

BODY COMPONENTS

CONTENTS

	page		page
DOORS	15	PAINT CODE CHART	43
EXTERIOR COMPONENTS	1	POWER SUNROOF	12
FIXED WINDOW GLASS	25	REFINISHING PROCEDURES	43
INTERIOR COMPONENTS	29	UNDERBODY COMPONENTS	28

EXTERIOR COMPONENTS

INDEX

	page		page
Battery Tray	6	Hood Hinges	4
Body Side Cladding	7	Hood Latch	5
Body Stripes/Decals	9	Hood Latch Striker	5
Cowl Grille and Screen	5	Latch Release Cable	5
Exterior Nameplates	10	Luggage Rack	11
External Mirrors	11	Quarter Window Applique/Air Exhauster	10
Front Fender	7	Radiator Support Crossmember	3
Grille and Grille Opening Reinforcement (GOR)	1	Safety Latch Striker	5
Hood	3	Woodgrain (Vinyl Clad Metal) Molding	8
Hood Adjustment	4	Woodgrain Overlay	8

GRILLE AND GRILLE OPENING REINFORCEMENT (GOR)

REMOVAL

(1) Remove 3 screws and grille (Fig. 1) from grille opening reinforcement (GOR).

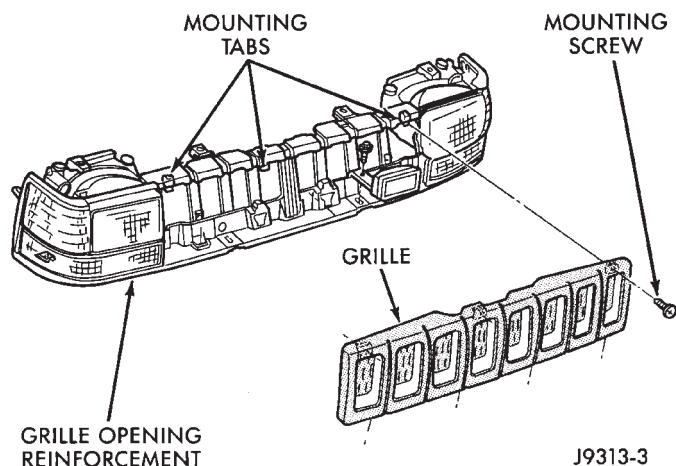


Fig. 1 Grille Removal

(2) Grasp lower edge of headlamp lens. Pull straight back (away) from grille opening reinforcement (GOR). Disengage lower adjuster pivots from lens assembly (Fig. 2).

(3) Grasp upper edge of headlamp lens. Pull straight back (away) from grille opening reinforcement (GOR). Disengage upper adjuster pivot from lens assembly.

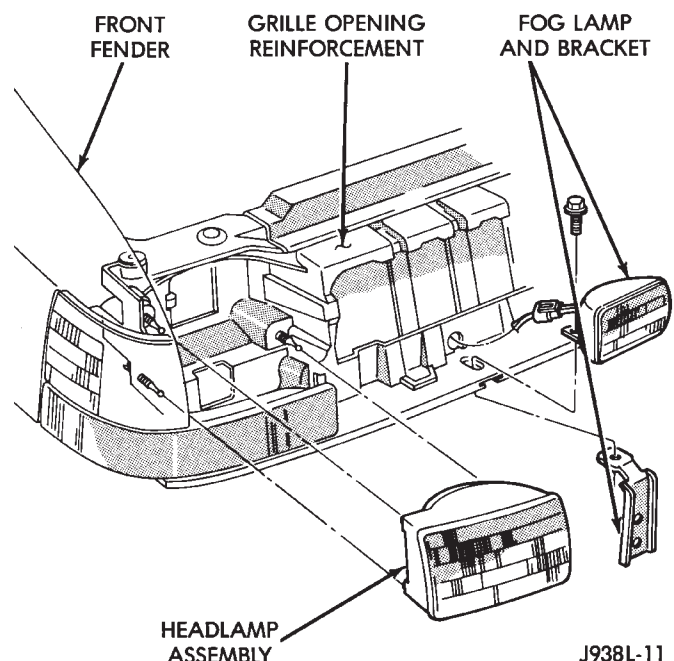


Fig. 2 Headlamp Removal

(4) Locate and disconnect the 3 wire connector behind headlamp.

(5) Rotate bulb ring counterclockwise. Remove ring and bulb from lens (Fig. 3).

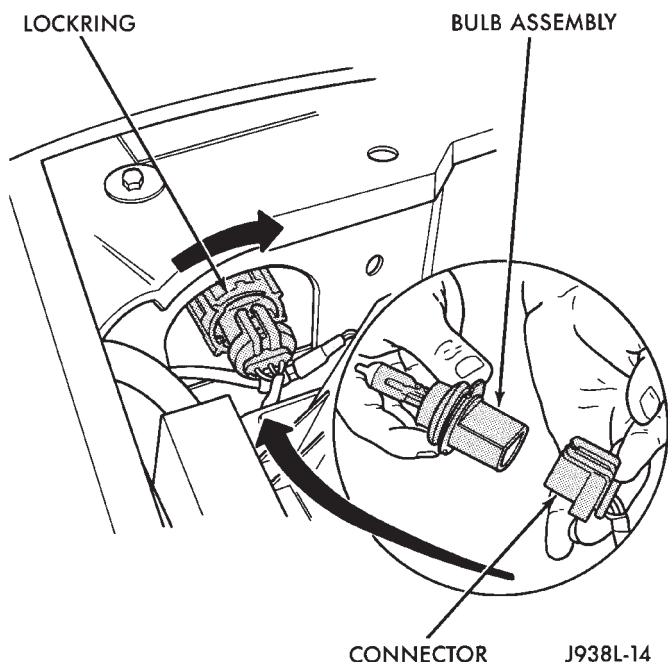


Fig. 3 Headlamp Bulb Removal

(6) Open hood.

(7) Remove side marker lamp upper screw located below radiator side closure panel (Fig. 4).

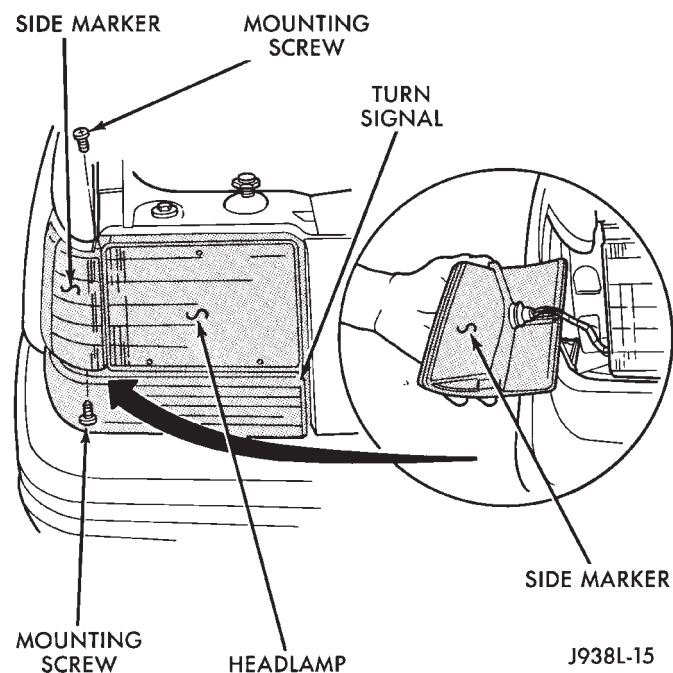


Fig. 4 Side Marker Lamp Removal

(8) Remove lower screw located above park/turn signal lamp.

(9) Pull out lamp.

(10) Twist lamp socket clockwise. Disconnect lamp socket from lamp.

(11) Remove upper screws at turn signal lens. Pull lens out to access lamp sockets (Fig. 5).

(12) Remove turn signal and side marker lamp sockets by twisting sockets clockwise.

(13) Remove lens.

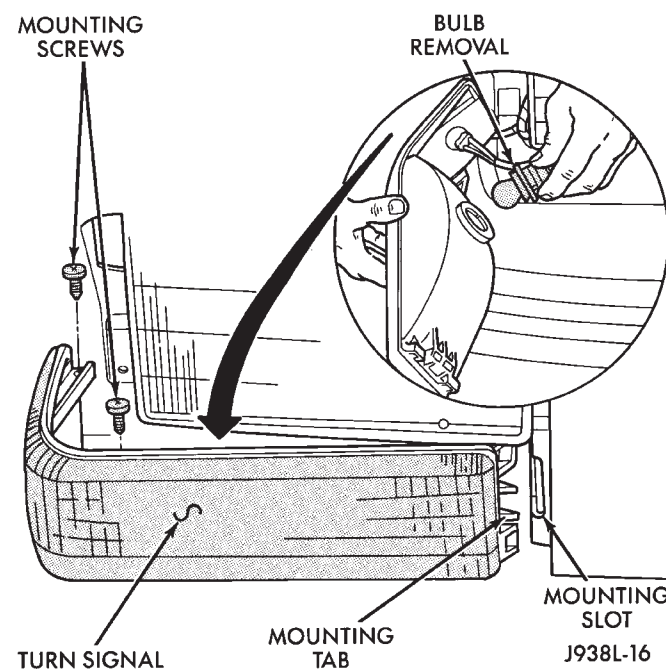


Fig. 5 Turn Signal Lens

(14) Repeat procedure for other side of front end.

(15) Remove license plate bracket if equipped, from bumper fascia/crossmember.

(16) Remove 6 retainers at front fascia (Fig. 6).

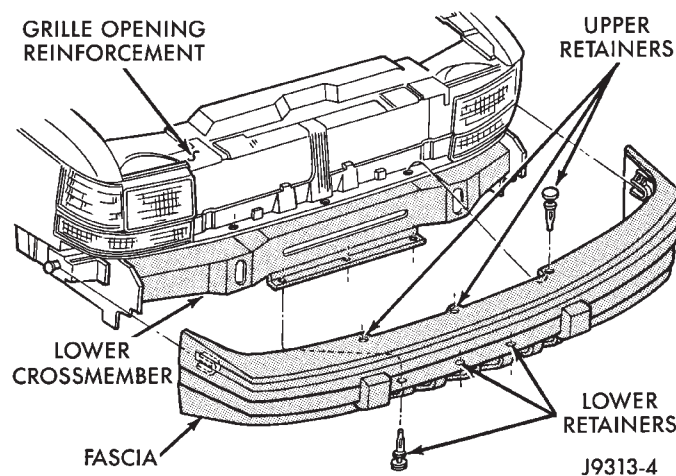


Fig. 6 Lower Fascia Removal

(17) Remove 3 plastic rivets at each front wheel well (Fig. 7).

(18) Slide fascia off retainer pegs at side of lower crossmember.

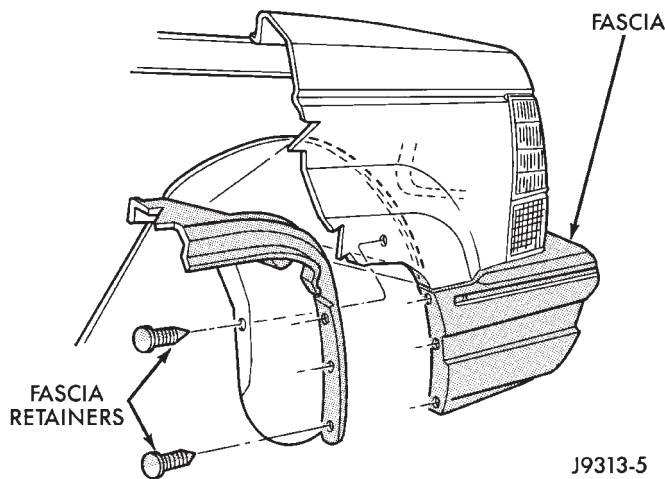


Fig. 7 Wheel Well Retainers

(19) Remove fascia from lower crossmember (Fig. 6).

(20) Remove 8 bolts that attach grille opening reinforcement (GOR) to the upper and lower crossmember (Fig. 8).

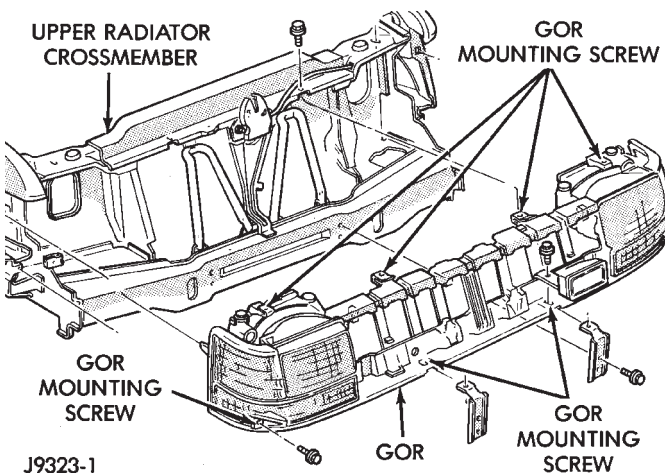


Fig. 8 Grille Opening Reinforcement

(21) Remove grille opening reinforcement.

(22) If necessary, remove air seals located at headlamp wiring inlets (Fig. 9).

INSTALLATION

For installation, reverse removal procedure.

RADIATOR SUPPORT CROSSMEMBER

Refer to Group 7, Cooling Systems for service information.

HOOD

REMOVAL

- (1) Raise hood.
- (2) Disconnect underhood lamp wire harness connector (Fig. 10), if equipped.

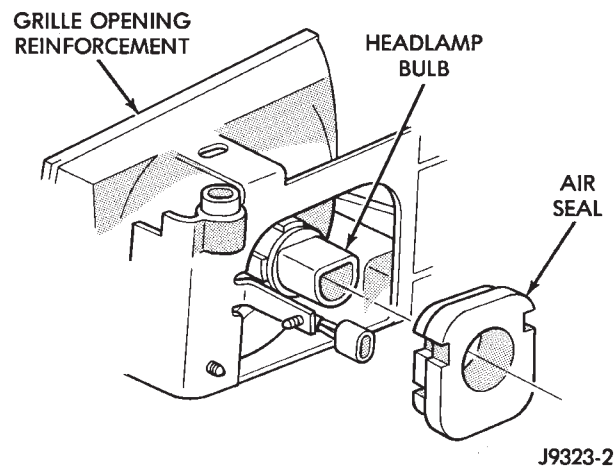


Fig. 9 GOR Air Seals

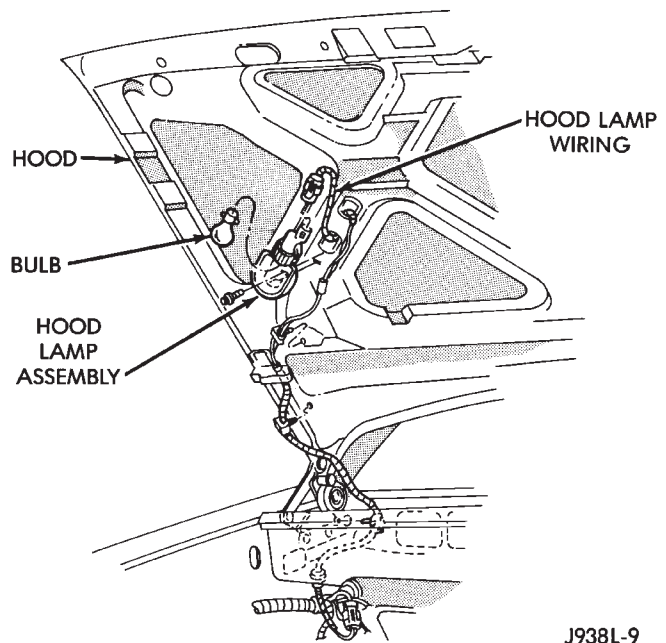


Fig. 10 Underhood Lamp

(3) Mark location of the hood hinges and hinge shims (Fig. 11) for installation alignment.

(4) Remove nuts that attach hinges to hood. Remove hood from vehicle with aid of a helper.

INSTALLATION

(1) Position hood on shims and hinges. Fingertighten hinge nuts (Fig. 12).

(2) Align hinges and shims (Fig. 11) with installation reference marks. Tighten hinge nuts to 23 N•m (17 ft-lbs) torque.

(3) Test latch release cable and latches for proper operation.

(4) Connect underhood lamp wire harness connector (Fig. 10).

(5) Inspect hood for proper alignment and adjust as necessary.

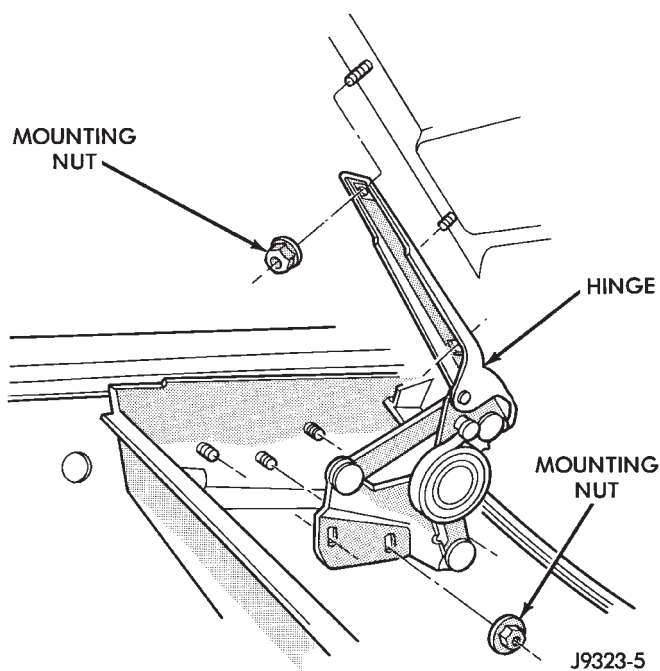


Fig. 11 Hood Hinge

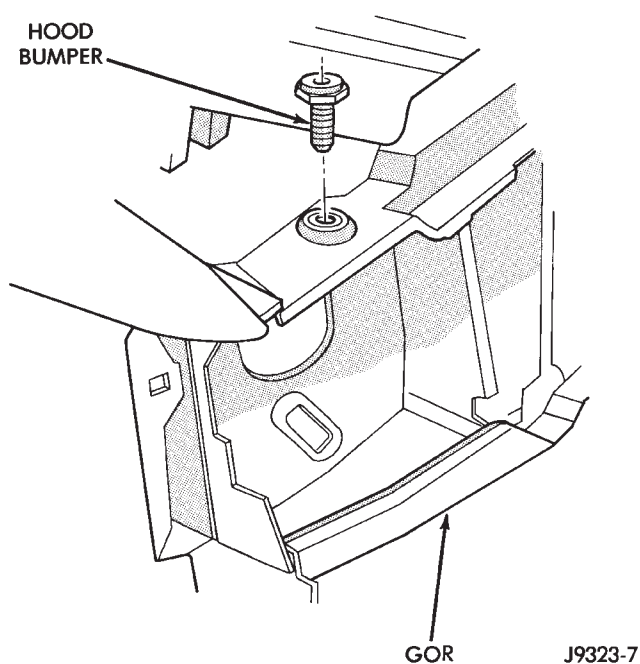


Fig. 13 Hood Bumper

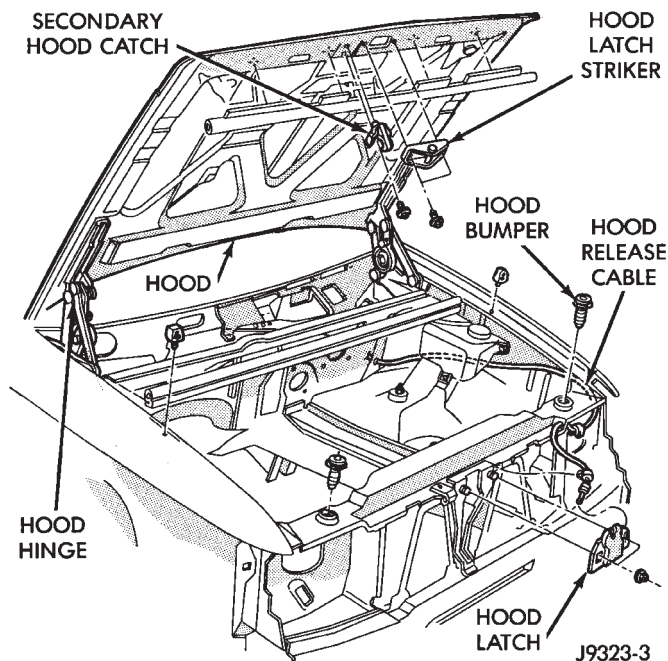


Fig. 12 Hood Hinges and Release Cable

HOOD ADJUSTMENT

The hood attaching holes are enlarged to aid front, back and side-to-side adjustment.

(1) If hood is low in relation to cowl panel, insert shims between hinge and hood.

(2) Adjust hood bumper (Fig. 13) in or out to adjust hood-to-fender height alignment.

(3) Adjust the hood latch (Fig. 14) as necessary. Tighten the nuts to 11 N•m (8 ft-lbs) torque after adjustment.

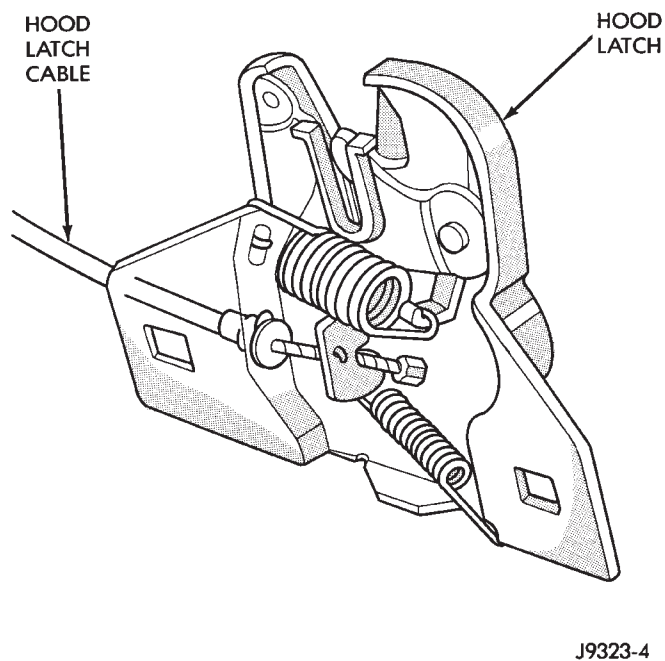


Fig. 14 Hood Latch

(4) Align latch striker (Fig. 12) so that striker enters the latch squarely and without binding.

HOOD HINGES**REMOVAL**

- (1) Remove hood from vehicle.
- (2) Remove hinge retaining nuts from studs (Fig. 11).
- (3) Remove hinge from inner cowl side panel.

INSTALLATION

- (1) Position hinge over studs (Fig. 11).
- (2) Install hinge retaining nuts on studs. Tighten retaining nuts to 23 N•m (17 ft-lbs) torque.
- (3) Install hood.
- (4) Adjust hood as necessary. If necessary, refer to adjustment procedure.

HOOD LATCH**REMOVAL**

- (1) Remove nuts that attach latch to radiator crossmember support (Fig. 12).
- (2) Disconnect latch from the hood release cable. Remove latch.

INSTALLATION

- (1) Connect latch to latch release cable. Position it on radiator crossmember support (Fig. 12).
- (2) Install nuts.
- (3) Tighten nuts to 11 N•m (8 ft-lbs) torque.
- (4) Test operation of latch release cable and latch.

HOOD LATCH STRIKER**REMOVAL**

- (1) Remove 2 striker retaining bolts.
- (2) Remove striker from hood (Fig. 12).

INSTALLATION

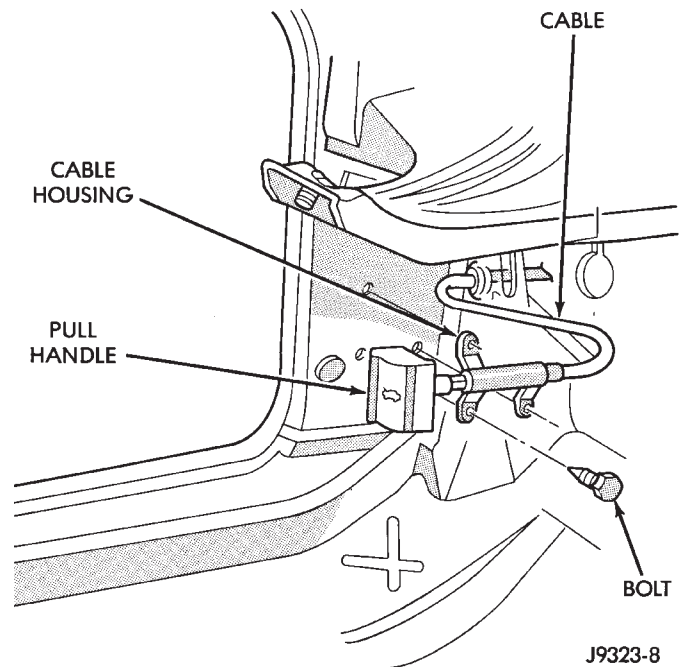
- (1) Position striker on hood. Install bolts (Fig. 12).
- (2) Tighten bolts to 11 N•m (8 ft-lbs) torque.
- (3) Test striker/hood alignment by opening and closing hood several times. Adjust striker, if necessary.

LATCH RELEASE CABLE**REMOVAL**

- (1) Disconnect cable from hood latch (Fig. 14).
- (2) Disconnect cable from retaining clips (Fig. 12).
- (3) Remove left cowl side (kick) trim panel.
- (4) Remove cable bracket attaching screws from cowl side panel (Fig. 15).
- (5) Pull cable through dash panel and remove it from under instrument panel.

INSTALLATION

- (1) Insert replacement cable end through hole in dash panel (Fig. 15) into engine compartment.
- (2) Pull cable forward and seat grommet in dash panel (Fig. 15).
- (3) Position cable bracket on cowl side panel and install screws (Fig. 15). Tighten screws to 11 N•m (8 ft-lbs) torque.
- (4) Install left cowl side trim panel.
- (5) Route cable into retaining clips.
- (6) Attach cable to hood latch (Fig. 12).
- (7) Test release cable for proper operation.

**Fig. 15 Hood Release Cable****SAFETY LATCH STRIKER****REMOVAL**

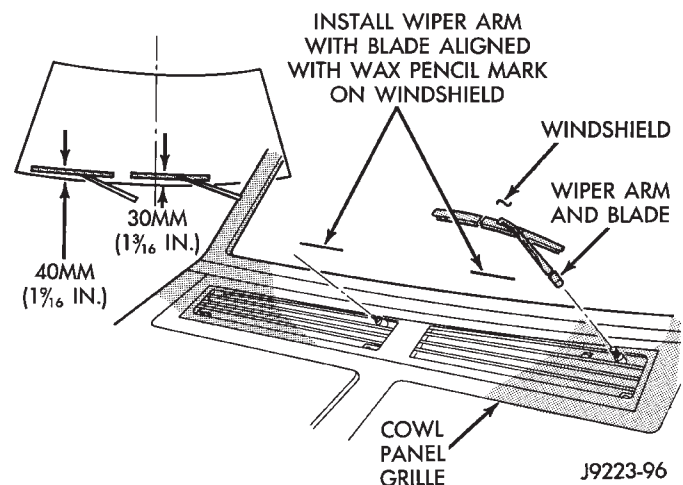
- (1) Remove latch striker screw from hood (Fig. 12).
- (2) Remove striker from hood (Fig. 12).

INSTALLATION

- (1) Position striker on hood. Install screw (Fig. 12).
- (2) Test safety latch operation.

COWL GRILLE AND SCREEN**REMOVAL**

- (1) Use a wax pencil to mark position of wiper arms (Fig. 16).

**Fig. 16 Wiper Locations On Windshield**

- (2) Remove windshield wiper arms from pivots (Fig. 16).

