

BODY

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GENERAL SERVICE INFORMATION

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GENERAL INFORMATION

VEHICLE IDENTIFICATION

Throughout this group, references to the Chrysler Corporation vehicle family identification code are used when describing a procedure that is unique to that vehicle. Refer to Introduction Group of this manual for detailed information on vehicle identification. If a procedure is common to all vehicles covered in this manual, no reference will be made to a vehicle family code.

SAFETY PRECAUTIONS AND WARNINGS

WARNING: EYE PROTECTION SHOULD BE USED WHEN SERVICING GLASS COMPONENTS. PERSONAL INJURY CAN RESULT.

USE A OSHA APPROVED BREATHING FILTER WHEN SPRAYING PAINT OR SOLVENTS IN A CONFINED AREA. PERSONAL INJURY CAN RESULT.

AVOID PROLONGED SKIN CONTACT WITH PETROLEUM OR ALCOHOL- BASED CLEANING SOLVENTS. PERSONAL INJURY CAN RESULT.

DO NOT STAND UNDER A HOISTED VEHICLE THAT IS NOT PROPERLY SUPPORTED ON SAFETY STANDS. PERSONAL INJURY CAN RESULT.

CAUTION: When holes must be drilled or punched in an inner body panel, verify depth of space to the

outer body panel, electrical wiring, or other components. Damage to vehicle can result.

Do not weld exterior panels unless combustible material on the interior of vehicle is removed from the repair area. Fire or hazardous conditions, can result.

Always have a fire extinguisher ready for use when welding.

Disconnect the negative (-) cable clamp from the battery when servicing electrical components that are live when the ignition is OFF. Damage to electrical system can result.

Do not use abrasive chemicals or compounds on painted surfaces. Damage to finish can result.

Do not use harsh alkaline based cleaning solvents on painted or upholstered surfaces. Damage to finish or color can result.

Do not hammer or pound on plastic trim panel when servicing interior trim. Plastic panels can break.

Chrysler Corporation uses many different types of push-in fasteners to secure the interior and exterior trim to the body. Most of these fasteners can be reused to assemble the trim during various repair procedures. At times, a push-in fastener cannot be removed without damaging the fastener or the component it is holding. If it is not possible to remove a fastener without damaging a component or body, cut or break the fastener and use a new one when installing the component. Never pry or pound on a

GENERAL INFORMATION (Continued)

plastic or pressed-board trim component. Using a suitable fork-type prying device, pry the fastener from the retaining hole behind the component being removed. When installing, verify fastener alignment with the retaining hole by hand. Push directly on or over the fastener until it seats. Apply a low-force pull to the panel to verify that it is secure.

When it is necessary to remove components to service another, it should not be necessary to apply excessive force or bend a component to remove it. Before damaging a trim component, verify hidden fasteners or captured edges holding the component in place.

PAINT

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GENERAL INFORMATION

PAINT CODE

A paint code is provided on the body code plate located in the engine compartment. Refer to the Introduction section at the front of this manual for body code plate description. The paint and trim codes are also included on the Vehicle Safety Label located on the driver's door end frame.

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 the base coat from ultraviolet light and provides a durable high-gloss finish.

WET SANDING, BUFFING, AND POLISHING

Minor acid etching, orange peel, or smudging in clear coat or single-stage finishes 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 paint technician.**

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

PAINTED SURFACE TOUCHUP

When a painted metal surface has been scratched or chipped, it should be touched-up as soon as possible to avoid corrosion. 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.

TOUCHUP 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 brush 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 touchup color onto the original color coat around the scratch or chip. Butt the new color to the original color, if possible. Do not stroke applicator brush on body surface. Allow touchup paint to dry hard.
- (5) On vehicles without clear coat, the touchup color can be lightly wet sanded (1500 grit) and polished with rubbing compound.
- (6) On vehicles with clear coat, apply clear top coat to touchup 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.

GENERAL INFORMATION (Continued)

AFTERMARKET PAINT REPAIR PRODUCTS

1997 EXTERIOR COLORS

EXTERIOR COLOR	CHRY CODE*	PPG	BASF	DUPONT	S-W ACME M-S	AKZO NOBEL SIKKENS
Deep Amethyst Pearl Coat	TCU	5247	27039	B9751	52565	CHA97:TCU
Candy Apple Red Mt. Tint C/C	RHC	4447	25045	B9518	50267	CHA96:RHC
		5023		B9548	50268	
Drama Gold Metallic Clear Coat	SYK	83540	26096	B9617	51525	CHA96:SYK
Spruce Pearl Coat	RPE	47426	25050	B9526	50501	CHA95:RPE
Black Clear Coat	DX8	9700	15214	99	34858	CHA85:DX8
					90- 5950	
Brt. Platinum Metallic Clear Coat	MS4	4820	24082	B9642	48823	CHA94:MS4
Opal Satin Glow	SW4	83541	26090	B9621	51538	CHA96:SW4
Stone White Clear Coat	SW1	83542	26089	B9622	51539	CHA96:SW1

*Herberts Standox and Spies Hecker use the Chrysler paint code as listed on the Body Code Plate.

1997 LOWER BODY APPLIQUE COLORS

LOWER BODYSIDE APPLIQUE COLOR	CHRY CODE	PPG	BASF	DUPONT	S-W ACME M-S	AKZO NOBEL SIKKENS
Wildberry	MMB	4678	22108	B9332	46949	CHAMMMB
Candy Apple Red Met. Tinted C/C	RHC	4447	25045	B9518	50267	CHA96: RHC
		5023		B9548	50268	
Drama Gold Met. C/C	SYK	83540	26096	B9617	51525	CHASYKM
Spruce	RPE	47426	25050	B9526	50501	CHARPEM
Dk. Fernlea Satin	MFC	35447	25049	C9325	48037	CHA93: MFC
Brt. Platinum	MS4	4820	24082	B9462	48823	CHAMS4M
Radiant Silver	CA1	34852	14220	C8312	33432	CHACA1M
Black	DX8	9700	15214	F0204	34858	CHADX8M
					90- 5950	
Opal S/G	SW4	5073	26090	B9621	51538	CHA96: SW4
Stone White	SW1	83542	26089	B9622	51539	CHASW1M
Dk. Quartz W/P	MDL	35418	23052	C9322	47883	CHA93: MDL
Med. Quartz C/C	HD2	4321	20214	B8948	41562	CHA89: HD2

GENERAL INFORMATION (Continued)

1997 INTERIOR COLORS

INTERIOR COLOR	CHRY CODE	PPG	BASF	DUPONT	S-W ACME M-S
Agate	AZ	9856/2-1461	22135	C9208	45994
Agate/Med Quartz(LAZ/HD5)	AD	9856/2-1461	22135/19133	C9208/C8904	45994/40075
		34618/2-1346			
Dk/Med Quartz (HS6/HD5)	SD	35590/2-1461	23062/19133	C9345/C8904	47458/40075
		34618/2-1364			
Blue Spruce	P8	18888/2-1578	25067	C9508	50511
Agate/Blue Spruce (LAZ/RP8)	AP	9856/2-1461	22135/25067	C9208/B9526	45994/50511
		18888/2-1578			
Dark/Med Driftwood (LF8/MF6)	FF	27242/2-1462	22136/22137	C9273/C9274	45999/47481
		27243/2-1463			
Agate/Med Driftwood (LAZ/MF6)	AF	9856/2-1461 27468/2-1346 27468/2-1346	6329/19133	44219/C8904	45994/47481

STATIONARY GLASS

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DESCRIPTION AND OPERATION

SAFETY PRECAUTIONS

WARNING: DO NOT OPERATE THE VEHICLE WITHIN 24 HOURS OF WINDSHIELD INSTALLATION. IT TAKES AT LEAST 24 HOURS FOR URETHANE ADHESIVE TO CURE. IF IT IS NOT CURED, THE WINDSHIELD MAY NOT PERFORM PROPERLY IN AN ACCIDENT.

URETHANE ADHESIVES ARE APPLIED AS A SYSTEM. USE GLASS CLEANER, GLASS PREP SOLVENT, GLASS PRIMER, PVC (VINYL) PRIMER AND PINCHWELD (FENCE) PRIMER PROVIDED BY THE ADHESIVE MANUFACTURER. IF NOT, STRUCTURAL INTEGRITY COULD BE COMPROMISED.

BE SURE TO REFER TO THE URETHANE MANUFACTURER'S DIRECTIONS FOR CURING TIME SPECIFICATIONS, AND DO NOT USE ADHESIVE AFTER ITS EXPIRATION DATE.

VAPORS THAT ARE EMITTED FROM THE URETHANE ADHESIVE OR PRIMER COULD CAUSE PERSONAL INJURY. USE THEM IN A WELL-VENTILATED AREA.

SKIN CONTACT WITH URETHANE ADHESIVE SHOULD BE AVOIDED. PERSONAL INJURY MAY RESULT.

ALWAYS WEAR EYE AND HAND PROTECTION WHEN WORKING WITH GLASS.

CAUTION: Protect all painted and trimmed surfaces from coming in contact with urethane or primers.

Be careful not to damage painted surfaces when removing moldings or cutting urethane around windshield.

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 the windshield to the fence is difficult to cut or clean from any surface. If the moldings are set in urethane, it would also be unlikely they could be salvaged. Before removing the windshield, check

the availability of the windshield and moldings from the parts supplier.

REMOVAL AND INSTALLATION

WINDSHIELD

The urethane adhesive holding the windshield to the opening pinch weld (fence) can be cut using a sharp cold knife from the exterior of the vehicle. Using the cold knife method is effective if the windshield is already broken. If the glass must be salvaged, cutting the urethane adhesive from the interior of the vehicle using a reciprocating or oscillating power knife is recommended.

RECOMMENDED TOOLS AND ADHESIVE

POWER KNIFE

- Fein® Power Cut-out Knife
- Equalizer® Magnum, Interior Auto Glass Cut Out Knife

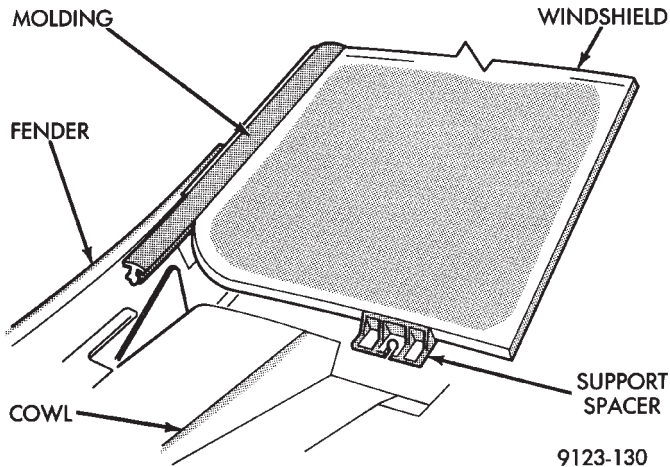
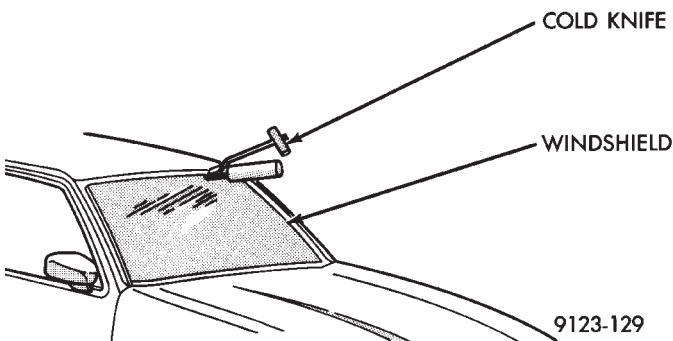
ADHESIVE, PRIMER AND CLEANER

Mopar® Windshield Glass Polyurethane package or equivalent must be used in order to ensure that the vehicle will conform to the FMVSS 212 windshield retention standard and the FMVSS 216 roof crush standard.

REMOVAL

- (1) Remove inside rear view mirror.
- (2) Remove cowl cover. Refer to Cowl Cover Removal paragraph in this group.
- (3) Remove windshield moldings. (Fig. 1) 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. 2)
- (5) Separate windshield from vehicle.

REMOVAL AND INSTALLATION (Continued)

**Fig. 1 Windshield Moldings****Fig. 2 Cut Urethane Around Windshield**

WINDSHIELD INSTALLATION

CAUTION: Open the left front door glass before installing windshield to avoid pressurizing the passenger compartment. If a door is slammed before urethane bonding is cured, water leaks can result.

Allow the urethane at least 24 hours to cure before returning the vehicle to use.

To avoid stressing the replacement windshield, the urethane bonding material on the windshield fence should be smooth and consistent to the shape of the replacement windshield. The support spacers should be cleaned and properly installed on weld studs or repair screws at bottom of windshield opening.

(1) Place replacement windshield into position and center in the opening against the support spacers.

(2) Verify the glass lays evenly against the pinch weld fence at the sides, top and bottom of the replacement windshield. If not, the pinch weld fence must be formed to the shape of the new glass.

(3) Mark the glass at the support spacers with a grease pencil or pieces of masking tape and ink pen to use as a reference for installation (Fig. 3).

(4) Remove replacement windshield from windshield opening.

(5) 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. 4).

WARNING: DO NOT USE SOLVENT BASED GLASS CLEANER TO CLEAN WINDSHIELD BEFORE APPLYING GLASS PREP AND PRIMER. POOR ADHESION CAN RESULT.

(6) Clean inside of windshield with ammonia based glass cleaner and lint-free cloth.

(7) Apply molding to perimeter of windshield.

(8) Apply Glass Prep adhesion promoter 25 mm (1 in.) wide around perimeter of windshield and wipe with clean/dry lint-free cloth until no streaks are visible.

(9) Apply Glass Primer 25 mm (1 in.) wide around perimeter of windshield. Allow at least three minutes drying time.

(10) Using a razor knife, remove as much original urethane as possible. Do not damage paint on windshield fence.

(11) Apply pinch weld primer 15 mm (.75 in.) wide around the windshield fence. Allow at least three minutes drying time.

(12) If a low viscosity urethane adhesive is used, install compression spacers on the fence around the windshield opening (Fig. 5).

(13) Apply a 10 mm (0.4 in.) bead of urethane along centerline of windshield fence.

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

(15) Slowly lower windshield glass to windshield opening fence. Guide the molding into proper position as necessary. Push windshield inward molding is flush to roof line and A-pillars (Fig. 6).

(16) Clean excess urethane from exterior with Mopar® Super Kleen or equivalent.

(17) 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.

(18) Install cowl cover and wipers.

(19) Install inside rear view mirror.

(20) After urethane has cured, remove tape strips and water test windshield to verify repair.

REAR WINDOW GLASS

Refer to the windshield paragraph of this section for a description of tools and adhesive systems that are recommended for use in this procedure.

REMOVAL AND INSTALLATION (Continued)

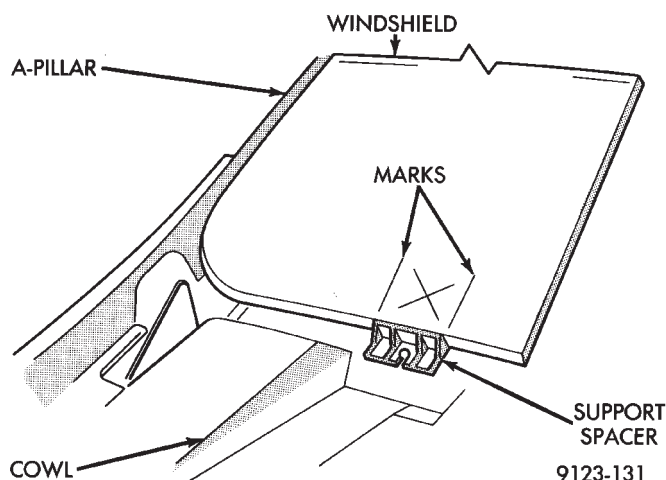


Fig. 3 Center Windshield and Mark at Support Spacers

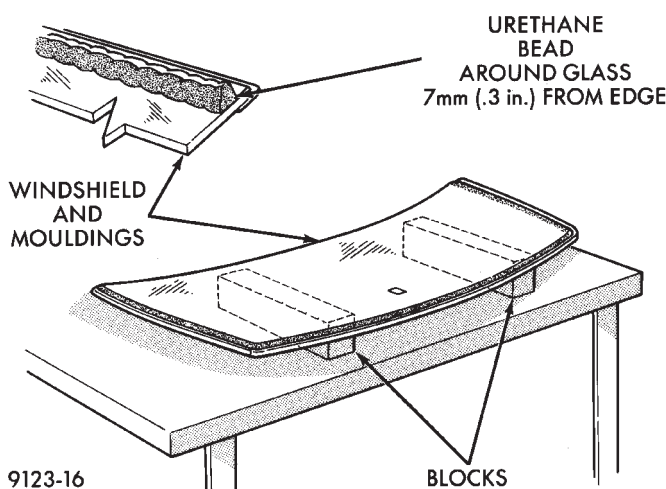


Fig. 4 Work Surface Set up and Molding Installation

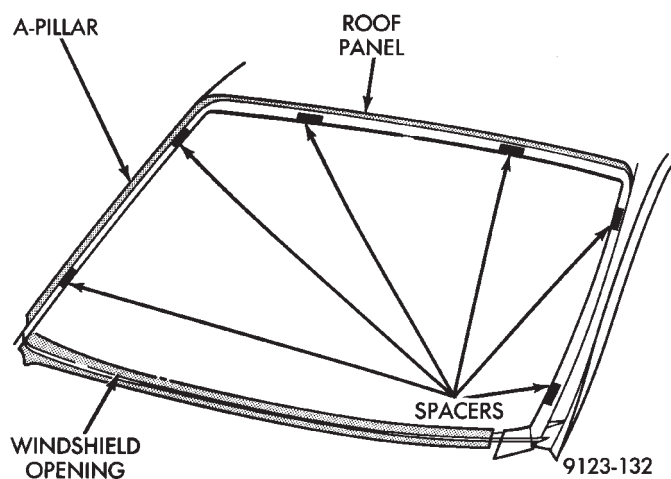


Fig. 5 Position Urethane Compression Spacers

WARNING: DO NOT OPERATE THE VEHICLE WITHIN 24 HOURS OF WINDSHIELD INSTALLATION. IT TAKES AT LEAST 24 HOURS FOR URETHANE ADHESIVE TO CURE. IF IT IS NOT CURED, THE

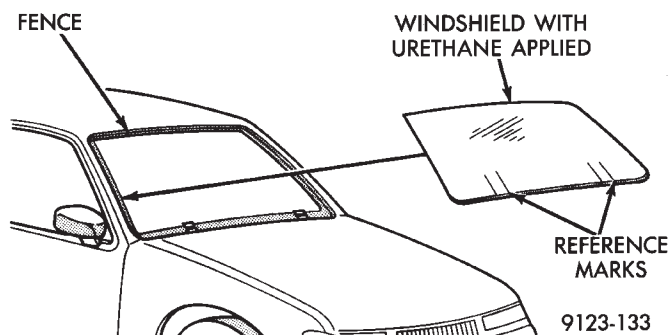


Fig. 6 Lower Windshield Into Position

WINDSHIELD MAY NOT PERFORM PROPERLY IN AN ACCIDENT. BE SURE TO REFER TO THE URETHANE MANUFACTURER'S DIRECTIONS FOR CURING TIME SPECIFICATIONS, AND DO NOT USE ADHESIVE AFTER ITS EXPIRATION DATE.

CAUTION: Open the left front door glass before installing the rear window to avoid pressurizing the passenger compartment if a door is slammed before the urethane bonding is fully cured. Water leaks can result

REAR WINDOW REMOVAL

- (1) Remove rear window moldings.
- (2) Remove upper quarter trim panel.
- (3) Disengage wire connectors from rear window defogger, and rear window mounted radio antenna, if so equipped.
- (4) Remove C-pillar applique, if so equipped.

WARNING: WEAR EYE AND HAND PROTECTION WHEN HANDLING SAFETY GLASS. PERSONAL INJURY CAN RESULT.

CAUTION: Do not damage body or trim finish when cutting out glass or applying fence primer.

- (5) Cut the urethane around the perimeter of the rear window glass. Refer to Windshield section of this group for proper procedures.

- (6) Separate the rear window from the vehicle.

REAR WINDOW INSTALLATION

- (1) Prepare the work area, window fence, and glass the same way as described in the Windshield section of this group.

- (2) Place fence spacers at the locations shown (Fig. 7).

- (3) Install the rear window molding on glass.

- (4) Apply a 10 mm (0.4 in.) bead of urethane along centerline of window fence.

- (5) Install the glass in the same manner described in the Windshield section of this group (Fig. 7).

REMOVAL AND INSTALLATION (Continued)

- (6) Connect rear window defogger wiring, and rear window mounted radio antenna, if so equipped.
- (7) Install C-pillar applique, and interior trim.
- (8) After urethane has cured, water test rear window to verify repair. Verify rear window defogger operation, see Group 8N, Rear Window Defogger.

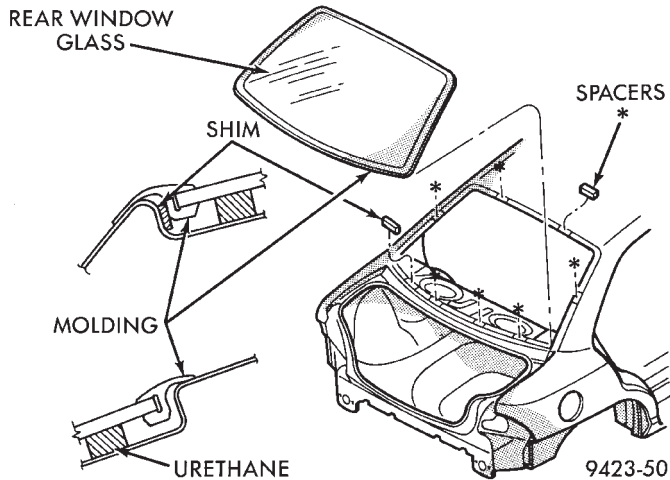


Fig. 7 Rear Window Glass—Typical

REAR DOOR STATIONARY GLASS**REMOVAL**

- (1) Remove door trim panel.
- (2) Open door glass.
- (3) Pull glass run weatherstrip from rear channel.
- (4) Remove screws holding top of stationary glass to door frame.
- (5) Remove nut holding rear of stationary glass to door frame (Fig. 8).
- (6) Remove bolt holding bottom of stationary glass to inner door panel.
- (7) Using a suitable trim stick, pry stationary glass away from rear most end of door frame.

- (8) Using a utility knife, cut butyl adhesive holding stationary glass to door frame.
- (9) Separate stationary glass from vehicle.

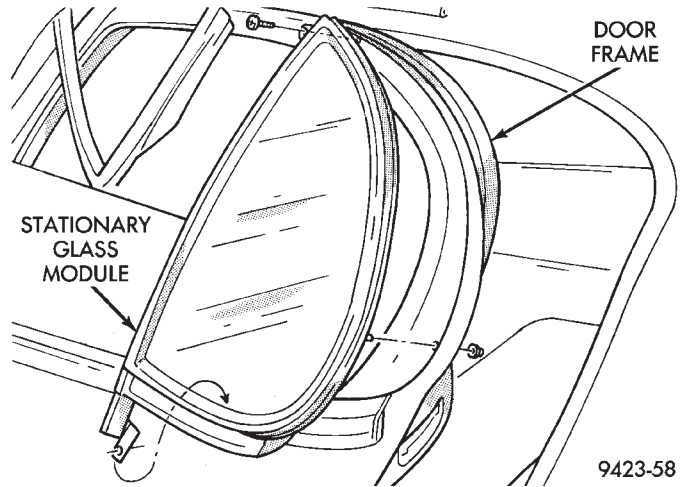


Fig. 8 Rear Door Stationary Glass

INSTALLATION

- (1) Clean butyl adhesive from around stationary glass and door frame.
- (2) Using a suitable fence primer, prime stationary glass and door frame fences.
- (3) Apply 8 mm (5/16 in.) round butyl tape to the fence area on the stationary glass.
- (4) Place stationary glass in position on vehicle.
- (5) Install bolt to hold bottom of stationary glass to inner door panel.
- (6) Install nut to hold rear of stationary glass to door frame.
- (7) Install screws to hold top of stationary glass to door frame.
- (8) Push glass run weatherstrip into rear channel.
- (9) Close door glass.
- (10) Install door trim panel.

SEATS

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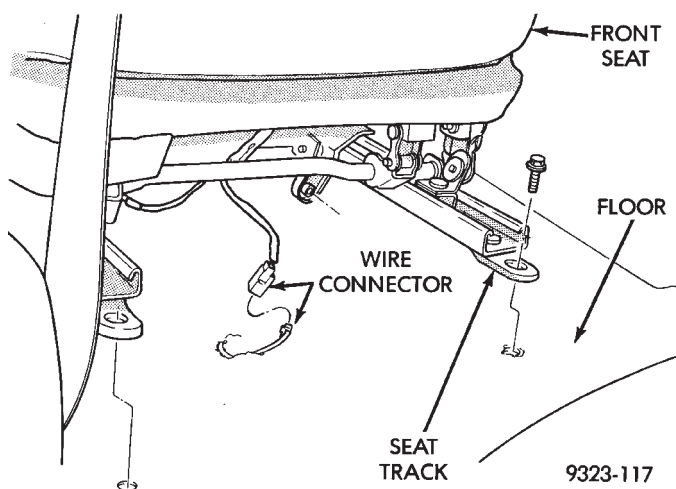
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REMOVAL AND INSTALLATION

FRONT SEAT

REMOVAL

- (1) Position seat far enough forward to gain access to rear mount bolts on floor.
- (2) Disengage front seat wire harness connector from body harness connector.
- (3) Remove bolts holding front of the seat track to floor kick-up.
- (4) Remove bolts holding rear of seat track to floor. (Fig. 1)
- (5) Separate front seat from vehicle.

**Fig. 1 Front Seat—Typical**

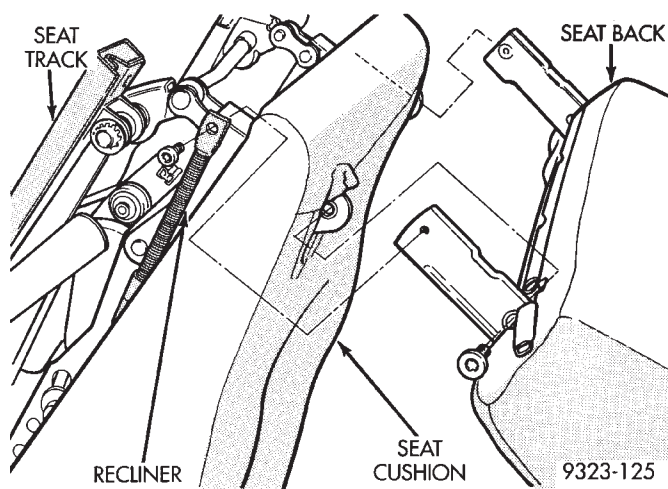
INSTALLATION

- (1) Place front seat in position in vehicle.
- (2) Engage front seat wire harness connector to body harness connector.
- (3) Install bolts to hold front of the seat track to floor kick-up.
- (4) Install bolts to hold rear of seat track to floor.
- (5) Verify front seat operation.

FRONT SEAT TRACK AND RECLINER

REMOVAL

- (1) Remove front seat from vehicle.
- (2) Remove seat cushion side cover and disconnect power seat switch, if equipped.
- (3) Turn bottom of seat upward.
- (4) Remove bolts holding backrest recliners to seat back (Fig. 2).
- (5) Remove bolts holding seat back to cushion.
- (6) Separate seat back from cushion.
- (7) Remove bolts holding seat track to cushion frame (Fig. 3).
- (8) Separate seat track from seat cushion.

**Fig. 2 Recliner Pivot Bolt**

INSTALLATION

- (1) Place seat track in position on seat cushion.
- (2) Install bolts to hold seat track to cushion frame.
- (3) Place seat back in position on cushion.
- (4) Install bolts to hold seat back to cushion.
- (5) Install bolts to hold backrest recliners to seat back.
- (6) Turn bottom of seat downward.
- (7) Install seat cushion side cover and engage power seat switch, if equipped.
- (8) Install front seat from vehicle.

REMOVAL AND INSTALLATION (Continued)

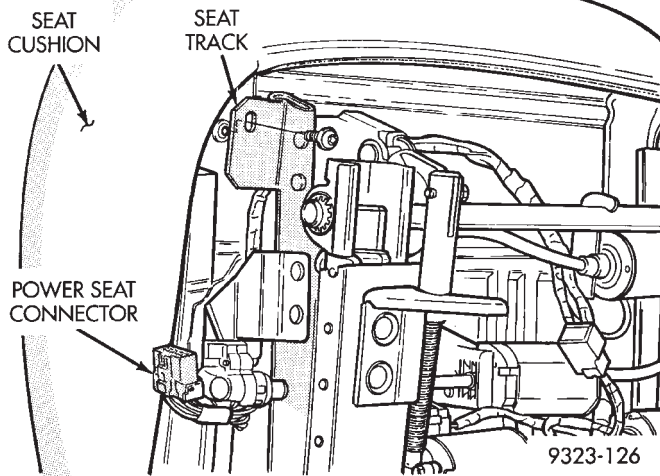


Fig. 3 Front Seat Track—Typical

REAR SEAT CUSHION

REMOVAL

- (1) Pull upward at each end of the rear seat cushion to disengage retainer loops from cups in floor (Fig. 4).
- (2) Separate rear seat cushion from vehicle.

