BODY

TABLE OF CONTENTS

BODY

WARNING

SAFETY PRECAUTIONS AND WARNINGS

WARNING: USE AN 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.**

BODY (Continued)

DIAGNOSIS AND TESTING

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.

BODY (Continued)

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 - 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 cross winds. 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.

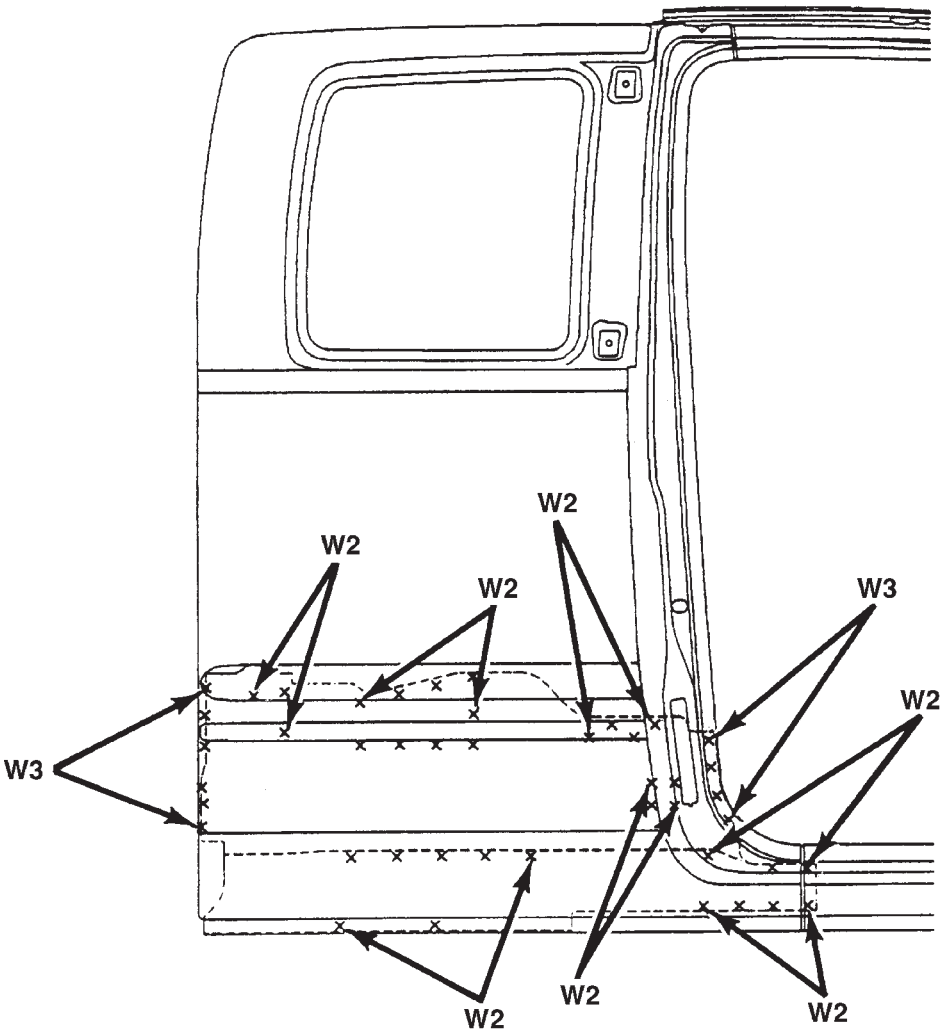
POSSIBLE CAUSE OF WIND NOISE

- 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.

BODY (Continued)

SPECIFICATIONS

WELD LOCATIONS



W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

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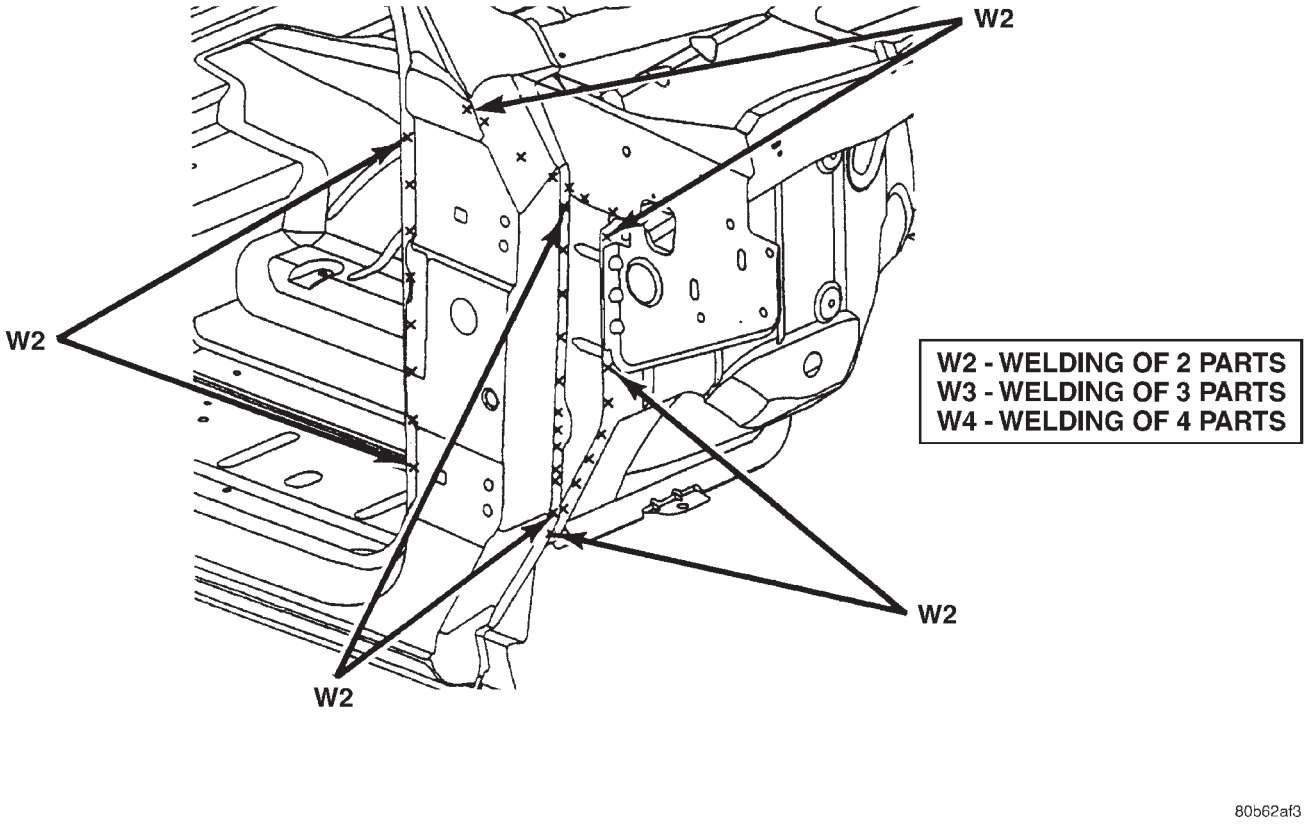
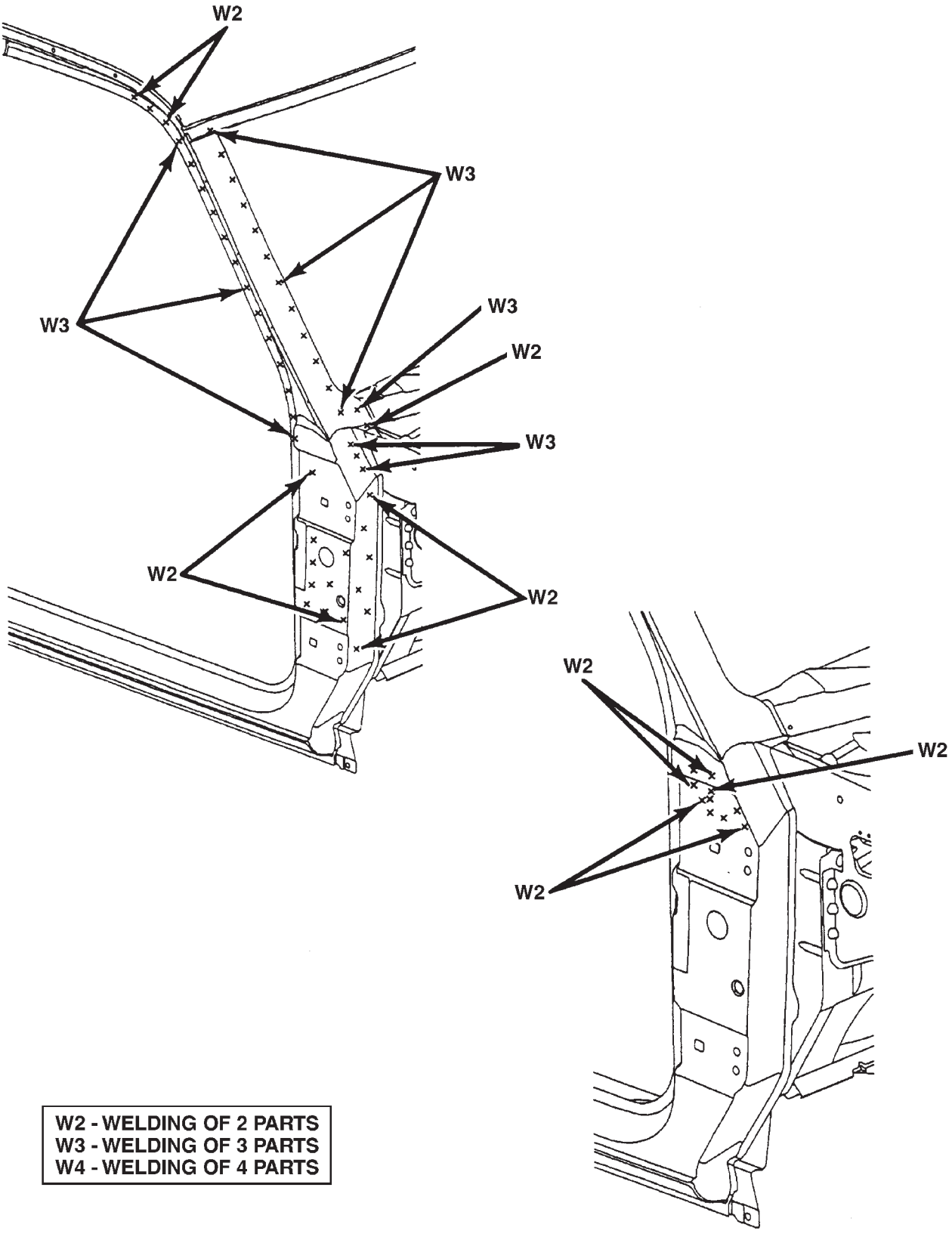
BODY SIDE APERTURE — CLUB CAB

BODY (Continued)



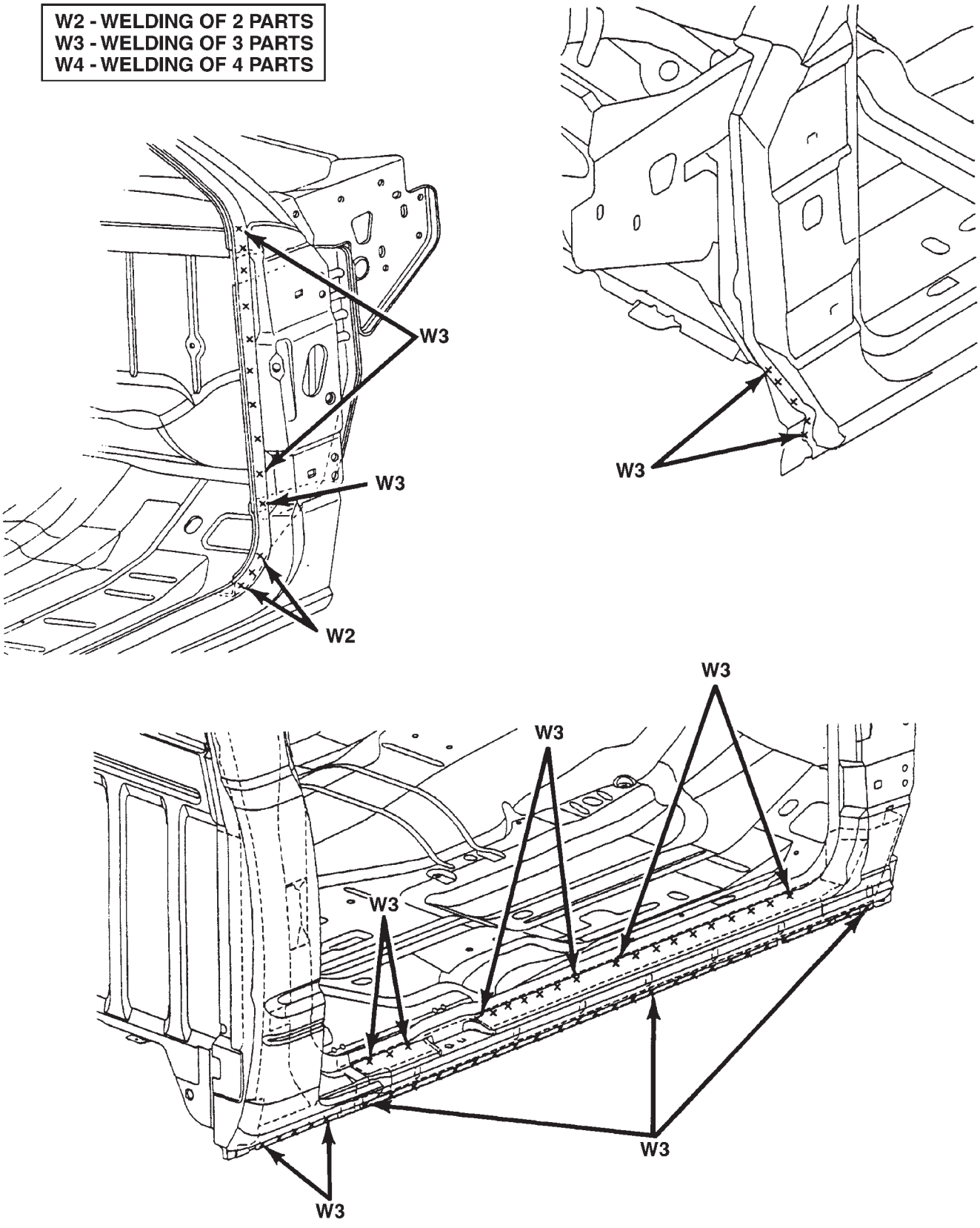
BODY SIDE APERTURE — QUAD CAB

BODY (Continued)



BODY SIDE APERTURE — QUAD CAB

BODY (Continued)



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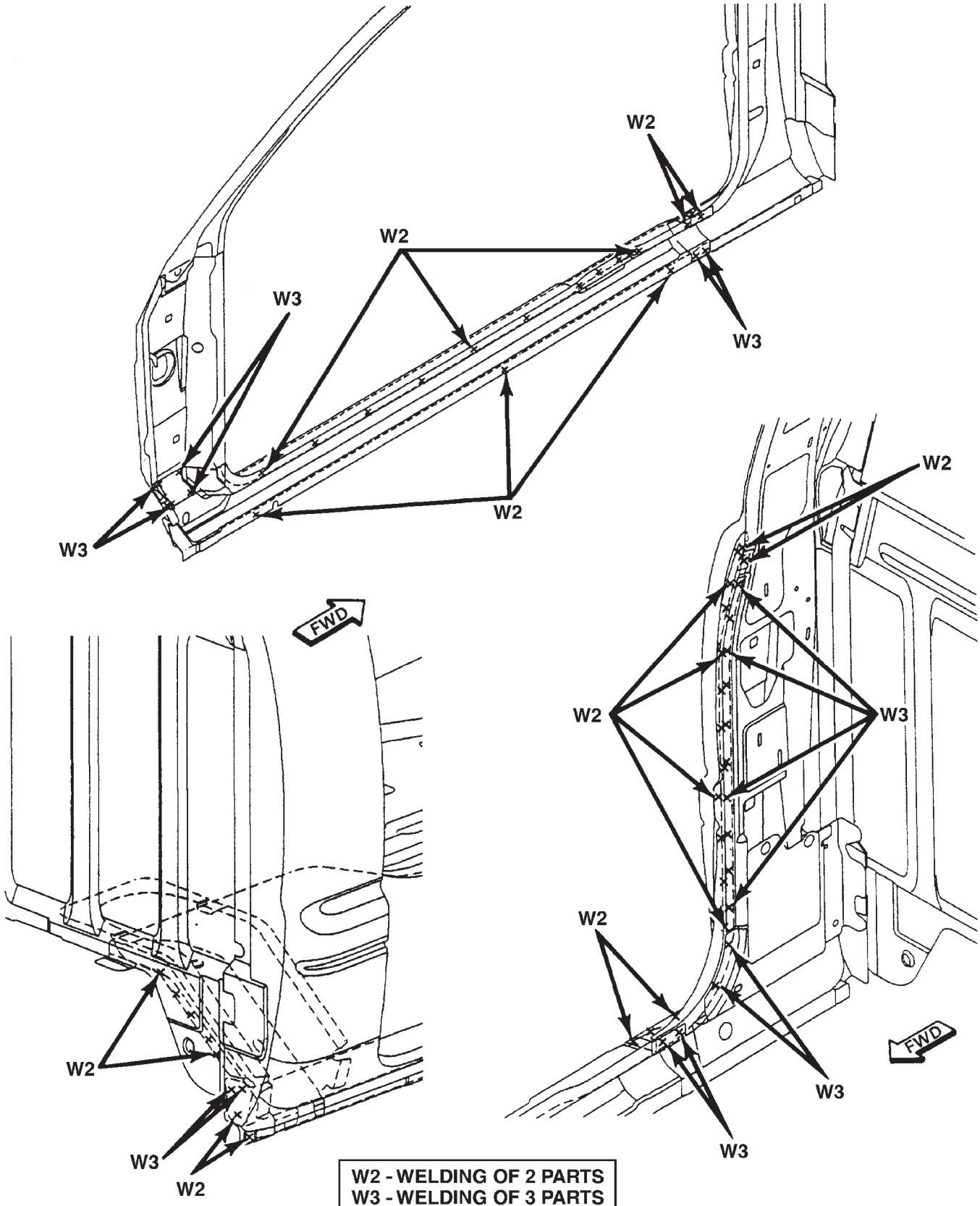

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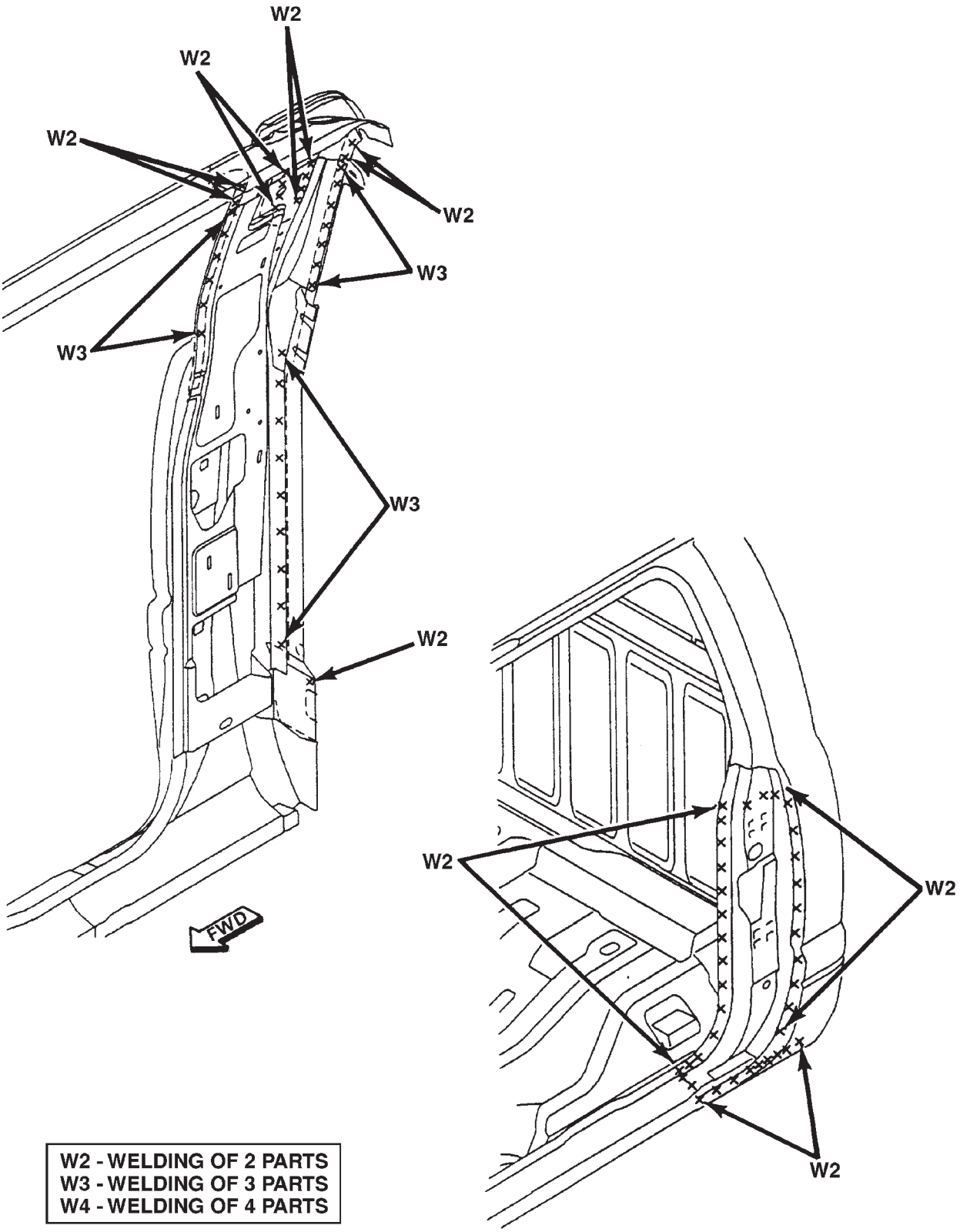

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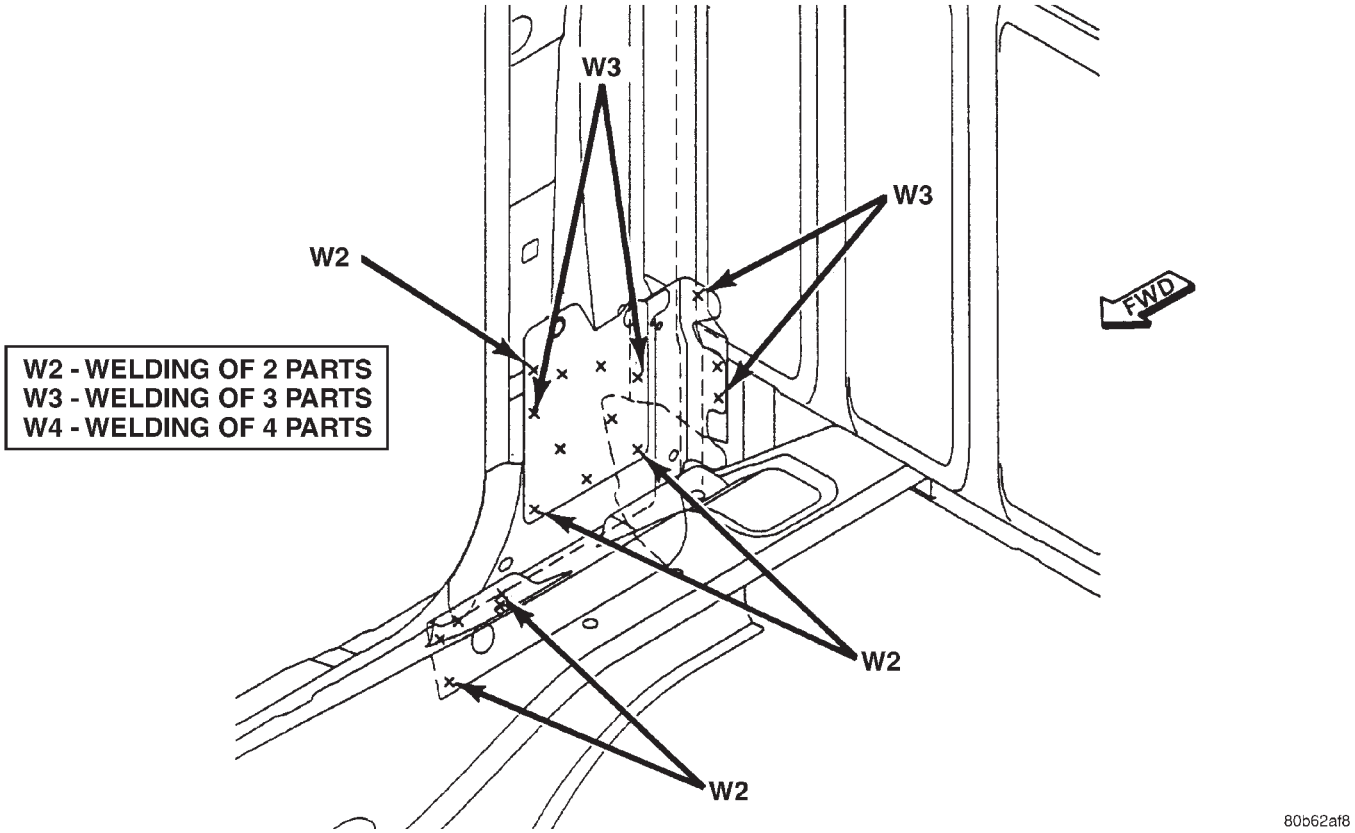
BODY SIDE APERTURE — QUAD CAB

BODY (Continued)



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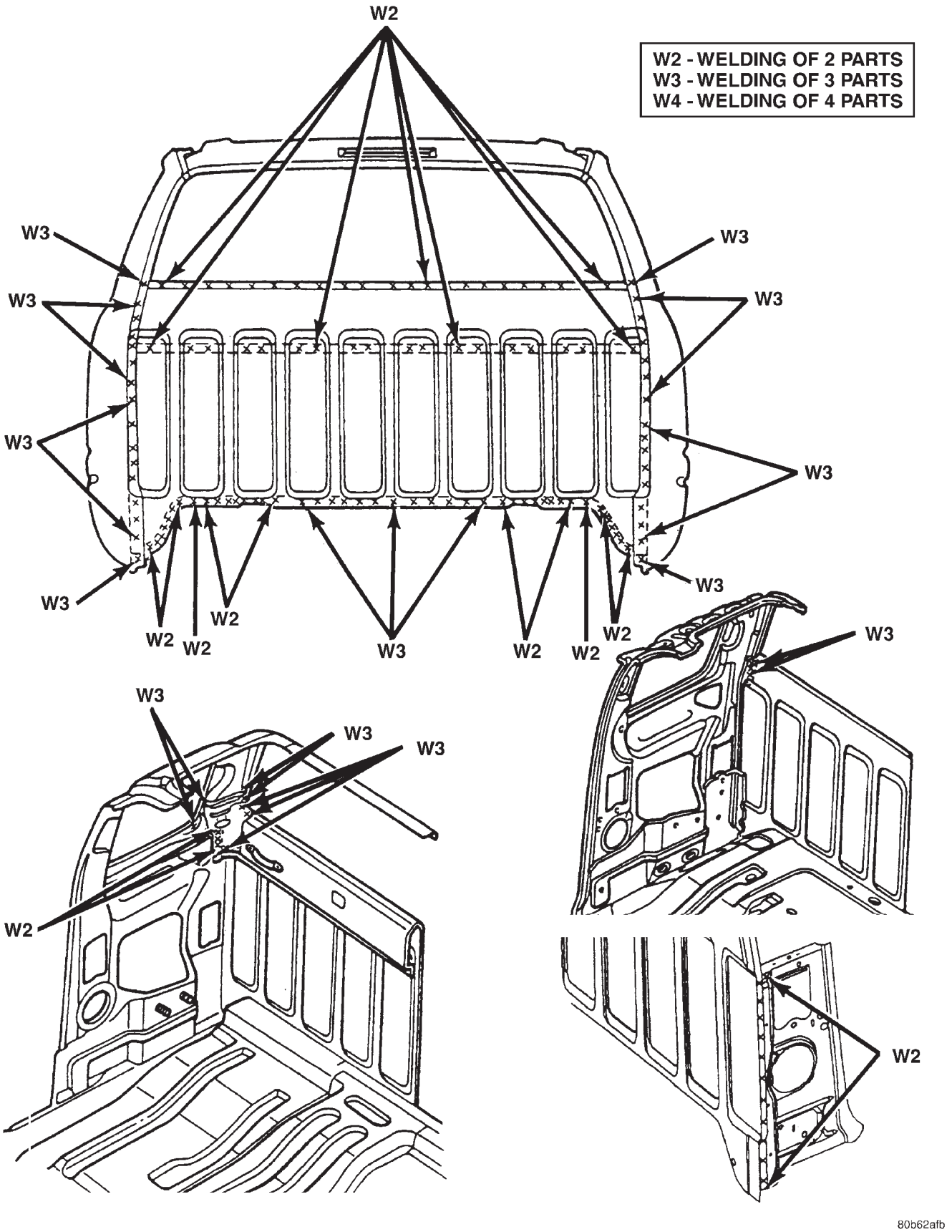
BODY (Continued)



CAB BACK PANEL — CLUB CAB

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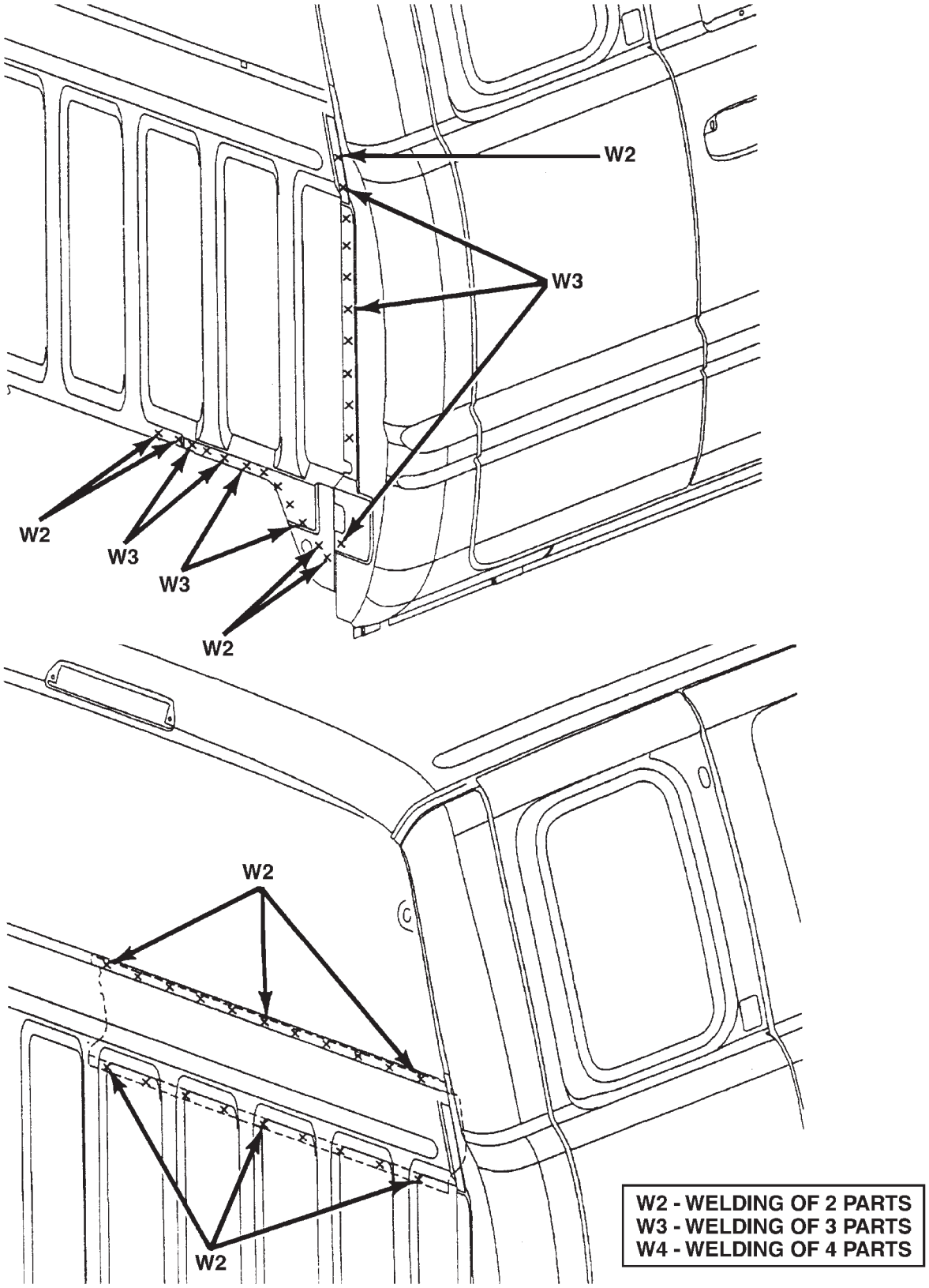
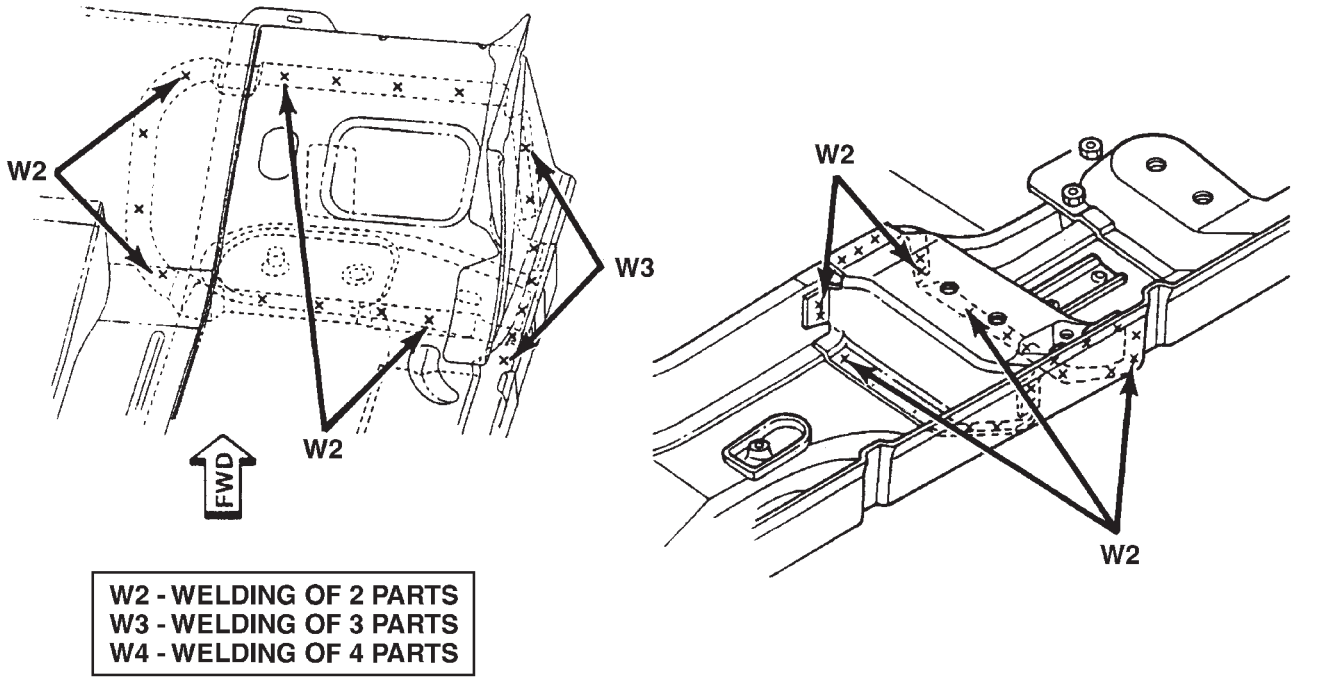


CAB BACK PANEL — QUAD CAB

BODY (Continued)



FLOOR PAN — CLUB CAB

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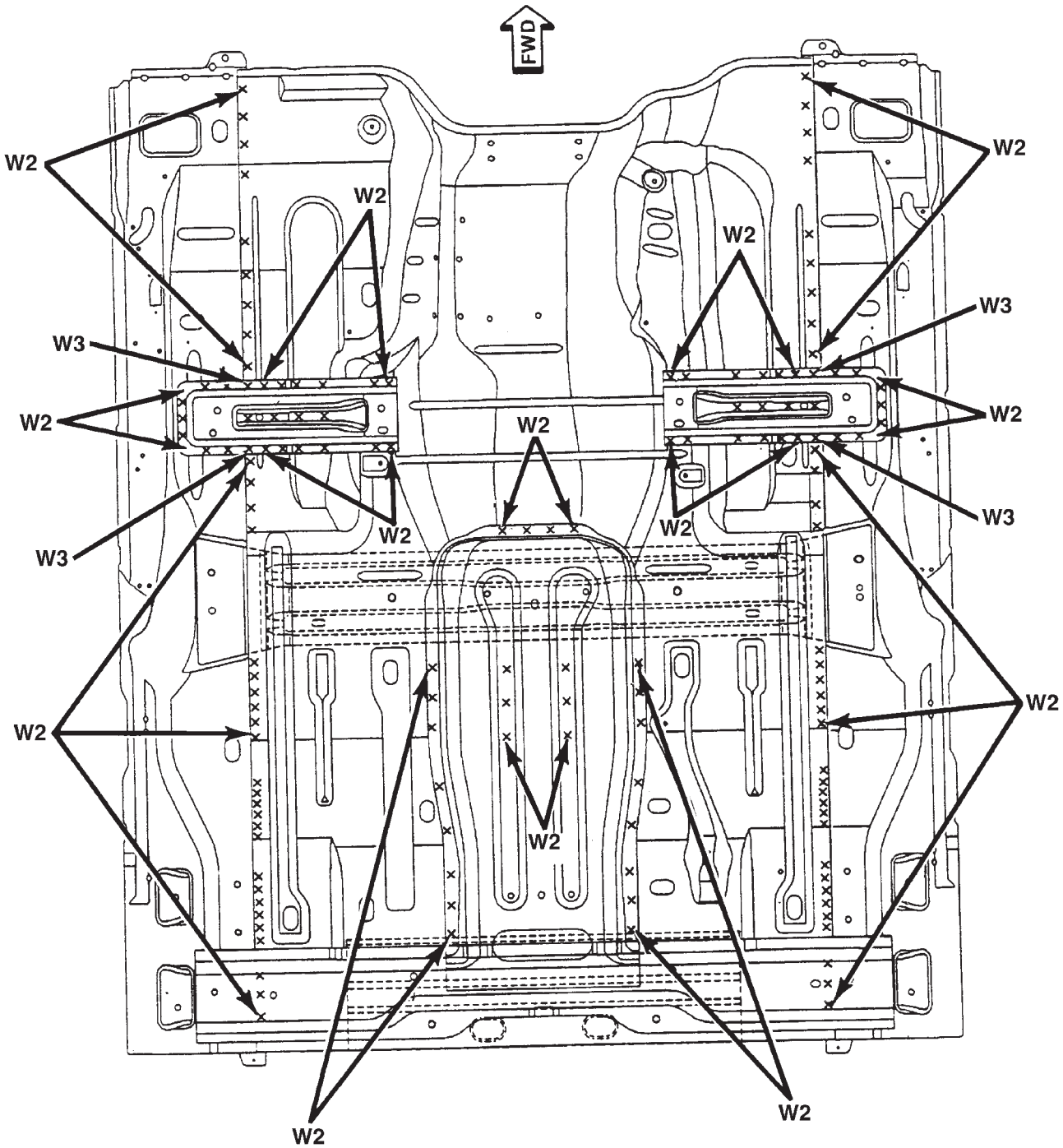

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FLOOR PAN — CLUB CAB

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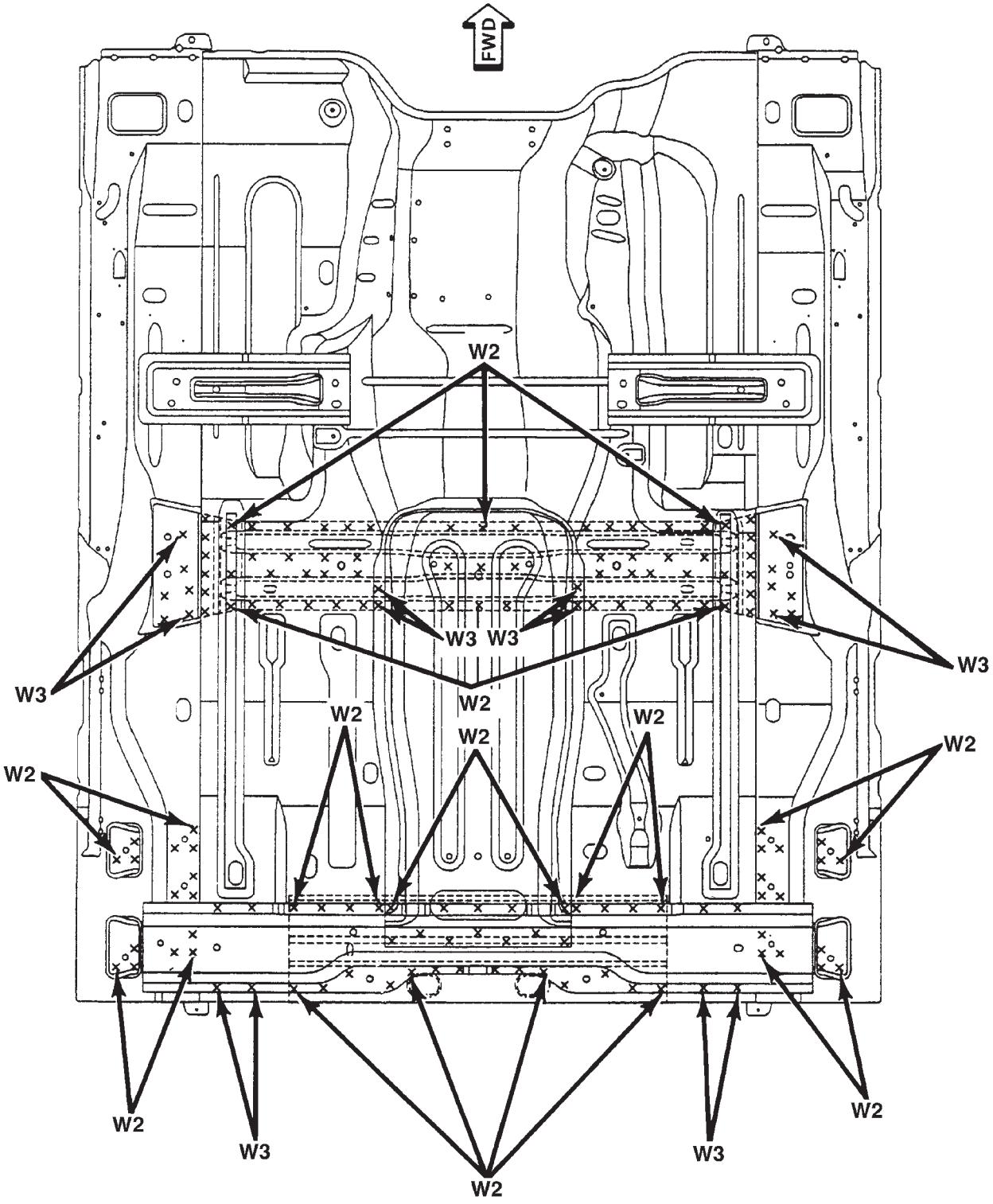

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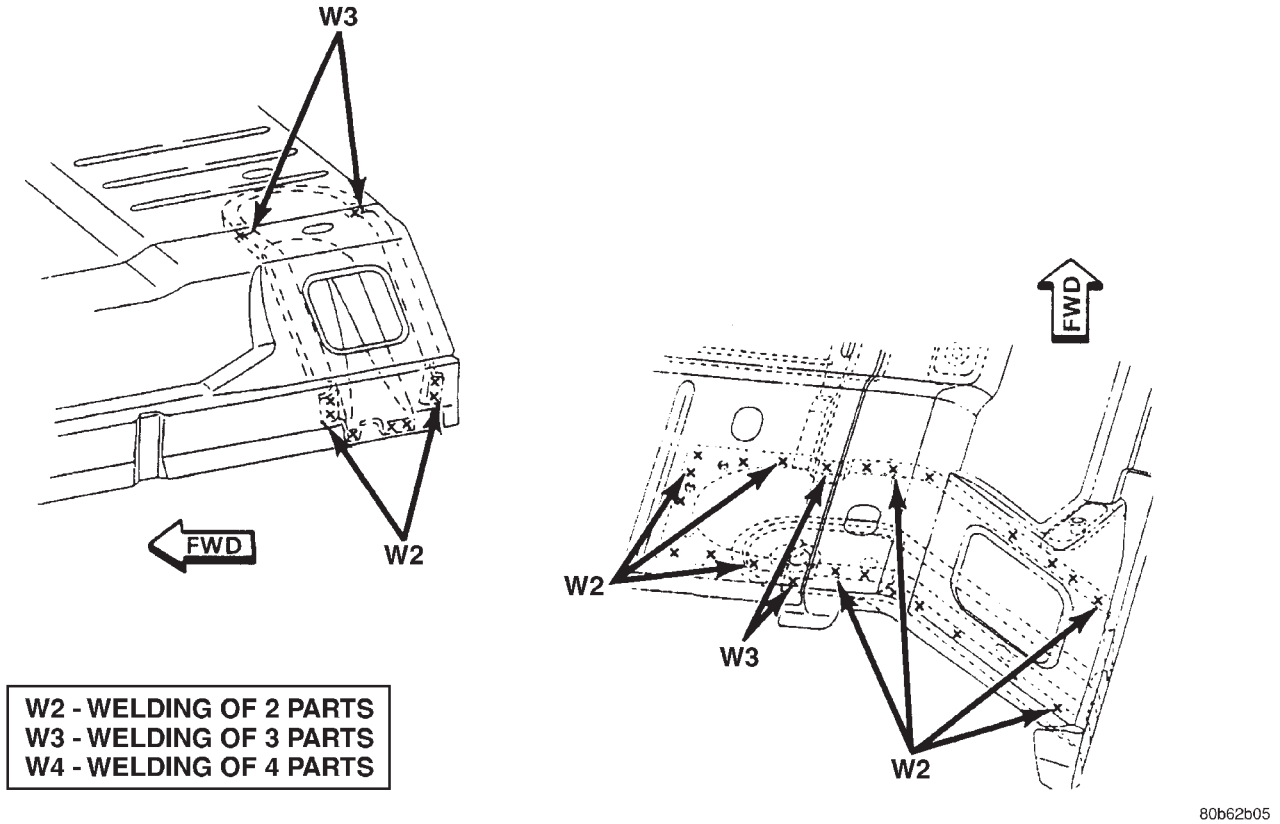