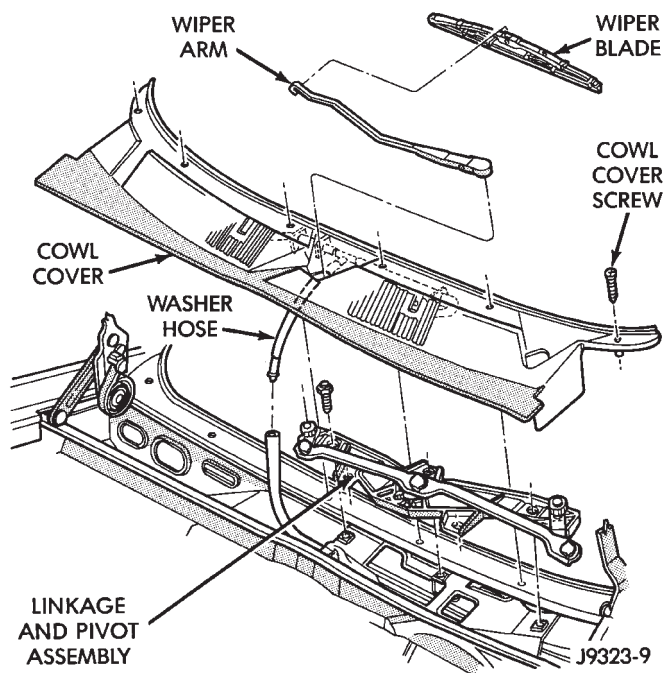


Fig. 17 Cowl Grille Components

(3) Remove 6 screws that attach grille to cowl (Fig. 17).

(4) Remove windshield washer tubes from nozzles (Fig. 18).

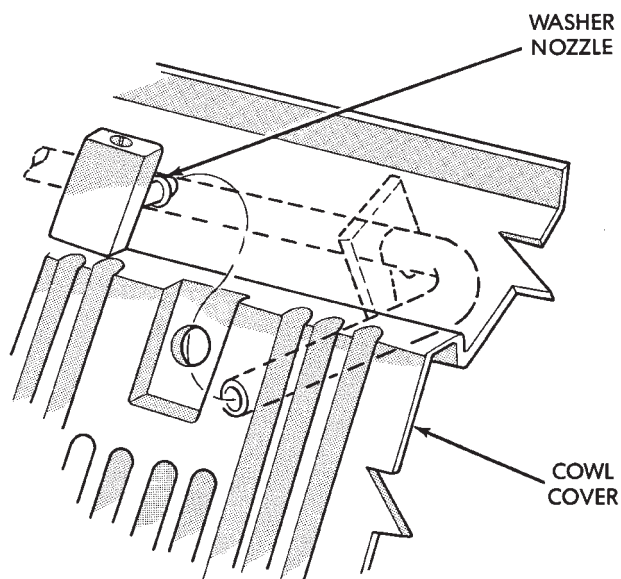


Fig. 18 Washer Fluid Tubes

(5) Remove cowl grille and screen from cowl (Fig. 17).

INSTALLATION

(1) Position cowl grille on cowl. Install windshield washer tubes on nozzles (Fig. 18).

(2) Install cowl grille retaining screws.

(3) Install windshield wiper arms on pivots with wipers aligned with wax pencil (Fig. 16).

BATTERY TRAY

REMOVAL

(1) Remove 2 bolts and holddown bracket from battery tray (Fig. 19).

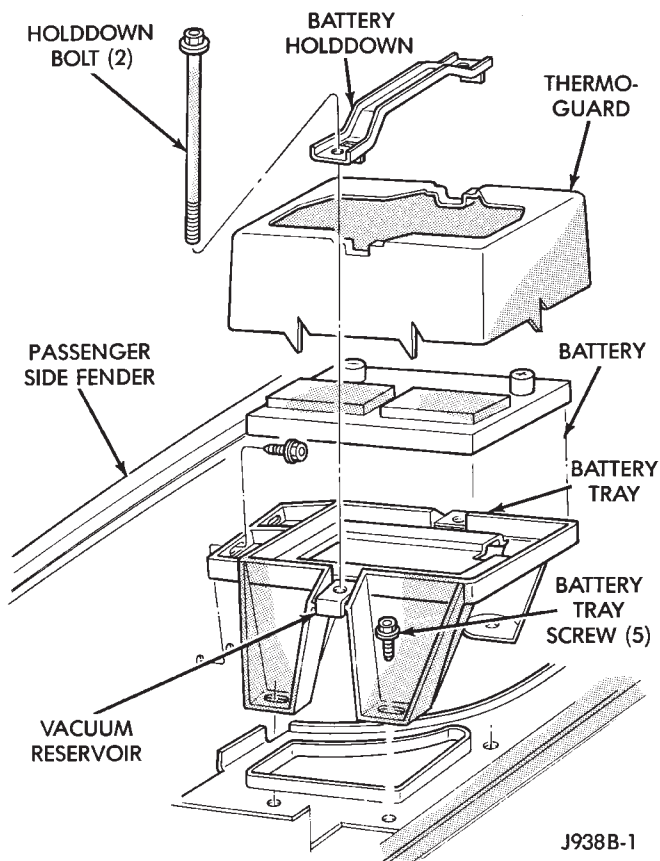


Fig. 19 Battery Tray

(2) Remove battery thermo-guard from battery.

(3) Remove battery from tray.

(4) Remove 5 screws that attach battery tray to inner fender panel.

(5) Remove battery tray. Disconnect vacuum reservoir hoses.

(6) If necessary, remove 2 screws that attach reservoir to bottom of battery tray.

INSTALLATION

(1) If removed, install vacuum reservoir and screws to bottom of tray.

(2) Position battery tray on inner fender panel. Connect vacuum lines to reservoir.

(3) Attach battery tray to inner fender panel with the 5 screws (Fig. 19). Tighten screws to 10 N•m (7 ft-lbs) torque.

(4) Install battery in tray.

(5) Position upper holddown bracket over battery.

(6) Install holddown bracket and holddown bolts. Tighten the bolts to 10 N•m (7 ft-lbs) torque.

FRONT FENDER

REMOVAL

(1) Remove headlamp, side marker and turn signal lamp. Refer to Group 8L, Lamps for service information.

(2) Remove front bumper fascia. Refer to Group 13, Frame and Bumpers for service information.

(3) Remove front wheel.

(4) Remove 12 fasteners attaching inner front fender liner to fender and inner fender (Fig. 20).

(5) Remove inner fender liner.

(6) Right fender only:

- If equipped, remove radio antenna mast, nut, pad and base from fender (Figs. 21 and 22);

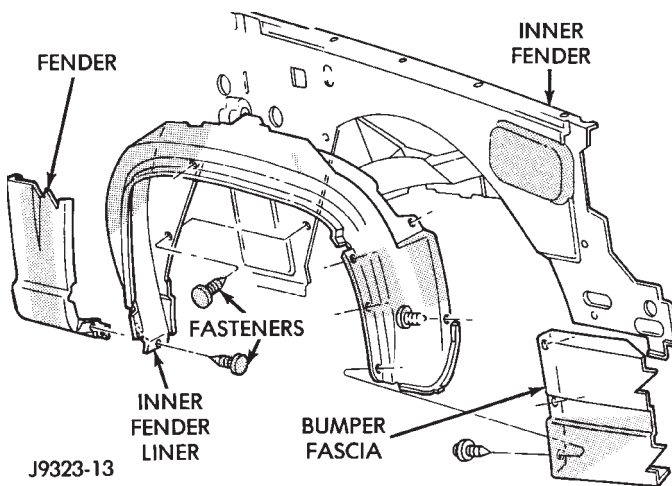


Fig. 20 Inner Fender Liner

(7) From inside wheel well, remove 2 bolts at rear of fender reinforcements (Fig. 23).

(8) Remove 2 bolts at front fender bracket (Fig. 24).

(9) Remove 2 bolts at lower rear of fender at A-pillar (Fig. 24).

(10) Remove 5 upper mounting bolts at top of fender (Fig. 24).

(11) Remove fender from inner fender.

INSTALLATION

(1) Position fender on inner fender panel (Fig. 24).

(2) Install all of fender attaching screws finger-tight (Figs. 20, 23 and 24).

(3) Align fender with adjacent body panels. Tighten fender bolts to 9 N•m (80 in-lbs) torque.

(4) Install inner fender liner (Fig. 20).

(5) Install front wheel.

(6) Install front bumper fascia. If necessary refer to Group 13, Frame and Bumpers for installation instructions.

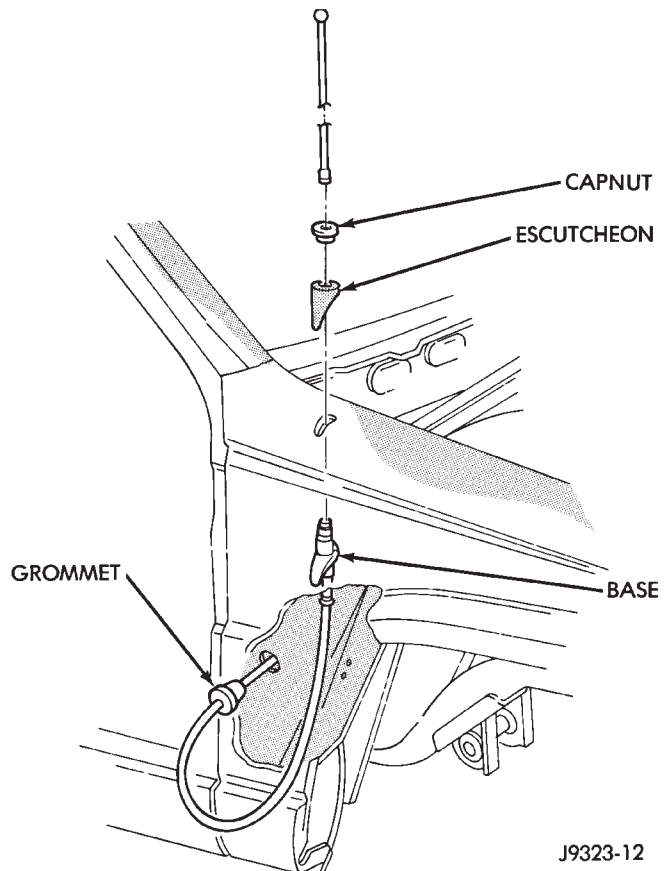


Fig. 21 Radio Antenna

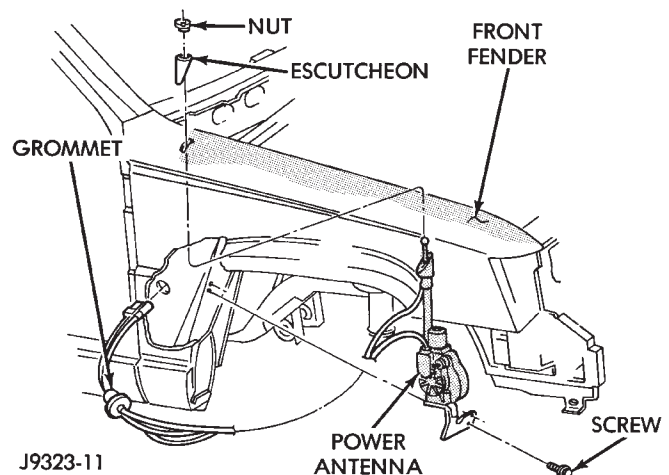


Fig. 22 Power Antenna

(7) Install front headlamp, side marker and turn signal lamp. If necessary refer to Group 8L, Lamps for service information.

BODY SIDE CLADDING

REMOVAL/FRONT DOOR

(1) Using a trim stick, gently lift up from bottom of cladding. Unsnap molding from retaining clips (Fig. 25)

(2) Lift upward and remove molding.

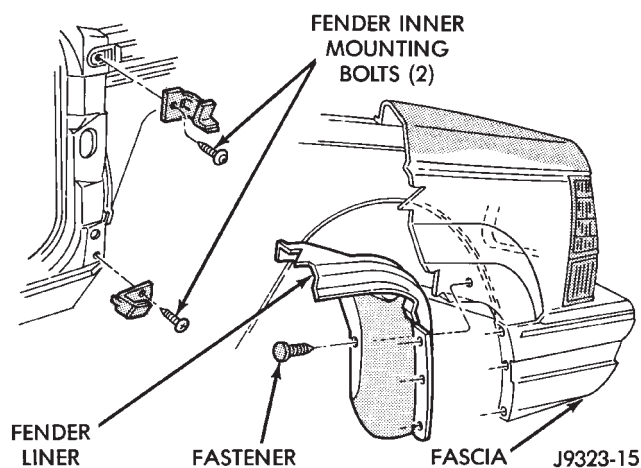


Fig. 23 Inner Fender Mounting

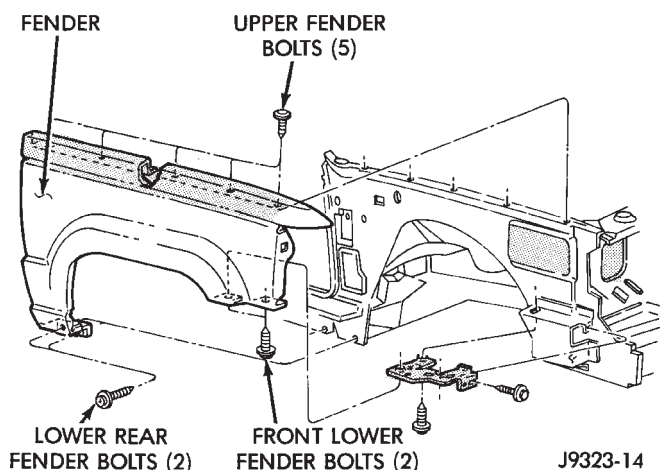


Fig. 24 Fender Mounting

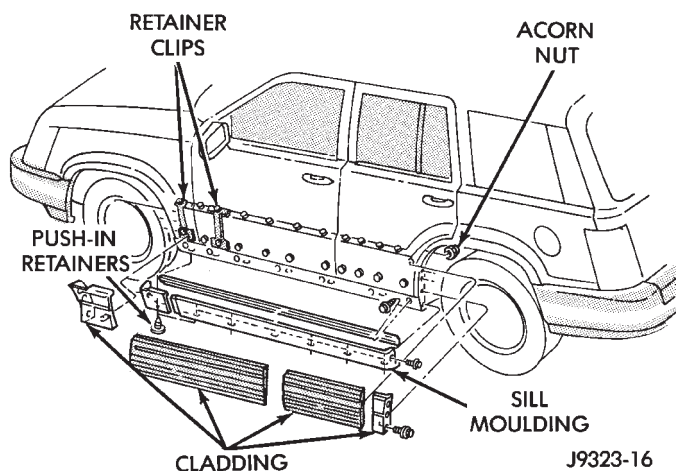


Fig. 25 Body Side Cladding

INSTALLATION/FRONT DOOR

- (1) Install molding over top of retaining clips.
- (2) Align molding to door edges.
- (3) Snap molding down over retaining clips.

REMOVAL/REAR DOOR

- (1) Open rear door.
- (2) Remove acorn nut at rear dogleg (Fig. 25).
- (3) Using a trim stick, gently lift up from bottom of cladding. Unsnap molding from retaining clips.

INSTALLATION/REAR DOOR

- (1) Install molding retainer into hole at dogleg.
- (2) Install molding over top of retaining clips.
- (3) Snap molding down over top of retaining clips.
- (4) Install acorn nut onto retainer.

REMOVAL/FENDER-QUARTER PANEL

- (1) Remove 3 screws at wheel opening.
- (2) Using a trim stick, Gently pry upward from bottom of cladding.
- (3) Unsnap cladding from retainers.

INSTALLATION/FENDER-QUARTER PANEL

- (1) Install molding over top of retainer clips.
- (2) Snap molding down over retaining clips.
- (3) Install 3 screws into wheel opening.

WOODGRAIN (VINYL CLAD METAL) MOLDING

Woodgrain body moldings are attached to outer body panels using various clips and retainers.

REMOVAL/INSTALLATION

- (1) Push down on upper molding and carefully pry molding off along bottom (Fig.26 and 27).
- (2) Pull up on lower molding and carefully pry along top of molding.
- (3) Align molding with retainers and with clips in panel (Fig. 28). Press molding into place on panel.

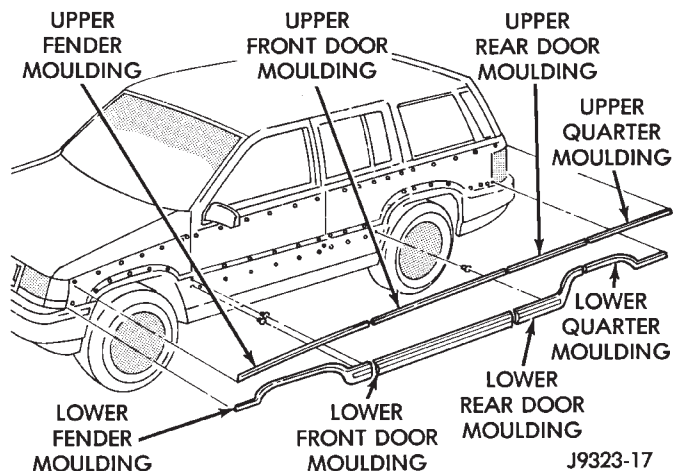


Fig. 26 Body Panel Woodgrain Moldings

WOODGRAIN OVERLAY

REMOVAL

- (1) Remove exterior trim as necessary to clear captured edges of overlay being removed
- (2) Remove overlay using a suitable heat gun or lamp.

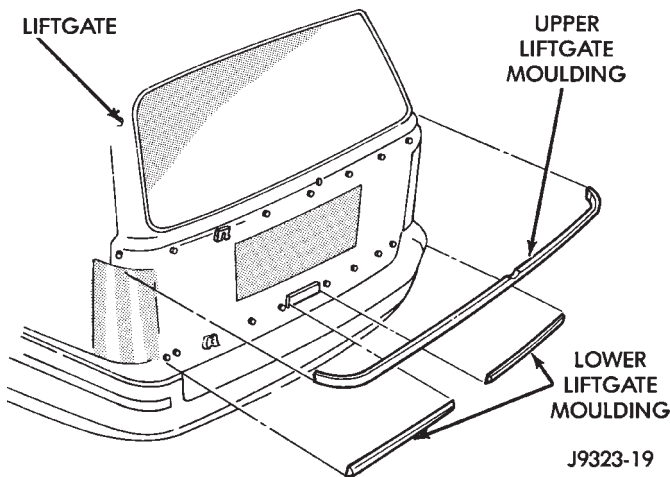


Fig. 27 Liftgate Woodgrain Moldings

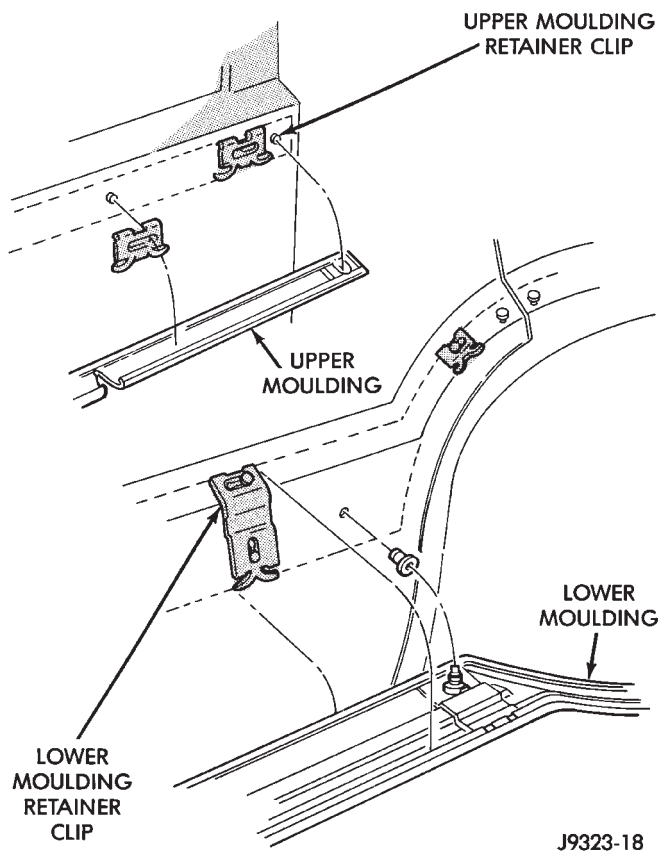


Fig. 28 Woodgrain Molding Attaching Methods

This will soften adhesive backing.

(3) Clean adhesive residue from body finish using a suitable adhesive remover.

INSTALLATION

INSTALLATION EQUIPMENT

- Bucket filled with a mild dish soap solution.
- Lint free applicator cloth or sponge.
- Body putty applicator squeegee.
- Heat gun or sun lamp.

- Razor knife.

The painted surface of body panel to be covered by an overlay must be smooth and completely cured. If painted surface is not smooth, wet sand with 600 grit wet/dry sand paper until surface is smooth.

Ripples and feather edges will read through overlay if surface is not properly prepared.

(1) With backing still in place, position overlay across panel. Apply masking at top of overlay to hold it in position.

(2) Mark outside edge of panel on overlay with grease pencil.

(3) Trim overlay to within 17 mm (0.750 in.) of outline marks.

(4) Spread overlay across a smooth flat work surface, overlay side down.

(5) Peel paper backing away from overlay exposing adhesive backing of overlay.

(6) Apply soap solution liberally to adhesive backing of overlay.

(7) Apply soap solution to body panel surface.

(8) Place overlay into position on body panel. Smooth out wrinkles by pulling lightly on edges of overlay until it lays flat on panel surface.

(9) Push air pockets from under overlay to perimeter of panel from center of overlay out.

(10) Remove air bubbles from under overlay using a body putty squeegee.

CAUTION: Do not cut into painted surface of body when trimming overlay to size.

(11) Trim overlay to size using a razor knife. Leave at least 13 mm (0.5 in.) for edges of doors and openings.

CAUTION: Do not overheat overlay when performing step 12.

(12) Apply heat to overlay to evaporate residual moisture from edges of overlay. This will also allow overlay to be stretched into concave surfaces.

(13) Edge turn overlay around doors or fenders.

(14) Install exterior trim if necessary. Small air or water bubbles under overlay can be pierced with a pin and smoothed out.

BODY STRIPES/DECALS

GENERAL INFORMATION

Body stripes are durable, weather-resistant tape stripes with pressure-sensitive backing (Fig. 26). The tape stripe is protected by a carrier until installed on a body panel. Carrier also is an installation alignment aid.

REMOVAL

(1) Remove exterior trim as necessary to clear captured edges of tape stripe being removed

(2) Remove tape stripe using a suitable heat gun or lamp.

This will soften adhesive backing.

(3) Clean adhesive residue from body finish using a suitable adhesive remover.

INSTALLATION

INSTALLATION EQUIPMENT

- Bucket filled with a mild dish soap solution.
- Lint free applicator cloth or sponge.
- Body putty applicator squeegee.
- Heat gun or sun lamp.
- Razor knife.

The painted surface of the body panel to be covered by a tape stripe must be smooth and completely cured before stripe can be applied. If painted surface is not smooth, wet sand with 600 grit wet/dry sand paper until surface is smooth.

Ripples and feather edges will read through stripe if surface is not properly prepared.

(1) With backing still in place, position stripe across panel to receive the stripe. Apply masking at top of stripe to hold it in position.

(2) Mark outside edge of panel on stripe with grease pencil.

(3) Trim stripe to within 17 mm (0.750 in.) of out-line marks.

(4) Spread stripe across a smooth flat work surface, stripe side down.

(5) Peel paper backing away from stripe exposing adhesive backing of stripe.

(6) Apply soap solution liberally to adhesive backing of stripe.

(7) Apply soap solution to body panel surface.

(8) Place stripe into position on body panel (Fig. 29). Smooth out wrinkles by pulling lightly on edges of tape stripe until it lays flat on panel surface.

(9) Push air pockets from under tape stripe to perimeter of panel from center of the tape stripe out.

(10) Remove air bubbles from under tape stripe using a body putty squeegee.

CAUTION: Do not cut into painted surface of body when trimming tape stripe to size.

(11) Trim tape stripe to size using a razor knife. Leave at least 13 mm (0.5 in.) for edges of doors and openings.

CAUTION: Do not overheat tape stripe when performing step 12.

(12) Apply heat to tape stripe to evaporate residual moisture from edges of tape stripe. This will also allow tape stripe to be stretched into concave surfaces.

(13) Edge turn tape stripe around doors or fenders.

(14) Install exterior trim if necessary. Small air or water bubbles under tape stripe can be pierced with a pin and smoothed out.

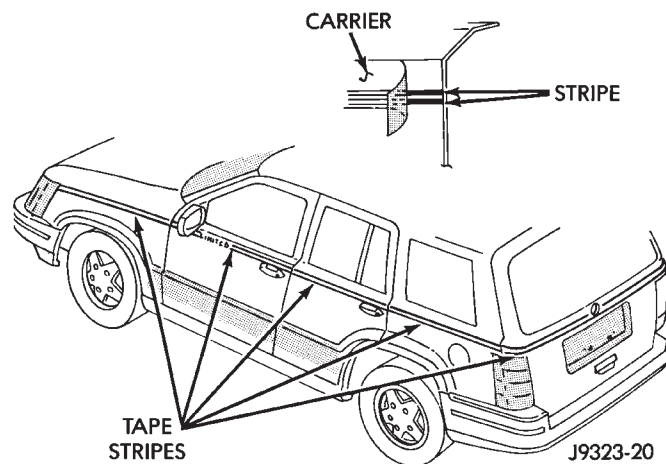


Fig. 29 Tape Stripes

QUARTER WINDOW APPLIQUE/AIR EXHAUSTER

REMOVAL

(1) Carefully pry applique from panel (Fig. 30).

(2) Carefully pry air exhauster from upper quarter panel using a flat blade screwdriver.

INSTALLATION

(1) Reseal air exhauster using foam tape.

(2) Install air exhauster on panel.

(3) Position applique on panel with retainers aligned (Fig. 30). Press applique firmly in place.

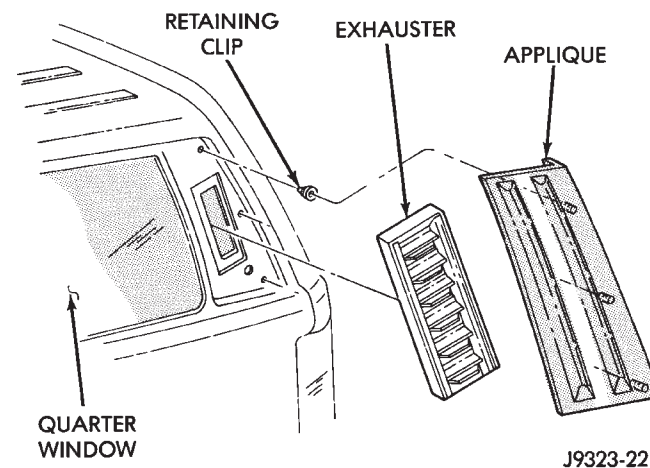


Fig. 30 Quarter Window Applique & Air Exhauster

EXTERIOR NAMEPLATES

SERVICE INFORMATION

All of the vehicle exterior nameplates (Fig. 31), are attached to the vehicle panels with adhesive.

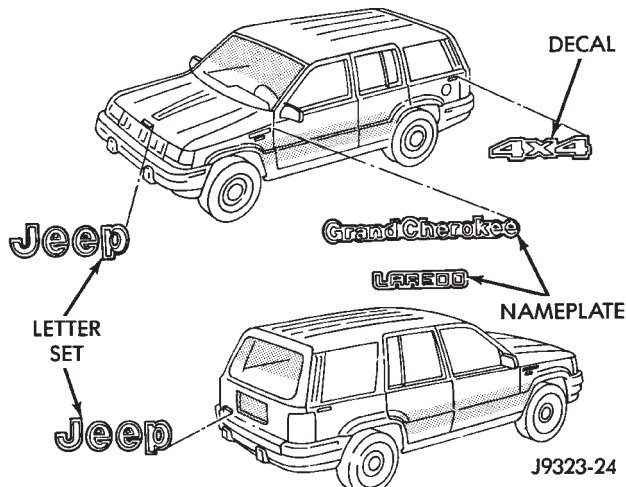


Fig. 31 Exterior Nameplates

REMOVAL/INSTALLATION

- (1) Carefully pry nameplate (Fig. 31) from body panel.
- (2) Clean panel surface.
- (3) Position replacement nameplate on panel and push inward to seat it.