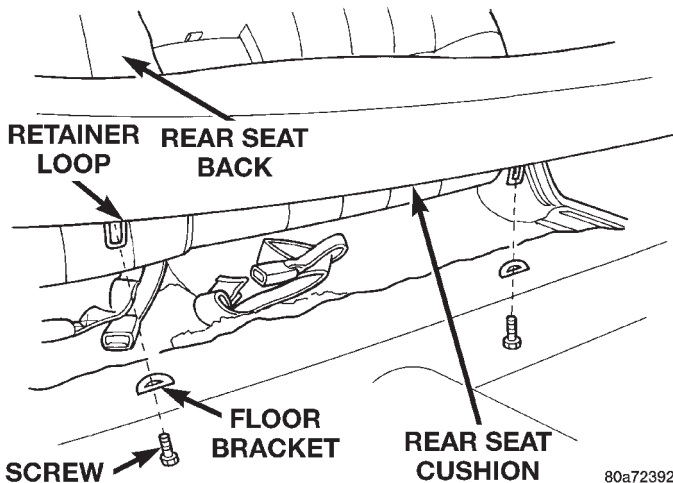


Fig. 4 Rear Seat Cushion

INSTALLATION

- (1) Place rear seat cushion in position in vehicle.
- (2) Engage retainer loops into cup on floor kick-up.
- (3) Push downward at each end of the rear seat cushion to engage retainers.

REAR SEAT BACK

REMOVAL

- (1) Remove rear seat cushion.
- (2) Remove nuts holding rear seat back and belts to floor (Fig. 5).
- (3) Push rear seat back upward to disengage hooks at top of seat back.

- (4) Separate rear seat from vehicle.

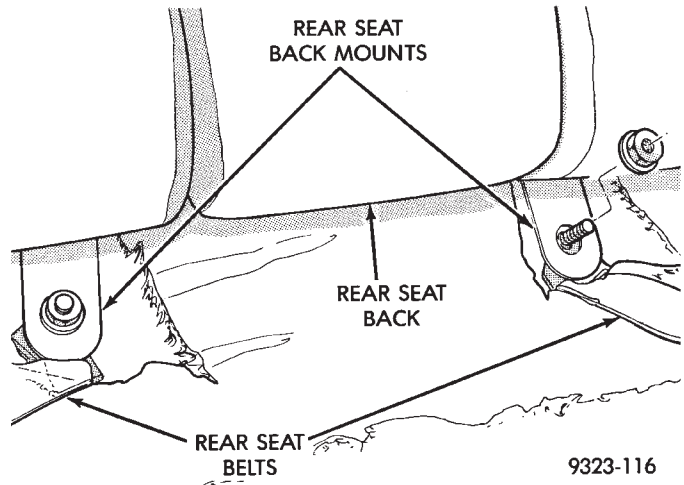


Fig. 5 Rear Seat Back

INSTALLATION

- (1) Place rear seat in position in vehicle.
- (2) Engage hooks at top of seat back.
- (3) Install nuts to hold rear seat back and belts to floor.
- (4) Install rear seat cushion.

REAR SEAT BACK WITH CHILD SEAT

REMOVAL

- (1) Remove rear seat cushion.
- (2) Open child seat and remove lining.
- (3) Remove bolts holding seat back frame to trunk closure panel through access holes in child seat module (Fig. 6).
- (4) Remove nuts holding bottom of rear seat back to floor.
- (5) Lift seat back upward to disengage retainer hook from trunk closure panel.
- (6) Separate rear seat back from vehicle.

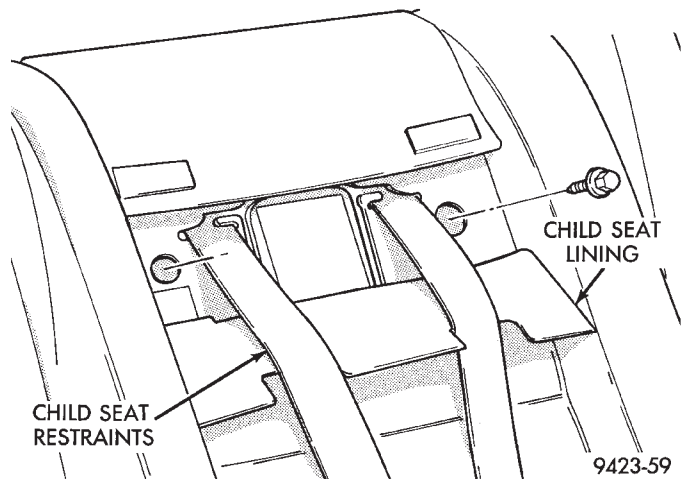


Fig. 6 Rear Seat Back with Child Seat

REMOVAL AND INSTALLATION (Continued)

INSTALLATION

- (1) Place rear seat back in position on vehicle.
- (2) Engage retainer hooks on seat back into trunk closure panel.
- (3) Install nuts to hold bottom of rear seat back to floor.
- (4) Install bolts to hold seat back frame to trunk closure panel through access holes in child seat module.
- (5) Install child seat liner.
- (6) Install rear seat cushion.

CHILD SEAT MODULE

REMOVAL

- (1) Remove rear seat back from vehicle.
- (2) Slide lower bolster cushion retainer from channel on child seat cushion.
- (3) Separate lower bolster from seat child seat.
- (4) Remove liner from child seat module.
- (5) Disengage push-in fasteners holding upper bolster to child seat module above shoulder belts.
- (6) Remove screws holding top of child seat module to seat back frame from behind shoulder belts.
- (7) Remove screws holding bottom of child seat module to seat back frame (Fig. 7).
- (8) Separate child seat module from seat back.

INSTALLATION

- (1) Place child seat module in position on seat back.
- (2) Install screws to hold bottom of child seat module to seat back frame.

CAUTION: Do not capture seat belt webbing between module and seat back frame when installing upper screws.

- (3) Install screws to hold top of child seat module to seat back frame from behind shoulder belts.

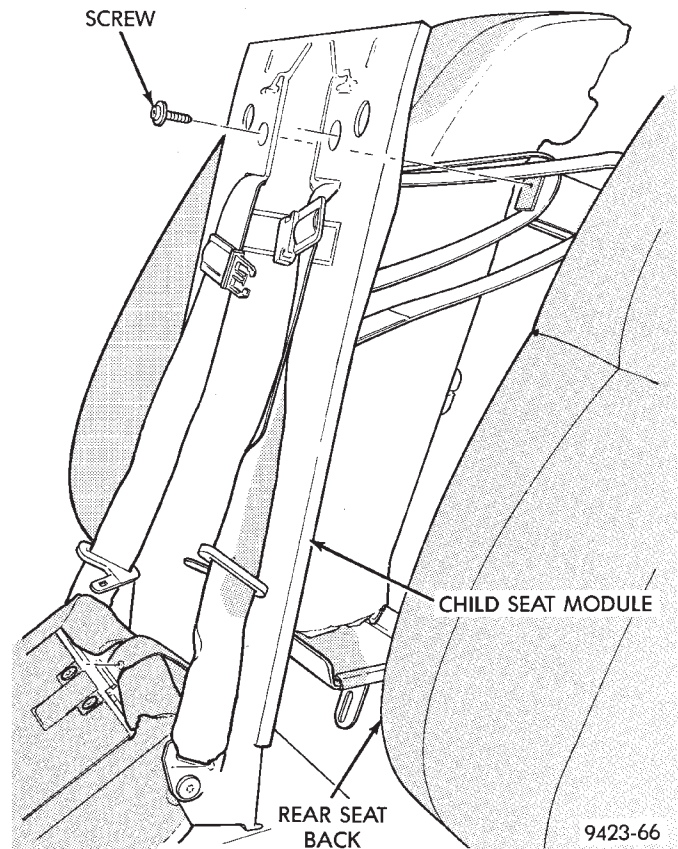


Fig. 7 Child Seat Module

- (4) Engage push-in fasteners to hold upper bolster to child seat module above shoulder belts.
- (5) Install liner in child seat module.
- (6) Place lower bolster in position on seat child seat.
- (7) Slide lower bolster cushion retainer into channel on child seat cushion.
- (8) Install rear seat back in vehicle.

SUNROOF

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DIAGNOSIS AND TESTING

DIAGNOSTIC PROCEDURES

Before beginning sunroof diagnostics verify that all other power accessories are in proper operating condition. If not, a common electrical problem may exist. Refer to Group 8W, Wiring Diagrams, of this publication for circuit, splice and component descriptions.

Check the condition of the circuit protection (fuses 8 and 14, circuit breakers or fuse links). Inspect all wiring connector pins for proper engagement and continuity. Check for battery voltage (G5 and F30) at the power sunroof electronic controller. If battery voltage is detected at the electronic controller, proceed with the following tests.

DIAGNOSIS AND TESTING (Continued)

SUNROOF DIAGNOSIS

CONDITION	POSSIBLE CAUSES
SUNROOF MOTOR INOPERATIVE	1. Contaminated or corroded slides and channels. 2. Binding cable or linkage 3. Faulty circuit ground (Q44) between controller, switch and A-pillar connector
AUDIBLE WHINE WHEN SWITCH IS DEPRESSED, SUNROOF DOES NOT OPERATE	1. Faulty sunroof position sensor. 2. Faulty motor 3. Binding linkage
SUNROOF OPENS BUT DOES NOT CLOSE	1. Binding linkage. 2. Faulty circuit. 3. Faulty switch. 4. Faulty sunroof controller. 5. Faulty sunroof position sensor.
SUNROOF DOES NOT VENT	1. Binding cable. 2. Faulty circuit. 3. Faulty switch. 4. Faulty sunroof controller. 5. Unit timing 6. Binding linkage.
SUNROOF VENTS AND OPENS BUT DOES NOT CLOSE	1. Binding linkage. 2. Faulty circuit 3. Faulty switch. 4. Faulty sunroof controller. 5. Shorted or faulty position sensor,
SUNROOF MOVES IN WRONG DIRECTION WHEN SWITCH IS ACTUATED TO CLOSE	1. Battery voltage interrupted when sunroof was open.
SUNROOF DOES NOT PARK IN CLOSED POSITION	1. Faulty circuit between position sensor and controller. 2. Faulty position sensor. 3. Missing position sensor magnet on left cam slide. 4. Faulty controller. 5. Binding linkage.
SUNROOF WATER LEAK	1. Drain tubes clogged or kinked. 2. Glass panel improperly adjusted. 3. Faulty glass panel seal. 4. Sunroof module joint seal defective.
WIND NOISE FROM SUNROOF	1. Front of glass panel too high or rear too low. 2. Glass panel not centered in opening. 3. Faulty glass panel seal.
GLASS PANEL HANGS UP OR THUMPS BETWEEN VENT AND OPEN	1. Glass panel improperly adjusted (too far rearward). 2. Glass panel seal has inconsistent compression.
OPEN SUNROOF RATTLES WHILE DRIVING	1. Loose attaching hardware. 2. Weak springs on wind deflector.
CLOSED SUNROOF RATTLES WHEN DRIVING	1. Loose attaching hardware. 2. Wind deflector contacting glass panel or drain trough.

REMOVAL AND INSTALLATION

SUNROOF PROCEDURE INFORMATION

The numbered call-outs in the following service procedures refer to the numbered parts found in the figures at the end of this section.

SUNROOF CONTROL SWITCH

REMOVAL

- (1) Remove overhead console.
- (2) Disengage wire connector from sunroof control switch.
- (3) Disengage clips holding switch to overhead console.
- (4) Separate switch from console.

INSTALLATION

- (1) Push switch into hole in back of overhead console until retaining clips engage.
- (2) Engage wire connector into sunroof control switch.
- (3) Install overhead console.

SUNROOF MODULE

REMOVAL

- (1) Disconnect battery negative cable.
- (2) Remove left A-pillar molding.
- (3) Disengage wire connector from body harness at A-pillar.
- (4) Remove headlining.
- (5) Disengage hose clamps and separate drain tubes from sunroof module.
- (6) Remove bolts holding sunroof module mounting brackets to side rails. Do not loosen or remove brackets from module.
- (7) With the aid of a helper, remove bolts holding sunroof module to roof panel.
- (8) Separate sunroof module from roof panel (Fig. 1).
- (9) Extract sunroof module through rear door opening.

INSTALLATION

- (1) Insert sunroof module through rear door opening.
- (2) Place sunroof module in position on roof panel.
- (3) With the aid of a helper, install bolts to hold sunroof module to roof panel.
- (4) Install bolts to hold sunroof module mounting brackets to side rails.
- (5) Push drain tubes onto sunroof module and engage hose clamps.
- (6) Engage wire connector into body harness at A-pillar.
- (7) Connect battery negative cable.

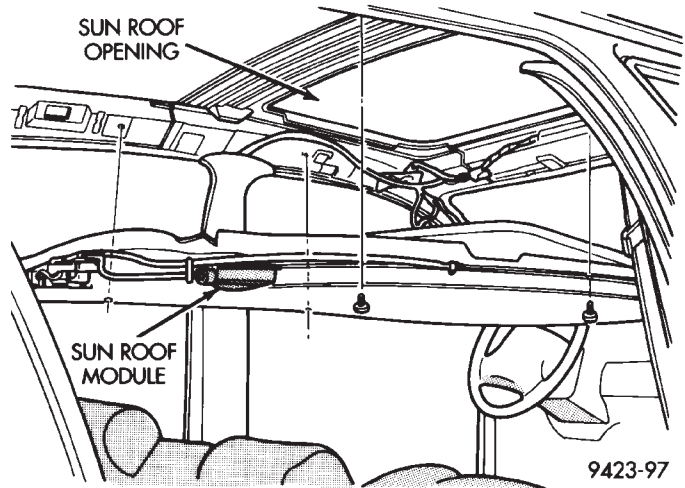


Fig. 1 Sunroof Module

- (8) Test sunroof operation, adjust if necessary.
- (9) Install headlining.
- (10) Install left A-pillar molding.

SUNROOF POSITION SENSOR

REMOVAL

- (1) Remove headlining as necessary to gain access to sensor on driver side of vehicle.
- (2) Disengage sensor wire connector from sunroof controller.
- (3) Remove tape covering position sensor wire harness.
- (4) Using a small screw driver, pry downward on inner lip of sensor retainer bracket.
- (5) Slide sensor from behind bracket.

INSTALLATION

- (1) Slide sensor in position behind retaining bracket.
- (2) Crimp inner lip of retainer bracket around sensor.
- (3) Engage sensor wire connector into sunroof controller.
- (4) Install tape over position sensor wire harness.
- (5) Install headlining.

SUNROOF CONTROLLER

REMOVAL

- (1) Remove headlining as necessary to gain access to controller.
- (2) Disengage controller wire connector from body wire harness at the driver side A-pillar.
- (3) Disengage position sensor wire connector from controller.
- (4) Disengage drive motor wire connector from controller.

REMOVAL AND INSTALLATION (Continued)

- (5) Remove push-in fasteners holding controller to sunroof module.
- (6) Separate controller from vehicle.

INSTALLATION

- (1) Place controller in position on vehicle.
- (2) Install push-in fasteners to hold controller to sunroof module.
- (3) Engage drive motor wire connector into controller.
- (4) Engage position sensor wire connector into controller.
- (5) Engage controller wire connector into body wire harness at the driver side A-pillar.
- (6) Install headlining.

SUNROOF DRIVE MOTOR**REMOVAL**

- (1) Remove headlining as necessary to gain access to drive motor.
- (2) Disengage drive motor wire connector from sunroof controller (43).
- (3) Remove bolts holding drive motor (48) to sunroof module.
- (4) Separate drive motor from sunroof module.

INSTALLATION

- (1) Place drive motor in position on sunroof module.
- (2) Install bolts to hold drive motor to sunroof module.
- (3) Engage drive motor wire connector into sunroof controller.
- (4) Install headlining.

SUNROOF WIND DEFLECTOR**REMOVAL**

- (1) Open sunroof.
- (2) Remove screws holding track access plugs (33) to sunroof housing on each side of wind deflector (34).
- (3) Separate wind deflector from vehicle.

INSTALLATION

- (1) Place wind deflector in position on vehicle.
- (2) Install screws to hold track access plugs to sunroof housing on each side of wind deflector.
- (3) Verify sunroof operation.

TROUGH GUIDE LINK COVER**REMOVAL**

- (1) Open sunroof to the vent position.
- (2) Disengage push-in fasteners holding cover to trough guide link.

- (3) Loosen nut holding guide link trough at rear.
- (4) Separate linkage cover from sunroof.

INSTALLATION

- (1) Place linkage cover in position on sunroof.
- (2) Tighten nut to hold guide link trough at rear.
- (3) Engage push-in fasteners to hold cover to trough guide link.
- (4) Test sunroof operation.

SUNROOF GLASS PANEL**REMOVAL**

- (1) Open sunroof to the vent position.
- (2) Remove trough guide link cover (8).
- (3) Remove nuts (21) holding glass panel to guide brackets (19).
- (4) Separate sunroof glass panel (18) from vehicle.

INSTALLATION

- (1) Verify that sunroof mechanism is in vent position.
- (2) Place sunroof glass panel in position in roof opening.
- (3) Install nuts to hold glass panel to guide bracket, do not tighten nuts.
- (4) Align glass panel as necessary, refer to Glass Panel Alignment paragraph in this section.
- (5) Tighten nuts holding glass panel to 3 N·m (30 in. lbs.) and verify glass panel alignment and operation.
- (6) Install trough guide link covers.

SUNROOF REAR TROUGH**REMOVAL**

- (1) Remove sunroof glass panel.
- (2) Remove screws (26) holding trough guide links to rear trough.
- (3) Remove screws holding rear trough to rear shoes (17).
- (4) Separate rear trough from vehicle.

INSTALLATION

- (1) Place rear trough in position on vehicle.
- (2) Install screws to hold trough to rear shoe (17).
- (3) Install screws (26) to hold trough guide links to rear trough.
- (4) Install sunroof glass panel.

SUNROOF SUNSHADE**REMOVAL**

- (1) Remove sunroof glass panel.
- (2) Remove rear drain trough (25).
- (3) Bow sunshade (46) upward to release sunshade from channel forward of gate slot.

REMOVAL AND INSTALLATION (Continued)

- (4) Lift sunshade upward and forward out of gate slot in left channel.
- (5) Slide sunshade forward.
- (6) Separate sunshade from vehicle.

INSTALLATION

- (1) Place sunshade in position on vehicle.
- (2) Insert sunshade into channel on right side of opening.
- (3) Insert sunshade into gate slot in left channel.
- (4) Slide sunshade rearward.
- (5) Bow sunshade upward and insert sunshade edge into channel forward of gate slot.
- (6) Install rear drain trough.
- (7) Install sunroof glass panel.

SUNROOF GUIDE AND CAM

REMOVAL

- (1) Remove sunroof glass panel.
- (2) Remove glass panel guide brackets (19).
- (3) Push glass panel slides rearward and separate slide from the link (9).
- (4) Intermittently actuate the sunroof switch closed until the forward end of the cam (15) is past the rear end of the plugs (33).
- (5) Remove screws holding plugs (33) to front of tracks.
- (6) Separate plugs from ends of track.
- (7) Remove wind deflector.
- (8) Install track plug on side of sunroof that does not require service. If both sides require service do not install plug.
- (9) Actuate sunroof switch closed until cam stops.
- (10) Remove screws holding guide link (2) to guide (1).
- (11) Separate front guide (1) from sunroof module.
- (12) Intermittently actuate the sunroof switch vent until the cam slide (15) is 12 mm (0.5 in.) past the front of the tracks.
- (13) Separate cable end from cam slide.
- (14) Separate cam slide from sunroof module.
- (15) Remove screws holding trough (25) to rear guide shoes (17).
- (16) Separate trough from sunroof module.
- (17) Slide rear guide shoes forward and out of the sunroof module tracks.

INSTALLATION

- (1) Slide rear guide shoes into forward end of the sunroof module tracks.
- (2) Place trough in position on sunroof module.
- (3) Install screws to hold trough (25) to rear guide shoes (17).
- (4) Place cam slide in position on sunroof module.
- (5) Insert cable end into cam slide.

- (6) Intermittently actuate the sunroof switch vent closed until the cam slide (15) is into the tracks.
- (7) Place front guide (1) in position on sunroof module.
- (8) Install screws to hold guide link (2) to guide (1).
- (9) Actuate sunroof switch open until forward end of cam slide is past rear edge of track plug.
- (10) Remove track plug on side of sunroof that does not require service.
- (11) Install wind deflector.
- (12) Inspect foam tape seal on sunroof track. If necessary, replace with original equipment part.

CAUTION: Rear edge of track plug and screw heads must not be higher than the sunroof track. Damage to sunroof mechanism can result.

- (13) Place track plugs in position on ends of tracks.
- (14) Install screws to hold plugs (33) to front of tracks.
- (15) Install glass panel guide brackets (19).
- (16) Install sunroof glass panel.

SUNROOF CABLES

REMOVAL

- (1) Remove sunroof guides and cams.
- (2) Pull cables forward from tracks.
- (3) Separate cables from vehicle.

INSTALLATION

NOTE: Lubricate cables with Mopar® Lubriplate white grease or equivalent.

- (1) Push cables rearward into tracks and casings.
- (2) Install sunroof guides and cams.

GLASS PANEL SEAL

REPLACE

- (1) Warm the weatherstrip and glass to approximately 38°C (100°F) using a suitable heat lamp or heat gun.
- (2) Pull weatherstrip from glass panel starting from seam.
- (3) Remove adhesive tape residue from edge molding around glass panel.
- (4) Clean edge molding around glass panel with Mopar® Super Kleen solvent or equivalent. Wipe surface dry with lint free cloth.
- (5) Remove protective cover from tape on back of replacement weatherstrip.
- (6) Apply weatherstrip to edge of glass panel starting at front center of panel. The top of weatherstrip should be flush with top surface of glass panel.

REMOVAL AND INSTALLATION (Continued)

(7) Firmly press weatherstrip to glass edge molding to assure adhesion.

(8) If necessary trim ends of weatherstrip to butt firmly against each other.

(9) Join the ends of the weatherstrip together using Mopar® Bond-all Gel Adhesive or equivalent.

SUNROOF COMPONENTS**ADJUSTMENTS****SUNROOF CABLE SYNCHRONIZATION**

CAUTION: After cables, cams or guides have been replaced, the sunroof cables must be synchronized. If the cables are not synchronized, the sunroof linkage will bind and could break the mechanism.

SYNCHRONIZATION PROCEDURE

(1) With sunroof drive motor, glass panel and glass panel slides removed, push cam slides (15) rearward until the cams contact but not release the rear shoes (17).

(2) Slowly pull the cam slides forward until the rear edges of the cam slides are in line with the front of the notches in the tracks (28).

(3) Install sunroof drive motor, glass panel and glass panel slides.

(4) Verify sunroof operation and alignment.

SUNROOF ADJUSTMENT*GLASS PANEL ALIGNMENT*

The sunroof glass panel should be aligned parallel to the sides of the roof opening with slight weatherstrip compression. A 0.13 mm (0.003 in.) thick paper card can be used as a gauge to measure the fit around the roof opening to the glass panel. The front

edge of the glass panel should be flush to 1 mm (0.040 in.) lower than the forward roof panel. The rear edge of the glass panel should be flush to 1 mm (0.040 in.) higher than the rearward roof panel.

ADJUSTING GLASS PANEL SIDE CLEARANCE

(1) Open sunroof to the vent position.

(2) Remove trough guide link covers (8).

(3) Loosen nuts (21) holding glass panel (18) to mounting brackets (19).

(4) Close sunroof glass panel.

(5) Shift glass panel on mounting brackets to achieve proper alignment.

(6) Tighten nuts holding rear of glass panel to brackets to 3 N·m (30 in. lbs.).

(7) Operate sunroof to half open vent position.

(8) Verify glass panel fit and operation.

(9) Install trough guide link cover.

ADJUSTING FRONT OF GLASS PANEL HEIGHT

(1) Close sunroof glass panel.

(2) Remove trough guide link covers (8).

(3) Loosen screws (20) holding glass panel mounting bracket to forward guide plate (3).

(4) Reposition mounting bracket up or down and secure screws.

(5) Verify sunroof operation and install trough guide link covers.

ADJUSTING REAR OF GLASS PANEL HEIGHT

(1) Close sunroof glass panel.

(2) Remove trough guide link covers (8).

(3) Loosen screws (20) holding glass panel mounting bracket to glass panel slides (13).

(4) Reposition glass panel up or down and secure screws.

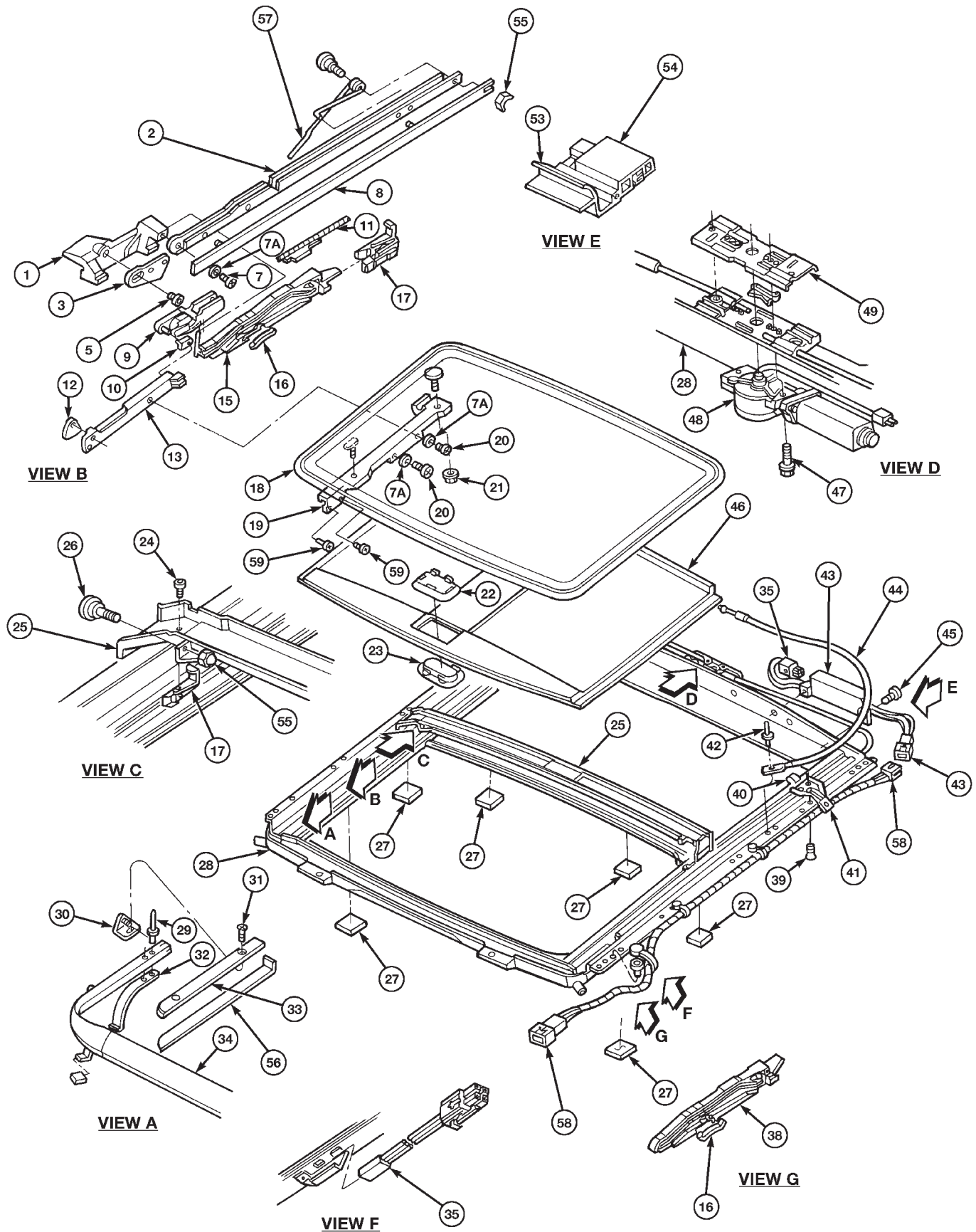
(5) Verify sunroof operation and install trough guide link covers.

