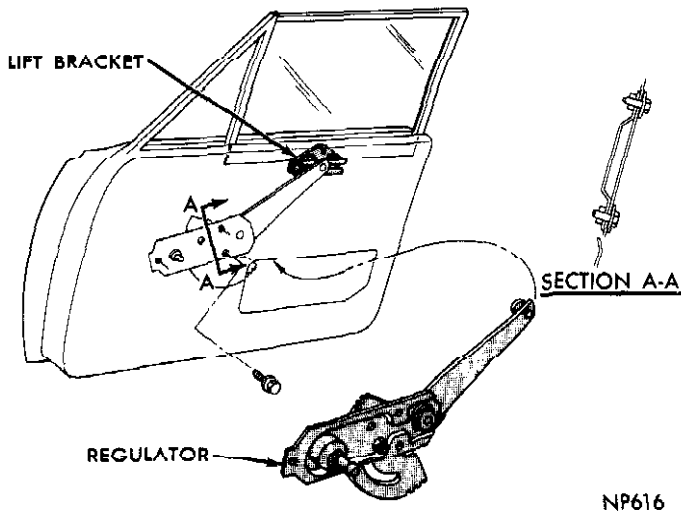


Fig. 32—Regulator Assembly—Hardtop

HANDLES

The regulator handles are attached with allen head screws.

SEDAN MODELS

Adjustments (Fig. 33)

- (1) Raise quarter window to 1/2 inch below window opening frame.
- (2) Adjust pivot bracket so top of glass is parallel to window opening frame and tighten nuts.
- (3) Lower window until rear lower edge of glass is 1/4 inch above wheelhouse and tighten regulator down stop nut.

Glass Replacement

Removal

- (1) Lower glass and through front access opening, remove clip from regulator arm stud pin (Fig. 34).

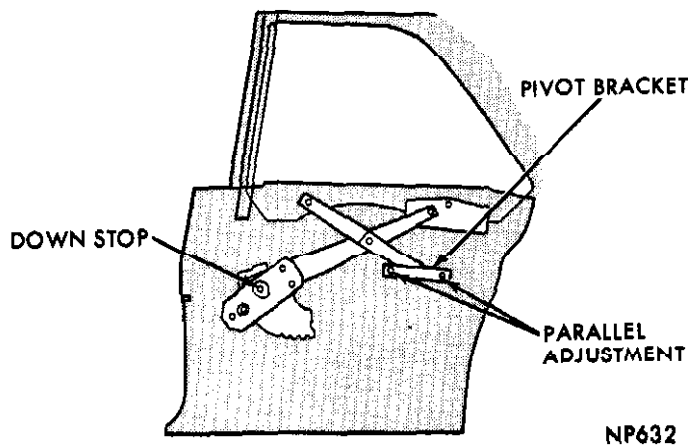


Fig. 33—Quarter Window Adjustments—Sedan

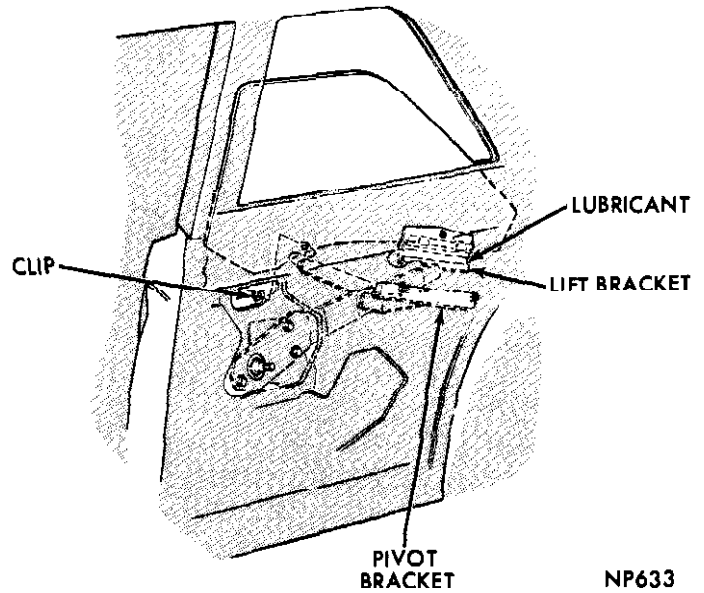


Fig. 34—Quarter Window Replacement—Sedan

- (2) Pull regulator arm stud out of bushing.
- (3) Push up on front of glass while holding arm stud pin, until front of glass is clear of stud.
- (4) Raise and rotate front of glass until lift arm bracket clears regulator arm stud.
- (5) Lower glass to bottom of quarter panel and remove outer belt weatherstrip.
- (6) Pull glass up and out.