EXTERNAL MIRRORS

REMOVAL

- (1) Remove door trim panel.
- (2) Remove mirror inside trim cover attaching screw.
- (3) For power mirrors, remove inside trim cover.
- (4) For remote control mirrors, loosen toggle control setscrew.
- (5) For remote control mirrors, remove inside trim cover.
- (6) Remove mirror retaining nuts.
- (7) Remove mirror from door. Refer to Group 8—Electrical for additional information involving power mirrors.

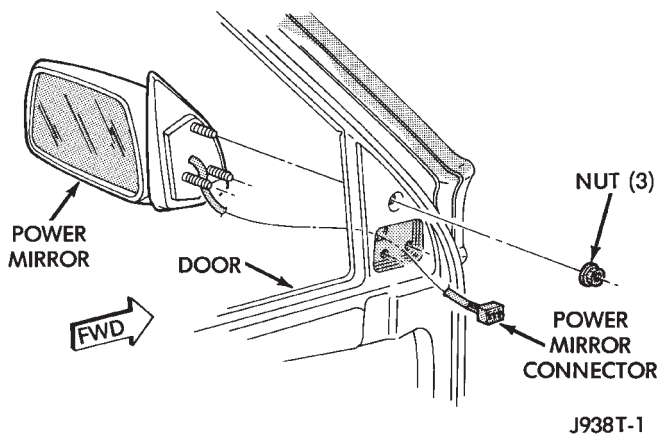


Fig. 32 Exterior Mirror

INSTALLATION

- (1) Position mirror on door. Verify that the O-ring seal and gasket are properly positioned.
- (2) Install mirror retaining nuts.
- (3) For remote mirrors, position inside trim cover over toggle control. Tighten setscrew.
- (4) Install inside trim cover.
- (5) Install inside trim cover attaching screw and tighten it securely.
- (6) Install door trim panel.

LUGGAGE RACK

REMOVAL

- (1) Remove slide rail screws (Fig. 33).

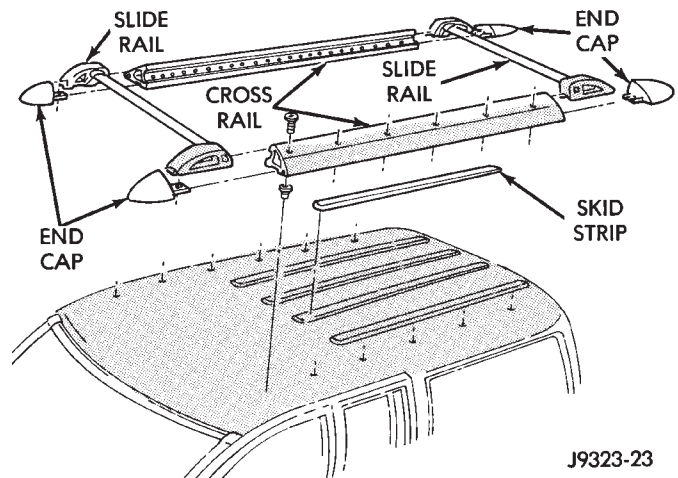


Fig. 33 Luggage Rack

- (2) Remove luggage rack from vehicle roof.

The skid strips are attached to roof panel with adhesive.

- (3) Loosen each skid strip (Fig. 33) with a heat gun.
- (4) Lift one edge of each skid strip with a putty knife and peel it from roof panel. Apply additional heat to any location where a skid strip remains.
- (5) Remove original adhesive from roof panel with an all-purpose adhesive removal solution.

INSTALLATION

- (1) Install 3M 06379 double-sided tape on skid strips.
- (2) Align each skid strip on roof panel.
- (3) Verify that each skid strip is properly aligned.
- (4) Press each skid strip onto roof panel with a roller.

Apply 3M Drip-Chek Sealant (or an equivalent product) to underside of side rail screw heads.

- (5) Position luggage rack on roof (Fig. 33).
- (6) Install and tighten slide rail screws to 3 N•m (28 in-lbs) torque.

POWER SUNROOF

INDEX

	page		page
Adjustment Bracket	13	Glass Vertical Height Adjustment	12
Drain Channel	13	Guide Assembly	14
Drive Cable Locators	13	Motor and Drive Gears	13
Drive Cables	14	Sunshade	14
General Information	12	Wind Deflector	12
Glass Panel	13		

GENERAL INFORMATION

All sunroofs are equipped with drain tubes that are located in the A, B or D-pillars. The drain tubes must be kept open to prevent water from entering passenger compartment.

LUBRICATION

- (1) Lubricate cables with Lubriplate or equivalent when cables are replaced.
- (2) Periodically clean dirt from guide rail covers.

DRAIN TUBES

- Inspect drain holes, located in trough around sunroof opening to verify they are clear. Inspection should be performed once a year or when problems are suspected. If drain hose or tubes are plugged, use compressed air or blunt flexible wire to clear them. If tubes cannot be cleared, they must be repaired.
- The lower ends of rear drain tubes are located in rear quarter panel drop wells. To clear rear drain tubes, use compressed air or blunt flexible wire from lower ends of tubes.

GLASS VERTICAL HEIGHT ADJUSTMENT

GLASS VERTICAL ADJUSTMENT

- (1) Open glass to vent position.
- (2) Slide upper half of mechanism covers rearward until clips disengage and separate covers from vehicle (Fig. 1).
- (3) Close glass panel, separately loosen adjusting bolts and individually adjust the corners of the glass.
- (4) Adjust front of glass panel to 1.0 mm (0.040 in.) below top surface of roof panel.
- (5) Adjust rear of glass to 1.0 mm (0.040 in.) above top surface of roof panel.
- (6) Secure adjustment bolts and install cover.

WIND DEFLECTOR

REMOVAL

- (1) Open sun roof glass panel.
- (2) Remove screws holding wind deflector to sun roof unit side rail (Fig. 2).
- (3) Separate wind deflector from vehicle.

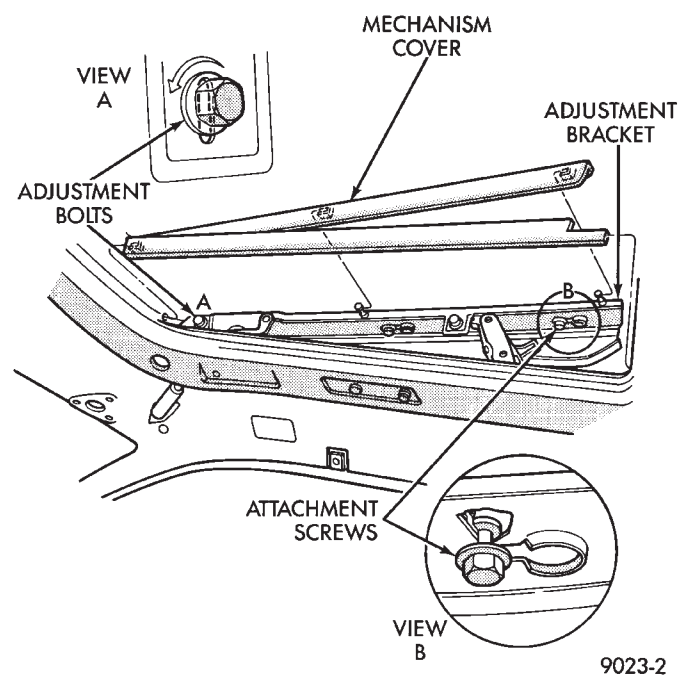


Fig. 1 Glass Adjustment

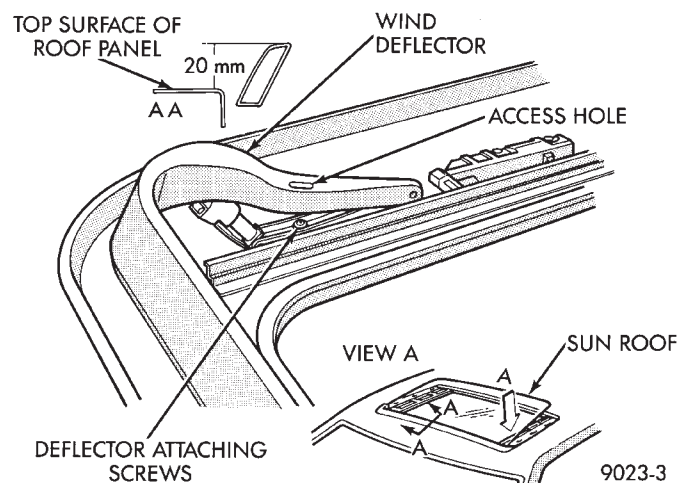


Fig. 2 Deflector Assembly

INSTALLATION

Reverse preceding operation.

WIND DEFLECTOR ADJUSTMENT

- (1) Open sunroof.
- (2) Position wind deflector so 19 mm (0.75in.) above top surface of roof panel and 1 mm (0.040 in.) rearward of roof panel forward edge (Fig. 2).
- (3) Secure wind deflector to sunroof unit.

GLASS PANEL**REMOVAL**

- (1) Remove wind deflector mechanism covers (Fig. 1)
- (2) Position glass to vent position.
- (3) Position sunshade full rearward.
- (4) Loosen nuts holding glass panel to side adjustment brackets.
- (5) Slide glass panel rearward 12mm (0.5in.) and separate glass from sunroof unit.

INSTALLATION

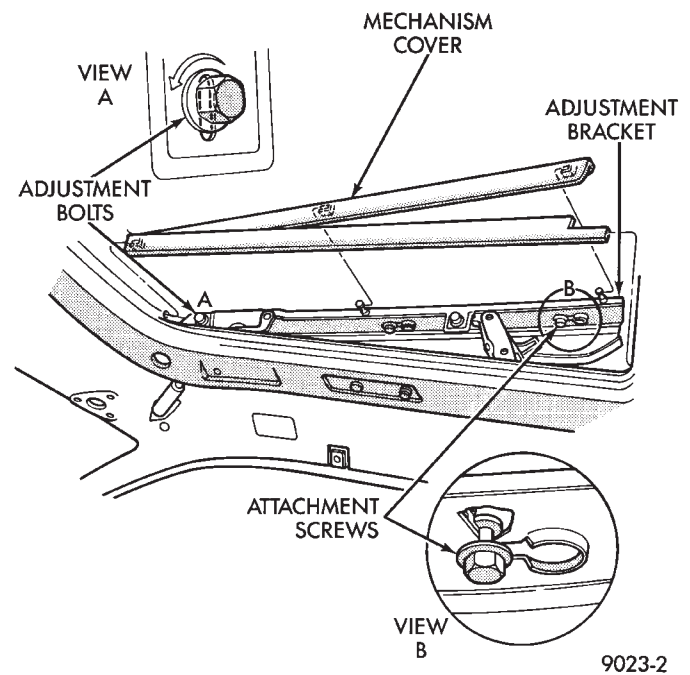
- (1) Position glass panel in opening with logo rearward and slide panel forward 12 mm (0.5in.).
- (2) Verify that attaching nuts are below top surface of glass adjustment brackets.
- (3) Close sunroof to center glass panel in roof opening.
- (4) Tighten center screws to hold adjustment.
- (5) Open glass to vent position and tighten nuts to 8 N•m (70.8 in. lbs.).
- (6) Close glass and check alignment.
- (7) Install mechanism covers.
- (8) Adjust wind deflector, if necessary.

ADJUSTMENT BRACKET**REMOVAL AND INSTALLATION**

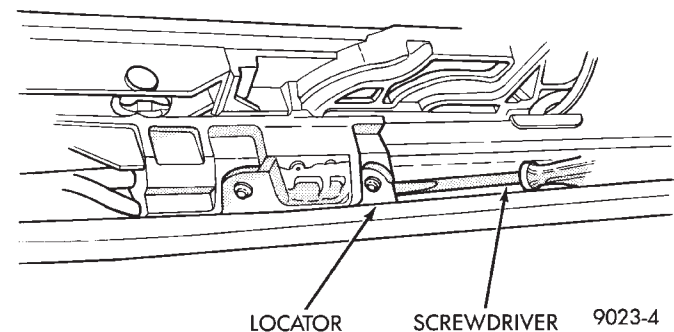
- (1) Remove wind deflector, mechanism covers and glass panel.
- (2) Move glass carriage to vent position and remove rearward adjustment bolt from adjustment bracket.
- (3) Lift rear of adjustment bracket to highest vertical position and disengage front of bracket from unit (Fig. 3).
- (4) For installation reverse the preceding operation. Adjust glass, and wind deflector as necessary.

DRAIN CHANNEL**REMOVAL AND INSTALLATION**

- (1) Remove wind deflector mechanism covers and glass panel.
- (2) Locate glass carriage to vent position and drain channel in full forward position.
- (3) Remove screws holding drain channel to support frame.
- (4) For installation reverse preceding operation.

**Fig. 3 Glass Height Vertical Adjustment****DRIVE CABLE LOCATORS****REMOVAL AND INSTALLATION**

- (1) Position glass 19 mm (0.75 in.) until rearward cable locator is visible.
- (2) Remove screws holding drive cable locator to unit.
- (3) Remove travel limiting micro switch grommet and disconnect wire connector.
- (4) Insert a small screwdriver under rear edge of locator and pry locator from track Fig. 4.

**Fig. 4 Removing Cable Drive Locator**

- (5) For installation reverse preceding operation. The small out-board lip underneath cable locator slips under bottom slot on guide track. After locator is seated install screws.

MOTOR AND DRIVE GEARS**REMOVAL**

- (1) Open sunroof to vent position.
- (2) Remove headlining.

(3) Remove bolts holding sunroof motor to motor bracket.

(4) Disconnect wire connector.

(5) Separate motor and drive gear from drive cables
Fig. 5.

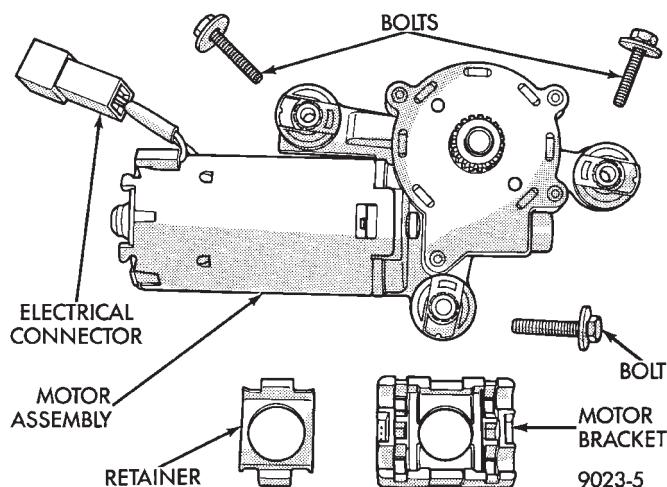


Fig. 5 Sunroof Motor And Drive Gear

INSTALLATION

(1) Verify that sunroof is in vent position. Push mechanism forward on both sides to align drive cables.

(2) Engage drive gears onto drive cables.

(3) Install motor and drive gear screws and tighten to 5 Nm (44in-lbs.).

(4) Install headlining.

DRIVE CABLES

REMOVAL

(1) Open sunroof to vent position.

(2) Remove headlining, wind deflector, mechanism covers, glass panel, side glass adjustment brackets, motor and drive cable locators.

(3) Lift cable out of cable retainer and pull forward. Separate cable from assembly Fig. 6.

INSTALLATION

Verify sunroof is in vent position. Push mechanism forward on both sides to align drive cables. Reverse the preceding operation.

SUNSHADE

REMOVAL AND INSTALLATION

(1) Remove wind deflector, mechanism covers and glass panel.

(2) Position system to full rearward position.

(3) Slide sunshade panel full forward and release the front tabs from track assembly.

(4) Pull rear retaining clip inboard and lift sunshade out Fig. 7.

(5) For installation reverse preceding operation.

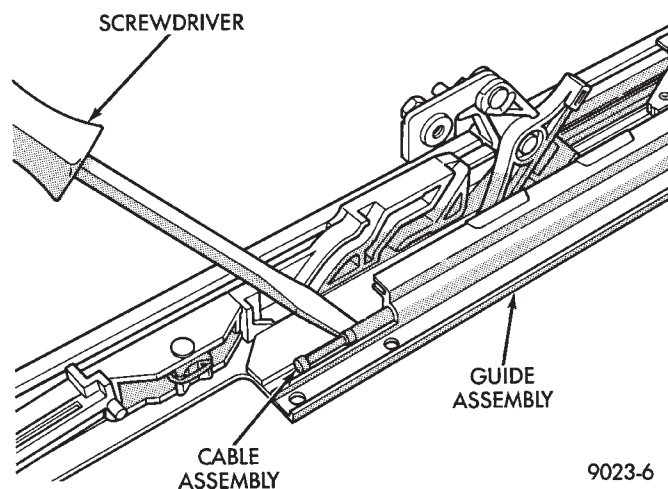


Fig. 6 Drive Cables

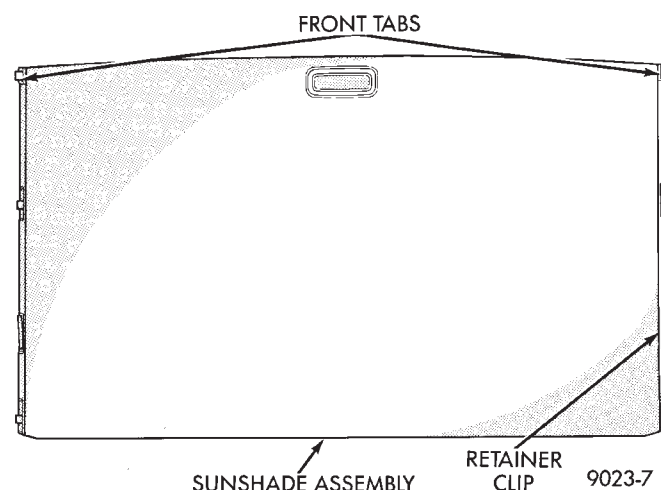


Fig. 7 Sunshade Assembly

GUIDE ASSEMBLY

REMOVAL

(1) Remove wind deflector, mechanism covers, glass panel, drain channel, sunshade and drive cable locator as necessary.

(2) Move glass carriage to vent position.

(3) Remove front slide from guide assembly.

(4) Remove screws holding front and center guide track to unit.

(5) Pull cable out of groove for cable end.

(6) Pull guide outward to release from housing. Separate rear end of guide from clips. Slide guide out of unit Fig. 8.

INSTALLATION

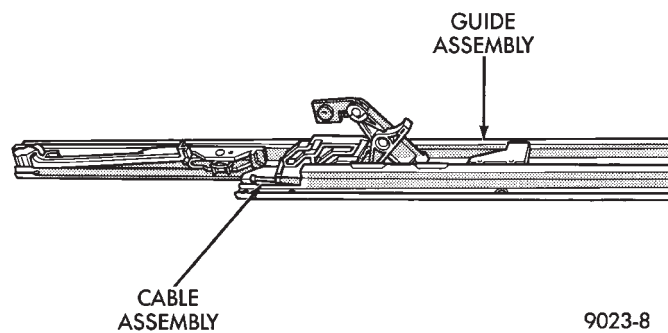
(1) Install guide cable into rear of guide assembly.

(2) Install guide assembly at an angle so the rear portion slips under finger clips at rear of module housing.

(3) Place cable in groove of cable holder.

(4) Install screws in track assembly.

(5) Install locators.



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Fig. 8 Guide Assembly

(6) Reverse removal operation.

DOORS

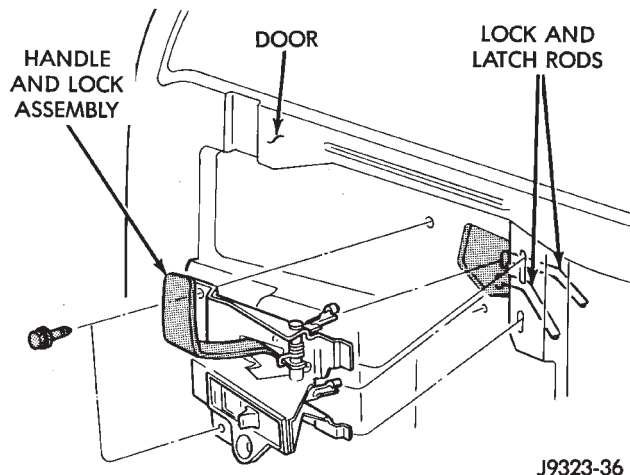
INDEX

	page		page
Door Alignment Adjustment—Minor	17	Front Door Trim Panel	15
Door Inside Latch Release and Lock Rods	21	Front Door Window	18
Door Key Lock Cylinder	19	Front Door Window Regulator	18
Door Latch	20	Liftgate	22
Door Latch Adjustment	19	Outside Door Handle	20
Door Removal/Installation	16	Rear Door Window	19
Door Window Exterior Moldings	21	Rear Door Window Regulator	18
Door Window Glass and Door Opening Seals	21		

FRONT DOOR TRIM PANEL

REMOVAL

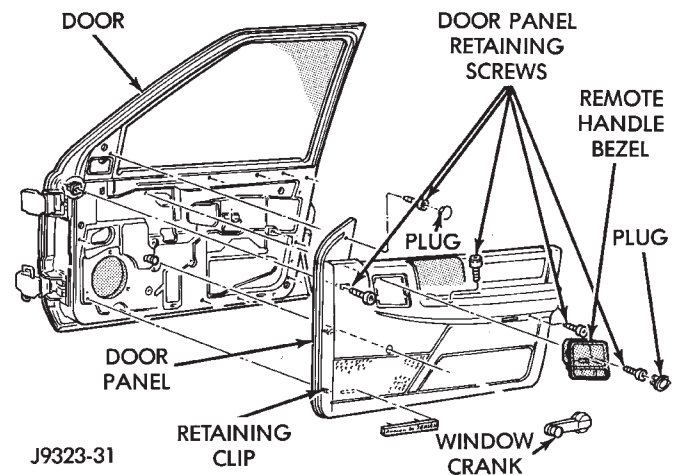
(1) Remove inside release handle assembly screws (Fig. 1).



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Fig. 1 Front Door Inside Latch Release Handle

- (2) Disconnect handle latch and lock rods.
- (3) Remove window crank handle (Fig. 2).
- (4) Remove screw at armrest (Fig. 2).
- (5) Remove screw at window demister slot (Fig. 2).



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Fig. 2 Door Panel

- (6) Remove screw at the upper mirror bezel (Fig. 2).
- (7) Detach trim panel perimeter retainers from door inner panel with an appropriate pry tool (Fig. 2).
- (8) If equipped, disconnect the wiring connectors from power switch panel.
- (9) Remove trim panel from door (Fig. 2).
- (10) If necessary, remove waterdams from door.
- (11) If necessary, remove power switches from door panel (Figs. 3 and 4).

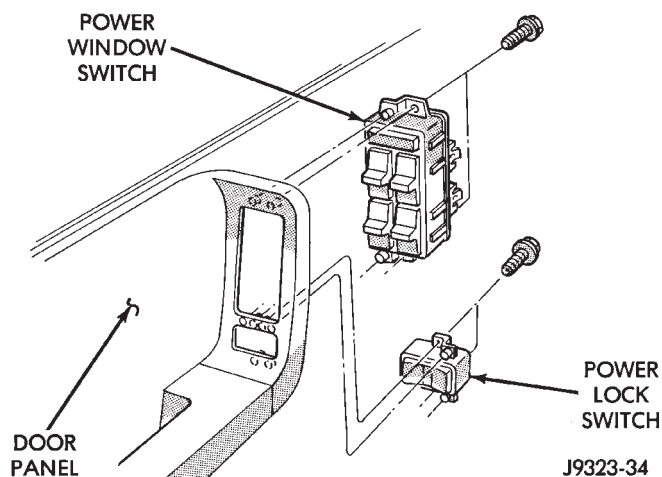


Fig. 3 Left Power Door Switches

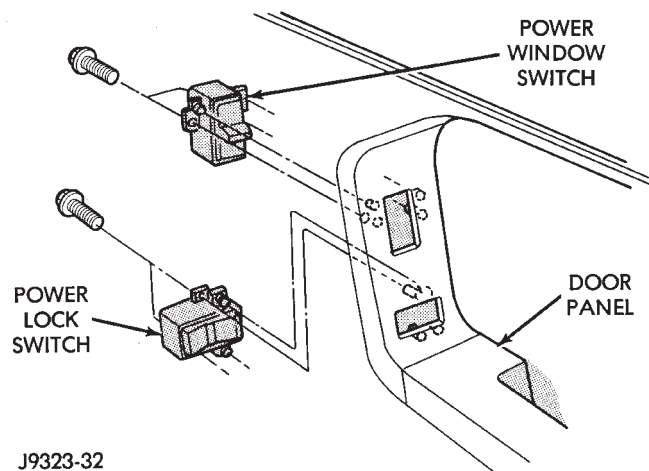


Fig. 4 Right Power Door Switches

INSTALLATION

- (1) Apply adhesive/sealant to edges of door waterdam.
- (2) Position waterdam on door inner panel. Press it inward to attach it to inner panel.
- (3) If removed, install power door switches (Figs. 3 and 4).
- (4) Position trim panel on door inner panel. For vehicles equipped with power door locks/windows, connect wire harness connectors. Press nylon retainers inward to attach it to inner panel (Fig. 2).
- (5) Install armrest screw. Install demister slot screw. Install mirror bezel screw (Fig. 2). Tighten screws to 4 N•m (34 in-lbs) torque.
- (6) Install window crank handle (Fig. 2).
- (7) Connect rods to inside handle assembly. Install handle assembly (Fig. 2). Tighten screws to 2 N•m (16 in-lbs) torque.

DOOR REMOVAL/INSTALLATION

- (1) For vehicles equipped with power windows and locks, remove door trim panel. Disconnect power window regulator, power door lock motor and all other wire harness connectors. Slide wire harness out of boot and door.
- (2) Mark an outline around door hinges for installation alignment reference.
- (3) Remove door hinge covers, retaining bolts, plates and shims (Fig. 5). Remove door from vehicle.

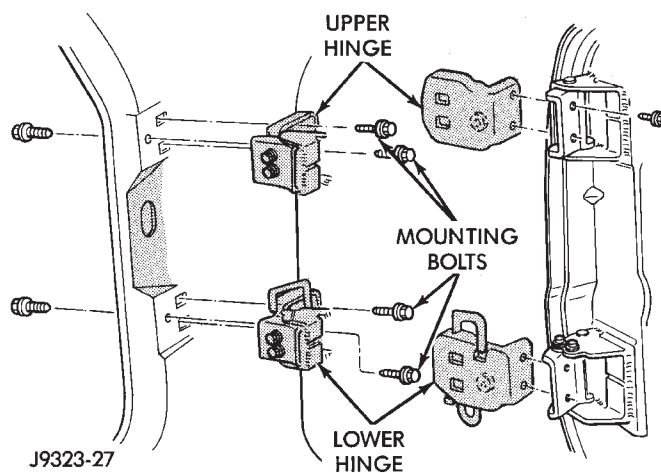


Fig. 5 Door Hinges and Bolts

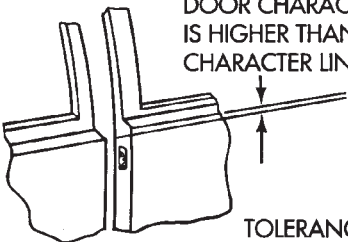
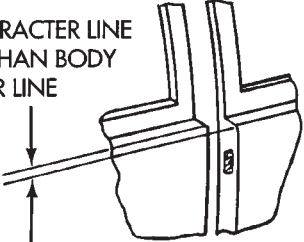
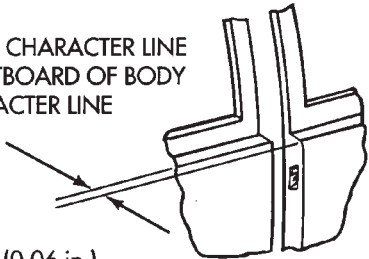
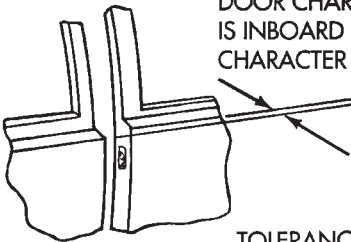
- (4) Identify and retain door hinge plates and shims for correct installation (Fig. 5).
- (5) If a replacement front door is being installed, coat door interior with anti-corrosion wax. Also, seal door hem flange with sealant.
- (6) Before installing a replacement door, transfer original hardware. If necessary, refer to applicable procedures.
- (7) Position door in body opening.
- (8) Align door hinges, plates and shims with bolt holes. Install (but do not tighten) hinge bolts, install hinge covers (Fig. 5).
- (9) Adjust door to reference marks. If necessary, refer to adjustment procedure. Tighten hinge bolts to 35 N•m (26 ft-lbs) torque.
- (10) Adjust latch striker as necessary.
- (11) If applicable, route and connect harness connectors to door and vehicle body wire harness connectors.
- (12) Install door waterdam (if removed), trim panel, armrest and window glass regulator handle. If necessary, refer to trim panel installation procedure.