ADJUSTMENTS (Continued)

SUNROOF PARTS DESCRIPTION						
1	Guide Assembly-Front R/L			31	Screw- M4-0.7 x 10.0 Flat Head	4-8 in. lbs.
2	Trough/Guide Link			32	Spring-Wind Deflector	
3	Pivot-Front Guide Plate R/L			33	Plug-Track Access R/L	
4	N/A			34	Wind Deflector Assembly	
5	Screw- M5-0.8 x 11.3 Btn Head Shldr	24-36 in. lbs.		35	Switch Assembly- Sensor Mag Complete	
6	N/A			36	N/A	
7	Screw-M5 -0.8 x 6.0 BTN Head	24-36 in. lbs.		37	N/A	
7a	Washer - M5.45 x 8.81 x 0.6			38	Cam Assembly-Slide LH	
8	Cover Assembly-Mech Reveal R/L			39	Screw-M6-1.0 x 16.0 Round Washer	75 in.lbs.
9	Link Assembly-R/L			40	Nut-M6 x 1.0 "U" Type	
10	Bushing-Slide R/L			41	Bracket-Rear Support	
11	Cable Assembly-Molded			42	Rivet-3/16 x .25	
12	Retainer-Slide R/L			43	Controller-Sunroof Open/Vent	
13	Slide-Glass Panel R/L			44	Tube-Return	
14	N/A			45	Retainer	
15	Cam-Slide RH			46	Sunshade Assembly	
16	Spring-Cam Slide			47	Screw-M5-0.8 x 44 Hex Head	13-16 in.lbs.
17	Shoe Assembly-Guide R/L			48	Drive Assembly-Electric	
18	Panel Assembly-Complete			49	Retainer Assembly-Tube	
19	Bracket-Guide R/L			50	N/A	
20	Screw-M5 -0.8 x 12 Btn Head	24-36 in. lbs.		51	N/A	
21	Nut-M5-0.8 Hex Flange	30 in.lbs.		52	N/A	
22	Bezel-Sunscreen			53	Seal-Dust R/L	
23	Fingerwell-Sunscreen			54	Restrictor-Glass Panel Sunshade	
24	Screw-M8-18 x .375 Hi-Lo	11-15 in. lbs.		55	Nut	12-18 in. lbs.
25	Trough Assembly-Water			56	Tape Seal/Plug Track R/L	
26	Shoulder Bolt M4 x 0.7	4 - 8 in.lbs.		57	Glass Panel Spring R/L	
27	Retainer-Dual Lock 1"x1"			58	Controller Harness Extension	
28	Housing Assembly-Complete			59	Screw-M5-.8 x 6.0 Btn Head	24-36 in. lbs
29	Rivet-1/8 x .187 Ctsk Head					
30	Bracket-Hinge Wind Deflector					

ADJUSTMENTS (Continued)

SUNROOF—EXPLODED VIEW



BODY COMPONENTS—LH/D-L-X BODY

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DIAGNOSIS AND TESTING

WATER LEAKS

Water leaks can be caused by poor sealing, improper body component alignment, body seam porosity, missing plugs, or blocked drain holes. Centrifugal and gravitational force can cause water to drip from a location away from the actual leak point, making leak detection difficult. All body sealing points should be water tight in normal wet-driving conditions. Water flowing downward from the front of the vehicle should not enter the passenger or luggage compartment. Moving sealing surfaces will not always seal water tight under all conditions. At times, side glass or door seals will allow water to enter the passenger compartment during high pressure washing or hard driving rain (severe) conditions. Overcompensating on door or glass adjustments to stop a water leak that occurs under severe conditions can cause premature seal wear and excessive closing or latching effort. After completing a repair, water-test vehicle to verify leak has stopped before returning vehicle to use.

VISUAL INSPECTION BEFORE WATER LEAK TESTS

Verify that floor and body plugs are in place, body drains are clear, and body components are properly aligned and sealed. If component alignment or sealing is necessary, refer to the appropriate section of this group for proper procedures.

WATER LEAK TESTS

WARNING: DO NOT USE ELECTRIC SHOP LIGHTS OR TOOLS IN WATER TEST AREA. PERSONAL INJURY CAN RESULT.

When the conditions causing a water leak have been determined, simulate the conditions as closely as possible.

- If a leak occurs with the vehicle parked in a steady light rain, flood the leak area with an open-ended garden hose.
- If a leak occurs while driving at highway speeds in a steady rain, test the leak area with a reasonable velocity stream or fan spray of water. Direct the spray in a direction comparable to actual conditions.
- If a leak occurs when the vehicle is parked on an incline, hoist the end or side of the vehicle to simulate this condition. This method can be used when the leak occurs when the vehicle accelerates, stops or turns. If the leak occurs on acceleration, hoist the front of the vehicle. If the leak occurs when braking, hoist the back of the vehicle. If the leak occurs on left turns, hoist the left side of the vehicle. If the leak occurs on right turns, hoist the right side of the vehicle.

For hoisting recommendations refer to Group 0, Lubrication and Maintenance, General Information section.

WATER LEAK DETECTION

To detect a water leak point-of-entry, do a water test and watch for water tracks or droplets forming on the inside of the vehicle. If necessary, remove interior trim covers or panels to gain visual access to the leak area. If the hose cannot be positioned without being held, have someone help do the water test.

Some water leaks must be tested for a considerable length of time to become apparent. When a leak appears, find the highest point of the water track or drop. The highest point usually will show the point of entry. After leak point has been found, repair the leak and water test to verify that the leak has stopped.

Locating the entry point of water that is leaking into a cavity between panels can be difficult. The trapped water may splash or run from the cavity, often at a distance from the entry point. Most water leaks of this type become apparent after accelerating, stopping, turning, or when on an incline.

MIRROR INSPECTION METHOD

When a leak point area is visually obstructed, use a suitable mirror to gain visual access. A mirror can also be used to deflect light to a limited-access area to assist in locating a leak point.

BRIGHT LIGHT LEAK TEST METHOD

Some water leaks in the luggage compartment can be detected without water testing. Position the vehicle in a brightly lit area. From inside the darkened luggage compartment inspect around seals and body seams. If necessary, have a helper direct a drop light over the suspected leak areas around the luggage compartment. If light is visible through a normally sealed location, water could enter through the opening.

PRESSURIZED LEAK TEST METHOD

When a water leak into the passenger compartment cannot be detected by water testing, pressurize the passenger compartment and soap test exterior of the vehicle. To pressurize the passenger compartment, close all doors and windows, start engine, and set heater control to high blower in HEAT position. If engine can not be started, connect a charger to the battery to ensure adequate voltage to the blower. With interior pressurized, apply dish detergent solution to suspected leak area on the exterior of the vehicle. Apply detergent solution with spray device or soft bristle brush. If soap bubbles occur at a body seam, joint, seal or gasket, the leak entry point could be at that location.

DIAGNOSIS AND TESTING (Continued)

WIND NOISE

Wind noise is the result of most air leaks. Air leaks can be caused by poor sealing, improper body component alignment, body seam porosity, or missing plugs in the engine compartment or door hinge pillar areas. All body sealing points should be airtight in normal driving conditions. Moving sealing surfaces will not always seal airtight under all conditions. At times, side glass or door seals will allow wind noise to be noticed in the passenger compartment during high crosswinds. Over compensating on door or glass adjustments to stop wind noise that occurs under severe conditions can cause premature seal wear and excessive closing or latching effort. After a repair procedure has been performed, test vehicle to verify noise has stopped before returning vehicle to use.

Wind noise can also be caused by improperly fitted exterior moldings or body ornamentation. Loose moldings can flutter, creating a buzzing or chattering noise. An open cavity or protruding edge can create a whistling or howling noise. Inspect the exterior of the vehicle to verify that these conditions do not exist.

VISUAL INSPECTION BEFORE TESTS

Verify that floor and body plugs are in place and body components are aligned and sealed. If component alignment or sealing is necessary, refer to the appropriate section of this group for proper procedures.

ROAD TESTING WIND NOISE

(1) Drive the vehicle to verify the general location of the wind noise.

(2) Apply 50 mm (2 in.) masking tape in 150 mm (6 in.) lengths along weatherstrips, weld seams or moldings. After each length is applied, drive the vehicle. If noise goes away after a piece of tape is applied, remove tape, locate, and repair defect.

POSSIBLE CAUSE OF WIND NOISE

- Moldings standing away from body surface can catch wind and whistle.
- Gaps in sealed areas behind overhanging body flanges can cause wind-rushing sounds.
- Misaligned movable components.
- Missing or improperly installed plugs in pillars.
- Weld burn through holes.

UNIVERSAL TRANSMITTER

Universal Transmitter will operate most:

- Garage door opener
- Gate opener
- Home/Office lighting and/or security system(s)

The transmitter is powered by the M1 circuit that supplies voltage to the driver side visor/vanity lamp.

TRAINING THE UNIVERSAL TRANSMITTER

To train the transmitter refer to the Owner's Manual.

TESTING TRANSMITTER

(1) Check for battery voltage at the Universal Transmitter by pressing a button and seeing if a red lamp comes on. If OK, go to Step 6. If not OK, go to Step 2.

(2) Check if visor/vanity lamp lights. If lamp lights, replace visor. If lamp does not light go to Step 3.

(3) Check fuse. If OK, go to Step 4. If not OK, repair as necessary.

(4) Remove visor and test M1 wire for battery voltage at the visor connector. If voltage is OK, go to Step 5. If no voltage repair wire as necessary. Refer to Group 8W, Wiring Diagrams for proper terminals.

(5) Test Z1 wire for ground at the visor connector. If ground is OK, replace visor. If no ground repair wire as necessary.

(6) Check the instructions in the Owner's Manual and retrain the transmitter. If the transmitter can not be trained replace visor.

REMOVAL AND INSTALLATION

GRILLE

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove push-in fasteners holding grille to fascia (Fig. 1).
- (3) Disengage tabs at bottom of grille from holes in fascia.
- (4) Separate grille from vehicle.

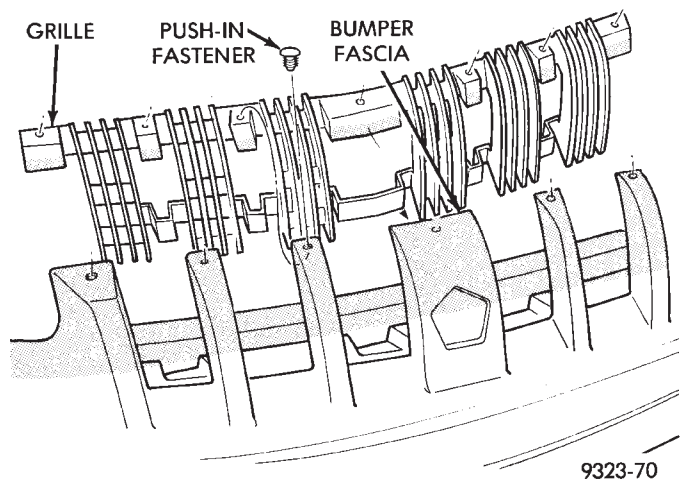


Fig. 1 Grille-Typical

INSTALLATION

- (1) Place grille in position on vehicle.

REMOVAL AND INSTALLATION (Continued)

- (2) Engage tabs at bottom of grille into holes in fascia.
- (3) Install push-in fasteners to hold grille to fascia.

HOOD SAFETY CATCH

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove screw holding safety catch release handle to inside of hood.
- (3) Remove bolts holding hood latch striker and safety catch assembly to inside of hood (Fig. 2).
- (4) Separate safety catch from vehicle.

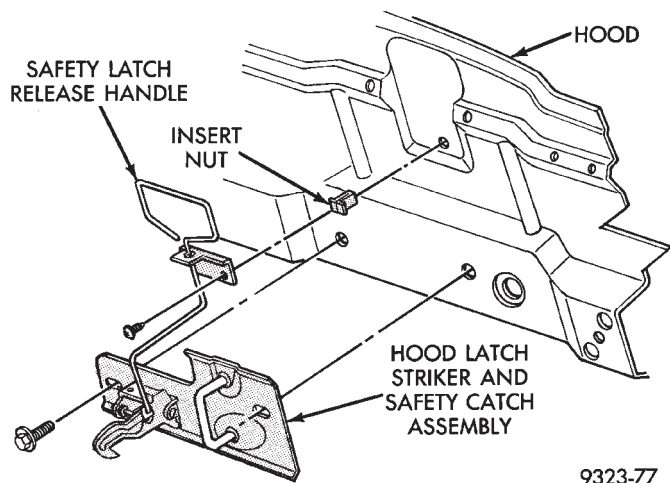


Fig. 2 Hood Safety Catch

INSTALLATION

- (1) Place safety catch in position on vehicle.
- (2) Install bolts to hold hood latch striker and safety catch assembly to inside of hood.
- (3) Install screw to hold safety catch release handle to inside of hood.
- (4) Verify safety catch operation.

HOOD LATCH

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove bolts holding radiator closure panel crossmember to closure panel.
- (3) Separate crossmember from vehicle.
- (4) Disconnect hood release cable from hood latch.
- (5) Remove bolts holding hood latch to crossmember (Fig. 3).
- (6) Separate hood latch from crossmember.

INSTALLATION

- (1) Place hood latch in position on crossmember.
- (2) Install bolts to hold hood latch to crossmember.
- (3) Connect hood release cable to hood latch.
- (4) Place crossmember in position on vehicle.

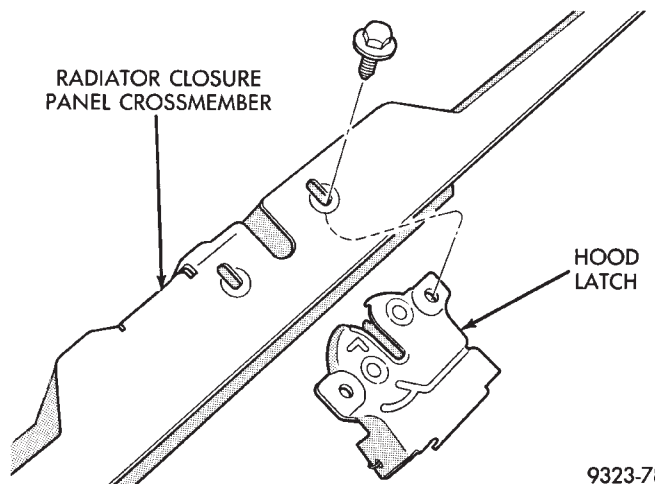


Fig. 3 Hood Latch

- (5) Install bolts to hold radiator closure panel crossmember to closure panel.
- (6) Verify hood latch operation before closing hood.

HOOD RELEASE CABLE

REMOVAL

- (1) Release hood latch and open hood.
- (2) Disconnect hood release cable casing and cable end from hood latch assembly (Fig. 4). Refer to Hood Latch Removal procedure in this section.
- (3) Remove left front door sill trim cover.
- (4) Remove bolts holding hood latch release cable handle to the floor pan kick-up below the door opening (Fig. 5).
- (5) Disengage release cable rubber grommet from engine compartment dash panel behind instrument panel.
- (6) Route cable assembly through engine compartment toward the dash panel. Push cable through access hole in dash panel under the brake master cylinder, into passenger compartment.
- (7) Separate cable from vehicle.

INSTALLATION

- (1) Place cable in position on vehicle.
- (2) Push cable through access hole in dash panel under the brake master cylinder, into engine compartment. Route cable assembly through engine compartment toward the latch.
- (3) Install release cable rubber grommet into access hole in dash panel.
- (4) Install bolts to hold hood latch release cable handle to the floor pan kick-up below the door opening (Fig. 5).
- (5) Install left front door sill trim cover.
- (6) Connect hood release cable casing and cable end to hood latch assembly (Fig. 4). Refer to Hood Latch procedure in this section.

REMOVAL AND INSTALLATION (Continued)

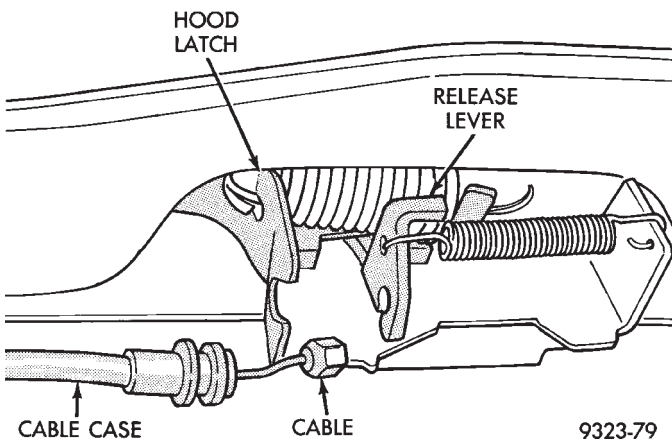


Fig. 4 Hood Release Cable

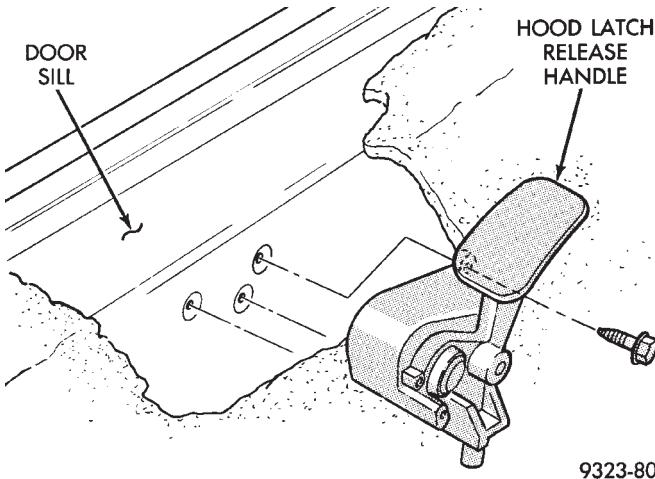


Fig. 5 Hood Release Handle

- (7) Verify hood latch operation before closing hood.

HOOD

REMOVAL

- (1) Raise hood to full up position.
- (2) Disengage under hood lamp wire connector from engine compartment wire harness.
- (3) Mark all bolt and hinge attachment locations with a grease pencil or other suitable device to provide reference marks for installation. When installing hood, align all marks and secure bolts. The hood should be aligned to 4 mm (0.160 in.) gap to the front fenders and flush across the top surfaces along fenders.
- (4) Remove the top bolts holding hood to hinge and loosen the bottom bolts until they can be removed by hand (Fig. 6).
- (5) With assistance from a helper at the opposite side of the vehicle to support the hood, remove bottom bolts holding hood to hinge. Separate the hood from the vehicle.

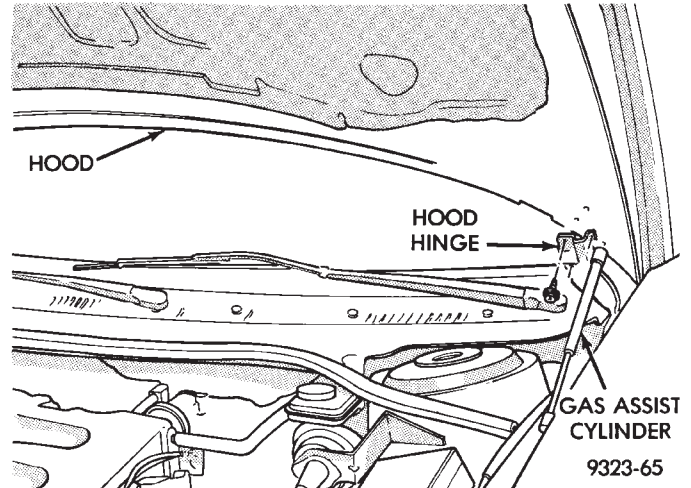


Fig. 6 Hood

INSTALLATION

- (1) Place hood in position on vehicle. With assistance from a helper at the opposite side of the vehicle to support the hood, install bottom bolts to hold hood to hinge finger tight.
- (2) Install top bolts to hold hood to hinge finger tight.
- (3) Position bolts at marks and tighten bolts. The hood should be aligned to 4 mm (0.160 in.) gap to the front fenders and flush across the top surfaces along fenders.
- (4) Engage under hood lamp wire connector to engine compartment wire harness.
- (5) Verify hood operation and alignment.

HOOD HINGE

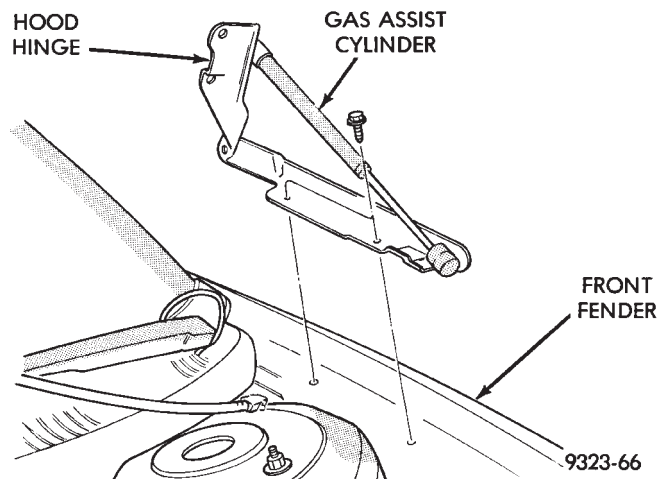
REMOVAL

- (1) Support hood on the side that requires hinge replacement.
- (2) Mark all bolt and hinge attachment locations with a grease pencil or other suitable device to provide reference marks for installation. When installing hood hinge, align all marks and secure bolts. The hood should be aligned to 4 mm (0.160 in.) gap to the front fenders and flush across the top surfaces along fenders. Shims can be added or removed under hood hinge to achieve proper hood height.
- (3) Remove bolts holding hood to hinge.
- (4) Remove bolts holding hood hinge to front fender flange and separate hinge from vehicle (Fig. 7). If necessary, paint new hinge before installation.

INSTALLATION

- (1) If necessary, paint new hinge before installation.
- (2) Place hinge in position on vehicle.
- (3) Install bolts to hold hood hinge to front fender flange.

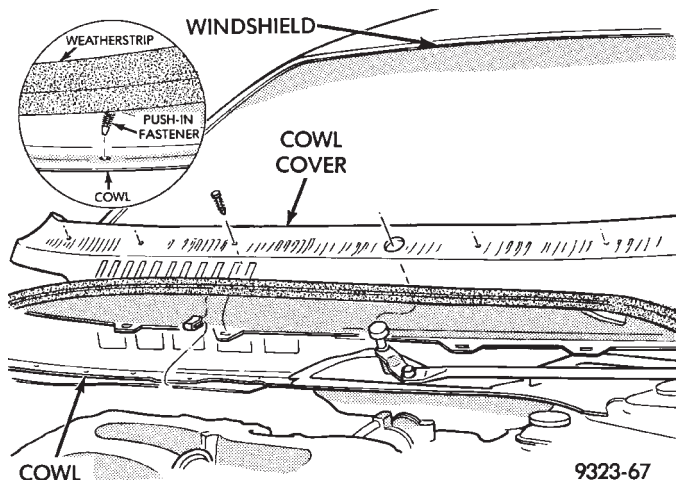
REMOVAL AND INSTALLATION (Continued)

**Fig. 7 Hood Hinge**

- (4) Install bolts to hold hood to hinge.
- (5) Align all marks and secure bolts. The hood should be aligned to 4 mm (0.160 in.) gap to the front fenders and flush across the top surfaces along fenders. Shims can be added or removed under hood hinge to achieve proper hood height.
- (6) Remove support from under hood and verify hood operation.

COWL COVER**REMOVAL**

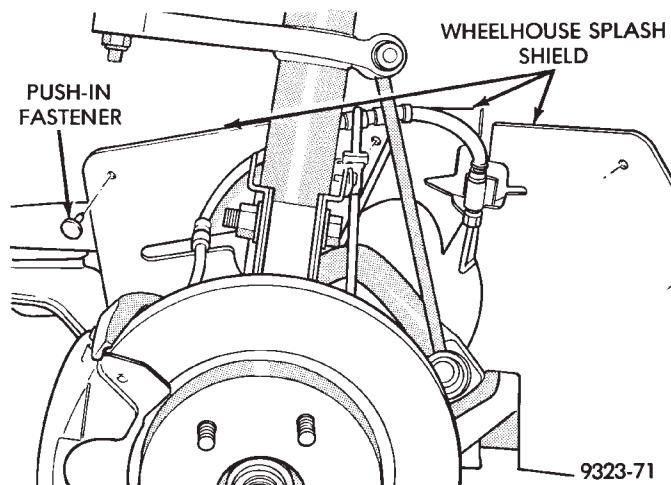
- (1) Release hood latch and open hood.
- (2) Remove wiper arms. Refer to Group 8K, Windshield Wiper and Washer Systems.
- (3) Disengage push-in fasteners holding cowl to hood weatherstrip to cowl opening edge (Fig. 8).
- (4) Disengage clips holding front edge of cowl cover to cowl opening edge.
- (5) Remove retainers holding cowl cover to lower windshield fence tabs.
- (6) Separate cowl cover from vehicle.

**Fig. 8 Cowl Cover****INSTALLATION**

- (1) Place cowl cover in position on vehicle.
- (2) Install retainers to hold cowl cover to lower windshield fence tabs.
- (3) Engage clips to hold front edge of cowl cover to cowl opening edge.
- (4) Engage push-in fasteners to hold weatherstrip to cowl opening edge.
- (5) Install wiper arms. Refer to Group 8K, Windshield Wiper and Washer Systems.

WHEELHOUSE SPLASH SHIELD**REMOVAL**

- (1) Hoist and support vehicle on safety stands. Refer to Group 0, Lubrication and Maintenance, for proper procedures.
- (2) Remove front wheel.
- (3) Remove push-in fasteners holding splash shield to frame rail (Fig. 9).
- (4) Separate splash shield from vehicle.

**Fig. 9 Wheelhouse Splash Shield****INSTALLATION**

- (1) Place splash shield in position on vehicle.
- (2) Install push-in fasteners to hold splash shield to frame rail.
- (3) Install front wheel.
- (4) Lower vehicle.

FRONT FENDER SPLASH SHIELD**REMOVAL**

- (1) Hoist and support vehicle on safety stands. Refer to Group 0, Lubrication and Maintenance, for proper procedures.
- (2) Remove front wheel.
- (3) Remove screws holding splash shield to inner wheelhouse.
- (4) Separate splash shield from behind fender.

REMOVAL AND INSTALLATION (Continued)

(5) Disengage clips holding wire harness to splash shield (Fig. 10).

(6) Separate splash shield from vehicle.

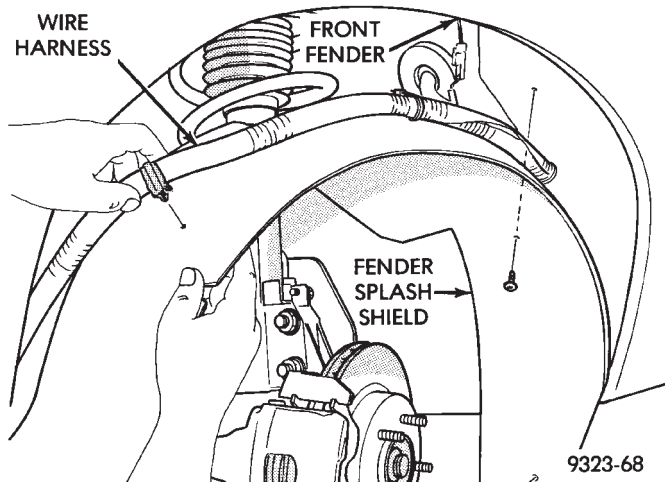


Fig. 10 Fender Splash Shield

INSTALLATION

(1) Place splash shield in position under wire harness.

(2) Engage clips to hold wire harness to splash shield.

(3) Place splash shield into position behind fender.

(4) Install screws to hold splash shield to inner wheelhouse.

(5) Install front wheel.

(6) Lower vehicle.

FENDER

REMOVAL

(1) Remove headlamp assembly. Refer to Group 8L, Lamps, for proper procedures.

(2) Remove front bumper fascia as necessary to clear removal path of front fender. Refer to Group 13, Bumpers and Frame, for proper procedures.

(3) Remove bolt holding fender to rocker panel.

(4) From inside door opening, remove bolts holding fender to hinge pillar brackets.

(5) Remove bolts holding fender to radiator closure panel.

(6) From inside engine compartment, remove bolts holding fender to inner wheelhouse panel.

(7) Separate fender from vehicle (Fig. 11).

INSTALLATION

(1) Place fender in position on vehicle.

(2) From inside engine compartment, install bolts to hold fender to inner wheelhouse panel.

(3) Install bolts to hold fender to radiator closure panel.

(4) From inside door opening, install bolts to hold fender to hinge pillar brackets.

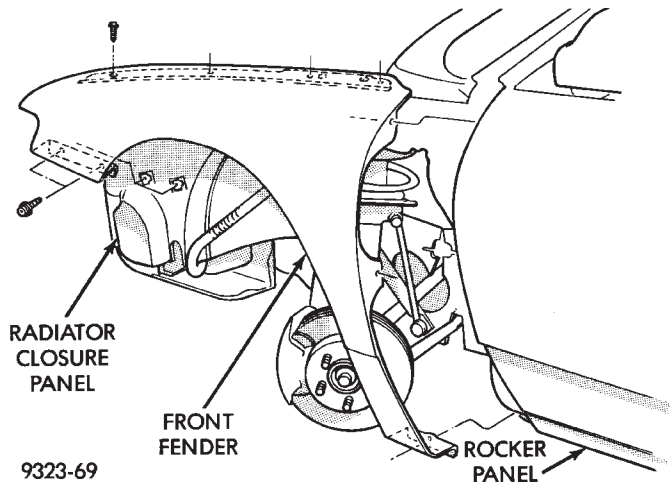


Fig. 11 Fender

(5) Install bolt to hold fender to rocker panel.

(6) Install front bumper fascia.

(7) Install headlamp assembly.

DOOR COMPONENTS

The front and rear door on all LH models require the same basic service procedures regardless of door trim configuration. The art used in this section is typical and features only one of the current production models.

FRONT DOOR TRIM

REMOVAL

CAUTION: Do not pry on door trim panel, damage to trim panel will result.

(1) Using a door handle removal tool, disengage clip holding window crank to regulator and separate crank from door, if equipped (Fig. 12).

(2) Disengage clips holding front of door speaker grille to trim panel and separate grille from trim panel (Fig. 12).

(3) Remove screws holding trim panel to door from inside speaker opening.

(4) Remove screw holding pull cup to trim panel and separate pull cup from door. When installing pull cup, index arrow outward and snap pull cup into trim panel.

(5) Remove screw holding trim panel to door from behind inside latch handle.

(6) If wire harness must remain with door, disengage clips holding power window switch panel to trim panel and separate switch panel from door. Disconnect wire connector from switch, if equipped.

(7) If wire harness must remain with door, disengage clips holding power mirror switch to trim panel and pull switch rearward out of trim panel. Disconnect wire connector from mirror switch, if equipped.