Installation

- (1) If glass is to be replaced, remove lift bracket (Fig. 35) and attach it to new glass.
- (2) Roll regulator down until front regulator stud is accessible at front access opening.
- (3) Lower quarter glass and bracket to bottom of quarter panel and install outer belt weatherstrip.
- (4) Raise glass and position lift bracket over regulator arm roller.
- (5) Insert regulator front arm stud into bushing

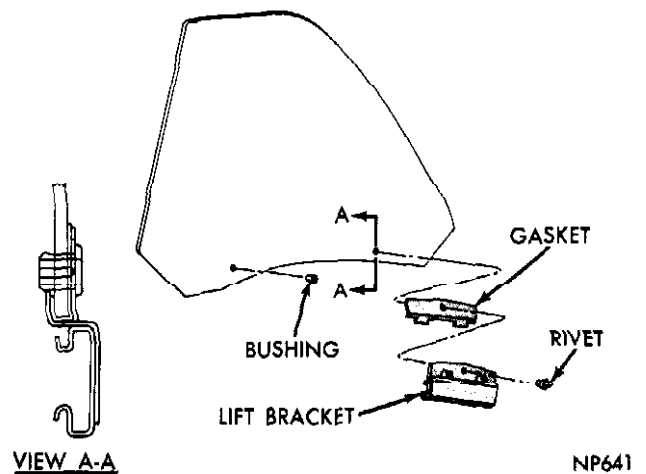


Fig. 35—Quarter Glass Assembly—Sedan

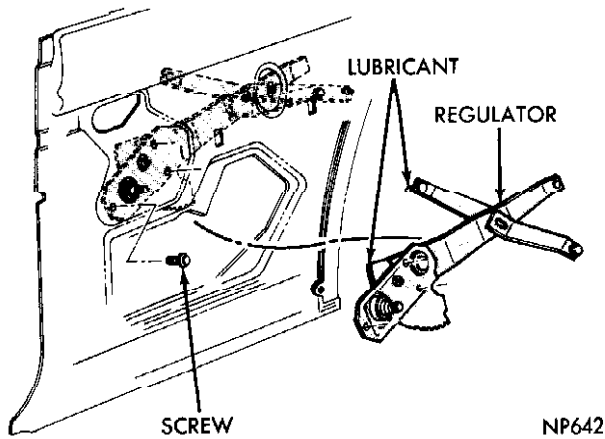


Fig. 36—Regulator Assembly—Sedan

in glass, install clip and adjust glass.

Regulator Assembly

The regulator assembly (Fig. 36) is attached to the inner panel with screw and washer assemblies. Inspect rollers on regulator studs and apply lubricant to the slide area of the pivot channel prior to installing regulator.

Run Channels

The glass run channels are a press fit in the front channel and window opening frame (Fig. 37).

HARD TOP MODELS

Adjustments

- (1) Raise quarter window 2 inches above belt line.
- (2) Adjust top of front and rear tracks (Fig. 38) until glass just touches the outer belt weatherstrip and tighten nuts.
- (3) Raise window to the upper weatherstrip and adjust regulator so glass at front contacts weatherstrip and is parallel to the weatherstrip bead. Tighten regulator screws.
- (4) Adjust bottom of front and rear tracks until