DOOR ALIGNMENT ADJUSTMENT—MINOR

Minor adjustment of door position within body opening is done by moving the latch striker. Refer to

Door Alignment (Minor) chart.

DOOR ALIGNMENT—MINOR

DOOR/BODY ALIGNMENT CONDITION	ALIGNMENT CORRECTION
<p>A.</p>  <p>DOOR CHARACTER LINE IS HIGHER THAN BODY CHARACTER LINE</p> <p>TOLERANCE: 1.5 mm (0.06 in.)</p>	<ol style="list-style-type: none"> 1 Open the door and loosen the striker. 2 Tap the striker downward a sufficient distance to correct mismatch. 3 Tighten the striker and close the door. 4 Observe the door/body alignment. 5 If alignment is OK, open the door and tighten striker* with 71 N·m (52 ft. lbs.) torque. 6 If alignment is not OK, adjust striker as described above.
<p>B.</p>  <p>DOOR CHARACTER LINE IS LOWER THAN BODY CHARACTER LINE</p> <p>TOLERANCE: 1.5 mm (0.06 in.)</p>	<ol style="list-style-type: none"> 1 Open the door and loosen the striker. 2 Tap the striker upward a sufficient distance to correct mismatch. 3 Tighten the striker and close the door. 4 Observe the door/body alignment. 5 If alignment is OK, open the door and tighten the striker* with 71 N·m (52 ft. lbs.) torque. 6 If alignment is not OK, adjust striker as described above.
<p>C.</p>  <p>DOOR CHARACTER LINE IS OUTBOARD OF BODY CHARACTER LINE</p> <p>TOLERANCE: 1.5 mm (0.06 in.)</p>	<ol style="list-style-type: none"> 1 Open the door and loosen the striker. 2 Tap the striker inward a sufficient distance to correct mismatch. 3 Tighten the striker and close the door. 4 Observe the door/body alignment. 5 If alignment is OK, open the door and tighten the striker* with 71 N·m (52 ft. lbs.) torque. 6 If alignment is not OK, adjust striker as described above.
<p>D.</p>  <p>DOOR CHARACTER LINE IS INBOARD OF BODY CHARACTER LINE</p> <p>TOLERANCE: 1.5 mm (0.06 in.)</p>	<ol style="list-style-type: none"> 1 Open the door and loosen the striker. 2 Tap the striker outward a sufficient distance to correct mismatch. 3 Tighten the striker and close the door. 4 Observe the door/body alignment. 5 If alignment is OK, open the door and tighten the striker* with 71 N·m (52 ft. lbs.) torque. 6 If alignment is not OK, adjust striker as described above.
<p>*The center line (E) of the striker anti-sag tab must be horizontal (± 6 mm/1/4 in.).</p>	

FRONT DOOR WINDOW REGULATOR

REMOVAL

- (1) Remove door trim panel and waterdam. If necessary, refer to removal procedure.
- (2) Position window glass to access window track nuts (Fig. 6).

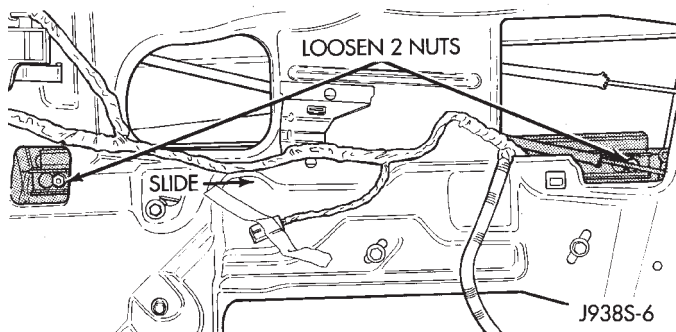


Fig. 6 Front Door Window Track

- (3) Loosen 2 window track nuts and slide track off of the window (Fig. 6).
- (4) Remove 4 window regulator retaining screws (Fig. 7).

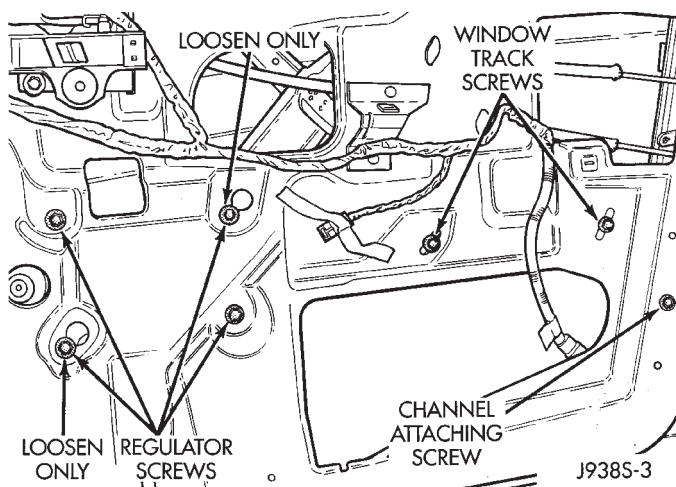


Fig. 7 Front Door Window Regulator

- (5) Remove 2 door track screws (Fig. 7)
 - (6) Lift window upward and separate it from regulator. Support window.
 - (7) Remove window regulator from door.
- Reverse removal procedure for installation.

FRONT DOOR WINDOW

REMOVAL

- (1) Remove door trim panel and waterdam. If necessary, refer to removal procedure.
- (2) Remove beltline molding and weatherstrip seals.

- (3) Remove window track retaining nuts (Fig. 6). If necessary, refer to removal procedure.
 - (4) Lift window glass upward and out of door.
- For installation, reverse removal procedure.

REAR DOOR WINDOW REGULATOR

REMOVAL

- (1) Remove door trim panel and waterdam. If necessary, refer to removal procedure.
- (2) Position window glass to access window track nuts (Fig. 8).

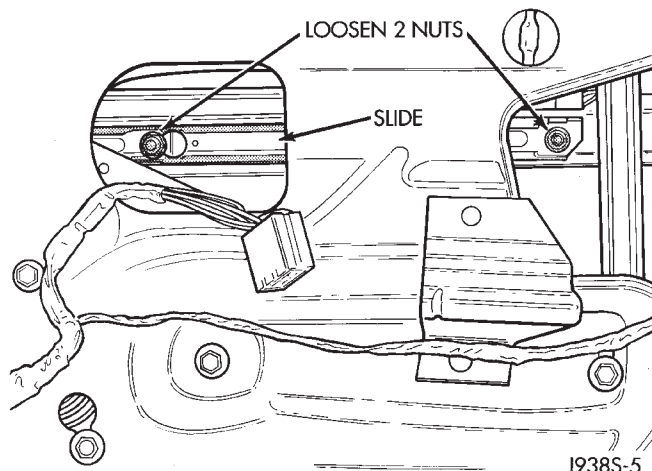


Fig. 8 Rear Door Window Track

- (3) Loosen 2 window track nuts and slide track off of window (Fig. 8).
- (4) Remove 4 window regulator retaining screws (Fig. 9).

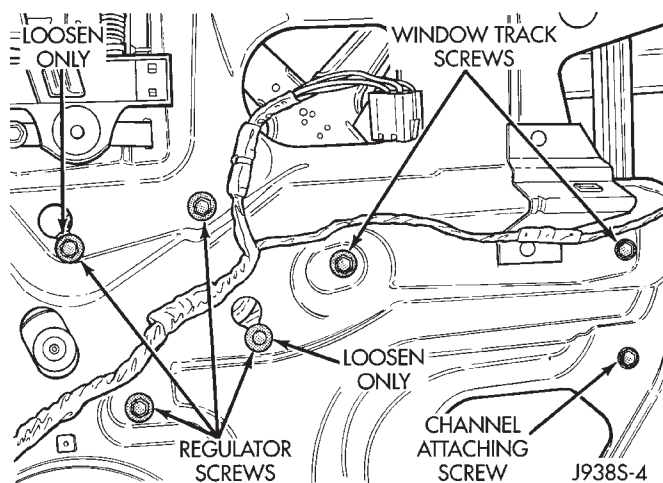


Fig. 9 Rear Door Window Regulator

- (5) Remove 2 door track screws (Fig. 9)
 - (6) Lift window upward and separate it from regulator. Support window.
 - (7) Remove window regulator from door.
- Reverse removal procedure for installation.

REAR DOOR WINDOW

REMOVAL

- (1) Lower window glass.
- (2) Pry window beltline molding from flange. Remove molding from door.
- (3) Remove window weatherstrip seals from door.
- (4) Remove trim panel and waterdam from door inner panel. If necessary, refer to removal procedure.
- (5) Remove window track nuts and slide track off of window (Fig. 8).
- (6) Remove division bar upper attaching screw and belt line screw (Fig. 10).

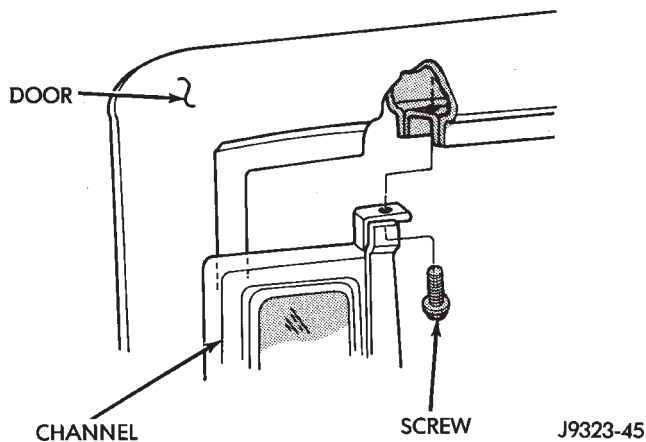


Fig. 10 Stationary Glass Channel

- (7) Tilt stationary glass channel assembly forward and remove it from door.
- (8) Remove window glass from door.

INSTALLATION

- (1) Install window glass in door.
- (2) Tighten glass track nuts to 6 N•m (53 in-lbs) torque.
- (3) Install stationary glass channel in door.
- (4) Install stationary glass channel screws (Fig. 10). Tighten screw to 6 N•m (5 ft-lbs) torque.
- (5) Install window glass channel and belt weatherstrip seals.
- (6) Install window beltline molding.
- (7) Install door waterdam and trim panel. If necessary, refer to installation procedure.

DOOR KEY LOCK CYLINDER

REMOVAL

- (1) Remove door trim panel and waterdam. If necessary, refer to removal procedure.
- (2) Disconnect door latch lock cylinder rod at door latch (Fig. 11).
- (3) If equipped, disconnect security alarm switch connector from lock cylinder (Fig. 12).
- (4) Remove key lock cylinder retainer clip. Remove

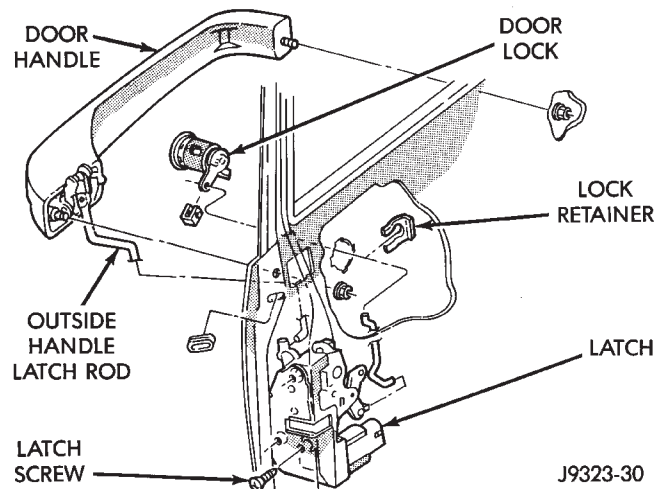


Fig. 11 Key Lock Cylinder & Door Latch

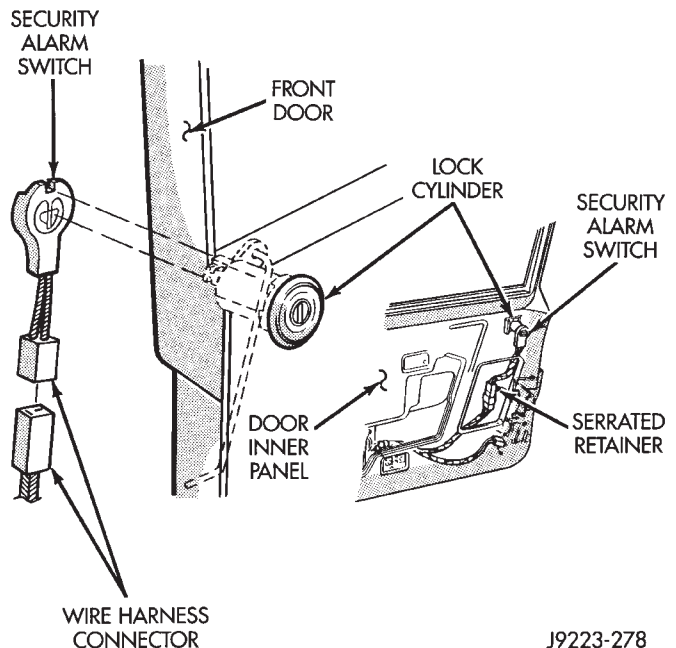


Fig. 12 Security Alarm Switch

lock cylinder, gasket and clip from door (Fig. 13).

- (5) If applicable, remove door latch lock cylinder rod from original lock cylinder. Connect it to replacement lock cylinder (Fig. 13).

For installation, reverse removal procedure.

DOOR LATCH ADJUSTMENT

- (1) Locate access hole (Fig. 14).
- (2) Insert a 5/32-inch hex-wrench through hole and into adjustment screw (Fig. 14). Loosen screw.
- (3) Operate outside handle button several times to release any restriction because of mis-alignment.
- (4) Tighten adjustment screw to 3 N•m (30 in-lbs) torque.
- (5) Test handle button and lock cylinder for proper operation.

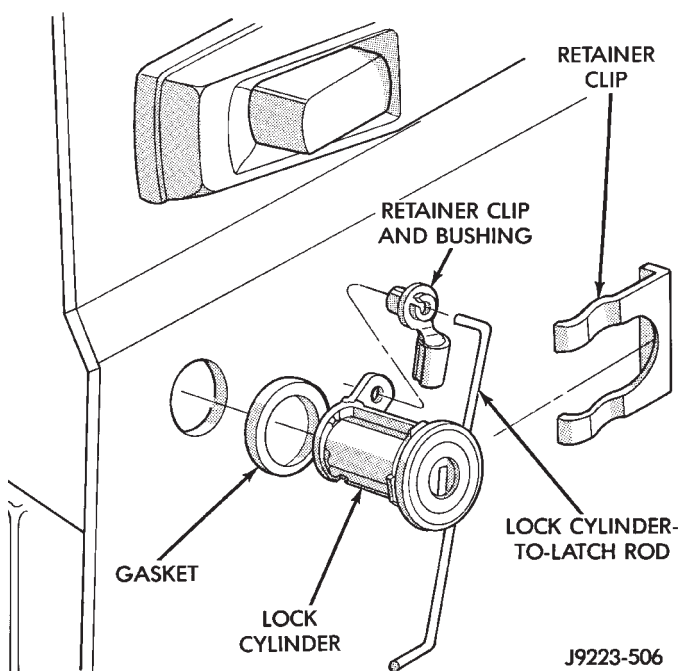


Fig. 13 Key Lock Cylinder Removal/Installation

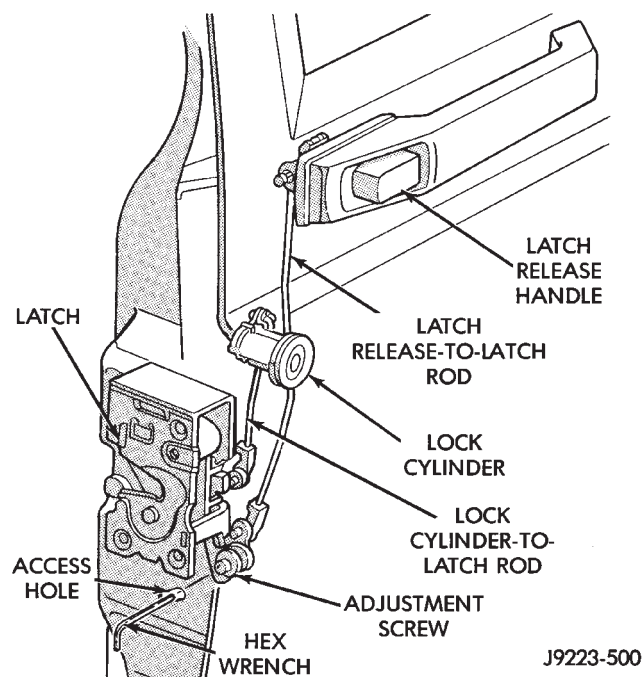


Fig. 14 Door Latch Adjustment

OUTSIDE DOOR HANDLE

REMOVAL

- (1) Remove door trim panel and waterdam. If necessary, refer to installation procedure.
- (2) Remove access hole cover (Fig. 15). Remove door handle retaining nuts (Fig. 16).

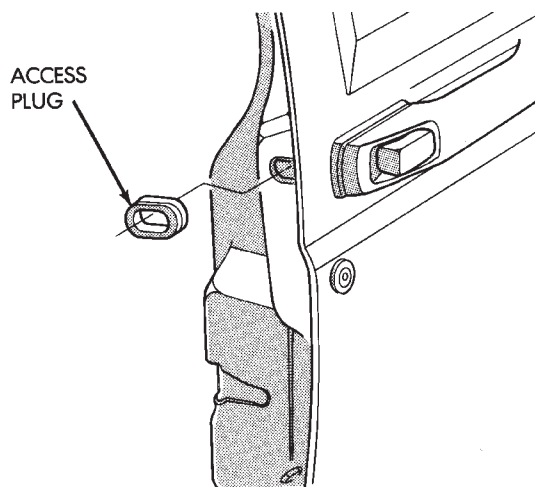


Fig. 15 Access Plug

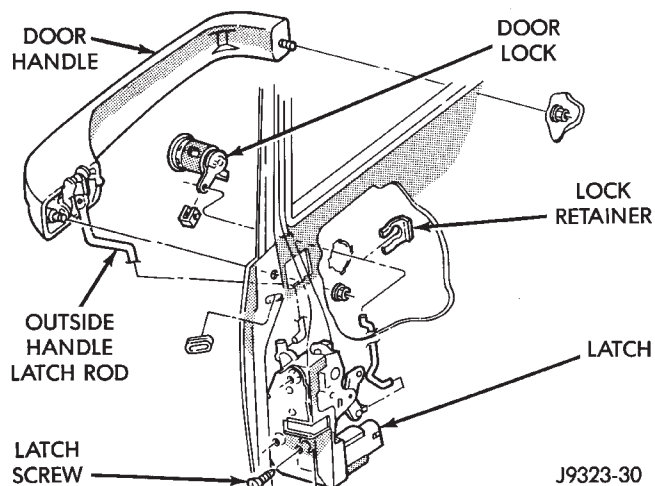


Fig. 16 Outside Door Handle

- (3) Disconnect handle latch rod from latch (Fig. 16).
 - (4) Remove gaskets from door, if necessary.
- For installation, reverse removal procedure.

DOOR LATCH

REMOVAL

- (1) Remove door trim panel and waterdam. If necessary, refer to removal procedure.
 - (2) Remove door latch retaining screws (Fig. 17).
 - (3) Disconnect all rods from door latch (Fig. 18).
 - (4) Remove door latch from door.
- For installation, reverse removal procedure.

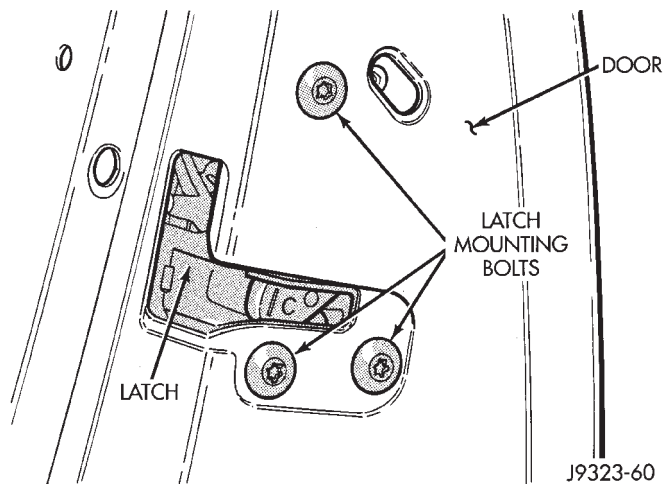


Fig. 17 Door Latch Retaining Screws

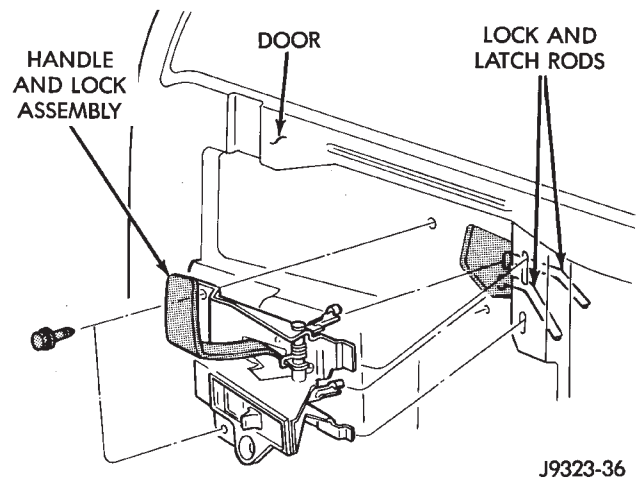


Fig. 19 Front Door Inside Latch Release Handle

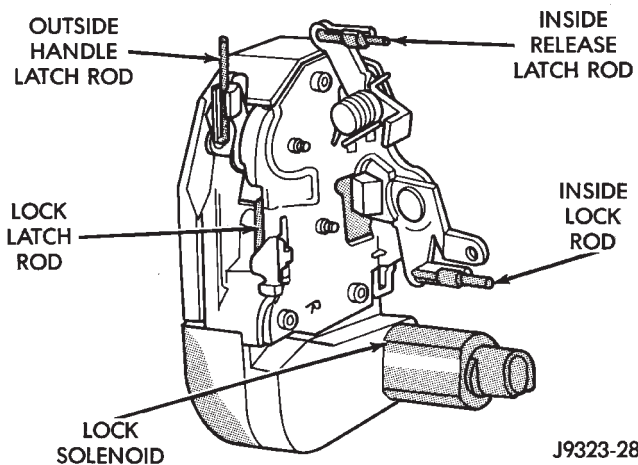


Fig. 18 Door Latch

DOOR INSIDE LATCH RELEASE AND LOCK RODS

REMOVAL

- (1) Remove door trim panel and waterdam. If necessary, refer to removal procedure.
- (2) Remove door inside latch release handle screws (Figs. 19 and 20).
- (3) Move door release handle outward. Disconnect handle latch and lock rods.
- (4) Remove door inside release handle from door. For installation, reverse removal procedure.

DOOR WINDOW EXTERIOR MOLDINGS

REMOVAL

- (1) Lower window glass completely.
- (2) Carefully pull molding from door panel flange and/or retaining clips.

INSTALLATION

- (1) When installing window moldings, start at forward end of molding.
- (2) Force molding onto door flange. Continue rearward until it is seated on flange.

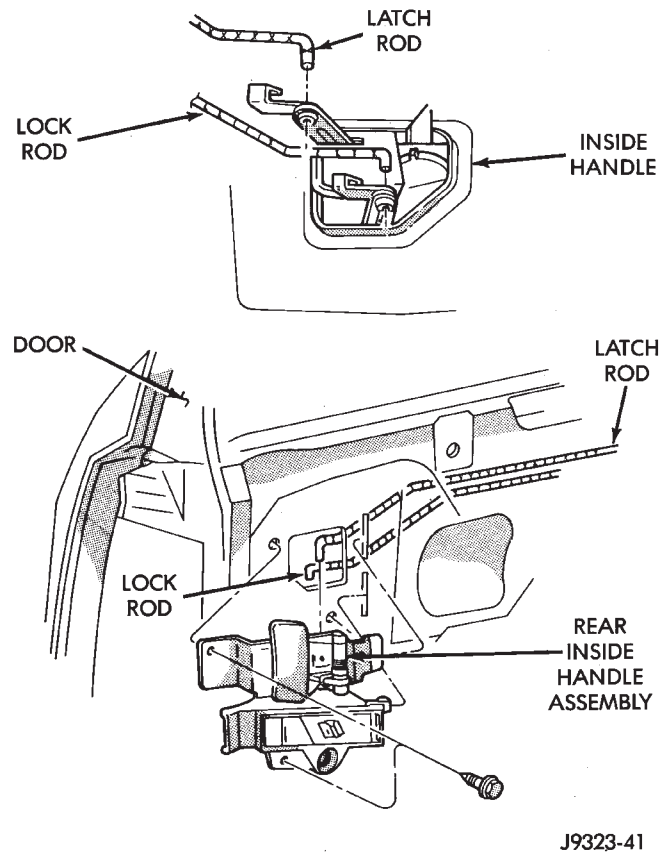


Fig. 20 Rear Door Inside Latch Release Handle

- (3) Mate rear molding with upper molding. Force molding edge inward.
- (4) Continue pressing downward to complete installation.

DOOR WINDOW GLASS AND DOOR OPENING SEALS

The window glass seals can be removed by hand.

The door opening seal is attached to edge of door opening in body. The front door secondary seal is attached to A-pillar.

WINDOW GLASS SEAL INSTALLATION

When installing front or rear door window glass weatherstrip seals, open window completely.

- (1) To install a front door window channel weatherstrip seal, start at upper, rear corner.
- (2) To install a rear door window glass channel weatherstrip seal, start at upper, front corner.
- (3) Install seal evenly until it is fully seated in channel.
- (4) Position belt weatherstrip seals at window edge. Force them downward until seated on flange.

DOOR OPENING WEATHERSTRIP SEAL INSTALLATION

- (1) When installing a door opening weatherstrip seal, start at rear of front seal and front of rear seal using paint dots as location points.
- (2) Use adhesive along with push-studs to aid in retaining a weatherstrip seal.
- (3) Move upward and around edge of door opening. Seat seal on flange.

LIFTGATE

TRIM PANEL

REMOVAL

- (1) Remove the CHMSL access panel. Remove the 6 screws that attach liftgate panel to liftgate (Fig. 21).
- (2) Use a trim panel removal tool to detach panel retainers from liftgate (Fig. 22).

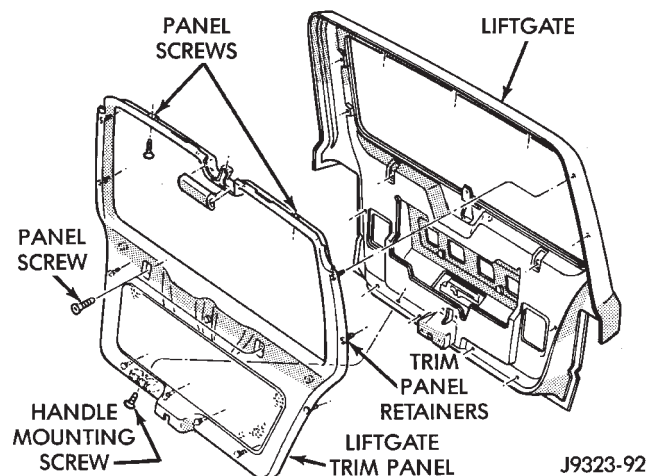


Fig. 21 Liftgate Trim Panel

- (3) Remove trim panel from liftgate.