REMOVAL AND INSTALLATION (Continued)

(8) If wire harness is to remain with door trim panel, disconnect door jamb connector. Remove fasteners holding wire harness close-out cover to door end frame. Disengage push-in retainers holding door opening weatherstrip to door end frame. Pull harness from under weatherstrip.

(9) Lift trim panel upward to disengage channel retainer at top of trim and tilt trim panel outward.

(10) Disengage wire connector from power door lock switch, if equipped.

(11) Disengage wire connector from speaker, if equipped.

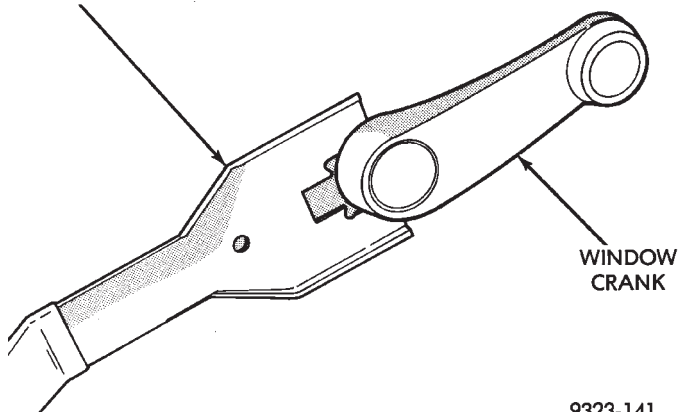
(12) Disengage clip holding linkage rod to inside latch handle and separate rod from handle (Fig. 14).

(13) Lift trim panel upward to disengage hook retainers at bottom of trim panel and separate trim panel from door (Fig. 15).

(14) Disengage wire connector from power door lock motor located on door latch.

(15) From behind door silencer pad, disengage push-in retainers holding wire harness to trim panel.

(16) Remove wire harness from behind silencer pad and separate trim panel from door.

DOOR HANDLE
REMOVAL TOOL**Fig. 12 Window Crank****INSTALLATION**

(1) Install wire harness behind silencer pad and place trim panel from door.

(2) Behind door silencer pad, engage push-in retainers to hold wire harness to trim panel.

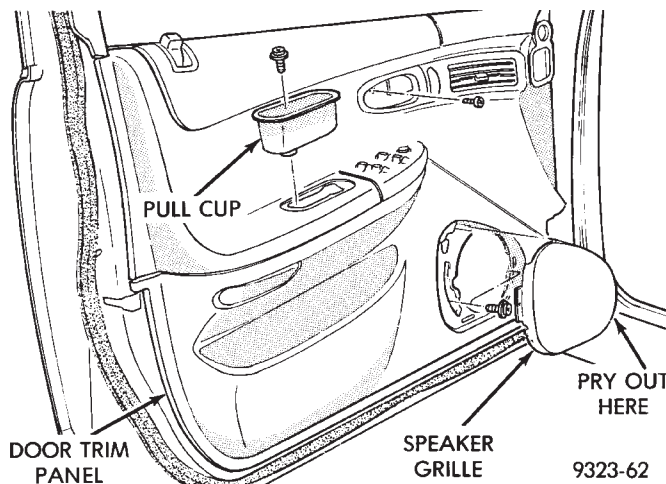
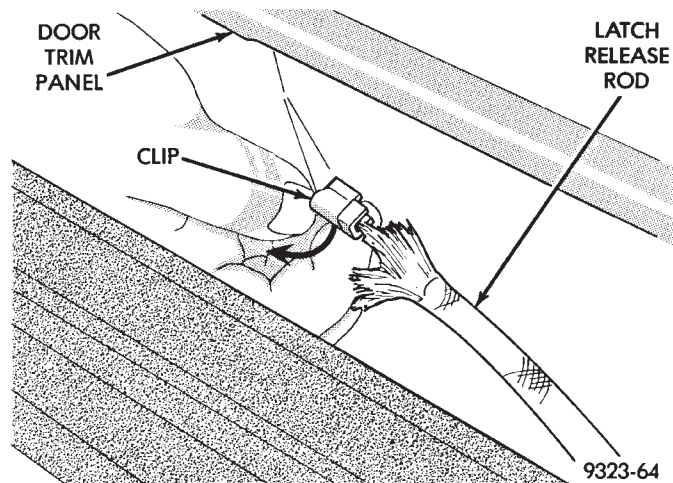
(3) Engage wire connector to power door lock motor.

(4) Place trim panel in position on door and engage hook retainers at bottom of trim panel into holes in door (Fig. 15).

(5) Insert latch rod into clip on latch handle. Engage clip to hold rod to handle (Fig. 14).

(6) Engage wire connector to speaker, if equipped.

(7) Engage wire connector to power door lock switch, if equipped.

**Fig. 13 Front Door Trim Panel—Typical****Fig. 14 Door Latch Handle Rod**

(8) Engage trim panel into channel retainer at top door.

(9) If wire harness was removed with door trim panel, route harness under weatherstrip. Engage door jamb connector. Install fasteners to hold wire harness close-out cover to door end frame. Engage push-in retainers to hold door opening weatherstrip to door end frame.

(10) Install screw to hold trim panel to door behind inside latch handle (Fig. 13).

(11) Place pull cup in position into arm rest on trim panel.

(12) Install screw to hold pull cup to trim panel.

(13) Install screws to hold trim panel to door inside speaker opening.

(14) Place speaker grille in position on trim panel. Engage clips to hold door speaker grille to trim panel.

(15) Install window crank, if equipped.

REMOVAL AND INSTALLATION (Continued)

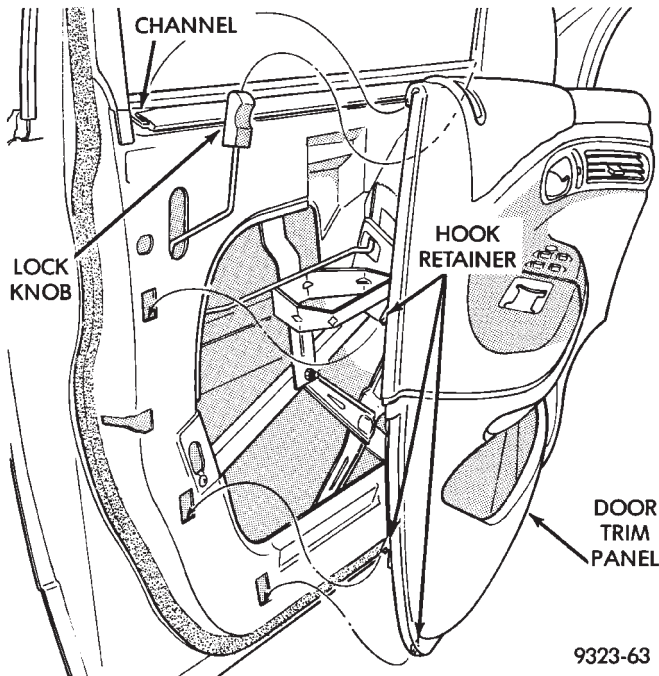


Fig. 15 Front Door Panel Hooks and Lock Button

FRONT DOOR GLASS FRAME TRIM

REMOVAL

- (1) Remove door trim panel.
- (2) Remove screw holding door glass frame trim to door pane (Fig. 16).
- (3) Separate trim from door glass frame.

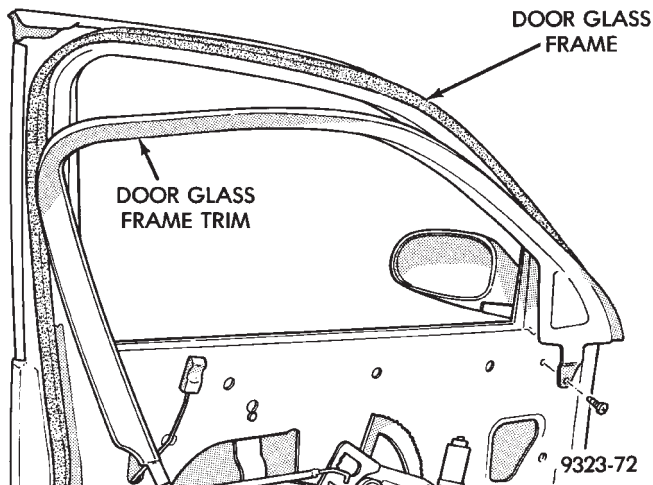


Fig. 16 Front Door Glass Frame Trim—Typical

INSTALLATION

- (1) Place trim in position on door glass frame.
- (2) Install screw to hold door glass frame trim to door panel.
- (3) Install door trim panel.

FRONT DOOR INNER BELT WEATHERSTRIP

REMOVAL

- (1) Remove door trim panel.
- (2) Lift inner belt weatherstrip upward to disengage channel from top of inner door panel.
- (3) Separate belt weatherstrip from door (Fig. 17).

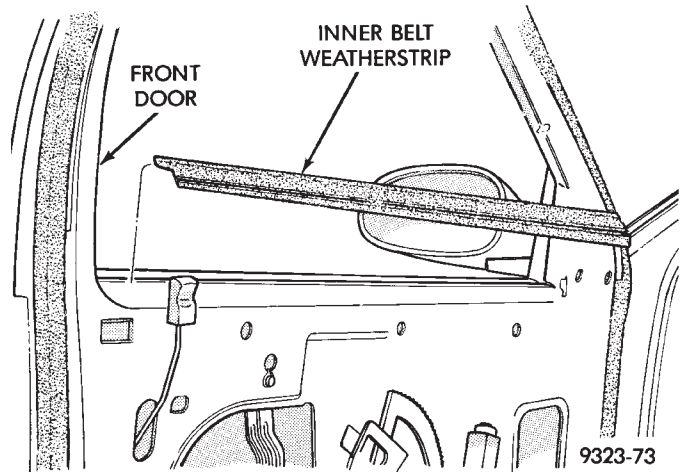


Fig. 17 Front Door Inner Belt Weatherstrip

INSTALLATION

- (1) Place belt weatherstrip in position on door.
- (2) Push inner belt weatherstrip downward to engage channel to top of inner door panel.
- (3) Install door trim panel.

FRONT DOOR WINDOW FRAME APPLIQUE

REMOVAL

- (1) Remove door glass run weatherstrip as necessary to gain access to applique fasteners.
- (2) Remove screws holding applique to window frame (Fig. 18).
- (3) Separate applique from door.

INSTALLATION

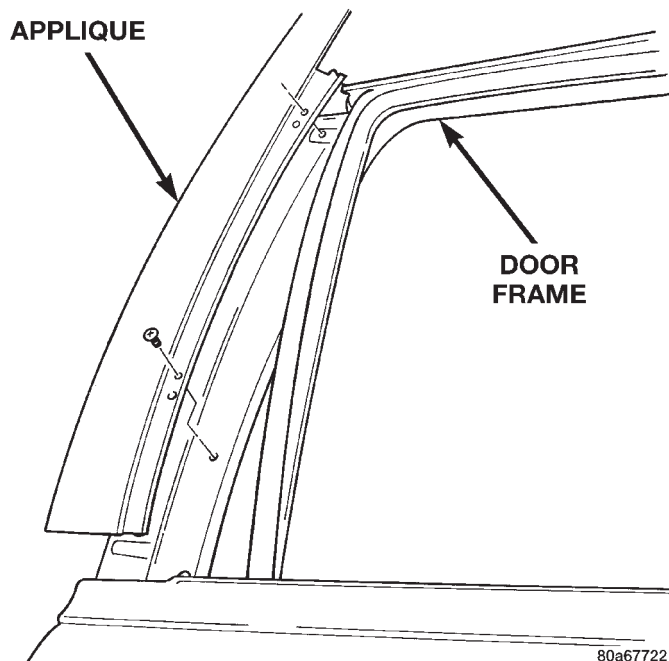
- (1) Place applique in position on door.
- (2) Install screws to hold applique to window frame.
- (3) Install door glass run weatherstrip.

FRONT DOOR LATCH

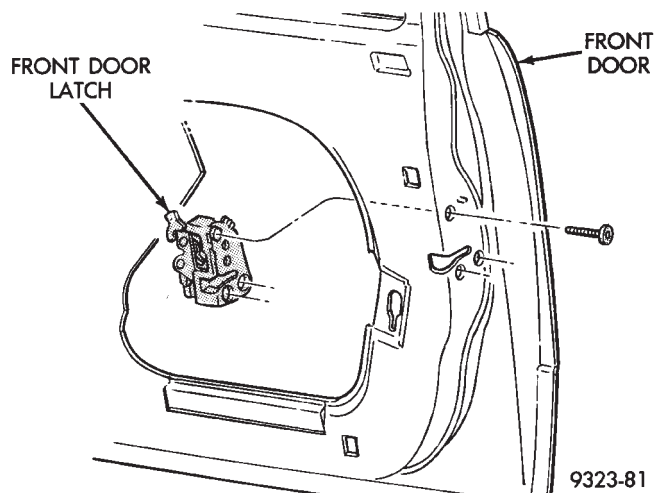
REMOVAL

- (1) Close door glass.
- (2) Remove door trim panel.
- (3) Disconnect lock button link from door latch.
- (4) Disconnect lock cylinder link from door latch.
- (5) Disconnect outside door handle link from door latch.
- (6) Remove screws holding door latch to door end frame (Fig. 19).

REMOVAL AND INSTALLATION (Continued)

**Fig. 18 Front Door Window Frame Applique**

(7) Separate latch from door.

**Fig. 19 Front Door Latch****INSTALLATION**

- (1) Place latch in position in door.
- (2) Install screws to hold door latch to door end frame.
- (3) Connect outside door handle link to door latch.
- (4) Connect lock cylinder link to door latch.
- (5) Connect lock button link to door latch.
- (6) Verify latch operation.
- (7) Install door trim panel.

OUTSIDE DOOR HANDLE**REMOVAL**

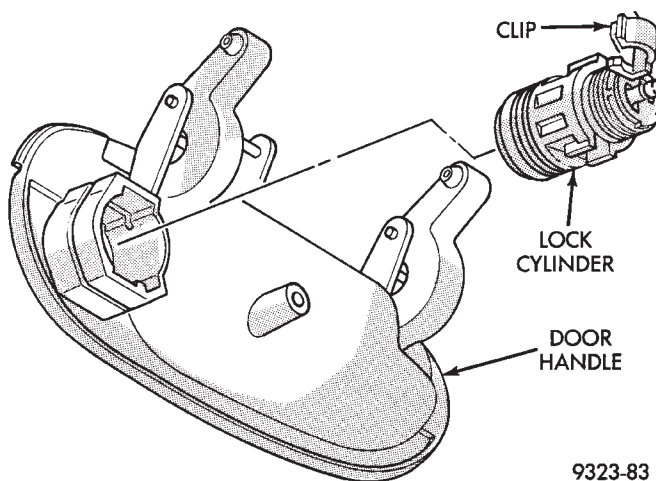
- (1) Close door glass.
- (2) Remove door trim panel.
- (3) Disengage clips holding latch release link and lock link to door latch.
- (4) Separate links from latch.
- (5) Remove screws holding retainer to back of door handle.
- (6) Separate retainer from door handle.
- (7) Separate door handle from door.

INSTALLATION

- (1) Place door handle in position on door.
- (2) Place retainer in position on door handle stud.
- (3) Install screws to hold retainer to back of door handle.
- (4) Insert links into clips on latch.
- (5) Engage clips to hold latch release link and lock link to door latch.
- (6) Verify door latch handle operation.
- (7) Install door trim panel.

DOOR LOCK CYLINDER**REMOVAL**

- (1) Close door glass.
- (2) Remove door trim panel.
- (3) Disengage clip holding lock link to lock cylinder.
- (4) Separate link from lock cylinder.
- (5) Disengage clip holding lock cylinder to door handle.
- (6) Pull lock cylinder from door handle (Fig. 20).

**Fig. 20 Door Lock Cylinder****INSTALLATION**

- (1) Push lock cylinder into socket on door handle.
- (2) Insert link into clip on lock cylinder.
- (3) Engage clip to hold lock link to lock cylinder.

REMOVAL AND INSTALLATION (Continued)

- (4) Verify lock operation.
- (5) Install door trim panel.

FRONT DOOR CHECK STRAP

REMOVAL

- (1) Close door glass.
- (2) Remove door trim panel.
- (3) Remove bolts holding check strap to door end frame.
- (4) Remove retainer holding check strap to door hinge.
- (5) Disengage check strap from pin on upper door hinge.
- (6) Separate check strap from vehicle (Fig. 21).

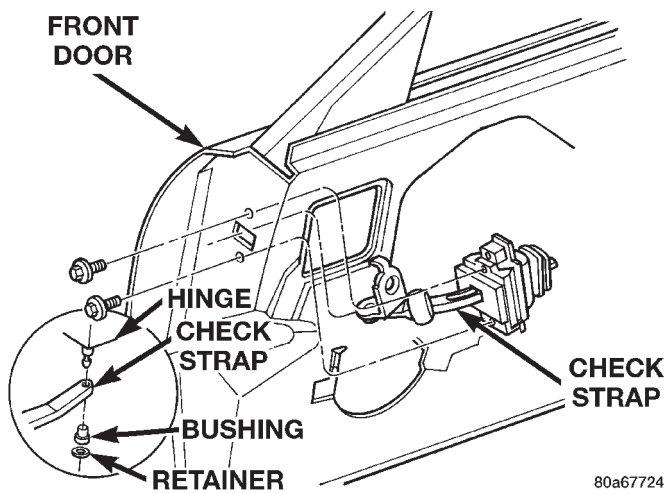


Fig. 21 Front Door Check Strap

INSTALLATION

- (1) Place check strap in position on vehicle.
- (2) Engage check strap onto pin on upper door hinge.
- (3) Install bushing and retainer
- (4) Install bolts to hold check strap to door end frame.
- (5) Install door trim panel.

FRONT DOOR OUTER BELT MOLDING

REMOVAL

- (1) Remove side view mirror.
- (2) Using a rubber mallet and block of wood, tap upward at each clip holding belt molding to door (Fig. 22).
- (3) Separate belt molding from door.

INSTALLATION

- (1) Place molding in position on door.
- (2) Push downward at each clip to hold molding to top of door.
- (3)
- (4) Install side view mirror.

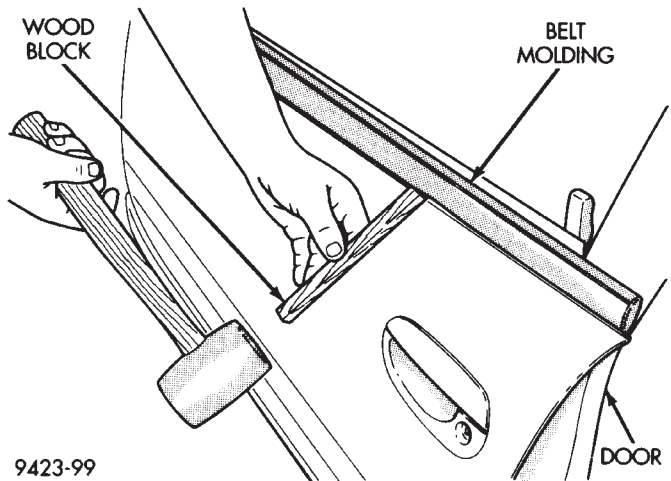


Fig. 22 Front Door Outer Belt Molding

FRONT DOOR

REMOVAL

- (1) Open front door.
- (2) Disengage clips holding wire harness connector and boot to hinge pillar.
- (3) Separate connector from hinge pillar.
- (4) Disengage clip holding wire connector together on hinge pillar side of the connector.
- (5) Separate door harness from instrument panel harness.
- (6) Support door on suitable lifting device.
- (7) Remove bolts holding lower hinge to door end frame (Fig. 23).
- (8) Steady door on lifting device and remove bolts holding upper hinge to door end frame.
- (9) Disengage door check stop from pin on upper door hinge.
- (10) Separate door from vehicle.

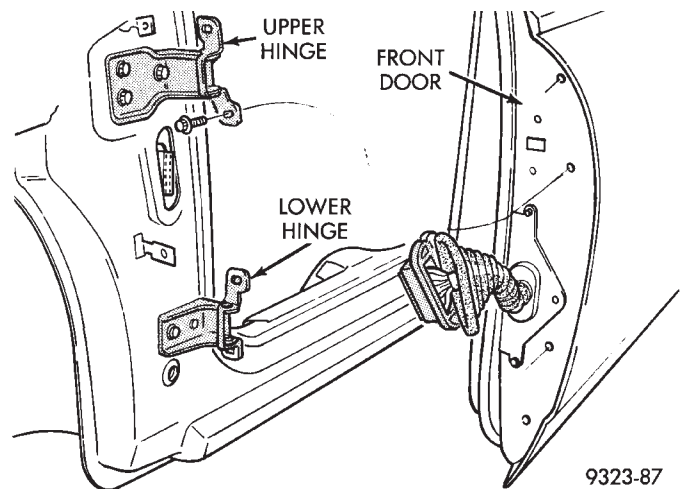


Fig. 23 Front Door and Hinge

INSTALLATION

- (1) Place door in position on vehicle.

REMOVAL AND INSTALLATION (Continued)

- (2) Engage door check stop onto pin on upper door hinge.
- (3) Steady door on lifting device and install bolts to hold upper hinge to door end frame.
- (4) Install bolts to hold lower hinge to door end frame.
- (5) Verify door alignment and operation.
- (6) Connect door harness to instrument panel harness.
- (7) Align door to achieve equal spacing to surrounding body panels. Panels should be flush across all gaps.

FRONT DOOR HINGE

REMOVAL

- (1) Remove front door.
- (2) Mark location of hinge on hinge pillar.
- (3) Remove bolts holding upper hinge to hinge pillar (Fig. 24).
- (4) On lower hinge, remove cowl side trim panel and remove nut holding hinge to back of hinge pillar (Fig. 25).
- (5) Separate hinge from vehicle.

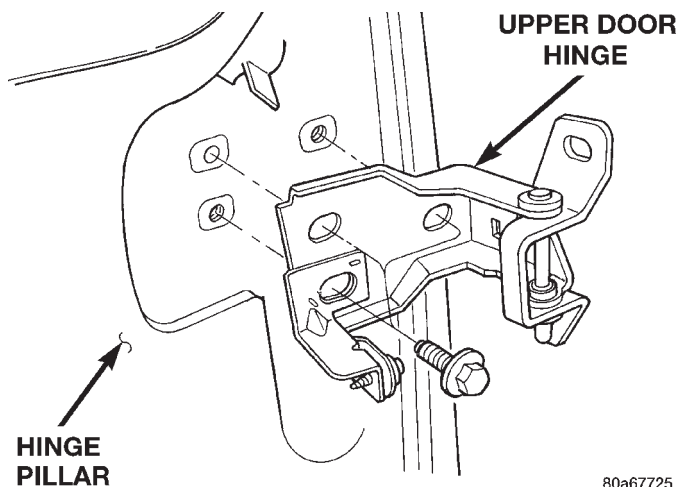


Fig. 24 Front Door Upper Hinge

INSTALLATION

- (1) Place hinge in position on vehicle.
- (2) On lower hinge, install nut and bolt to hold hinge to hinge pillar and install cowl side trim panel.
- (3) Install bolts to hold upper hinge to hinge pillar.
- (4) Install front door.
- (5) Verify door alignment and operation, adjust as necessary.

FRONT DOOR LATCH STRIKER

REMOVAL

- (1) Open front door.
- (2) Mark location of door latch striker on B-pillar to assist installation alignment.

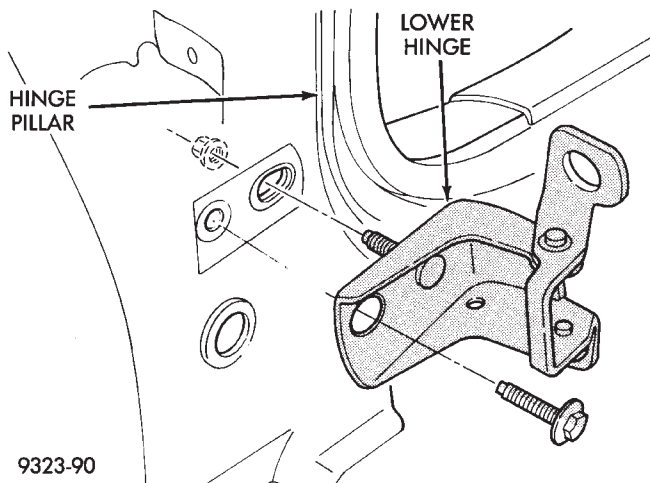


Fig. 25 Front Door Lower Hinge

- (3) Remove bolts holding striker to B-pillar (Fig. 26).
- (4) Separate door latch striker from vehicle.

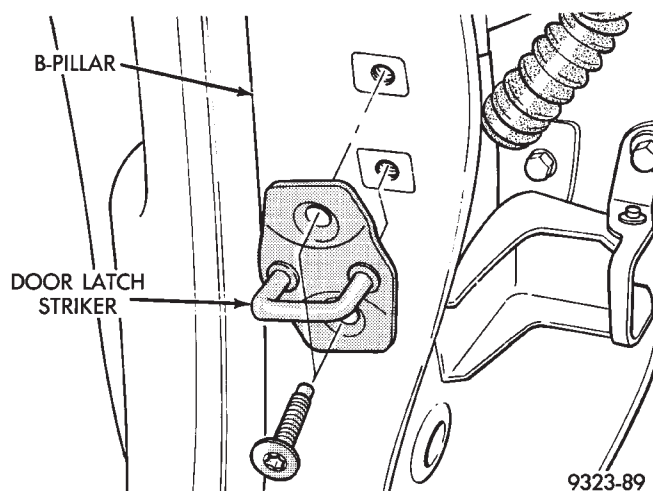


Fig. 26 Front Door Latch Striker

INSTALLATION

- (1) Place door latch striker in position on vehicle.
- (2) Install bolts to hold striker to B-pillar.
- (3) Verify alignment and operation of door, adjust as necessary.

FRONT DOOR PRIMARY WEATHERSTRIP

REMOVAL

- (1) Open front door.
- (2) Pull primary weatherstrip from channel around upper window frame.
- (3) Using a fork-type prying tool, disengage push-in fasteners holding weatherstrip to lower door end frames and bottom panel (Fig. 27).
- (4) Separate primary weatherstrip from door.

REMOVAL AND INSTALLATION (Continued)

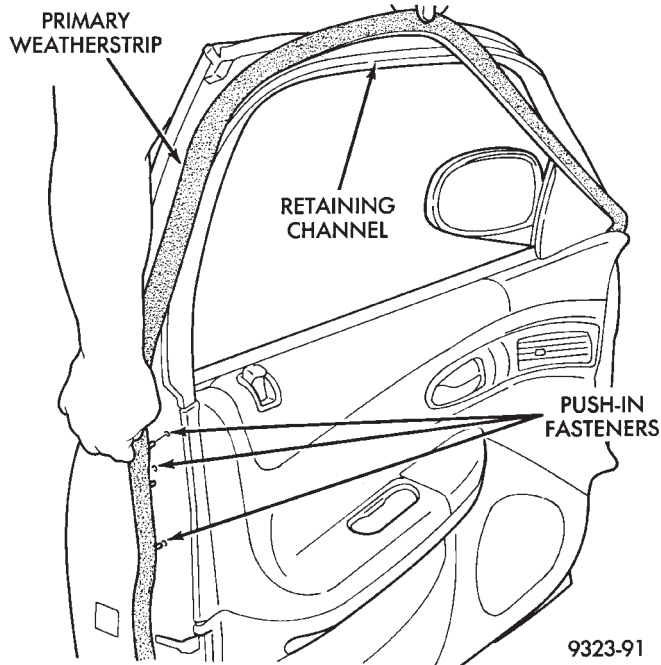


Fig. 27 Front Door Primary Weatherstrip

INSTALLATION

- (1) Place primary weatherstrip in position on door.
- (2) Engage push-in fasteners to hold weatherstrip to lower door end frames and bottom panel.
- (3) Insert primary weatherstrip into channel around upper window frame.
- (4) Verify door alignment and seal

FRONT DOOR SECONDARY WEATHERSTRIP

REMOVAL

- (1) Open front door.
- (2) Loosen door opening sill plate.
- (3) Pull secondary weatherstrip from fence around door opening (Fig. 28).

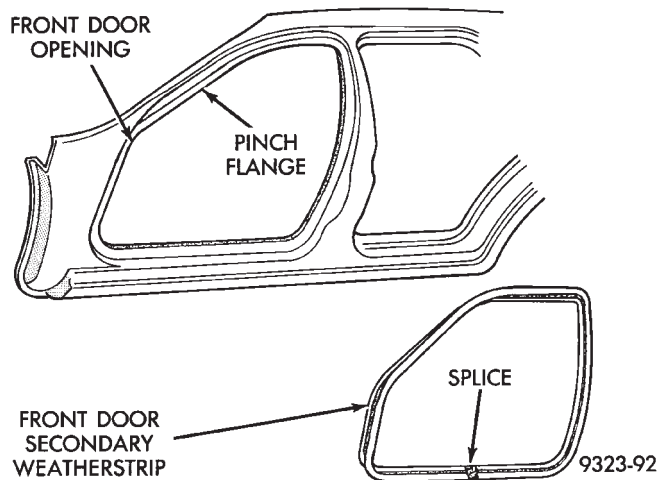


Fig. 28 Front Door Secondary Weatherstrip

INSTALLATION

- (1) Position splice in weatherstrip at center of door opening sill.
- (2) Push secondary weatherstrip onto fence around door opening.
- (3) Tighten door opening sill plate.
- (4) Verify secondary weatherstrip sealing.