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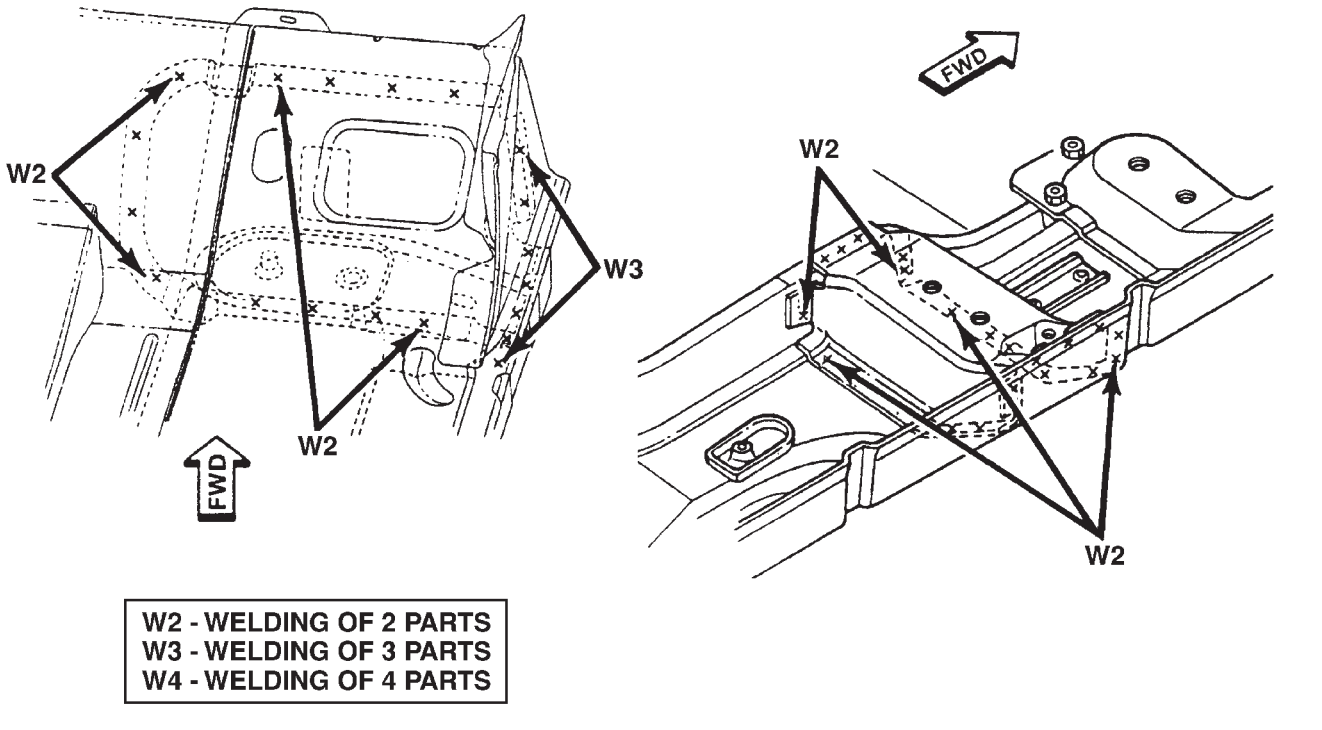
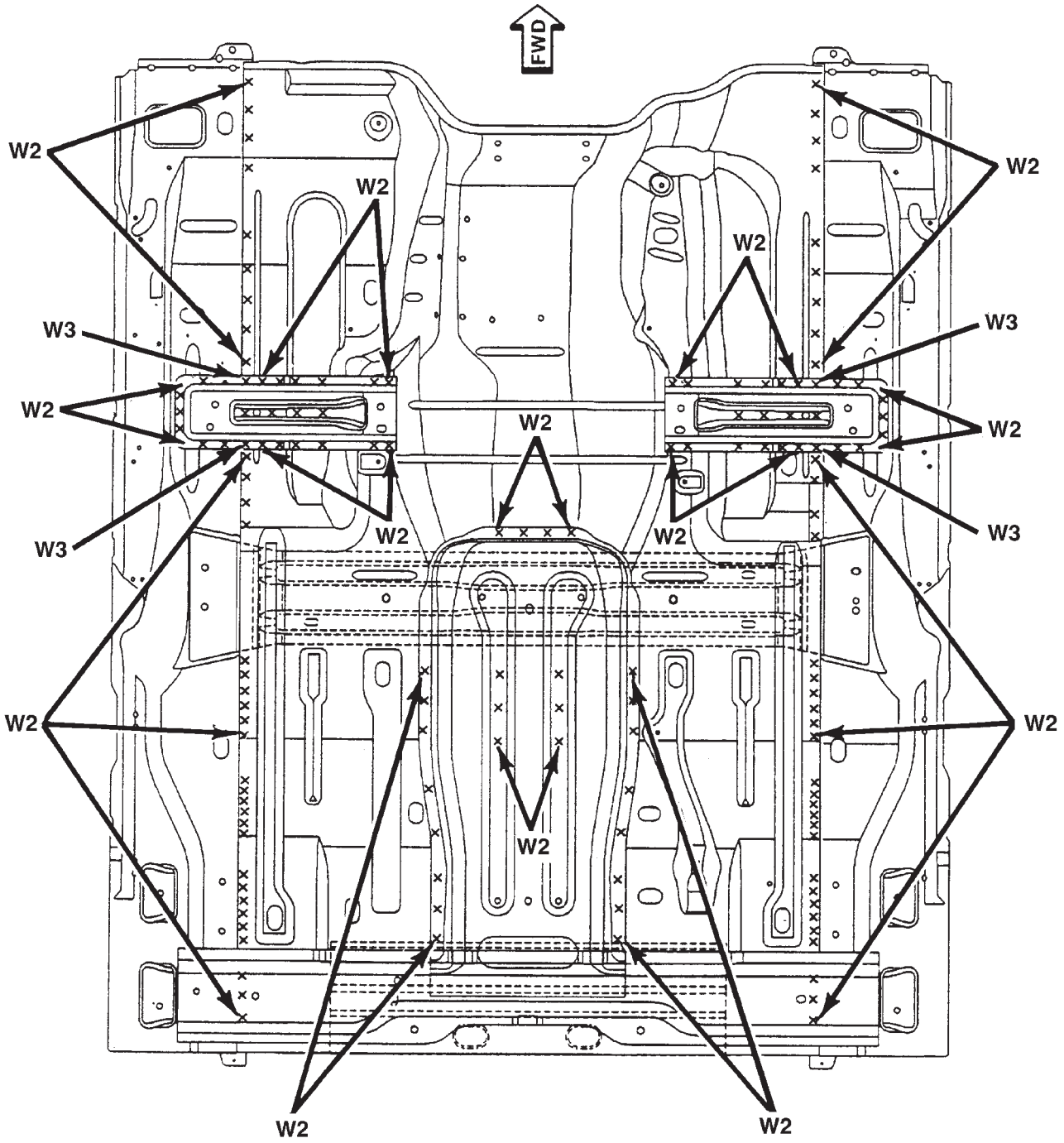


FLOOR PAN — QUAD CAB

BODY (Continued)

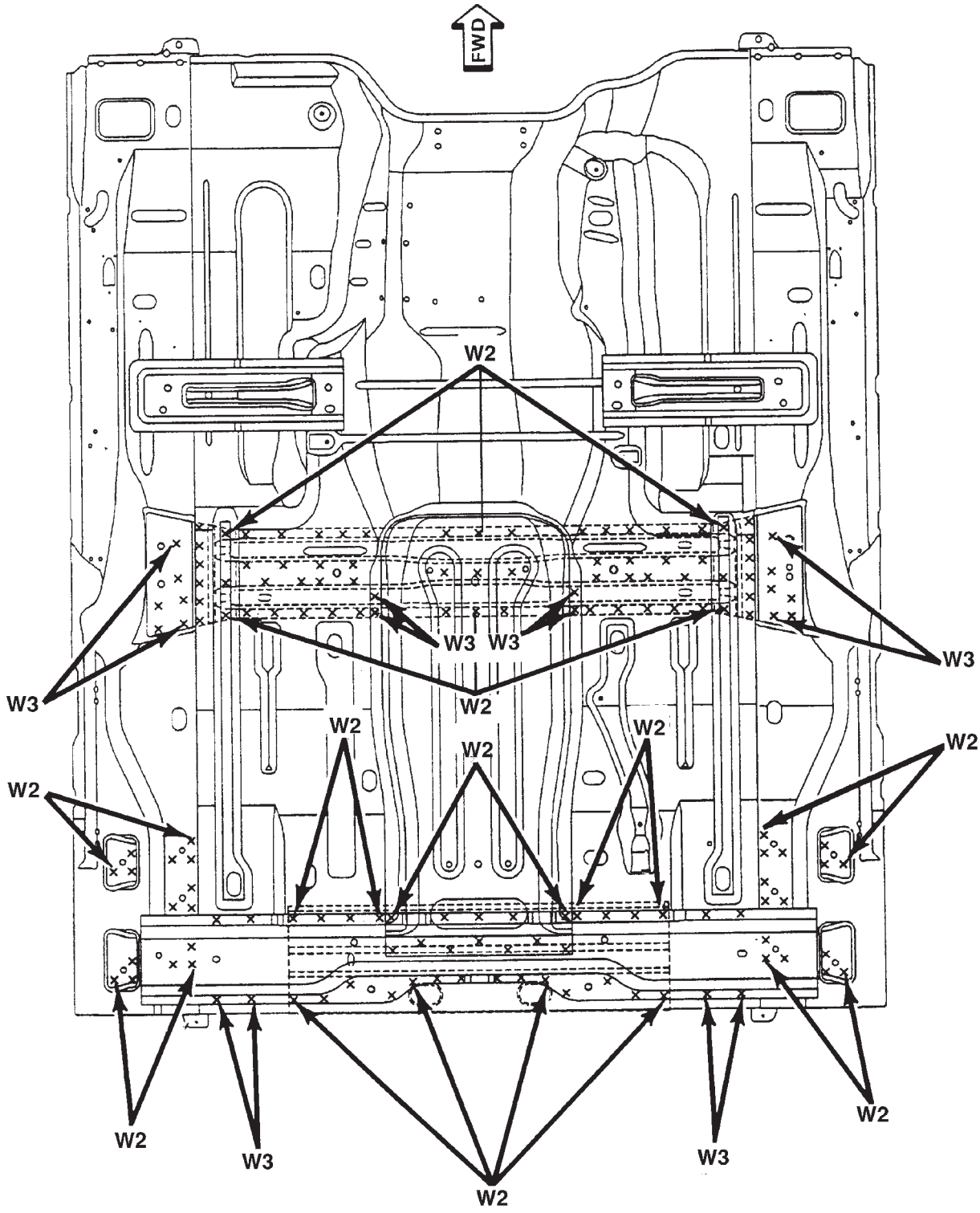


W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

80b62b07

FLOOR PAN — QUAD CAB

BODY (Continued)



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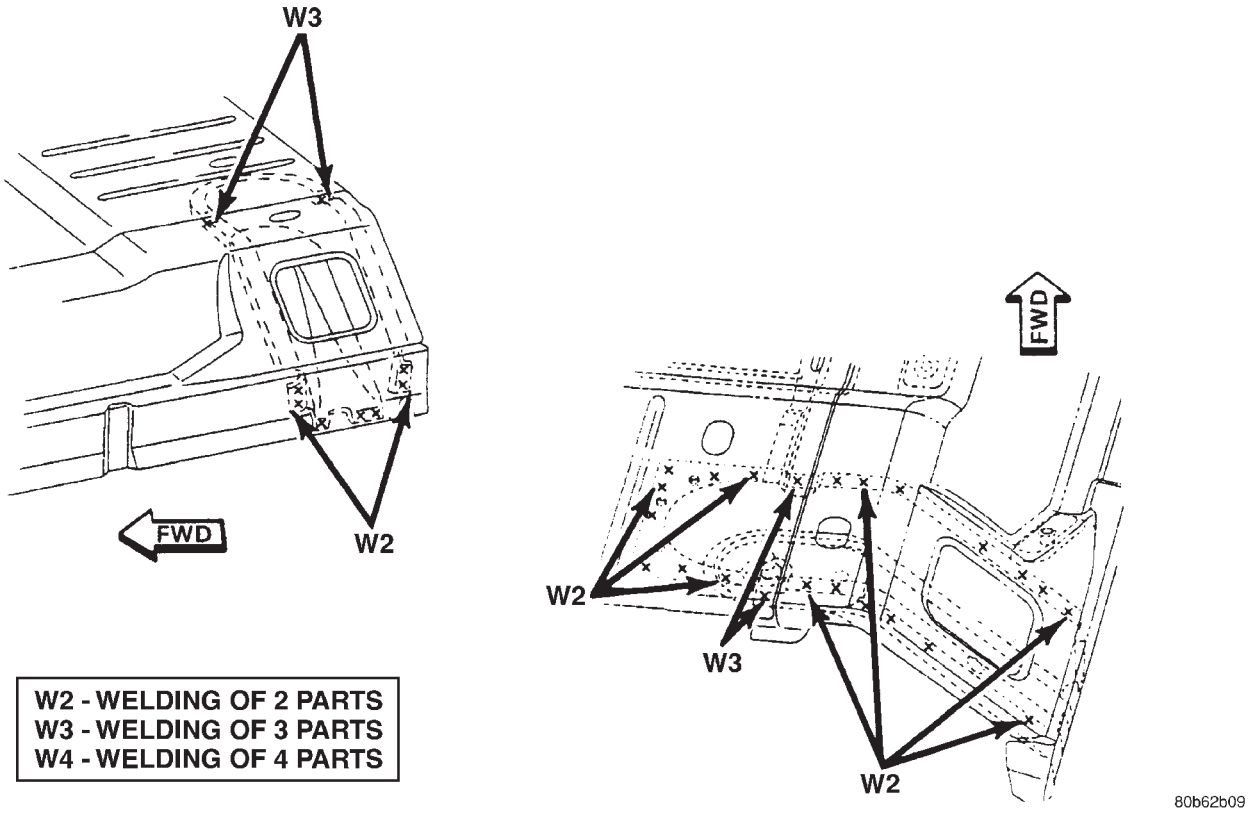
FLOOR PAN — QUAD CAB

BODY (Continued)



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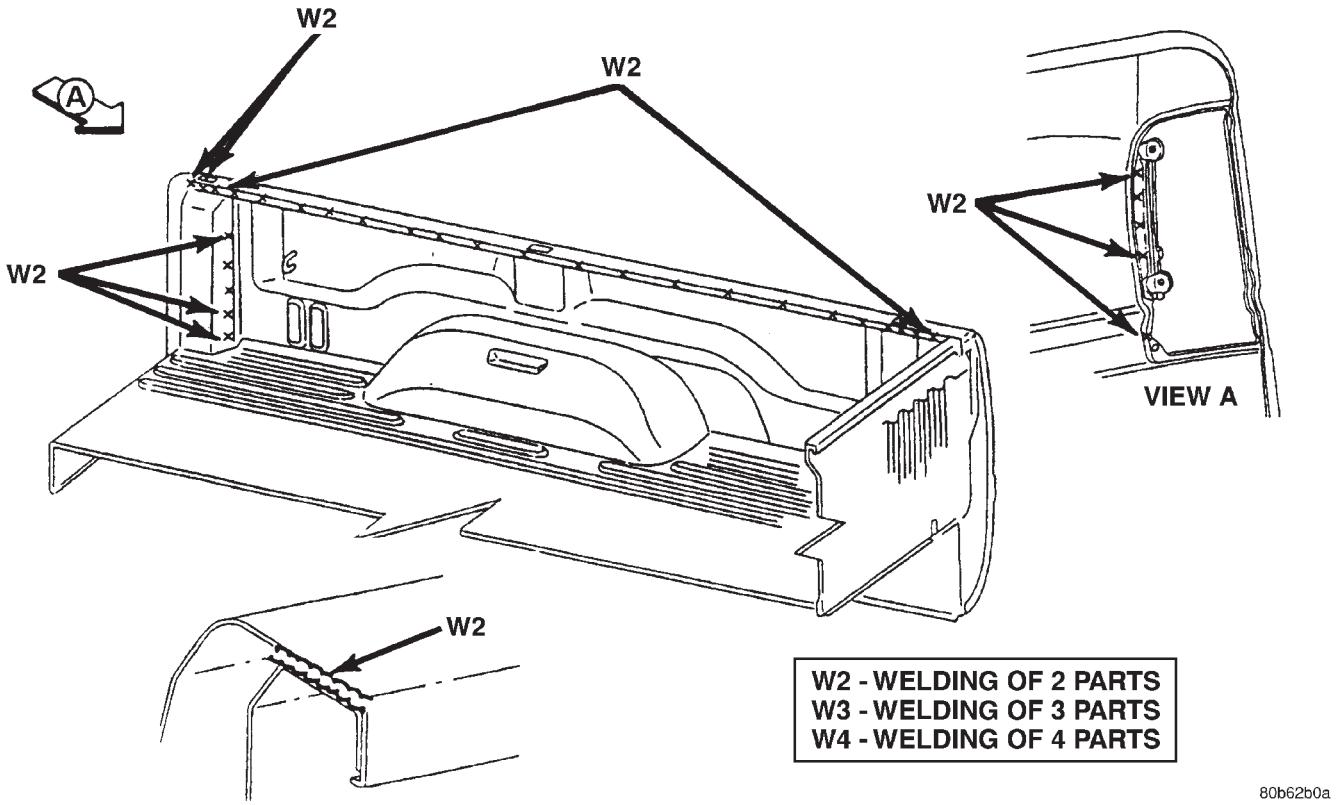
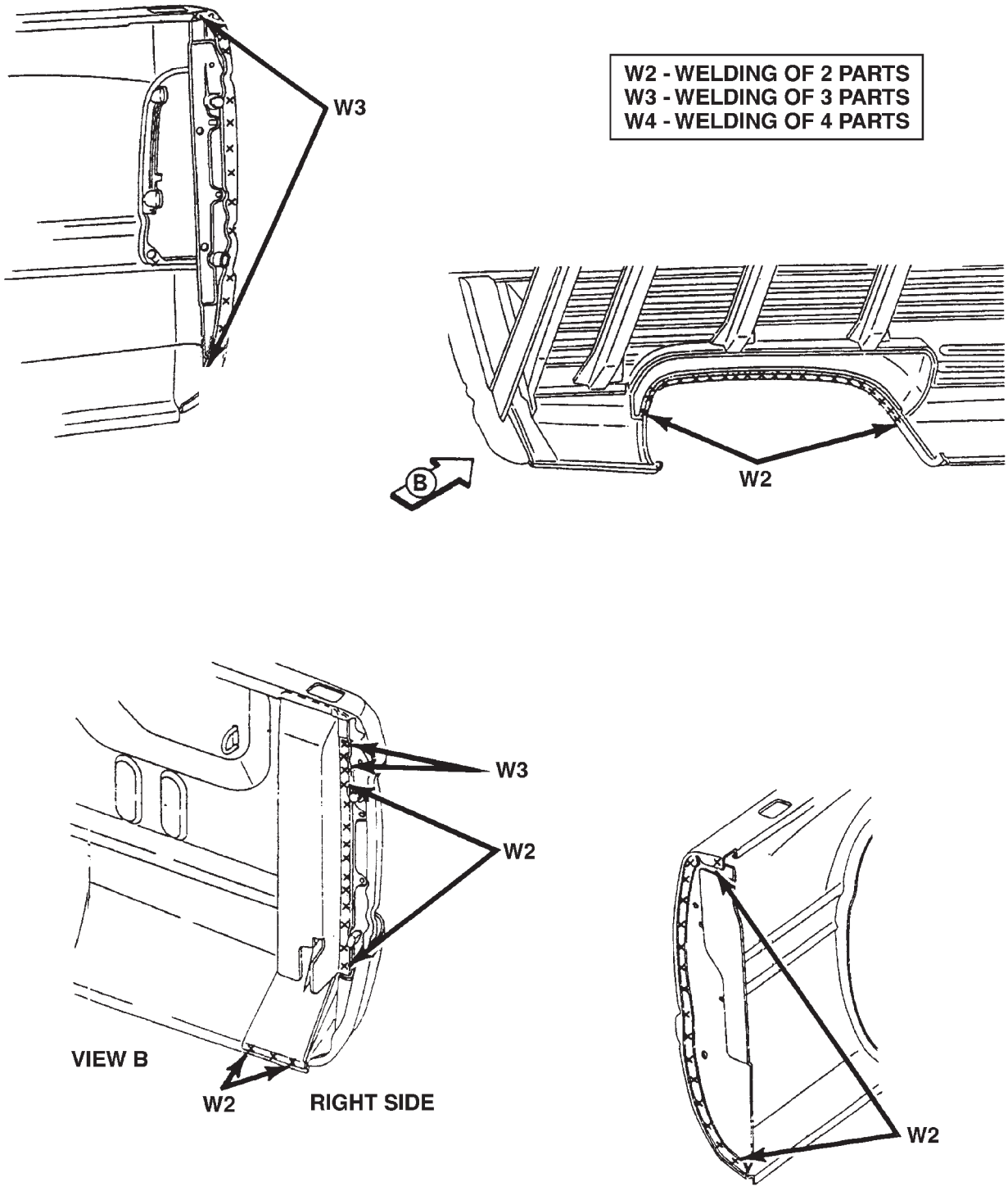


CARGO BOX OUTER SIDE PANEL

BODY (Continued)



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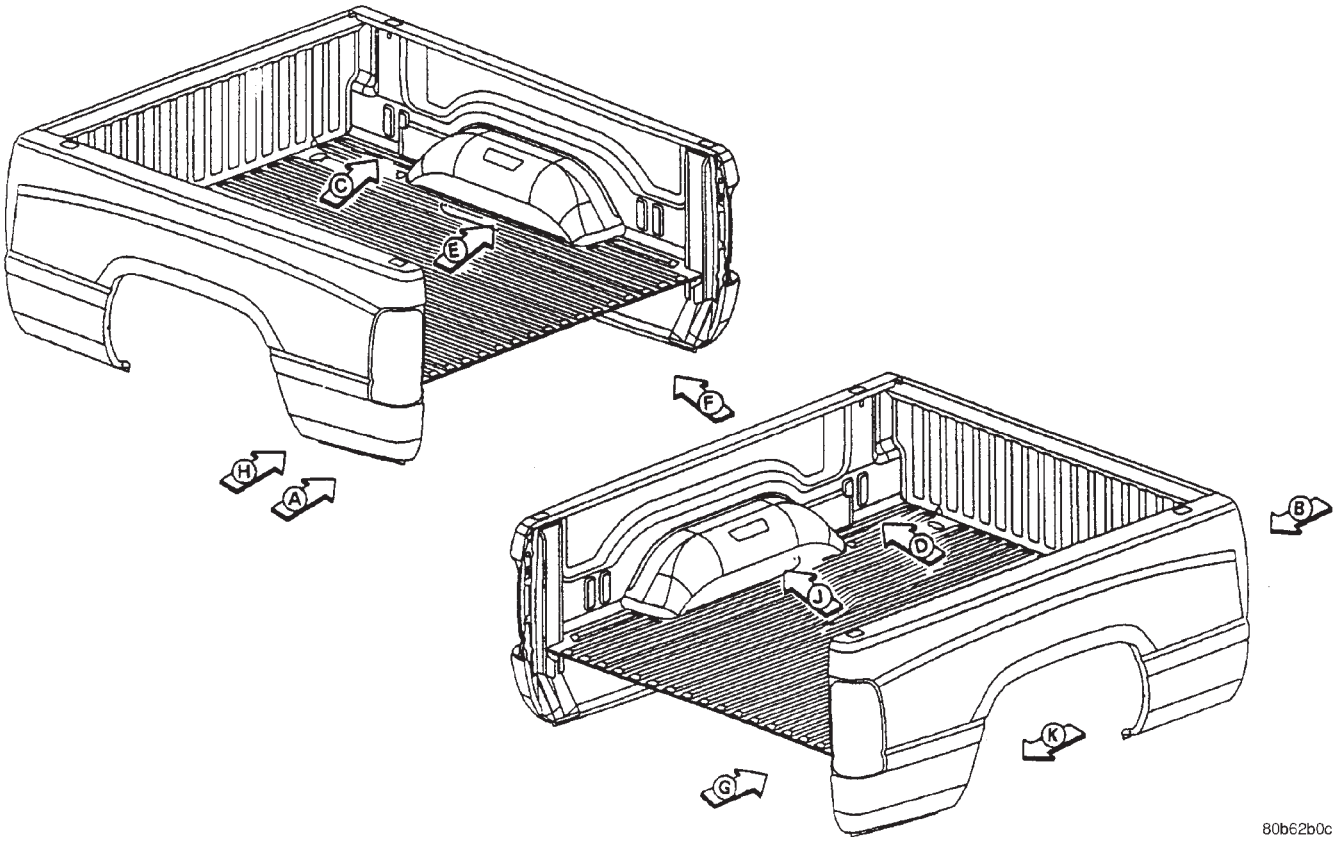
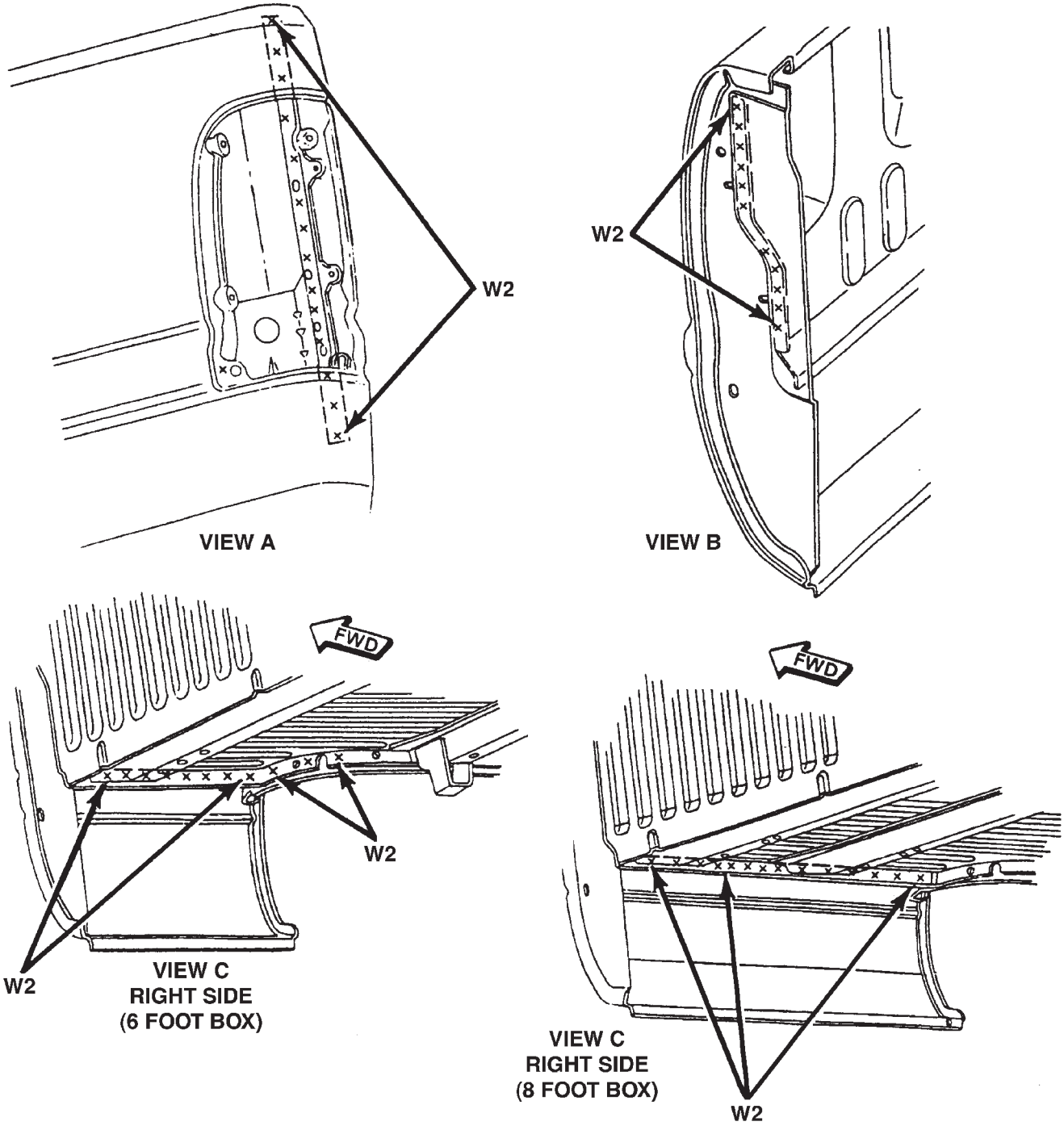
CARGO BOX OUTER SIDE PANEL

BODY (Continued)



CARGO BOX INNER SIDE PANEL

BODY (Continued)



W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

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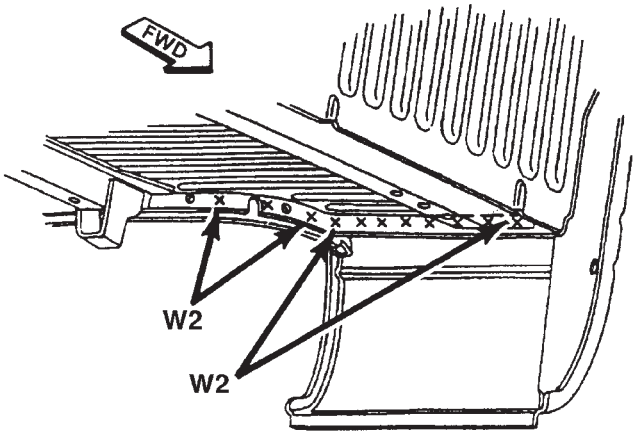
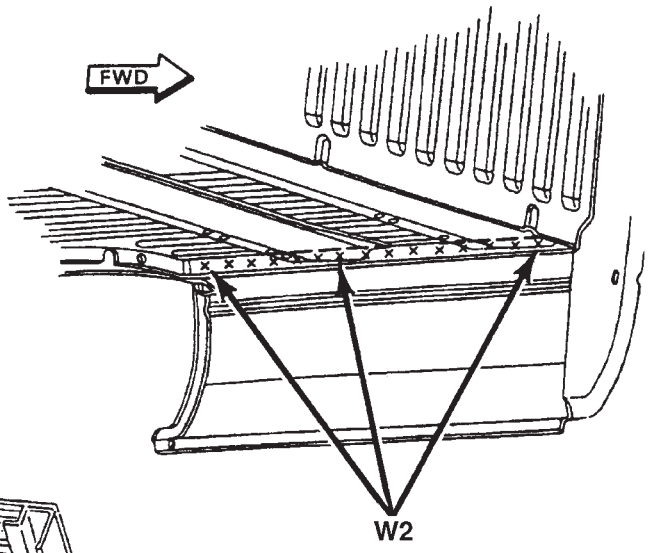
CARGO BOX INNER SIDE PANEL

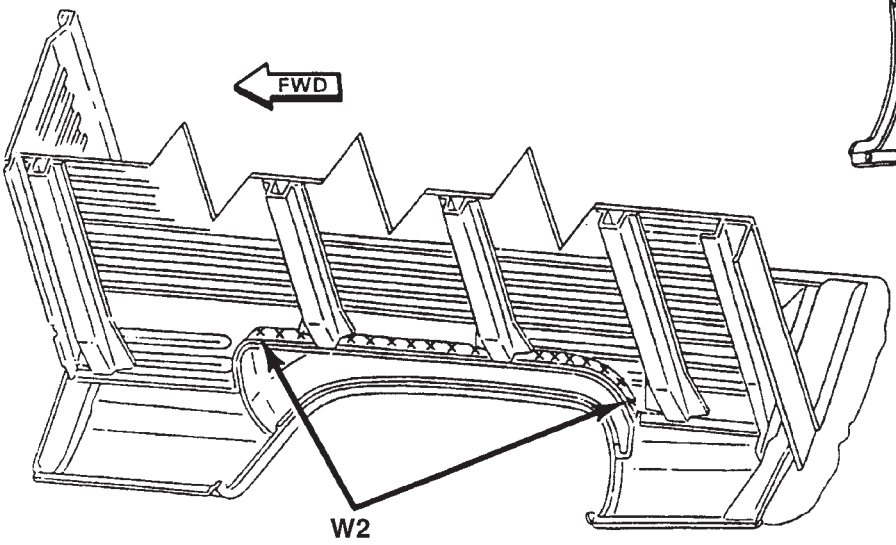
BODY (Continued)



VIEW D
LEFT SIDE
(6 FOOT BOX)

VIEW D
LEFT SIDE
(8 FOOT BOX)





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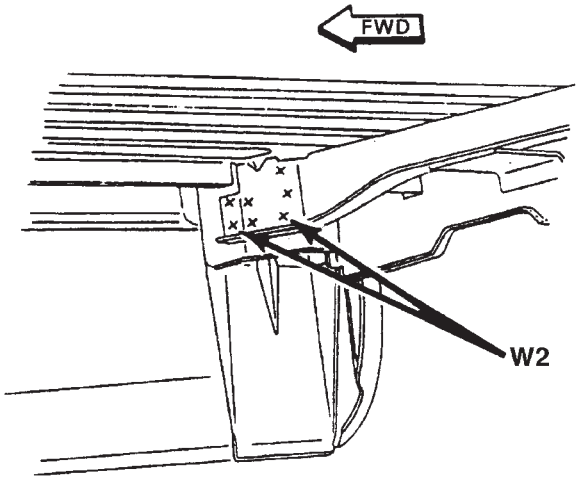


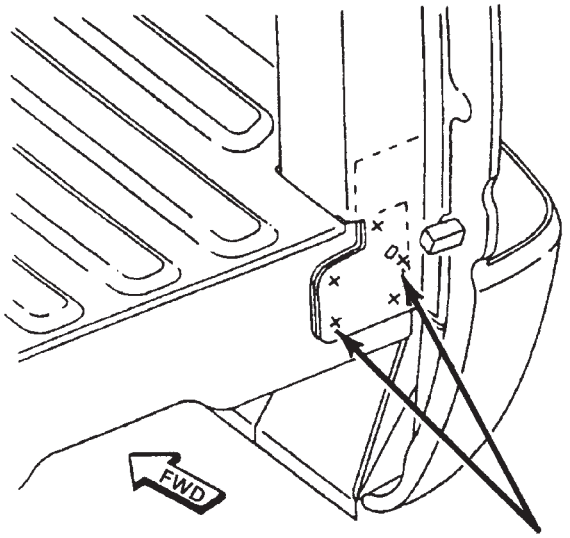
VIEW F

W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

80b62b0e

CARGO BOX INNER SIDE PANEL

BODY (Continued)



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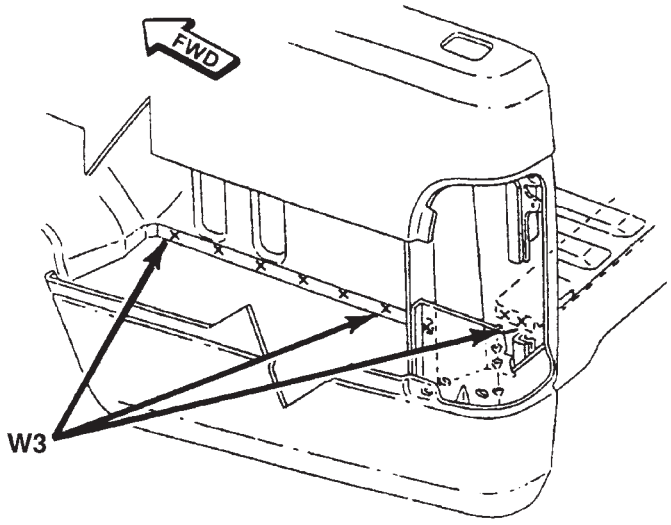

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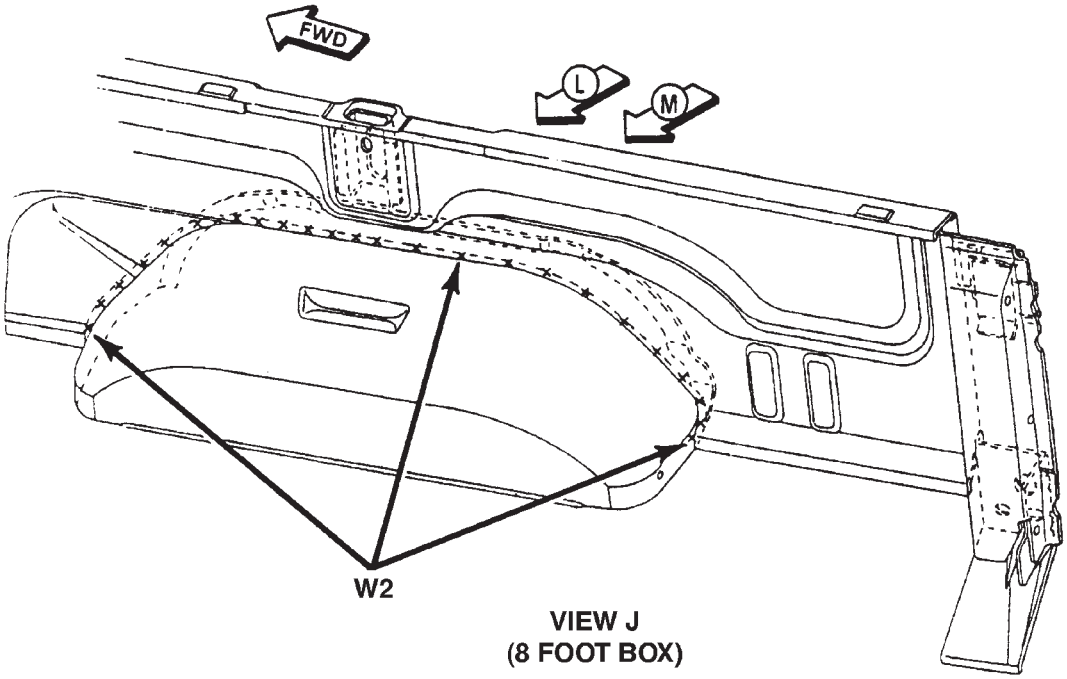

VIEW J
(8 FOOT BOX)

W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

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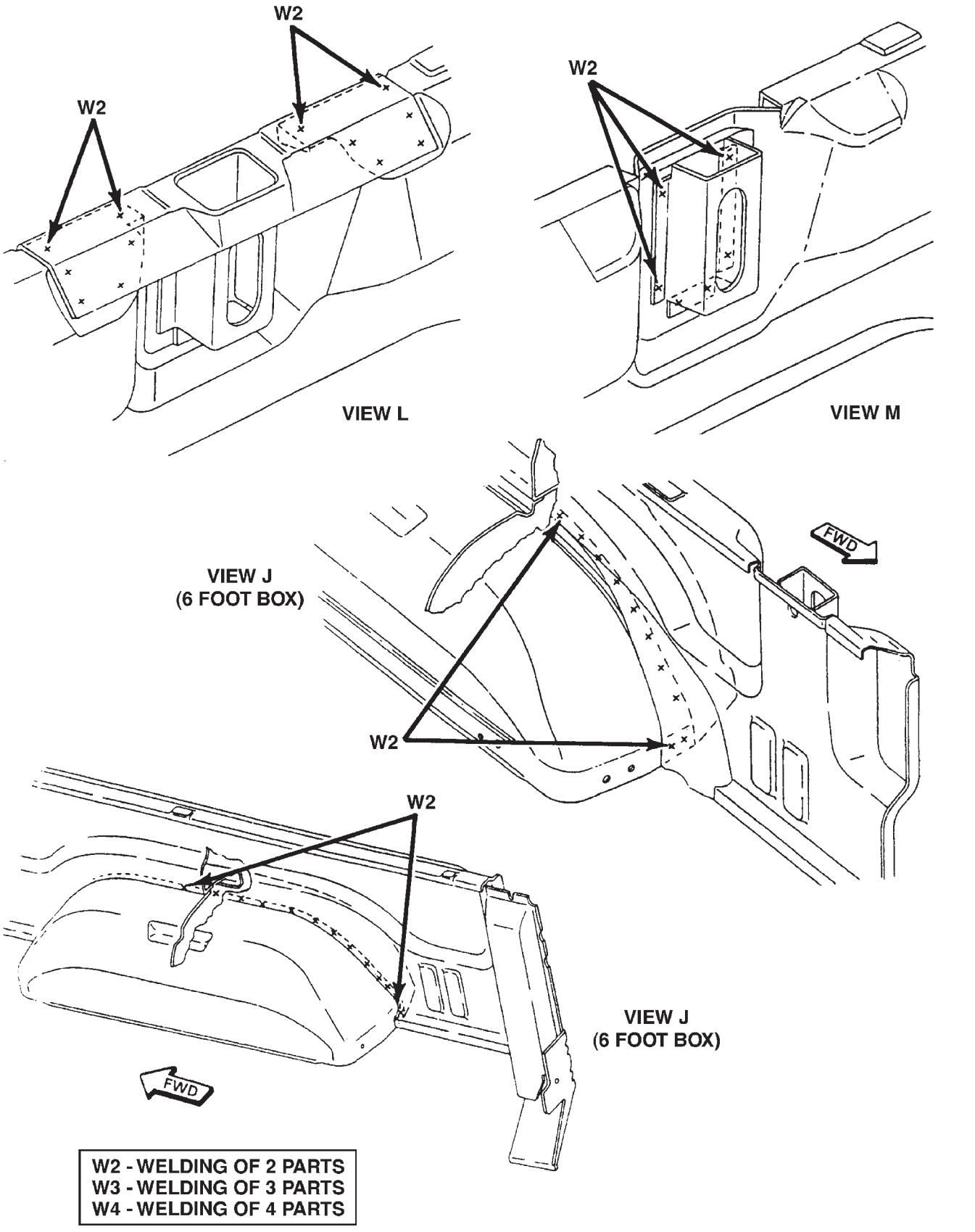
CARGO BOX INNER SIDE PANEL

BODY (Continued)



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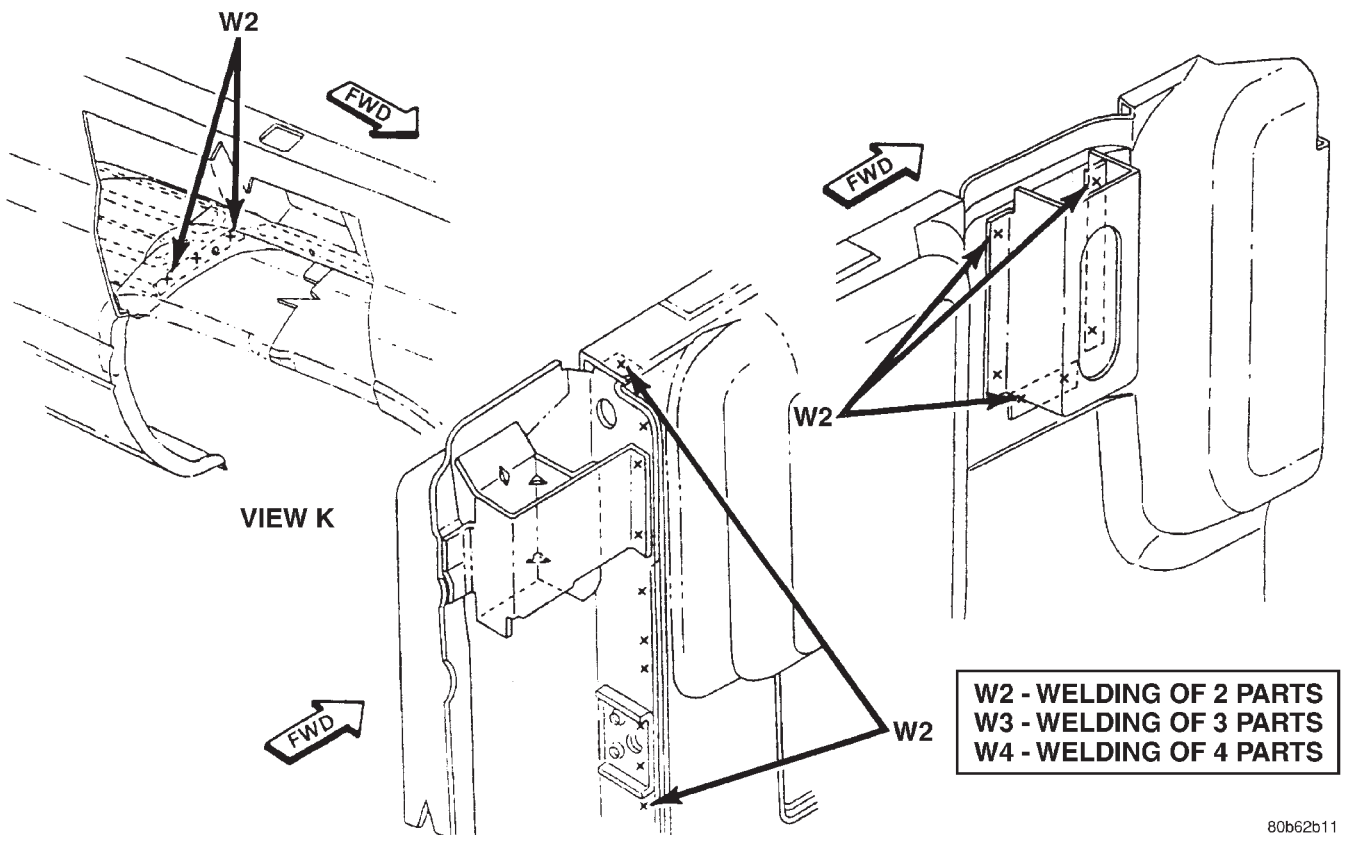
CARGO BOX INNER SIDE PANEL