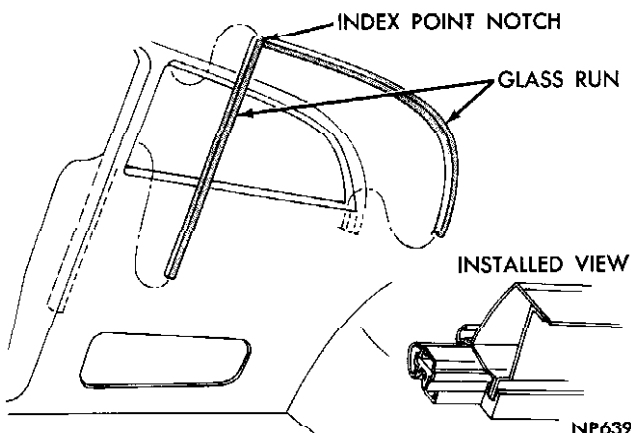


Fig. 37—Quarter Window Glass Run—Sedan

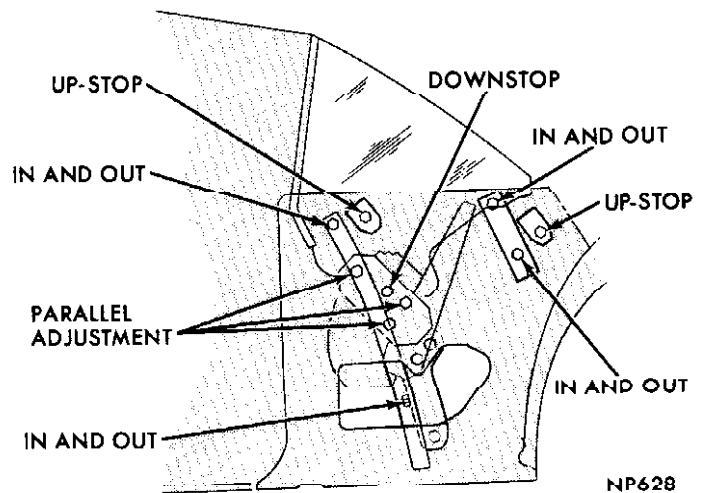


Fig. 38—Quarter Window Adjustments—Hardtop

upper edge of glass seals against roof weatherstrip. Tighten nut on rear track only.

(5) Tighten adjusting screw on bottom of front track to lower brace.

(6) Position front and rear up-stops (Fig. 39) to glass lower frame stops and tighten screws.

(7) Adjust regulator down-stop (Fig. 38) so glass contacts outer weatherstrip lightly for full length.

GLASS REPLACEMENT

Removal

- (1) With glass in mid-position, remove spring nuts from regulator arm studs (Fig. 40) and studs from rollers.
- (2) Remove up-stops from lower frame (Fig. 39).
- (3) Remove glass assembly from door
- (4) Remove slide and roller from glass frame rear track and roller assemblies from tracks in front section (Fig. 41).

Installation

- (1) Position roller assemblies and slide to front and

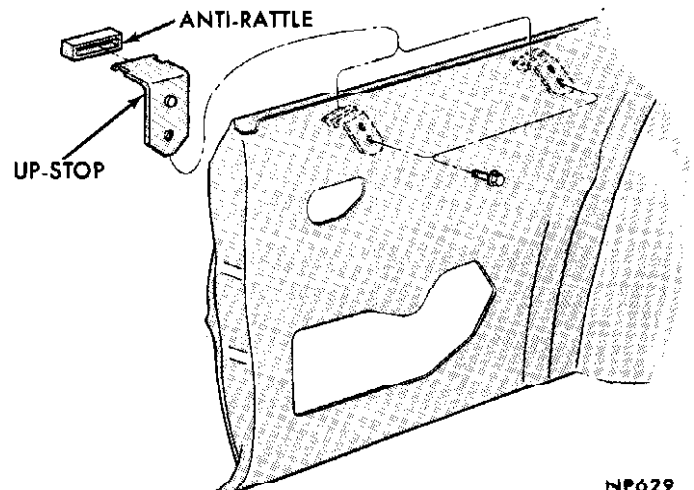


Fig. 39—Quarter Window Up-Stops—Hardtop

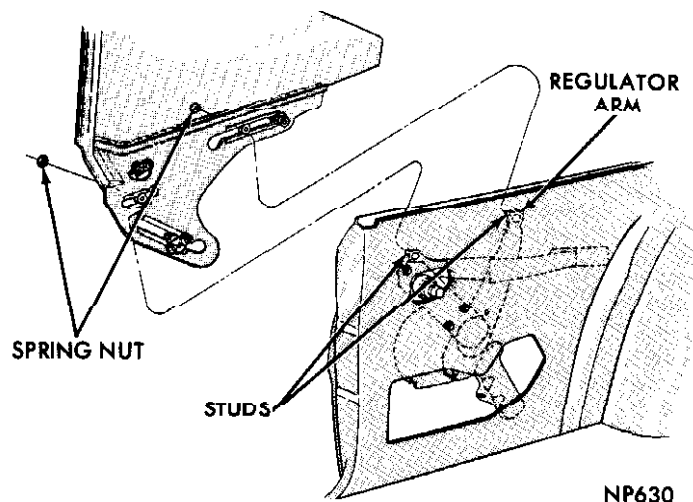


Fig. 40—Quarter Window Replacement—Hardtop

rear tracks of glass lower frame.