SIDE VIEW MIRROR

REMOVAL

- (1) Remove front door trim panel.
- (2) Remove window frame trim.
- (3) Disconnect power mirror motor wire connector.
- (4) Remove nuts holding side view mirror to door (Fig. 29).
- (5) Separate mirror from door.
- (6) Disengage wire harness plug from door.
- (7) Feed wire harness through door to outside of vehicle.

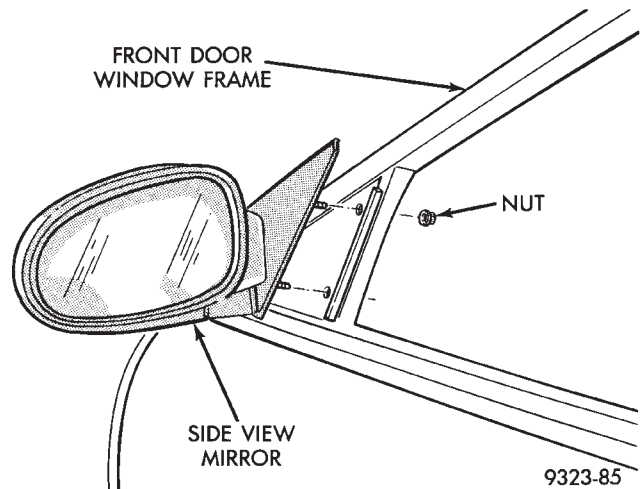


Fig. 29 Side View Mirror

INSTALLATION

- (1) Route wire harness through door to inside of vehicle.
- (2) Engage wire harness plug to door.
- (3) Place mirror in position on door.
- (4) Install nuts to hold side view mirror to door.
- (5) Engage power mirror motor wire connector.
- (6) Install window frame trim.
- (7) Verify mirror operation.
- (8) Install door trim panel.

FRONT DOOR GLASS

REMOVAL

- (1) Remove door trim panel and upper trim retainer channel.
- (2) Connect power window switch or install crank and lower window to 50 mm (2 in.) from bottom of travel.

REMOVAL AND INSTALLATION (Continued)

(3) Loosen screws holding regulator roller channel to glass.

(4) Slide roller channel rearward to allow screw heads to pass through key hole slots in channel (Fig. 30).

(5) Separate glass from roller channel.

(6) Raise glass upward and out of the opening at top of door.

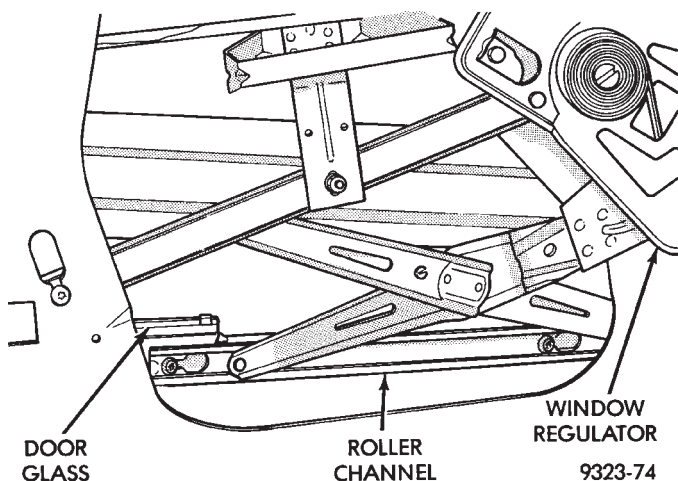


Fig. 30 Front Door Glass

INSTALLATION

- (1) Lower glass into opening at top of door.
- (2) Place glass in position against roller channel.
- (3) Insert screw heads into key hole slots in roller channel and slide channel forward to locked position.
- (4) Tighten screws to hold regulator roller channel to glass.
- (5) Install upper trim retainer channel and install door trim panel.

FRONT DOOR GLASS REGULATOR

Power and manual door glass regulators are serviced using the same procedures. For power window motor service procedures refer to Group 8S, Power Windows.

REMOVAL

- (1) Remove door trim panel.
- (2) Separate glass from regulator roller channel.
- (3) Disengage power window motor wire connector, if equipped.
- (4) Loosen screw holding regulator scissor channel to door panel.
- (5) Loosen bolt holding regulator support brace to door panel.
- (6) Separate screw and bolt heads from keyhole slots in door panel.
- (7) Loosen bolts holding regulator to door panel.
- (8) Separate regulator from door panel.

(9) Slide regulator rearward and rotate forward end of roller channel through access hole in door panel (Fig. 31).

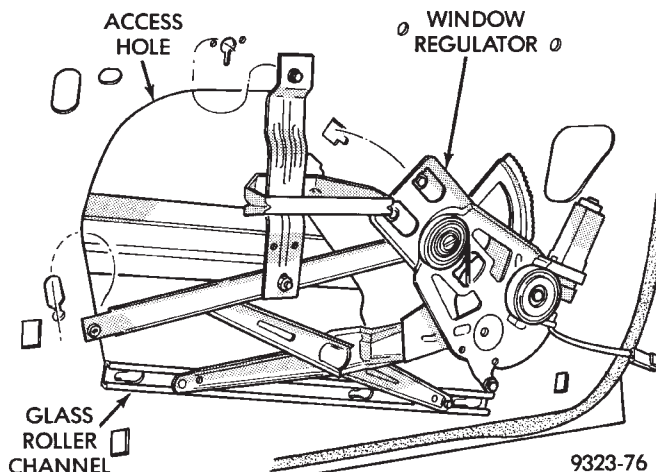


Fig. 31 Window Regulator

INSTALLATION

- (1) Insert roller channel through access hole in door panel.
- (2) Insert bolt heads on regulator through key hold slots in door panel.
- (3) Tighten bolts to hold regulator to door panel.
- (4) Insert bolt heads on support brace and scissor channel into key hole slot on door panel.
- (5) Tighten bolt to hold regulator support brace to door panel.
- (6) Tighten screw to hold regulator scissor channel to door panel.
- (7) Engage power window motor wire connector, if equipped.
- (8) Install door glass.
- (9) Align glass and verify operation.
- (10) Install door trim panel.

FRONT DOOR GLASS RUN WEATHERSTRIP

REMOVAL

- (1) Remove door glass.
- (2) Remove upper door trim retainer channel.
- (3) Remove side view mirror.
- (4) Pull weatherstrip from lower rear channel above door latch.
- (5) Remove screws holding applique to window frame.
- (6) Separate applique from door.
- (7) Disengage push-in fastener holding run weatherstrip to window frame.
- (8) Pull run weatherstrip from window frame channel (Fig. 32).

REMOVAL AND INSTALLATION (Continued)

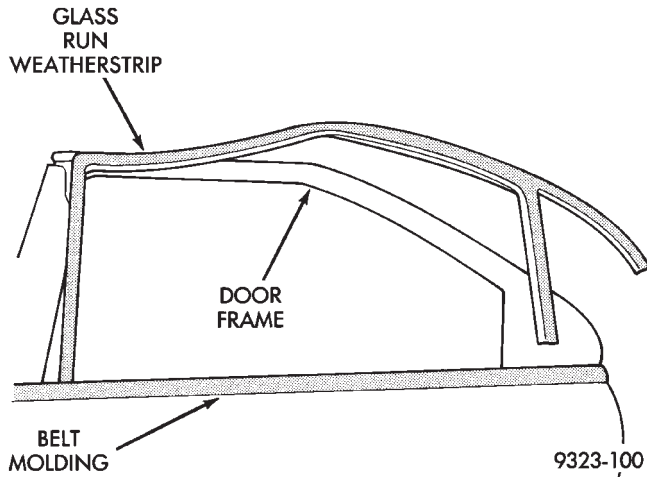


Fig. 32 Door Glass Run Weatherstrip

INSTALLATION

- (1) Push run weatherstrip into window frame channel.
- (2) Engage push-in fastener to hold run weatherstrip to window frame.
- (3) Place applique in position on door.
- (4) Install screws to hold applique to window frame.
- (5) Push weatherstrip into lower rear channel above door latch.
- (6) Install side view mirror.
- (7) Install upper door trim retainer channel.
- (8) Install door glass.

REAR DOOR TRIM PANEL

REMOVAL

CAUTION: Do not pry on door trim panel, damage to trim panel will result.

- (1) Using a door handle removal tool, disengage clip holding window crank to regulator and separate crank from door, if equipped (Fig. 33).
- (2) If wire harness must remain with door, disengage clips holding power window switch panel to trim panel and separate switch panel from door. Disconnect wire connector from switch, if equipped.
- (3) If wire harness is to remain with door trim panel, disconnect door jamb connector. Remove fasteners holding wire harness close-out cover to door end frame. Disengage push-in retainers holding door opening weatherstrip to door end frame. Pull harness from under weatherstrip.
- (4) Remove screw holding trim panel to door from behind inside latch handle (Fig. 34).
- (5) Remove screw holding pull cup to door panel and separate pull cup from door. When installing pull

cup, index arrow outward and snap pull cup into trim panel.

(6) Lift trim panel upward to disengage channel retainer at top of trim and tilt trim panel outward.

(7) Disengage clip holding linkage rod to inside latch handle and separate rod from handle (Fig. 35).

(8) Separate trim panel from door.

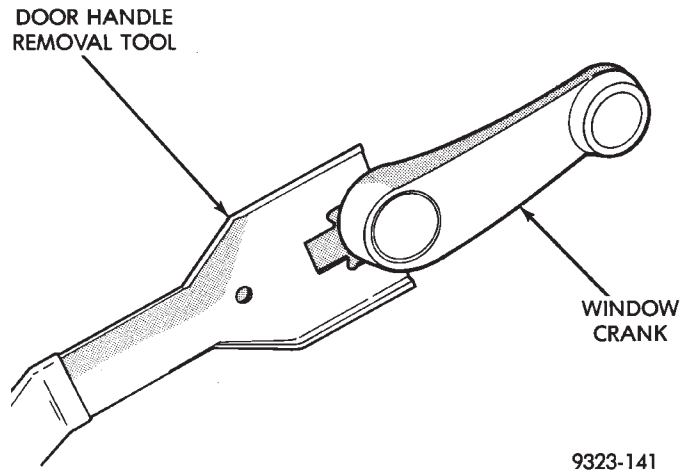


Fig. 33 Window Crank

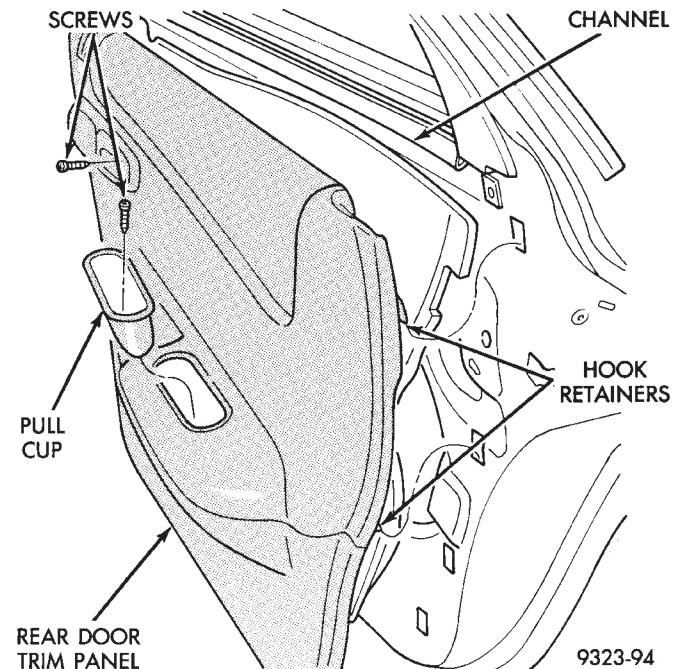
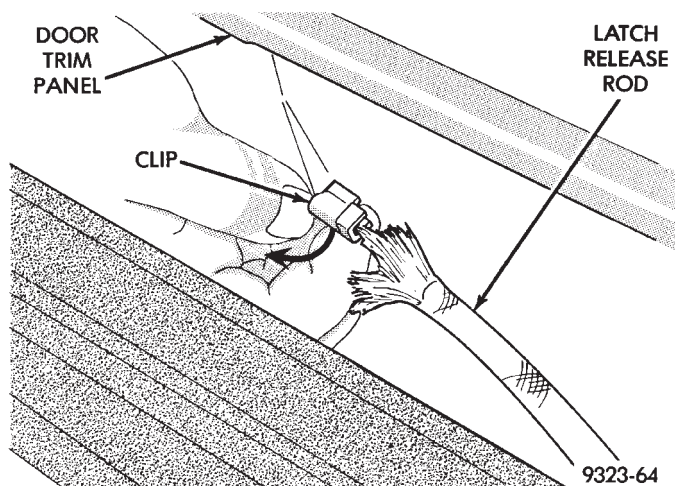


Fig. 34 Rear Door Trim Panel—Typical

INSTALLATION

- (1) Place trim panel in position on door and engage hook retainers at bottom of panel.
- (2) Insert linkage rod into clip on inside latch handle and engage clip to hold linkage rod to handle.
- (3) Engage channel retainer at top of trim.
- (4) Insert pull cup into door arm rest and install screw to hold pull cup to door panel.

REMOVAL AND INSTALLATION (Continued)

**Fig. 35 Door Latch Handle Rod**

(5) Install screw to hold trim panel to door behind inside latch handle.

(6) If wire harness was removed with door trim panel, Route harness under weatherstrip. Engage door jamb connector. Install fasteners to hold wire harness close-out cover to door end frame. Engage push-in retainers to hold door opening weatherstrip to door end frame.

(7) If wire harness was not removed with trim, Engage wire connector to power window switch. Engage clips To hold power window switch panel to trim panel and snap switch into door panel.

(8) Install window crank.

REAR DOOR FORWARD APPLIQUE**REMOVAL**

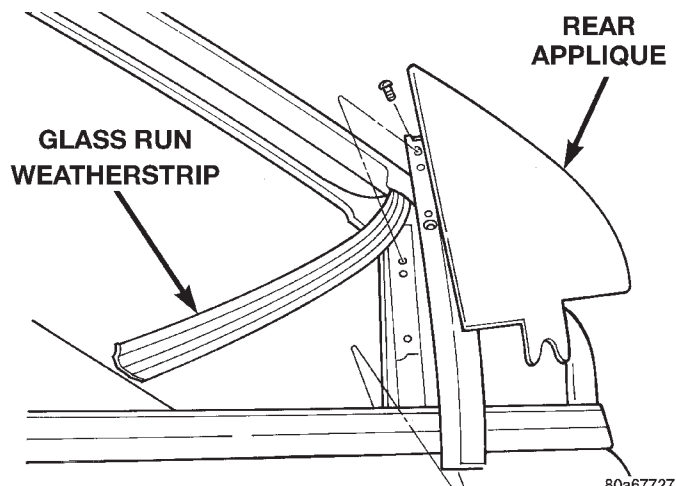
- (1) Remove door trim panel.
- (2) Lower door glass.
- (3) Pull weatherstrip from rear glass run.
- (4) Remove door belt weatherstrip as necessary to gain access to applique fasteners.
- (5) Remove screws holding applique to door from inside glass run channel (Fig. 36).
- (6) Separate applique from door.

INSTALLATION

- (1) Place applique in position on door.
- (2) Install screws to hold applique to door inside glass run channel.
- (3) Install door belt weatherstrip.
- (4) Insert weatherstrip into rear glass run.
- (5) Install door trim panel.

REAR DOOR REARWARD APPLIQUE**REMOVAL**

- (1) Remove door trim panel.
- (2) Lower door glass.
- (3) Pull weatherstrip from rear glass run.

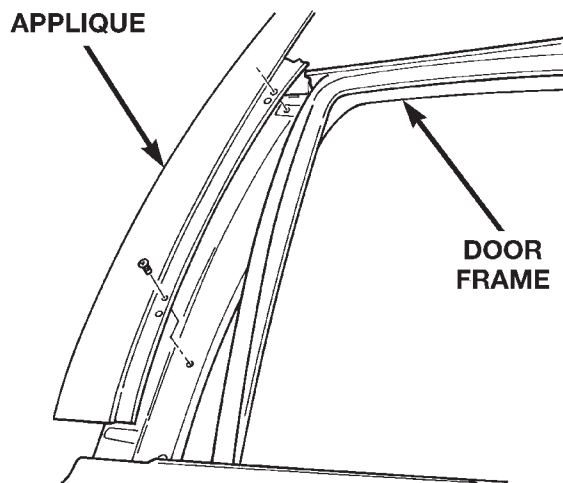
**Fig. 36 Rear Door Forward Applique**

(4) Remove door belt weatherstrip as necessary to gain access to applique fasteners.

(5) Remove screw holding bottom of applique to door through access hole in door panel.

(6) Remove screws holding applique to door from inside glass run channel (Fig. 37).

(7) Separate applique from door.

**Fig. 37 Rear Door Rearward Applique****INSTALLATION**

- (1) Place applique in position on door.
- (2) Install screws to hold applique to door inside glass run channel.
- (3) Install screw to hold bottom of applique to door through access hole in door panel.
- (4) Install door belt weatherstrip.
- (5) Insert weatherstrip into rear glass run.
- (6) Install door trim panel.

REAR DOOR GLASS FRAME TRIM**REMOVAL**

- (1) Remove door trim panel.

REMOVAL AND INSTALLATION (Continued)

- (2) Remove screws holding door glass frame trim to door panel (Fig. 38).
- (3) Separate trim from door glass frame.

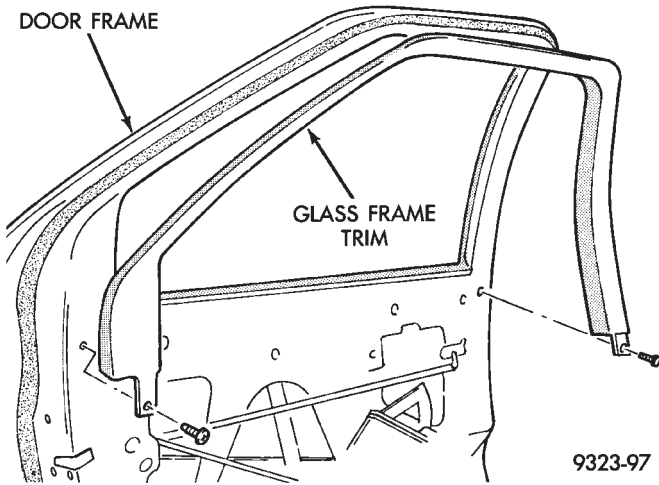


Fig. 38 Rear Door Glass Frame Trim

INSTALLATION

- (1) Place trim in position on door glass frame.
- (2) Install screws to hold door glass frame trim to door panel.
- (3) Install door trim panel.

REAR DOOR INNER BELT WEATHERSTRIP

REMOVAL

- (1) Remove trim panel from rear door.
- (2) Lift inner belt weatherstrip upward to disengage channel from top of inner door panel.
- (3) Separate belt weatherstrip from door (Fig. 39).

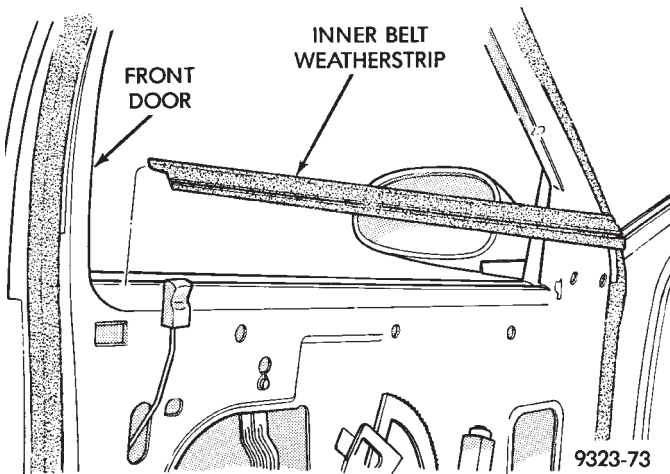


Fig. 39 Door Inner Belt Weatherstrip—Typical

INSTALLATION

- (1) Place belt weatherstrip in position on door.
- (2) Push inner belt weatherstrip downward to engage channel on top of inner door panel.
- (3) Install door trim panel.

REAR DOOR GLASS

REMOVAL

- (1) Remove door trim panel and upper trim retainer channel.
- (2) Remove window frame applique.
- (3) Raise door glass to gain access to roller channel to glass fasteners through holes in inner door panel.
- (4) Loosen screws holding regulator roller channel to glass (Fig. 40).
- (5) Slide roller channel rearward to allow screw heads to pass through key hole slots in channel.
- (6) Separate glass from roller channel.
- (7) Raise glass upward and out of the opening at top of door.

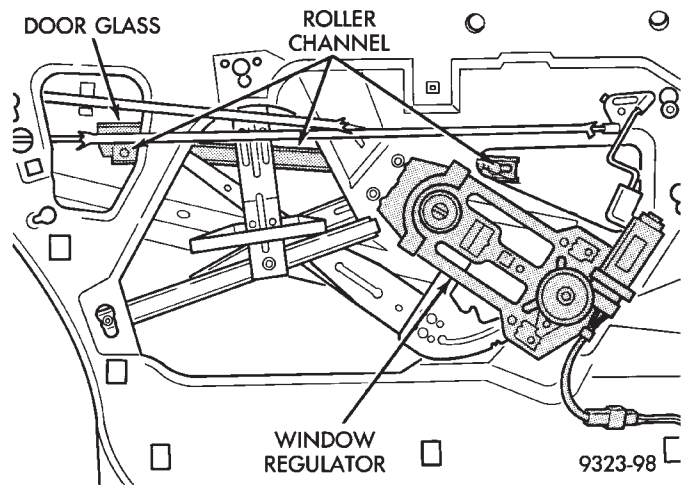


Fig. 40 Rear Door Glass

INSTALLATION

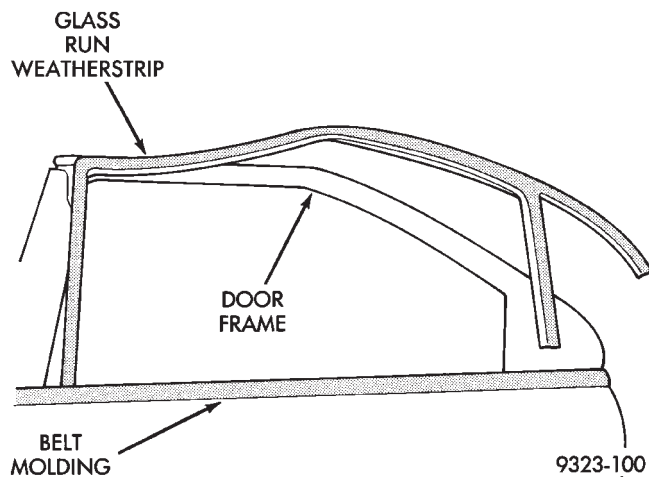
- (1) Lower glass into opening at top of door.
- (2) Place glass in position against roller channel.
- (3) Insert screw heads into key hole slots in roller channel and slide channel forward to locked position.
- (4) Tighten screws to hold regulator roller channel to glass.
- (5) Install upper trim retainer channel and install door trim panel.

REAR DOOR GLASS RUN WEATHERSTRIP

REMOVAL

- (1) Remove door trim panel and upper retainer channel.
- (2) Remove door glass.
- (3) Pull weatherstrip from lower rear channel above door latch (Fig. 41).
- (4) Disengage push-in fastener holding run weatherstrip to window frame.
- (5) Pull run weatherstrip from window frame channel.

REMOVAL AND INSTALLATION (Continued)

**Fig. 41 Rear Door Glass Run Weatherstrip****INSTALLATION**

- (1) Insert run weatherstrip into window frame channel.
- (2) Engage push-in fastener to hold run weatherstrip to window frame.
- (3) Insert weatherstrip into lower rear channel above door latch.
- (4) Install door glass.
- (5) Install upper retainer channel and door trim panel.

REAR DOOR GLASS REGULATOR

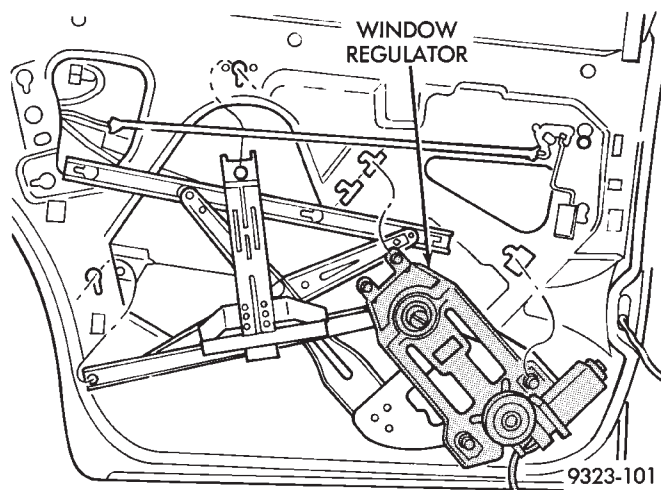
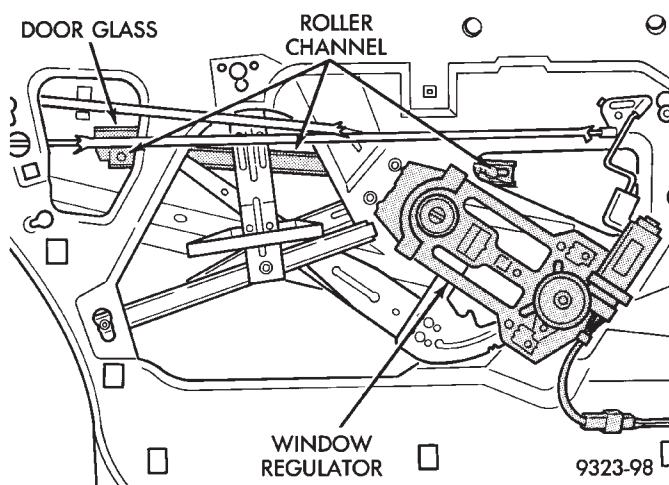
Power and manual door glass regulators are serviced using the same procedures. For power window motor procedures. Refer to Group 8S, Power Windows.

REMOVAL

- (1) Remove door trim panel.
- (2) Separate glass from regulator roller channel (Fig. 43).
- (3) Disconnect power window motor wire connector, if so equipped.
- (4) Loosen screw holding regulator scissor channel to door panel (Fig. 42).
- (5) Loosen bolt holding regulator support brace to door panel.
- (6) Separate screw and bolt heads from keyhole slots in door panel.
- (7) Loosen bolts holding regulator to door panel.
- (8) Separate regulator from door panel.
- (9) Slide regulator rearward and rotate forward end of roller channel through access hole in door panel.

INSTALLATION

- (1) Insert roller channel through access hole in door panel.

**Fig. 42 Window Regulator****Fig. 43 Roller Channel To Door Glass Attachments**

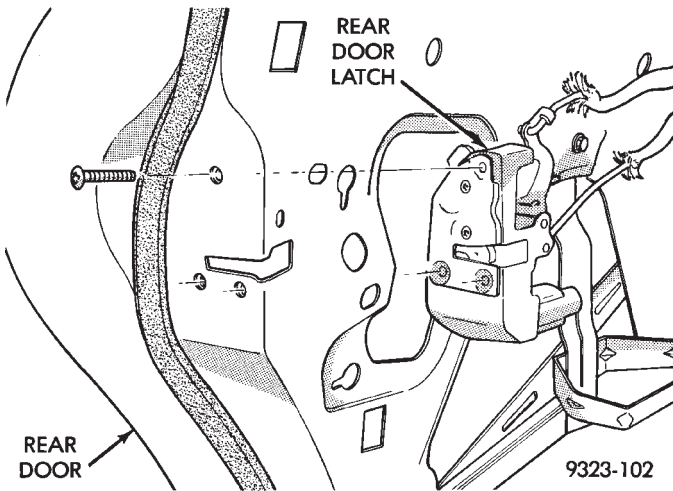
- (2) Insert bolt and screw heads through key hole slots in door.
- (3) Tighten bolts holding regulator to door panel.
- (4) Insert bolt heads on support brace and scissor channel into key hole slot on door panel.
- (5) Tighten bolt holding door regulator support brace to door panel.
- (6) Tighten screw to hold regulator scissor channel to door panel.
- (7) Engage power window motor wire connector, if equipped.
- (8) Install door glass.
- (9) Align glass and verify operation.
- (10) Install door trim panel.

REAR DOOR LATCH**REMOVAL**

- (1) Close door glass.
- (2) Remove door trim panel.
- (3) Disconnect lock button link from door latch.

REMOVAL AND INSTALLATION (Continued)

- (4) Disconnect lock cylinder link from door latch.
- (5) Disconnect outside door handle link from door latch.
- (6) Remove screws holding door latch to door end frame (Fig. 44).
- (7) Separate latch from door.

**Fig. 44 Rear Door Latch****INSTALLATION**

- (1) Place latch in position in door.
- (2) Install screws to hold door latch to door end frame.
- (3) Connect outside door handle link to door latch.
- (4) Connect lock cylinder link to door latch.
- (5) Connect lock button link to door latch.
- (6) Verify door latch operation.
- (7) Remove door trim panel.