BODY (Continued)



CARGO BOX INNER SIDE PANEL

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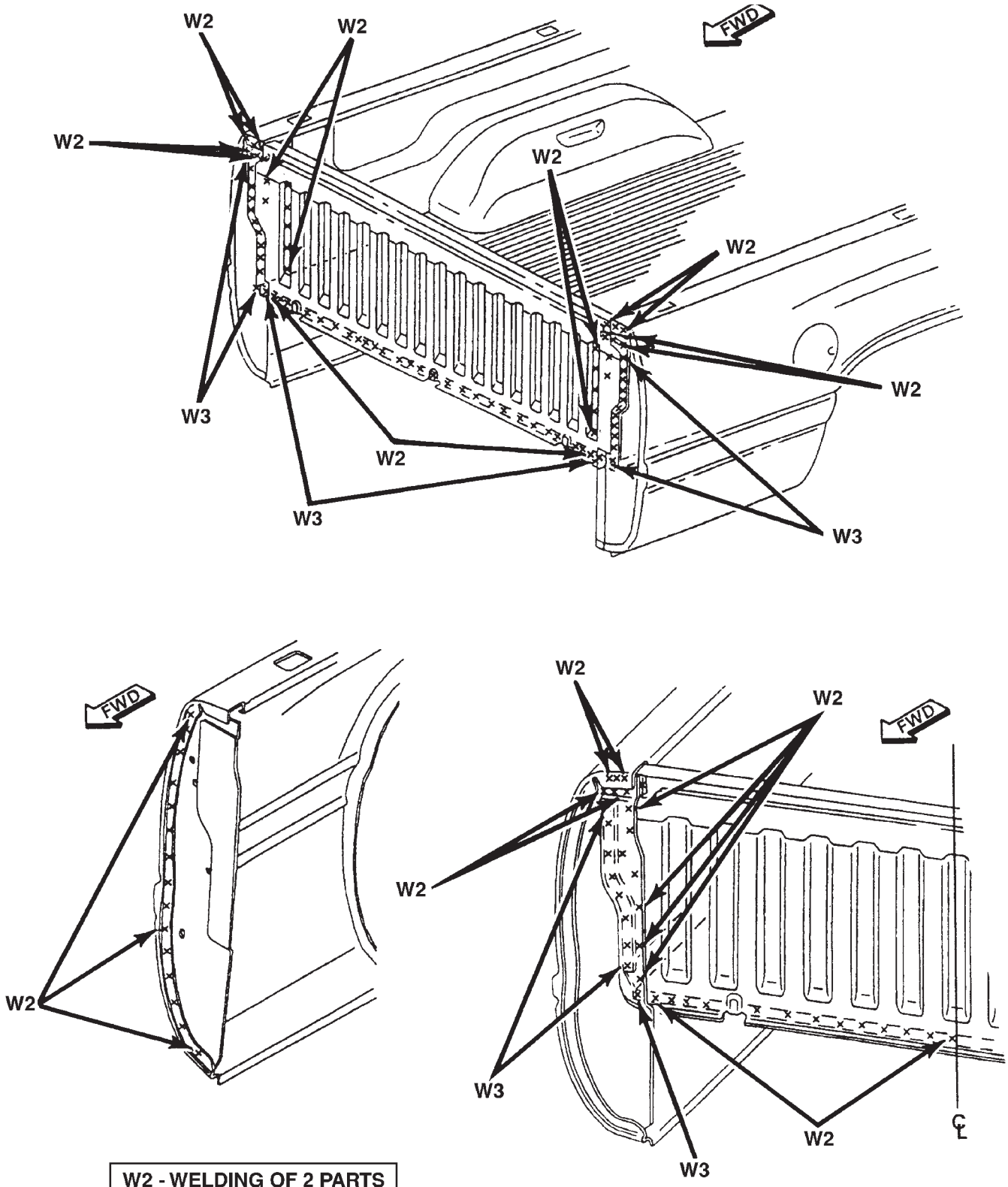
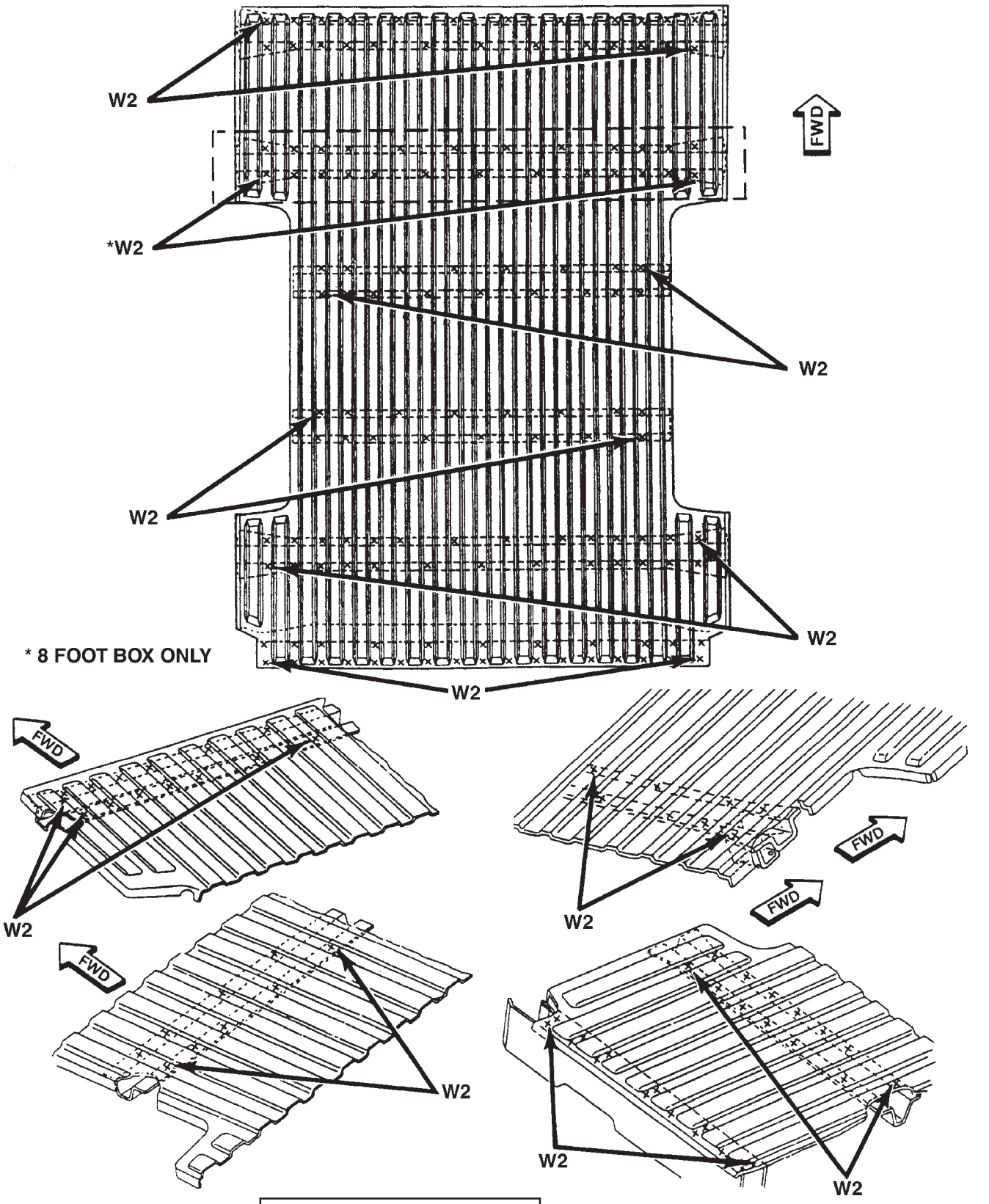


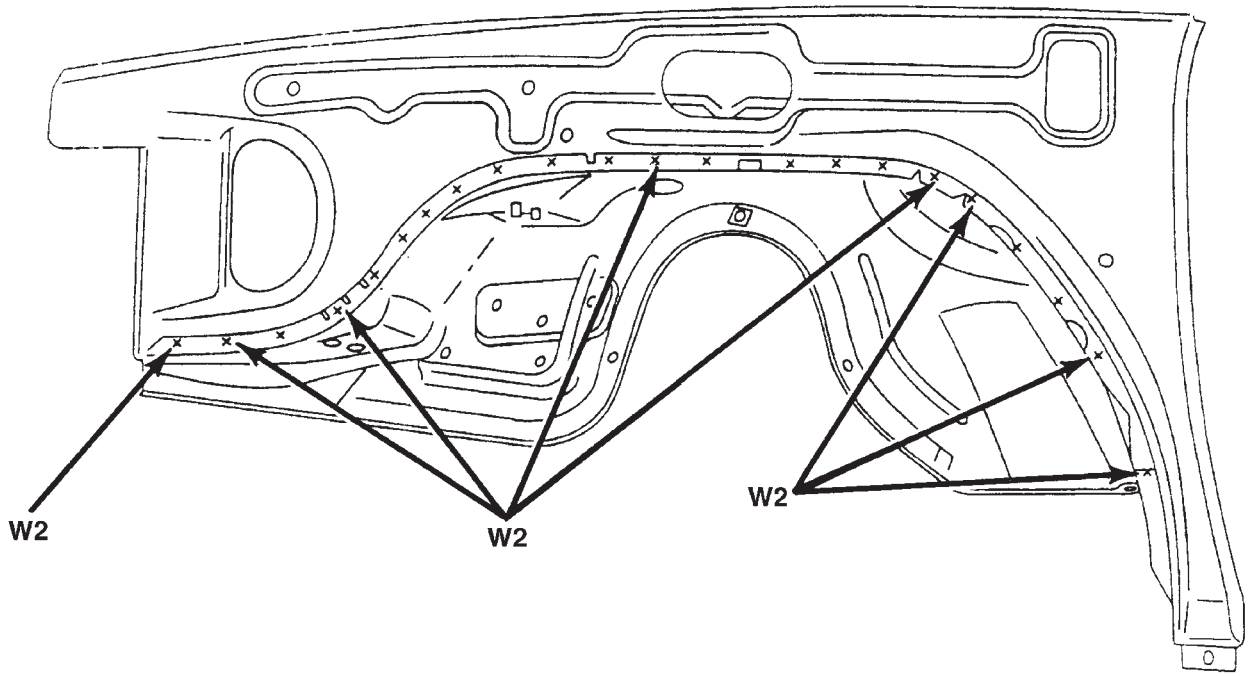
CARGO BOX FRONT PANELS

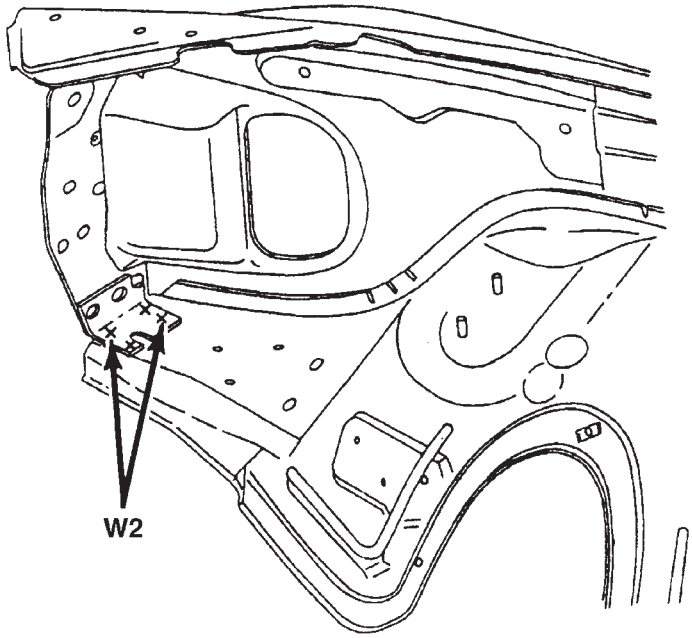
BODY (Continued)



CARGO BOX FLOOR

BODY (Continued)



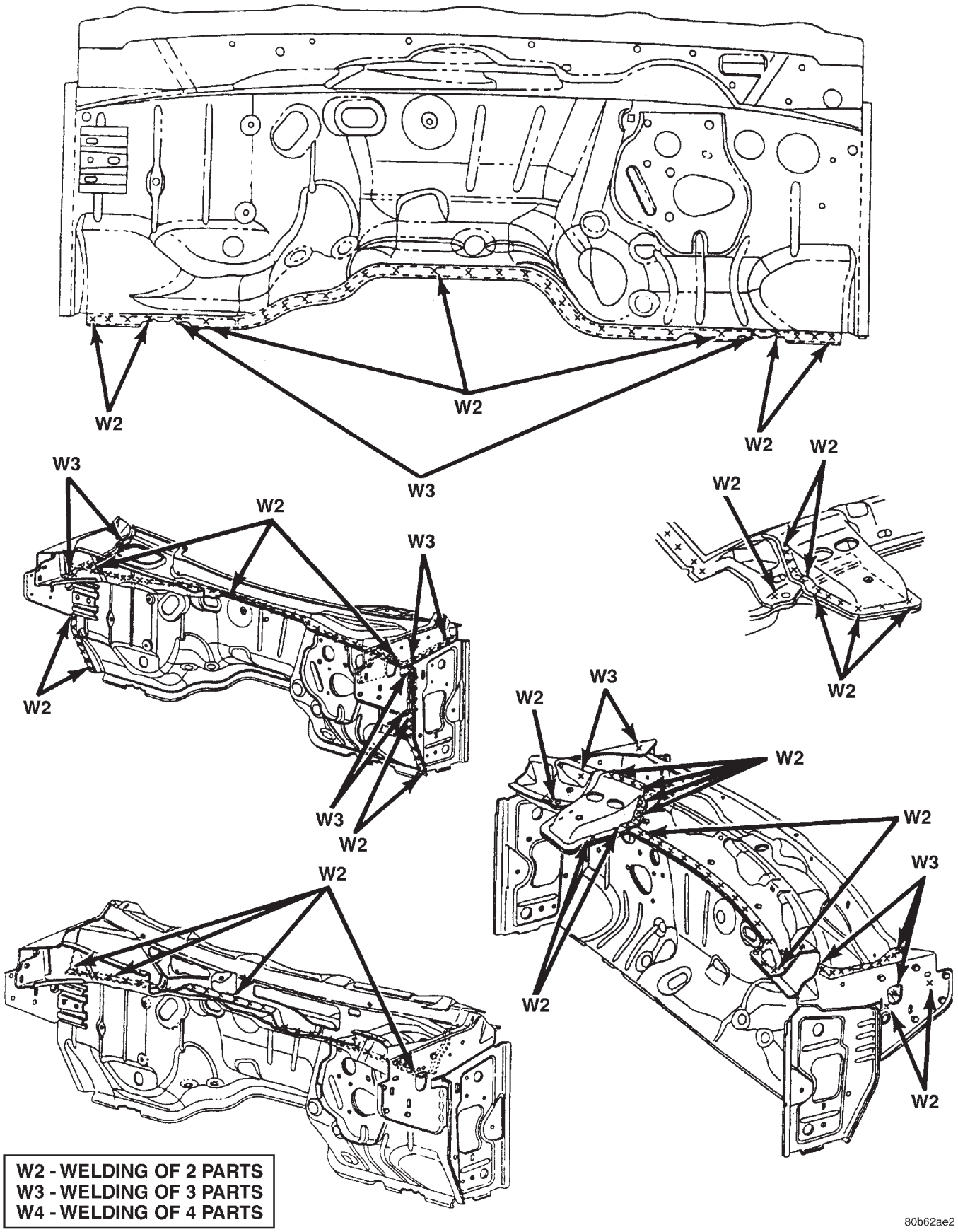


W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

80b62a5a

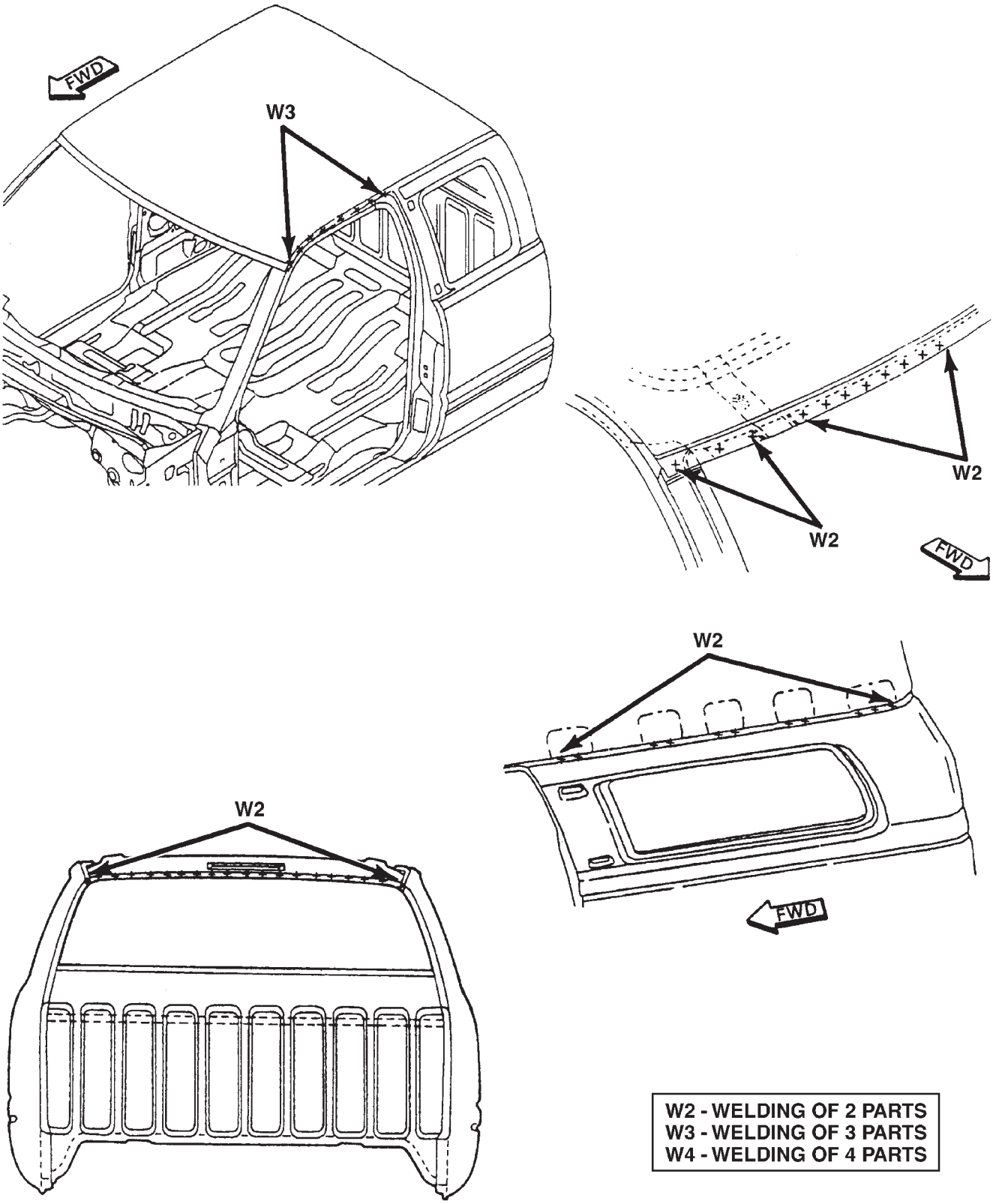
FRONT FENDER AND INNER WHEELHOUSE

BODY (Continued)



COWL AND DASH PANEL

BODY (Continued)



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ROOF PANEL — CLUB CAB

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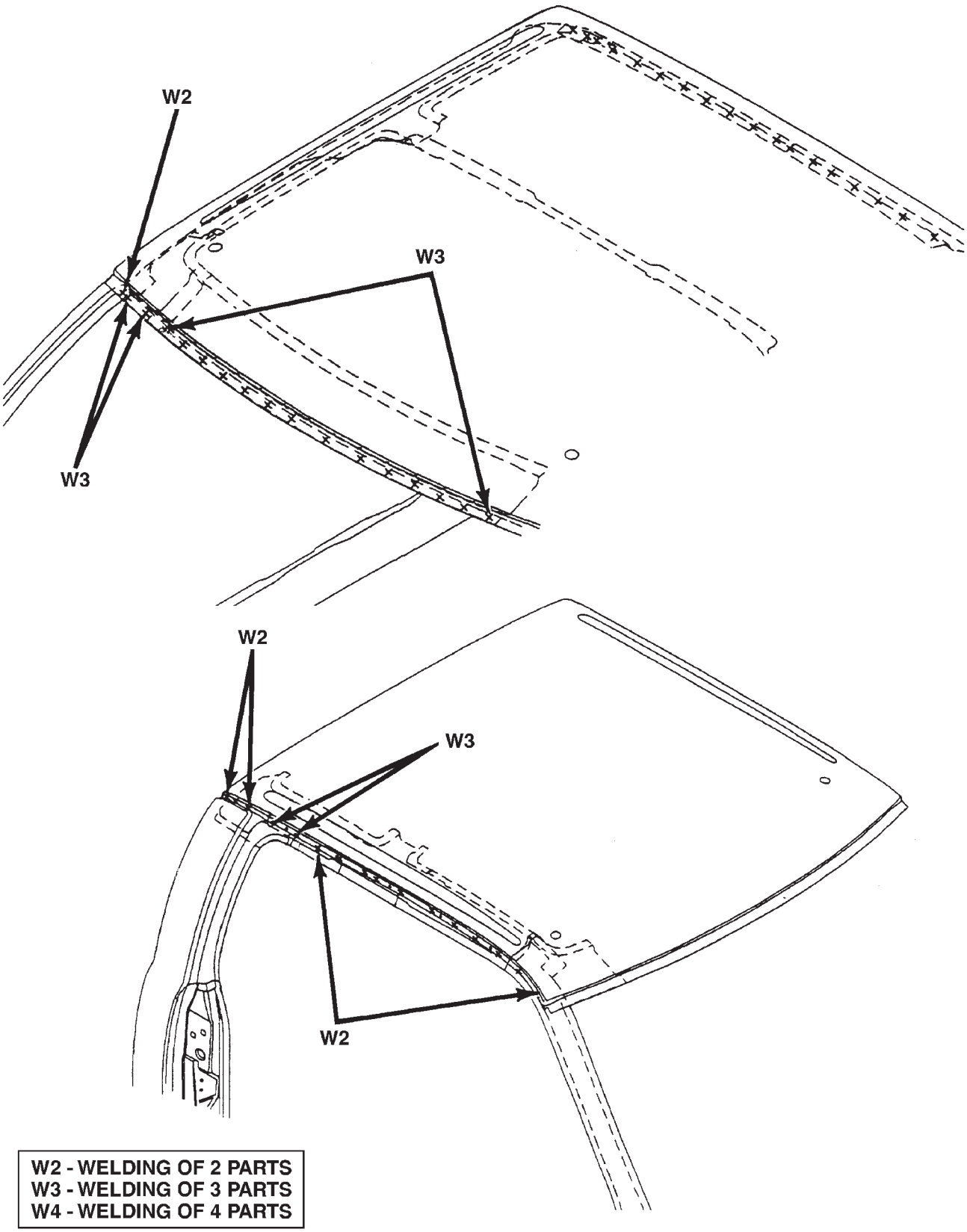
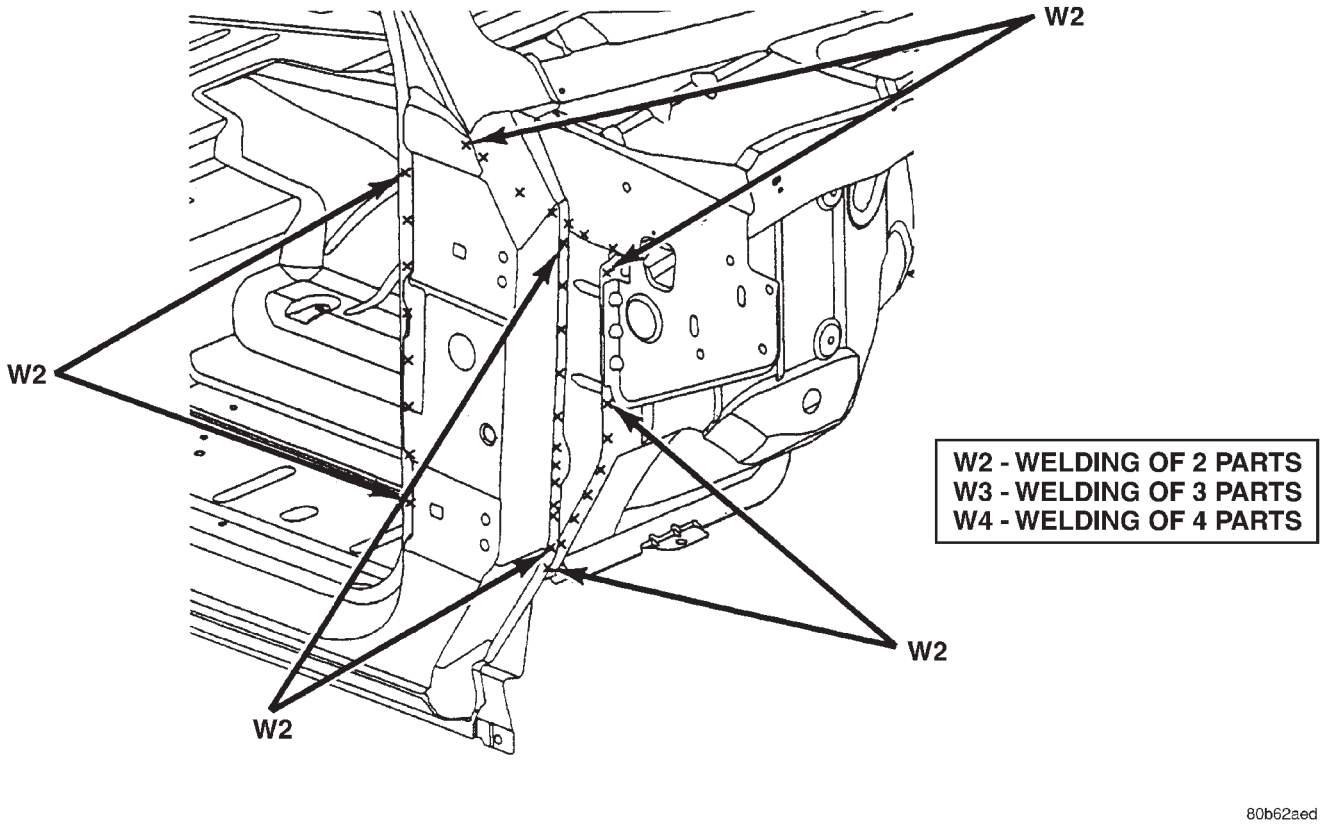


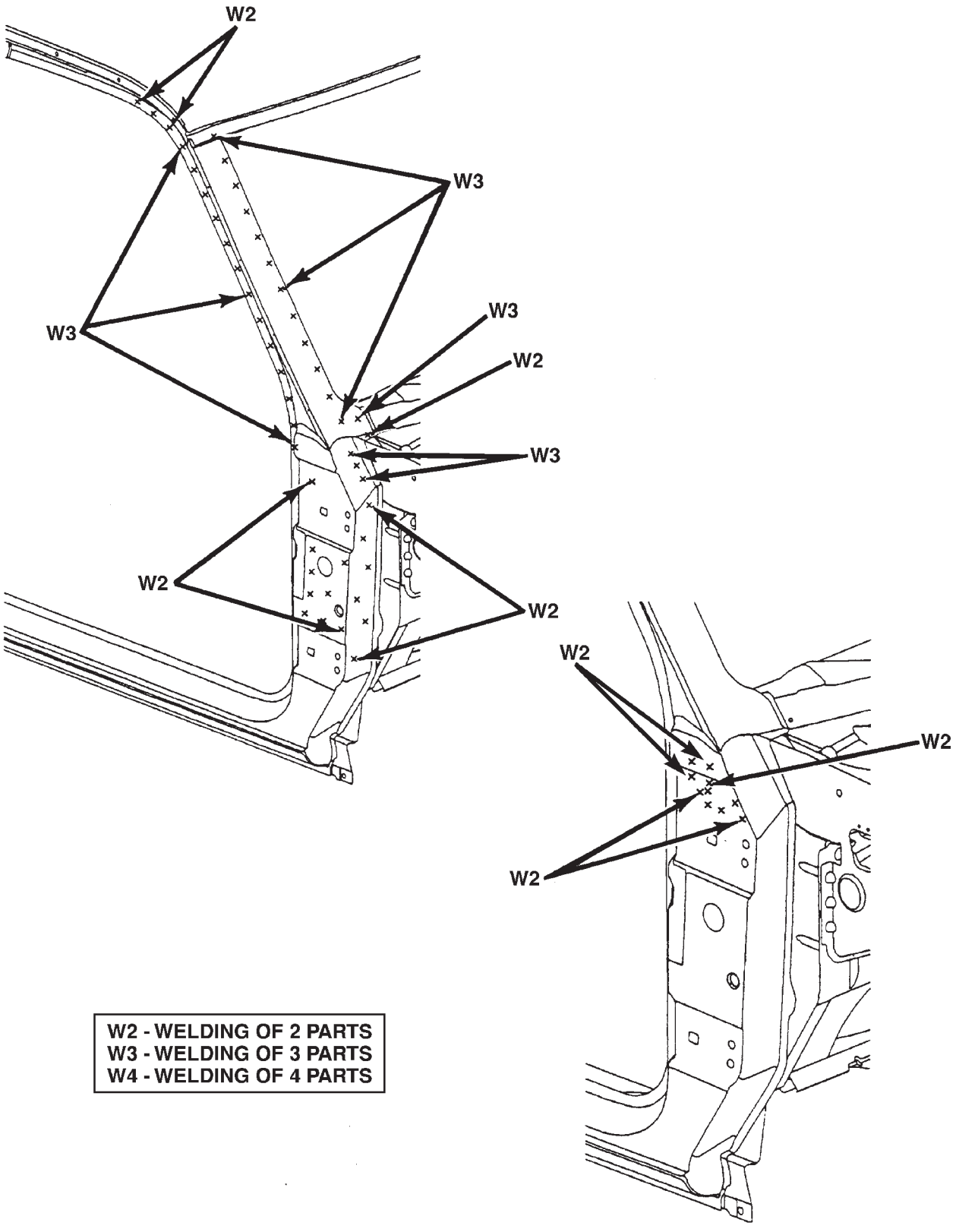
ROOF PANEL — QUAD CAB

BODY (Continued)



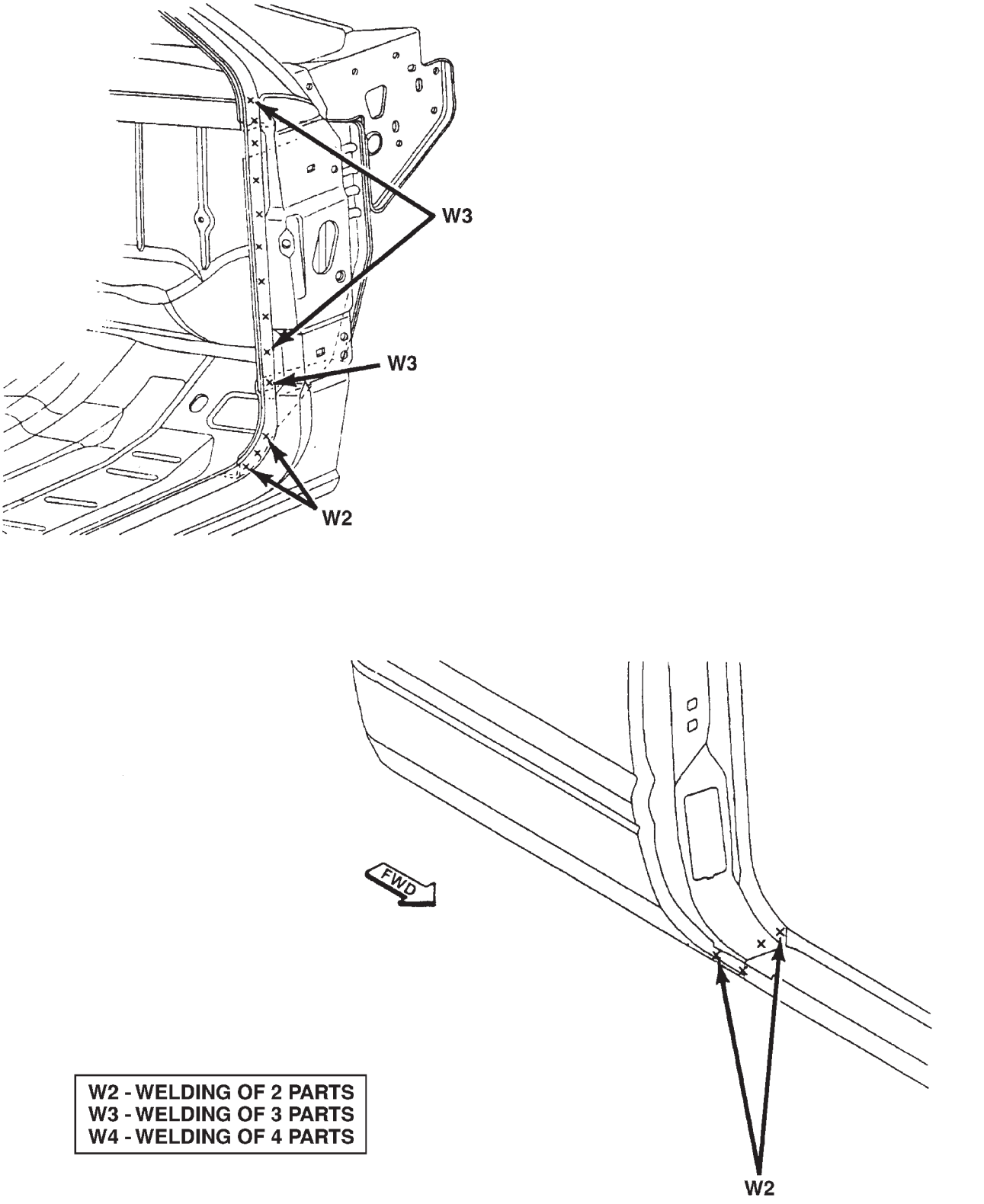
BODY SIDE APERTURE — CLUB CAB

BODY (Continued)



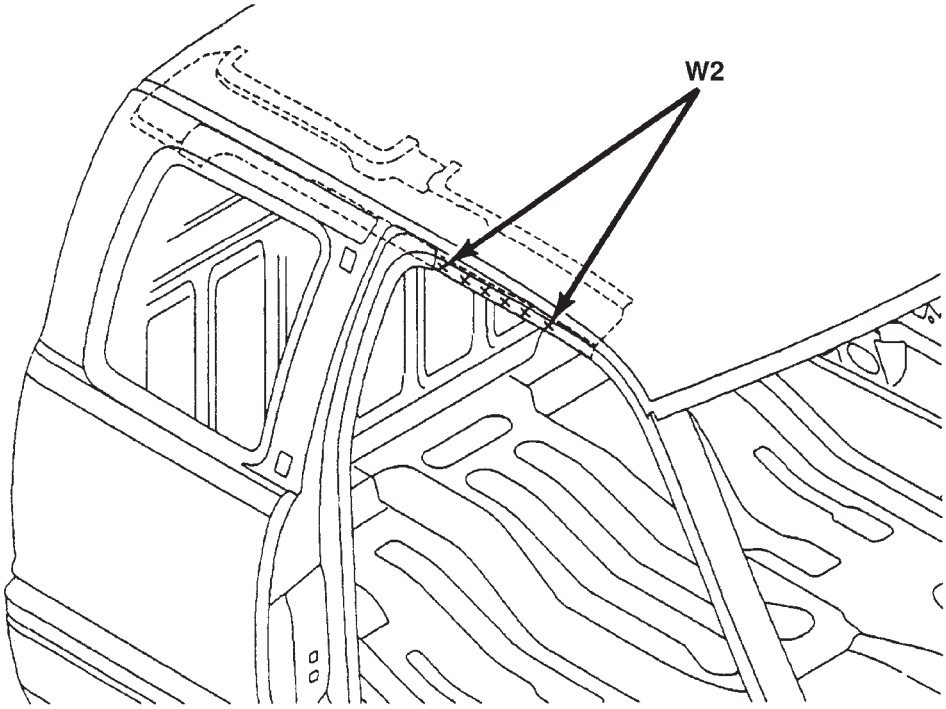
BODY SIDE APERTURE — CLUB CAB

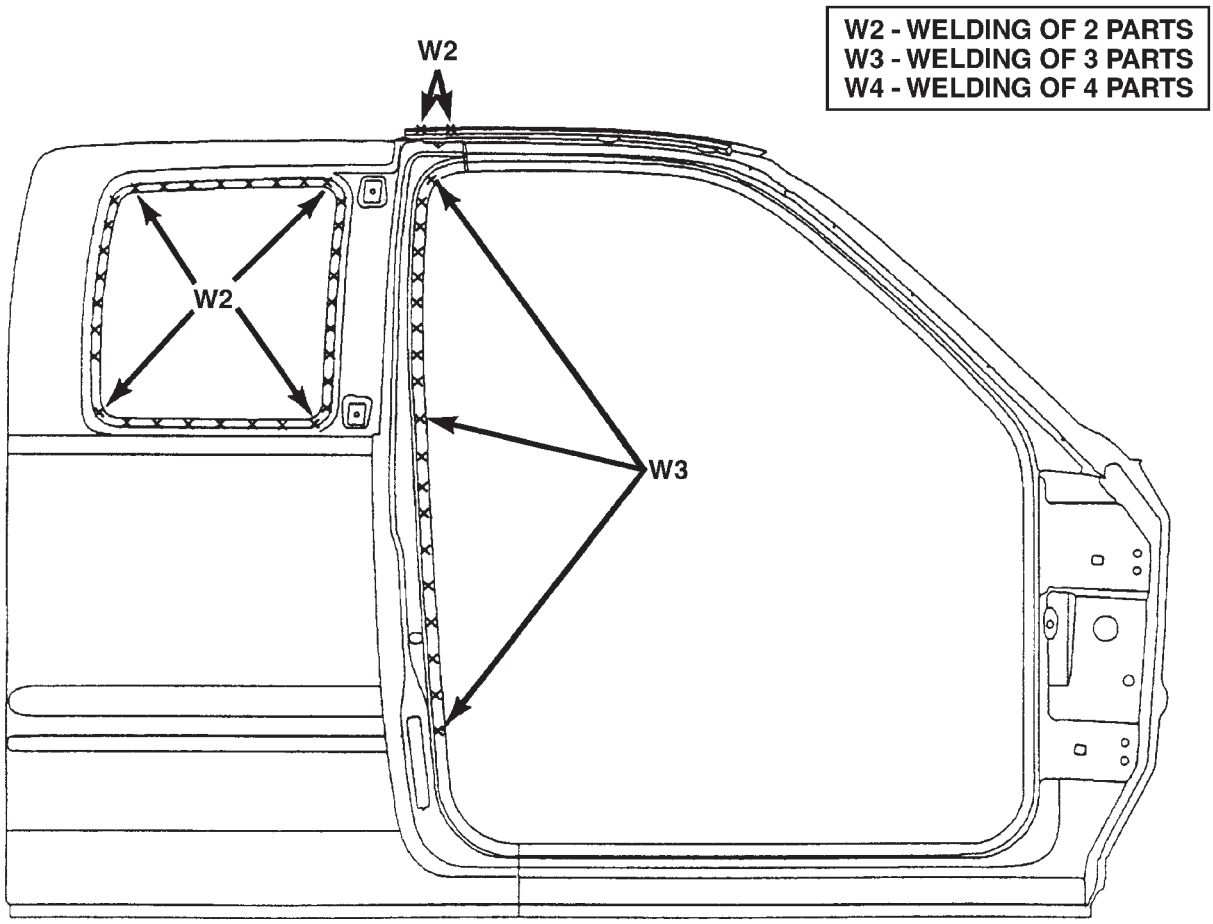
BODY (Continued)



BODY SIDE APERTURE — CLUB CAB

BODY (Continued)





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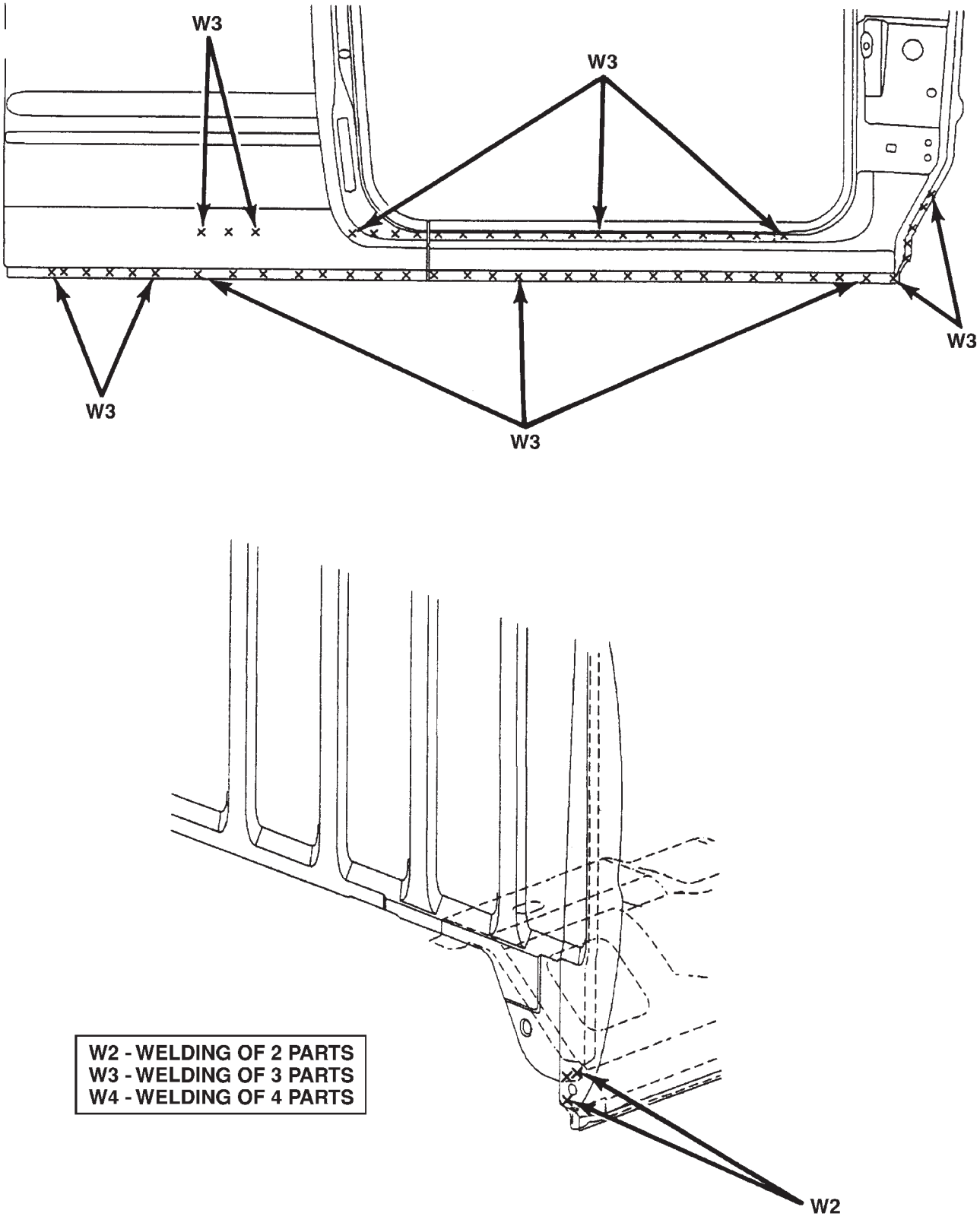
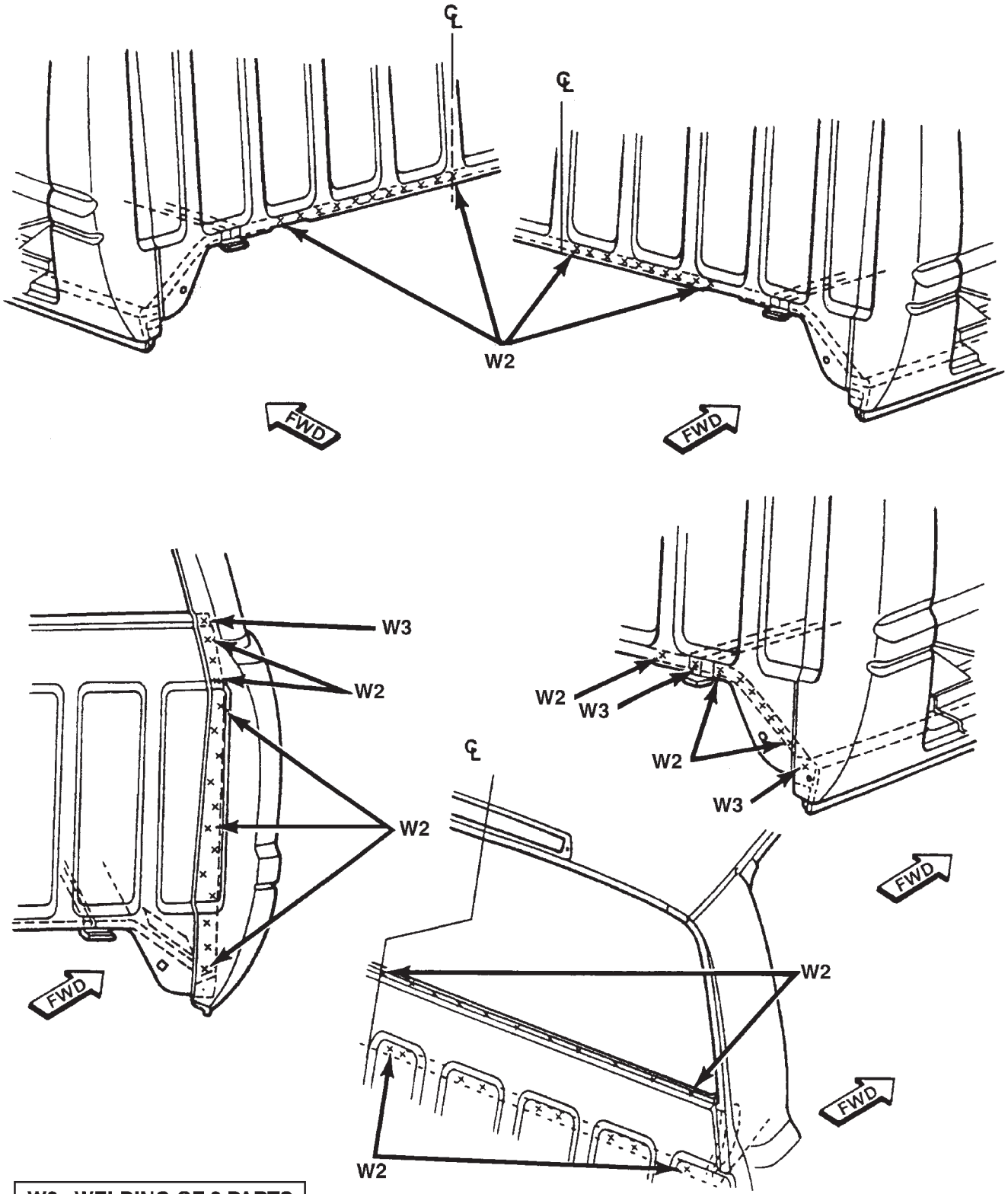
BODY SIDE APERTURE — CLUB CAB