INSTALLATION

- (1) Position trim panel on liftgate.
- (2) Align trim panel retainers with holes in liftgate inner panel. Force trim panel inward to seat retainers in holes (Fig. 22).
- (3) Install screws to attach panel to liftgate (Fig. 21). Tighten screws securely.

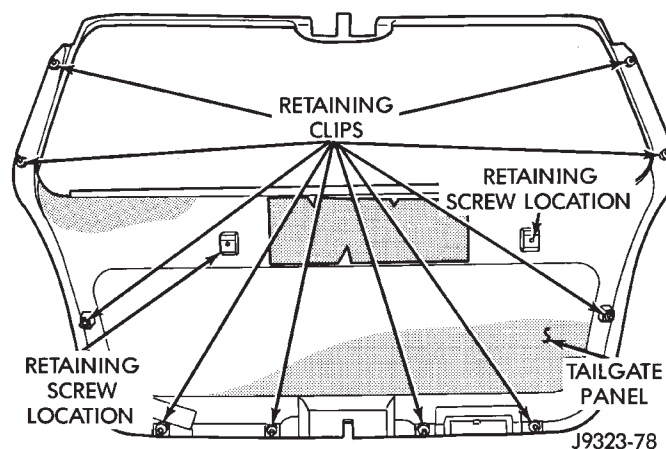


Fig. 22 Liftgate Retainer Location

LIFTGATE

REMOVAL

WARNING: DO NOT DISCONNECT THE SUPPORT ROD CYLINDERS WITH THE LIFTGATE CLOSED. THE SUPPORT ROD PISTONS ARE OPERATED BY HIGH PRESSURE GAS. THIS PRESSURE COULD CAUSE DAMAGE AND/OR PERSONAL INJURY IF THEY ARE REMOVED WHILE THE PISTONS ARE COMPRESSED.

- (1) Open liftgate. Support liftgate for ease of repair.
- (2) Remove liftgate trim panel (Fig. 21). If necessary, refer to removal procedure.
- (3) Remove retainer clips that secure support rod cylinders to ball studs (Fig. 23).
- (4) Remove support rod cylinders from ball studs (Fig. 23).
- (5) Remove upper support rod retaining screws (Fig. 23). Remove support rods.
- (6) Disconnect wire harnesses and washer hose from liftgate.
- (7) Remove hinge screws at liftgate (Fig. 24).
- (8) Remove liftgate from vehicle.

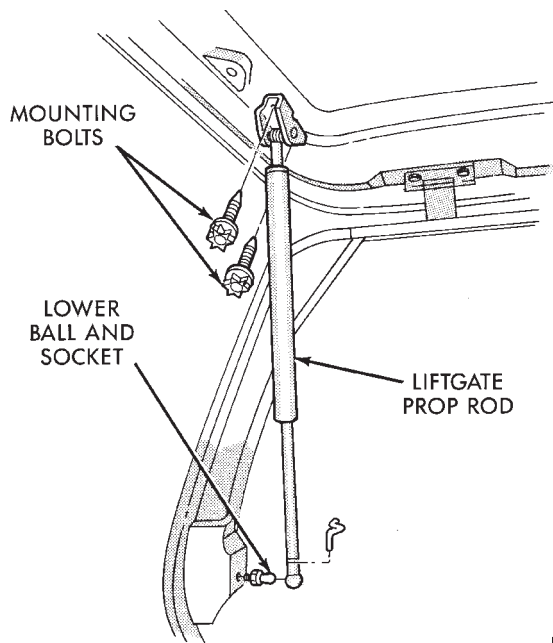
For installation, reverse removal procedure. Torque hinge screws to 9 N•m (7 ft-lbs) torque.

HINGE

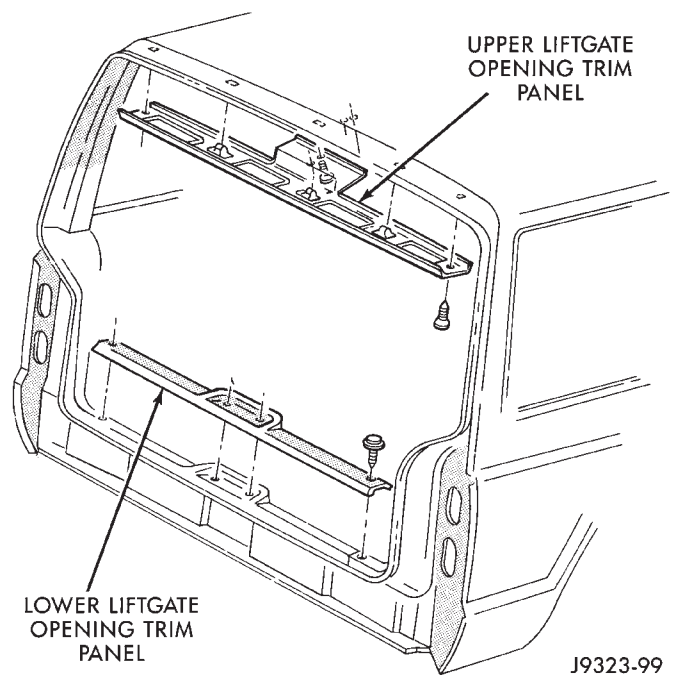
REMOVAL

It is not necessary to remove liftgate to replace one or both hinges. The hinges can be replaced one at a time.

- (1) Remove liftgate (headliner) upper trim molding (Fig. 25). Disconnect wiring harness to cargo lamp.
- (2) Remove hinge screws at roof panel (Fig. 24).



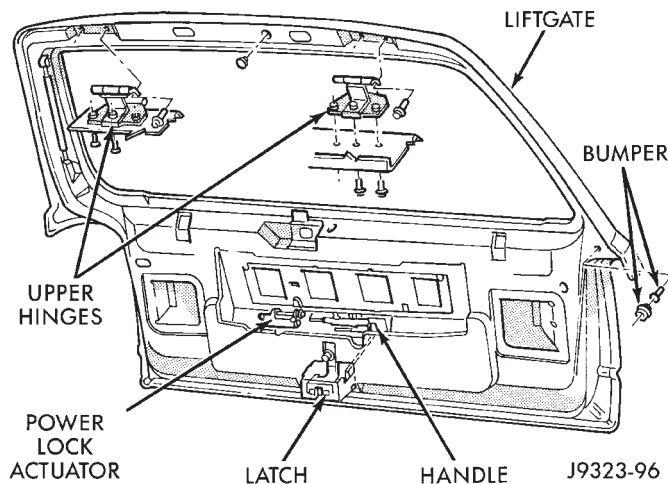
J9323-95

Fig. 23 Support Rod

J9323-99

Fig. 25 Liftgate Upper Trim Molding**LIFTGATE LATCH/LOCK COMPONENTS****REMOVAL**

- (1) Raise liftgate. Remove liftgate trim panel. If necessary refer to service procedure.
- (2) Remove latch screws (Fig. 26).



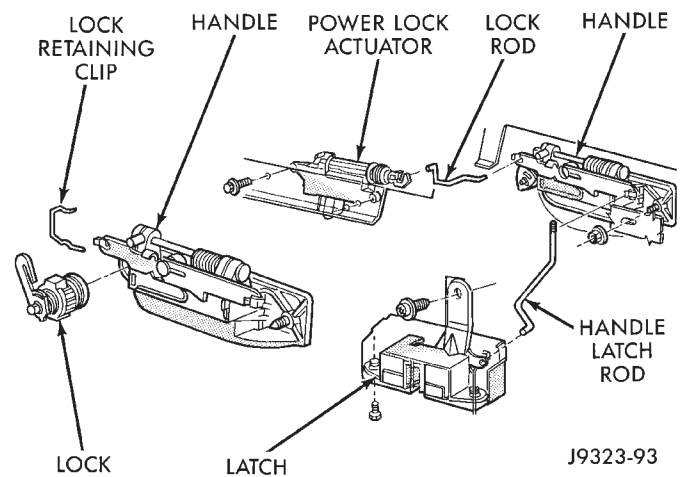
J9323-96

Fig. 24 Liftgate Components

- (3) Remove hinge screws at liftgate (Fig. 24). Remove hinge from liftgate (Fig. 24).

INSTALLATION

- (1) Position gaskets, shim and hinge on liftgate and roof panel (Fig. 24).
- (2) Install and tighten hinge screws at roof panel (Fig. 24) to 9 N•m (7 ft-lbs) torque.
- (3) Install hinge screws at liftgate (Fig. 24). Tighten screws to 9 N•m (7 ft-lbs) torque.
- (4) Install liftgate (headliner) upper trim molding (Fig. 25).



J9323-93

Fig. 26 Liftgate Latch/Lock Component

- (3) Disconnect rod from latch (Fig. 26).
- (4) Remove latch from liftgate (Fig. 26).
- (5) Remove lock cylinder retainer clip (Fig. 26).
- (6) Remove key lock cylinder (Fig. 26).
- (7) Remove 2 nuts retaining the liftgate handle. Remove the handle (Fig. 26).
- (8) Remove latch striker nuts from below scuff plate. Access nuts from under bumper fascia/beam. (Fig. 27)
- (9) Remove striker and shim (Fig. 27).

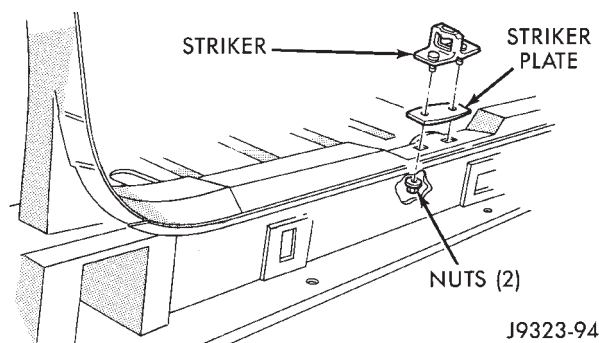


Fig. 27 Liftgate Latch Striker

For installation of components, reverse removal procedure.

LIFTGATE ADJUSTMENT

The position of liftgate can be adjusted upward or downward, and inward or outward by use of hinge shims. Liftgate stop bumpers must also be adjusted if liftgate hinges are adjusted. The inward/outward position of each stop bumper is adjusted by the of shims.

LIFTGATE OPENING WEATHERSTRIP SEAL

REMOVAL

- (1) Pull seal away from flange around edge of liftgate opening. Remove it from vehicle.
- (2) Clean seal flange as necessary.

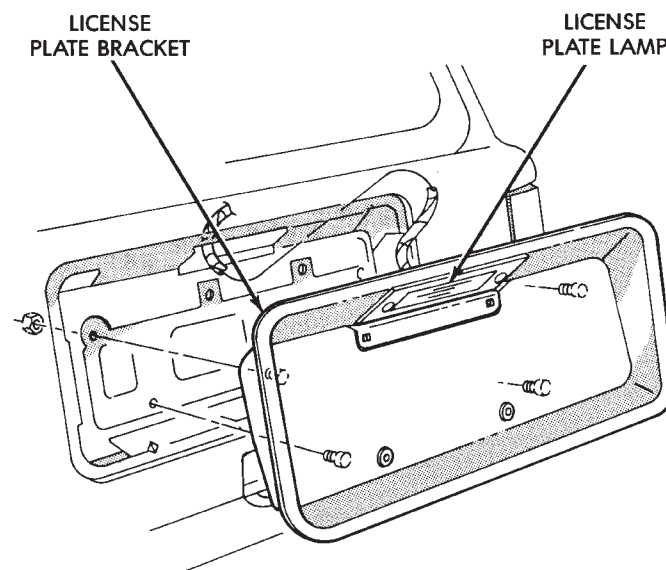
INSTALLATION

- (1) Position weatherstrip seal in opening with left end of seal at opening centerline. Install seal in a clockwise direction.
- (2) Seat installed part of seal. Move from left bottom end of seal to top left half of the seal.
- (3) Center and butt seal ends together at centerline.

LICENSE PLATE LAMP HOUSING

REMOVAL

- (1) Remove lamp housing retaining screws from liftgate (Fig. 28).



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Fig. 28 License Plate Lamp Housing

- (2) Disconnect bulb socket from lamp housing (Fig. 28).
- (3) Remove housing from liftgate (Fig. 28).

INSTALLATION

- (1) Position lamp housing at liftgate (Fig. 28).
- (2) Connect bulb socket to lamp housing (Fig. 28).
- (3) Install lamp housing retaining screws in liftgate (Fig. 28). Tighten screws securely.

FIXED WINDOW GLASS

INDEX

	page		page
Fixed Glass Water Leak Detection and Repair . . .	26	Windshield Replacement	25
Safety Precautions and Warnings	25		

SAFETY PRECAUTIONS AND WARNINGS

WARNING: DO NOT USE URETHANE ADHESIVE OR PRIMER IN CLOSED WORK AREA, PERSONAL INJURY CAN RESULT. PROTECT SKIN FROM COMING IN CONTACT WITH URETHANE, PERSONAL INJURY CAN RESULT. WEAR EYE AND HAND PROTECTION WHEN WORKING WITH GLASS, PERSONAL INJURY CAN RESULT.

CAUTION: Protect all painted or trimmed surfaces from coming in contact with urethane or primers, damage will result. Do not damage painted surfaces when removing moldings or cutting urethane around windshield.

WARNING: DO NOT OPERATE VEHICLE FOR AT LEAST 24 HOURS AFTER WINDSHIELD INSTALLATION. WINDSHIELD MAY NOT PERFORM PROPERLY IN THE EVENT OF A COLLISION IF URETHANE ADHESIVE IS NOT SUFFICIENTLY CURED. REFER TO MANUFACTURER OF URETHANE BEING USED FOR CURING TIME SPECIFICATIONS. WHEN INSTALLING GLASS, DO NOT USE URETHANE ADHESIVE AFTER DATE ON PRODUCT HAS EXPIRED. SAFETY AND QUALITY OF REPAIR WOULD BE QUESTIONABLE.

It is difficult to salvage a windshield during the removal operation. The windshield is part of the structural support for the roof. The urethane bonding used to secure windshield to fence is difficult to cut or clean from any surface. If moldings are set in urethane, it would also be unlikely they could be salvaged. Before removing windshield, check availability of windshield and moldings from the parts supplier.

WINDSHIELD REPLACEMENT

The procedure for windshield replacement can also be used to service rear quarter glass and liftgate glass (Figs. 1 and 2).

WINDSHIELD REMOVAL

- (1) Remove inside rear view mirror.
- (2) Remove cowl cover.

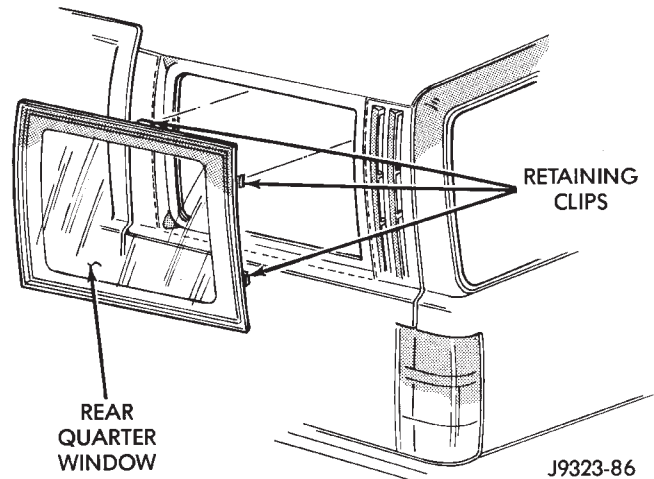


Fig. 1 Rear Quarter Glass

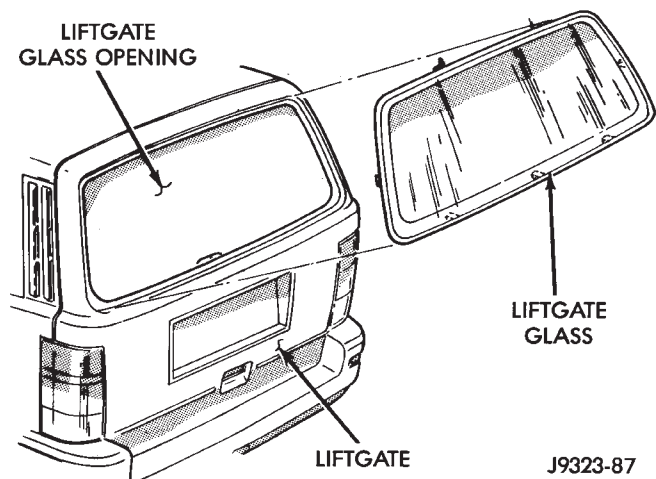


Fig. 2 Liftgate Glass

(3) Remove windshield moldings (Fig. 3). Pull outward on molding at the bottom of A-pillars using pliers.

(4) Cut urethane bonding from around windshield using a suitable sharp cold knife. A pneumatic cutting device can be used if available (Fig. 4).

(5) Separate windshield from vehicle.

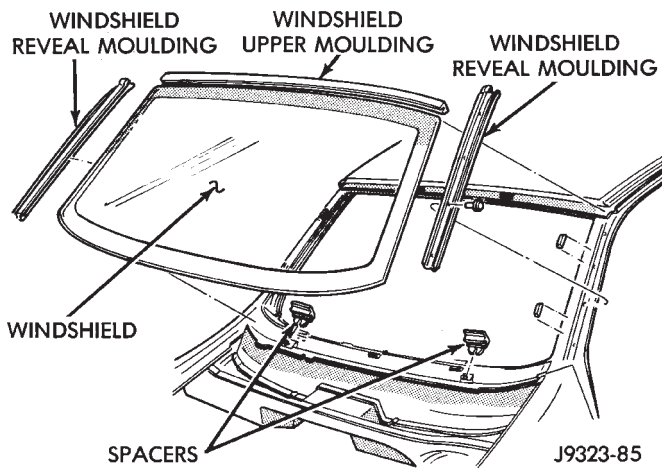


Fig. 3 Windshield Moldings

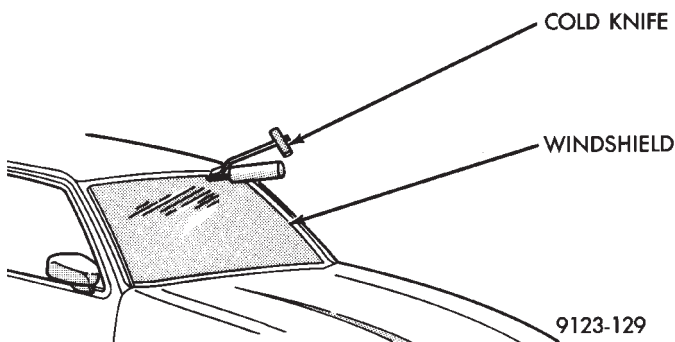


Fig. 4 Cut Urethane Around Windshield—Typical WINDSHIELD INSTALLATION

CAUTION: Open a window before installing windshield. This will avoid pressurizing the passenger compartment. If a door or trunk lid is slammed before urethane is cured, water leaks can result.

Allow the urethane at least 4 hours to cure before returning the vehicle to use.

The windshield fence should be cleaned of old urethane bonding material. Support spacers should be cleaned and properly installed on weld studs or repair screws at bottom of windshield opening.

(1) Place replacement windshield into windshield opening. Position glass in the center of the opening against the support spacers. Mark the glass at the support spacers with a grease pencil or masking tape and ink pen to use as a reference for installation. Remove replacement windshield from windshield opening (Fig. 5).

(2) Position the windshield inside up on a suitable work surface with two padded, wood 10 cm by 10 cm by 50 cm (4 in. by 4 in. by 20 in.) blocks, placed parallel 75 cm (2.5 ft.) apart (Fig. 6).

(3) Clean inside of windshield with Mopar® Glass Cleaner and lint-free cloth.

(4) Apply clear glass primer 25 mm (1 in.) wide around edge of windshield. Wipe with clean/dry lint-free cloth.

(5) Apply black-out primer 15 mm (.75 in.) wide on top and sides of windshield and 25 mm (1 in.) on bottom of windshield. Allow at least three minutes drying time.

(6) Position windshield spacers on lower fence above support spacers at the edge of the windshield opening (Fig. 7).

(7) Apply a 10 mm (0.4 in.) bead of urethane around perimeter of windshield along the inside of the moldings.

(8) With aid of a helper, position windshield over windshield opening. Align reference marks at bottom of windshield to support spacers.

(9) Slowly lower windshield glass to windshield opening fence. Guide top molding into proper position if necessary. Push windshield inward to fence spacers at bottom and until top molding is flush to roof line (Fig. 8).

(10) Clean excess urethane from exterior with Mopar®, Super Clean or equivalent.

(11) Install windshield molding. Apply 150 mm (6 in.) lengths of 50 mm (2 in.) masking tape spaced 250 mm (10 in.) apart to hold molding in place until urethane cures.

(12) Install cowl cover and wipers.

(13) Install inside rear view mirror.

(14) After urethane has cured, remove tape strips. Water test windshield to verify repair.

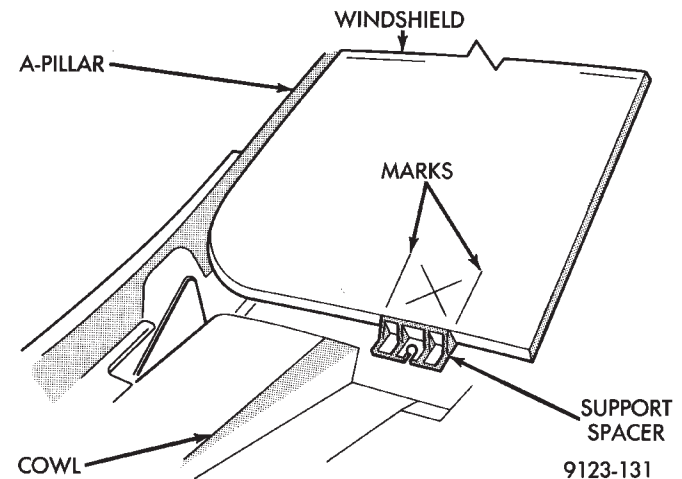


Fig. 5 Center Windshield and Mark at Support Spacers

FIXED GLASS WATER LEAK DETECTION AND REPAIR

SERVICE INFORMATION

The sources of water leaks around edge of the windshield or a fixed glass can be sealed without removing glass. If glass is firmly bonded and only has a small leak, seal the area with a liquid sealant.

LEAK TEST

Water test glass with a spray only. **Do not use hard streams of water.** Work from the bottom to the top of glass.

SEALING LEAK AREAS

- (1) Thoroughly clean and remove all foreign material from leak area. Dry area with compressed air.
- (2) Seal leak area with butyl sealant. Allow sealant to cure for at least 1/2 hour. Next, water test glass to ensure that leak area is sealed.

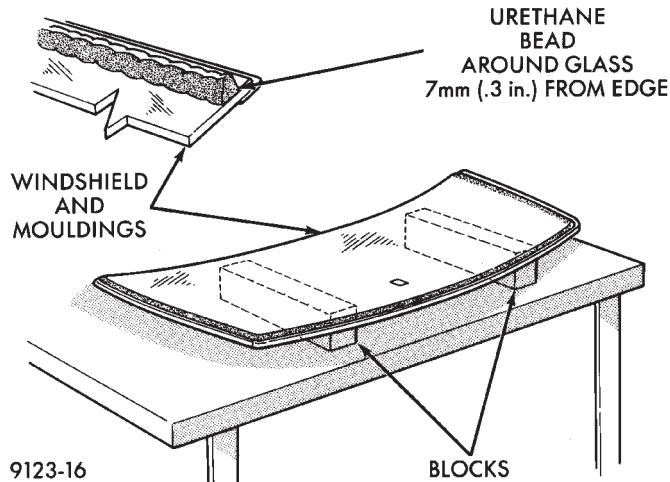


Fig. 6 Work Surface Set up and Molding Installation

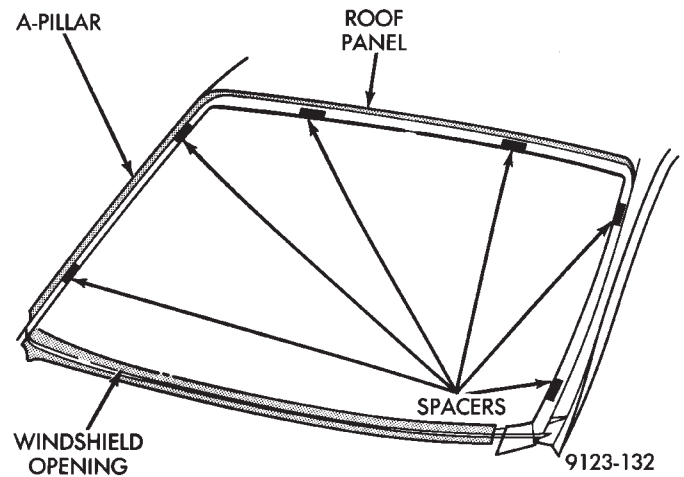


Fig. 7 Position Urethane Compression Spacers

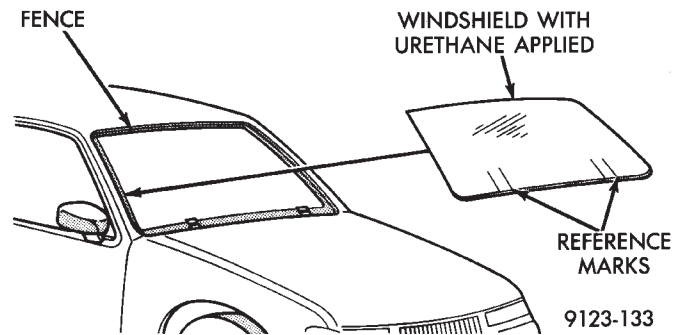


Fig. 8 Lower Windshield Into Position

UNDERBODY COMPONENTS

INDEX

	page		page
Service Information	28	Transfer Case Skid Plate	28
Trailer Hitch	28		

SERVICE INFORMATION

In some instances, the components in the following procedures are concealed by other components. Refer to applicable component removal procedure for service access.

TRANSFER CASE SKID PLATE

REMOVAL

- (1) Support skid plate.
- (2) Remove bolts that attach skid plate to transmission support crossmember and frame sill (Fig. 1).

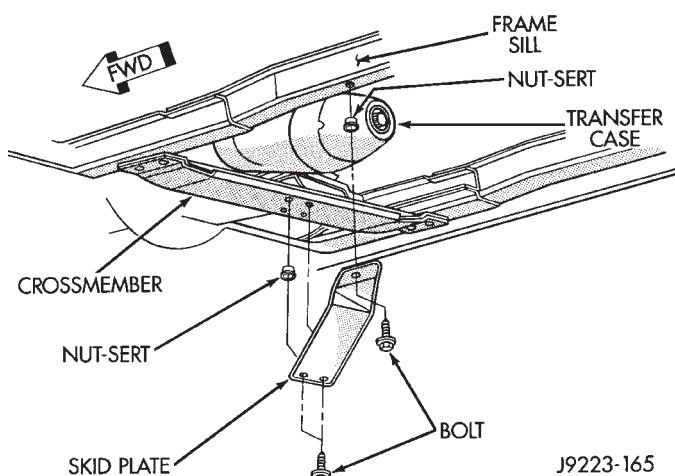


Fig. 1 Transfer Case Skid Plate

- (3) Remove support and skid plate from vehicle (Fig. 1).

INSTALLATION

- (1) Position and support skid plate at the frame sill and transmission support crossmember (Fig. 1).
- (2) Attach skid plate to frame sill and crossmember with the bolts (Fig. 1). Tighten bolts to 22 N•m (16 ft. lbs) torque.

TRAILER HITCH

REMOVAL

- (1) If necessary, remove trailer tow wire harness connector from hitch.
- (2) Support hitch.
- (3) Remove nuts that attach the towing tube to frame sills (Fig. 2).