REAR DOOR BELT MOLDING**REMOVAL**

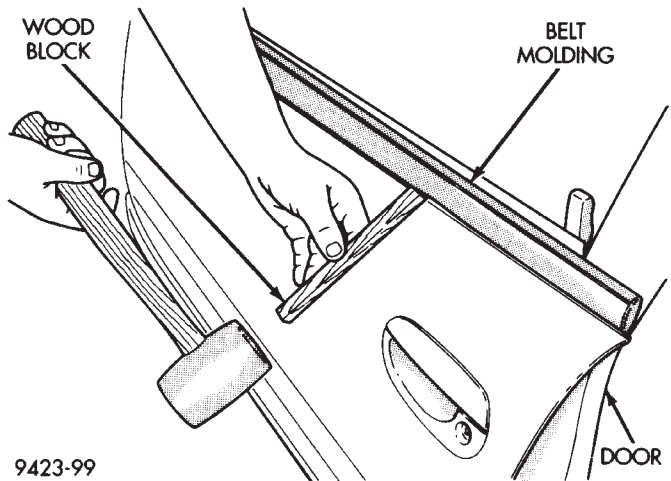
- (1) Using a rubber mallet and block of wood, tap upward at each clip holding belt molding to door (Fig. 45).
- (2) Separate belt molding from door.

INSTALLATION

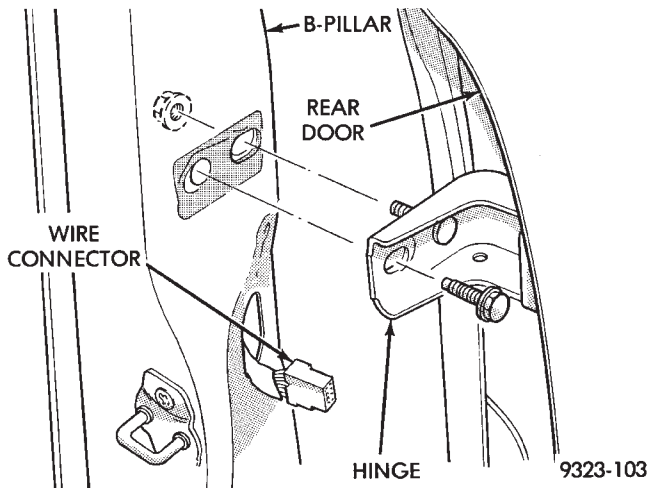
- (1) Place molding in position on door.
- (2) Push downward at each clip to hold molding to top of door.

REAR DOOR**REMOVAL**

- (1) Mark outline of hinge on B-pillar to aid installation.
- (2) Remove B-pillar trim as necessary to gain access to nuts behind pillar.
- (3) Disengage door wire harness connector from body harness.
- (4) Remove nuts holding door hinges to B-pillar.

**Fig. 45 Door Belt Molding—Typical**

- (5) Hold door inward against B-pillar.
- (6) Remove bolts holding door hinges to B-pillar (Fig. 46).
- (7) Hold door up and release door latch.
- (8) Separate door from vehicle.

**Fig. 46 Rear Door****INSTALLATION**

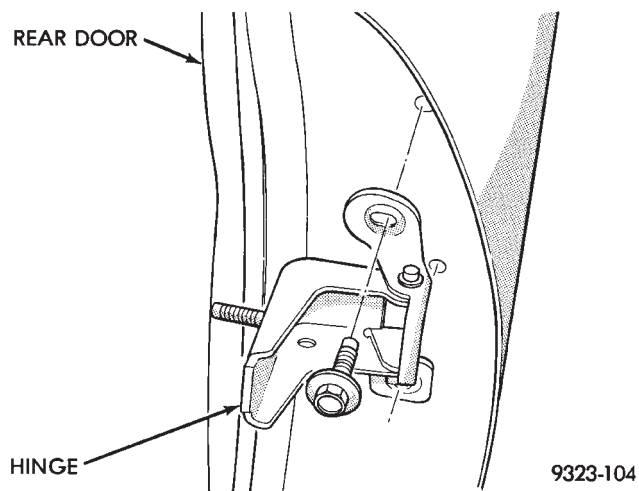
- (1) Place door in position on vehicle.
- (2) Latch door onto door latch striker.
- (3) Install bolts to hold door hinges to B-pillar.
- (4) Install nuts to hold door hinges to B-pillar.
- (5) Engage door wire harness connector to body harness.
- (6) Align door to achieve equal spacing on all sides and flush across gaps.
- (7) Install B-pillar trim.

REAR DOOR HINGE**REMOVAL**

- (1) Remove nut and bolt holding hinge to B-pillar. Refer to Rear Door Removal procedure.

REMOVAL AND INSTALLATION (Continued)

- (2) Mark outline of hinge on door end frame.
- (3) Remove bolts holding hinge to door end frame (Fig. 47).
- (4) Separate hinge from door.

**Fig. 47 Rear Door Hinge****INSTALLATION**

- (1) Place hinge in position on door.
- (2) Install bolts to hold hinge to door end frame.
- (3) Align hinge to marks on B-pillar.
- (4) Install nut and bolt to hold hinge to B-pillar.

REAR DOOR CHECK STRAP**REMOVAL**

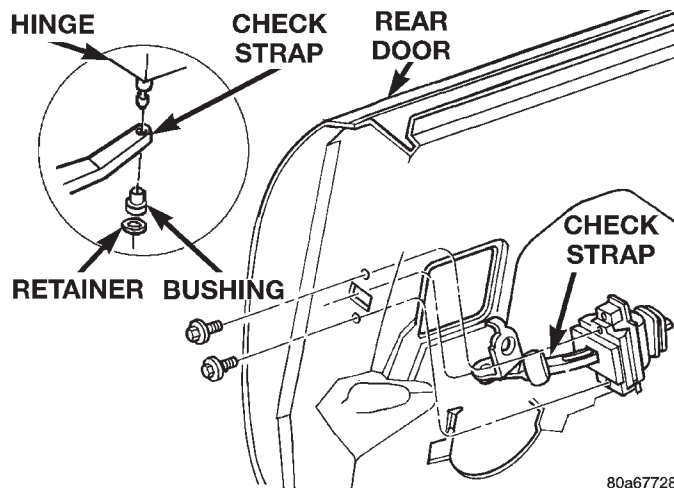
- (1) Close door glass.
- (2) Remove door trim panel.
- (3) Remove bolts holding check strap to door end frame.
- (4) Remove retainer holding check strap to door hinge.
- (5) Disengage check strap from pin on upper door hinge.
- (6) Separate check strap from vehicle (Fig. 48).

INSTALLATION

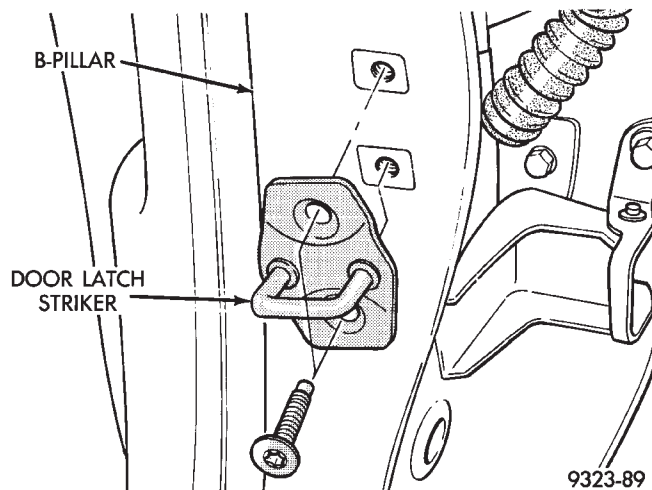
- (1) Place check strap in position on vehicle.
- (2) Engage check strap onto pin on upper door hinge.
- (3) Install bushing over pin on door hinge.
- (4) Install retainer to hold check strap to hinge.
- (5) Install bolts to hold check strap to door end frame.
- (6) Verify check strap operation.
- (7) Install door trim panel.

REAR DOOR LATCH STRIKER**REMOVAL**

- (1) Open rear door.

**Fig. 48 Rear Door Check Strap**

- (2) Mark location of door latch striker on B-pillar to assist installation alignment.
- (3) Remove bolts holding striker to B-pillar (Fig. 49).
- (4) Separate door latch striker from vehicle.

**Fig. 49 Rear Door Latch Striker****INSTALLATION**

- (1) Place door latch striker in position on vehicle.
- (2) Install bolts to hold striker to B-pillar.
- (3) Align striker to marked location on B-pillar and tighten bolts.

REAR DOOR PRIMARY WEATHERSTRIP**REMOVAL**

- (1) Open rear door.
- (2) Pull primary weatherstrip from channel around upper window frame.
- (3) Using a fork-type prying tool, disengage push-in fasteners holding weatherstrip to lower door end frames and bottom panel (Fig. 50).
- (4) Separate primary weatherstrip from door.

REMOVAL AND INSTALLATION (Continued)

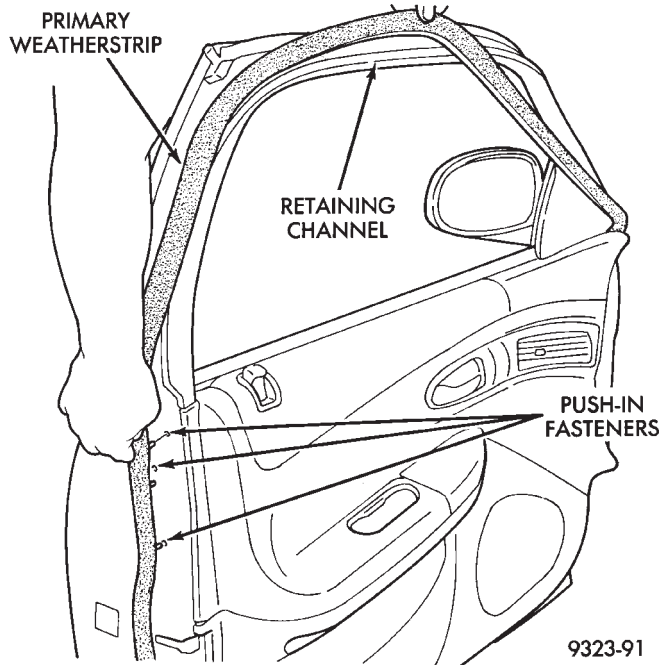


Fig. 50 Door Primary Weatherstrip—Typical

INSTALLATION

- (1) Place primary weatherstrip in position on door.
- (2) Engage push-in fasteners to hold primary weatherstrip to lower door end frames and bottom panel.
- (3) Insert weatherstrip into channel around upper window frame.
- (4) Verify weatherstrip seal.

REAR DOOR SECONDARY WEATHERSTRIP

REMOVAL

- (1) Open rear door.
- (2) Loosen door opening sill plate.
- (3) Pull secondary weatherstrip from fence around door opening (Fig. 51).

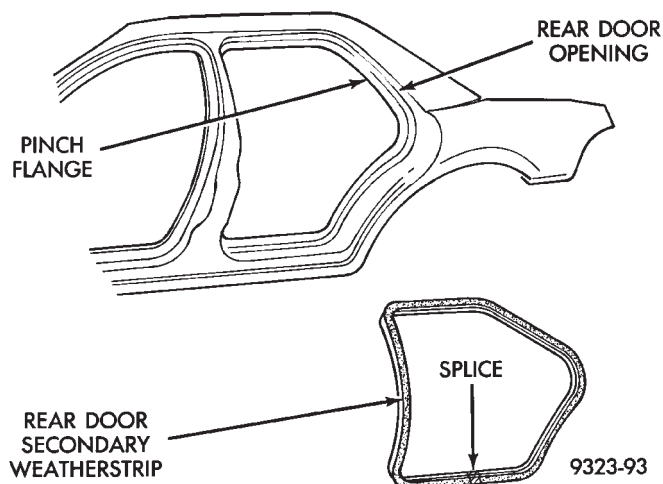


Fig. 51 Rear Door Secondary Weatherstrip

INSTALLATION

- (1) Position splice in weatherstrip at center of door opening sill.
- (2) Push secondary weatherstrip onto fence around door opening.
- (3) Tighten door opening sill plate.
- (4) Verify weatherstrip seal.

DRIP RAIL MOLDING

REMOVAL

- (1) Release front door latch and open door.
- (2) Release rear door latch and open door.
- (3) Remove screws holding drip rail molding to roof rail (Fig. 52).
- (4) Separate drip rail molding from vehicle.

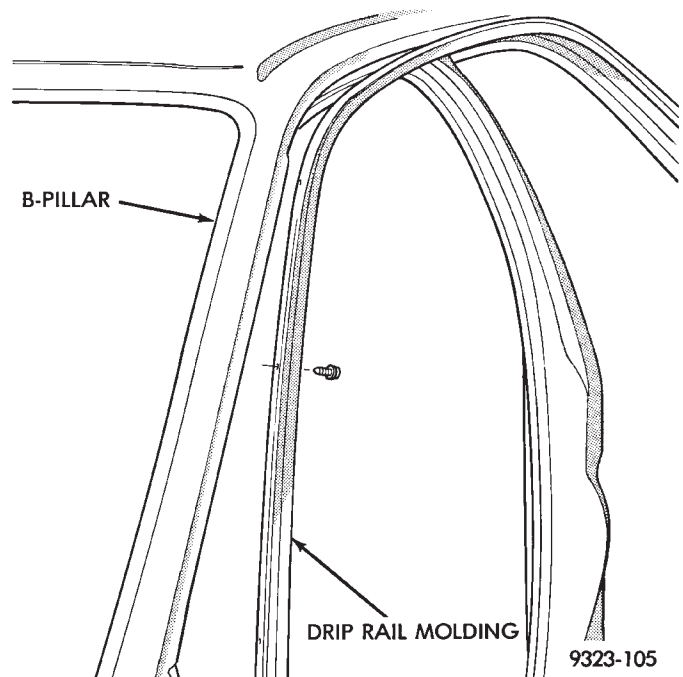


Fig. 52 Drip Rail Molding

INSTALLATION

- (1) Place drip rail molding in position on vehicle.
- (2) Install screws to hold drip rail molding to roof rail.
- (3) Close doors and verify fit.

CENTER CONSOLE BEZEL

REMOVAL

- (1) Place gear selector in neutral.
- (2) Loosen set screw holding gear shift knob to gear shift.
- (3) Remove gear shift knob from gear shift.
- (4) Remove ash receiver.
- (5) Remove screw holding bezel to center console (Fig. 53).

REMOVAL AND INSTALLATION (Continued)

(6) Disengage clips holding rear of bezel to center console.

(7) Separate bezel from vehicle.

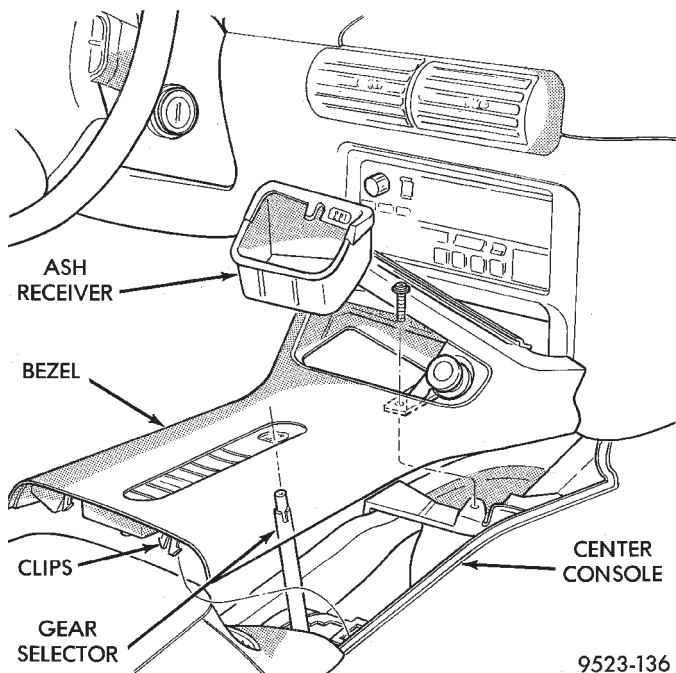


Fig. 53 Center Console Bezel

INSTALLATION

- (1) Place bezel in position on vehicle.
- (2) Engage clips to hold rear of bezel to center console.
- (3) Install screw to hold bezel to center console.
- (4) Install ash receiver.
- (5) Push gear shift knob onto gear shift.
- (6) Tighten set screw to hold gear shift knob to gear shift.

CENTER CONSOLE

REMOVAL

- (1) Remove center console bezel.
- (2) Remove screw holding forward crossmember to floor mounting bracket.
- (3) Remove screws holding bottom of glove compartment to rear mounting bracket (Fig. 54).
- (4) Separate center console from vehicle.

INSTALLATION

- (1) Place center console in position on vehicle.
- (2) Install screws to hold bottom of glove compartment to rear mounting bracket.
- (3) Install screw to hold forward crossmember to floor mounting bracket.
- (4) Install center console bezel.

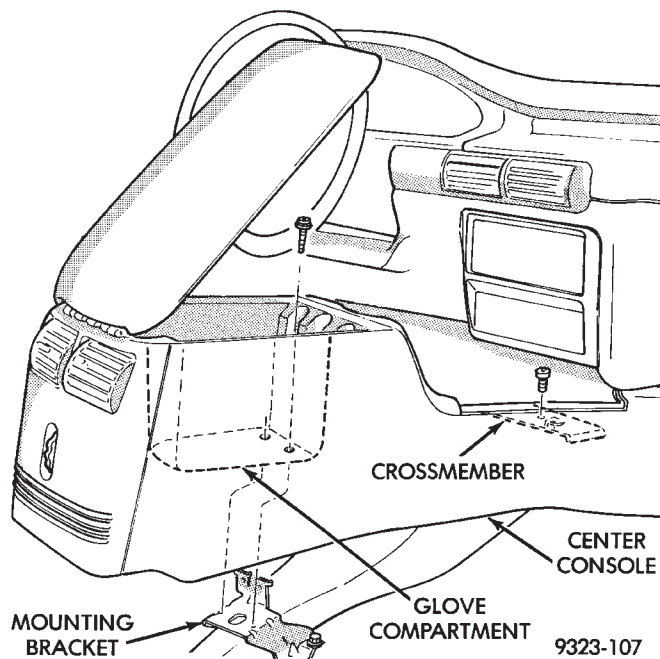


Fig. 54 Center Console

DOOR SILL TRIM

REMOVAL

- (1) Remove screws holding door sill trim to sill panel (Fig. 55).
- (2) Separate sill trim from vehicle.

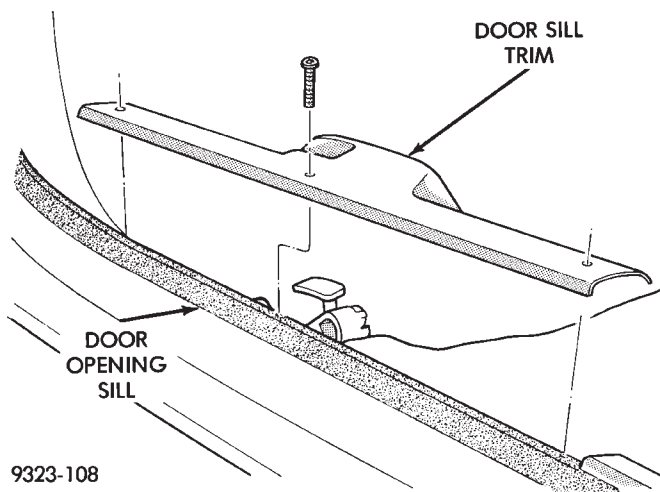


Fig. 55 Door Sill Trim—Typical

INSTALLATION

- (1) Place sill trim in position on vehicle.
- (2) Install screws to hold door sill trim to sill panel.

REMOVAL AND INSTALLATION (Continued)

A-PILLAR TRIM

REMOVAL

- (1) Remove screw holding bottom of A-pillar trim to cowl panel.
- (2) Disengage clips holding trim to A-pillar (Fig. 56).
- (3) Separate A-pillar trim from vehicle.

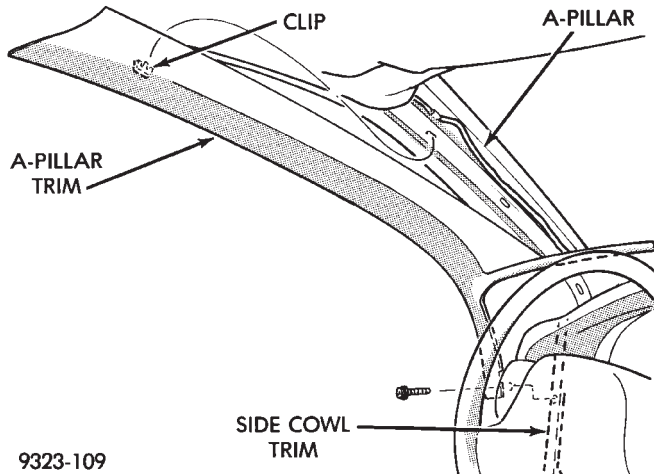


Fig. 56 A-Pillar Trim

INSTALLATION

- (1) Place A-pillar trim in position on vehicle.
- (2) Engage clips to hold trim to A-pillar.
- (3) Install screw to hold bottom of A-pillar trim to cowl panel.

SIDE COWL TRIM

REMOVAL

- (1) Remove screw holding top of side cowl trim to A-pillar.
- (2) Remove door sill trim as necessary to clear cowl trim removal path.
- (3) Remove screws holding side cowl trim to cowl panel (Fig. 57).
- (4) Separate side cowl trim from vehicle.

INSTALLATION

- (1) Place side cowl trim in position on vehicle.
- (2) Install screws to hold side cowl trim to cowl panel.
- (3) Install door sill trim.
- (4) Install screw to hold top of side cowl trim to A-pillar.

B-PILLAR UPPER TRIM

REMOVAL

- (1) Remove shoulder belt turning loop cover.
- (2) Remove bolt holding turning loop to shoulder belt height adjuster.

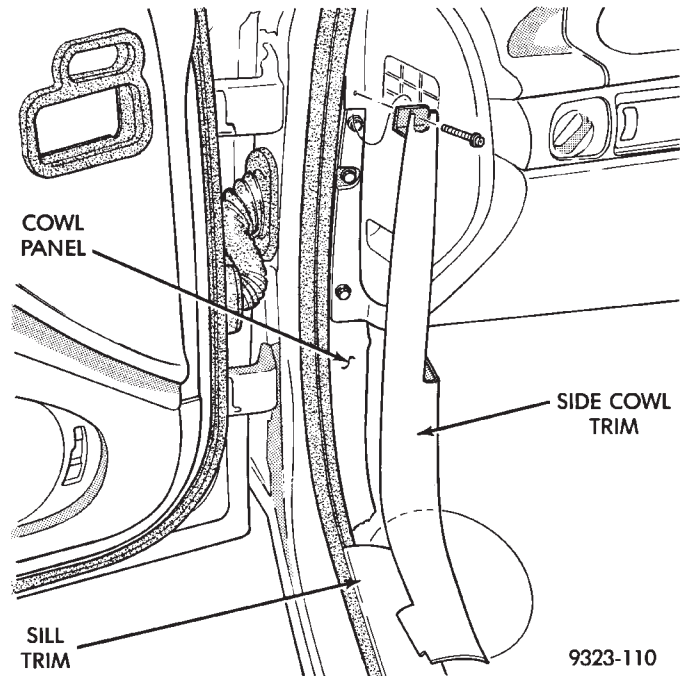


Fig. 57 Side Cowl Trim

- (3) Separate turning loop from adjuster.
- (4) Disengage clips holding upper trim to B-pillar (Fig. 58).
- (5) Separate B-pillar trim from vehicle.

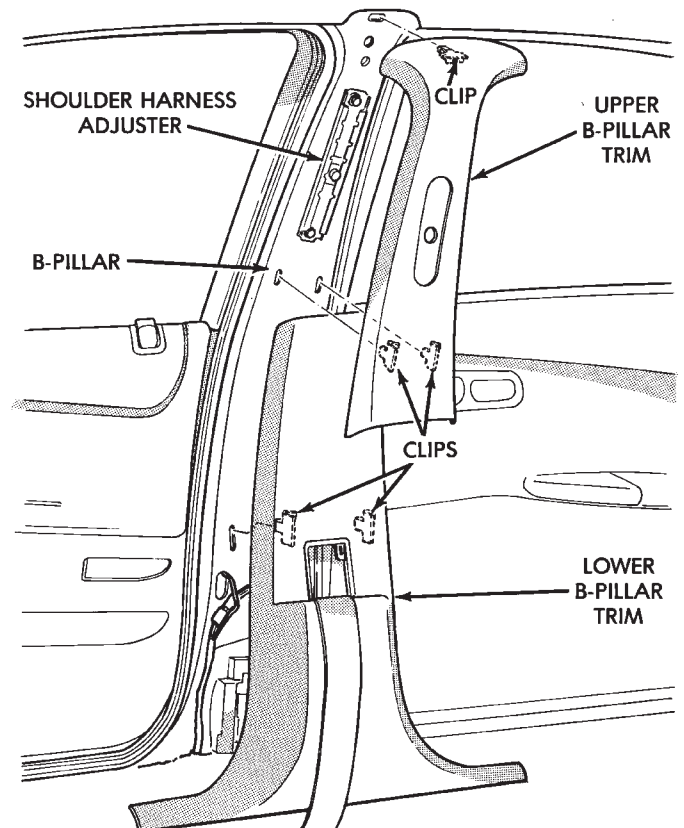


Fig. 58 B-Pillar Upper Trim

REMOVAL AND INSTALLATION (Continued)

INSTALLATION

- (1) Place B-pillar trim in position on vehicle.
- (2) Engage clips to hold upper trim to B-pillar.
- (3) Place shoulder belt turning loop in position on adjuster.
- (4) Install bolt to hold turning loop to shoulder belt height adjuster.
- (5) Install shoulder belt turning loop cover.

B-PILLAR LOWER TRIM

REMOVAL

- (1) Remove upper B-pillar trim.
- (2) Remove bolt holding seat belt to floor below B-pillar.
- (3) Remove access door from above seat belt slot on B-pillar trim.
- (4) Disengage clips holding lower trim to B-pillar.
- (5) Separate B-pillar trim from vehicle.

INSTALLATION

- (1) Place B-pillar trim in position on vehicle.
- (2) Engage clips to hold lower trim to B-pillar.
- (3) Install access door above seat belt slot on B-pillar trim.
- (4) Install bolt to hold seat belt to floor below B-pillar.
- (5) Install upper B-pillar trim.

UPPER QUARTER TRIM

REMOVAL

- (1) Disengage clips holding upper quarter trim to inner quarter panel (Fig. 59).
- (2) Separate upper quarter trim from vehicle.

INSTALLATION

- (1) Place upper quarter trim in position on vehicle.
- (2) Engage clips to hold upper quarter trim to inner quarter panel.

LOWER QUARTER TRIM

REMOVAL

- (1) Remove upper quarter trim.
- (2) Remove rear seat cushion and back.
- (3) Remove bolt holding rear seat shoulder harness to floor at bottom of quarter trim (Fig. 60).
- (4) Remove sill trim as necessary to clear quarter trim removal path.
- (5) Remove screws holding lower quarter trim to inner quarter panel.
- (6) Separate quarter trim from vehicle.

INSTALLATION

- (1) Place quarter trim in position on vehicle.

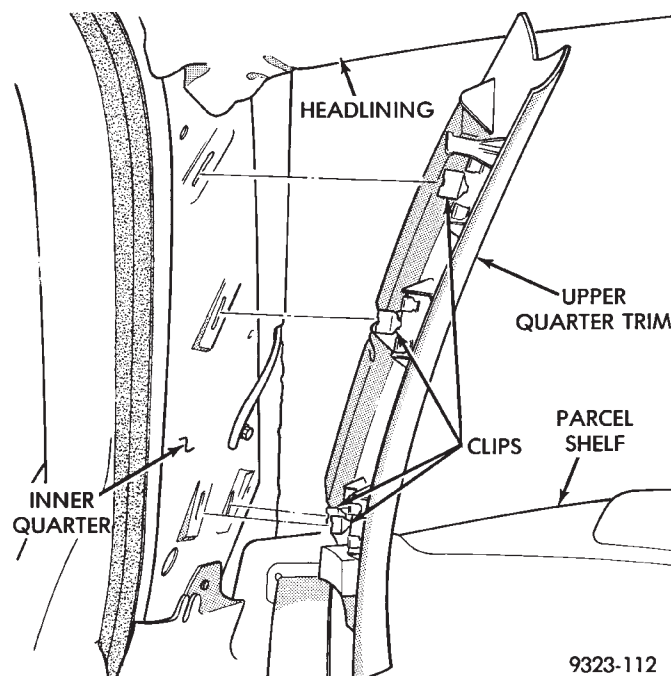


Fig. 59 Upper Quarter Trim

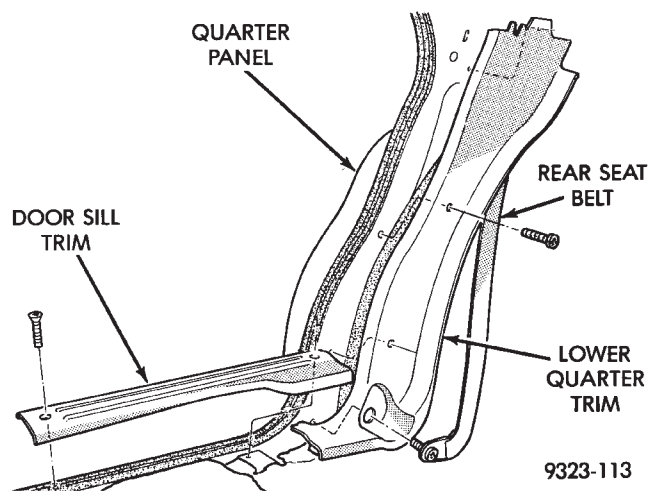


Fig. 60 Lower Quarter Trim

- (2) Install screws to hold lower quarter trim to inner quarter panel.
- (3) Install sill trim.
- (4) Install bolt to hold rear seat shoulder harness to floor at bottom of quarter trim.
- (5) Install rear seat cushion and back.
- (6) Install upper quarter trim.