BODY (Continued)



BODY SIDE APERTURE — CLUB CAB

BODY (Continued)



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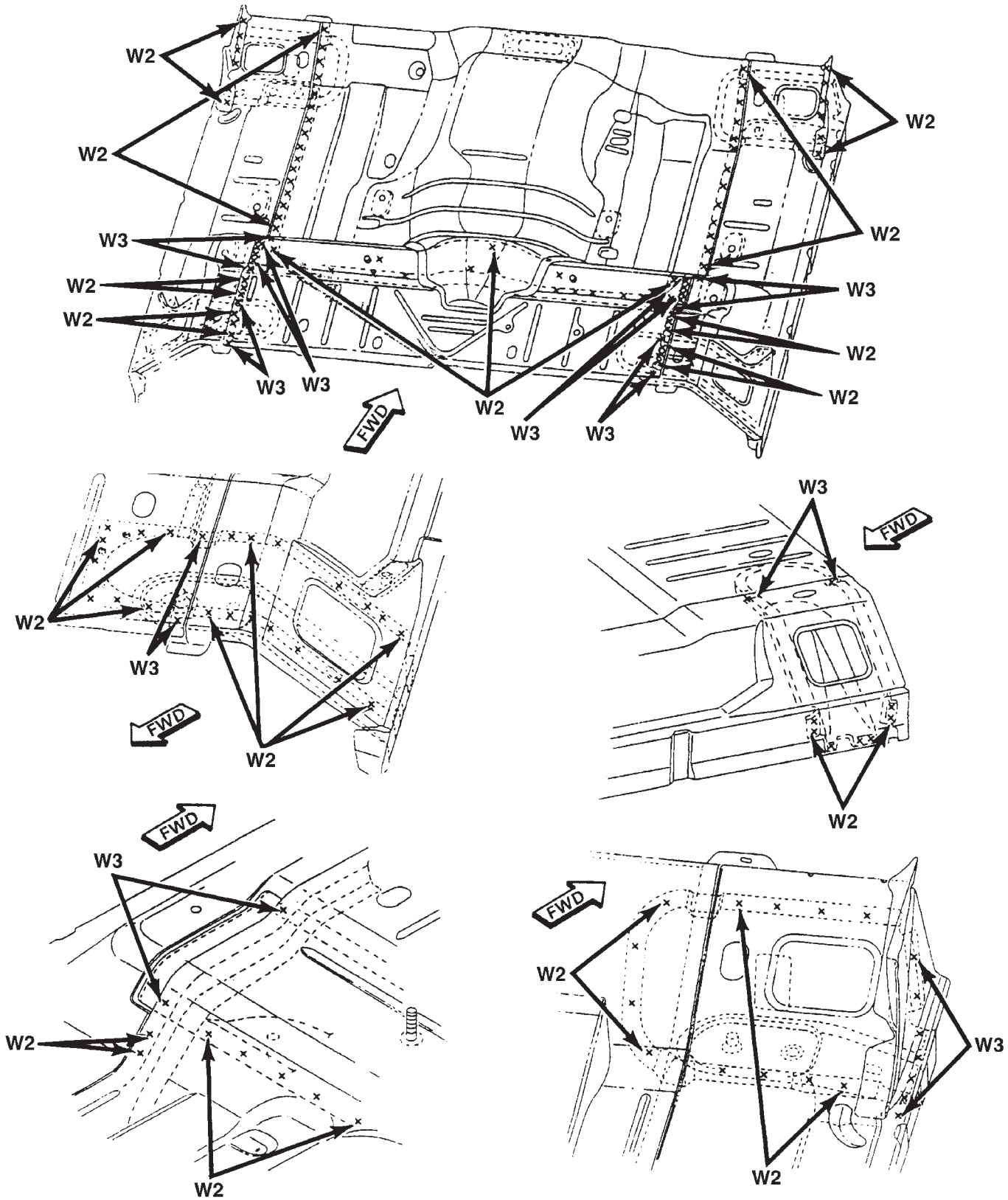
CAB BACK PANEL REG CAB

BODY (Continued)

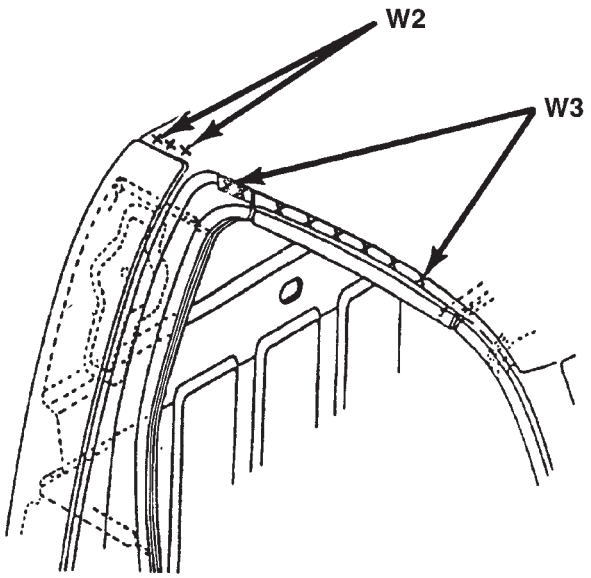


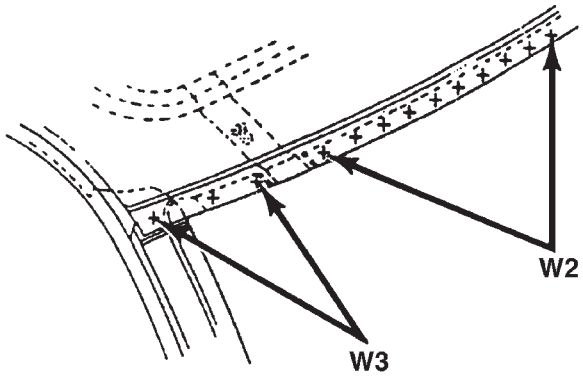
W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

80b62b00

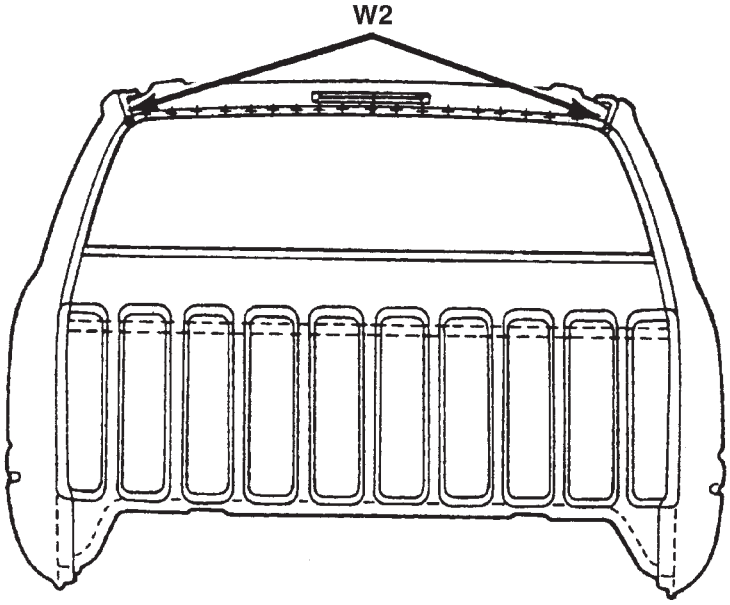
FLOOR PAN REG CAB

BODY (Continued)





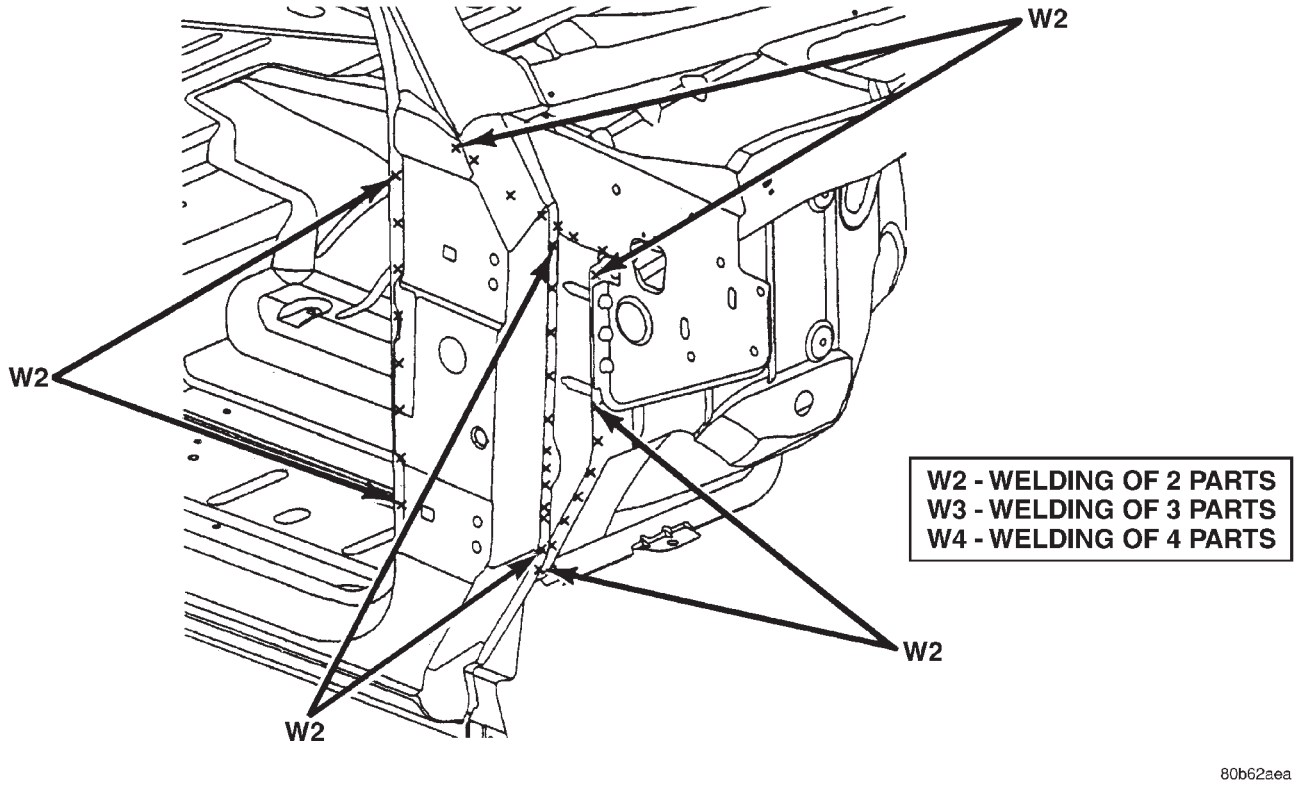
W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS



80b62ae4

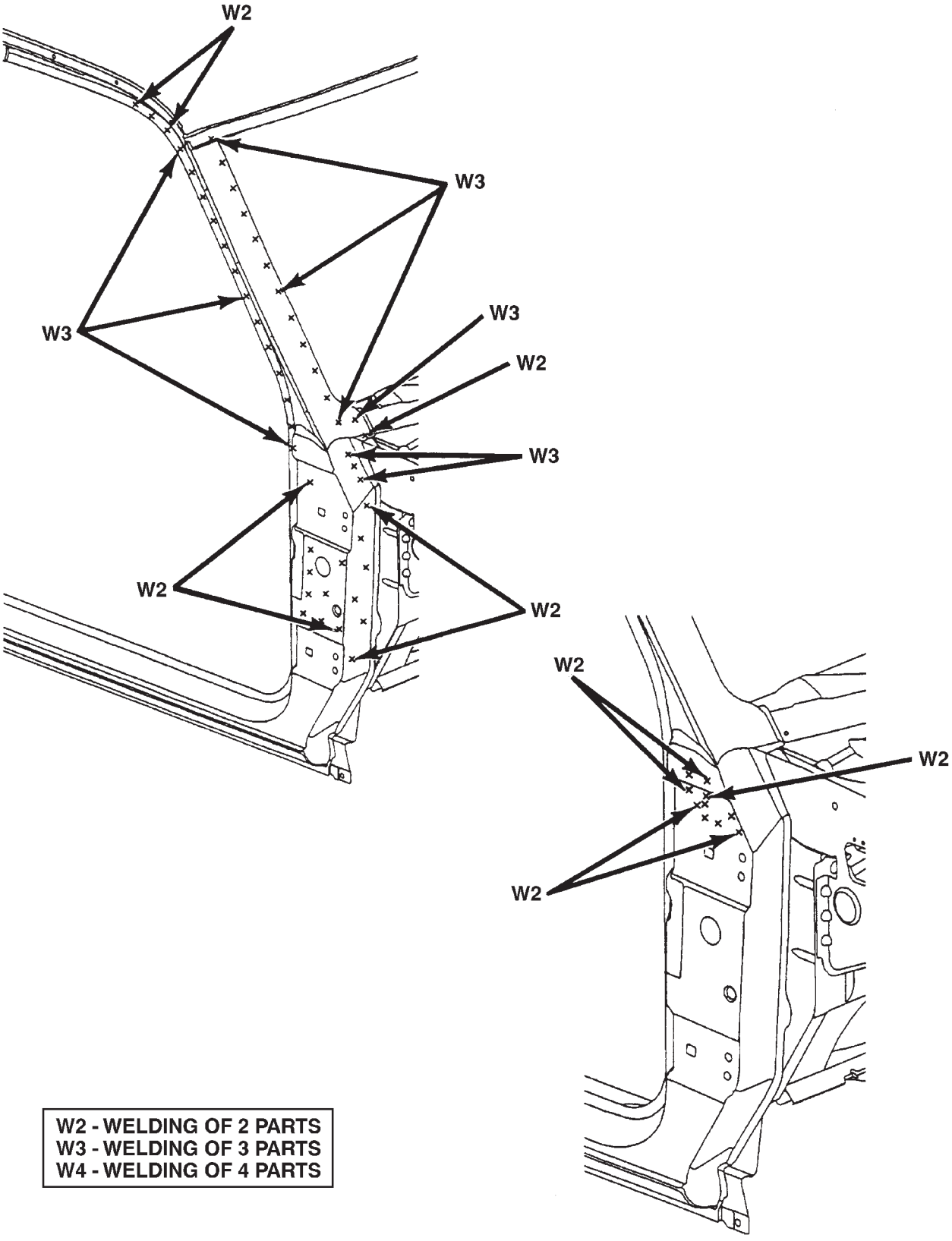
ROOF PANEL - REG CAB

BODY (Continued)



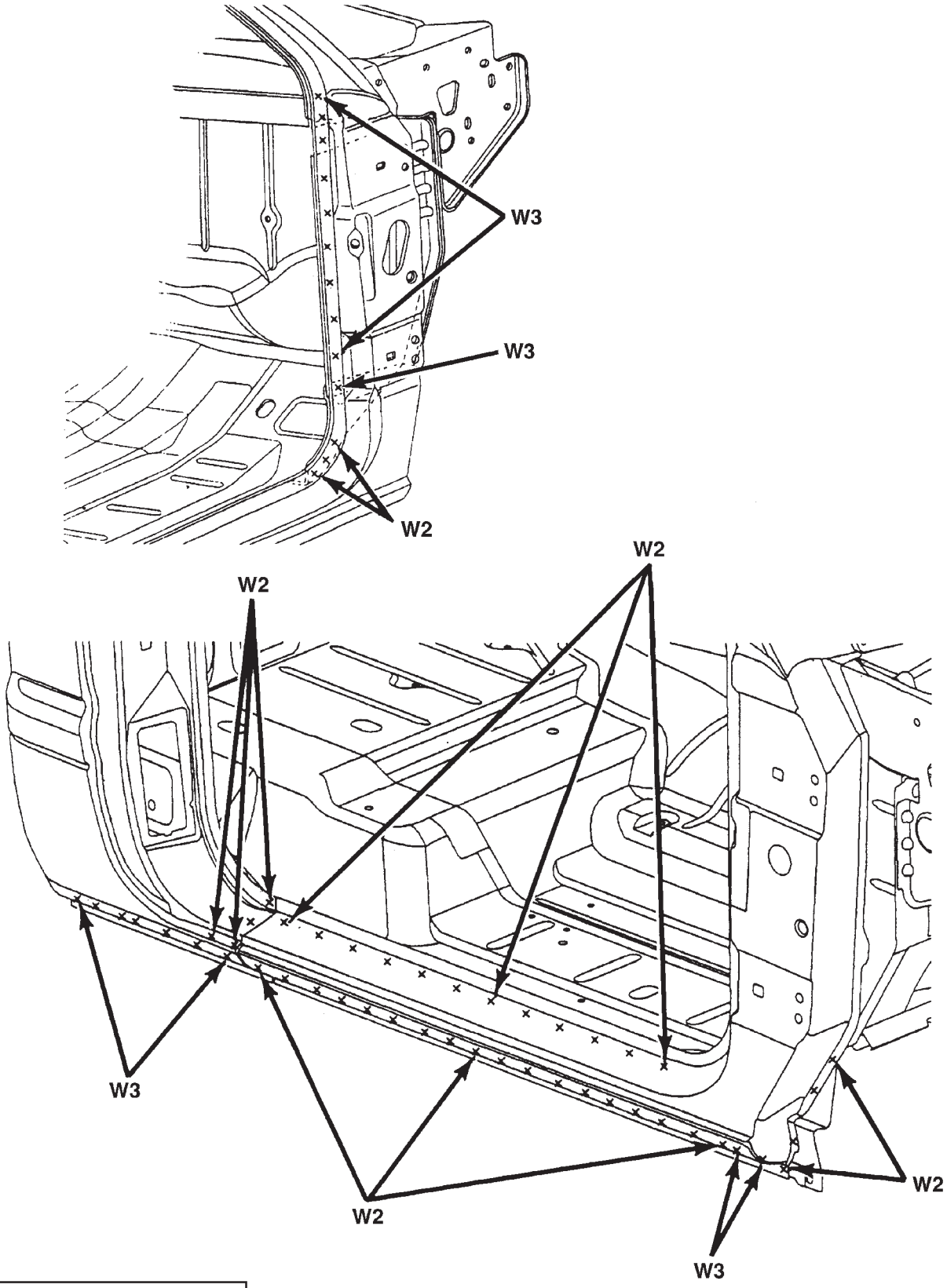
BODY SIDE APERTURE - REG CAB

BODY (Continued)



BODY SIDE APERTURE - REG CAB

BODY (Continued)



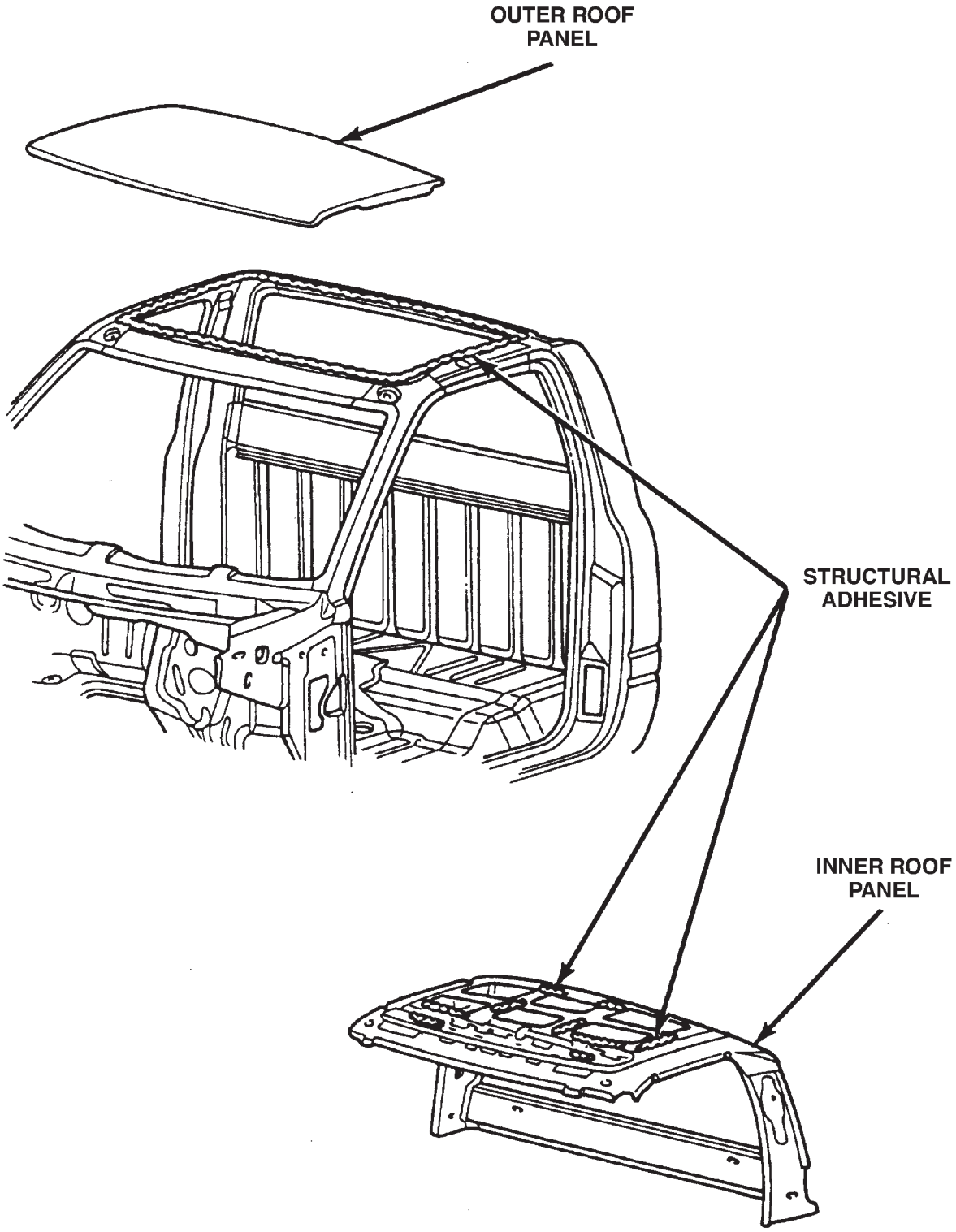
W2 - WELDING OF 2 PARTS
W3 - WELDING OF 3 PARTS
W4 - WELDING OF 4 PARTS

80b62aec

BODY SIDE APERTURE - REG CAB

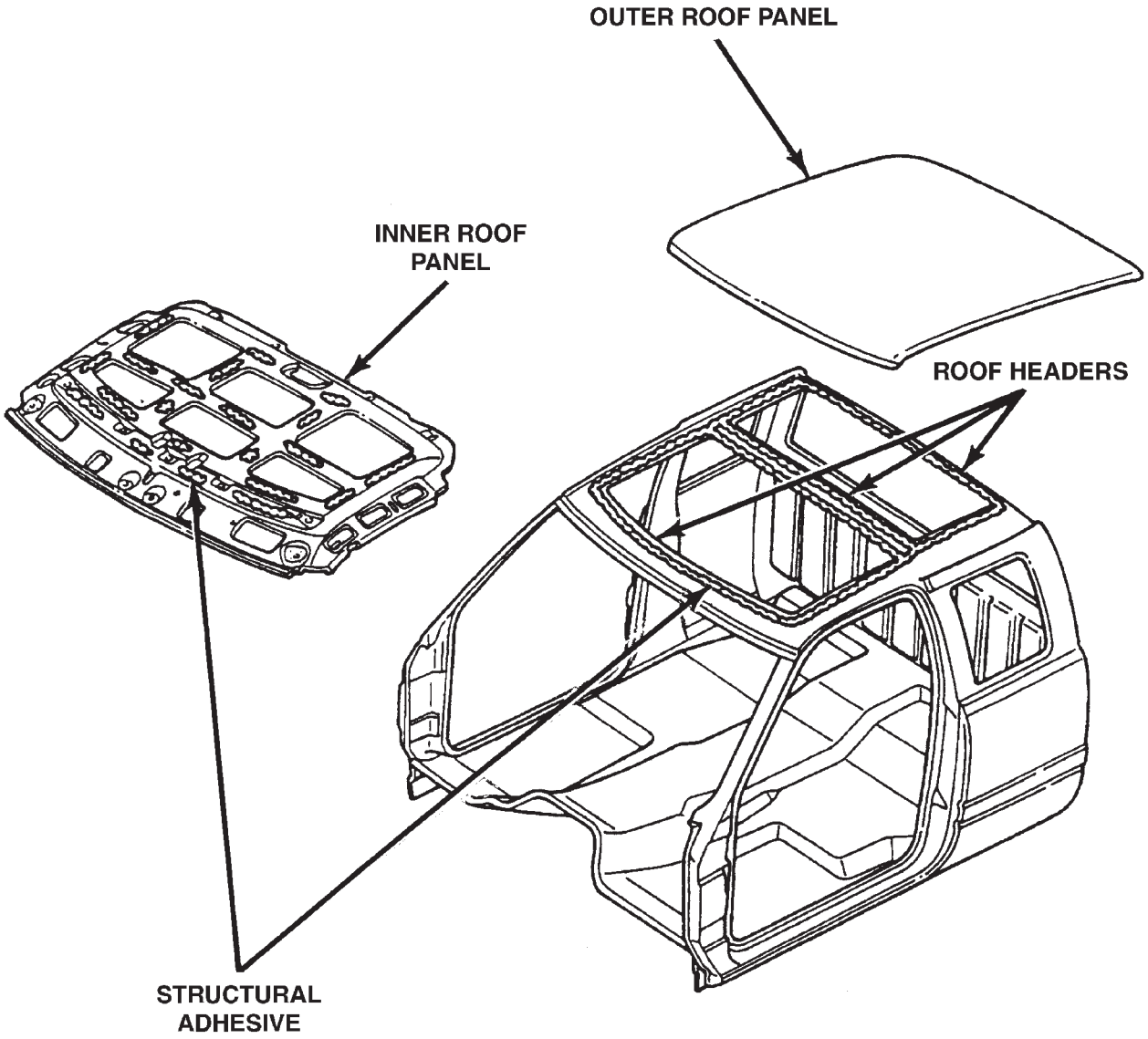
BODY (Continued)

STRUCTURAL ADHESIVE LOCATIONS



ROOF PANELS — REGULAR CAB

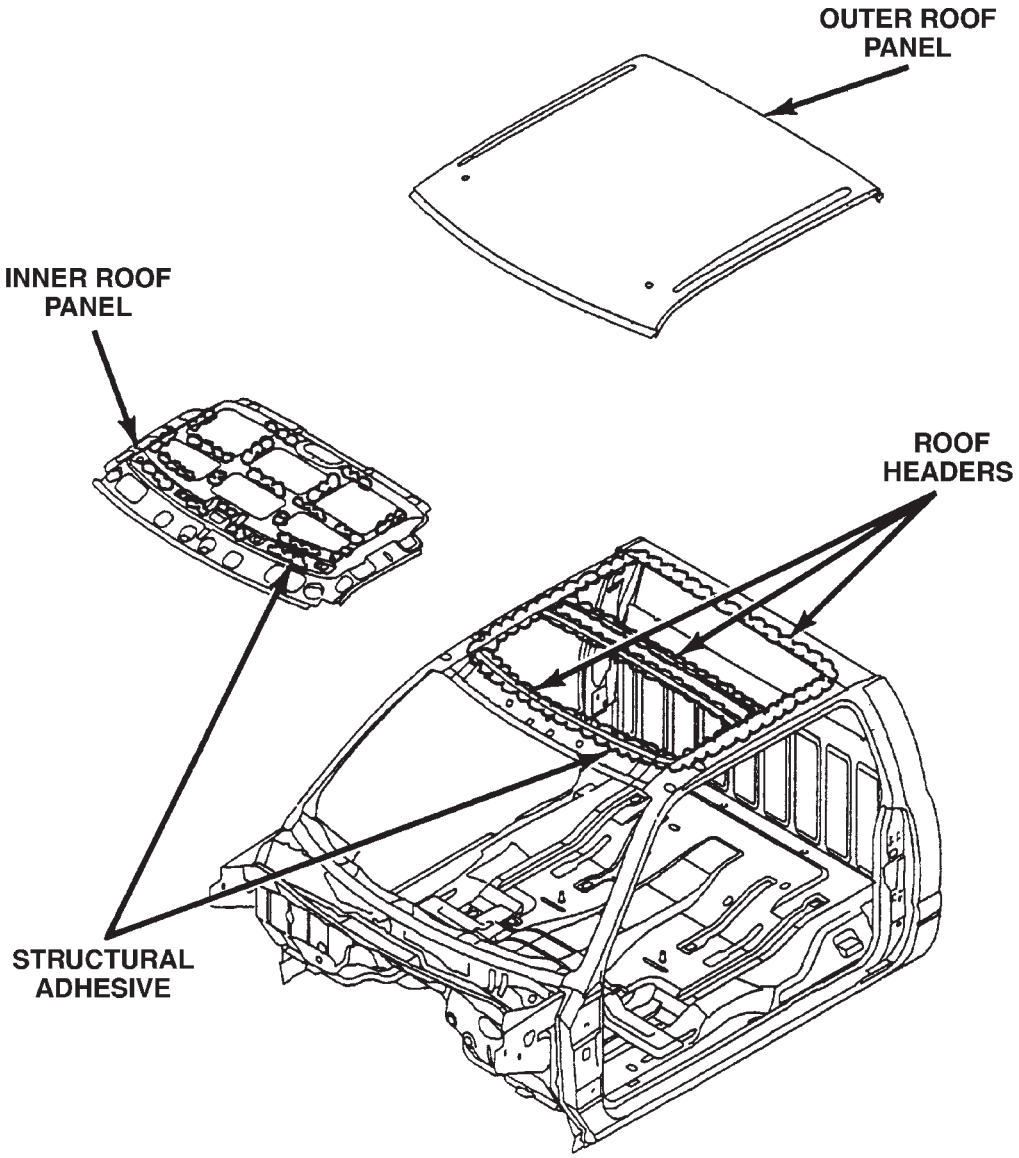
BODY (Continued)



80b62b17

CLUB CAB

BODY (Continued)

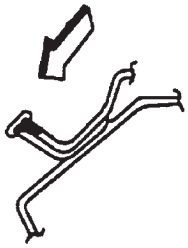


80b62b16

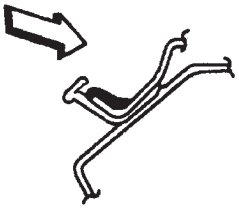
QUAD CAB

BODY (Continued)

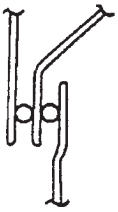
BODY SEALER LOCATIONS



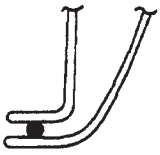
HOLD GUN NOZZLE IN DIRECTION OF ARROW IN ORDER TO EFFECTIVELY SEAL METAL JOINTS.



DO NOT HOLD GUN NOZZLE IN DIRECTION OF ARROW. SEALER APPLIED AS SHOWN IN INEFFECTIVE.

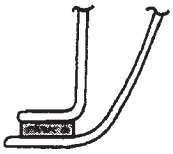


3 METAL THICKNESS

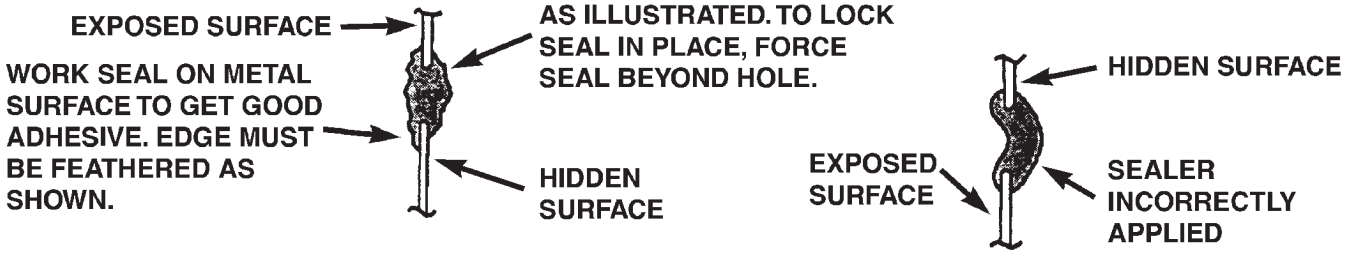


2 METAL THICKNESS

3 METAL THICKNESS



2 METAL THICKNESS



SYMBOLS

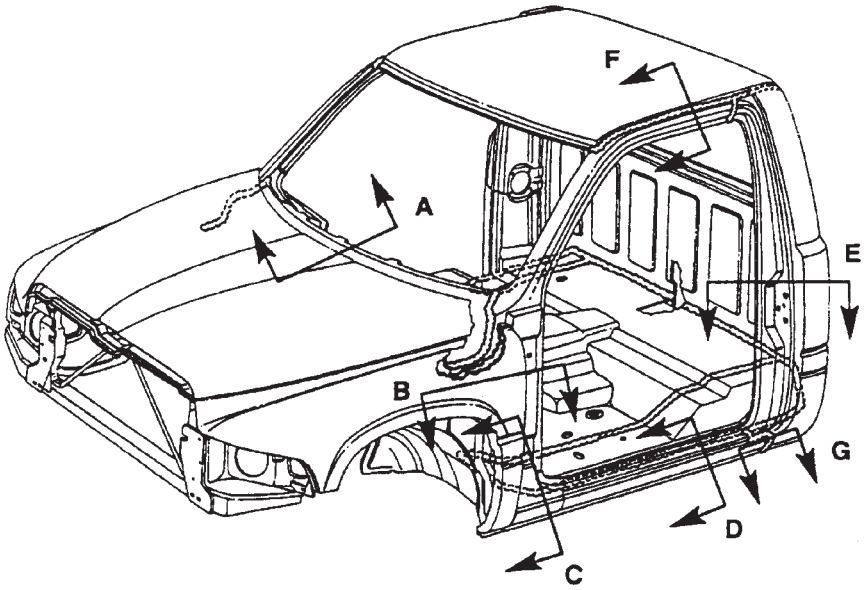
	THUMBGRADEABLE SEALER
	EXTRUDABLE THERMOPLASTIC
	EXPOSED THERMOPLASTIC SEALANT
zzzzzzzz	HIDDEN SEALANT

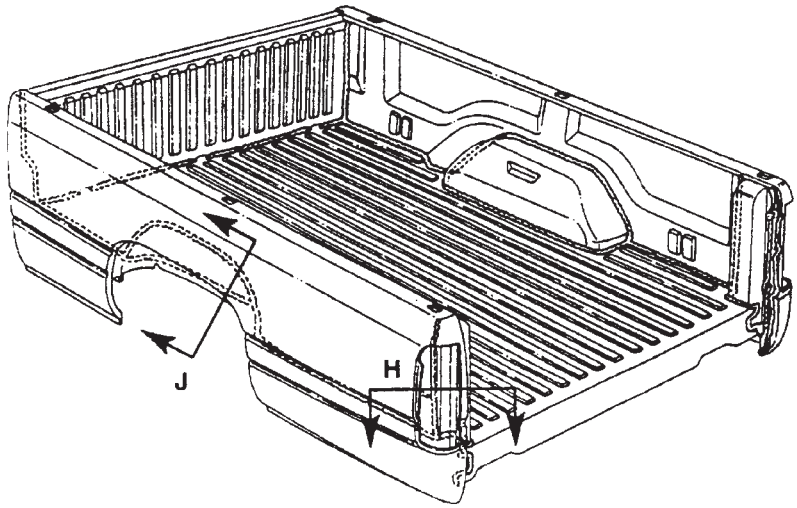
80b62b1b

APPLICATION METHODS

BODY (Continued)

A – COWL AND PLENUM
B – HINGE PILLAR TOP VIEW
C – HINGE PILLAR END VIEW
D – FLOOR AND SIDE SILL
E – B–PILLAR
F – ROOF SIDE RAIL
G – SIDE SILL TO QUARTER PANEL
H – BOX REAR CORNER
J – BOX WHEEL WELL





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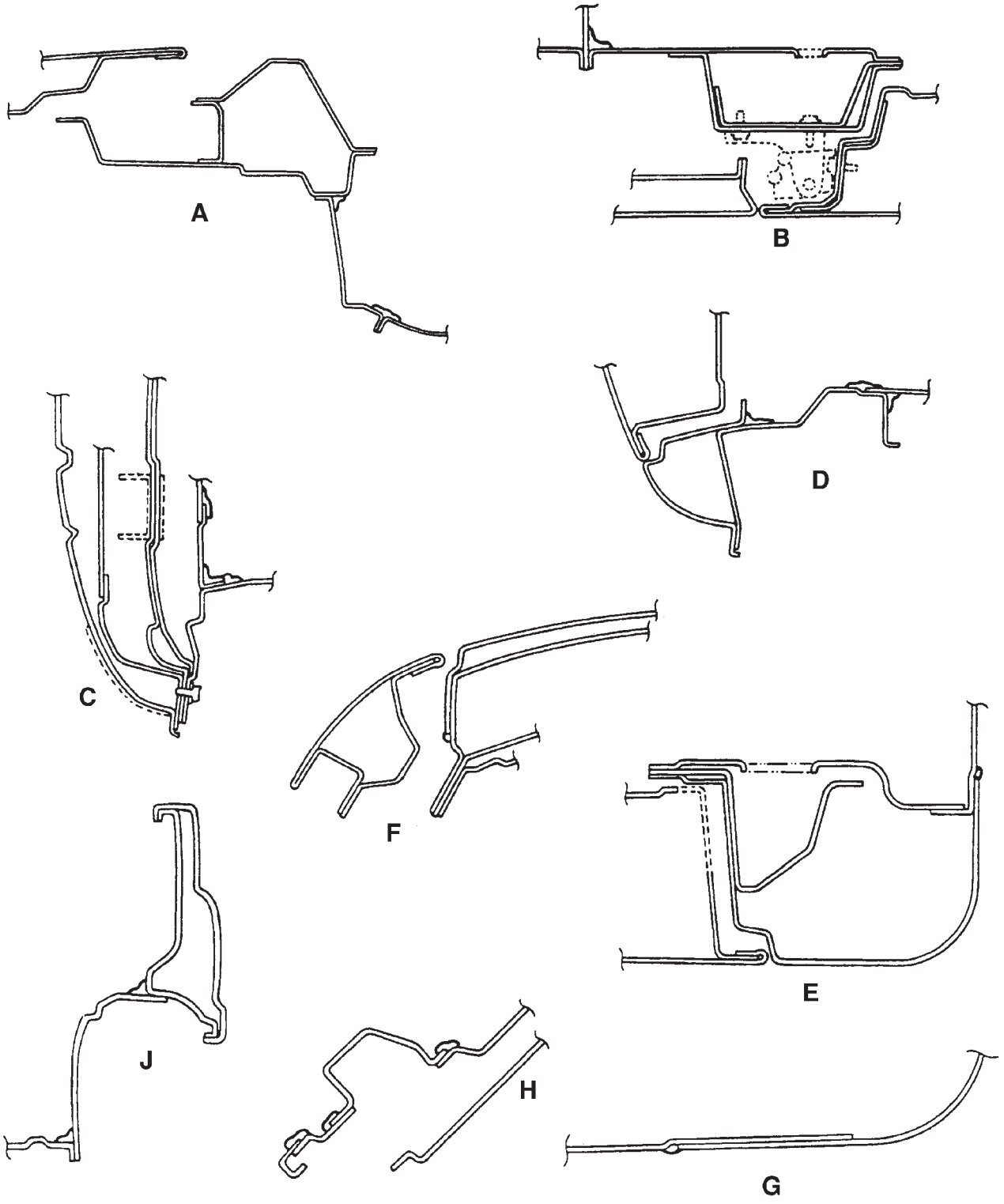
SEALER LOCATION

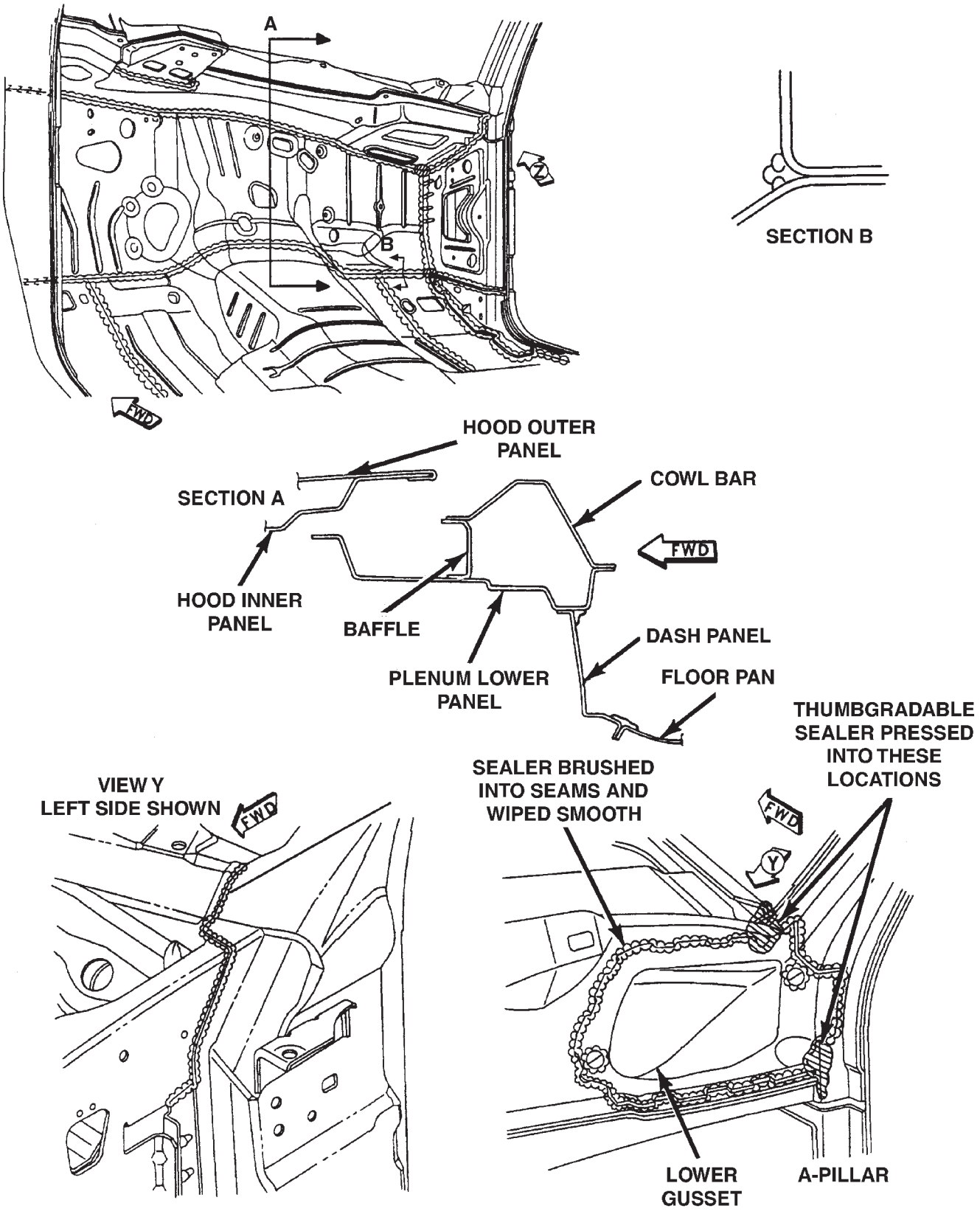
BODY (Continued)



80b62b1a

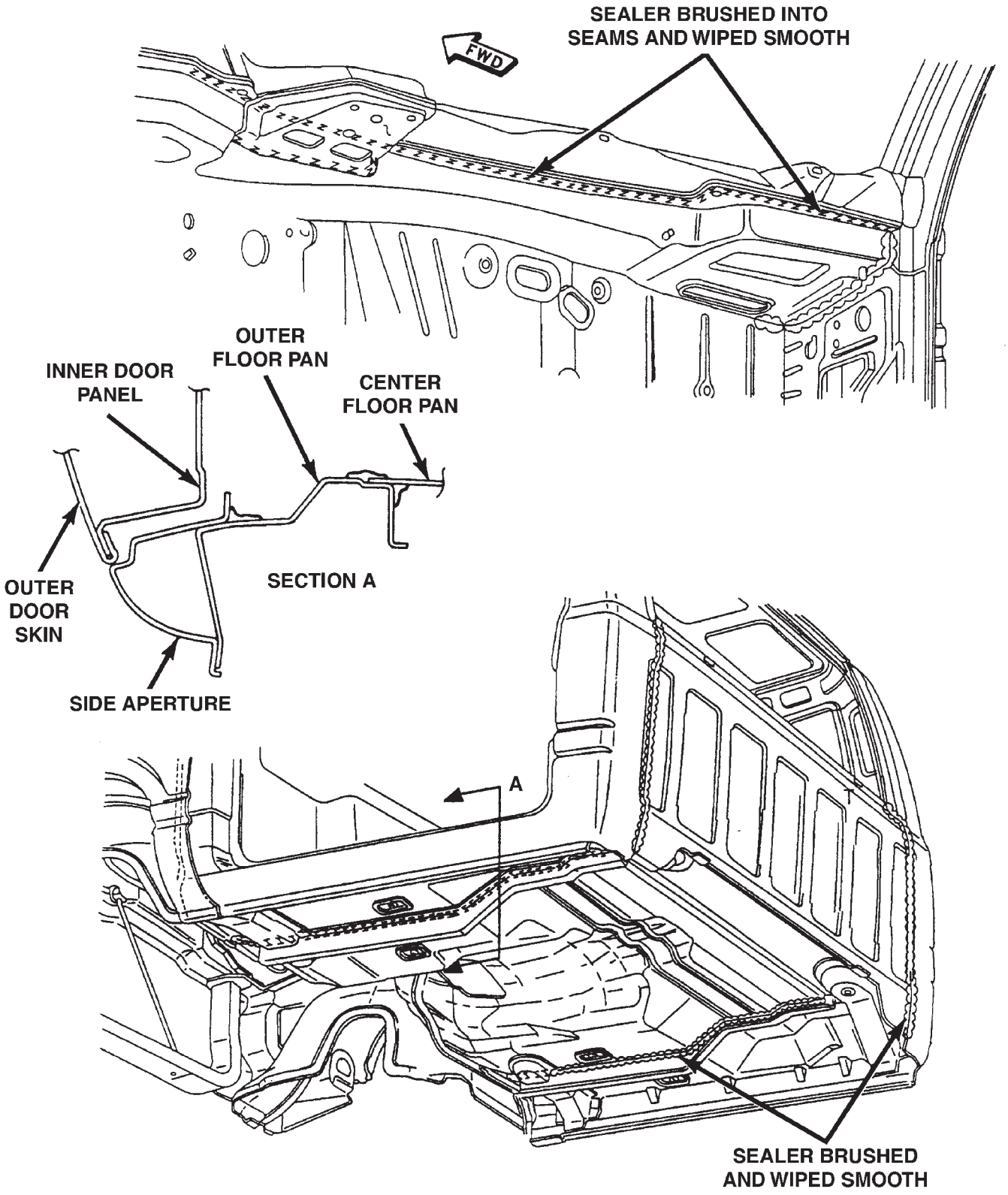
CUT-AWAY VIEW

BODY (Continued)



COWL AND DASH PANEL

BODY (Continued)



NOTE: SEALER ON UNDERSIDE OF FLOOR PAN IS USED ONLY ON VEHICLES BUILT IN MEXICO.