(2) Insert glass assembly into quarter panel, spring regulator arms inboard and insert studs in rollers and install spring nuts.

(3) Install up-stops and adjust quarter window.

Regulator Assembly

Hardtop models use a two arm regulator (Fig. 42). To remove the quarter window regulator, it is advisable to first remove the glass. The regulators are attached to the inner panels by screws. After the regulator and glass have been installed, test the operation of the regulator and adjust the glass.

Front Roller Track and Brace

The front roller track (Fig. 43) is replaced from between the quarter inner and outer panels with the quarter window fully lowered. Disconnect track from brace, remove sleeve nut and washer and rotate track approximately 90 degrees to disengage from rollers when removing.

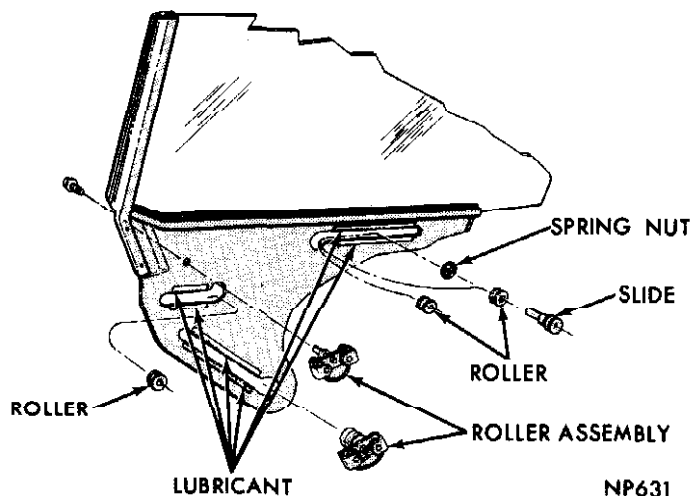


Fig. 41—Quarter Window Assembly—Hardtop

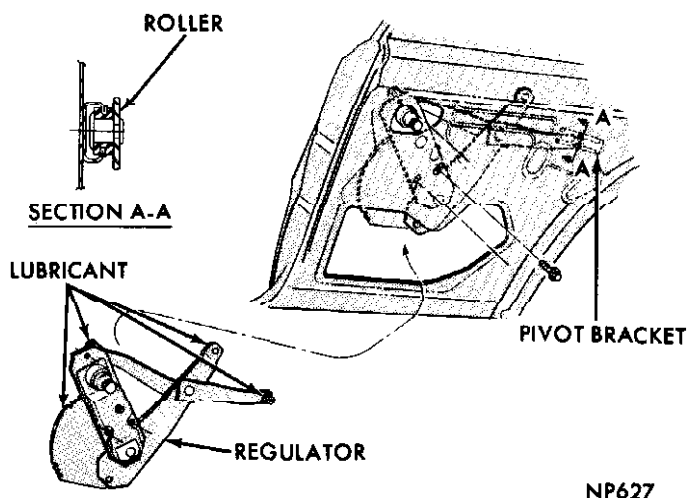


Fig. 42—Regulator Assembly—Hardtop

Rear Track

The rear track (Fig. 44) is replaced through the large opening in quarter inner panel with quarter window fully closed. Lubricate sliding surfaces of track assembly when installing.

PANEL SIDE REFLECTORS

The quarter panel side reflector is attached to the panel with sealing type nuts (Fig. 45).

DECK LID

Alignment

The deck lid hinges (Fig. 46) permit only a very slight adjustment at the deck lid to hinge attaching points.

Replacement

The deck lid is attached to the hinges by two screws on each side. An assistant's aid is recommended when