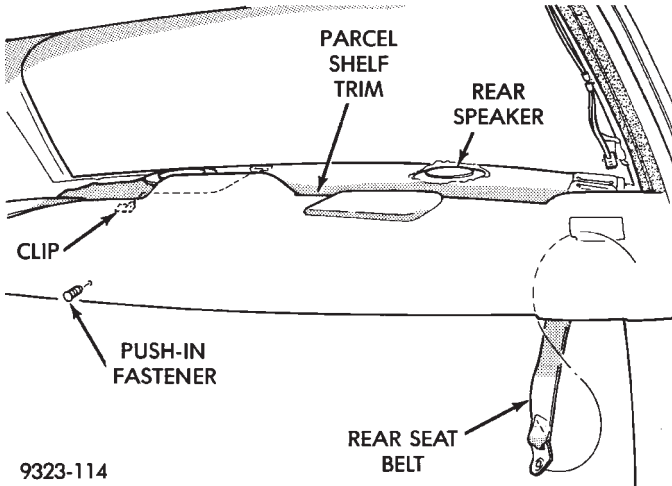
PARCEL SHELF TRIM PANEL

REMOVAL

- (1) Remove lower quarter trim panels.
- (2) Disengage CHMSL wire connector.
- (3) Pull parcel shelf trim away from rear glass to disengage clips (Fig. 61).

REMOVAL AND INSTALLATION (Continued)

- (4) Disengage seat belt bezels from shelf trim panel.
- (5) Pull rear shoulder harnesses through access holes in shelf trim.
- (6) Separate parcel shelf trim from vehicle.

**Fig. 61 Parcel Shelf Trim Panel****INSTALLATION**

- (1) Place parcel shelf trim in position in vehicle.
- (2) Insert rear shoulder harnesses through access holes in shelf trim.
- (3) Engage seat belt bezels into shelf trim panel.
- (4) Push parcel shelf trim rearward toward rear glass and engage clips.
- (5) Engage CHMSL wire connector.
- (6) Install lower quarter trim panels.

FRONT SEAT BELT BUCKLE**REMOVAL**

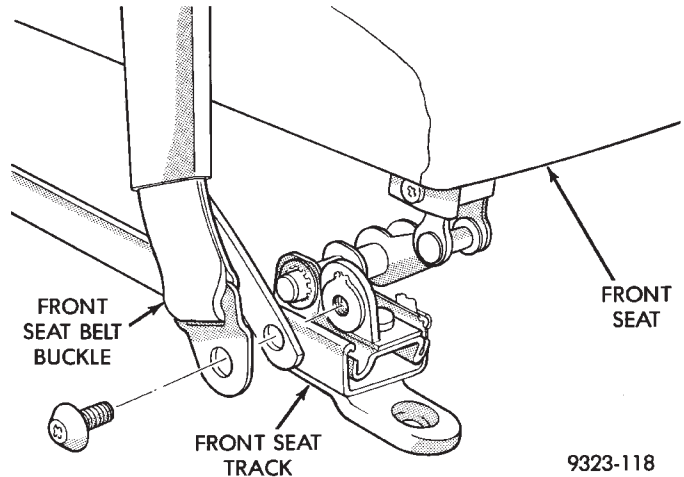
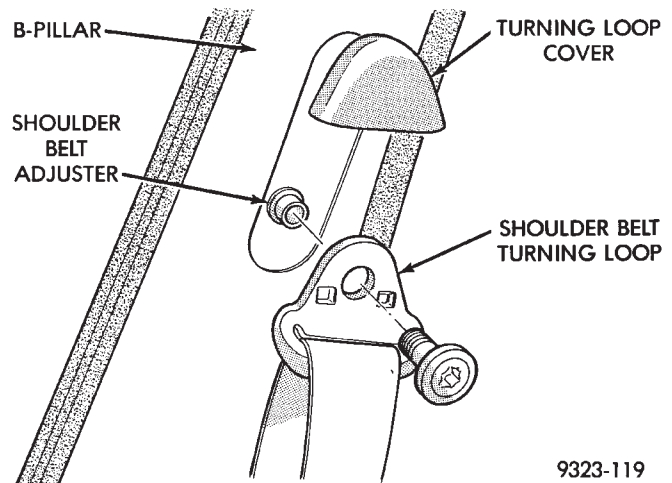
- (1) Remove front seat as necessary to gain access to seat belt buckle anchor bolt.
- (2) Remove bolt holding buckle and reinforcement to front seat track (Fig. 62).
- (3) Separate seat belt buckle from vehicle.

INSTALLATION

- (1) Place seat belt buckle in position on vehicle.
- (2) Install bolt to hold buckle and reinforcement to front seat track or floor.
- (3) Install front seat, if it was removed.

FRONT SHOULDER BELT TURNING LOOP**REMOVAL**

- (1) On back of turning loop cover, disengage clips holding cover to turning loop.
- (2) Separate cover from turning loop.
- (3) Remove bolt holding turning loop to shoulder belt height adjuster (Fig. 63).
- (4) Separate turning loop from adjuster.

**Fig. 62 Front Seat Belt Buckle—Typical****Fig. 63 Front Shoulder Belt Turning Loop****INSTALLATION**

- (1) Place turning loop in position on adjuster.
- (2) Install bolt to hold turning loop to shoulder belt height adjuster.
- (3) Install cover on turning loop.

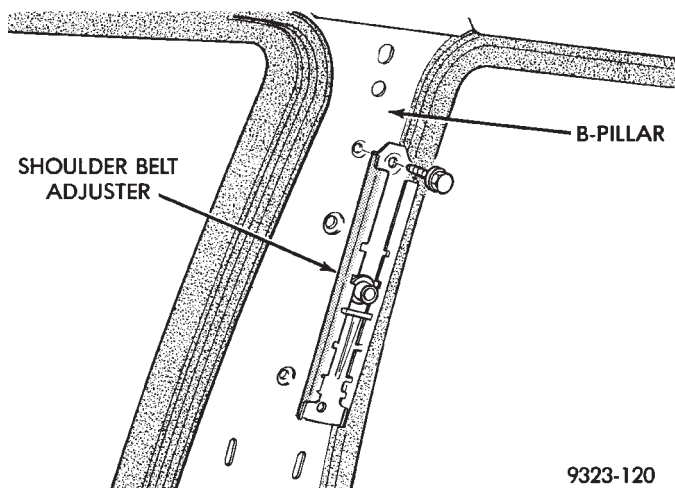
FRONT SHOULDER BELT ADJUSTER**REMOVAL**

- (1) Remove upper B-pillar trim.
- (2) Remove bolts holding shoulder belt adjuster to B-pillar (Fig. 64).
- (3) Separate adjuster from B-pillar.

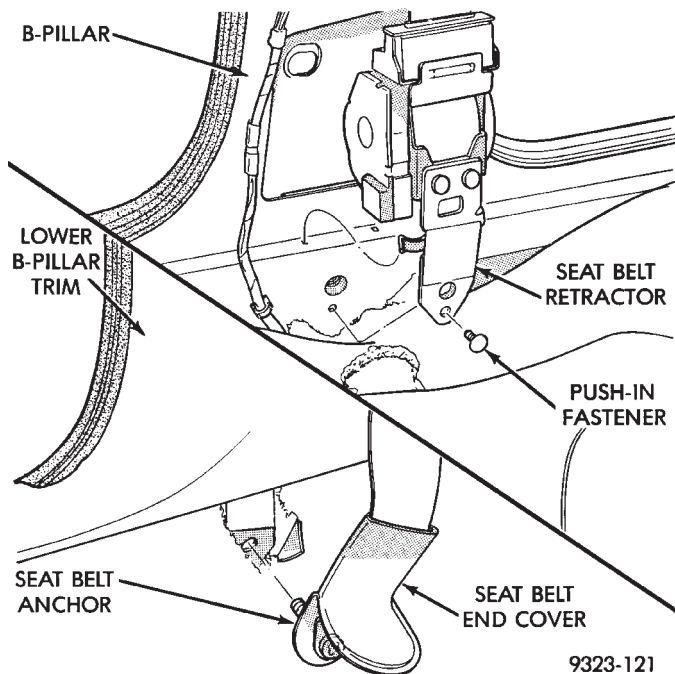
INSTALLATION

- (1) Place adjuster in position on B-pillar.
- (2) Install bolts to hold shoulder belt adjuster to B-pillar.
- (3) Install upper B-pillar trim.

REMOVAL AND INSTALLATION (Continued)

**Fig. 64 Front Shoulder Belt Adjuster****FRONT SEAT BELT RETRACTOR****REMOVAL**

- (1) Remove shoulder belt turning loop from height adjuster.
- (2) Remove upper B-pillar trim.
- (3) Remove lower B-pillar trim.
- (4) Remove push-in fastener holding seat belt retractor to floor kick-up below B-pillar (Fig. 65).
- (5) Separate seat belt retractor from vehicle.

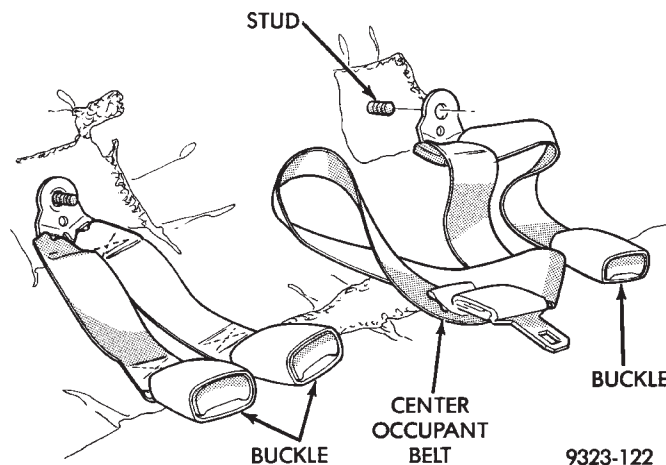
**Fig. 65 Front Seat Belt Retractor****INSTALLATION**

- (1) Place seat belt retractor in position on vehicle.
- (2) Install push-in fastener to hold seat belt retractor to floor kick-up below B-pillar.
- (3) Install lower B-pillar trim.

- (4) Install upper B-pillar trim.
- (5) Install shoulder belt turning loop on height adjuster.

REAR SEAT BELT BUCKLE**REMOVAL**

- (1) Remove rear seat cushion.
- (2) Remove rear seat back.
- (3) Separate seat belt buckle or belt from stud on floor (Fig. 66).

**Fig. 66 Rear Seat Belt Buckle****INSTALLATION**

- (1) Place seat belt buckle or belt anchor over stud on floor.
- (2) Install rear seat back.
- (3) Install rear seat cushion.

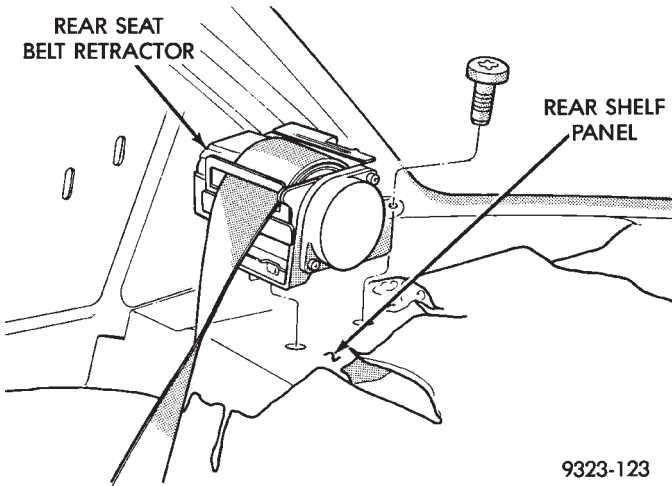
REAR SEAT BELT RETRACTOR**REMOVAL**

- (1) Remove upper quarter trim panels.
- (2) Remove one lower quarter trim panel.
- (3) Remove parcel shelf trim cover.
- (4) Remove bolt holding lower seat belt anchor to floor below quarter trim.
- (5) Remove bolt holding belt retractor to shelf panel (Fig. 67).
- (6) Separate belt from vehicle.

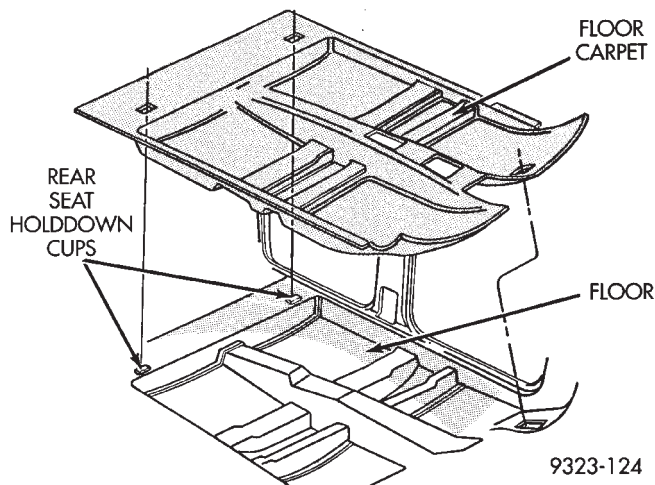
INSTALLATION

- (1) Place belt in position on vehicle.
- (2) Install bolt to hold belt retractor to shelf panel.
- (3) Install bolt to hold lower seat belt anchor to floor below quarter trim.
- (4) Install parcel shelf trim cover.
- (5) Install lower quarter trim panel.
- (6) Install upper quarter trim panels.

REMOVAL AND INSTALLATION (Continued)

**Fig. 67 Rear Seat Belt Retractor****FLOOR CARPET****REMOVAL**

- (1) Remove door sill trim covers.
- (2) Remove cowl side trim covers.
- (3) Remove front seats.
- (4) Remove bolts holding seat belt lower anchors to floor below B-pillar trim panels.
- (5) Remove center console, if equipped.
- (6) Remove rear seat air distribution duct, if positioned above carpet.
- (7) Remove rear seat cushion.
- (8) Separate carpet from vehicle (Fig. 68).

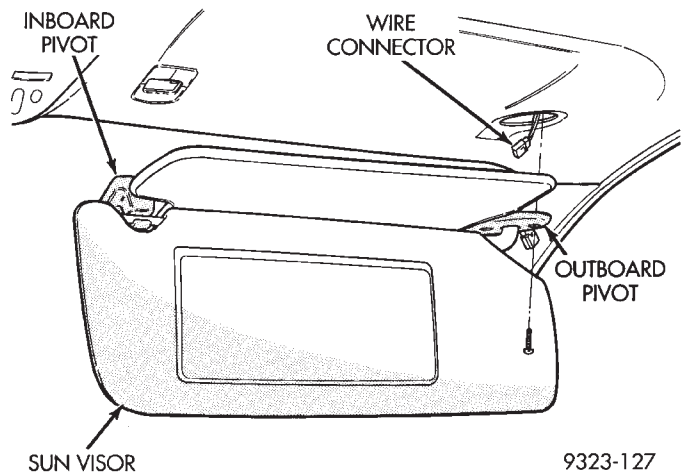
**Fig. 68 Floor Carpet****INSTALLATION**

- (1) Place carpet in proper position on floor of vehicle.
- (2) Install rear seat cushion.
- (3) Install rear seat air distribution duct, if equipped.
- (4) Install center console, if equipped.

- (5) Install bolts to hold seat belt lower anchors to floor below B-pillar trim panels.
- (6) Install front seats.
- (7) Install cowl side trim covers.
- (8) Install door sill trim covers.

SUN VISOR**REMOVAL**

- (1) Remove screw holding inboard visor pivot to windshield header (Fig. 69).
- (2) Remove screws holding outboard visor pivot base to windshield header.
- (3) Separate visor from header.
- (4) Disconnect visor vanity lamp and universal garage door opener wire connector, if equipped.

**Fig. 69 Sun Visor****INSTALLATION**

- (1) Engage visor vanity lamp and universal garage door opener wire connector, if equipped.
- (2) Place visor in position on header.
- (3) Install screws to hold outboard visor pivot base to windshield header.
- (4) Install screw to hold inboard visor pivot to windshield header.

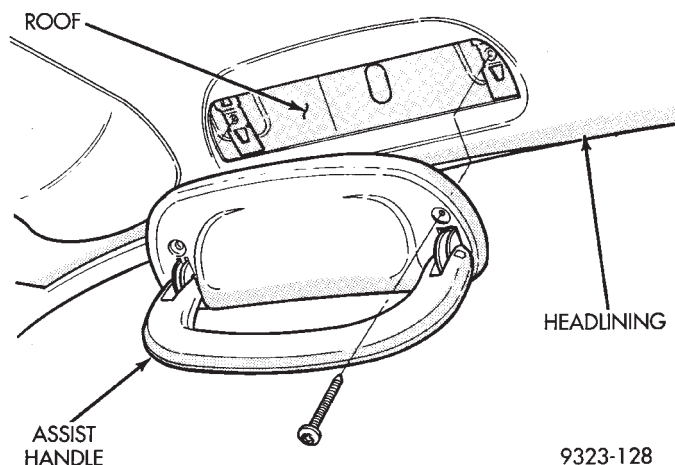
FRONT ASSIST HANDLE**REMOVAL**

- (1) Pull and hold assist handle down.
- (2) Remove screws holding assist handle to roof (Fig. 70).
- (3) Separate assist handle from vehicle.

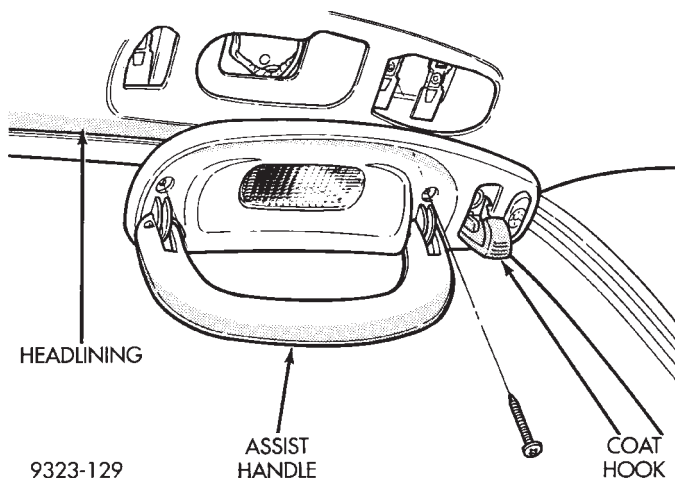
INSTALLATION

- (1) Place assist handle in position on vehicle.
- (2) Install screws to hold assist handle to roof.

REMOVAL AND INSTALLATION (Continued)

**Fig. 70 Front Assist Handle****REAR ASSIST HANDLE AND READING LAMP****REMOVAL**

- (1) Pull down coat hook.
- (2) Remove screws holding assist handle to roof from behind coat hook.
- (3) Pull and hold assist handle down.
- (4) Remove screws holding assist handle to roof (Fig. 71).
- (5) Separate assist handle from roof.
- (6) Disengage clips holding reading lamp socket to back of assist handle base.
- (7) Disengage reading lamp switch from slot on back of assist handle base.
- (8) Separate assist handle from vehicle.

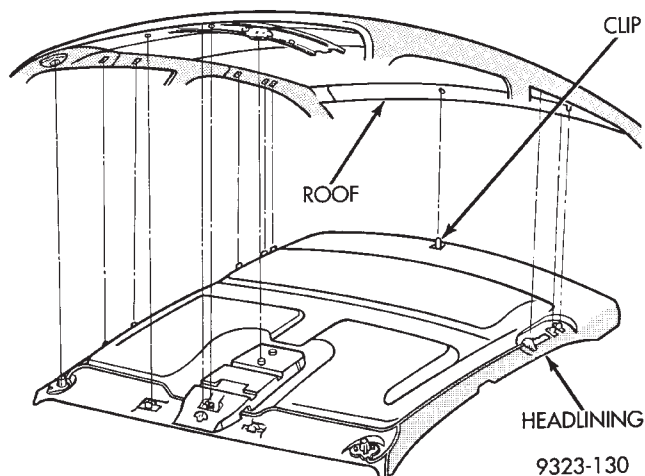
**Fig. 71 Rear Assist Handle and Reading Lamp****INSTALLATION**

- (1) Place assist handle in position on vehicle.
- (2) Engage reading lamp switch into slot on back of assist handle base.
- (3) Engage clips to hold reading lamp socket to back of assist handle base.

- (4) Place assist handle in position on roof.
- (5) Pull and hold assist handle down.
- (6) Install screws to hold assist handle to roof.
- (7) Install screw to hold assist handle to roof behind coat hook.

HEADLINING**REMOVAL**

- (1) Remove A-pillar trim panels.
- (2) Remove sun visors.
- (3) Remove overhead console. Refer to Group 8C, Overhead Console.
- (4) Remove upper B-pillar trim panels.
- (5) Remove front and rear assist handles.
- (6) Remove upper quarter trim panels.
- (7) Disengage clip holding headlining to roof above rear window using special tool C-6967 (Fig. 72).
- (8) Remove pinch welt holding headlining to sunroof opening, if equipped.
- (9) Separate headlining from vehicle.

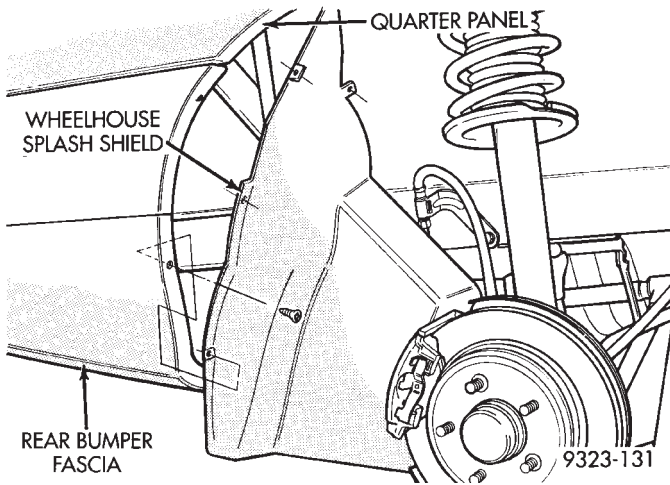
**Fig. 72 Headlining****INSTALLATION**

- (1) Place headlining in proper position in vehicle.
- (2) Install pinch welt to hold headlining to sunroof opening, if equipped.
- (3) Engage clip to hold headlining to roof above rear window.
- (4) Install upper quarter trim panels.
- (5) Install front and rear assist handles.
- (6) Install upper B-pillar trim panels.
- (7) Install overhead console. Refer to Group 8C, Overhead Console.
- (8) Install sun visors.
- (9) Install A-pillar trim panels.

REMOVAL AND INSTALLATION (Continued)

REAR WHEELHOUSE SPLASH SHIELD**REMOVAL**

- (1) Hoist and support vehicle on safety stands.
- (2) Remove rear wheel.
- (3) Remove screws holding splash shield to rear wheelhouse.
- (4) Remove screw holding splash shield to quarter panel.
- (5) Remove screws holding splash shield to rear bumper fascia (Fig. 73).
- (6) Separate splash shield from vehicle.

**Fig. 73 Rear Wheelhouse Splash Shield****INSTALLATION**

- (1) Place splash shield in position on vehicle.
- (2) Install screws to hold splash shield to rear bumper fascia.
- (3) Install screw to hold splash shield to quarter panel.
- (4) Install screws to hold splash shield to rear wheelhouse.
- (5) Install rear wheel.
- (6) Lower vehicle.

BODY VENT**REMOVAL**

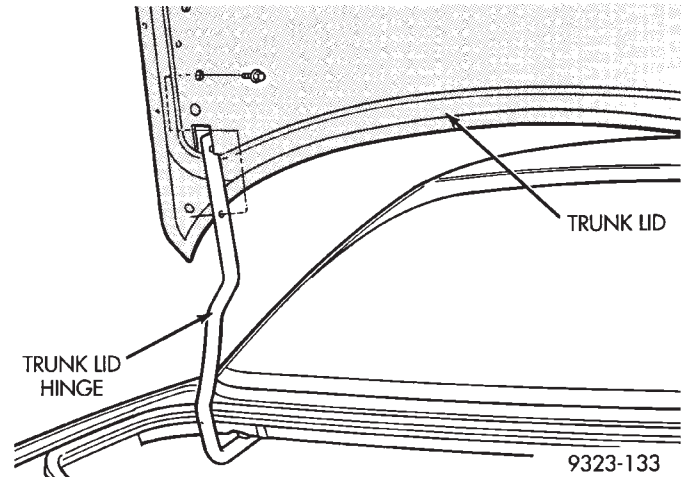
- (1) Hoist and support vehicle on safety stands.
- (2) From behind bumper fascia side panels, disengage clips holding body vent to trunk side panel.
- (3) Pull body vent outward and away from trunk side panel.
- (4) Separate body vent from vehicle.

INSTALLATION

- (1) Place body vent in position on vehicle.
- (2) Push body vent inward until clips click into place.
- (3) Lower vehicle.

TRUNK LID**REMOVAL**

- (1) Release trunk latch and open trunk lid.
- (2) Mark bolt locations on inside of trunk lid to aid installation.
- (3) Remove bolts holding top of hinge to trunk lid.
- (4) With aid from a helper, remove bolts holding bottom of hinge to trunk lid (Fig. 74).
- (5) Separate trunk lid from vehicle.

**Fig. 74 Trunk Lid****INSTALLATION**

- (1) Place trunk lid in position on vehicle.
- (2) With aid from a helper, install bolts to hold bottom of hinge to trunk lid.
- (3) Install bolts to hold top of hinge to trunk lid.
- (4) Align trunk lid to achieve equal spacing on all sides and flush across gaps.
- (5) Verify trunk lid operation and sealing.

TRUNK LID COVER**REMOVAL**

- (1) Release trunk latch and open trunk lid.
- (2) Remove fasteners from trunk lid.
- (3) Separate trunk lid from vehicle.

INSTALLATION

- (1) Place trunk lid in position on vehicle.
- (2) Secure trunk lid cover by installing fasteners.

TRUNK LID TORSION BARS**REMOVAL**

- (1) Release trunk latch and open trunk.
- (2) Support trunk with a suitable prop device.

REMOVAL AND INSTALLATION (Continued)

WARNING: Use extreme care when performing the following step. The torsion bars are under great pressure and can release suddenly, possibly causing personal injury.

(3) Using a vise grip plier locked on the end of the torsion bar, release torsion bar from adjustment groove on hinge (Fig. 75).

(4) Disengage torsion bar from hinge on opposite side of vehicle.

(5) Separate torsion bar from vehicle.

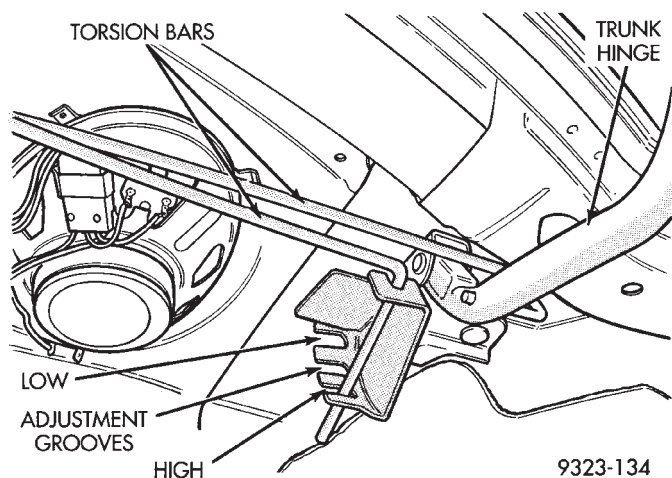


Fig. 75 Trunk Lid Torsion Bars

INSTALLATION

(1) Place torsion bar in position on vehicle.

(2) Engage torsion bar into hinge.

WARNING: Use extreme care when performing the following step. The torsion bars are under great pressure and can release suddenly, possibly causing personal injury.

(3) Using a vise grip plier locked on the end of the torsion bar, position torsion bar in groove that will allow trunk lid to stay up without assistance.

(4) Verify trunk lid operation.

TRUNK LID WEATHERSTRIP

REMOVAL

(1) Release trunk lid latch and open trunk lid.

(2) Pull trunk lid weatherstrip from trunk opening fence (Fig. 76).

(3) Separate weatherstrip from vehicle.

INSTALLATION

(1) Place weatherstrip in position on vehicle.

(2) Position splice in weatherstrip above the trunk latch striker.

(3) Push trunk lid weatherstrip onto trunk opening fence.