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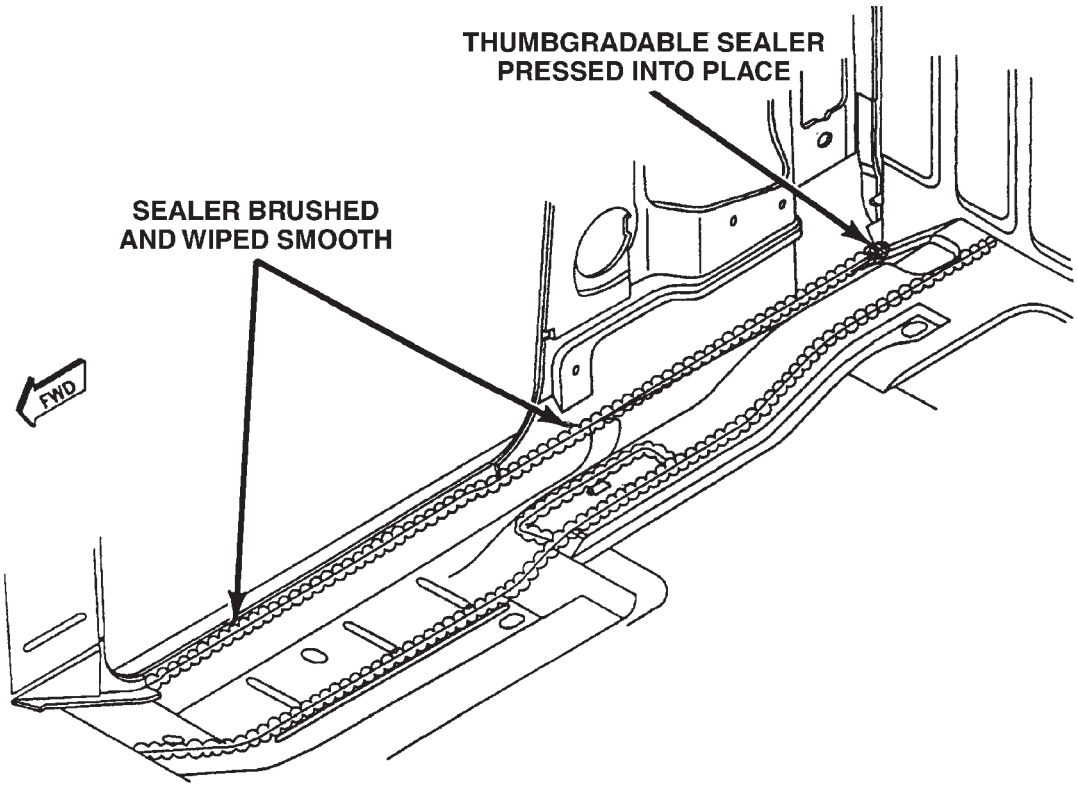
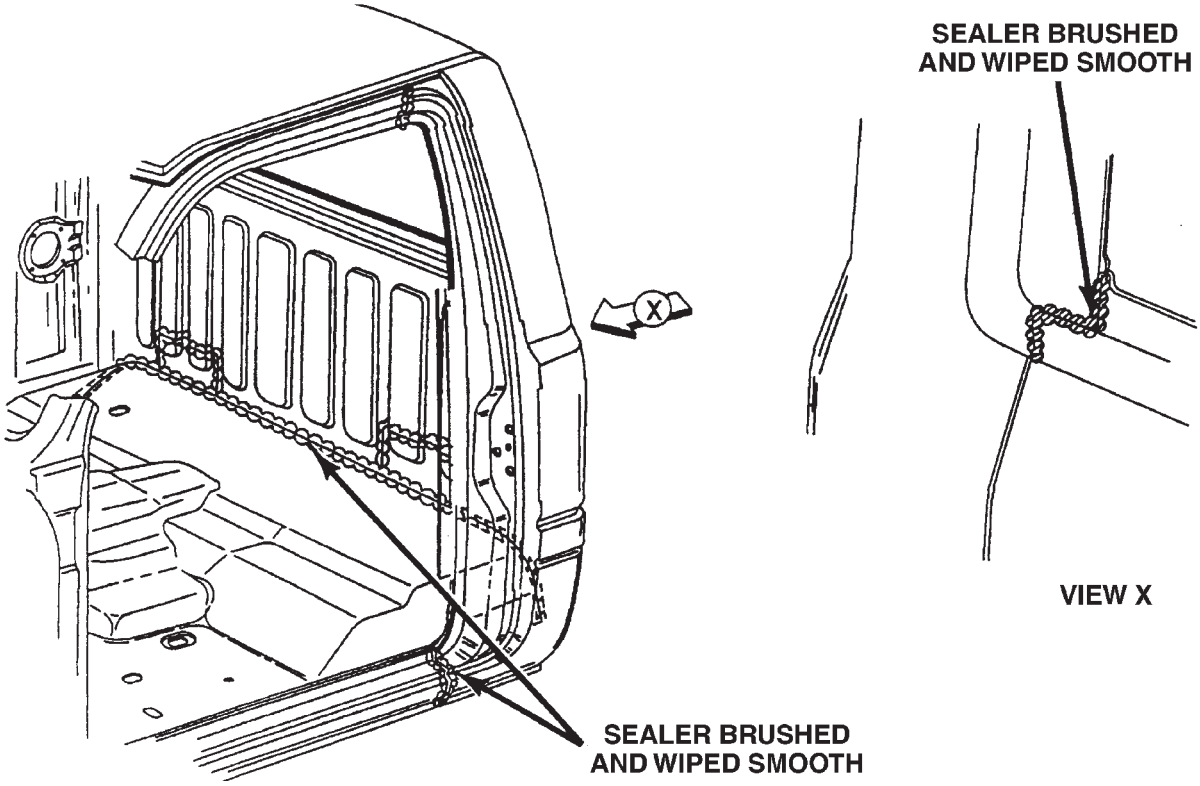
COWL AND DASH PANEL

BODY (Continued)

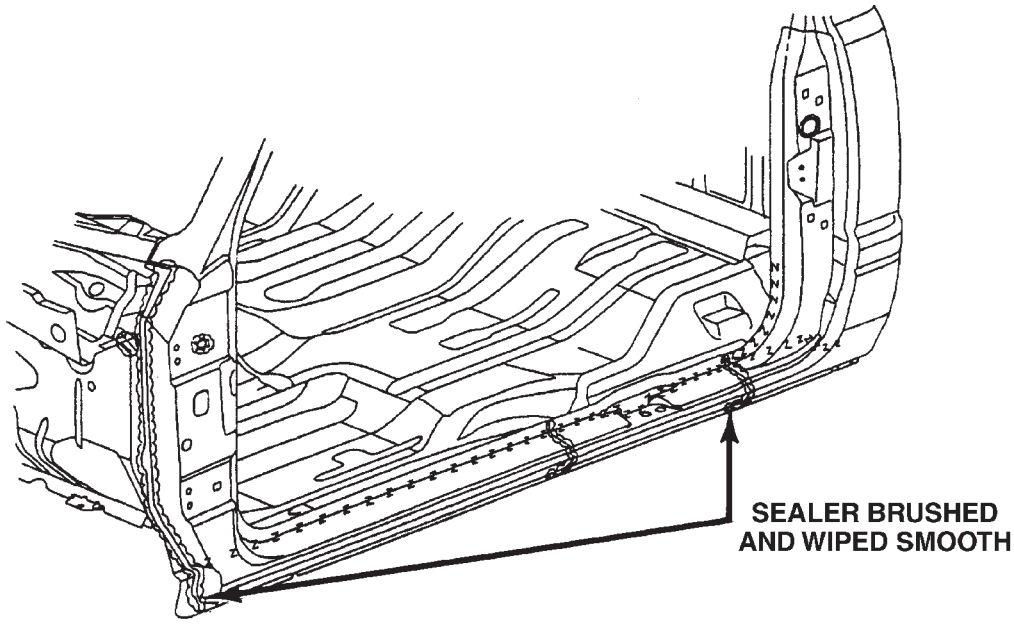


FLOOR PAN

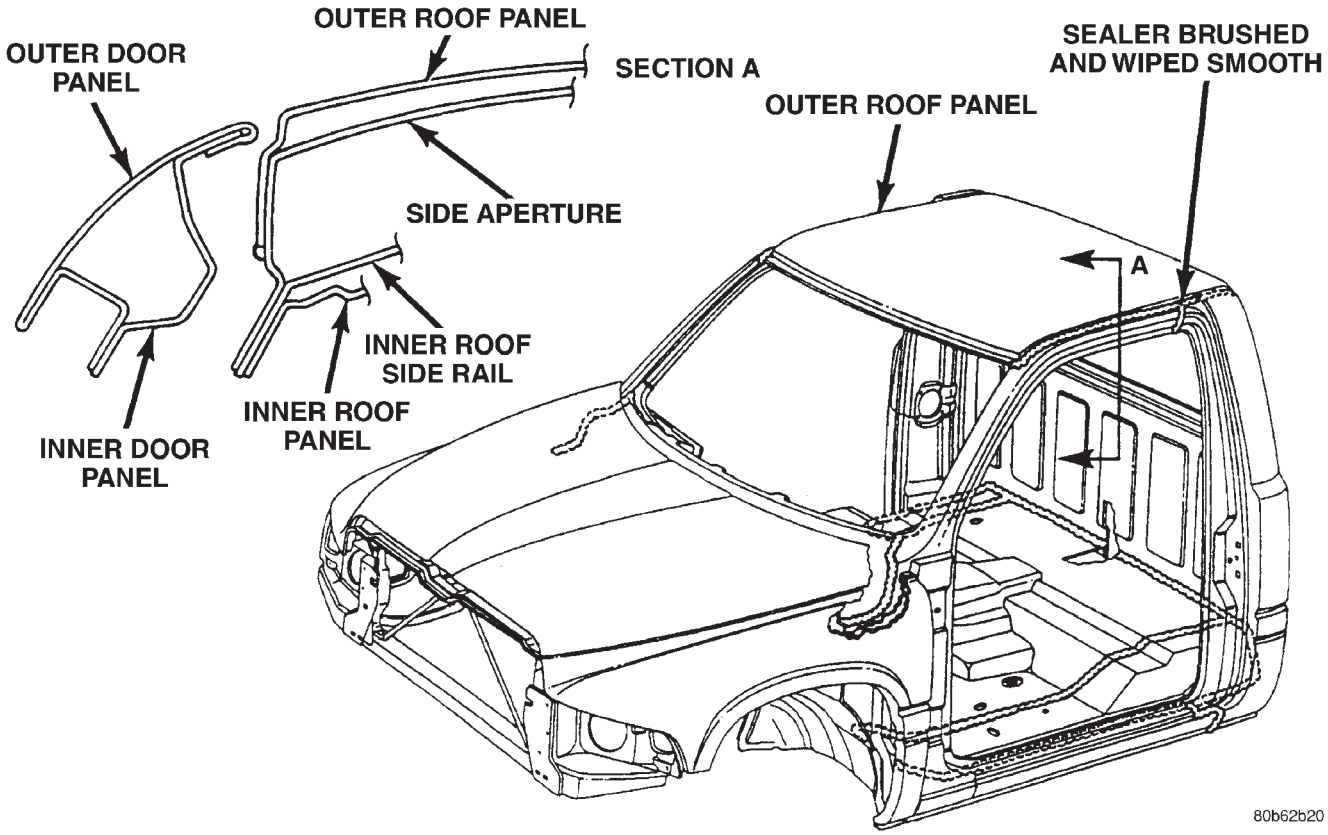


CAB BACK PANEL

BODY (Continued)

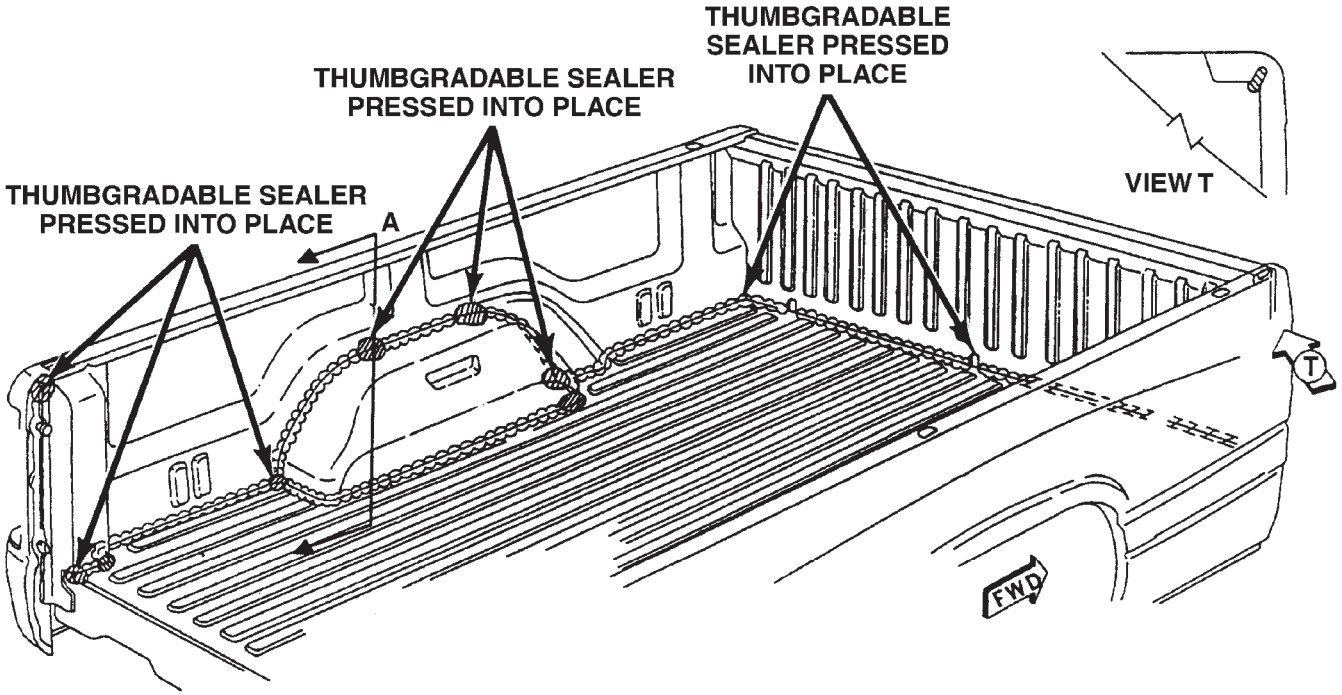


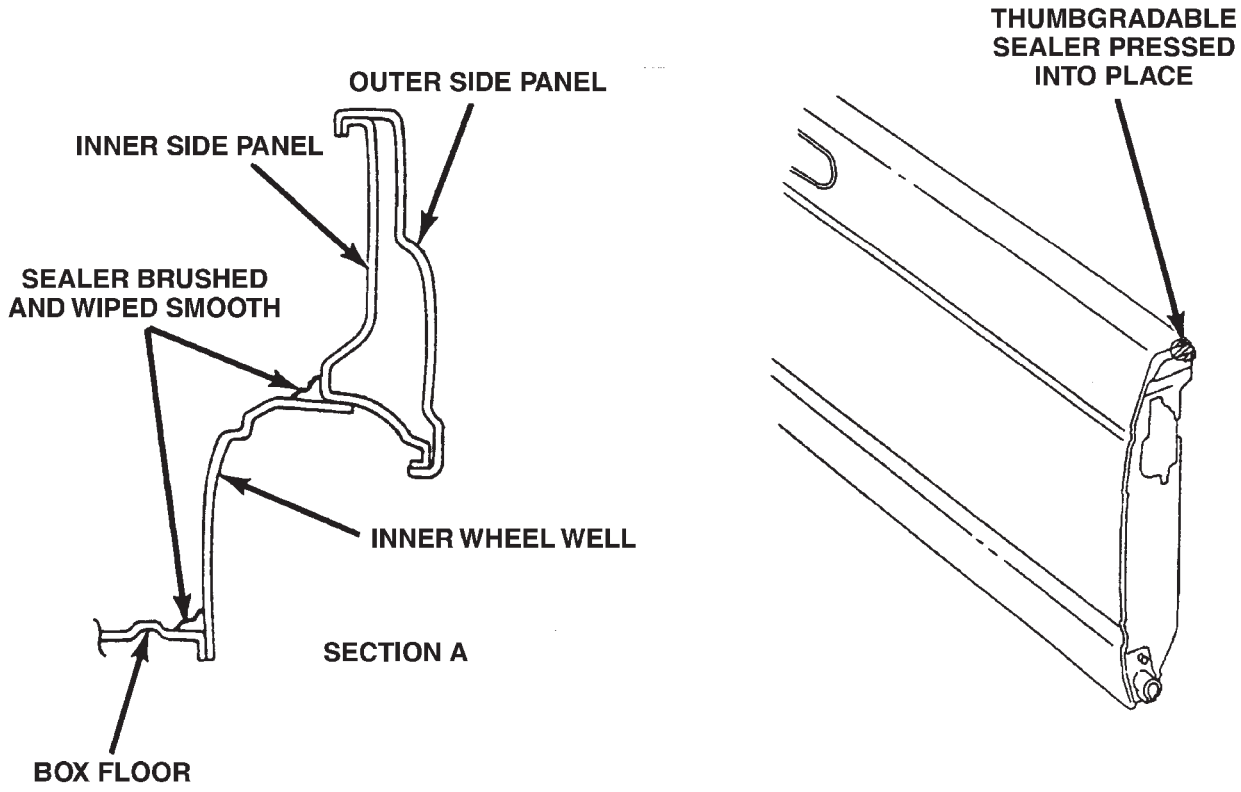
CAB REAR PANEL



ROOF PANEL

BODY (Continued)





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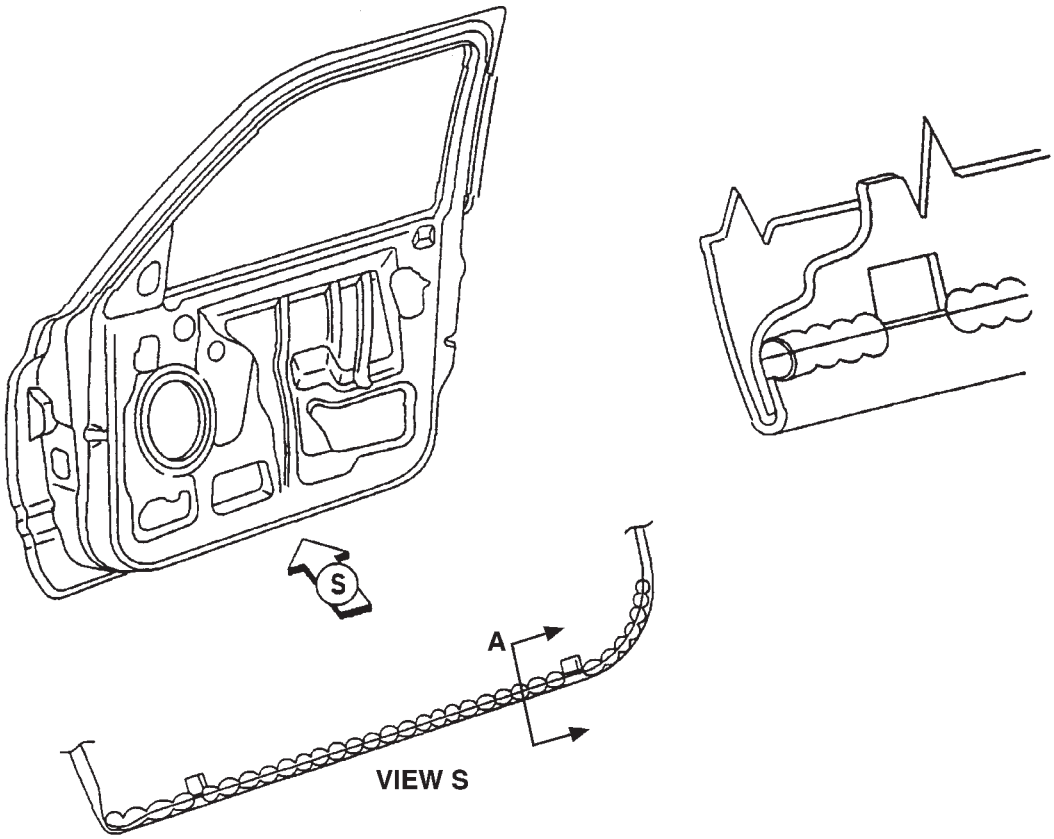
CARGO BOX

BODY (Continued)



809db9e6

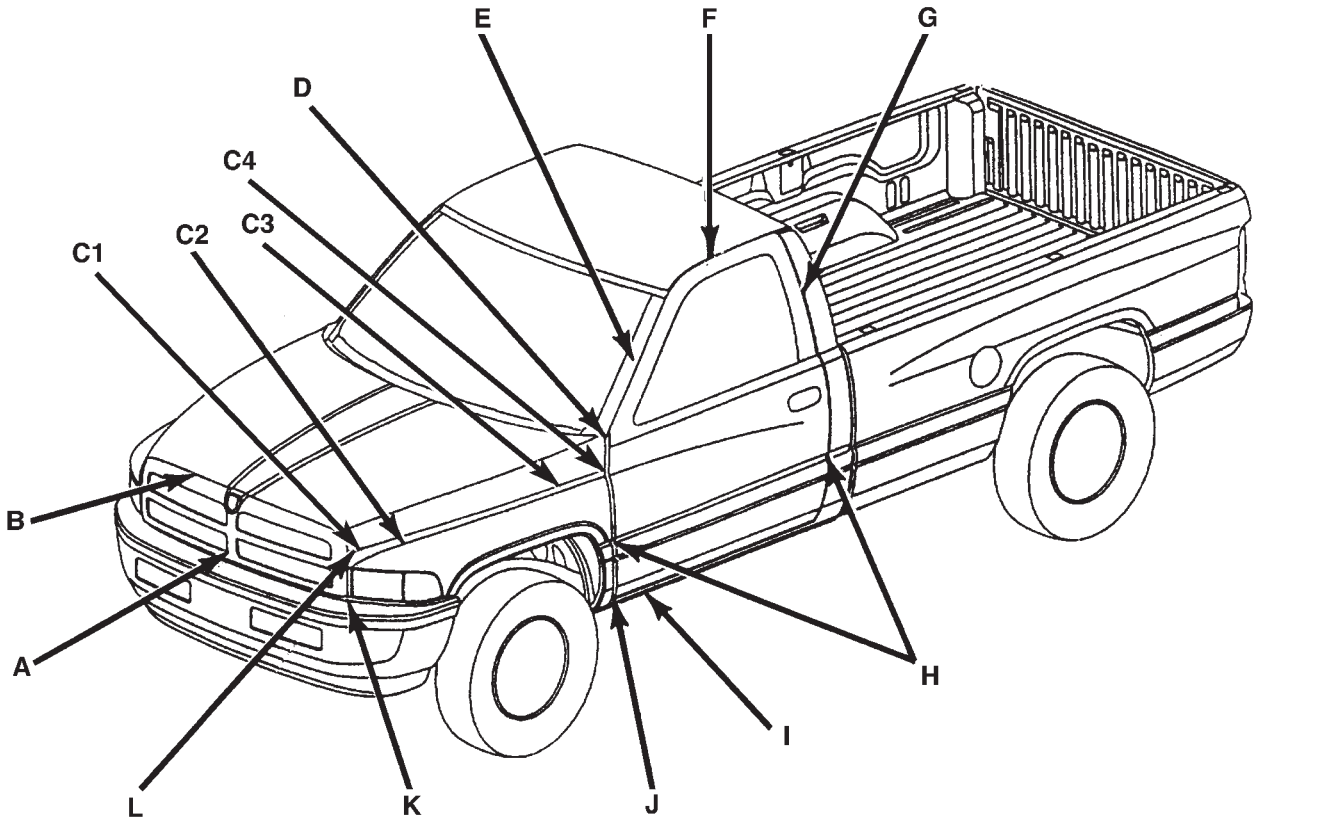
DOORS

BODY (Continued)

BODY GAP AND FLUSH MEASUREMENTS

REGULAR CAB

NOTE: All measurements are in MM.



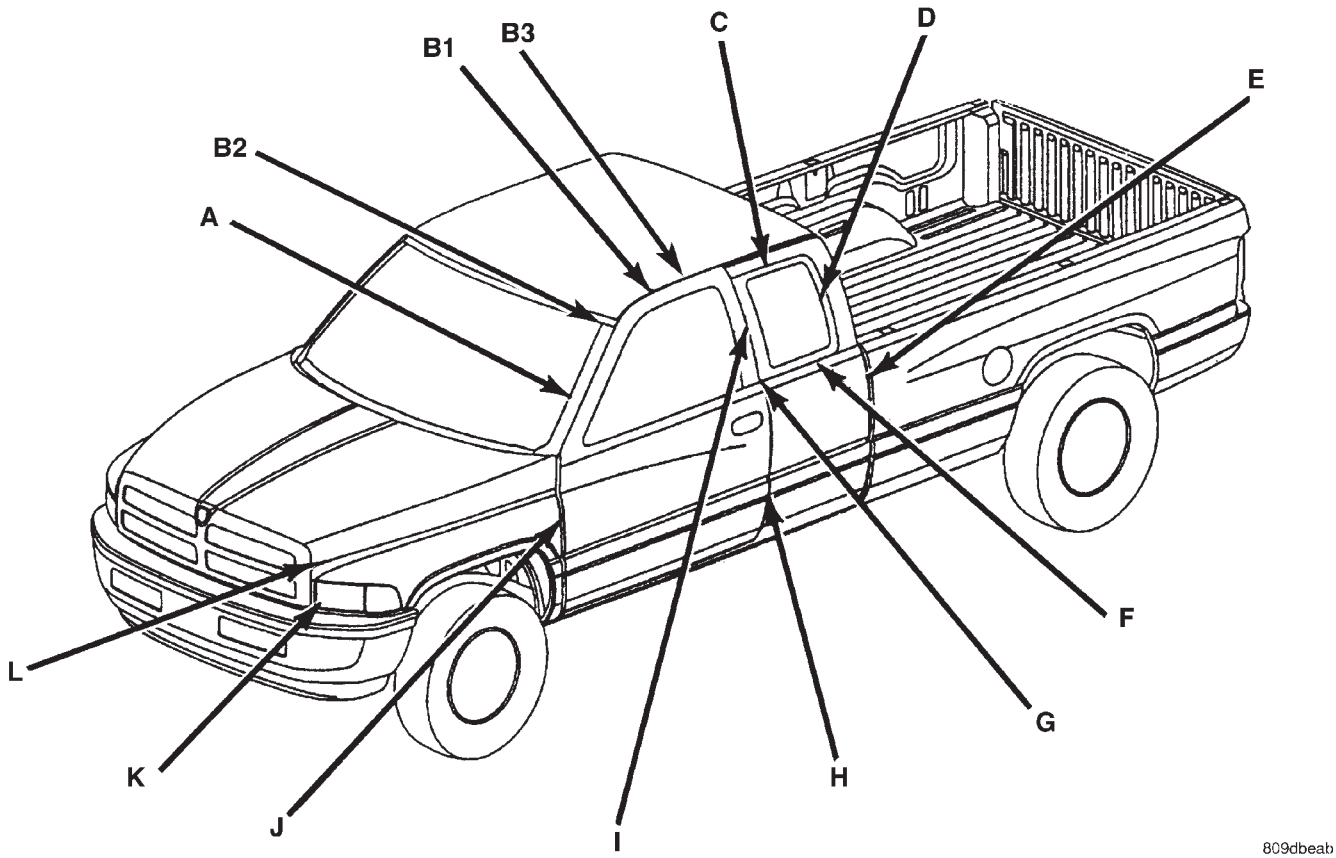
REGULAR CAB

	DESCRIPTION	GAP	FLUSH
A	Grille to Fascia	19.0 +/- 3.0	N/A
B	Hood to Grille	1.0 +/- 0.75	0.0 + 0.0/- 1.0
C1	Hood to Fender	6.0 +/- 1.0	1.5 +/- 1.0
C2	Hood to Fender	6.0 +/- 1.0	3.5 +/- 1.0
C3	Hood to Fender	6.0 +/-1.0	1.5 +/- 1.0
C4	Hood to Fender	6.0 +/- 1.0	1.5 +/- 1.0
D	Door to Hood/Fender	5.0 +/- 1.0	0.0 +/- 1.0
E	Door to Windshield Molding	N/A	2.0 +/- 2.0
F	Door to Roof	6.0 +/- 1.5	2.0 +/- 1.0
G	Door to Quarter	5.0 +/- 1.0	0.0 +/- 1.0
H	Fender/Door/Quarter Char Line U/D	N/A	0.0 +/- 1.0
I	Door to Sill	7.7 +/- 2.0	0.0 +/- 1.5
J	Fender to Aperture	5.0 +/- 1.0	0.0 +/- 1.0
K	Grille to Headlamp	6.0 +/- 3.0	N/A
L	Grille to Fender	5.0 +/- 0.75	1.0 +/- 0.5

BODY (Continued)

CLUB CAB

NOTE: All measurements are in MM.



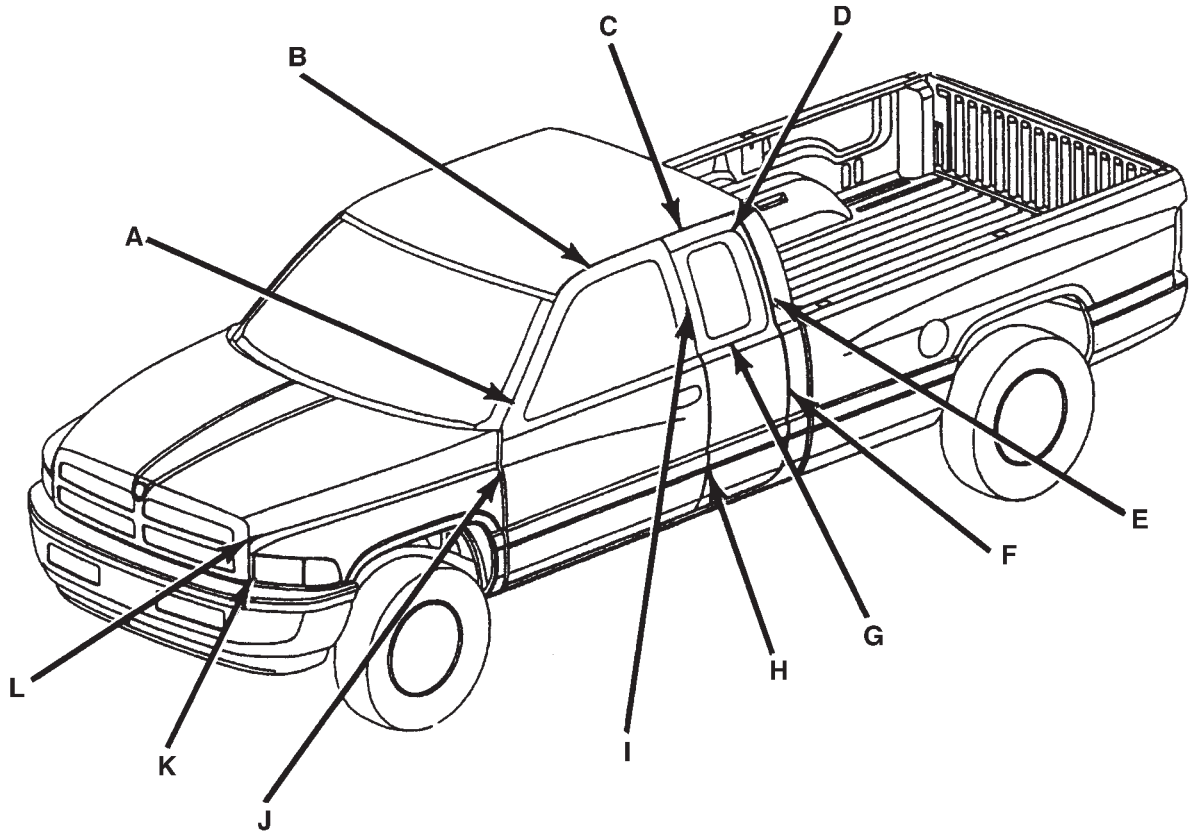
CLUB CAB

	DESCRIPTION	GAP	FLUSH
A	Door to Windshield Molding	N/A	2.0 +/- 2.0
B1	Door to Roof	5.0 +/- 1.5	0.0 +/- 1.0
B2	Door to Roof	5.0 +/- 1.5	1.4 ± 1.0 CONS. W/IN 1.5
B3	Door to Roof	5.0 +/- 1.5	4.1 ± 1.0 CONS. W/IN 1.5
C	Quarter Glass to Quarter (top)	5.0 +/- 1.0	3.5 +/- 1.5
D	Quarter Glass to Quarter (rear)	5.0 +/- 2.0	3.25 +/- 1.5
E	Cab to Box (side view)	31.0 +/- 3.0	3.25 +/- 2.5
F	Quarter Glass to Quarter (bottom)	5.0 +/- 1.5	N/A
G	Quarter Glass to Quarter (front)	in-line within +/- 1.0	
H	Door to Quarter	5.0 +/- 1.0	0.0 +/- 1.0
I	Quarter Glass to Door	N/A	2.0 +/- 1.5
J	Door to Hood/Fender	5.0 +/- 1.0	0.0 +/- 1.0
K	Grille to Headlamp	6.0 +/- 3.0	N/A
L	Grille to Fender	5.0 +/- 0.75	1.0 +/- 0.5

BODY (Continued)

QUAD CAB

NOTE: All measurements are in MM.



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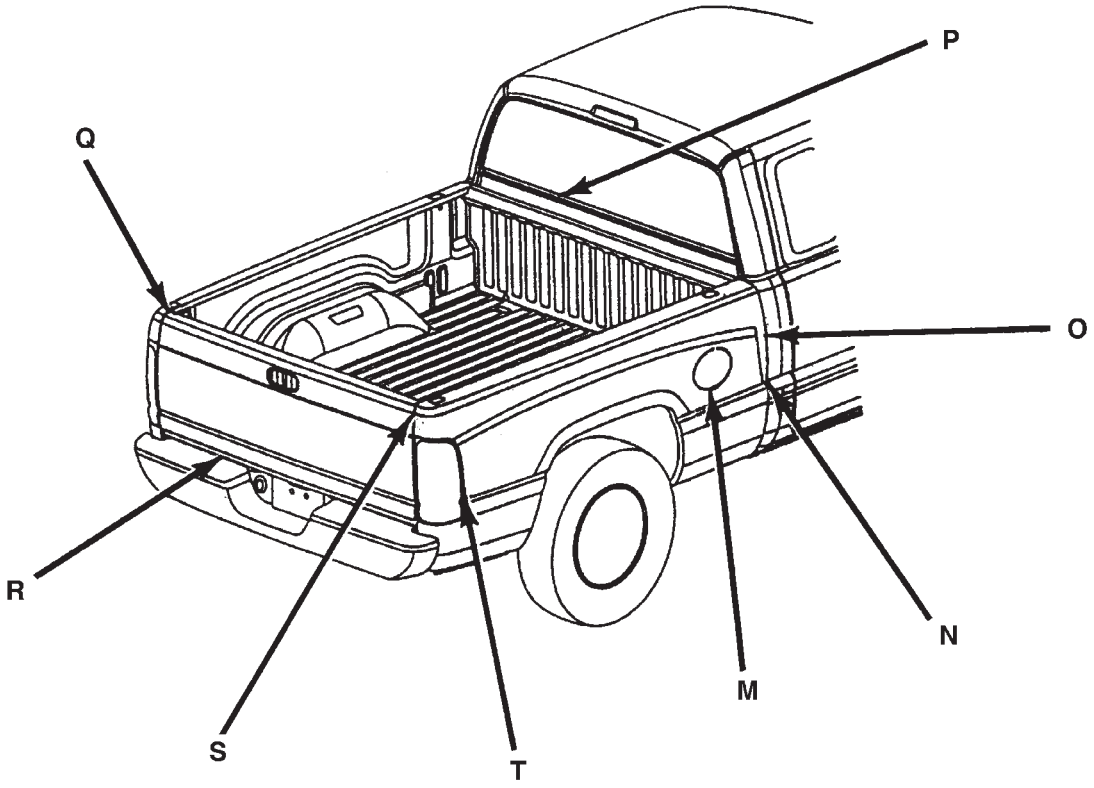
QUAD CAB

	DESCRIPTION	GAP	FLUSH
A	Door to Windshield Molding	N/A	2.0 +/- 2.0
B	Front Door to Roof	5.0 +/- 1.5	0.0 +/- 1.0
C	Rear Door to Roof	5.0 +/- 1.0	0.0 +/- 1.0
D	Rear Door Glass to Rear Door (top)	5.0 +/- 1.0	3.25 +/- 1.5
E	Rear Door Glass to Rear Door (rear)	5.0 +/- 2.0	3.25 +/- 1.5
F	Rear Door to Quarter	5.5 +/- 1.0	0.0 +/- 1.0
G	Rear Door Glass to Rear Door (bottom)	5.0 +/- 1.5	N/A
H	Front Door to Rear Door	5.0 +/- 1.0	0.0 +/- 1.0
I	Rear Door Glass to Rear Door (front)	in-line within +/- 1.0	
	Rear Door Glass to Front Door	N/A	3.25 +/- 1.5
J	Door to Hood/Fender	5.0 +/- 1.0	0.0 +/- 1.0
K	Grille to Headlamp	6.0 +/- 3.0	N/A
L	Grille to Fender	5.0 +/- 0.75	1.0 +/- 0.5

BODY (Continued)

CARGO BOX

NOTE: All measurements are in MM.



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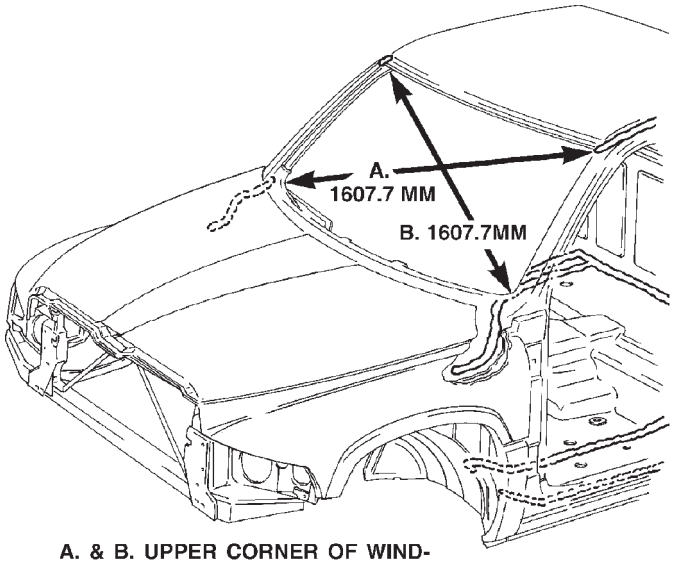
UNDER CONSTRUCTION

	DESCRIPTION	GAP	FLUSH
M	Fuel Filler Door to Box	3.0 +/- 0.75	0.0 +/- 3.0
N	Cab to Box Character Line U/D	N/A	0.0 +/- 3.0
O	Cargo to Box (side)	31.0 +/- 3.0	5.0 +/- 2.5
P	Cab to Box at Centerline	34.0 +/- 3.0	N/A
Q	Box to Tailgate U/D	N/A	1.0 +/- 1.5
R	Tailgate to Bumper	43.0 +/- 3.0	N/A
S	Box to Tailgate	6.0 +/- 1.5	1.0 +/- 1.5
T	Box to Tailgate	1.0 +/- 1.0	4.0 +/- 1.5

BODY (Continued)

BODY OPENING DIMENSIONS



A. & B. UPPER CORNER OF WINDSHIELD OPENING TO TOP OF RADIUS AT LOWER CORNER OF OPENING.

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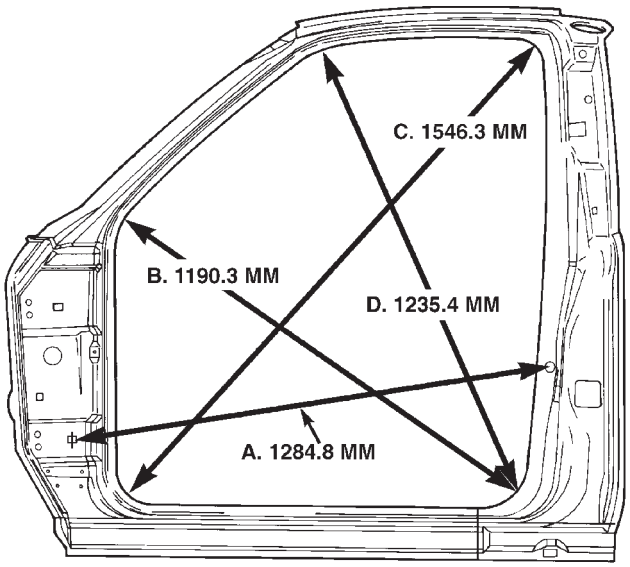
WINDSHIELD OPENING



A. Centerline of A—Pillar gaging hole to centerline of seat belt retractor hole at B—Pillar.
B. Centerline of radius at rear lower door opening flange inner edge to center of radius at cowl flange edge.
C. Centerline of radius at front lower door opening flange inner edge to center of radius at upper opening rear flange inner edge.
D. Centerline of radius at rear lower door opening flange inner edge to center of radius at upper front flange inner edge.

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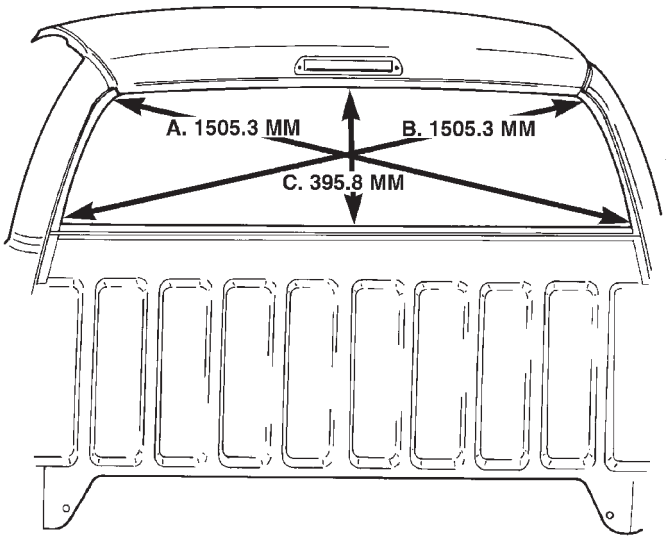
DOOR OPENING - REGULAR CAB



REAR VIEW

A & B. Center of radius at top corner to center of radius at lower corner of glass mounting flange.
C. Lower edge of upper back glass mounting flange to upper edge of lower back glass mounting flange measurement taken at centerline of rear glass opening.