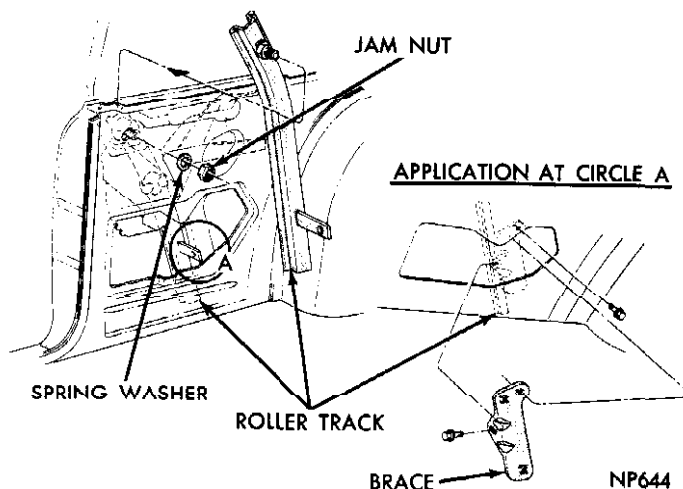


Fig. 43—Front Roller Track and Brace—Hardtop

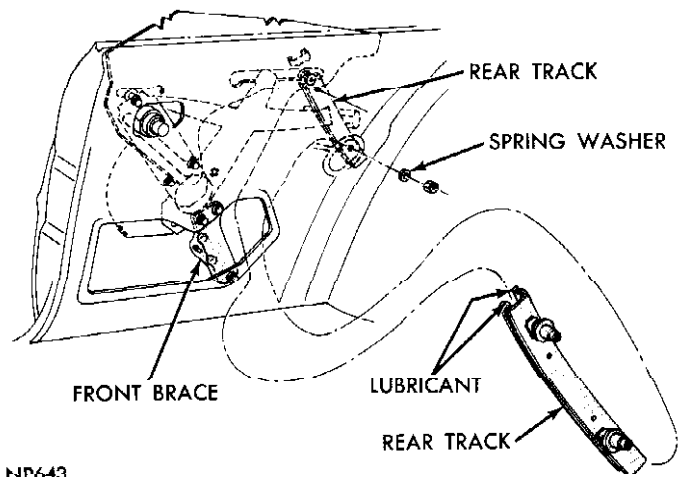


Fig. 44—Rear Roller Track—Hardtop

replacing the deck lid to prevent it from sliding rearward and damaging the paint and also to aid in the aligning of the hinge screw holes when it is installed.

Hinge Replacement

Removal

- (1) Remove the deck lid assembly.
- (2) Disengage the torsion bar roller from hinge being removed. Use care when disengaging torsion bar as it is under a load.
- (3) Remove spring nut (Fig. 46) retaining hinge to hinge bracket and remove hinge.

Installation

- (1) Use a new spring nut and install hinge on hinge bracket.
- (2) Install deck lid assembly and connect torsion bar.