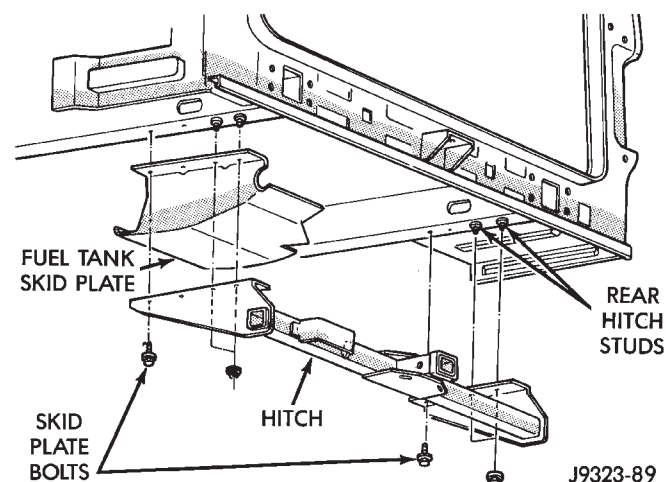


Fig. 2 Equalizer Type Hitch

Reinforcement brackets are retained on frame sills with 4 studs.

- (4) Remove bolts from plate bracket and vehicle rear crossmember (Fig. 2). Lower support and hitch.

INSTALLATION

- (1) Place hitch on a lifting device. Raise, position hitch at proper location (Fig. 2) and support it.
- (2) Loosely install nuts that attach towing tube to vehicle frame sills (Fig. 2).
- (3) Position plate bracket and install attaching bolts through vehicle rear crossmember (Fig. 2).
- (4) Tighten all attaching bolts/nuts.
- (5) Remove support and, if removed, attach trailer wire harness connector to hitch (Fig. 2).

INTERIOR COMPONENTS

INDEX

	page		page
Assist Handle	36	Interior Trim Panels and Scuff Plates	32
B and C-Pillar Trim Covers	35	Lower B-Pillar Trim Panel	32
Bucket Seat Cushion and Cover	30	Mini-Floor Console	39
Bucket Seat Platform	31	Outer Scuff Plates	35
Bucket Seatback Cover and Frame	31	Quarter Trim Panels	32
Carpets and Floor Mats	41	Rear Seat Cushion	31
D-Pillar Trim Cover	35	Rear Seat Cushion Cover	31
Front Bucket Seats	30	Rear Seatback	31
Front Shoulder Belt/Buckle	36	Rear Seatback Cover	32
Fuel Door Cable	41	Rear Shoulder/Lap Belt/Buckle	36
Full Floor Console	39	Sunvisors	39
Headliner	36	Windshield Side Molding	32
Instrument Panel	29		

INSTRUMENT PANEL

REMOVAL

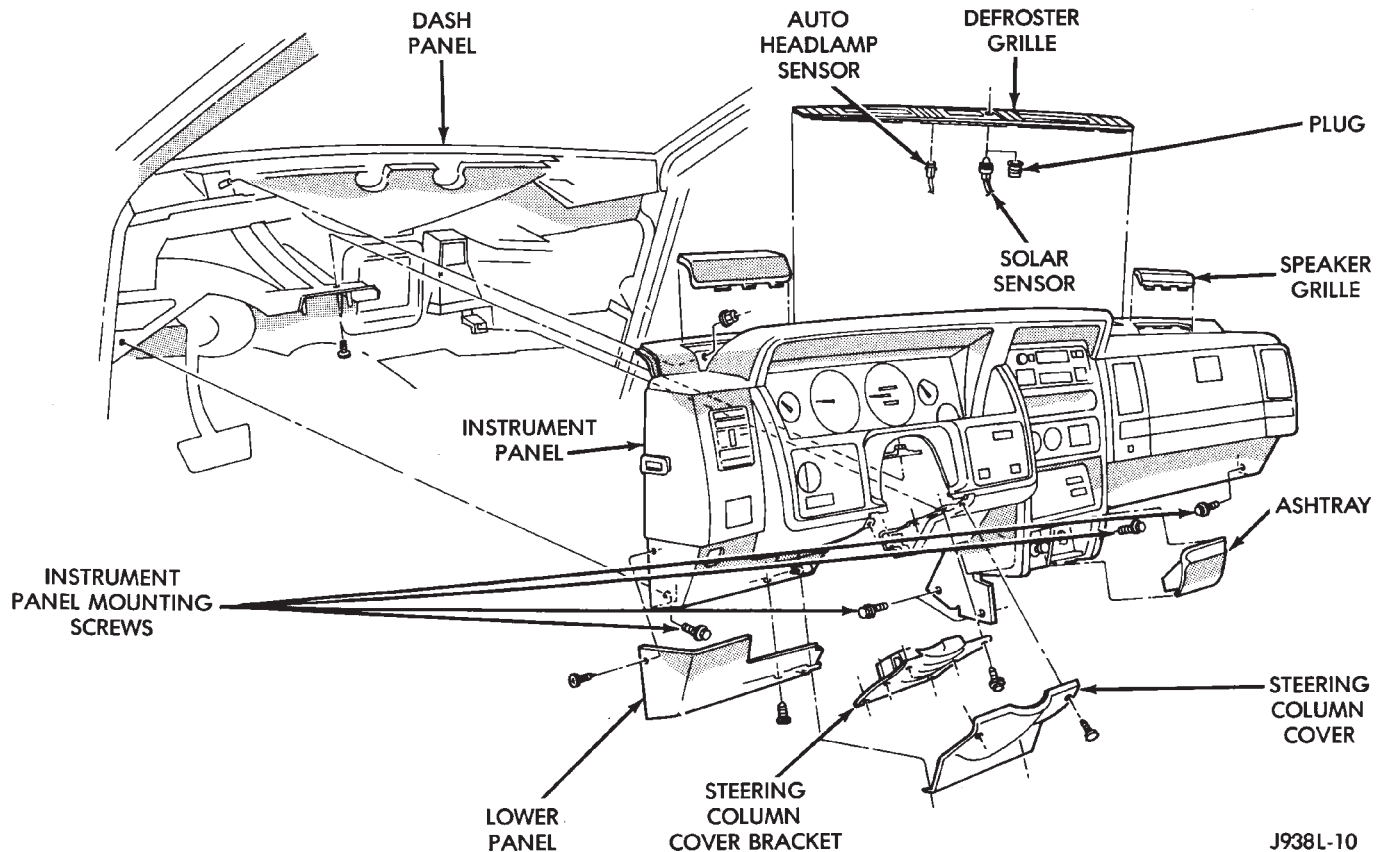
- (1) Remove defroster duct bezel from instrument panel.
- (2) Remove speaker grilles.
- (3) Remove 4 upper instrument panel retaining nuts.

(4) Remove 3 screws retaining lower left side panel at instrument panel. Remove mounting bolt for instrument panel at left side cowl through access hole provided.

(5) Remove ashtray. Remove instrument panel mounting screw located behind ashtray.

(6) Remove instrument panel mounting bolt located on right side cowl.

(7) Fold down carpet at left side of the console. Remove 2 mounting screws.



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Fig. 1 Instrument Panel

(8) Remove 3 screws at lower column cover and remove cover (Fig. 2).

(9) Remove 6 screws at lower knee bolster and remove bolster (Fig. 2).

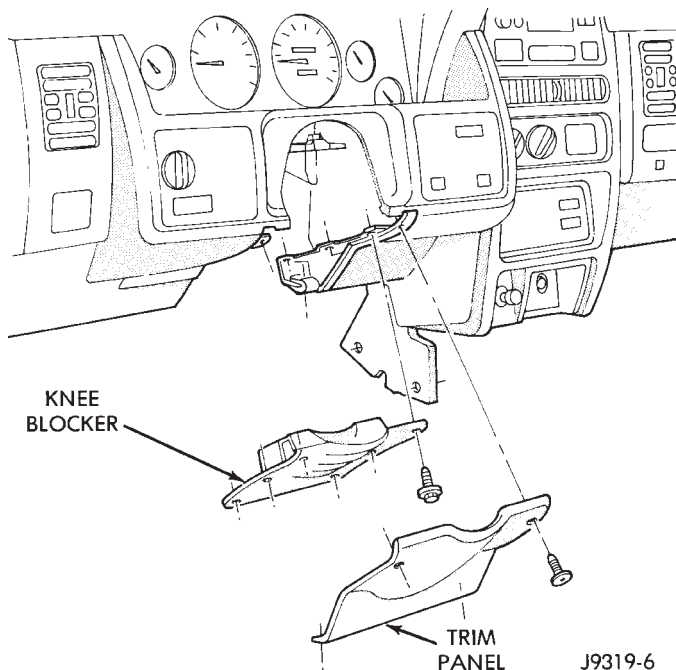


Fig. 2 Knee Bolster

(10) Remove tilt lever and both column covers. Disconnect column wiring.

(11) Remove 2 nuts at column mount. Lower steering column.

(12) Remove instrument panel mounting bolt above center of column.

(13) Disconnect bulkhead connector at left side of dash panel.

(14) Disconnect cluster wiring at lower left side of instrument panel.

(15) Remove right side kick panel access door. Disconnect wiring at kick panel.

(16) Pull back and lower instrument panel. Disconnect A/C vacuum lines and antenna.

(17) Remove Instrument Panel.

For component disassembly refer to related group.

To install reverse removal procedure.

FRONT BUCKET SEATS

REMOVAL

Bucket seat platforms are attached to floor panel with 4 bolts (Fig. 3). The trim covers are attached to platform with 3 screws.

- (1) Remove 4 bolts retaining seat.
- (2) For power seats, disconnect wire harness connector (Fig. 4)
- (3) Remove seat from floor panel.

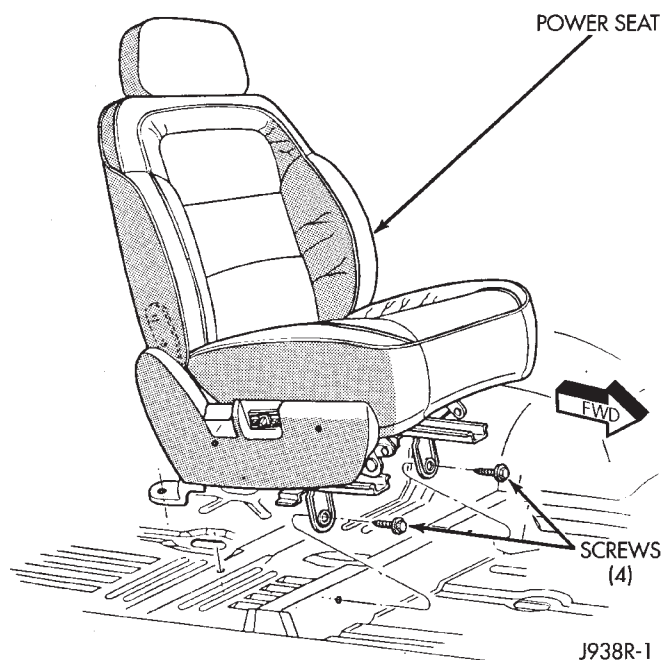


Fig. 3 Front Bucket Seat

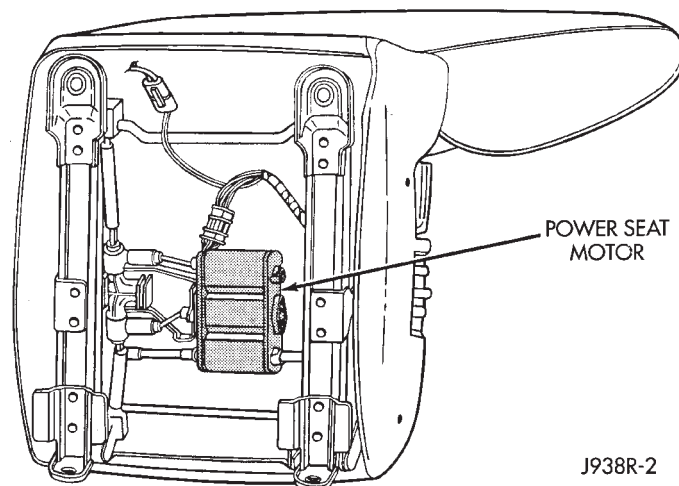


Fig. 4 Power Bucket Seat Wire Harness Connector

INSTALLATION

- (1) Position seat on floor panel.
- (2) Install and tighten seat retaining bolts to 25 N•m (18 ft-lbs) torque (Fig. 3).
- (3) For power seats, connect wire harness connector (Fig. 4).

BUCKET SEAT CUSHION AND COVER

REMOVAL

(1) Remove the seat from vehicle (Fig. 3). If necessary, refer to removal procedure.

(2) Remove 3 screws retaining seat trim cover (Fig. 3).

(3) Remove wire support rod and rear carpet seat track cover, and flap retainer.

(4) For power seats, remove control housing from seat cushion.

(5) Remove retaining screws and seat cushion from seat frame.

(6) Remove seat cushion cover retaining screws and wire rods from cushion cover. Remove cover from cushion frame.

INSTALLATION

(1) Install seat cushion cover on cushion frame. Install wire rods and retaining screws. Tighten screws to 2 N•m (13 in-lbs) torque.

(2) Install cushion and retaining screws on seat frame.

(3) For power seats, install control housing on seat cushion. Tighten screws to 2 N•m (13 in-lbs) torque.

(4) Install rear carpet seat track cover and support rod and flap retainer.

(5) Install seat trim cover and screws onto seat platform.

(6) Install seat in vehicle (Fig. 3). If necessary, refer to removal procedure.

BUCKET SEATBACK COVER AND FRAME

REMOVAL

(1) Remove seat from vehicle. If necessary, refer to removal procedure.

(2) Remove seat cushion from frame. If necessary, refer to removal procedure.

(3) If equipped, remove headrest. Twist knob under headrest and pull up and out of cylinders in seatback.

(4) Remove headrest latch release lever bezel from seatback.

(5) Squeeze plastic retainers together. Detach lower flap from front of cover.

(6) Remove cover retainer clips and remove cover from seatback.

(7) For power seats, remove retaining screws and remove the seat control from seat track/platform.

(8) Remove retaining screws and nuts. Remove seat frame from seat track/platform.

INSTALLATION

(1) Position seat frame on seat track/platform. Install retaining screws and nuts.

(2) For power seats, position seat control on seat track/platform. Install retaining screws. Tighten screws securely.

(3) Position cover on seatback. Install cover retainer clips.

(4) Attach cover bottom elastic band or attach Velcro flap to front of cover.

(5) Install seatback insert.

(6) Install headrest latch release lever bezel.

(7) Install headrest by pushing it down into seatback cylinders.

(8) Install cushion on frame. If necessary, refer to installation procedure.

(9) Install seat in the vehicle. If necessary, refer to the installation procedure.

(10) For power seats, test seat operation.

BUCKET SEAT PLATFORM

REPLACEMENT

Bucket seat platforms are not repairable. If the seat platform is damaged, replace platform as a unit. Refer to Group 8—Electrical for additional service information.

REAR SEAT CUSHION

REMOVAL

(1) Disengage seat cushion at rear by pulling upward on release strap.

(2) Tilt seat cushion forward.

(3) Disengage lower seat cushion hinge by pulling upward and out. Remove cushion from vehicle.

INSTALLATION

(1) Position seat cushion in vehicle.

(2) Insert hinge into lower pivot.

(3) Push downward to engage hinge into pivot.

(4) Lock seat cushion down by pressing firmly on center of cushion until latch engages.

REAR SEAT CUSHION COVER

REMOVAL

(1) Remove seat cushion from vehicle. If necessary, refer to removal procedure.

(2) Using a trim tool, disengage seat cover retainers around edge of seat bottom.

(3) Remove cover side, front and rear retaining clips from wire retainers with an appropriate removal tool.

(4) Remove seat cover from cushion.

INSTALLATION

(1) Place replacement cover on cushion.

(2) Compress cover and attach retaining clips to front and rear wire retainers.

(3) Install serrated retainers at ends of cover.

(4) Install seat cushion in vehicle. If necessary, refer to installation procedure.

REAR SEATBACK

REMOVAL

(1) Remove lower seat cushion. Refer to removal procedure.

(2) Remove 2 bolts holding seatback side support (Fig. 5).

(3) Tilt seatback forward, lift it upward and detach it from center pivot.

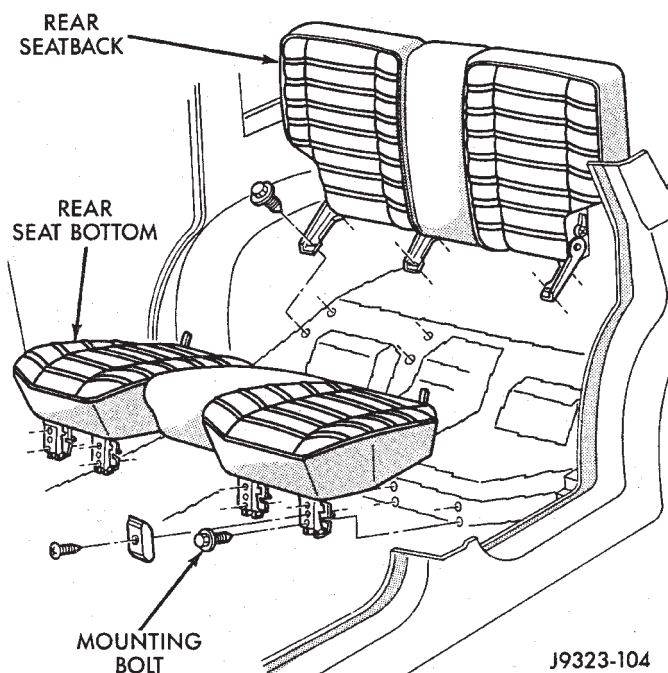


Fig. 5 Rear Seat Mounting

- (4) Remove it from vehicle.

INSTALLATION

- (1) Position seatback in vehicle.
- (2) Install seatback onto center pivot.
- (3) Position side support with bolt holes aligned. Install 2 side support bolts (Fig. 5).
- (4) Install lower seat cushion. Refer to installation procedure.

REAR SEATBACK COVER

REMOVAL

- (1) Remove seatback from vehicle. If necessary, refer to removal procedure.
- (2) Remove seatback latch release handle and bezel from seatback.
- (3) Disengage cover zipper and J-rail retainer. Remove cover from seatback pad.

INSTALLATION

- (1) Install replacement cover on seatback.
- (2) Attach cover J-rail retainer clip to frame/panel edge and engage cover zipper.
- (3) Install seat latch release bezel and handle on cover and pad.
- (4) Install seatback in the vehicle. If necessary, refer to installation procedure.

INTERIOR TRIM PANELS AND SCUFF PLATES

SERVICE INFORMATION

CAUTION: Do not attempt to remove trim panels/moldings without first removing overlapping adjacent panels.

To avoid damaging panels, verify that all screws and clips are removed before attempting to remove a trim panel/molding. Trim panels are somewhat flexible but can be damaged if handled improperly.

LOWER B-PILLAR TRIM PANEL

REMOVAL

- (1) Remove retaining screws along bottom edge of trim panel (Fig. 6).

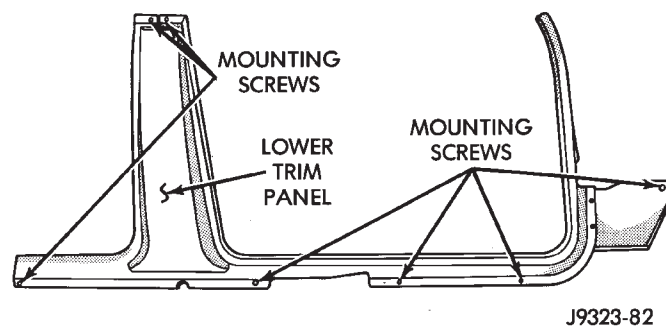


Fig. 6 B-Pillar Trim Panel

- (2) Detach and remove the A-pillar upper trim panel (Fig. 7).
- (3) Remove upper front seat belt mounting pivot (Fig. 8).
- (4) Detach and remove upper B-pillar trim panel.
- (5) Remove lower front seat belt mounting bolt (Fig. 8).
- (6) Remove 2 mounting screws located behind upper B-pillar trim.
- (7) Remove trim panel.

For installation, reverse removal procedure.

WINDSHIELD SIDE MOLDING

REMOVAL

- (1) Unsnap clips retaining upper A-pillar trim panel.
 - (2) Remove trim panel (Fig. 7).
- For installation, reverse removal procedure.

QUARTER TRIM PANELS

REMOVAL

- (1) Pull rear seat bottom forward and fold down rear seat.
- (2) Remove lower retaining screw at rear door opening (Figs. 9 and 10).
- (3) Remove tonneau cover (If applicable).

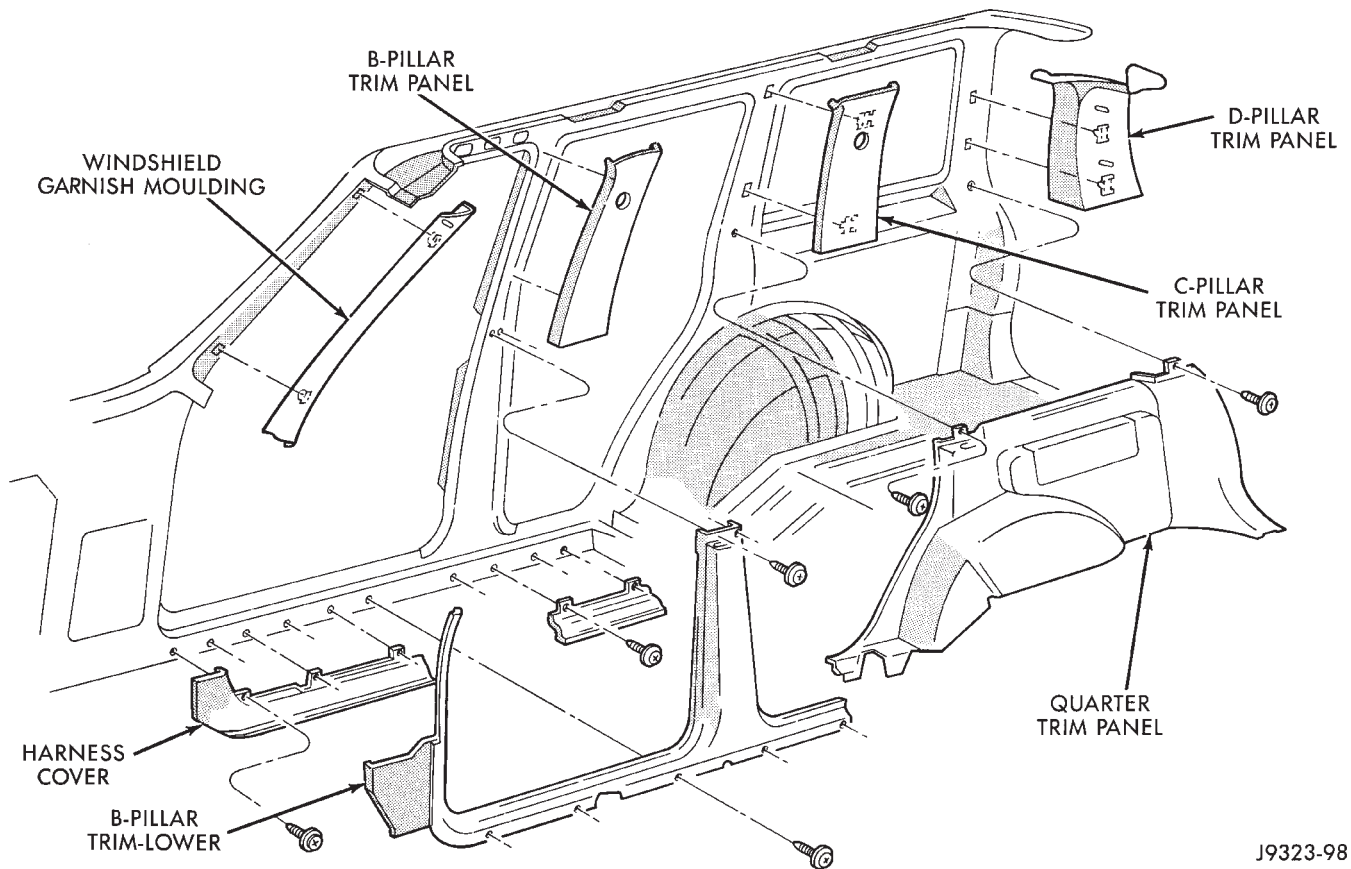


Fig. 7 Interior Trim Panels

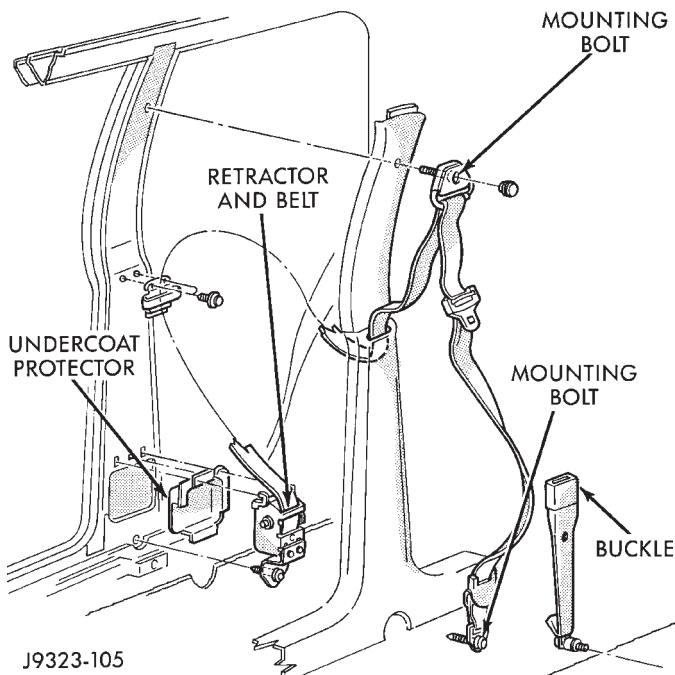


Fig. 8 Front Seat Belt

(4) Remove rear seat shoulder belt retaining bolt (Fig. 11).

(5) Detach and remove C-pillar trim panel (Fig. 7).

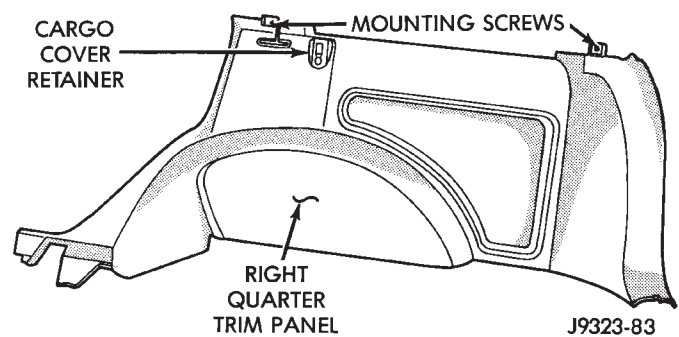


Fig. 9 Right Quarter Trim Panel

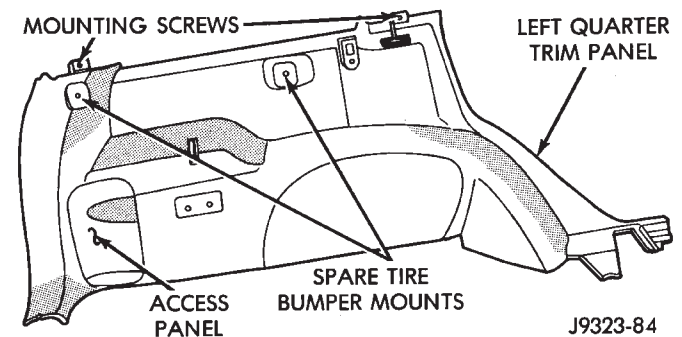


Fig. 10 Left Quarter Trim Panel

(6) Remove 5 screws retaining upper liftgate trim panel (Fig. 12).