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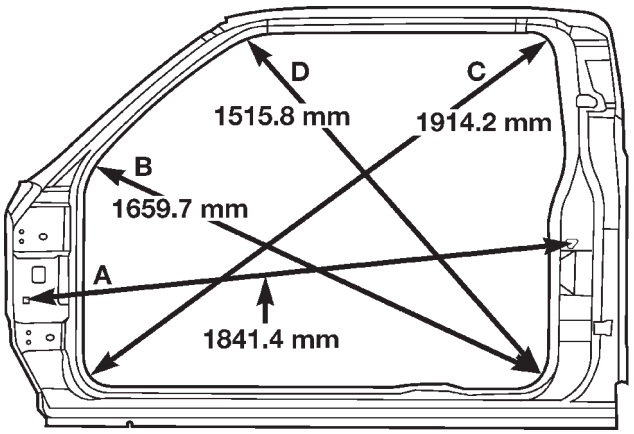
BACKLITE OPENING



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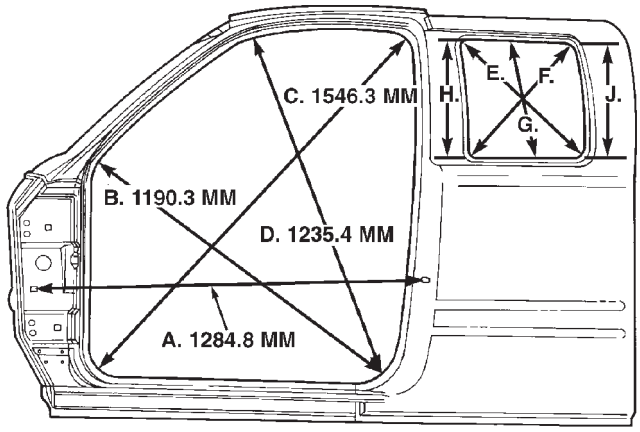
DOOR OPENING - QUAD CAB

BODY (Continued)



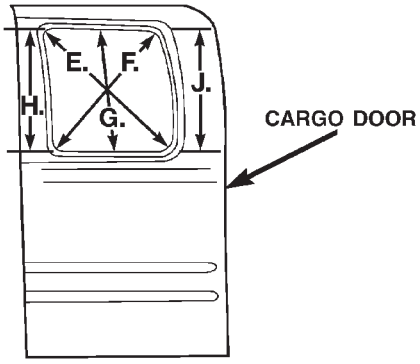
LH SIDE VIEW

A. Centerline of A—Pillar gaging hole to centerline of seat belt retractor hole at B—Pillar.
B. Center of radius at rear lower door opening flange inner edge to center of radius at cowl flange edge.
C. Center of radius at front lower door opening flange inner edge to center of radius at upper opening rear flange inner edge.
D. Center of radius at rear lower door opening flange inner edge to center of radius at upper front flange inner edge.
E. Lower rear corner inner flange edge to upper front corner inner flange edge of quarter glass opening.
F. Lower front corner inner flange edge to upper rear corner inner flange edge of quarter glass opening.
G. Upper inner flange lower edge to lower flange upper edge of quarter glass opening.

803f586e

DOOR OPENING AND QUARTER GLASS OPENING — CLUB CAB

A. 1284.8 MM	**D. 1235.4 MM**	**G. 436.2 MM**
B. 1190.3 MM	**E. 582.6 MM**	**H. 440.5 MM**
C. 1546.3 MM	**F. 538.8 MM**	**J. 426.8 MM**



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CARGO DOOR QUARTER GLASS OPENING

E. 484.14 MM	**H. 427.28 MM**
F. 456.83 MM	**J. 418.38 MM**
G 424.97 MM	

TORQUE SPECIFICATIONS

BODY COMPONENTS

Description	N·m	Ft. lbs.	In. lbs.
Ash receiver flame shield screws	2	—	20
Bench seat back latch bolts	25	18	—
Bench seat back to cushion pivot bolt	25	18	—
Bench seat front anchor bolt	54	40	—
Bench seat rear inboard anchor nut	40	30	—
Bench seat rear outboard anchor nut	54	40	—
Bench seat riser front bolts	54	40	—
Bench seat riser rear inboard nuts	40	30	—
Bench seat riser rear outboard nuts	54	40	—
Bench seat slider bolts	10	—	89
Bench seat/front seat track to frame bolt	25	18	—
Bench seat/inboard belt buckle anchor bolt	40	30	—
Bench seat/rear seat track to frame bolt	25	18	—
Cab mounting bolts	81	60	—
Cargo box frame bolts	54	40	—
Cargo door hinge bolts	28	21	—
Cargo door lower latch nuts	28	21	—
Cargo door lower striker screws	28	21	—
Cargo door upper larch bolts	23	17	—
Cargo door upper striker bolts	23	17	—
Cargo door vent window latch to glass screws	5	—	44
Center seat armrest latch cover fastener	4	—	35
Center seat armrest/ console bolts	20	15	—

BODY (Continued)

Description	N·m	Ft. lbs.	In. lbs.
Center seat/seat frame bolts	25	18	—
Cubby bin screws	2	—	20
Cup holder screws	2	—	20
Door hinge to A-pillar bolt	28	21	—
Door latch screw	11	8	—
Door latch striker screw	28	21	—
Easy entry track/ adjuster track bolts - front	17	12	—
Easy entry track/ adjuster track bolts - rear inboard	21	16	—
Easy entry track/ adjuster track bolts - rear outboard	45	33	—
Front belt buckle inboard anchor nut	45	33	—
Front belt retractor anchor bolt	39	28	—
Front door glass lift plate nuts	9	—	80
Front door latch screws	10	—	89
Front shoulder belt anchor bolt	45	33	—
Front shoulder belt lower anchor bolt	39	28	—
Front shoulder belt lower anchor bolt	45	33	—
Front shoulder belt upper anchor bolt	39	28	—
Glove box bin/door screws	2	—	20
Glove box latch striker screws	2	—	20
Glove box opening trim screws	2	—	20
Headlamp/dash wire harness bulkhead connector screw	3.5	—	31
Hood latch release handle screws	3	—	25
Inboard seat back pivot bolt	50	36	—
Instrument panel roll down bracket screws	12	9	105

Description	N·m	Ft. lbs.	In. lbs.
Instrument panel top cover screws	2	—	20
Instrument panel/dash panel screws	3	—	28
Manual transmission shifter knob nut	27	20	—
Quarter vent window hinge nuts	8	—	70
Quarter vent window latch to glass screws	6	—	60
Rear seat support bracket screws	28	21	—
Rear view mirror set screw	1	—	15
Seat adjuster track/seat cushion frame screws	25	18	—
Seat cushion frame/ mounting bracket bolts	25	18	—
Seat cushion frame/ power track crossbrace bolts	10	—	89
Seat track adjuster bolts	17	12	—
Seat track bolts	25	18	—
Seat track/frame bolts	25	18	—
Slide bar bolts	10	—	89
Sliding backlite latch/keeper screws	1.5	—	15
Split bench seat back shoulder bolt	49	36	—
Split bench seat back to cushion pivot bolt	25	18	—
Split bench seat front anchor bolt	54	40	—
Split bench seat rear inboard anchor nut	40	30	—
Split bench seat rear outboard anchor nut	54	40	—
Split bench seat track to frame bolt	25	18	—
Split bench/bottom of center occupant seat bolt	28	21	—
Steering column cover screws	2	—	20
Storage bin screws	2	—	20

DECKLID/HATCH/LIFTGATE/TAILGATE

TABLE OF CONTENTS

APPLIQUE

REMOVAL

(1) Apply a length of masking tape on the body, parallel to the top edge of the applique to use as a guide, if necessary.

(2) Warm the tailgate applique and tailgate metal to approximately 38°C (100°F) using a suitable heat lamp or heat gun.

(3) Pull applique from tailgate (Fig. 1).

INSTALLATION

(1) Remove adhesive tape residue from painted surface of tailgate.

(2) If applique is to be reused, remove tape residue from applique. Clean back of applique 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 applique.

(3) Clean tailgate surface with MOPAR®, Super Kleen solvent or equivalent. Wipe surface dry with lint free cloth. An adhesion promoter must be applied to ensure proper applique adhesion.

(4) Remove protective cover from tape on back of applique. Apply applique to body below the masking tape guide (Fig. 1).

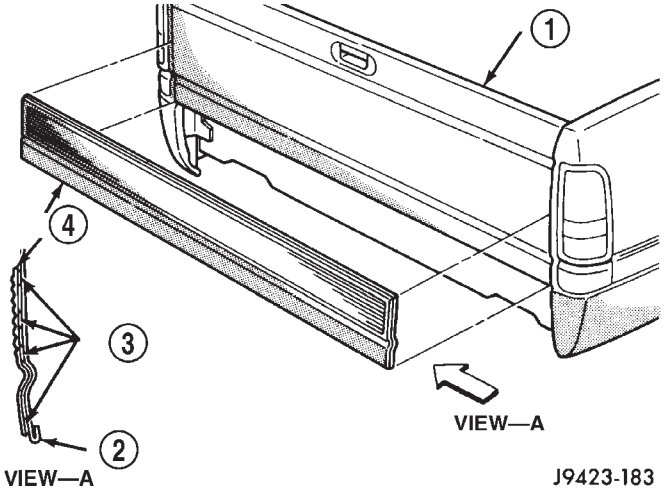

Fig. 1 Tailgate Applique

1 - TAILGATE
2 - TAILGATE
3 - ADHESIVE TAPE
4 - APPLIQUE

(5) Remove masking tape guide and heat tailgate and applique, see step one. Firmly press applique to tailgate to assure adhesion.

DECALS

REMOVAL

(1) Warm the panel to approximately 38°C (100°F) using a suitable heat lamp or heat gun.
(2) Peel tape stripe from body panel using an even pressure pull.
(3) Remove adhesive residue from body panel using a suitable adhesive removing solvent.

INSTALLATION

(1) Clean painted body surface with Mopar® Super Clean solvent or equivalent and a lint free cloth.
(2) Remove protective cover from back side of decal.
(3) Position decal properly on body.
(4) Press decal firmly to body with palm of hand.
(5) If temperature is below 21°C (70°F) warm decal with a heat lamp or gun to assure adhesion. Do not exceed 65°C (150°F) when heating emblem.

HANDLE ESCUTCHEON

REMOVAL

(1) Lift and hold tailgate latch release handle.
(2) Using a trim stick (C–4755), pry bottom of escutcheon outward to disengage clips.
(3) Rotate escutcheon upward to disengage clip above release handle.
(4) Push escutcheon downward from behind to clear handle.
(5) Separate escutcheon from tailgate (Fig. 2).

INSTALLATION

(1) Insert upper ends of escutcheon into handle opening.
(2) Lift escutcheon upward from behind release handle.
(3) Press bottom of escutcheon inward to engage clips.

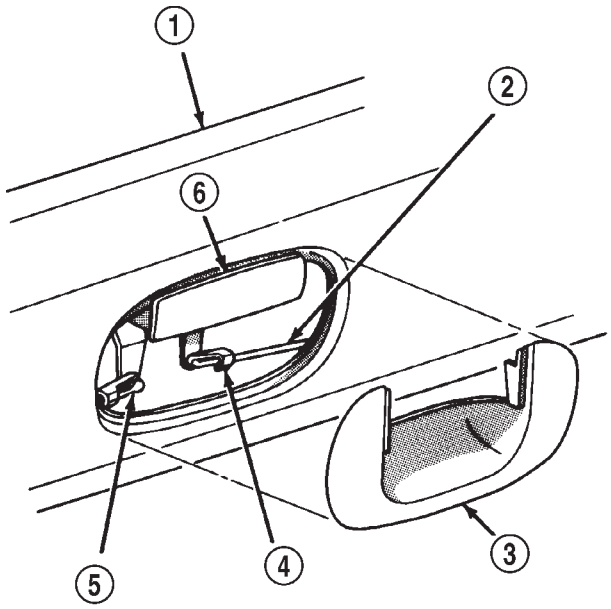

Fig. 2 Tailgate Handle Escutcheon

1 - TAILGATE
2 - HANDLE—TO—RIGHT LATCH CONTROL ROD
3 - ESCUTCHEON
4 - LATCH ROD RETAINER
5 - HANDLE—TO—LATCH CONTROL ROD AND RETAINER
6 - HANDLE

LATCH

REMOVAL

(1) Remove tailgate latch handle escutcheon (Refer to 23 - BODY/DECKLID/HATCH/LIFTGATE/TAILGATE/HANDLE ESCUTCHEON - REMOVAL).
(2) Open tailgate.
(3) Disengage linkage rod from latch handle.
(4) Remove screws attaching latch to tailgate (Fig. 3).
(5) Separate latch from tailgate.
(6) Pull latch and linkage rod from tailgate (Fig. 4).

INSTALLATION

(1) Position latch and linkage rod in tailgate.
(2) Install upper screw attaching latch to tailgate.
(3) Install lower screw attaching check cable and latch to tailgate.
(4) Engage linkage rod to latch handle.
(5) Install tailgate latch handle escutcheon (Refer to 23 - BODY/DECKLID/HATCH/LIFTGATE/TAILGATE/HANDLE ESCUTCHEON - INSTALLATION).

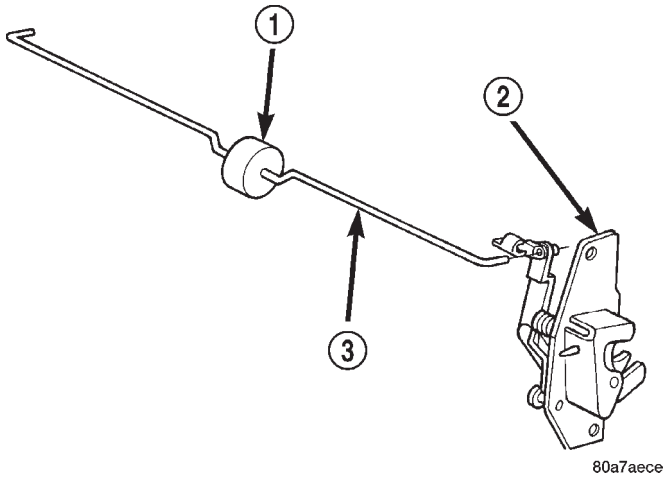

Fig. 4 Tailgate Latch and Linkage Rod

1 - SILENCER
2 - LATCH ASSEMBLY
3 - LINKAGE ROD

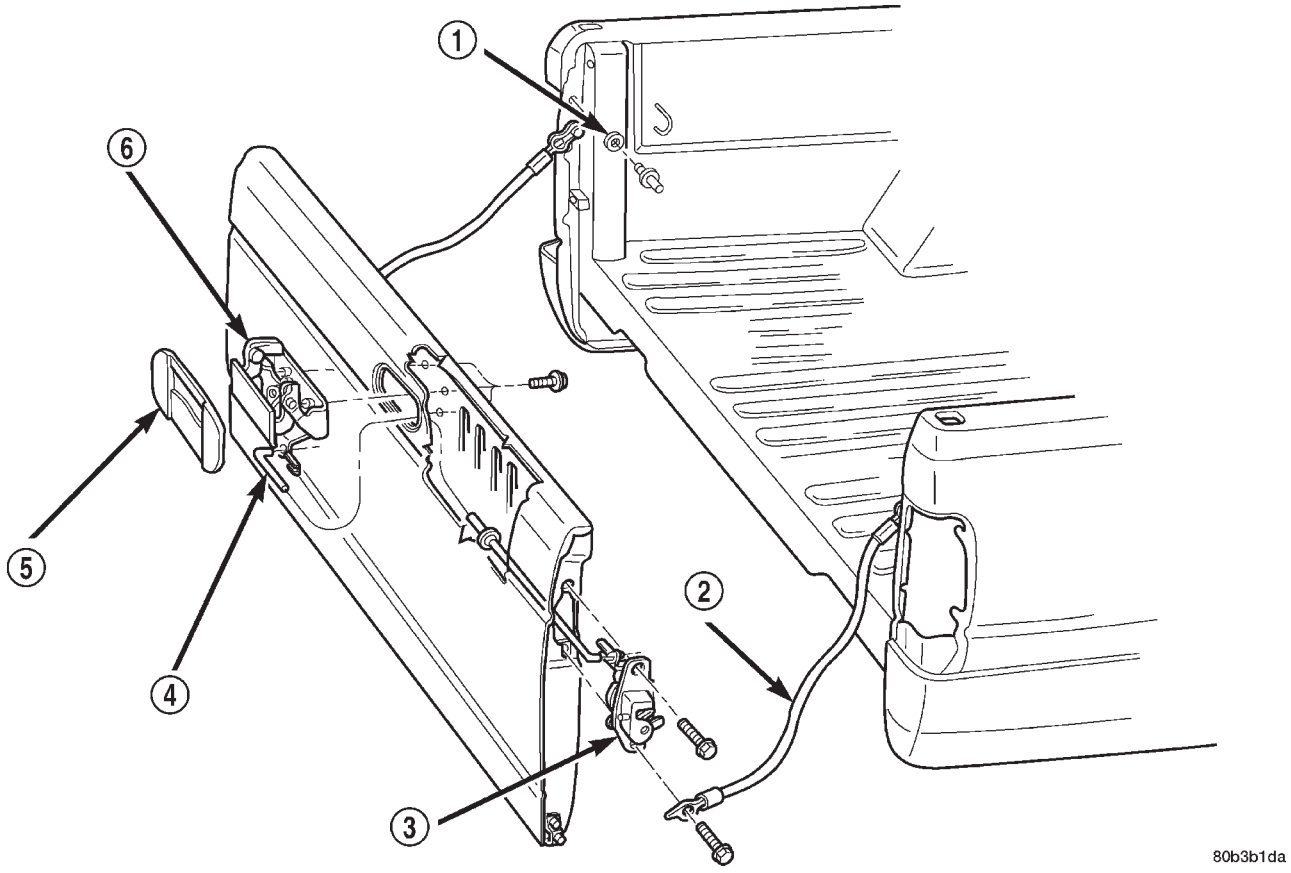

Fig. 3 Tailgate Latch

1 - SPACER
2 - CHECK CABLE
3 - LATCH
4 - LINKAGE ROD
5 - HANDLE ESCUTCHEON
6 - LATCH HANDLE

LATCH HANDLE

REMOVAL

(1) Remove tailgate latch handle escutcheon (Refer to 23 - BODY/DECKLID/HATCH/LIFTGATE/TAILGATE/HANDLE ESCUTCHEON - REMOVAL).
(2) Disengage clips holding linkage rods to latch handle.
(3) Separate linkage rods from handle.
(4) Remove screws attaching latch handle to tailgate (Fig. 5).
(5) Separate latch handle from tailgate.

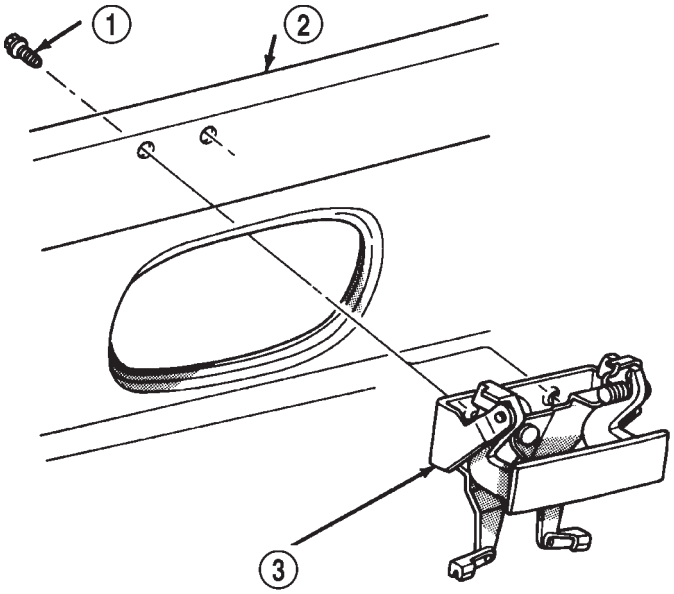

Fig. 5 Tailgate Latch Handle

1 - SCREW
2 - TAILGATE
3 - HANDLE ASSEMBLY

INSTALLATION

(1) Position latch handle in tailgate.
(2) Install screws attaching latch handle to tailgate.
(3) Install linkage rods to latch handle.
(4) Engage clips to linkage rods.
(5) Install tailgate latch handle escutcheon. (Refer to 23 - BODY/DECKLID/HATCH/LIFTGATE/TAILGATE/HANDLE ESCUTCHEON - INSTALLATION)

LATCH STRIKER

REMOVAL

(1) Open tailgate.
(2) Mark outline of striker on cargo box jamb to aid installation.
(3) Using a Torx drive wrench, remove striker and washer from cargo box (Fig. 6) .

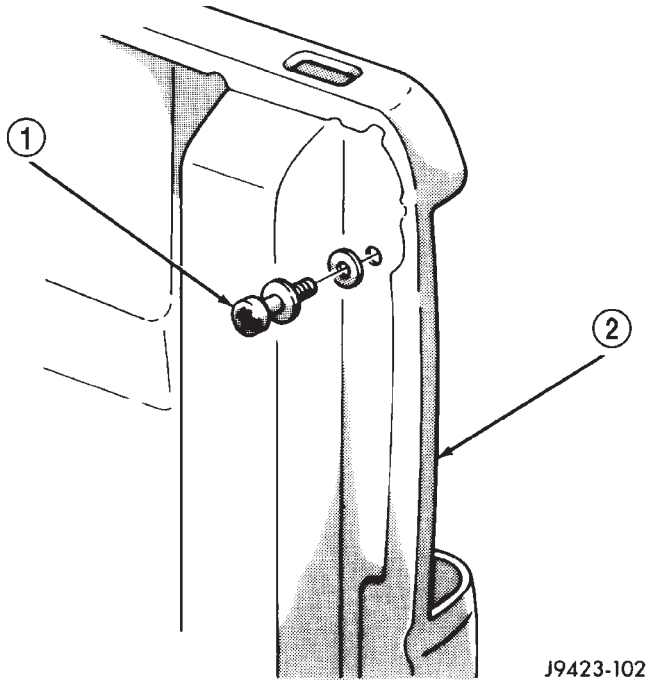

Fig. 6 Tailgate Striker

1 - TAILGATE STRIKER
2 - CARGO BOX

INSTALLATION

(1) Position striker and washer on jamb using alignment outline as reference and install with Torx drive wrench.

SLAM BUMPER

REMOVAL

(1) Open tailgate.
(2) Remove screw holding slam bumper to cargo box (Fig. 7).
(3) Separate slam bumper from vehicle.

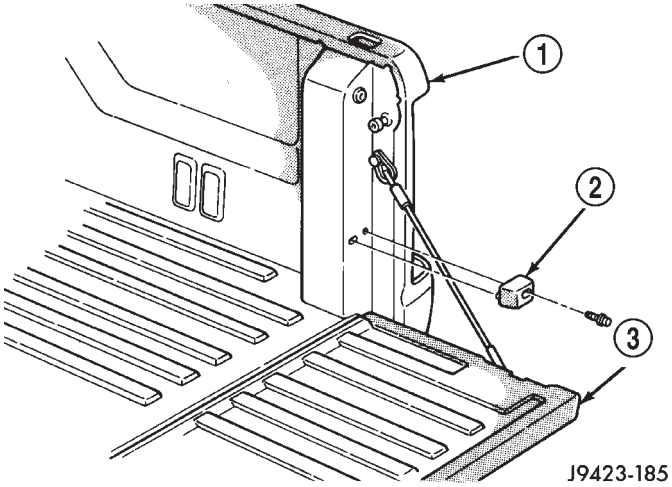

Fig. 7 Tailgate Slam Bumper

1 - CARGO BOX
2 - SLAM BUMPER
3 - TAILGATE

INSTALLATION

(1) Position slam bumper on vehicle.
(2) Install screw holding slam bumper to cargo box.
(3) Close tailgate and verify operation.

CHECK CABLE

REMOVAL

(1) Open tailgate.
(2) Pry lock tab outward to clear stud head on cargo box (Fig. 8).
(3) Push cable end forward until stud head is in clearance hole portion of cable end.
(4) Separate cable end from stud.
(5) Remove screw attaching cable to tailgate.
(6) Separate check cable from tailgate.

INSTALLATION

(1) Position check cable on tailgate.
(2) Install screw attaching small end of cable to tailgate.
(3) Position large end of cable onto stud head and slide downward to secure lock tab.

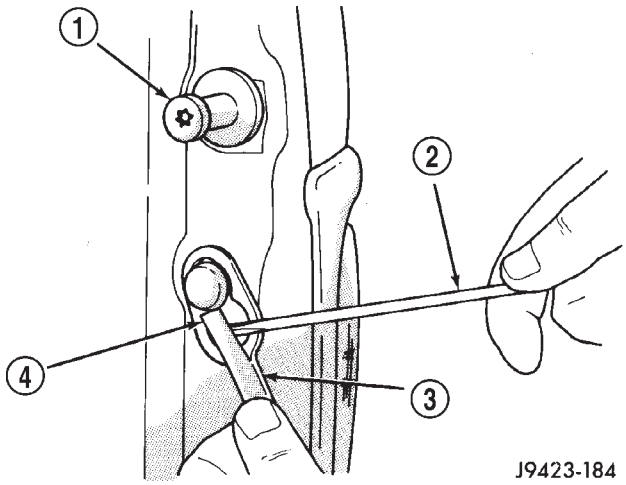

Fig. 8 Tailgate Check

1 - TAILGATE STRIKER
2 - SCREW DRIVER
3 - TAILGATE CHECK CABLE
4 - LOCK TAB

TAILGATE

REMOVAL

(1) Open tailgate.
(2) Disconnect tailgate marker light harness, if equipped.
(3) Remove tailgate check cables (Refer to 23 - BODY/DECKLID/HATCH/LIFTGATE/TAILGATE/ CHECK CABLE - REMOVAL).
(4) Close tailgate until the notch in the right hand collar aligns with the pivot pin.
(5) Slip tailgate hinge collar from pivot pins.
(6) Slide tailgate to the right and separate left hand collar from the pivot pin.
(7) Separate tailgate from vehicle.

INSTALLATION

(1) Position tailgate collar on left hand pivot pin and slide tailgate to the left.
(2) Raise tailgate until the notch in the right hand collar aligns with the pivot pin.
(3) Install tailgate check cables (Refer to 23 - BODY/DECKLID/HATCH/LIFTGATE/TAILGATE/ CHECK CABLE - INSTALLATION).
(4) Connect tailgate marker light harness, if equipped.

DOOR - FRONT

TABLE OF CONTENTS

APPLIQUE

REMOVAL

(1) Using a heat lamp, warm B-pillar to 38° C (100° F).

(2) Remove glass run weatherstrip (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR GLASS RUN WEATHERSTRIP - REMOVAL).

(3) Remove outer belt weatherstrip (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR OUTER BELT WEATHERSTRIP - REMOVAL).

(4) Using an even pressure pull, peel B-pillar applique away from the B-pillar.

INSTALLATION

Installation equipment needed:

- Lint free applicator cloth
- six inch applicator squeegee
- Piercing pin

(1) Clean B-pillar using Mopar Super Kleen or equivalent.

(2) Wipe surface with a lint free cloth.

(3) Using a heat gun, warm surface to 22° C (70° F).

(4) Fold down, up/down locator tab (1a or 1b) (Fig. 1) along crease.

(5) Remove carrier from adhesion strip (2).

(6) Using up/down locator tab (1a or 1b) and fore/aft locator tab (3a or 3b), position the applique on the upper portion of the B-pillar.

(7) Using the lower edge locator (4), position the applique on the lower portion of the B-pillar.

(8) Verify the applique is positioned correctly and press the adhesion strip (2) to the door to temporarily secure it in place.

(9) Remove the carrier for the applique.

(10) Holding the applique from the surface, apply firm downward pressure with a six inch applicator squeegee. Ensure the lower rear edge (4) is aligned correctly.

(11) Wrap edges around door to at least a 90° angle.

(12) Remove premask by pulling in a firm continuous manner from top down at 180°.

(13) Complete wrapping applique around the door edges.

APPLIQUE (Continued)

(14) Inspect for air bubbles. Small bubbles can be pierced with a sharp pin and smoothed out.

(15) Install outer belt weatherstrip (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR OUTER BELT WEATHERSTRIP - INSTALLATION).

(16) Install glass run weatherstrip (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR GLASS RUN WEATHERSTRIP - INSTALLATION).

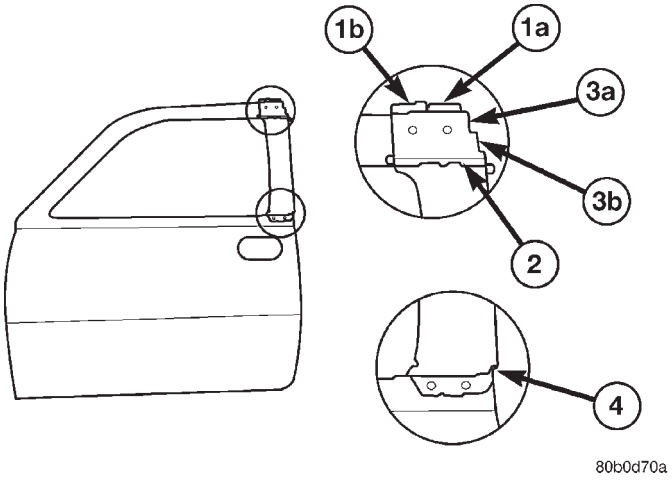

Fig. 1 B-Pillar Applique

1A = Club Cab - Up/Down
1B = Quad Cab - Up/Down
2 = Adhesion Strip
3A = Club Cab - For/Aft
3B = Quad Cab - For/Aft
4 = Rear Edge Locator

DOOR

REMOVAL

(1) Remove cowl trim panel (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - REMOVAL).

(2) Disengage door wire harness connector of instrument panel harness and push door harness through access hole in pillar.

(3) Remove hidden bolts attaching door hinge to hinge pillar from behind cowl panel (Fig. 2).

(4) Using a grease pencil or equivalent, mark the outline of the door hinges on the hinge pillar to aid installation.

(5) Support door on a suitable lifting device.

(6) Remove bolts attaching lower door hinge to hinge pillar (Fig. 3).

(7) While holding door steady on lift, remove bolts attaching upper door hinge to hinge pillar.

(8) Separate door from vehicle.

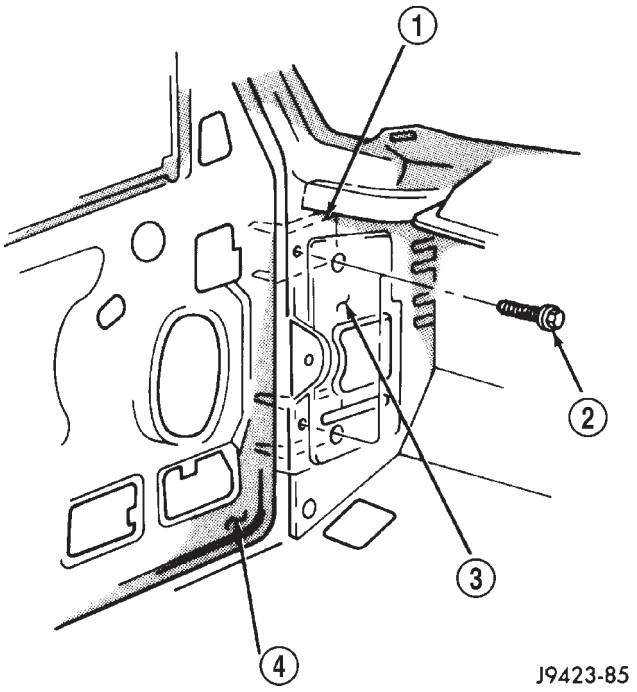

Fig. 2 Door Hinge Hidden Bolt

1 - HINGE
2 - DOOR HINGE SCREW
3 - A—PILLER
4 - DOOR

INSTALLATION

(1) While holding door steady on lift, position door at A-pillar.

(2) Align hinges using reference marks.

(3) Install bolts attaching upper door hinge to hinge pillar.

(4) Install bolts attaching lower door hinge to hinge pillar (Fig. 3).

(5) Install hidden bolts attaching door hinge to hinge pillar from behind cowl panel (Fig. 2).

(6) Align door to achieve equal spacing on all sides and flush across the gaps.

(7) Tighten hinge bolts to 28 N·m (21 ft. lbs.) torque.

(8) Route harness through door and engage door wire harness connector.

(9) Install cowl trim panel (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - INSTALLATION).

ADJUSTMENTS

ADJUSTMENT - FRONT DOOR FORE/AFT

Fore/aft (lateral) door adjustment is done by loosening the hinge to cowl screws one hinge at a time. Then move the door to the correct position.

(1) Support the door with a padded floor jack.

DOOR (Continued)

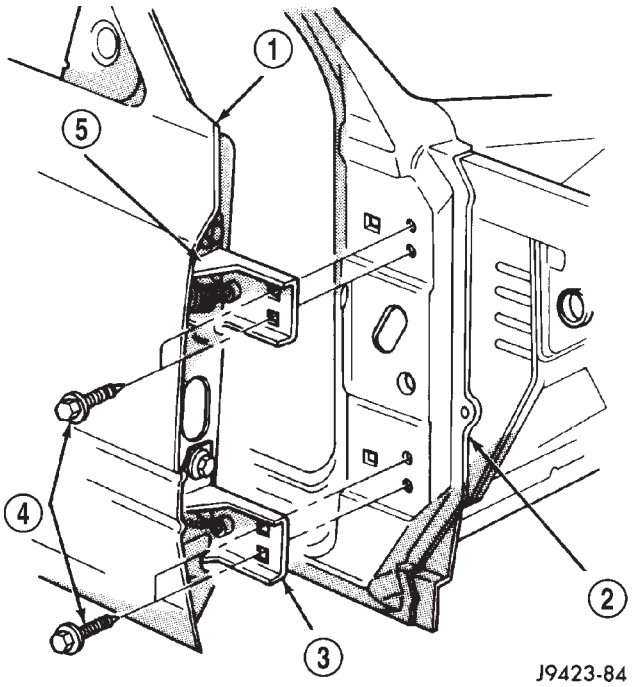

Fig. 3 Door

1 - DOOR
2 - A—PILLER
3 - LOWER DOOR HINGE
4 - SCREW
5 - UPPER DOOR HINGE

(2) Loosen the hinge to cowl screws, if necessary, refer to the front door hinge removal/installation procedure for hinge fastener location. Move the door to the correct fore/aft position.
(3) Tighten the hinge to cowl screws.
(4) Remove the floor jack from the door.

ADJUSTMENT - FRONT DOOR UP/DOWN

Up/down door adjustment is done by loosening the hinge to cowl fasteners at both hinges. Then move the door to the correct position.
(1) Support the door with a padded floor jack.
(2) Loosen hinge to cowl fasteners at both hinges. Move the door to the correct up/down position.
(3) Tighten the hinge to cowl fasteners.
(4) Remove the floor jack from the door.

ADJUSTMENT - FRONT DOOR IN/OUT

In/out door adjustment is done by loosening the hinge to door fasteners. Then move the door to the correct position.
(1) Support the door with a padded floor jack.
(2) Loosen the applicable hinge to door fasteners. Move the door to the correct in/out position.
(3) If necessary, loosen the other hinge to door fasteners and move the door to the correct in/out position.
(4) Tighten the hinge to door fasteners.
(5) Remove the floor jack from the door.

DOOR GLASS

REMOVAL

(1) Remove the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - REMOVAL).
(2) Remove inner door belt weatherstrip (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR INNER BELT WEATHERSTRIP - REMOVAL).
(3) Align door glass lift plate to access holes in inner door panel.
(4) Loosen bolts attaching front lower run channel to inner door panel.
(5) Remove nuts attaching door glass to lift plate (Fig. 4).
(6) Separate glass from lift plate.
(7) Lift glass upward and out of opening at top of door.

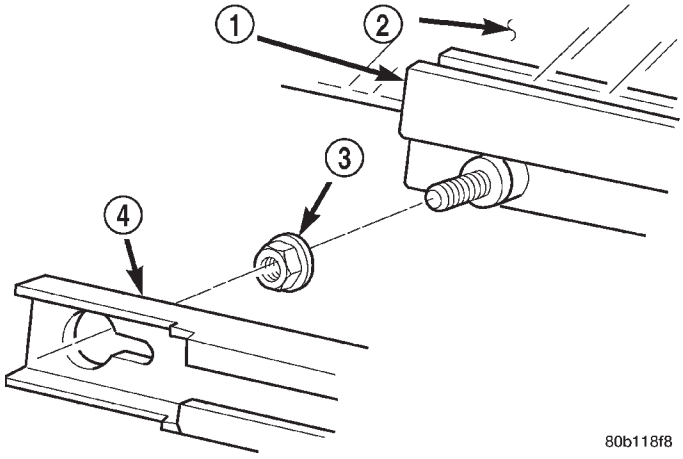

Fig. 4 Door Glass

1 - GLASS LIFT PLATE
2 - GLASS
3 - NUT
4 - REGULATOR ARM LOWER CHANNEL

INSTALLATION

(1) Position in door.
(2) Insert glass in lift plate.

CAUTION: Do not exceed 11 N·m (8 ft. lbs.) torque when tightening the nuts that attach the glass to the lift plate.

(3) Install nuts attaching glass to lift plate (Fig. 4). Tighten nuts to 9 N·m (80 in. lbs.) torque.
(4) Tighten bolts attaching front lower run channel to inner door panel.

DOOR GLASS (Continued)

(5) Install inner door belt weatherstrip (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR INNER BELT WEATHERSTRIP - INSTALLATION).

(6) Install the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - INSTALLATION).

EXTERIOR HANDLE

REMOVAL

(1) Remove the waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - REMOVAL).

(2) Raise the window to the closed position.

(3) Remove fastener access plug from door end panel.

(4) Disengage clips holding latch and lock rods to door latch.

(5) Separate latch and lock rods from door latch.

(6) Remove nuts attaching outside door handle to door (Fig. 5).

(7) Separate outside door handle from door.

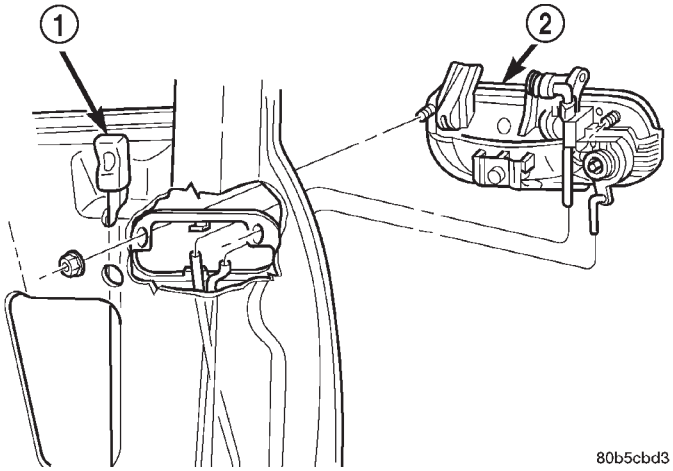

Fig. 5 Outside Door Handle

1 - LOCK KNOB
2 - OUTSIDE HANDLE

INSTALLATION

(1) Position outside door handle in door.

(2) Install nuts attaching outside door handle to door.

(3) Engage latch and lock rods to door latch.

(4) install access plug to door end panel.

(5) Install the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - INSTALLATION).

GLASS RUN CHANNEL

REMOVAL

(1) Remove the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - REMOVAL).

(2) Raise the window to the closed position.

(3) Remove bolts holding run channel to inner door panel (Fig. 6) and (Fig. 7).

(4) Slide channel downward to disengage it from the upper glass frame.

(5) Separate door glass run channel from door.

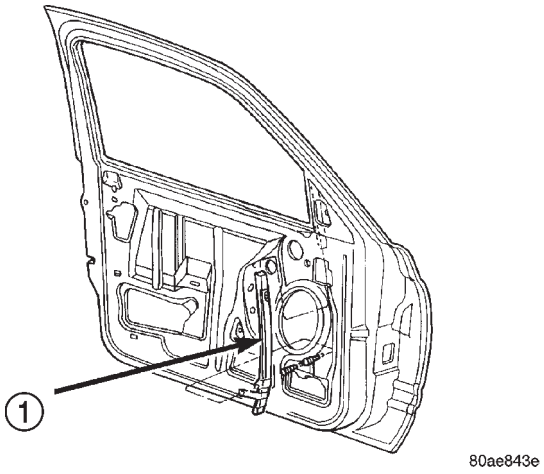

Fig. 6 Front Glass Run Lower Channel

1 - FRONT GLASS RUN CHANNEL

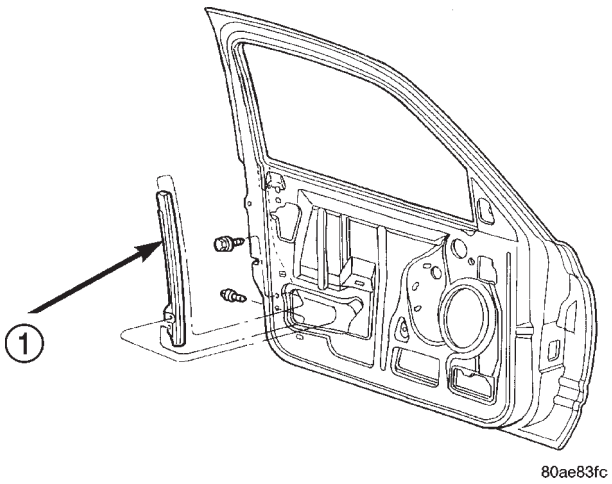

Fig. 7 Rear Glass Run Lower Channel

1 - REAR GLASS RUN CHANNEL

INSTALLATION

(1) Position door glass run channels on inner door panel.

(2) Slide channel upward to engage it in the upper glass frame.

(3) Install bolts attaching run channels to inner door panel (Fig. 6) and (Fig. 7).

(4) Install the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - INSTALLATION).

HINGE

REMOVAL

(1) Remove cowl trim panel (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - REMOVAL).
(2) Remove hidden bolt attaching door hinge to hinge pillar (Fig. 2).
(3) Support door on a suitable lifting device.
(4) Using a grease pencil or equivalent, mark the outline of the door hinge on the hinge pillar to aid installation.
(5) Remove bolts attaching door hinge to hinge pillar (Fig. 3).
(6) Remove nut and bolt attaching door hinge to door end frame (Fig. 8).
(7) Separate door hinge from vehicle.

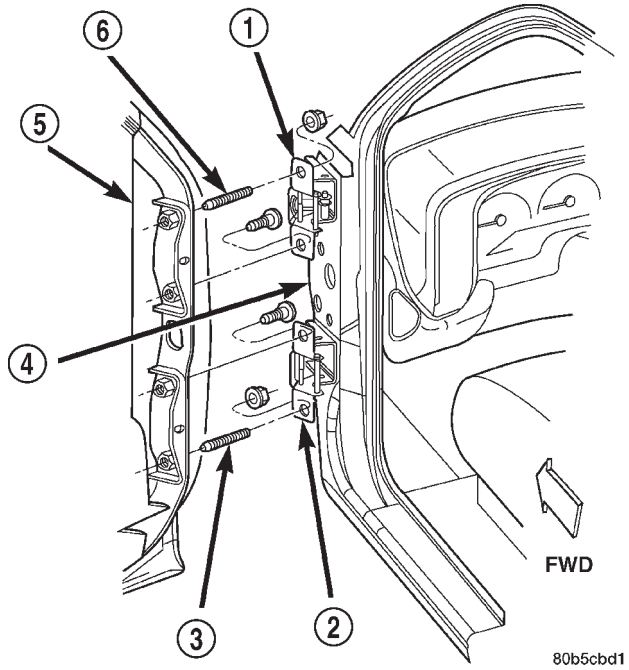

Fig. 8 Door Hinge

1 - UPPER HINGE
2 - LOWER HINGE
3 - STUD
4 - HINGE PILLAR
5 - DOOR
6 - STUD

INSTALLATION

(1) If necessary, paint replacement door hinge before installation.
(2) Position hinge on door end frame.
(3) Align hinge using reference marks.
(4) Install nuts and bolts attaching door hinge to door end frame. Tighten nuts and bolts to 28 N·m (21 ft. lbs.) torque.
(5) Install bolts attaching door hinge to hinge pillar. Tighten bolts to 28 N·m (21 ft. lbs.) torque.
(6) Install hidden bolt attaching door hinge to hinge pillar. Tighten bolt to 28 N·m (21 ft. lbs.) torque.
(7) Remove support.
(8) Install cowl trim panel (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - INSTALLATION).

INSIDE HANDLE ACTUATOR

REMOVAL

(1) Remove the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - REMOVAL).
(2) Raise the window to the closed position.
(3) Remove the screws attaching the actuator to the door (Fig. 9).

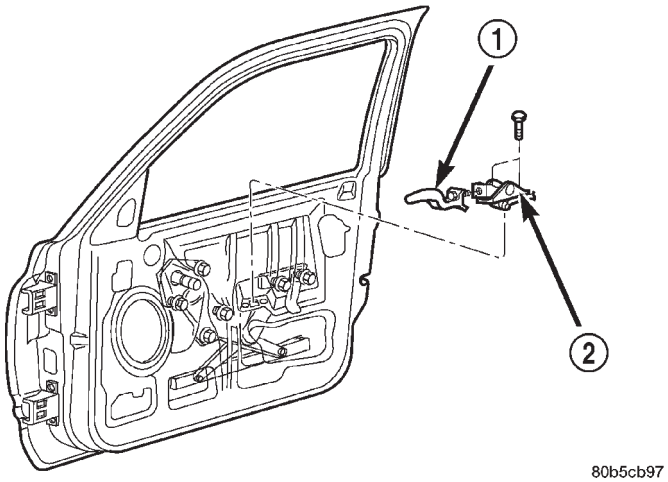

Fig. 9 Front Door Inside Handle Actuator

1 - INSIDE HANDLE
2 - ACTUATOR

INSTALLATION

(1) Install the screws attaching the actuator to the door.
(2) Test handle for proper operation.
(3) Install the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - INSTALLATION).

LATCH

REMOVAL

(1) Remove the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - REMOVAL).
(2) Disengage clips attaching lock and latch rods to door latch.
(3) Disconnect power door lock/latch connector, if equipped (Fig. 10).
(4) Remove screws attaching door latch to door end panel (Fig. 11).
(5) Separate door latch/lock from door.