Torsion Bar Replacement

Removal

- (1) Remove torsion bar (underspring load) from ad-

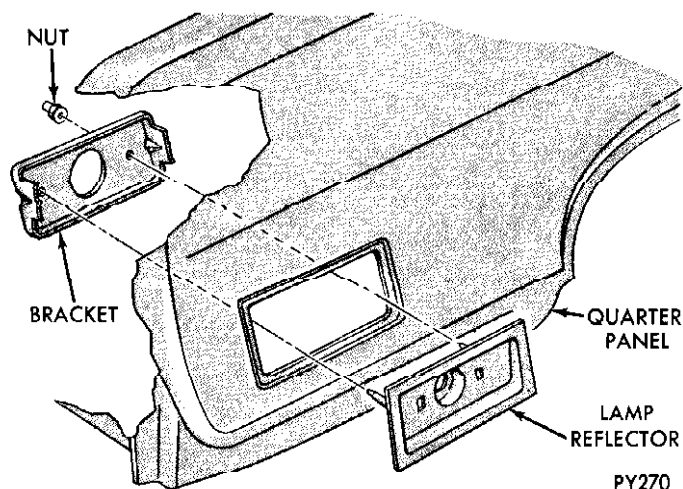


Fig. 45—Quarter Panel Side Reflector Lamp

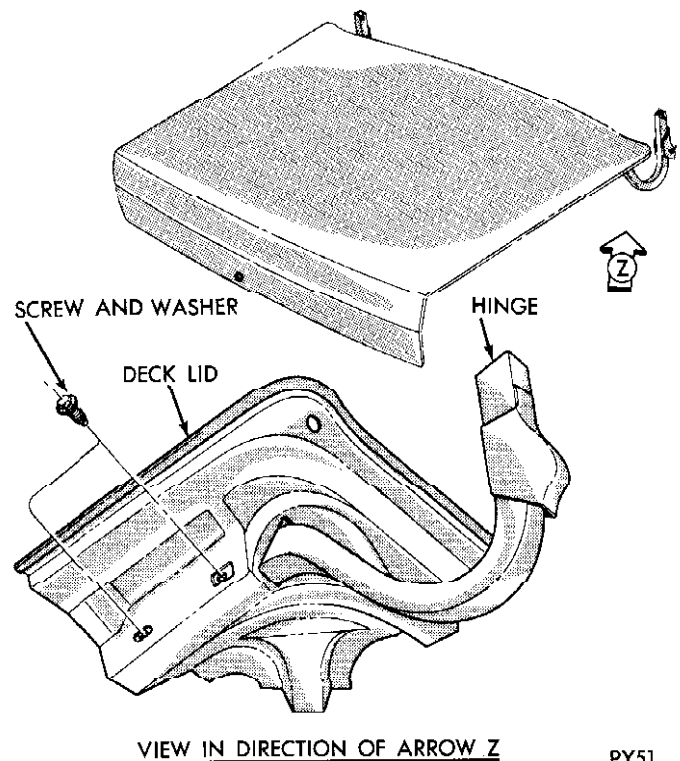


Fig. 46—Deck Lid Hinge

justment slot (Fig. 46).

- (2) Unwind torsion bar.
- (3) Unhook torsion bar from support bracket.
- (4) Push torsion bar out of roller in hinge arm and remove from hinge support.

Installation

- (1) Insert bar into hinge support.
- (2) Insert end of torsion bar into roller in hinge arm.
- (3) Hook torsion bar into support bracket.
- (4) Wind torsion bar and insert end of bar into first adjusting slot.
- (5) Place deck lid in various open positions and test tension of torsion bars.
- (6) Adjust torsion bars progressively until deck lid stays in open position.

Lock Replacement

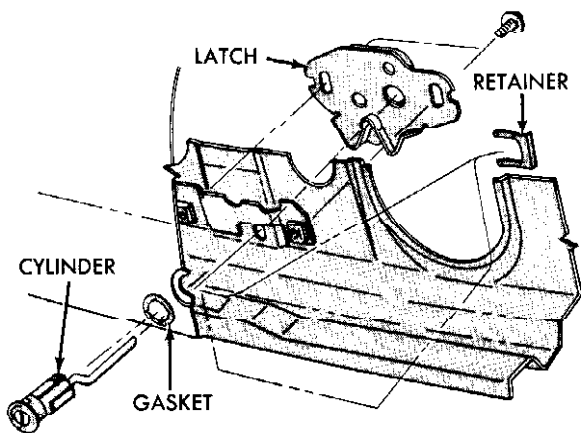
The deck lid lock assembly (Fig. 47) is attached to the deck lid by two screws. Scribe the location of the lock mounting flanges to aid in installation.

Lock Adjustment

Vertical adjustment of the deck lid lock is made at the lock attaching screws. The side adjustment is made at the striker attaching bolts.

Lock Cylinder

The deck lid lock cylinder (Fig. 47) is retained in the body by a spring steel "U" shaped clip attached from within the body.

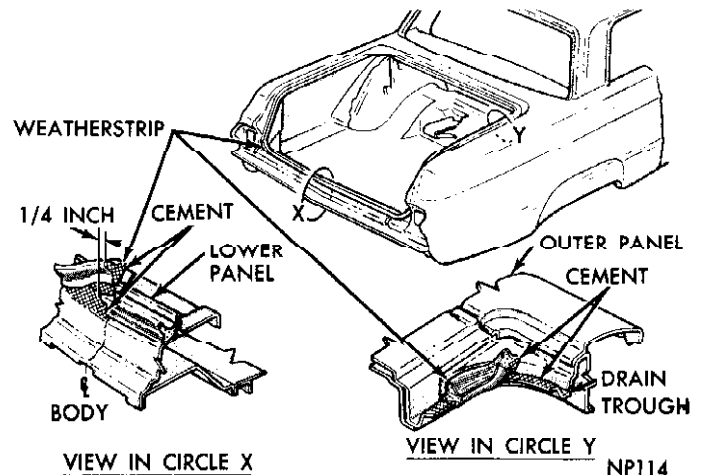


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Fig. 47—Deck Lid Lock

Weatherstrip

Apply an even continuous coat of cement to entire



NP114

Fig. 48—Deck Lid Weatherstrip

weatherstrip contact surface of deck lid opening (Fig. 48) and install weatherstrip. Make sure molded corners of weatherstrip are correctly positioned.