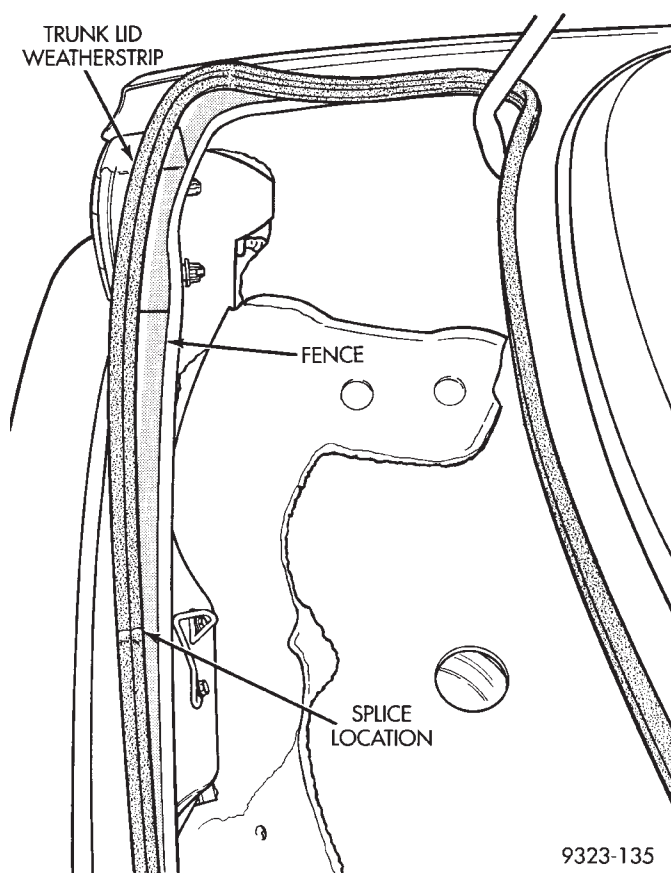


Fig. 76 Trunk Lid Weatherstrip

(4) Verify trunk lid operation and sealing.

TRUNK LATCH

REMOVAL

(1) Release trunk lid latch and open trunk lid.

(2) Remove push-in fasteners holding trunk lid lining to rear of trunk lid.

(3) Remove bolts holding trunk latch to trunk lid (Fig. 77).

(4) Separate trunk latch from trunk lid.

(5) Disengage power lock connector from latch solenoid.

(6) Disengage trunk ajar switch connector from latch.

(7) Separate latch from vehicle.

(8) Remove trunk lock remote adapter.

INSTALLATION

(1) Install trunk lock remote adapter.

(2) Place latch in position on vehicle.

(3) Engage trunk ajar switch connector on latch.

(4) Engage power lock connector on latch solenoid.

(5) Place trunk latch in position on trunk lid.

(6) Install bolts to hold trunk latch to trunk lid.

(7) Adjust trunk latch for proper trunk lid to quarter panel alignment and weatherstrip sealing.

REMOVAL AND INSTALLATION (Continued)

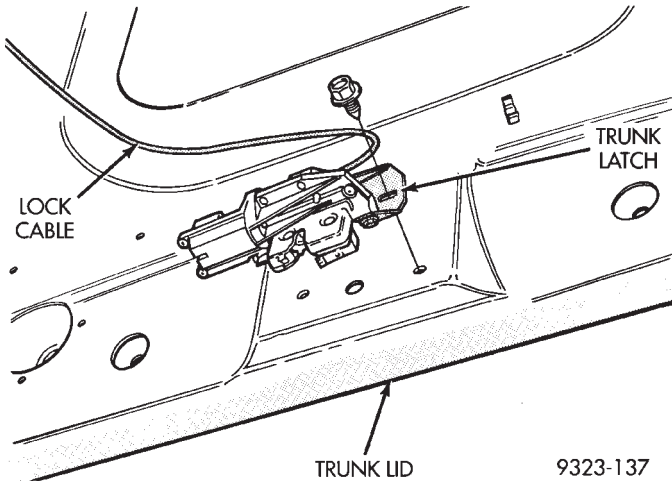


Fig. 77 Trunk Latch

- (8) Install push-in fasteners to hold trunk lid lining to rear of trunk lid.
- (9) Verify trunk lid latch operation.

TRUNK LOCK REMOTE ADAPTER

REMOVAL

- (1) Release trunk lid latch and open trunk lid.
- (2) Remove push-in fasteners holding trunk lid lining to rear of trunk lid.
- (3) Remove push-in fasteners holding trunk lock remote adapter to trunk lid (Fig. 78).
- (4) Remove trunk latch.
- (5) Disengage clips holding lock cable to trunk lid.
- (6) Separate trunk lock remote adapter from vehicle.

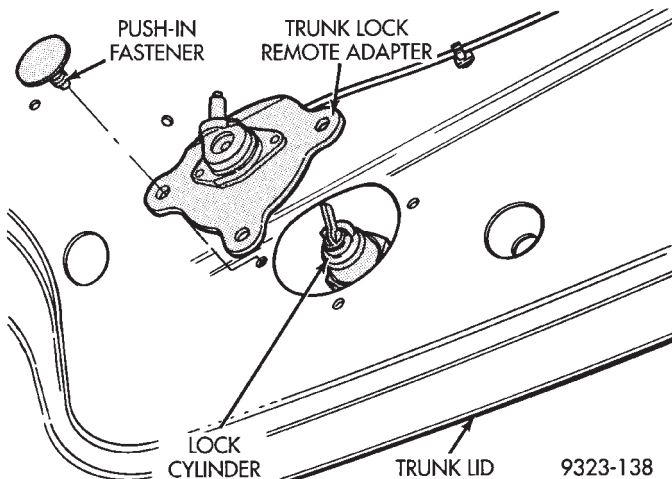


Fig. 78 Trunk Lock Remote Adapter

INSTALLATION

- (1) Place trunk lock remote adapter in position on vehicle.
- (2) Engage clips to hold lock cable to trunk lid.
- (3) Install trunk latch.

- (4) Insert lock cylinder link into adapter and install push-in fasteners to hold trunk lock remote adapter to trunk lid.

- (5) Install push-in fasteners to hold trunk lid lining to rear of trunk lid.

- (6) Verify trunk lock operation before closing trunk lid.

TRUNK LOCK CYLINDER

REMOVAL

- (1) Release trunk lid latch and open trunk lid.
- (2) Remove push-in fasteners holding trunk lid lining to rear of trunk lid.
- (3) Remove push-in fasteners holding trunk lock remote adapter to trunk lid.
- (4) Remove trunk lid tail lamps. Refer to Group 8L, Lamps.
- (5) Remove nut holding lock cylinder to trunk lid (Fig. 79).
- (6) Separate lock cylinder from vehicle.

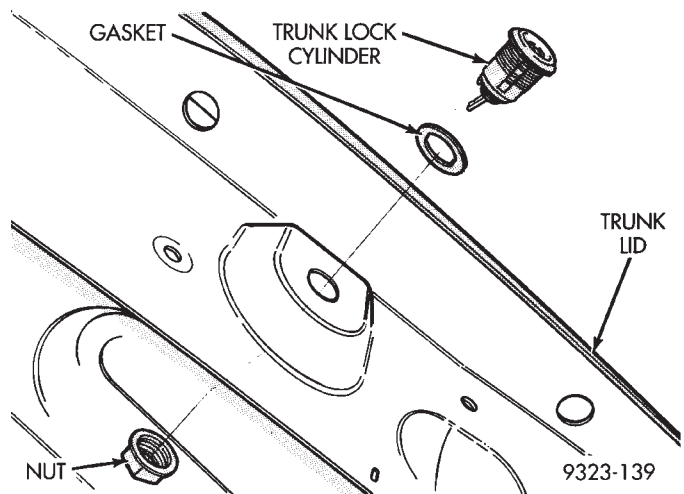


Fig. 79 Trunk Lock Cylinder

INSTALLATION

- (1) Place lock cylinder in position on vehicle.
- (2) Install nut to hold lock cylinder to trunk lid.
- (3) Install trunk lid tail lamps. Refer to Group 8L, Lamps.
- (4) Insert lock cylinder link into remote adapter.
- (5) Install push-in fasteners to hold trunk lock remote adapter to trunk lid.
- (6) Install push-in fasteners to hold trunk lid lining to rear of trunk lid.
- (7) Verify trunk lock operation before closing trunk lid.

TRUNK LID SLAM BUMPER

REMOVAL

- (1) Release trunk lid latch and open trunk lid.
- (2) Unscrew slam bumper from trunk lid.

REMOVAL AND INSTALLATION (Continued)

- (3) Separate slam bumper from trunk lid.

INSTALLATION

- (1) Place slam bumper in position on trunk lid.
- (2) Screw slam bumper into trunk lid.
- (3) Verify trunk lid alignment.

BODY SIDE MOLDING AND APPLIQUE

STICK-ON BODY SIDE MOLDING REMOVAL AND INSTALLATION

- (1) Warm the effected stick-on molding and body metal to approximately 38°C (100°F) using a suitable heat lamp or heat gun.
- (2) Pull stick-on molding from painted surface.
- (3) Remove adhesive tape residue from painted surface of vehicle.
- (4) If molding is to be reused, remove tape residue from molding. Clean back of molding with Mopar® Super Kleen solvent or equivalent. Wipe molding dry with lint free cloth. Apply new body side molding (two sided adhesive) tape to back of molding.
- (5) Clean body surface with Mopar® Super Kleen solvent or equivalent. Wipe surface dry with lint free cloth.
- (6) Apply a length of masking tape on the body, parallel to the top edge of the molding to use as a guide, if necessary.
- (7) Remove protective cover from tape on back of molding. Apply molding to body below the masking tape guide.
- (8) Remove masking tape guide and heat body and molding, see step one. Firmly press molding to body surface to assure adhesion.

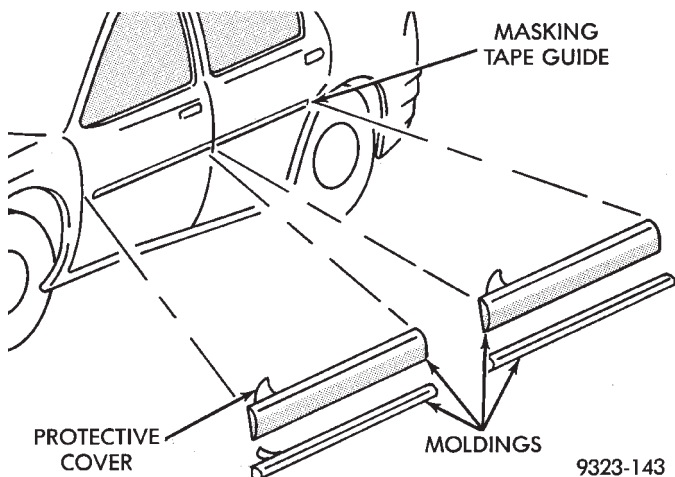


Fig. 80 Body Side Molding

ADJUSTMENTS

FRONT DOOR GLASS ADJUSTMENT

- (1) Remove door trim panel.
- (2) Loosen screw holding scissor channel to door panel at rear of access hole (Fig. 81).
- (3) Loosen bolt holding support brace to door panel above access hole.
- (4) Loosen nut holding the scissor channel to the support brace.
- (5) Position glass in run weatherstrips to achieve smooth operation and proper fit.
- (6) Secure all fasteners and install trim panel.

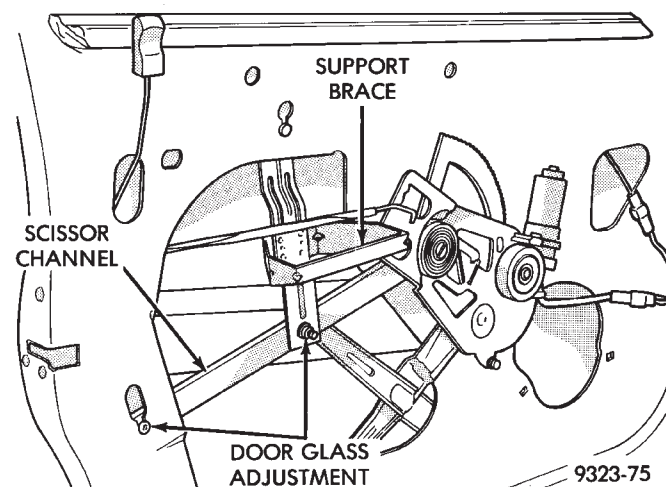


Fig. 81 Front Door Glass Adjustment

REAR DOOR GLASS ADJUSTMENT

REMOVAL

- (1) Remove door trim panel.
- (2) Loosen screw holding scissor channel to door panel at rear of access hole (Fig. 82).
- (3) Loosen bolt holding support brace to door panel above access hole.
- (4) Loosen nut holding scissor channel to support brace.
- (5) Position glass in run weatherstrips to achieve smooth operation and proper fit.
- (6) Secure all fasteners and install trim panel.

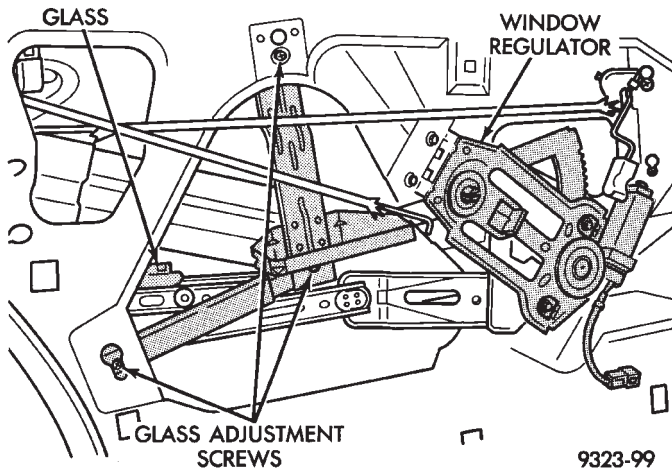


Fig. 82 Rear Door Glass Adjustment

SPECIFICATIONS

BODY LUBRICATION SPECIFICATIONS

LUBRICATION REQUIREMENTS

Body mechanisms and linkages should be inspected, cleaned, and lubricated, as required, to maintain ease of operation and to provide protection against rust and wear. When performing other underhood services, the hood latch release mechanism and safety catch should be inspected, cleaned, and lubricated. During the winter season, external door lock cylinders should be lubricated to assure proper operation when exposed to water and ice.

Prior to the application of any lubricant, the parts concerned should be wiped clean to remove dust and grit. If necessary, a suitable solvent can be used to clean the item to be lubricated. After lubricating a component, any excess oil or grease should be removed.

LUBRICANT APPLICATION

DOOR LOCK CYLINDERS

- (1) Apply a small amount of lubricant directly into the lock cylinder.
- (2) Apply a small amount of lubricant to the key.
- (3) Insert key into lock cylinder and cycle the mechanism from the locked to the unlocked position.

NOTE: Do not add more lubricant.

(4) Cycle the lock cylinder mechanism several times to allow the lubricant to flow throughout the cylinder.

(5) Wipe all lubricant from exterior of lock cylinder and key.

ALL OTHER BODY MECHANISMS

- (1) Clean component as described above.
- (2) Apply specified lubricant to all pivoting and sliding contact areas of component.

LUBRICANT USAGE

ENGINE OIL

- Door Hinges—Hinge Pin and Pivot Contact Areas
- Hood Hinges—Pivot Points
- Liftgate Hinges
- Trunk Lid Hinges

MOPAR® SPRAY WHITE LUBE OR EQUIVALENT

- Door Check Straps
- Liftgate Latches
- Liftgate Prop Pivots
- Ash Receiver
- Fuel Filler Door Remote Control Latch Mechanism
- Parking Brake Mechanism
- Sliding Seat Tracks
- Trunk Latch

MOPAR® MULTI-PURPOSE GREASE OR EQUIVALENT

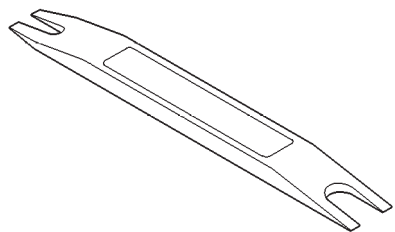
- All Other Hood Mechanisms

MOPAR® LOCK CYLINDER LUBRICANT OR EQUIVALENT

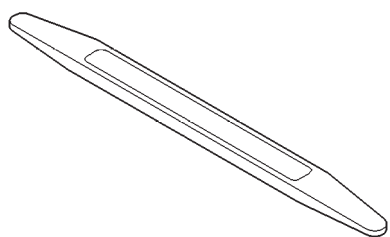
- Door Lock Cylinders
- Trunk Lock Cylinder

SPECIAL TOOLS

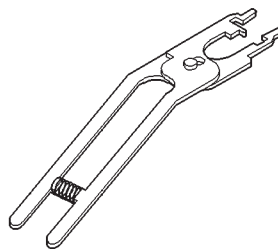
BODY



Remover, Moldings C-4829



Stick, Trim C-4755



Pliers, Headliner Clip C-6967

BODY COMPONENTS—LH/CP BODY

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GENERAL INFORMATION

GENERAL INFORMATION

The LH and CP vehicles share many of the same body components. This section covers component service that is different from the procedures described in the LH/D-L-X vehicle section.

REMOVAL AND INSTALLATION

GRILLE

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove radiator closure panel sight shield.
- (3) Remove screws holding top of grille to headlamp modules (Fig. 1).
- (4) Disengage clips holding bottom of grille to headlamp modules.
- (5) Separate grille from vehicle.

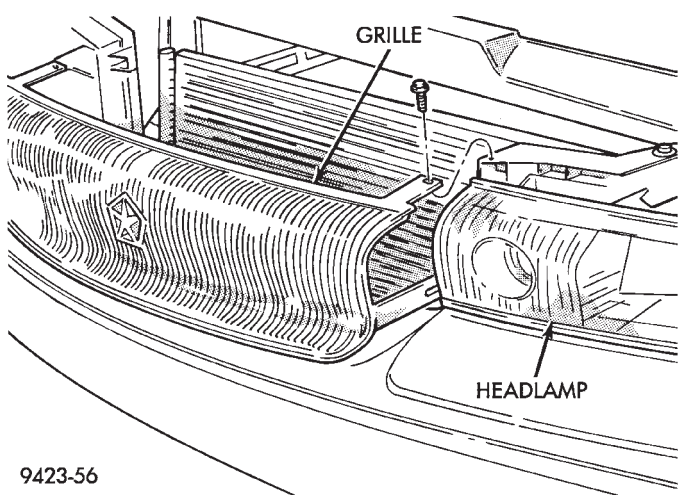


Fig. 1 Grille

INSTALLATION

- (1) Position grille on vehicle and engage clips holding bottom of grille to headlamp modules.
- (2) Install screws holding top of grille to headlamp modules.
- (3) Install radiator closure panel sight shield.

RADIATOR CLOSURE PANEL SIGHT SHIELD

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove screws holding sight shield to radiator closure panel (Fig. 2).
- (3) Remove screws holding sight shield to headlamp modules.
- (4) Remove screws holding sight shield to grille.
- (5) Separate sight shield from vehicle.

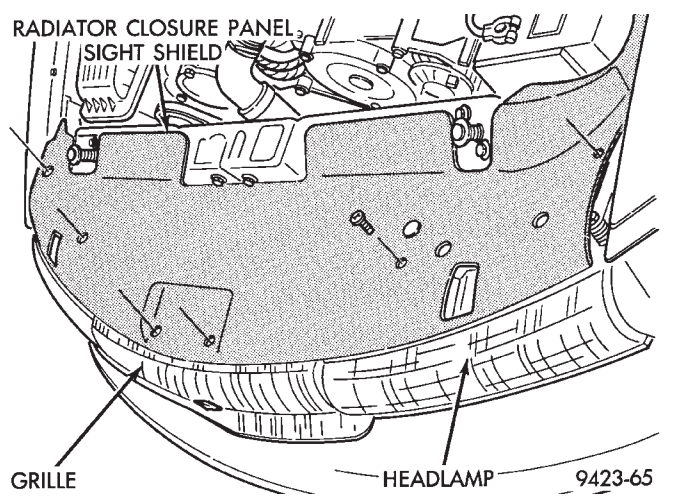


Fig. 2 Radiator Closure Panel Sight Shield

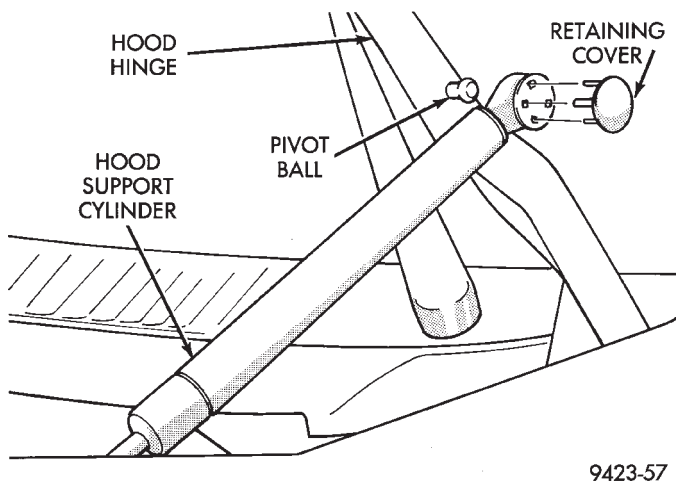
INSTALLATION

- (1) Place sight shield in position on vehicle.
- (2) Install screws to hold sight shield to grille.
- (3) Install screws to hold sight shield to headlamp modules.
- (4) Install screws to hold sight shield to radiator closure panel.

REMOVAL AND INSTALLATION (Continued)

HOOD SUPPORT CYLINDER**REMOVAL**

- (1) Release hood latch and open hood.
- (2) Using a small screw driver, pry retaining cover from end of hood support cylinder (Fig. 3).
- (3) Support hood on a suitable lifting device.
- (4) Pull hood support cylinder from pivot balls on hood hinge.
- (5) Separate hood support cylinder from vehicle.

**Fig. 3 Hood Support Cylinder****INSTALLATION**

Reverse the preceding operation.

TRUNK LATCH**REMOVAL**

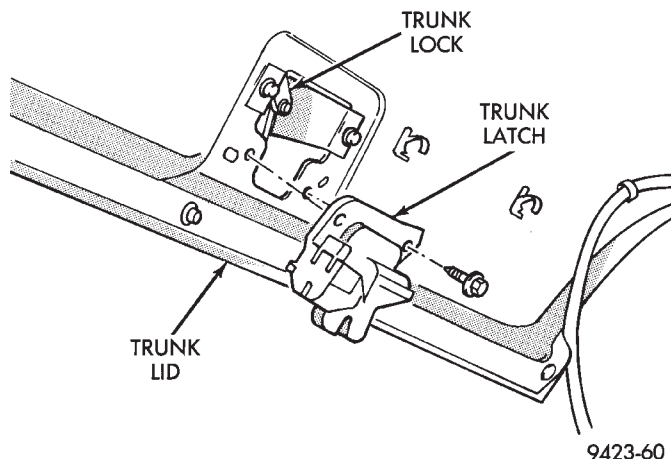
- (1) Release trunk latch and open trunk.
- (2) Mark outline of latch on inside of trunk lid to aid installation.
- (3) Remove bolts holding latch to trunk lid (Fig. 4).
- (4) Disengage wire connectors from trunk latch.
- (5) Disengage clip holding trunk lock rod to latch.
- (6) Separate lock rod from latch.
- (7) Separate latch from vehicle.

INSTALLATION

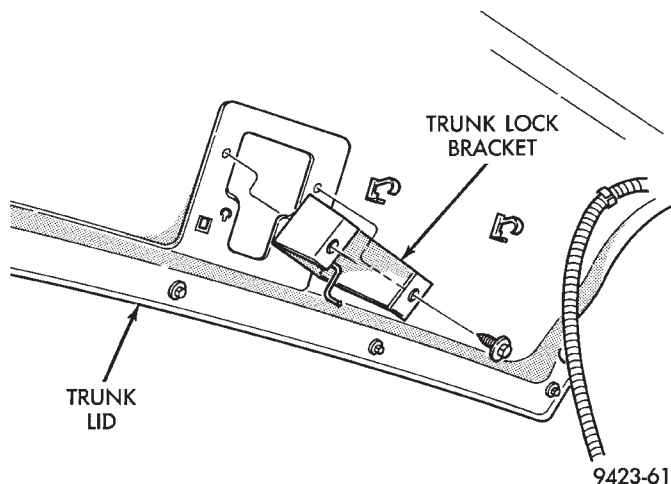
- (1) Insert trunk lock rod into clip on latch.
- (2) Engage clip to hold trunk lock rod to latch.
- (3) Engage wire connectors onto trunk latch.
- (4) Place trunk latch in position and start bolts.
- (5) Align latch to outline marks on inside of trunk lid.
- (6) Tighten bolts to hold latch to trunk lid.
- (7) Verify trunk latch operation.

TRUNK LOCK BRACKET**REMOVAL**

- (1) Remove trunk latch.

**Fig. 4 Trunk Latch**

- (2) Remove bolts holding trunk lock bracket to trunk lid (Fig. 5).
- (3) Separate trunk lock bracket from vehicle.

**Fig. 5 Trunk Lock Bracket****INSTALLATION**

- (1) Place trunk lock bracket in position on trunk lid.
- (2) Install bolts to hold trunk lock bracket to trunk lid.
- (3) Install trunk latch.

TRUNK LOCK CYLINDER**REMOVAL**

- (1) Remove trunk lock bracket.
- (2) Remove clip holding lock cylinder to trunk lock bracket (Fig. 6).
- (3) Separate lock cylinder from bracket.

INSTALLATION

- (1) Insert lock cylinder into bracket.
- (2) Install clip to hold lock cylinder to trunk lock bracket.

REMOVAL AND INSTALLATION (Continued)

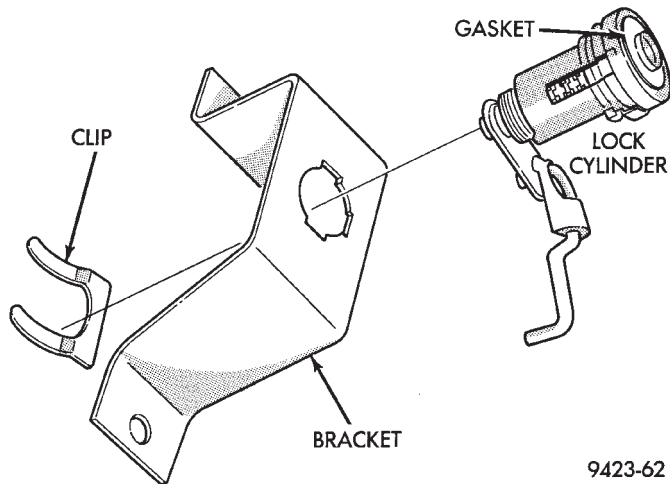


Fig. 6 Trunk Lock Cylinder

- (3) Install trunk lock bracket.

TRUNK LID APPLIQUE

REMOVAL

- (1) Release trunk latch and open trunk lid.
- (2) Remove nuts holding applique to trunk lid (Fig. 7).
- (3) Separate applique from trunk lid.

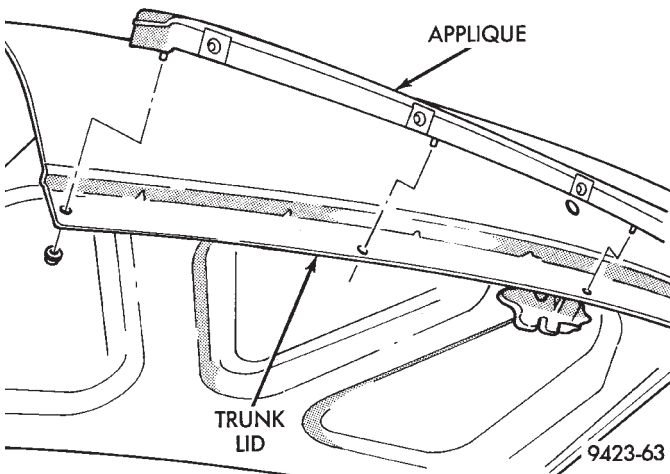


Fig. 7 Trunk Lid Applique

INSTALLATION

- (1) Place applique in position on trunk lid.
- (2) Install nuts to hold applique to trunk lid.

TRUNK LID APPLIQUE MOLDING

REMOVAL

- (1) Release trunk latch and open trunk.
- (2) Remove screws holding molding to applique (Fig. 8).
- (3) Separate molding from applique.

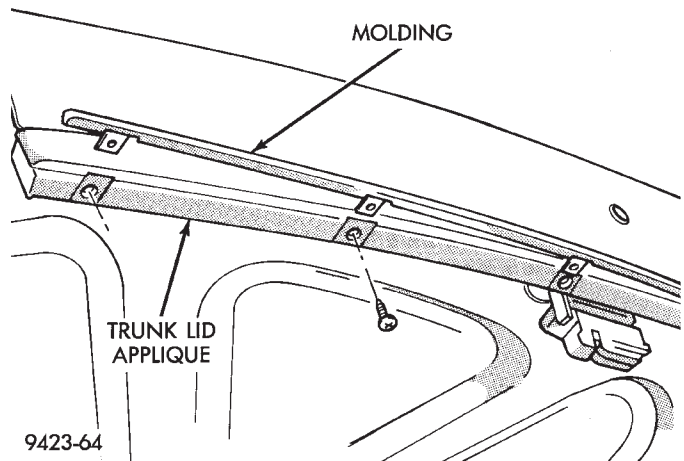


Fig. 8 Trunk Lid Applique Molding

INSTALLATION

- (1) Place molding in position on applique.
- (2) Install screws to hold molding to applique.

REAR DECK UPPER PANEL

REMOVAL

- (1) Release trunk latch and open trunk.
- (2) Remove fasteners holding rear deck upper panel to rear deck panel.
- (3) Disengage CHMSL wire connector from rear body harness.
- (4) Push wiring grommet through hole in deck panel.
- (5) Disengage clips holding upper deck panel to rear deck below rear window.
- (6) Separate rear deck upper panel from vehicle.

INSTALLATION

- (1) Place rear deck upper panel in position on vehicle.
- (2) Engage clips to hold upper deck panel to rear deck below rear window.
- (3) Install wiring grommet in hole in deck panel.
- (4) Engage CHMSL wire connector into rear body harness.
- (5) Install fasteners to hold rear deck upper panel to rear deck panel.