LATCH (Continued)

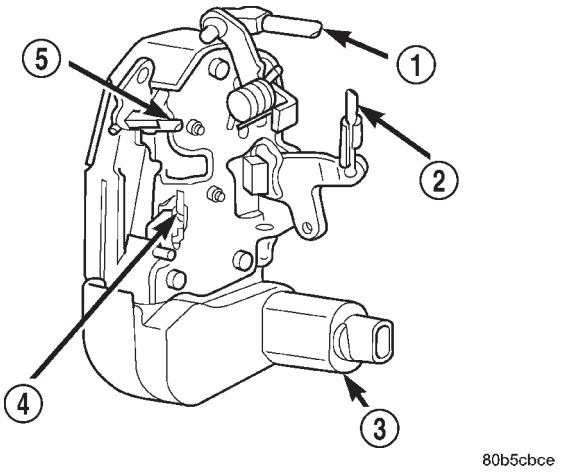

Fig. 10 Power Lock/Latch Connector

1 - INSIDE HANDLE - TO - LATCH ROD
2 - LOCK KNOB - TO - LATCH ROD
3 - POWER LATCH CONNECTOR
4 - LOCK CYLINDER - TO - LATCH ROD
5 - OUTSIDE HANDLE - TO - LATCH ROD

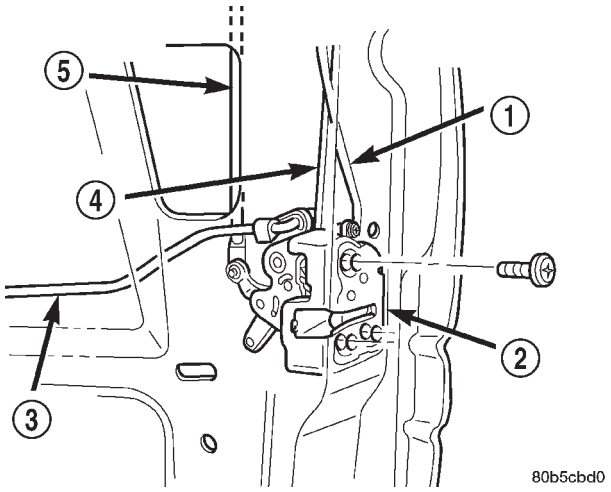

Fig. 11 Front Door Latch

1 - OUTSIDE HANDLE - TO - LATCH ROD
2 - LATCH
3 - INSIDE HANDLE - TO - LATCH ROD
4 - LOCK CYLINDER - TO - LATCH ROD
5 - LOCK KNOB - TO - LATCH ROD

INSTALLATION

(1) Position door latch/lock in door.

(2) Install screws attaching door latch to door end panel. Tighten screws to 10 N·m (89 in. lbs.) torque.

(3) Connect power door lock/latch connector, if equipped.

(4) Engage clips attaching lock and latch rods to door latch.

(5) Install the door waterdam (Refer to 23 - BODY/ DOOR - FRONT/WATERDAM - INSTALLATION).

ADJUSTMENTS

ADJUSTMENT - FRONT DOOR LATCH

(1) Insert a 4-mm (5/32-in) hex-wrench through the elongated hole in the door end frame near the latch striker opening (Fig. 12).

(2) Loosen torx head screw on the side of the latch linkage.

(3) Lift upward on outside door handle and release it.

(4) Tighten torx head screw on latch.

(5) Verify latch operation.

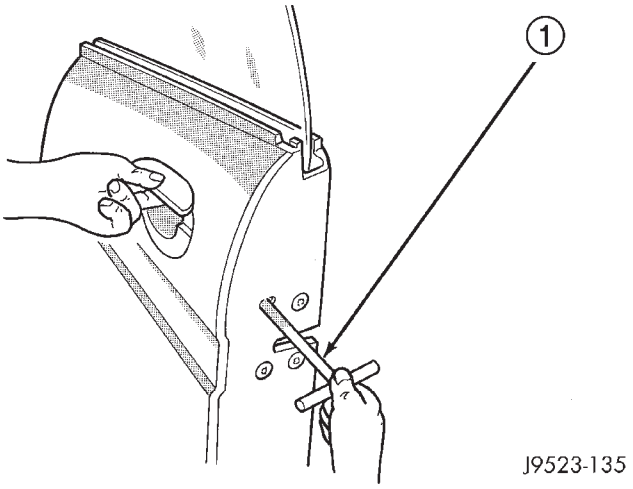

Fig. 12 DOOR LATCH ADJUSTMENT

1 - HEX WRENCH

LATCH STRIKER

REMOVAL

(1) Mark outline of striker base on B-pillar with a grease pencil or equivalent to aid installation.

(2) Remove screws attaching striker to B-pillar (Fig. 13).

(3) Separate striker from vehicle.

INSTALLATION

(1) Position striker on vehicle and align with reference marks.

(2) Install screws attaching striker to B-pillar. Tighten screws to 28 N·m (21 ft. lbs.) torque. (Fig. 13) .

LATCH STRIKER (Continued)

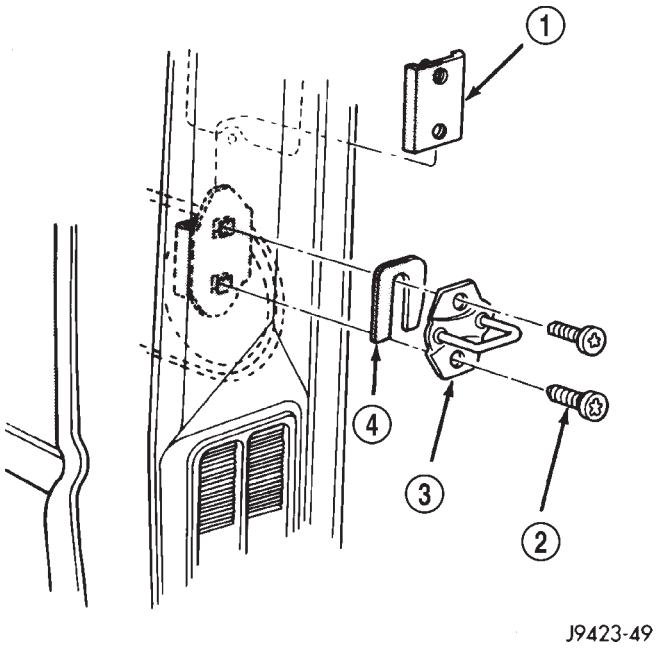

Fig. 13 Front Door Latch Striker

1 - RETAINING PLATE
2 - SCREW
3 - STRIKER
4 - SPACER

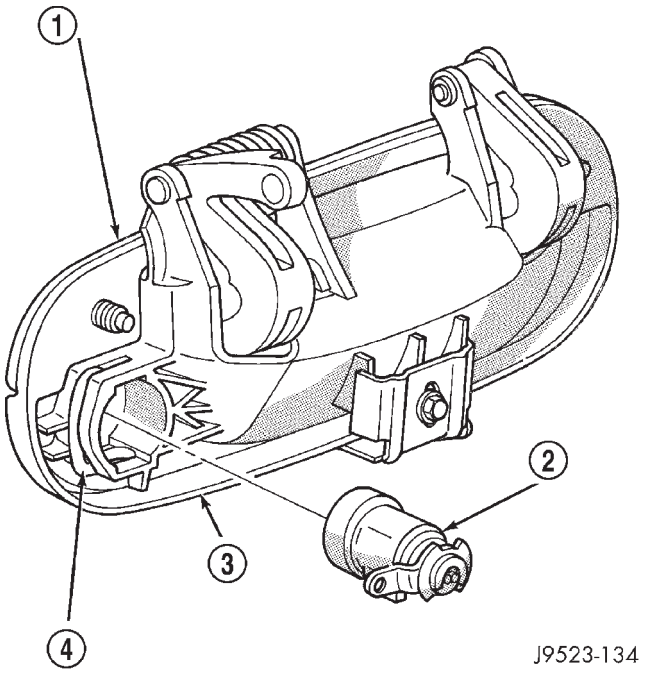

Fig. 14 Door Lock Cylinder

1 - DOOR HANDLE
2 - LOCK CYLINDER
3 - LOCK CYLINDER RETAINER
4 - LOCK RETAINING CLIP

LOCK CYLINDER

REMOVAL

(1) Remove outside door handle (Refer to 23 - BODY/DOOR - FRONT/EXTERIOR HANDLE - REMOVAL).

(2) Remove clip securing lock cylinder to outside door handle (Fig. 14).

(3) Pull lock cylinder from door handle.

INSTALLATION

(1) Position lock cylinder in door handle.

(2) Install clip securing lock cylinder to outside door handle.

(3) Install outside door handle (Refer to 23 - BODY/DOOR - FRONT/EXTERIOR HANDLE - INSTALLATION).

SIDE VIEW MIRROR FLAG

REMOVAL

(1) Remove door trim panel. (Refer to 23 - BODY/DOOR - FRONT/TRIM PANEL - REMOVAL)

(2) Remove flag door seal.

(3) Remove nuts attaching mirror flag cover to door frame (Fig. 15).

(4) Separate flag cover from door.

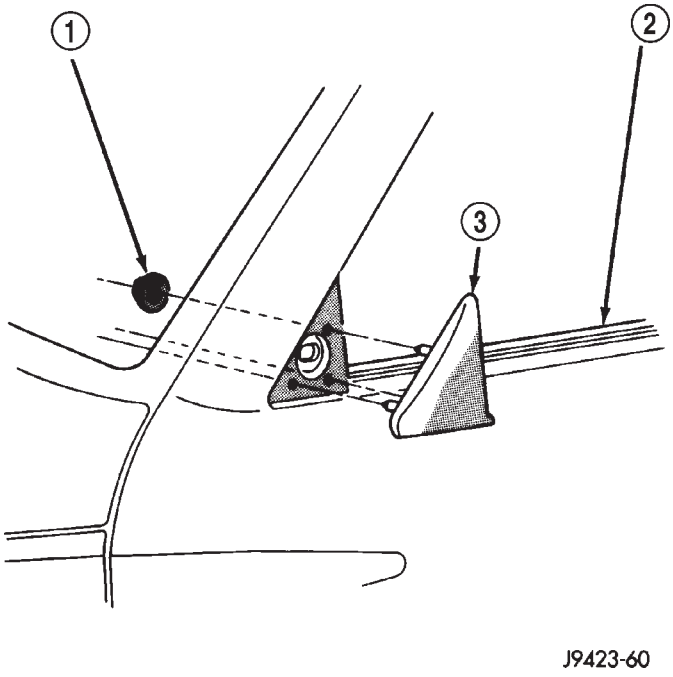

Fig. 15 Mirror Flag Cover

1 - NUT
2 - DOOR
3 - FLAG COVER ASSEMBLY

SIDE VIEW MIRROR FLAG (Continued)

INSTALLATION

(1) Position flag cover on door.
(2) Install nuts attaching mirror flag cover to door frame.
(3) Install flag door seal.
(4) Install door trim panel. (Refer to 23 - BODY/ DOOR - FRONT/TRIM PANEL - INSTALLATION)

TRIM PANEL

REMOVAL

(1) Roll window down.
(2) Remove window crank (Fig. 16), if equipped.
(3) Remove screw attaching trim panel to outside mirror frame.
(4) Remove screws attaching pull cup to door (Fig. 17).
(5) Using a trim panel removal tool, disengage clips around perimeter of trim panel, attaching trim panel to door.
(6) While holding bottom of trim panel away from door, simultaneously lift upward and inboard.
(7) Disengage power mirror switch connector, if equipped.
(8) Disengage power window/lock switch connectors from switch panel, if equipped (Fig. 18).
(9) Separate trim panel from door.

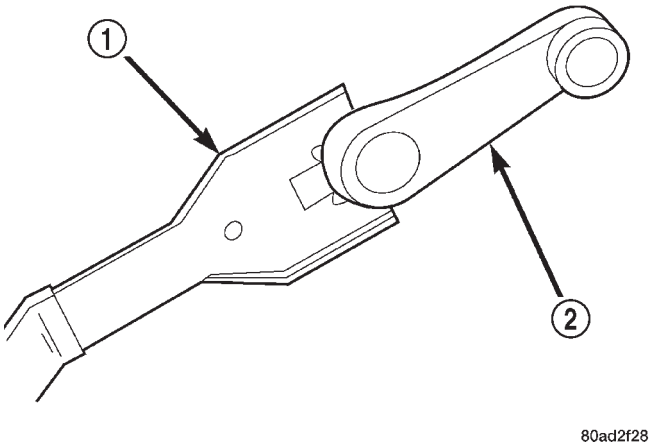

Fig. 16 Window Crank—Typical

1 - WINDOW CRANK REMOVAL TOOL
2 - WINDOW CRANK

INSTALLATION

NOTE: When replacing door trim panel, installer must replace the X-mas tree style pin 6506878aa.

(1) Engage power mirror switch connector, if equipped.
(2) Engage power window/lock switch connectors to switch panel, if equipped.

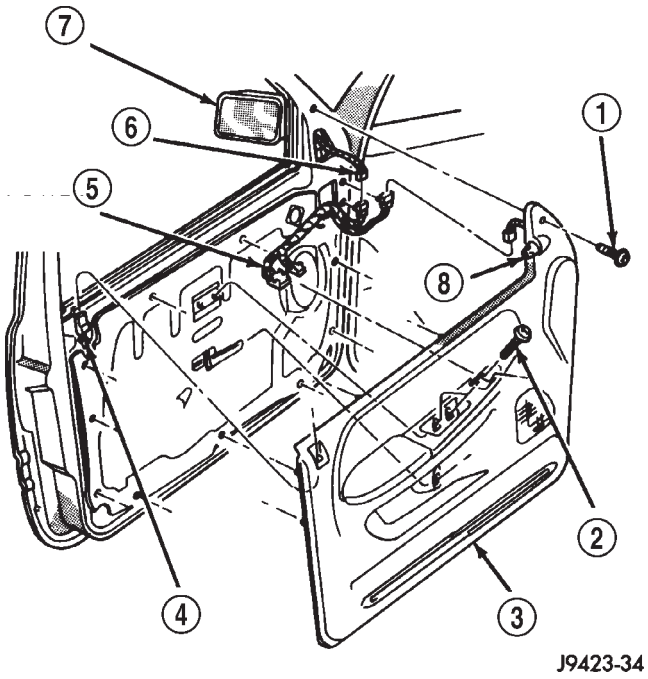

Fig. 17 Door Trim Panel

1 - SCREW
2 - SCREW
3 - TRIM PANEL
4 - DOOR LOCK BUTTON
5 - POWER WINDOW HARNESS
6 - POWER MIRROR HARNESS
7 - POWER MIRROR
8 - POWER MIRROR CONTROL

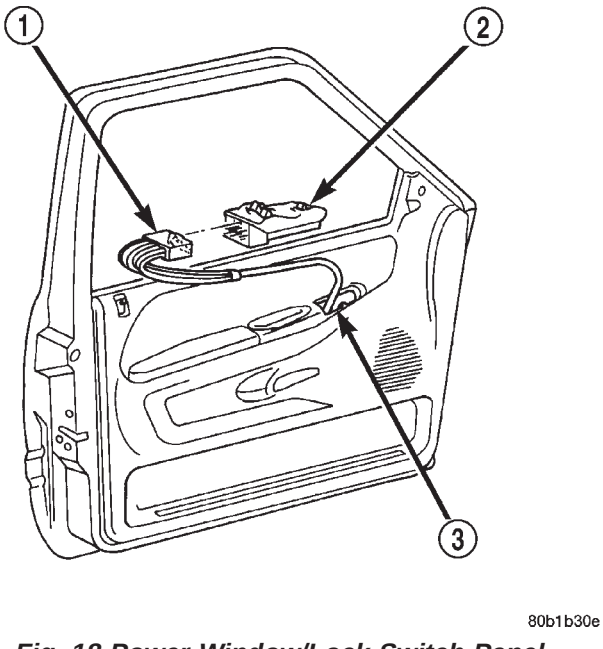

Fig. 18 Power Window/Lock Switch Panel

1 - ELECTRICAL CONNECTOR
2 - POWER WINDOW/LOCK SWITCH PANEL
3 - WIRE HARNESS

TRIM PANEL (Continued)

(3) Position trim panel on door.
(4) Engage clips around perimeter of trim panel, attaching trim panel to door.
(5) Install screws attaching pull cup to door.
(6) Install screw attaching trim panel to outside mirror frame.
(7) Install window crank, if equipped.

WATERDAM

REMOVAL

(1) Remove door trim panel (Refer to 23 - BODY/ DOOR - FRONT/TRIM PANEL - REMOVAL).
(2) Peel waterdam away from adhesive around perimeter of inner door panel (Fig. 19).

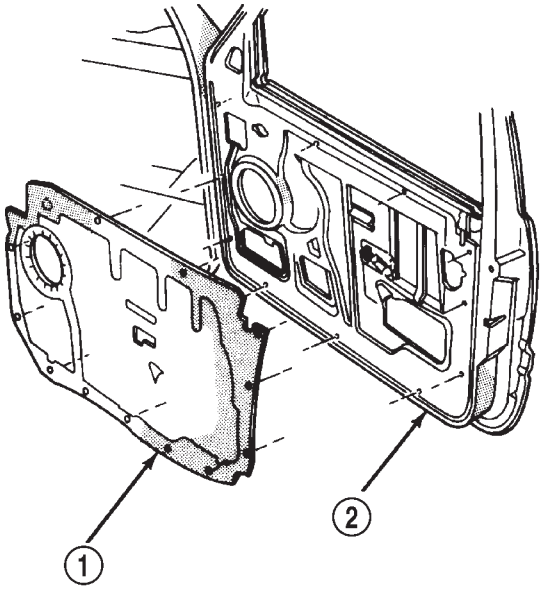

Fig. 19 Door Water Dam

1 - WATER DAM
2 - DOOR

INSTALLATION

(1) Position and align water dam with adhesive around perimeter of inner door panel.
(2) Press water dam onto inner door panel to secure.
(3) Install door trim panel (Refer to 23 - BODY/ DOOR - FRONT/TRIM PANEL - INSTALLATION).

WINDOW REGULATOR

REMOVAL

(1) Remove the door waterdam (Refer to 23 - BODY/DOOR - FRONT/WATERDAM - REMOVAL).
(2) Remove nuts attaching door glass to window regulator.
(3) Remove glass from door or move glass to full up position and secure glass to door with tape.
(4) Disengage power window motor wire connector from door harness, if equipped.
(5) Remove bolts attaching window regulator to inner door panel.
(6) Separate window regulator from door panel (Fig. 20).
(7) Extract window regulator through access hole in inner door panel.

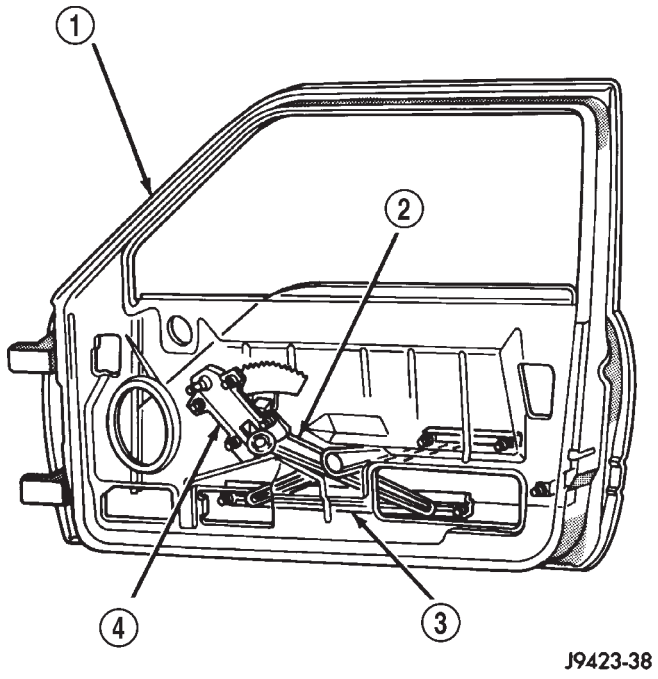

Fig. 20 Door Glass Window Regulator

1 - DOOR ASSEMBLY
2 - WINDOW REGULATOR ASSEMBLY
3 - DOOR GLASS ASSEMBLY
4 - WINDOW REGULATOR

INSTALLATION

(1) Position window regulator in door through access hole.
(2) Install bolts attaching window regulator to inner door panel.
(3) Engage power window motor wire connector to door harness, if equipped.
(4) Install glass in lift plate.
(5) Install the door waterdam (Refer to 23 - BODY/ DOOR - FRONT/WATERDAM - INSTALLATION).

DOOR - CARGO

TABLE OF CONTENTS

AIR EXHAUSTER

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Peel back waterdam.
(3) Remove push-in fastener attaching air exhauster to cargo door inner panel (Fig. 1).
(4) Separate air exhauster from cargo door.

INSTALLATION

(1) Position air exhauster in cargo door.
(2) Engage air exhauster upper tabs with cargo door inner panel.
(3) Install push-in fastener attaching air exhauster to cargo door inner panel (Fig. 1).
(4) Reposition waterdam.
(5) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

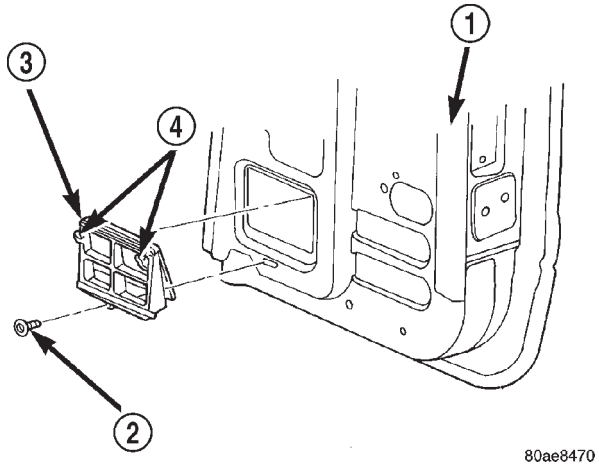

Fig. 1 Cargo Door Air Exhauster

1 - CARGO DOOR
2 - PUSH—IN FASTENER
3 - DOOR EXHAUSTER
4 - TAB

CHECK

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).

(2) Remove the bolts attaching the door check to the cab C-pillar.

(3) Remove the nuts attaching the door check to the cargo door (Fig. 2).

(4) Remove the door check through the access hole in the cargo door.

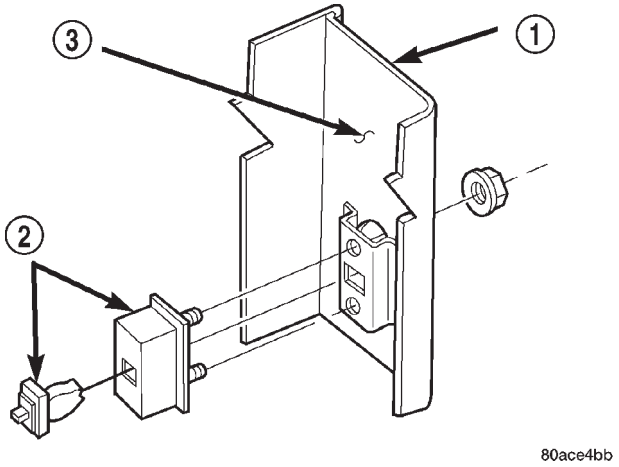

Fig. 2 Door Check

1 - CARGO DOOR
2 - DOOR CHECK
3 - CARGO DOOR INNER PANEL

INSTALLATION

(1) Position the door check in the cargo door through the access hole.

(2) Install the nuts attaching the door check to the cargo door (Fig. 2).

(3) Install the bolts attaching the door check to the cab C-pillar.

(4) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

DOOR

REMOVAL

(1) Using a grease pencil or equivalent, mark the position of the hinge on the door.

(2) Remove the cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).

(3) Remove the cargo door check strap from the cab C-pillar (Refer to 23 - BODY/DOOR - CARGO/CHECK - REMOVAL).

(4) Using the access hole in the cargo door inner panel, disengage the speaker wire from the speaker and route the wire through the door.

(5) Support the cargo door on a suitable device.

(6) Remove the bolts attaching the hinges to the cargo door (Fig. 3).

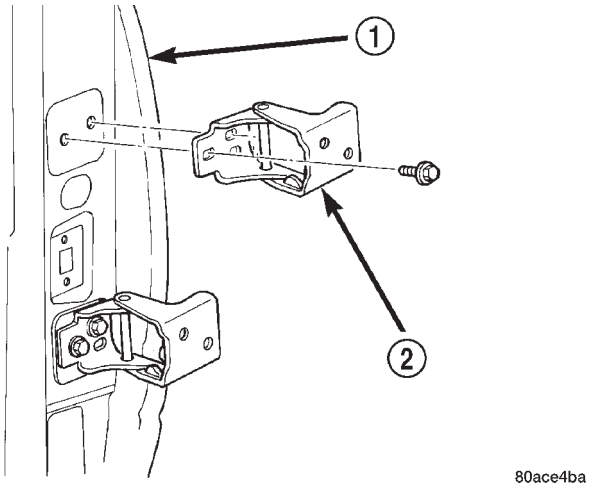

Fig. 3 Cargo Door

1 - CARGO DOOR
2 - CARGO DOOR HINGE

INSTALLATION

(1) Support the cargo door on a suitable device.

(2) Using the alignment marks, position the door at the hinge.

(3) Install the bolts attaching the hinges to the cargo door (Fig. 3). Tighten the bolts to 28 N·m (21 ft. lbs.) torque.

(4) Route the speaker wire through the door and using the access hole in the cargo door inner panel, engage the speaker wire at the speaker.

(5) Install the cargo door check strap at the cab C-pillar (Refer to 23 - BODY/DOOR - CARGO/CHECK - INSTALLATION).

(6) Install the cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

ADJUSTMENTS

ADJUSTMENT - CARGO DOOR

CARGO DOOR FORE/AFT AND UP/DOWN

(1) As applicable, remove the C-pillar trim to access the bolts attaching the cargo door to the C-pillar.

(2) Support the door with a padded floor jack.

(3) Loosen the applicable C-pillar to hinge bolts and move the door to the correct position.If neces-

DOOR (Continued)

sary, loosen the other C-pillar to hinge bolts and move the door to the correct position.

(4) Tighten the bolts to 28 N·m (21 ft. lbs.) torque.

(5) If necessary, loosen the bolts attaching the lower striker and move striker to the correct position.

(6)

If necessary, loosen the bolts attaching the upper latch to the cargo door and move to the correct position. (Fig. 4)

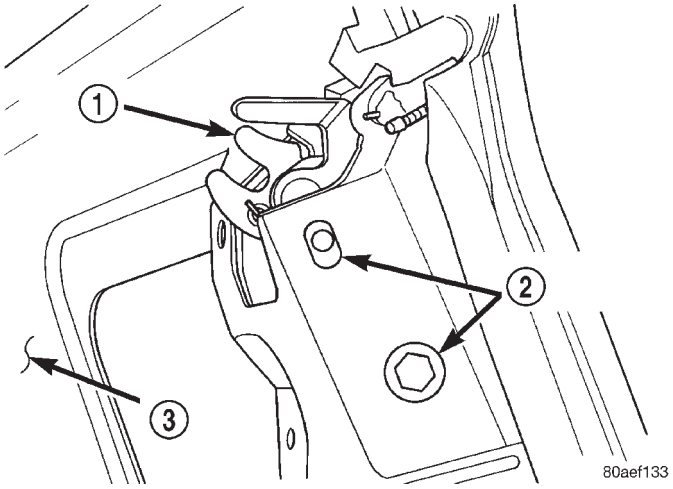

Fig. 4 CARGO DOOR UPPER LATCH

1 - UPPER LATCH
2 - ADJUSTMENT SLOTS
3 - CARGO DOOR

CARGO DOOR IN/OUT

(1) Loosen the applicable hinge to door fasteners and move the door to the correct position.

(2) Tighten the bolts to 28 N·m (21 ft. lbs.) torque.

EXHAUST VENT

REMOVAL

(1) Using a trim stick, carefully pry bottom of vent to disengage from door (Fig. 5).

(2) Separate vent from door.

INSTALLATION

(1) Position upper side of vent in door opening.

(2) Slide upward until tabs on top edge are in place.

(3) Push the lower side of the vent towards the door until the tabs snap into place.

(4) Ensure vent is fully seated.

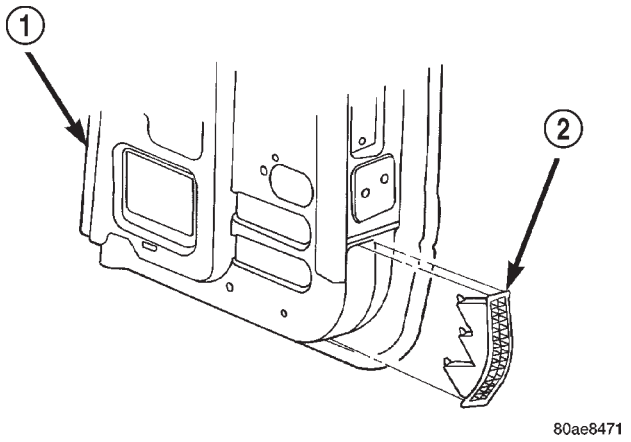

Fig. 5 Cargo Door Exhaust Vent

1 - CARGO DOOR
2 - EXHAUST VENT

HINGE

REMOVAL

(1) Remove cargo door (Refer to 23 - BODY/DOOR - CARGO/DOOR - REMOVAL).

(2) Remove quarter trim panel (Refer to 23 - BODY/INTERIOR/QUARTER TRIM PANEL - REMOVAL).

(3) Remove bolts attaching hinge to C-pillar (Fig. 6).

(4) Separate hinge from vehicle.

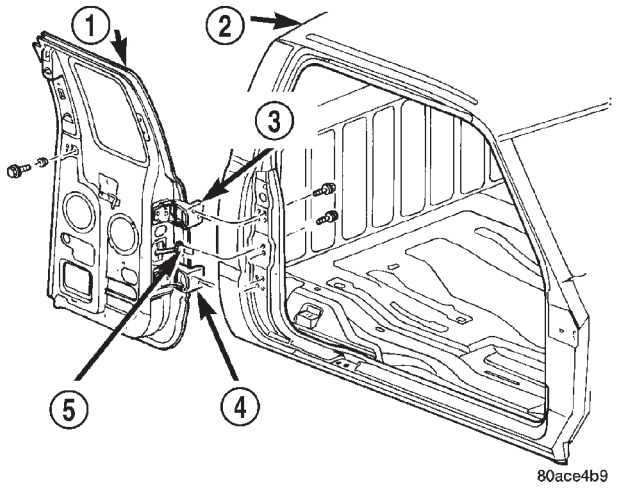

Fig. 6 Cargo Door Hinge

1 - CARGO DOOR
2 - CAB
3 - UPPER HINGE
4 - LOWER HINGE
5 - DOOR CHECK

HINGE (Continued)

INSTALLATION

(1) Position hinge on vehicle.
(2) Install bolts attaching hinge to C-pillar (Fig. 6). Tighten bolts to 28 N·m (21 ft. lbs.) torque.
(3) Install quarter trim panel (Refer to 23 - BODY/INTERIOR/QUARTER TRIM PANEL - INSTALLATION).
(4) Install cargo door (Refer to 23 - BODY/DOOR - CARGO/DOOR - INSTALLATION).

INSIDE HANDLE ACTUATOR

REMOVAL

NOTE: The cargo door inside handle actuator is heat staked to the trim panel (Fig. 7).

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Disengage release cable from inside handle.
(3) Using a small file, drummel tool or die grinder, remove the melted material securing the handle to the trim panel.
(4) Separate the handle from the trim panel.

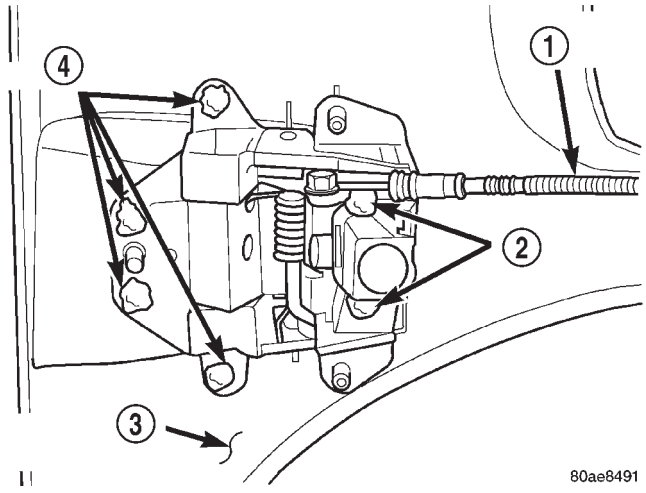

Fig. 7 Heat Staked Locations

1 - RELEASE CABLE
2 - HEAT STAKED LOCATIONS
3 - CARGO DOOR TRIM PANEL
4 - HEAT STAKED LOCATIONS

INSTALLATION

(1) Position the handle in the trim panel.
(2) Using a soldering gun, and using the additional studs, heat stake the handle to the trim panel.
(3) Engage release cable to inside handle.
(4) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

LATCH - LOWER

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Peel back waterdam to access air exhauster.
(3) Remove cargo door air exhauster (Refer to 23 - BODY/DOOR - CARGO/AIR EXHAUSTER - REMOVAL).
(4) Disengage lower latch to shutface handle rod at shutface handle (Fig. 8).
(5) Remove nuts attaching lower latch to cargo door.
(6) Separate lower latch and latch rod from cargo door.

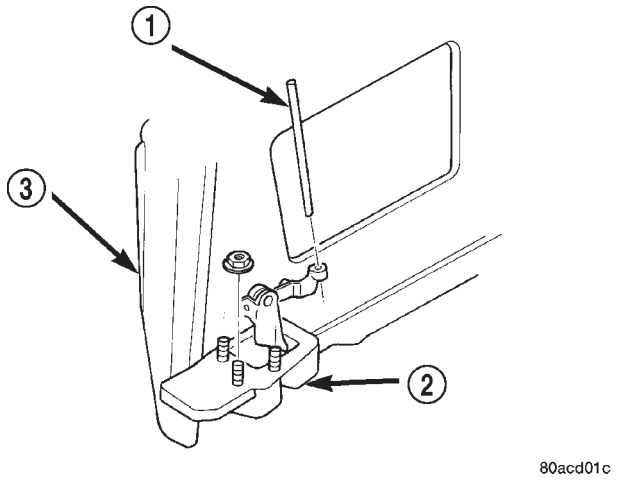

Fig. 8 Cargo Door Lower Latch

1 - LOWER LATCH TO HANDLE ROD
2 - LOWER CARGO DOOR LATCH
3 - CARGO DOOR

INSTALLATION

(1) If installing a new replacement latch:
(a) Engage latch rod to latch rod retaining clip in lower latch. Ensure “white” latch installation pin is in the position closest to the latch release lever (Fig. 9).
(2) If the latch was not replaced and the existing latch is to be installed:
(a) Slide “white” latch installation pin to the position closest to the latch release lever.
(3) Position lower latch and latch rod in cargo door.
(4) Install nuts attaching lower latch to cargo door. Tighten nuts to 12 N·m (9 ft. lbs.) torque (Fig. 8).
(5) Engage latch rod to latch rod retaining clip in lower latch.

LATCH - LOWER (Continued)

CAUTION: When engaging lower latch release rod to shutface handle, ensure lower latch rod is pushed all the way down before engaging to the handle.

(6) Engage lower latch rod to shutface handle
(7) Cycle the shutface handle and verify latch operation.
(8) Install cargo door air exhauster (Refer to 23 - BODY/DOOR - CARGO/AIR EXHAUSTER - INSTALLATION).
(9) Reposition waterdam.
(10) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

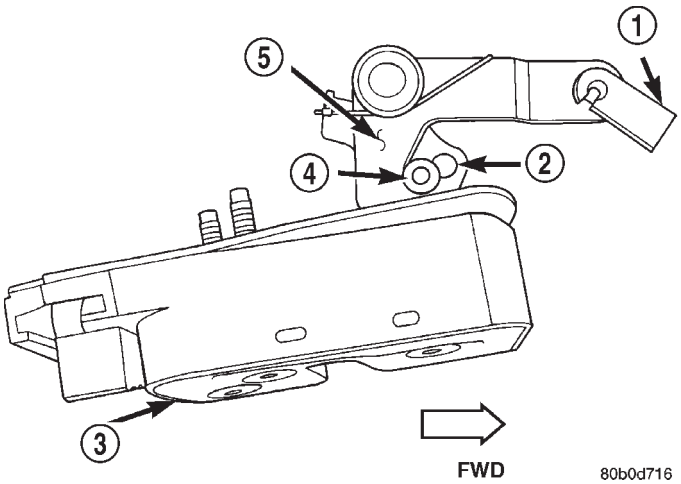

Fig. 9 Cargo Door Lower Latch Installation Pin

1 - LATCH ROD RETAINING CLIP
2 - SLOT
3 - CARGO DOOR LOWER LATCH
4 - INSTALLATION PIN
5 - LATCH RELEASE LEVER

LATCH - UPPER

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Using a grease pencil or equivalent, mark the position of the bolts.
(3) Disengage upper latch release rod from shutface handle.
(4) Remove the bolts attaching upper latch to cargo door (Fig. 10).
(5) Separate upper latch and latch rod from cargo door.

INSTALLATION

(1) The new replacement latch is supplied with an alignment set screw located in the lower mounting

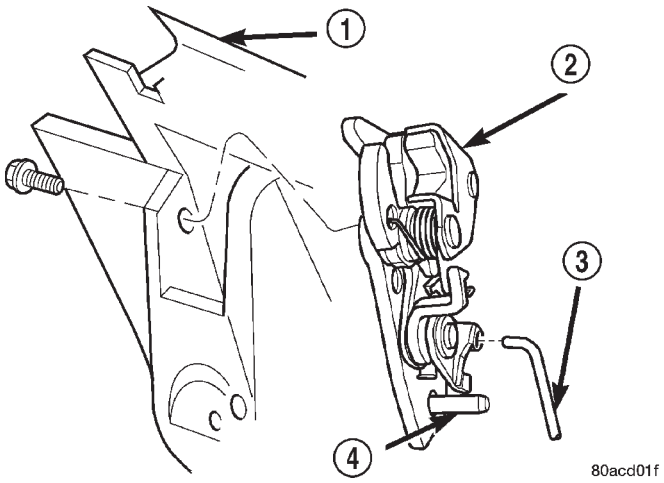

Fig. 10 Cargo Door Upper Latch

1 - CARGO DOOR
2 - UPPER CARGO DOOR LATCH
3 - UPPER LATCH TO HANDLE ROD
4 - ALIGNMENT SET SCREW

hole of the upper cargo door latch. If a new is latch is being installed, use the following procedure:
(a) Verify alignment set screw is fully seated in latch.
(b) Engage latch rod to latch.
(c) Position latch in cargo door with alignment set screw located in the lower hole.
(d) Align bolt with reference mark.
(e) Install upper bolt. Tighten bolt to 23 N·m (17 ft. lbs.) torque.
(f) Engage latch rod to shutface handle.
(g) Remove alignment set screw from lower hole.
(h) Align lower bolt with reference mark.
(i) Install bolt in lower hole. Tighten bolt to 23 N·m (17 ft. lbs.) torque.

CAUTION: When engaging upper latch release rod to shutface handle, ensure the latch rod is pushed all the way up before engaging into the shutface handle.

(2) If the latch was not replaced and the existing latch is to be installed:
(a) Engage latch rod to latch.
(b) Position upper latch and latch rod in cargo door.
(c) Align bolts with reference marks.
(d) Install the bolts attaching upper latch to cargo door (Fig. 10). Tighten the bolts to 23 N·m (17 ft. lbs.) torque.
(e) Engage upper latch release rod to shutface handle.
(3) Cycle the shutface handle and verify latch operation.

LATCH - UPPER (Continued)

(4) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

LATCH STRIKER - LOWER

REMOVAL

(1) Using a grease pencil or equivalent, mark the position of the lower striker on the sill.
(2) Remove the torx screws attaching the striker to the sill (Fig. 11) .
(3) Separate striker from sill.

INSTALLATION

(1) Using the alignment marks, position striker on sill.
(2) Install the torx screws attaching the striker to the sill (Fig. 11) . Tighten screws to 28 N·m (21 ft. lbs.) torque.

LATCH STRIKER - UPPER

REMOVAL

(1) Remove screws attaching striker trim cover to roof.
(2) Remove bolts attaching striker to roof (Fig. 11).
(3) Separate upper striker from roof.

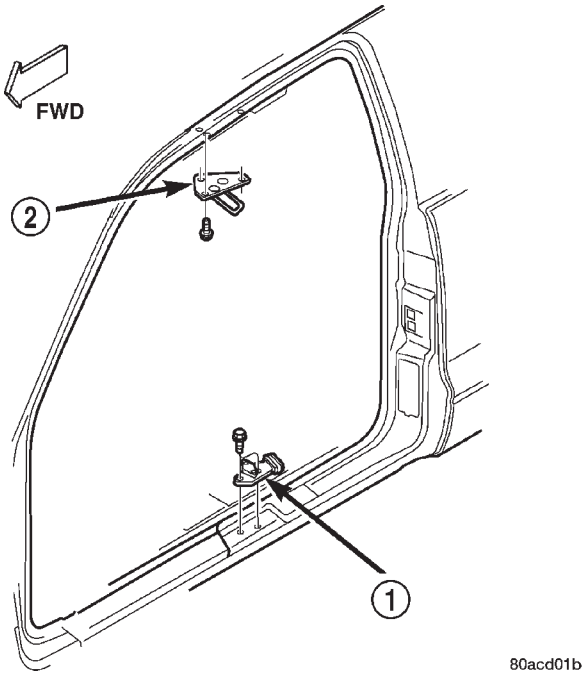

Fig. 11 Cargo Door Strikers

1 - UPPER STRIKER
2 - LOWER STRIKER

INSTALLATION

(1) Position upper striker on roof.
(2) Install bolts attaching striker to roof (Fig. 11) . Tighten bolts to 23 N·m (17 ft. lbs.) torque.
(3) Install the screws attaching striker trim cover to roof.

RELEASE CABLE

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Disengage release cable from inside release handle (Fig. 12).
(3) Peel back waterdam
(4) Disengage release cable from shutface door handle (Fig. 13).
(5) Separate release cable from cargo door.

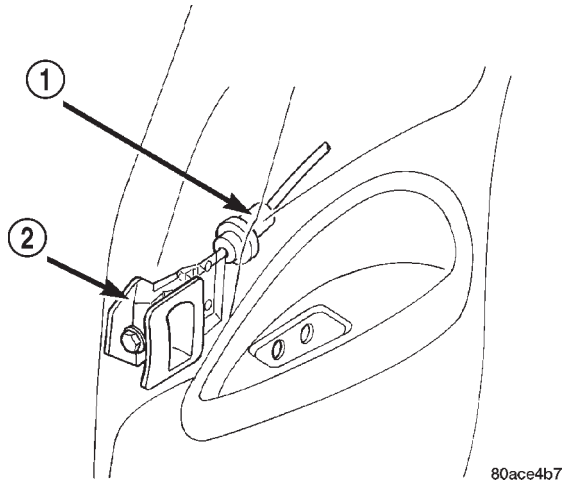

Fig. 12 Cargo Door Release Handle

1 - CARGO DOOR RELEASE CABLE
2 - CARGO DOOR RELEASE HANDLE

INSTALLATION

(1) Position release cable in cargo door.
(2) Engage release cable to shutface door handle.
(3) Reposition waterdam
(4) Engage release cable to inside release handle.
(5) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

RELEASE CABLE (Continued)

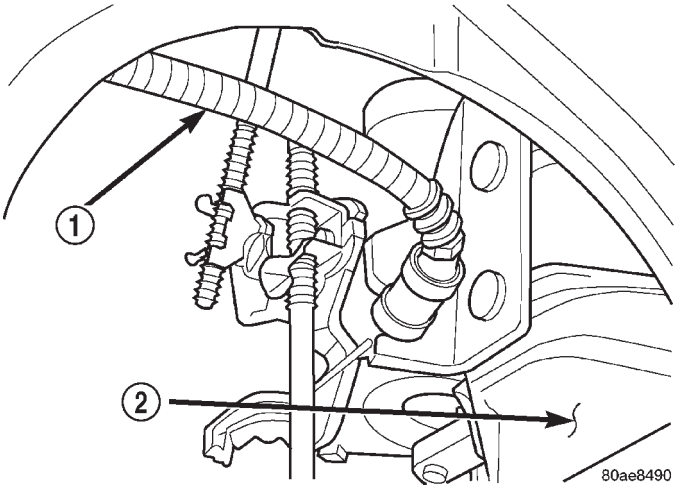

Fig. 13 Shutface Door Handle

1 - RELEASE CABLE
2 - SHUTFACE DOOR HANDLE

SHUTFACE HANDLE

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Peel back waterdam.
(3) Disengage upper and lower latch release rods from shutface handle (Fig. 14).
(4) Disengage cargo door release cable.
(5) Remove screws attaching shutface handle to cargo door (Fig. 15).
(6) Separate handle from cargo door.