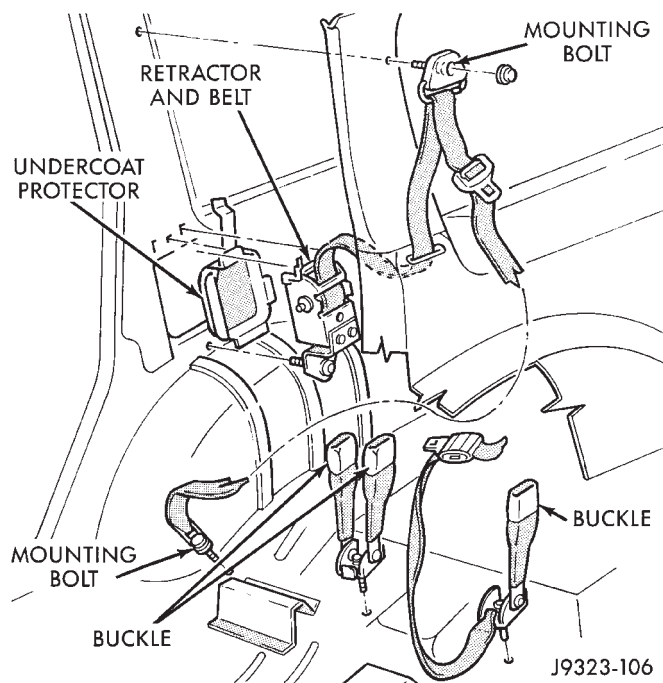


Fig. 11 Rear Seat Shoulder Belt

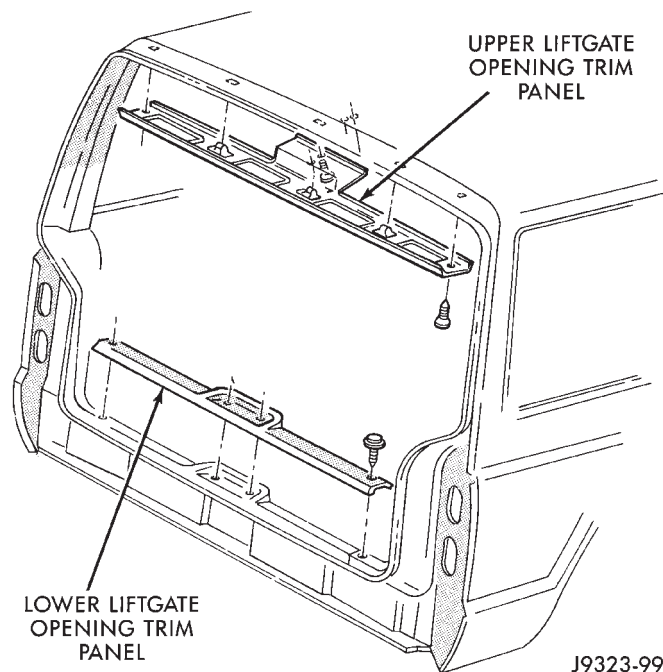


Fig. 12 Liftgate Opening Trim Panels

- (7) Disconnect wiring to cargo lamp.
- (8) Remove retaining clip at liftgate prop rod lower mount and detach rod (Fig. 13).
- (9) Remove liftgate lower trim panel from liftgate opening (Fig. 12).
- (10) Remove quarter trim panel mounting screws (Figs. 9 and 10).
- (11) If necessary, remove spare tire (Fig. 14) and tire stand-offs from left quarter trim panel (Fig. 15).
- (12) Remove rear quarter trim panel.

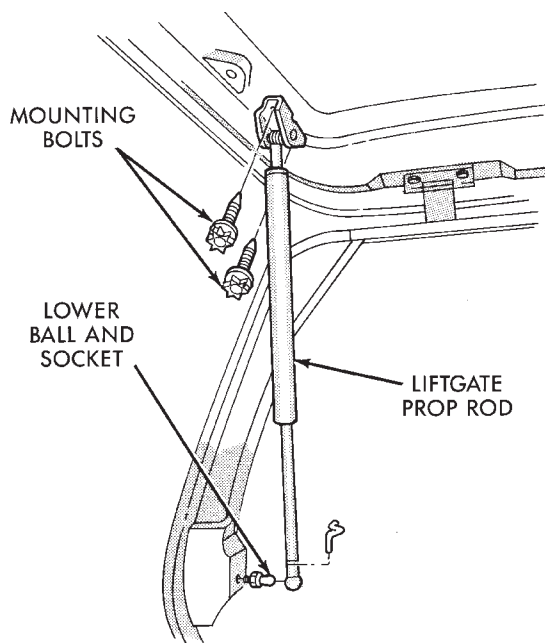


Fig. 13 Liftgate Prop Rod

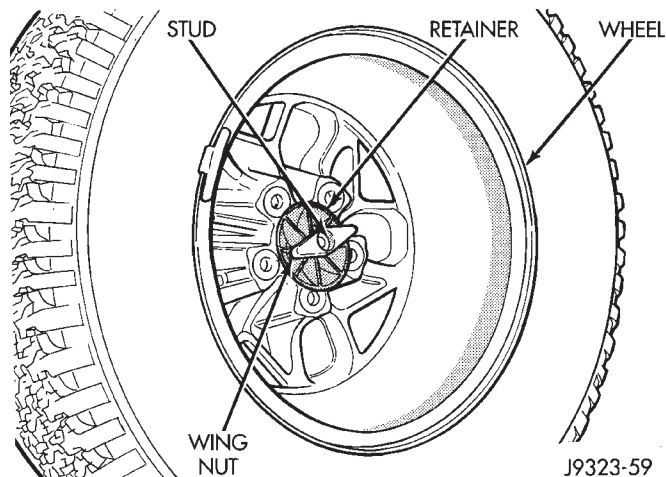


Fig. 14 Spare Tire Mounting

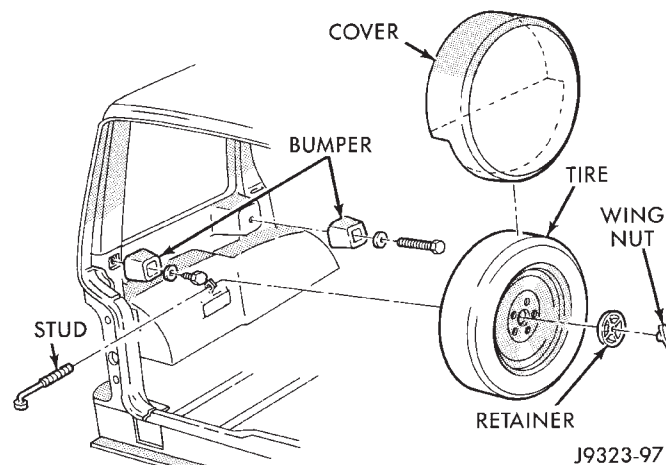
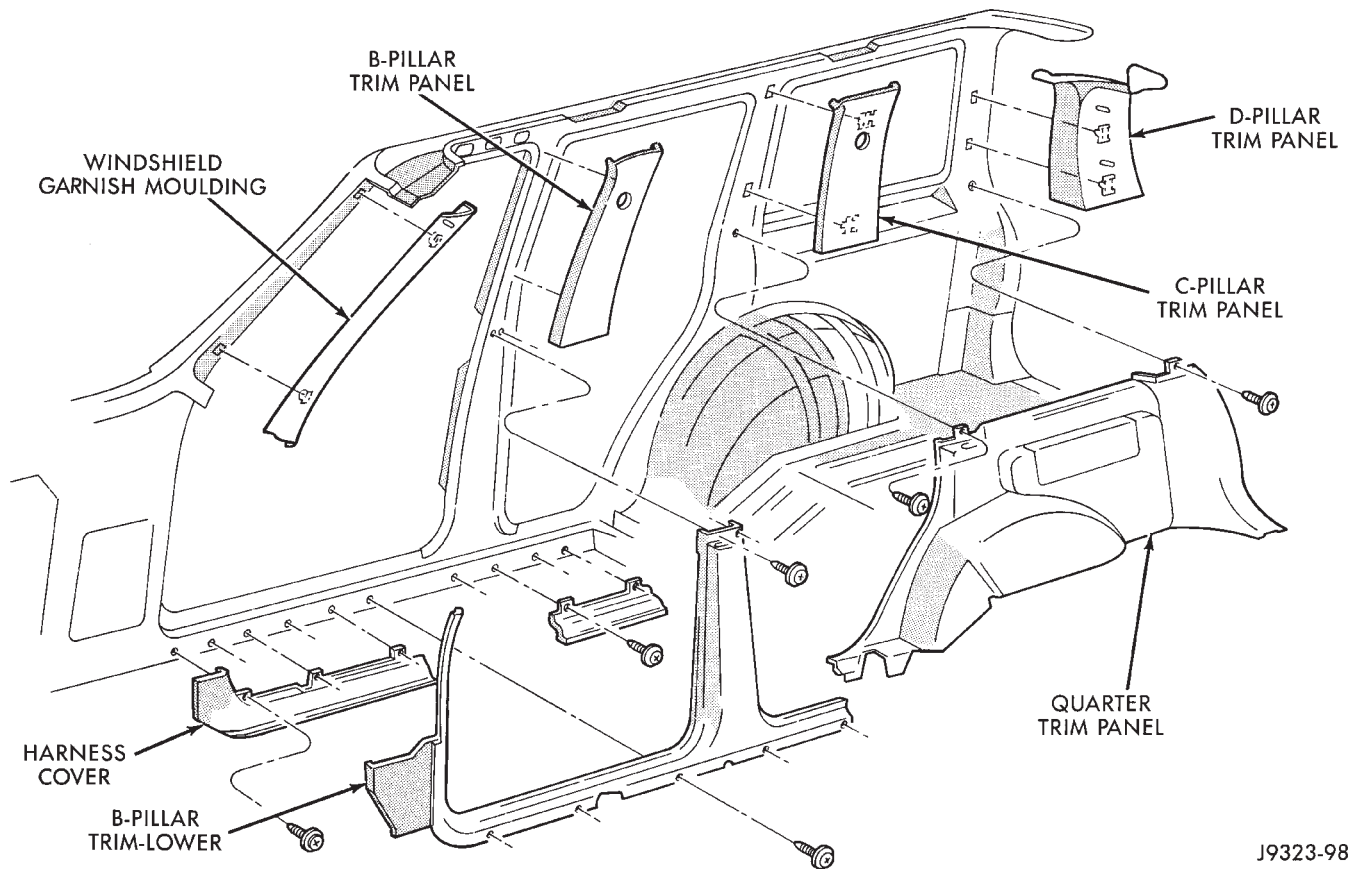


Fig. 15 Tire Stand-Offs—Left Quarter Trim Panel



J9323-98

Fig. 16 Interior Trim Panels

For installation, reverse removal procedure.

B AND C-PILLAR TRIM COVERS

REMOVAL

- (1) Remove shoulder belt retaining bolt (Figs. 8 and 11).
- (2) Detach and remove pillar trim panel from pillar (Fig. 16).

INSTALLATION

- (1) Position trim cover on pillar. Snap trim panel into place (Fig. 16).
- (2) Install shoulder belt retaining bolt.

D-PILLAR TRIM COVER

REMOVAL

- (1) Remove liftgate upper trim panel (Fig. 12).
- (2) Remove prop rod lower retaining clip and detach prop rod from mount (Fig. 13).
- (3) Detach and remove trim panel from D-pillar (Fig. 16).

INSTALLATION

- (1) Position D-pillar trim panel on D-pillar and snap in place (Fig. 16).
- (2) Snap prop rod onto mount and install retaining clip (Fig. 13).

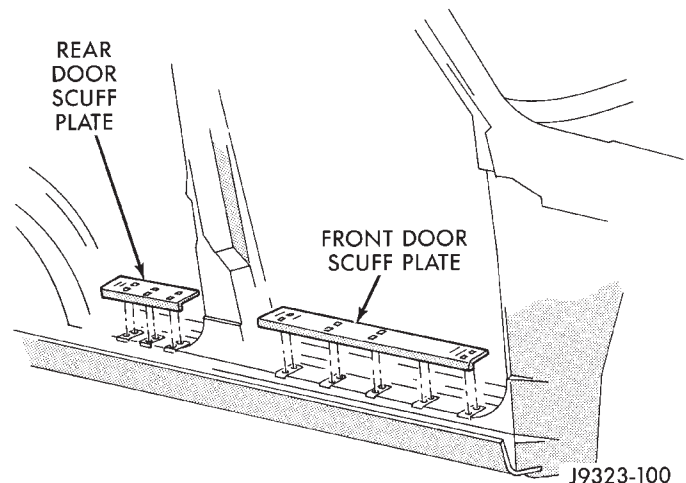
- (3) Install upper liftgate trim panel (Fig. 12).

OUTER SCUFF PLATES

REMOVAL

The door sill outer scuff plates are attached to the sills with molded-in snap retainers.

Using a flat blade screwdriver, detach scuff plate from sill (Fig. 17).



J9323-100

Fig. 17 Scuff Plates

For installation, reverse removal procedure.

ASSIST HANDLE

REMOVAL

- (1) Remove the 2 Torx retaining screws (Fig. 18).

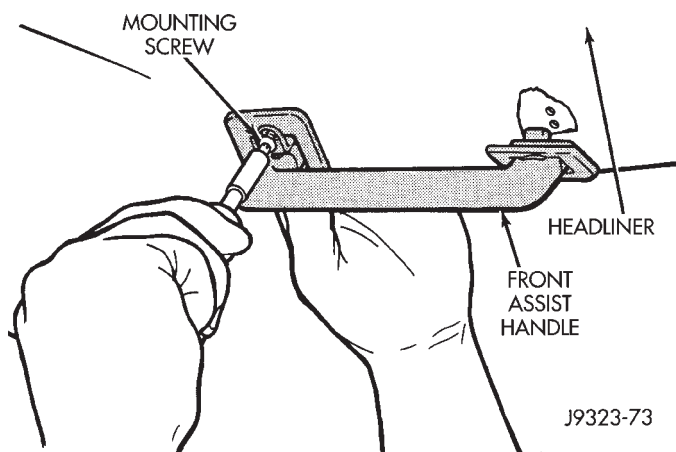


Fig. 18 Assist Handle

- (2) Remove assist handle from roof panel.

INSTALLATION

- (1) Position handle on the roof panel and install retaining screws (Fig. 18). Tighten retaining screws to 3 N•m (22 in-lbs) torque.

FRONT SHOULDER BELT/BUCKLE

REMOVAL

- (1) Slide front seats all the way forward for access to buckle anchor bolt.
- (2) Disconnect buckle wire harness connector.
- (3) Remove anchor bolt cover.

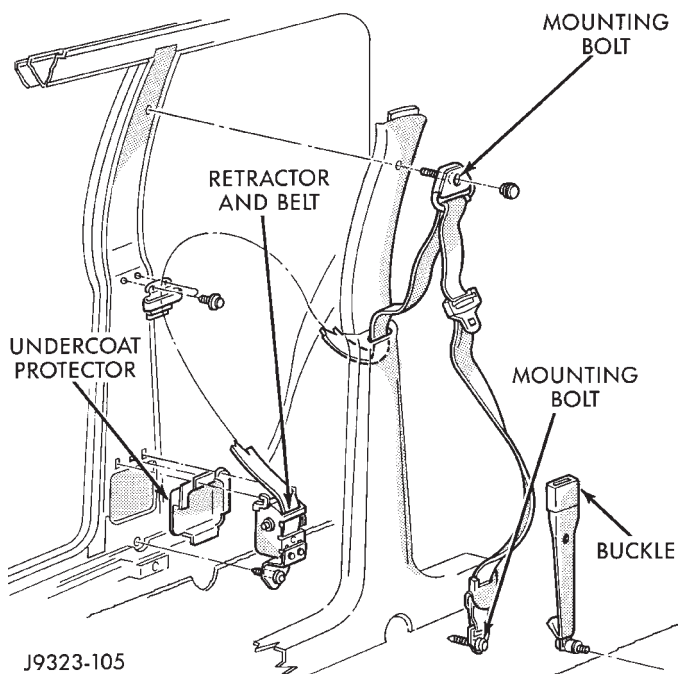


Fig. 19 Front Shoulder Belt/Buckle

- (4) Remove buckle anchor bolt with a Torx bit (Fig. 19).

- (5) Remove shoulder belt buckle from transmission tunnel.

- (6) Remove cap concealing shoulder belt upper anchor bolt (Fig. 19).

- (7) Use a Torx bit to remove upper anchor bolt (Fig. 20).

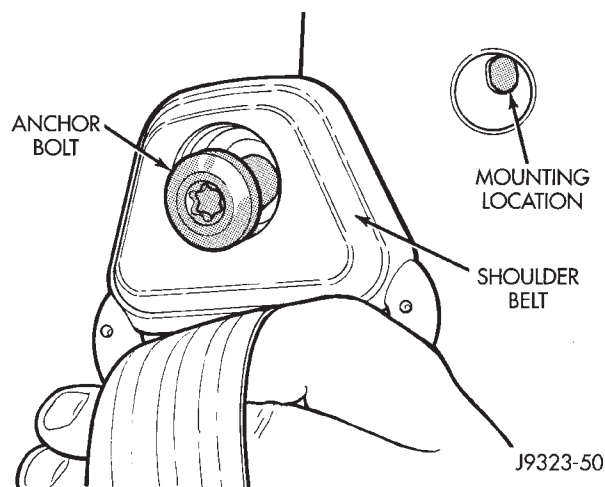


Fig. 20 Upper Seat Belt Mounting

- (8) Remove lower A to B trim panel, refer to service procedure. Remove shoulder belt lower retractor anchor bolt with a Torx bit (Fig. 19).

- (9) Remove shoulder belt and retractor (Fig. 19).

For installation, reverse removal procedure. Tighten anchor bolts to 37 N•m (27 ft-lbs)

REAR SHOULDER/LAP BELT/BUCKLE

REMOVAL

- (1) Pull rear seat release strap and tilt seat bottom forward. Remove seat bottom from lower latch.

- (2) Unlatch seat back and tilt forward.

- (3) Remove shoulder belt buckle and lap belt/buckle anchor plate bolts from the floor panel (Fig. 21).

- (4) Remove quarter trim panel.

- (5) Remove shoulder belt upper anchor bolt (Fig. 20).

- (6) Remove belt retractor anchor bolt from rear quarter rail (Fig. 21).

- (7) Remove retractor and shoulder belt from panel (Fig. 21).

For installation, reverse removal procedure. Tighten anchor bolts to 37 N•m (27 ft-lbs)

HEADLINER

REMOVAL

CAUTION: The headliner is a one-piece, molded component. It has limited flexibility and must not be bent. Damage possibly will result.

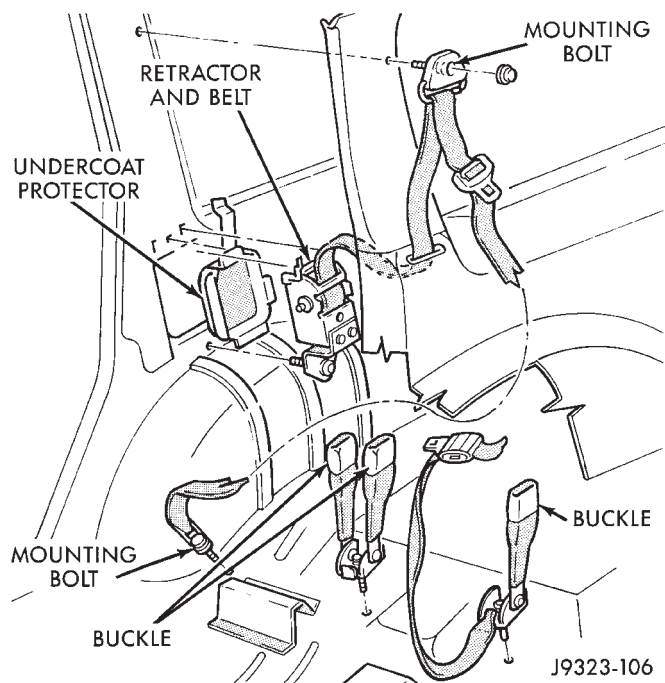


Fig. 21 Rear Seat Shoulder/Lap Belts & Buckles

- (1) Remove the A,B,C and D-pillar trim moldings from perimeter of headliner (Fig. 22).
- (2) Remove upper liftgate trim molding (Fig. 23).

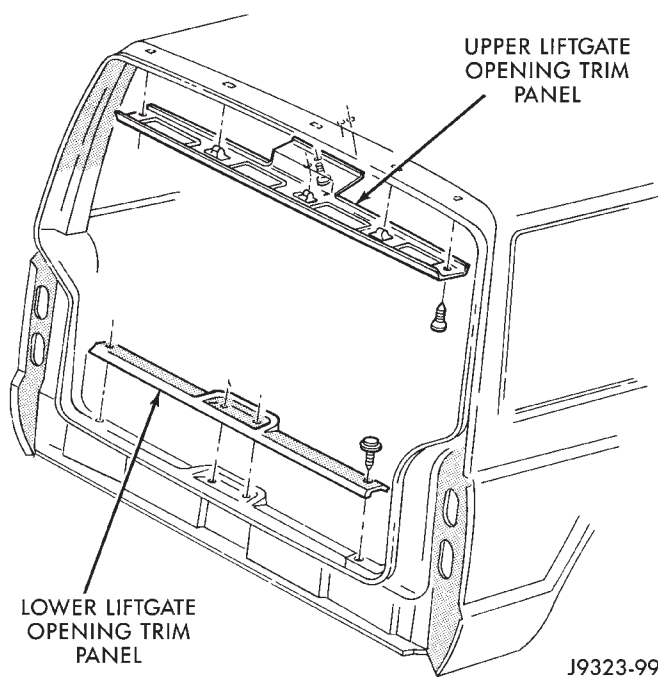


Fig. 23 Liftgate (Headliner) Trim Molding

- (3) Remove sunvisors from front of roof panel (Fig. 24). Disconnect vanity lamp wiring (if applicable)
- (4) Remove assist handles or plugs from side of roof rails (Fig. 25)

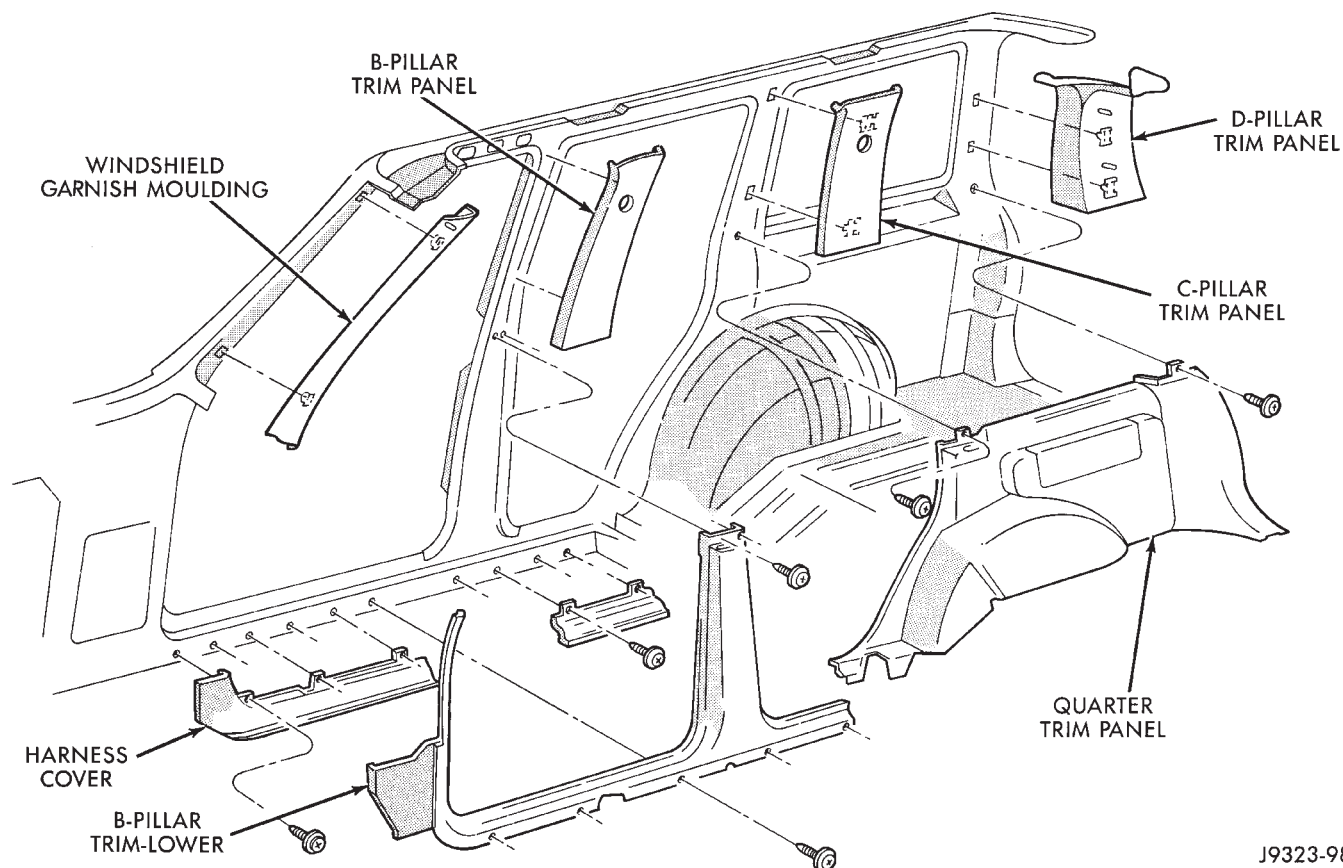


Fig. 22 Trim Moldings

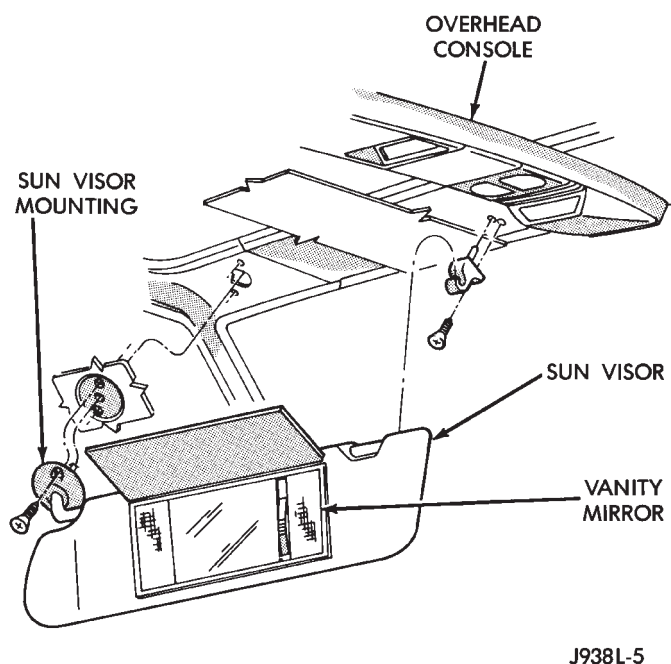


Fig. 24 Sun Visor

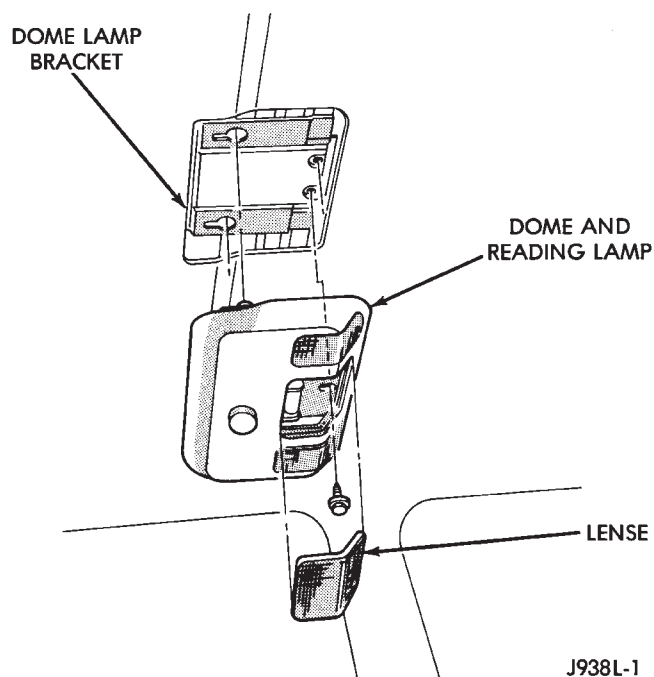


Fig. 26 Dome/Reading Lamp

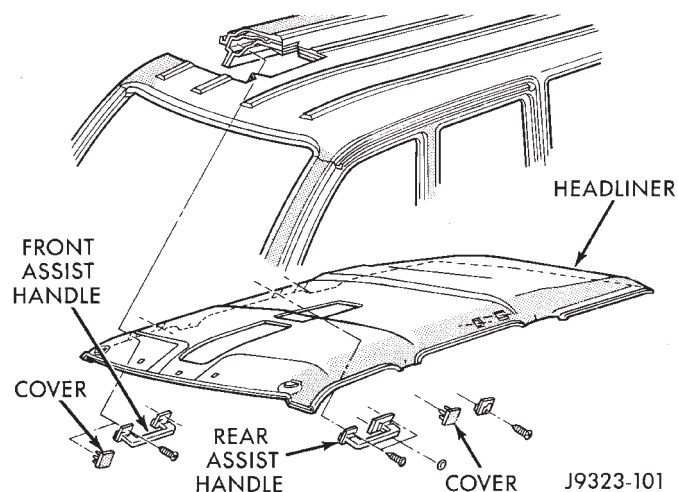


Fig. 25 Assist Handles

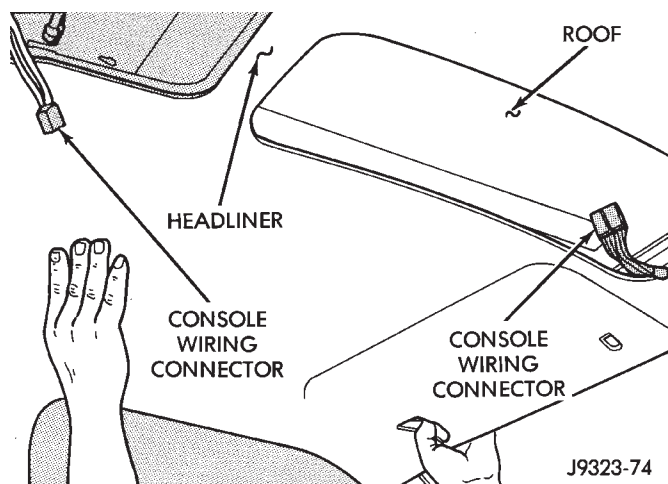


Fig. 27 Headliner Positioning/Front

(5) Remove dome/reading lamp or overhead console from center of roof panel (Fig. 26).

(6) With aid of an assistant, remove headliner through liftgate opening.

INSTALLATION

(1) With the aid of an assistant, position headliner in vehicle (Figs. 27, 28, 29)

(2) Install dome/reading lamp (Fig. 26).

(3) Install sunvisors (Fig. 24).

(4) Install assist handles or plugs (Fig. 25).

(5) Install A,B,C and D-pillar trim panels (Fig. 22).

(6) Install liftgate upper trim panel (Fig. 23).

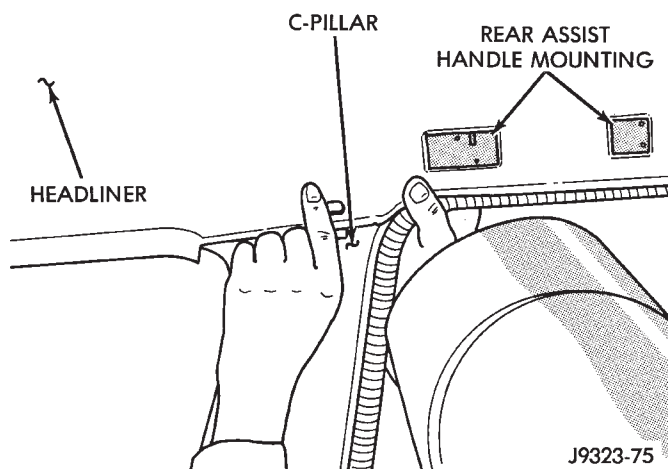


Fig. 28 Headliner Positioning/Side

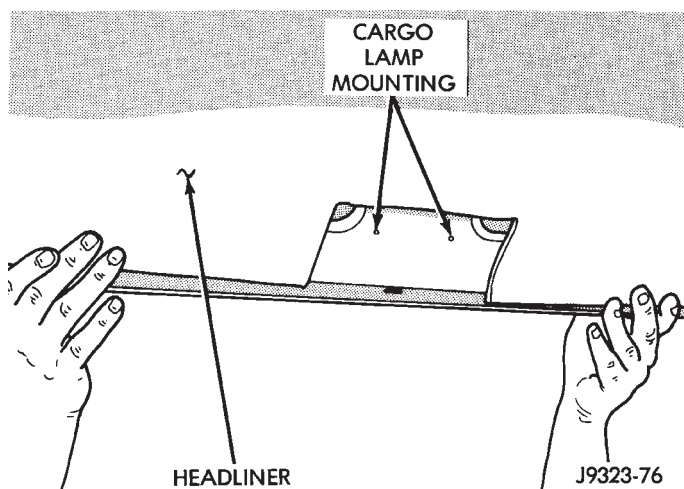


Fig. 29 Headliner Positioning/Rear

SUNVISORS

REMOVAL

- (1) Remove screws that attach sunvisor arm support bracket to headliner and roof panel (Fig. 24).
- (2) Detach sunvisor from support bracket (Fig. 24).
- (3) Remove sunvisor from vehicle.
- (4) Remove retaining screw and support bracket (Fig. 24).

For installation, reverse removal procedure.

MINI-FLOOR CONSOLE

PARKING BRAKE HANDLE COVER

REMOVAL

- (1) Pull up and remove cup holder from center of parking brake cover (Fig. 30).
- (2) Remove 2 screws retaining parking brake bezel (Fig. 31).
- (3) Pull up on parking brake and remove parking brake cover.

For installation, reverse removal procedure.

SHIFTER COVER

REMOVAL

- (1) Pull transmission shift lever handle straight up and remove handle.
- (2) Remove transmission and transfer case shift indicator bezels by prying upward to release them (Fig. 31).
- (3) Disconnect lamp sockets from bezels (Fig. 30).
- (4) Remove console retaining screws (Fig. 32).
- (5) Remove mini-console from transmission tunnel (Fig. 30).

For installation, reverse removal procedure.

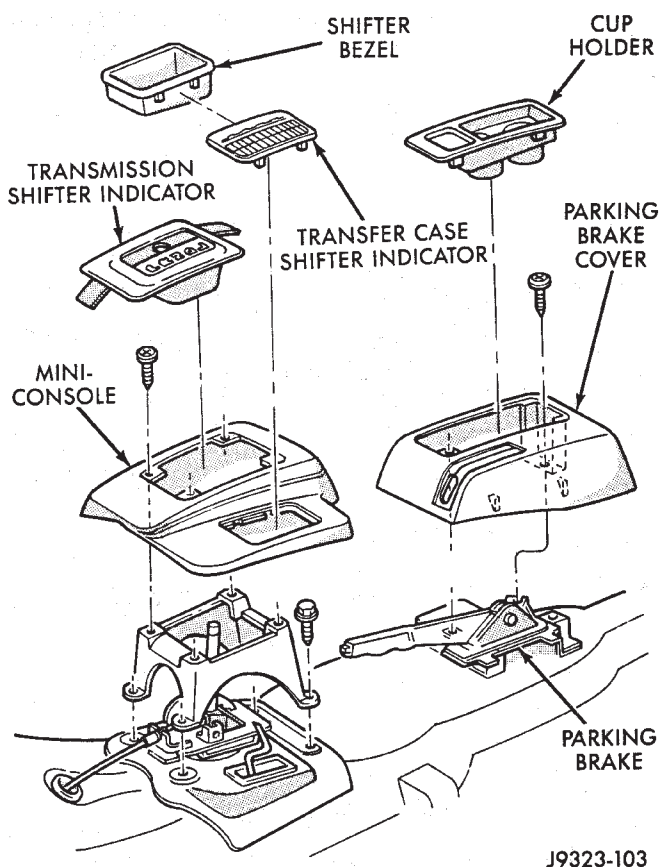


Fig. 30 Mini-Console Components

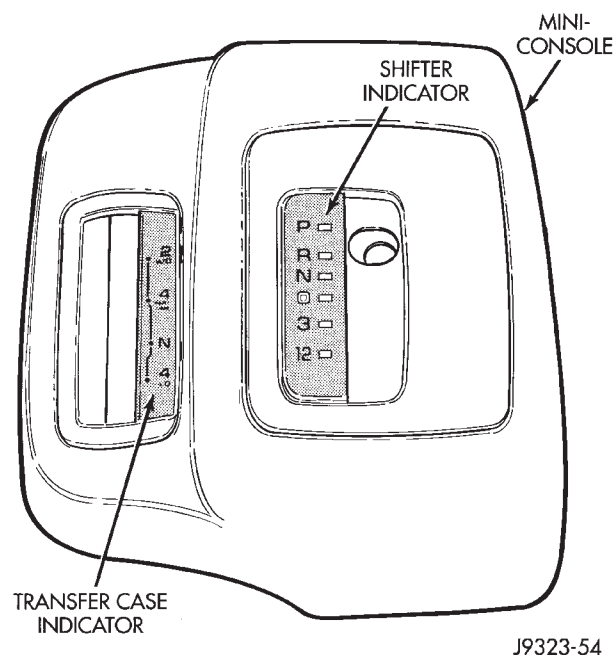
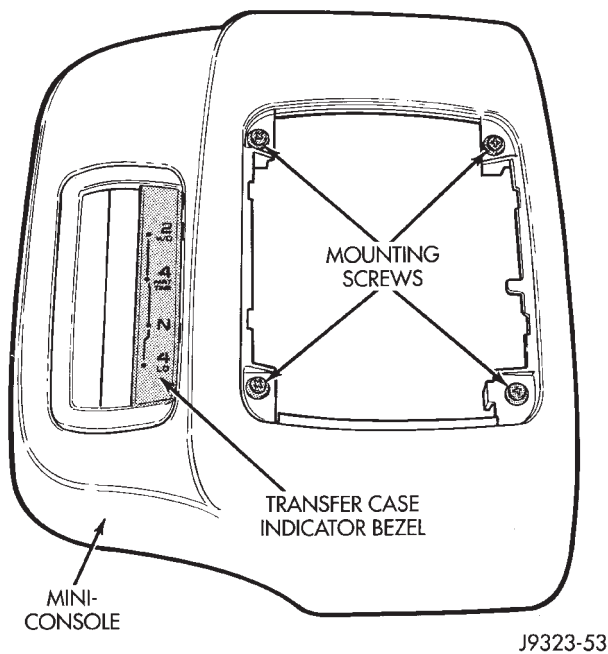


Fig. 31 Mini-Console Bezels

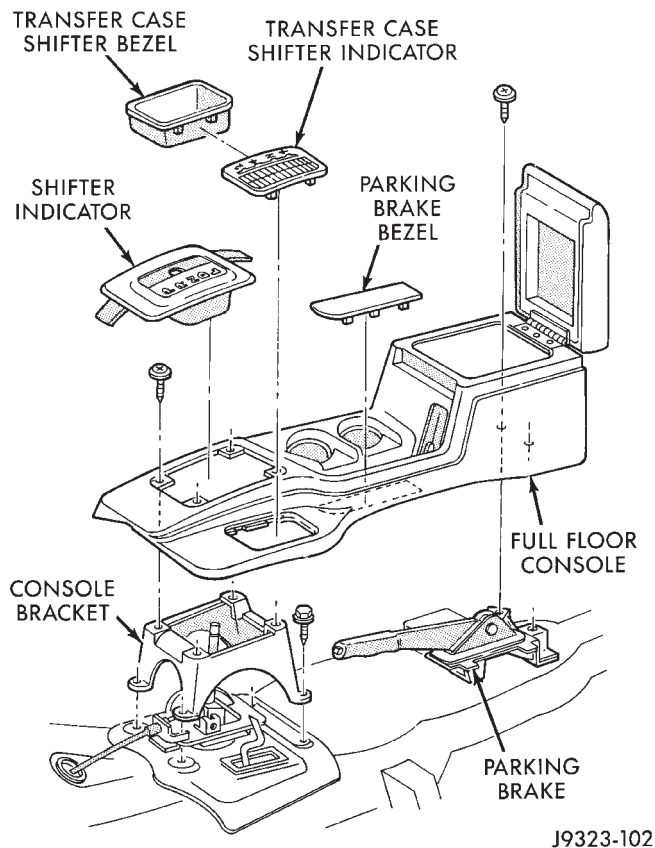
FULL FLOOR CONSOLE

REMOVAL

- (1) Pull transmission shift lever handle straight up and remove handle.

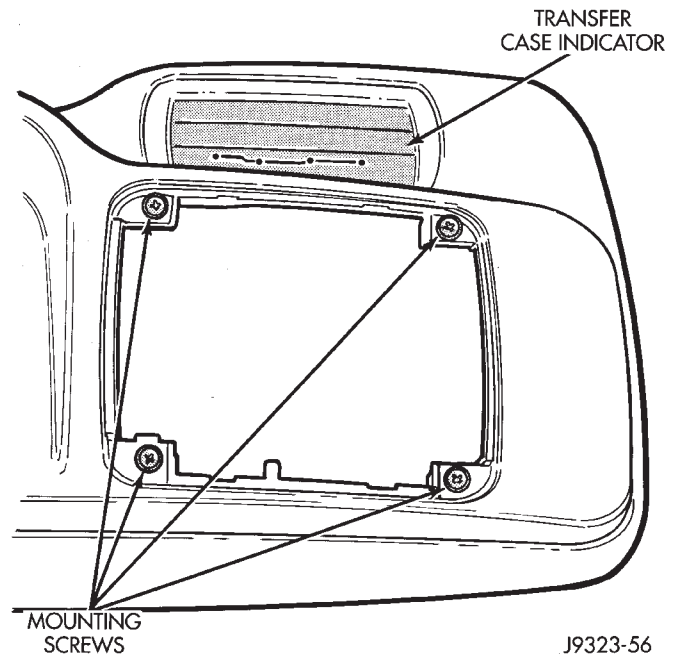
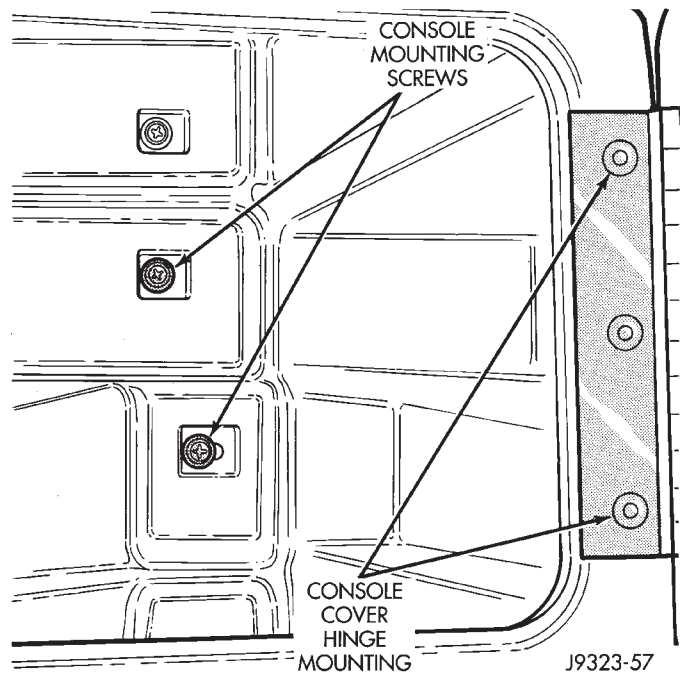
**Fig. 32 Mini-Console Mounting**

(2) Remove transmission and transfer case shift indicator bezels by prying upward to release them. Position flat screwdriver between bezel and console to remove indicator bezel.

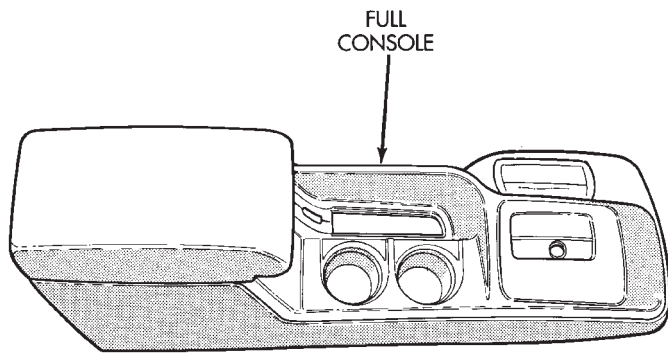
**Fig. 33 Full Console Components**

(3) Disconnect lamp sockets from bezels (Fig. 33).

(4) Remove console retaining screws (Figs. 34 and 35).

**Fig. 34 Console Mounting/Front****Fig. 35 Console Mounting/Rear**

(5) Remove console from floor (Fig. 36). For installation, reverse removal procedure.

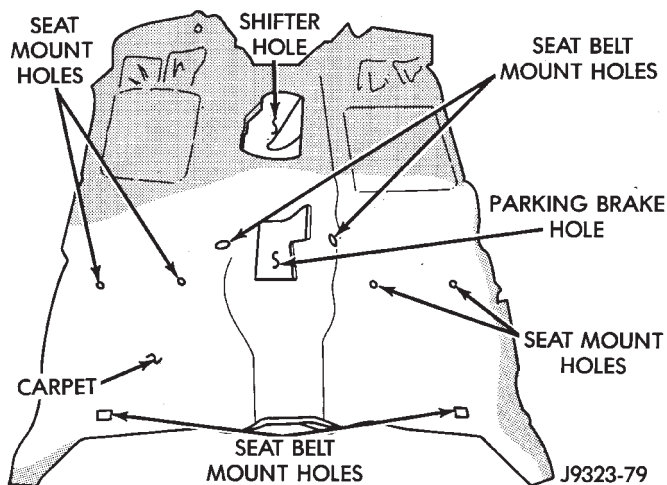


J9323-58

Fig. 36 Full Console**CARPETS AND FLOOR MATS****FRONT CARPET/MAT****REMOVAL**

- (1) Remove lower B-pillar trim panels.
- (2) Remove front and rear seats (as applicable).
- (3) As necessary, remove trim panels and moldings.
- (4) Remove floor console.
- (5) Remove all other interfering components.
- (6) Remove carpet and mat from floor panel (Fig. 37).

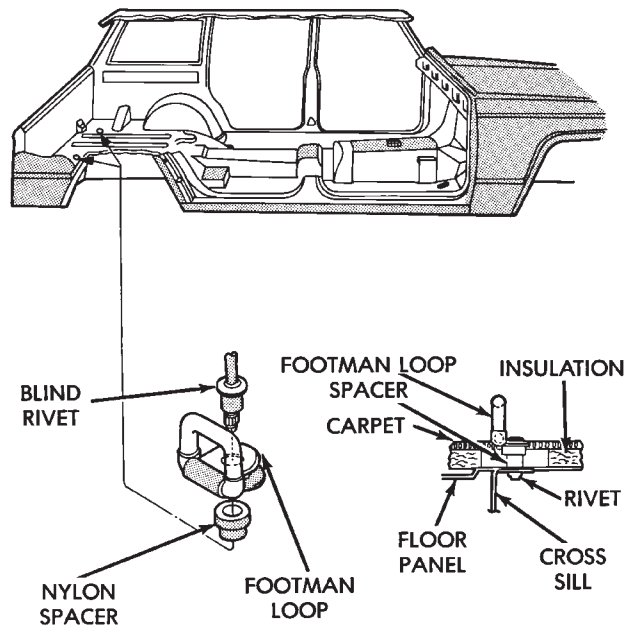
For installation, reverse removal procedure.



J9323-79

Fig. 37 Front Carpet & Mat**CARGO CARPET/MAT****REMOVAL**

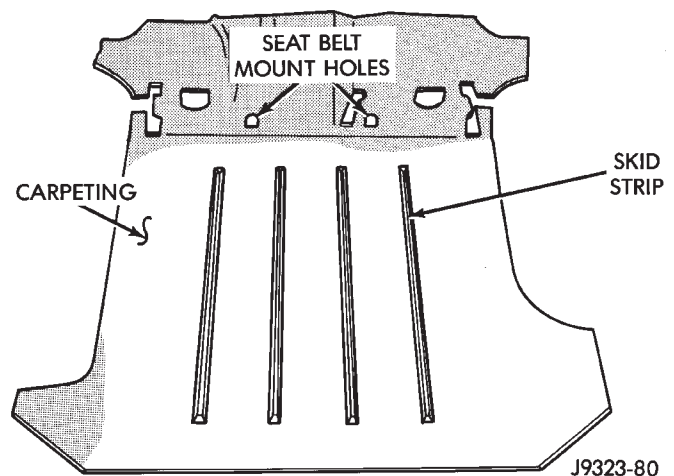
- (1) Remove quarter trim panels.
- (2) Remove retaining screws, and liftgate trim panel.
- (3) Drill-out retaining rivet heads and remove cargo tie-down footman loops from carpet (Fig. 38).
- (4) Remove rear seats and belts.
- (5) As necessary, remove trim panels and moldings.



J9223-188

Fig. 38 Cargo Tie-Down Footman Loop

- (6) Remove all other interfering components.
- (7) Remove carpet and mat from floor panel (Fig. 39).



J9323-80

Fig. 39 Rear Carpet & Mat

- (8) If necessary, remove skid strips from carpet.
- For installation, reverse removal procedure.

FUEL DOOR CABLE**REMOVAL**

- (1) Remove left lower B-pillar trim panel.
- (2) Remove rear seats.
- (3) Remove left rear quarter trim panel.
- (4) Pull up on side of carpeting along rear door sill.
- (5) Disconnect and remove fuel door cable at fuel door lever (Fig. 40).

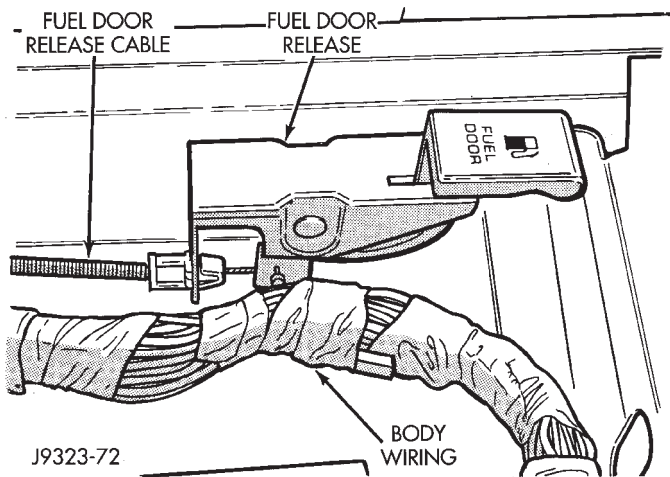


Fig. 40 Fuel Door Lever

(6) Remove cable from routing clips along floor (Fig. 41).

(7) Remove cable from fuel door latch and grommet (Fig. 42).

(8) Remove cable from vehicle.

For installation, reverse removal procedure.

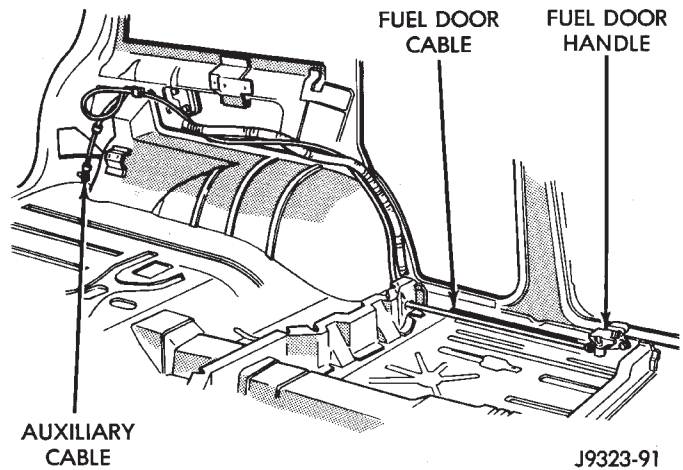


Fig. 41 Fuel Door Cable Routing

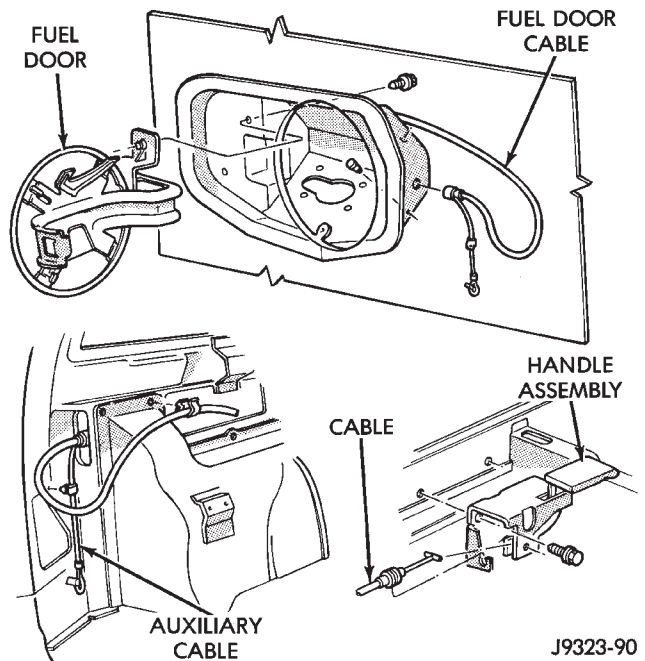


Fig. 42 Fuel Door Components

REFINISHING PROCEDURES

SERVICE INFORMATION

Exterior vehicle body colors are identified on the Body Code plate. The plate is attached to the top, right side of the cowl below the cowl grille. The color code location is described in the manual introduction.

OEM paint colors are generally available from all of the major paint suppliers. They are supplied in the form of either mixing formulas or factory packaged (pre-mixed) paint.

The exterior colors and corresponding Grand Cherokee paint codes are listed in the following chart.

BASE COAT/CLEAR COAT FINISH

On most vehicles a two part paint application (base coat/clear coat) is used. Color paint that is applied to primer is called base coat. The clear coat protects base coat from ultraviolet light. It also provides a durable high gloss finish.

WET SANDING, BUFFING AND POLISHING

Minor acid etching, orange peel or smudging in clear coat can be reduced with light wet sanding, hand buffing and polishing. If the finish has been wet sanded in the past, it cannot be repeated. Wet sanding operation should be performed by a trained automotive painter.

CAUTION: Do not remove clear coat finish, if equipped. Base coat paint must retain clear coat to shine.

PAINTED SURFACE TOUCH-UP

When a painted metal surface has been scratched or chipped, it should be touched-up as soon as pos-

sible. For best results, use Mopar®Scratch Filler/Primer, Touch-up Paints and Clear Top Coat. Refer to Introduction group of this manual for Body Code Plate information.

TOUCH-UP PROCEDURE

- (1) Scrape loose paint and corrosion from inside scratch or chip.
- (2) Clean affected area with Mopar®Tar/Road Oil Remover and allow to dry.
- (3) Fill the inside of the scratch or chip with a coat of filler/primer. Do not overlap primer onto good surface finish. The applicator should be wet enough to puddle/fill the defect without running. Do not stroke brush applicator on body surface. Allow the filler/primer to dry hard.
- (4) Cover the filler/primer with color touch-up paint. Do not overlap color touch-up onto the original color coat. Butt the new color to the original color if possible. Do not stroke applicator brush on body surface. Allow touch-up paint to dry hard.
- (5) On vehicles without clear coat, the touch-up color can be lightly (600 grit) wet sanded and polished with rubbing compound.
- (6) On vehicles with clear coat, apply clear top coat to touch-up paint with the same technique as described in step 4. Allow clear top coat to dry hard. If desired, step 5 can be performed on clear top coat.

PAINT CODE CHART

GENERAL INFORMATION

The following paint code chart lists the paint color name on the left side and the paint code on the right side. The paint colors listed are available at your local paint supplier. Clear Coat (CC) colors are designated after the color title.

EXTERIOR COLORS

Colorado Red—CC	HE4
Bk. Cherry Pearl—CC.....	FM9
Lt. Pearlstone Pearl—CC.....	HV1
Hunter Green (Met)—CC.....	JG5

Jewel Blue Pearl—CC.....	MC9
Lt. Blue Satin Glow—CC	KBD
Black—CC	DX8
Brt. Silver Quartz Met.—CC	LDA
Dk. Quartz Gray Met.—CC	HD8
Bright White—CC.....	GW7

INTERIOR COLORS

Agate/Med. Quartz.....	AD
Crimson Red/Dk. Crimson	MM
Lt./Med. Driftwood	FF