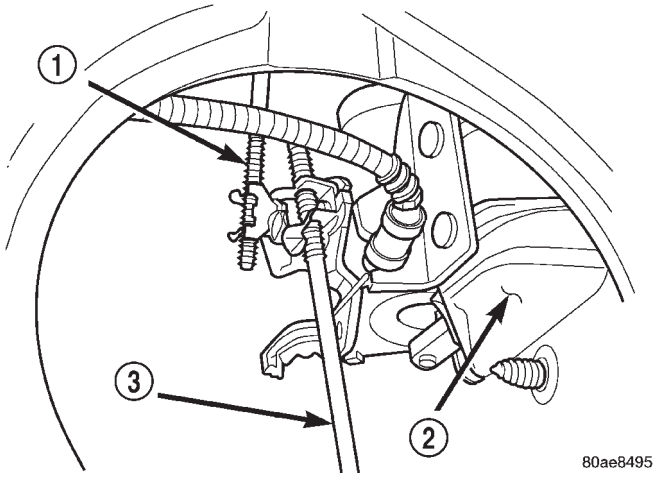

Fig. 14 Cargo Door Latch Rods

1 - UPPER LATCH ROD
2 - SHUTFACE HANDLE
3 - LOWER LATCH ROD

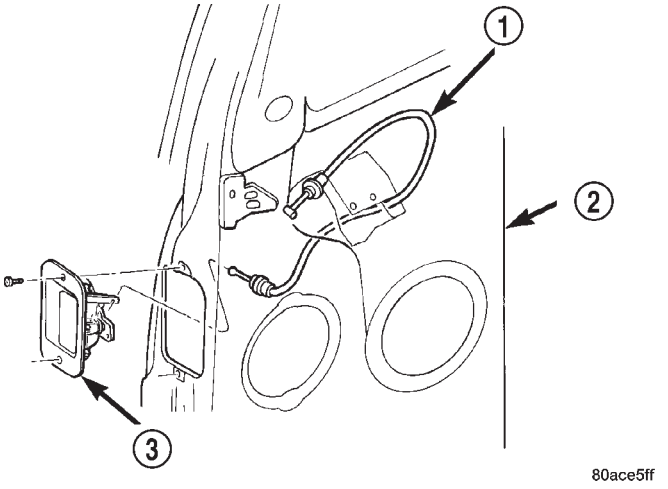

Fig. 15 Shutface Handle

1 - CARGO DOOR RELEASE CABLE
2 - CARGO DOOR
3 - SHUTFACE DOOR HANDLE

INSTALLATION

(1) Position handle in cargo door.
(2) Install screws attaching shutface handle to cargo door (Fig. 15).
(3) Engage cargo door release cable.

CAUTION: When engaging upper and lower latch release rods to shutface handle, ensure the upper latch rod is pushed all the way up and the lower latch rod is pushed all the way down before engaging into the shutface handle.

(4) Engage upper and lower latch release rods to shutface handle.
(5) Cycle the shutface handle and verify operation.
(6) Reposition waterdam.
(7) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

TRIM PANEL

REMOVAL

(1) Remove the screws attaching the cargo door pull cup to the cargo door (Fig. 16).
(2) Remove the screw attaching the inside release handle to the cargo door.

NOTE: The cargo door trim panel is secured to the cargo door with spring clips and push-in fasteners (Fig. 17).

(3) Using a trim panel removal tool, remove the push-in fasteners attaching the trim panel to the cargo door.

TRIM PANEL (Continued)

2(4) Pull the trim panel outward to disengage the spring clips.

(5) Separate the trim panel from the cargo door.

(6) Disengage the cargo door release cable from the inside release handle (Fig. 18).

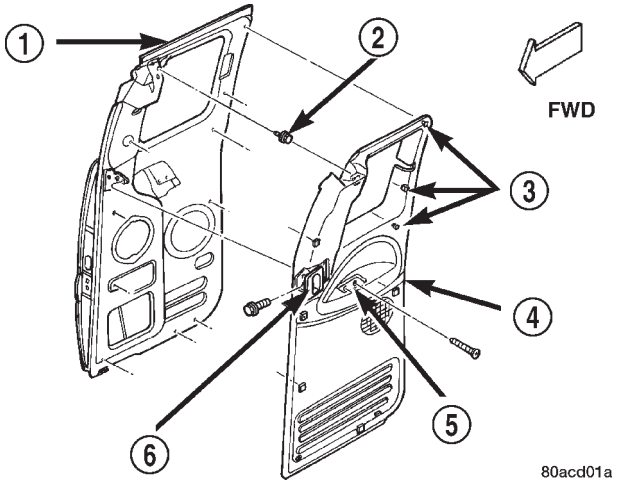

Fig. 16 Cargo Door Trim Panel

1 - CARGO DOOR
2 - PUSH-IN FASTENER
3 - SPRING CLIP
4 - CARGO DOOR TRIM
5 - PULL CUP
6 - INSIDE HANDLE

INSTALLATION

NOTE: When replacing door trim panel, installer must replace the X-mas tree style pins.

(1) Engage the cargo door release cable to the inside release handle (Fig. 18).

(2) Position the trim panel on the cargo door.

(3) Align all fasteners and starting at the top of the panel, push into place to secure.

(4) Install the screw attaching the inside release handle to the cargo door.

(5) Install the screws attaching the cargo door pull cup to the cargo door (Fig. 16).

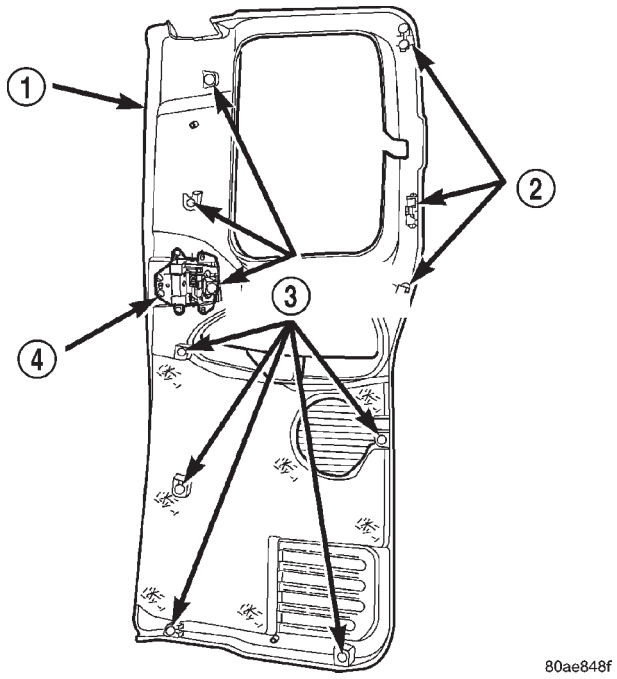

Fig. 17 Cargo Door Trim Panel Fasteners

1 - CARGO DOOR TRIM PANEL
2 - SPRING CLIPS
3 - PUSH-IN FASTENERS
4 - INSIDE RELEASE HANDLE

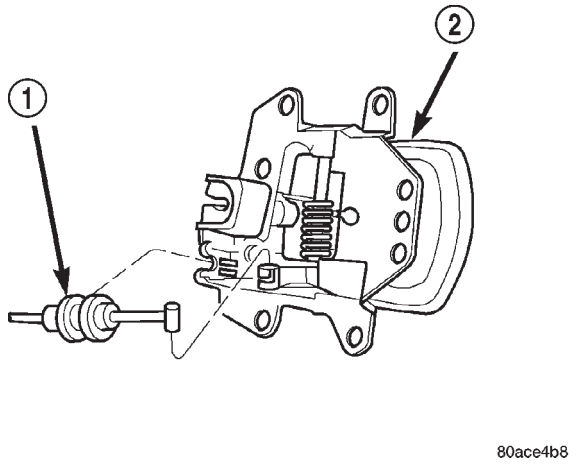

Fig. 18 Cargo Door Release Cable

1 - CARGO DOOR RELEASE CABLE
2 - CARGO DOOR RELEASE HANDLE

VENT WINDOW

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Remove the screws attaching the latch to the cargo door (Fig. 19).
(3) Remove the bolts attaching the vent glass to the cargo door (Fig. 20).
(4) Remove the glass from the door.
(5) If necessary, remove the latch from the glass.

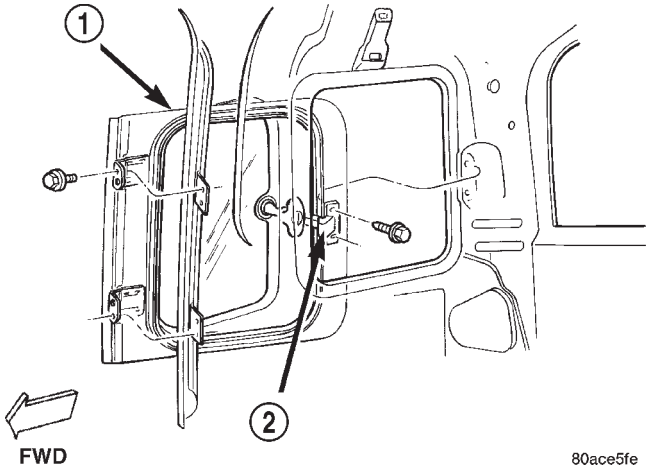

Fig. 19 Cargo Door Quarter Glass Vent Window Latch

1 - CARGO DOOR QUARTER GLASS
2 - LATCH

INSTALLATION

(1) If removed, install the latch to the glass. Tighten the screw with 5 N·m (45 in. lbs.) torque.
(2) Center the glass in the cargo door opening.
(3) Install the bolts attaching the vent glass to the cargo door.
(4) Install the screws attaching the latch to the cargo door.
(5) Install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

WATERDAM

REMOVAL

(1) Remove cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - REMOVAL).
(2) Carefully peel waterdam from door (Fig. 21).

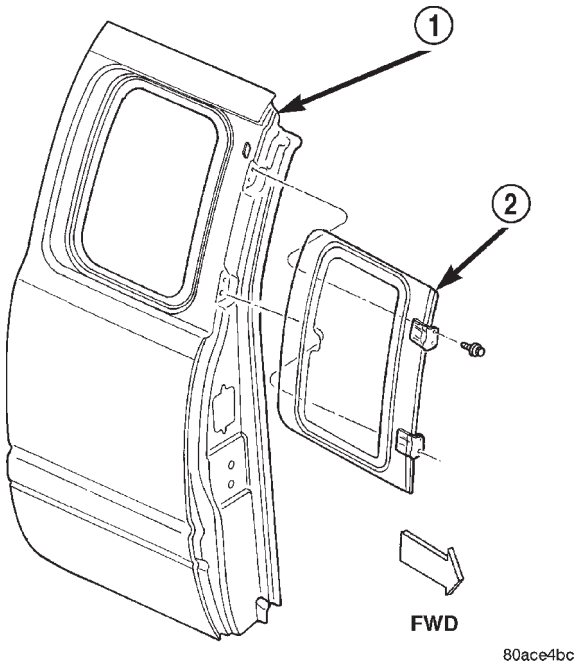

Fig. 20 Cargo Door Quarter Glass Vent Window

1 - CARGO DOOR
2 - CARGO DOOR QUARTER GLASS

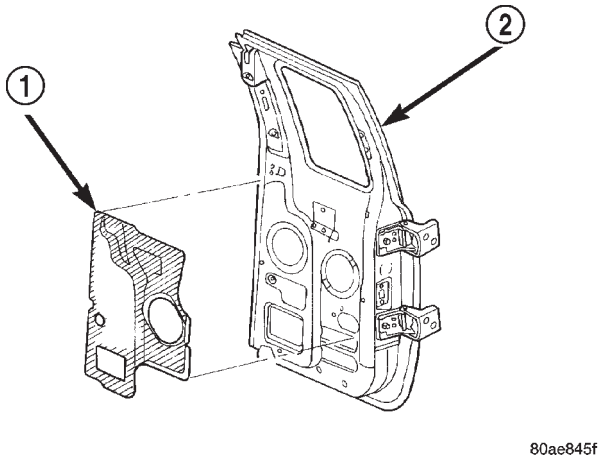

Fig. 21 Cargo Door Waterdam

1 - WATER DAM
2 - CARGO DOOR

INSTALLATION

If a replacement waterdam is being applied, clean cargo door inner panel with Mopar Super Clean or equivalent.
(1) Position waterdam on cargo door and press into place.
(2) install cargo door trim panel (Refer to 23 - BODY/DOOR - CARGO/TRIM PANEL - INSTALLATION).

EXTERIOR

TABLE OF CONTENTS

EXTERIOR

DESCRIPTION

Exterior sheet metal components make up the exterior of the vehicle. Some exterior metal systems are welded assemblies, such as doors and hoods. Some exterior trim items are made of composite.

OPERATION

The exterior is finished in various metal stampings and composite moldings. These assemblies give the vehicle a finished appearance and protect the occupants from the elements. Some components are part of the energy absorbing system used to protect the occupants in collisions. The exterior sheet metal is repairable and adjustable for fit and finish. Welded and bonded component systems are adjustable as a system. Trim components made of composite are stamped with the type of material used. DaimlerChrysler uses various fasteners to retain trim items. At times, it is not possible to remove trim items without damaging the fastener. If it is not possible to remove an item without damaging a component, cut or break the fasteners and use new ones when installing the component.

BODY SIDE MOLDINGS

REMOVAL

(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 (Fig. 1) and (Fig. 2).

BODY SIDE MOLDINGS (Continued)

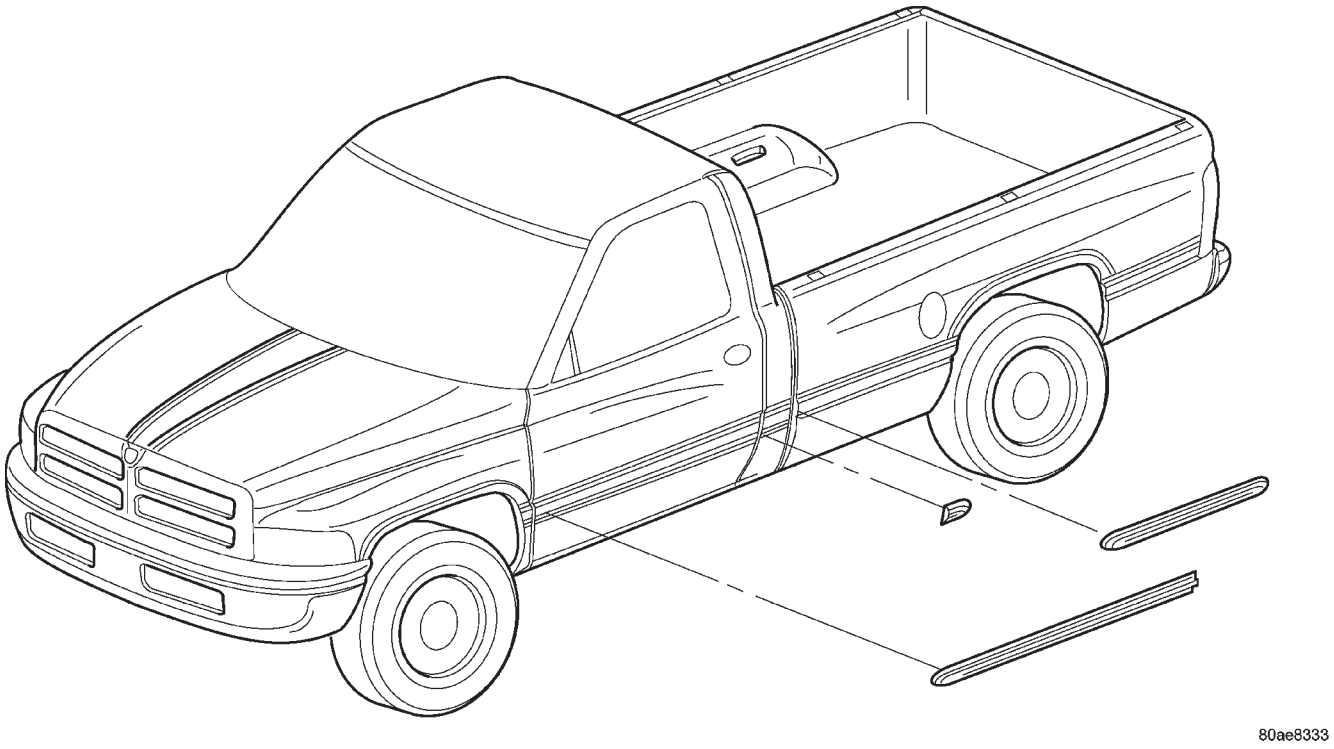

Fig. 1 Body Side Moldings

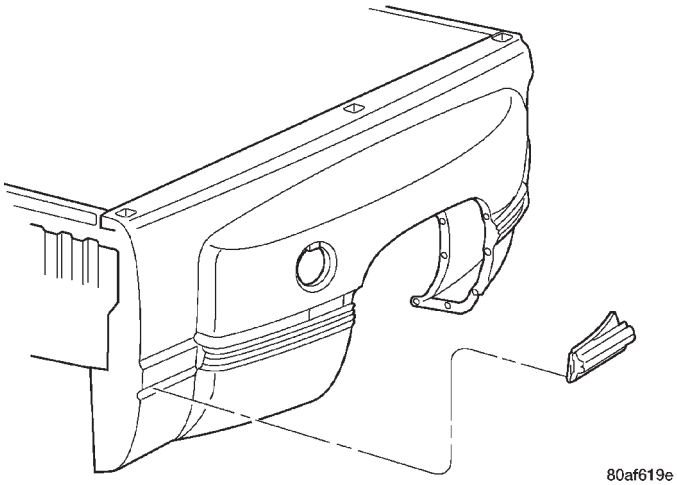

Fig. 2 Body Side Moldings—Dual Wheel

INSTALLATION

(1) Clean body surface with MOPAR® Super Kleen solvent or equivalent. Wipe surface dry with lint free cloth.

(2) Apply a length of masking tape on the body, parallel to the top edge of the molding to use as a guide, if necessary.

(3) Remove protective cover from tape on back of molding. Apply molding to body below the masking tape guide (Fig. 1) and (Fig. 2).

(4) Remove masking tape guide and heat body and molding, see step one. Firmly press molding to body surface to assure adhesion.

BODY STRIPES AND DECALS

REMOVAL

(1) Warm the panel to approximately 38°C (100°F) using a suitable heat lamp or heat gun.

(2) Peel decal from body panel using an even pressure pull.

(3) Remove adhesive residue from body panel using a suitable adhesive removing solvent.

INSTALLATION

The painted surface of the body panel to be covered by a decal must be smooth and completely cured before decal can be applied. Ripples and feather edging will read through if surface is not properly prepared. Clean all residue from surface.

(1) Peel paper backing away from decal exposing adhesive back of decal.

(2) Apply soap solution liberally to adhesive back of decal.

(3) Apply soap solution liberally to body panel surface.

(4) Place decal into position on body panel (Fig. 3) . Smooth out wrinkles by pulling lightly on edges of decal until it lays flat on painted surface.

(5) Push air pockets from under decal to the perimeter of the panel from the center of the decal out.

BODY STRIPES AND DECALS (Continued)

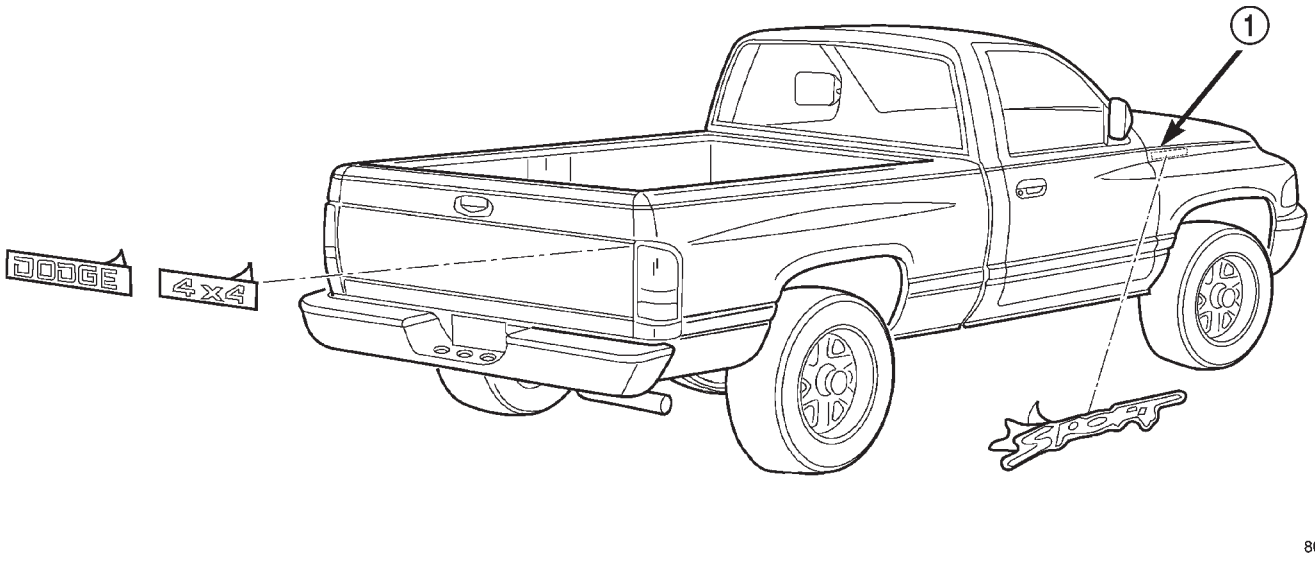

Fig. 3 Decals

1 - TAPE STRIPE

(6) Squeegee soap solution and air bubbles from behind decal from the center of the panel out using a body putty applicator squeegee.

(7) Apply heat to decal to evaporate residual moisture from edges of decal.

(8) Small air or water bubbles under decal can be pierced with a pin and smoothed out.

TAPE STRIPE

REMOVAL

(1) If the panel that is being serviced is not going to be refinished, apply a length of masking tape parallel to the edge of the original tape stripe to aid installation.

(2) Warm the panel to approximately 38°C (100°F) using a suitable heat lamp or heat gun.

(3) Peel tape stripe (Fig. 4) from body panel using an even pressure pull.

(4) Remove adhesive residue from body panel using a suitable adhesive removing solvent.

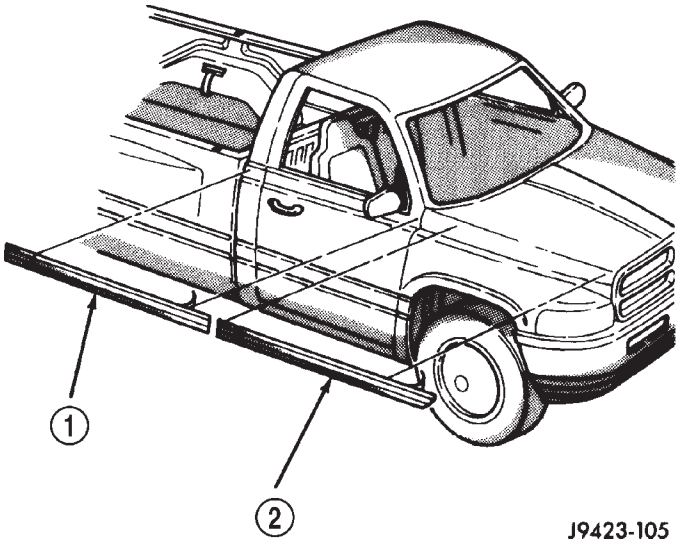

Fig. 4 Tape Stripe Overlay

1 - CAB/DOOR TAPE STRIPE
2 - HOOD TAPE STRIPE

TAPE STRIPE (Continued)

INSTALLATION

The painted surface of the body panel to be covered by a tape stripe overlay must be smooth and completely cured before overlay can be applied. If painted surface is not smooth, wet sand with 600 grit wet/dry sand paper until surface is smooth. Ripples and feather edging will read through overlay if surface is not properly prepared. Clean all residue from surface.

Installation equipment:

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

(1) Spread replacement tape stripe overlay across a smooth flat work surface, finish side down.

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

(3) Apply soap solution liberally to adhesive back of overlay.

(4) Apply soap solution liberally to body panel surface.

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

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

(7) Squeegee soap solution and air bubbles from behind overlay from the center of the panel out using a body putty applicator squeegee (Fig. 5).

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

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

CAUTION: Do not overheat overlay when performing step 9.

(9) Apply heat to overlay to evaporate residual moisture from edges of overlay and to allow overlay to be stretched into concave surfaces.

(10) Edge turn overlay around doors or fenders.

(11) Install exterior trim if necessary.

(12) Small air or water bubbles under overlay can be pierced with a pin and smoothed out.

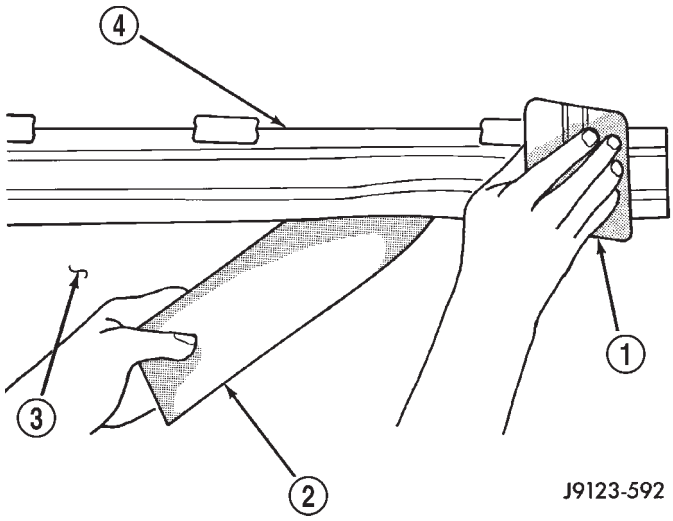

Fig. 5 Tape Stripe Application

1 - SQUEEGEE
2 - CARRIER
3 - BODY PANEL
4 - TAPE STRIPE

EXTERIOR NAME PLATES

REMOVAL

NOTE: Exterior nameplates are attached to body panels with adhesive tape.

(1) Apply a length of masking tape on the body, parallel to the top edge of the nameplate to use as a guide, if necessary.

(2) If temperature is below 21°C (70°F) warm emblem with a heat lamp or gun. Do not exceed 52°C (120°F) when heating emblem.

(3) Insert a plastic trim stick or a hard wood wedge behind the emblem to separate the adhesive backing from the body.

(4) Clean adhesive residue from body with MOPAR® Super Clean solvent or equivalent.

INSTALLATION

(1) Remove protective cover from adhesive tape on back of emblem.

(2) Position emblem properly on body (Fig. 6).

(3) Press emblem firmly to body with palm of hand.

(4) If temperature is below 21°C (70°F) warm emblem with a heat lamp or gun to assure adhesion. Do not exceed 52°C (120°F) when heating emblem.

EXTERIOR NAME PLATES (Continued)

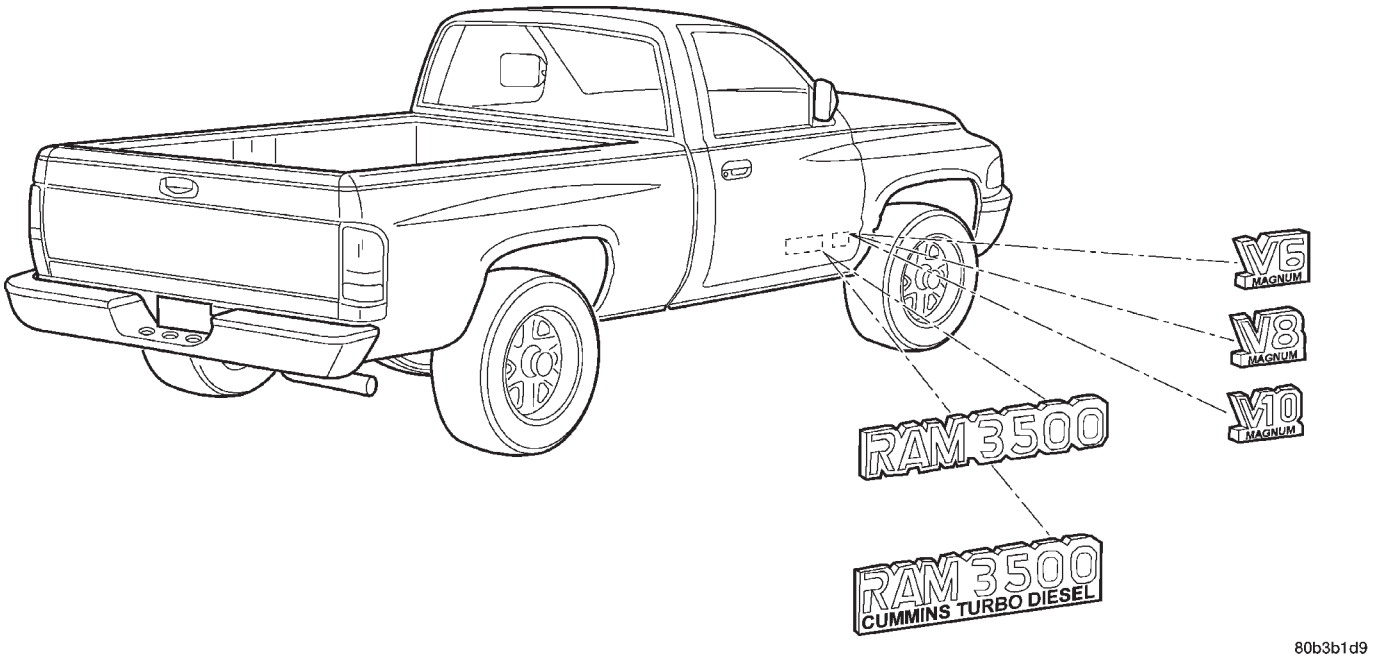

Fig. 6 Exterior Nameplates

COWL GRILLE

REMOVAL

(1) Open hood.
(2) Remove wiper arms (Refer to 8 - ELECTRICAL/WIPERS/WASHERS/WIPER ARMS - REMOVAL AND INSTALLATION).
(3) Disconnect windshield washer tubing from coupling near left hood hinge.
(4) Remove plastic nuts attaching cowl cover to cowl (Fig. 7).
(5) Pull cowl seal from flange on front of cowl.
(6) Separate cowl cover from vehicle.

INSTALLATION

(1) Position cowl cover on vehicle. Ensure end seals are positioned correctly and in good condition.
(2) Install cowl seal.
(3) Install plastic nuts attaching cowl cover to cow.
(4) Connect windshield washer tubing to coupling near left hood hinge.
(5) Install wiper arms.

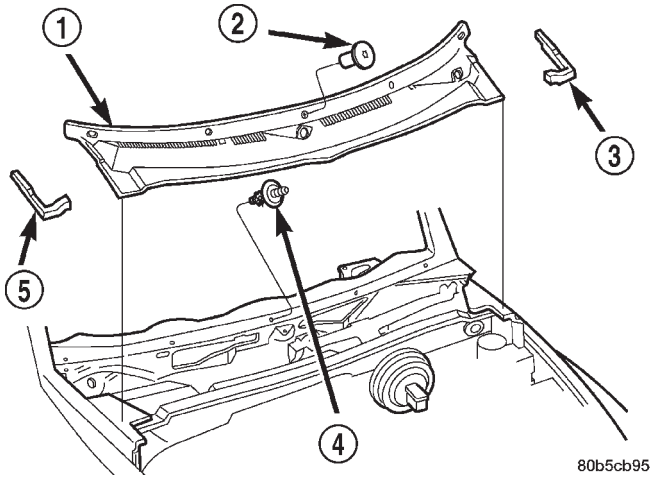

Fig. 7 Cowl Cover

1 - COWL COVER
2 - PLASTIC NUT
3 - END SEAL
4 - PUSH—IN STUD
5 - END SEAL

ROOF JOINT MOLDING

REMOVAL

(1) Warm the roof joint molding and roof panel to approximately 38°C (100°F) using a suitable heat lamp or heat gun.

(2) Pull molding from roof joint (Fig. 8).

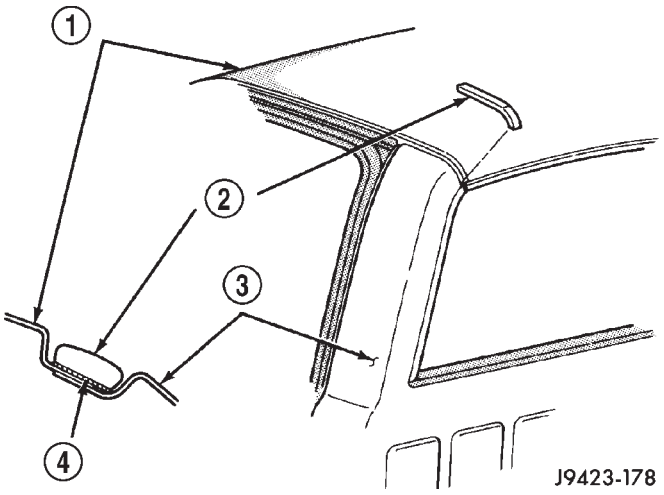

Fig. 8 Roof Joint Molding

1 - ROOF
2 - JOINT MOLDING
3 - B-PILLAR
4 - ADHESIVE TAPE

INSTALLATION

(1) Remove adhesive tape residue from roof joint.

(2) If molding is to be reused, remove tape residue from back of molding. Clean 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.

(3) Clean roof joint with MOPAR® Super Kleen solvent or equivalent. Wipe dry with lint free cloth.

(4) Remove protective cover from tape on back of molding and apply molding to roof joint.

(5) Heat roof and molding, see step one. Firmly press molding into roof joint to assure adhesion.

GRILLE

REMOVAL

(1) Open hood.

(2) Remove bolts attaching bottom of grille to frame (Fig. 9).

(3) Remove bolts attaching sides of grille to frame.

(4) Remove nuts attaching grille to hood (Fig. 10).

(5) Separate grille from vehicle.

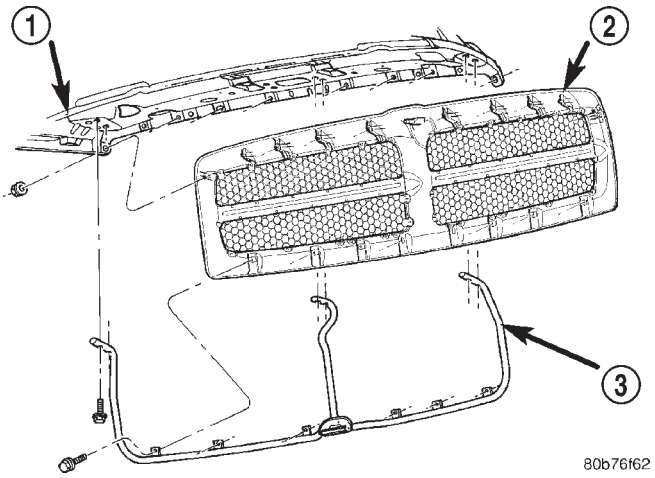

Fig. 9 Grille - Sport

1 - HOOD
2 - GRILLE
3 - GRILLE FRAME

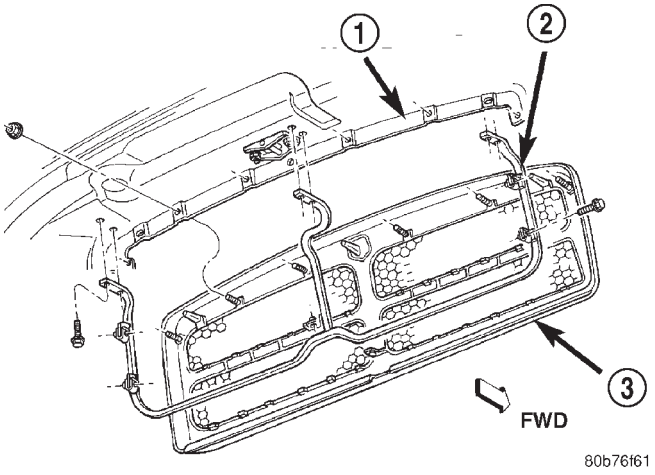

Fig. 10 Grille - SLT

1 - HOOD
2 - GRILLE FRAME
3 - GRILLE

INSTALLATION

(1) Position grille on vehicle.

(2) Install nuts attaching grille to hood.

(3) Install bolts attaching sides of grille to frame.

(4) Install bolts attaching bottom of grille to frame.

GRILLE FRAME

REMOVAL

(1) Remove bolts attaching guide loop for hood safety catch release rod to grille frame.

(2) Remove grille.

GRILLE FRAME (Continued)

(3) Remove screws attaching grille frame to hood (Fig. 11) and (Fig. 12).

(4) Separate grille frame from hood.

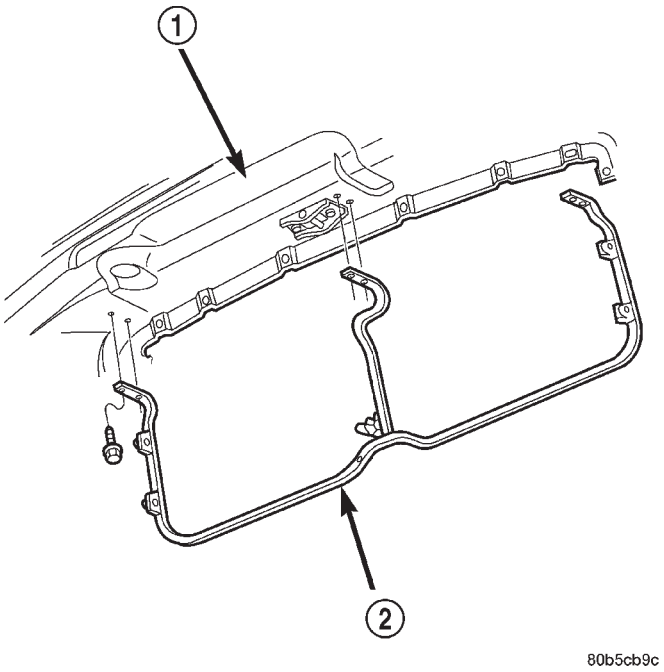

Fig. 11 Grille Frame - SLT

1 - HOOD
2 - GRILLE FRAME

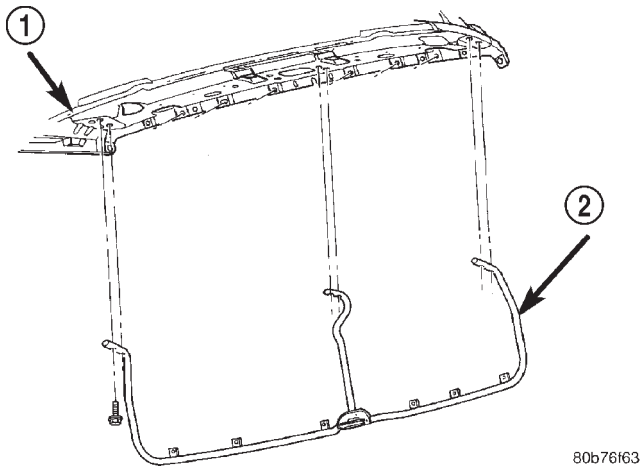

Fig. 12 Grille Frame - Sport

1 - HOOD
2 - GRILLE FRAME

INSTALLATION

(1) Position grille frame on hood.

(2) Install screws attaching grille frame to hood.

(3) Install grille.

(4) Install bolts attaching guide loop for hood safety catch release rod to grille frame.

FRONT END SPLASH SHIELDS

REMOVAL

(1) Raise and support the vehicle. (Refer to LUBRICATION & MAINTENANCE/HOISTING - STANDARD PROCEDURE)

(2) Remove front wheel.

(3) Remove plastic rivets attaching wheelhouse liner to fender at the edge of wheel opening.

(4) Remove plastic rivets attaching liner to the wheelhouse (Fig. 13).

(5) Separate front wheelhouse liner from wheelhouse.

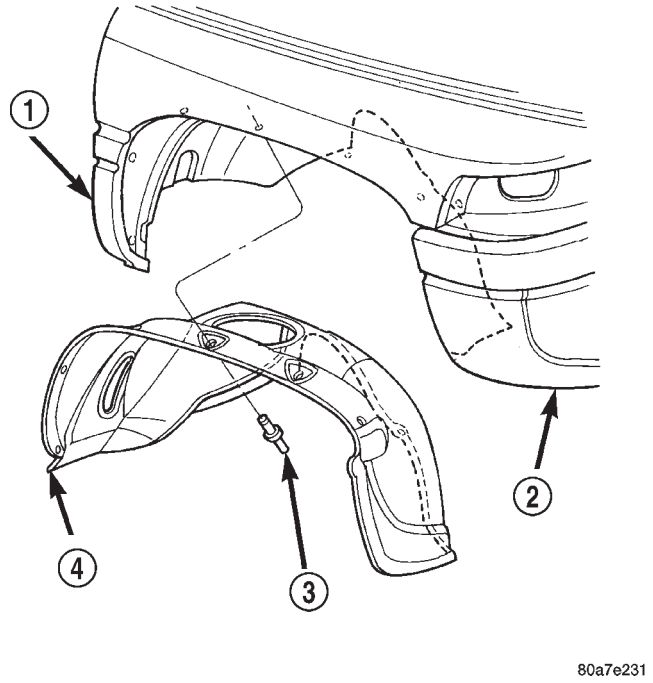

Fig. 13 Front Wheelhouse Liner

1 - FENDER
2 - BUMPER ASSEMBLY
3 - PLASTIC RIVET
4 - WHEELHOUSE LINER

INSTALLATION

(1) Position front wheelhouse liner in wheelhouse.

(2) Install plastic rivets attaching liner to the wheelhouse.

(3) Install plastic rivets attaching wheelhouse liner to fender at the edge of wheel opening.

(4) Install front wheel.

(5) Remove safety stands and lower vehicle.

LEFT FRONT FENDER

REMOVAL

(1) Remove front bumper (Refer to 13 - FRAMES & BUMPERS/BUMPERS/FRONT BUMPER - REMOVAL).
(2) Remove air cleaner from wheelhouse (DIESEL ONLY).
(3) Remove coolant overflow bottle (V-10 ONLY).
(4) Remove battery tray (Refer to 8 - ELECTRICAL/BATTERY SYSTEM/TRAY - REMOVAL).
(5) Remove screws attaching power distribution center to left wheelhouse (Fig. 14).
(6) Disengage wire harness tie-downs from wheelhouse.
(7) Disconnect wiring harness to headlamp connector.
(8) Disconnect wiring harness to airbag sensor and remove airbag sensor from wheelhouse.
(9) Remove bolts attaching anti-lock brake controller to wheelhouse (Fig. 14), if equipped.
(10) Disengage windshield washer tubing tie-downs from wheelhouse (Fig. 14).
(11) Remove bolts attaching front fender to cowl reinforcement (Fig. 15).
(12) Remove bolts attaching front fender to radiator closure panel (Fig. 16).
(13) Remove bolts attaching bottom of front fender to rocker panel lower flange.
(14) Open left door.
(15) Remove bolt attaching front fender to hinge pillar mounting bracket.
(16) Remove bolts attaching top of fender to radiator closure panel.
(17) Separate left front fender from vehicle.

INSTALLATION

(1) Position left front fender on vehicle.
(2) Install bolts attaching top of fender to radiator closure panel.
(3) Install bolt attaching front fender to hinge pillar mounting bracket.
(4) Install bolts attaching bottom of front fender to rocker panel lower flange.
(5) Install bolts attaching front fender to radiator closure panel.
(6) Install bolts attaching front fender to cowl reinforcement.
(7) Secure windshield washer tubing tie-downs to wheelhouse.
(8) Install anti-lock brake controller to wheelhouse, if equipped.
(9) Install airbag sensor to wheelhouse and connect wiring harness to airbag sensor.
(10) Connect wiring harness to headlamp connector.

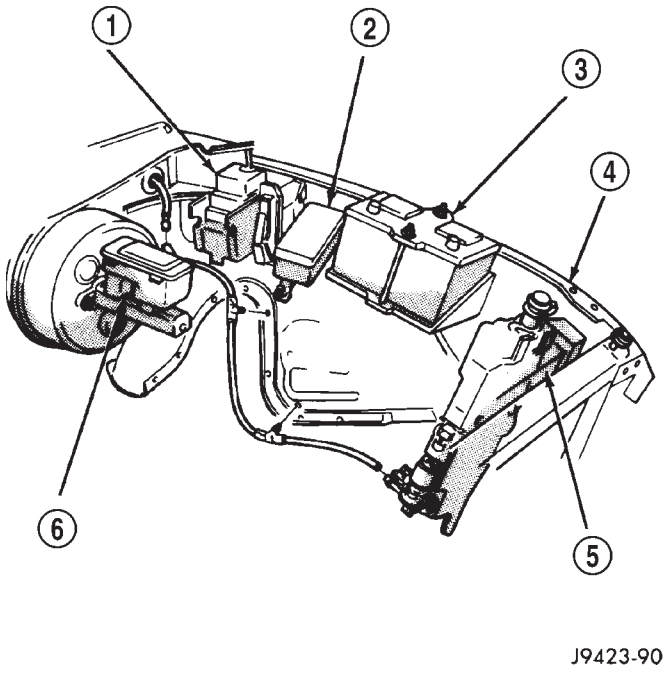

Fig. 14 Left Front Fender Access Components

1 - ABS CONTROLLER
2 - POWER DISTRIBUTION CENTER
3 - BATTERY
4 - FENDER
5 - WINDSHIELD WASHER RESERVOIR
6 - BRAKE MASTER CYLINDER

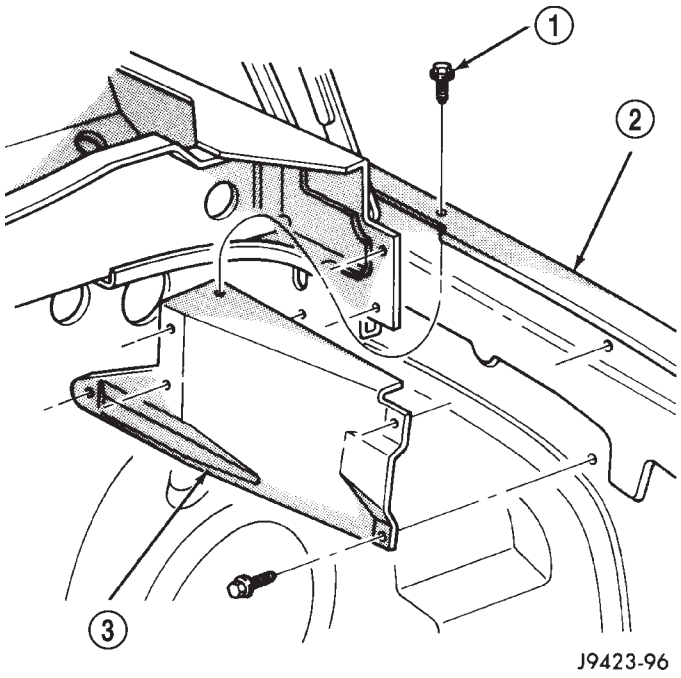

Fig. 15 Fender to Cowl Reinforcement—Typical

1 - BOLT
2 - FENDER
3 - FENDER—TO—COWL REINFORCEMENT

LEFT FRONT FENDER (Continued)

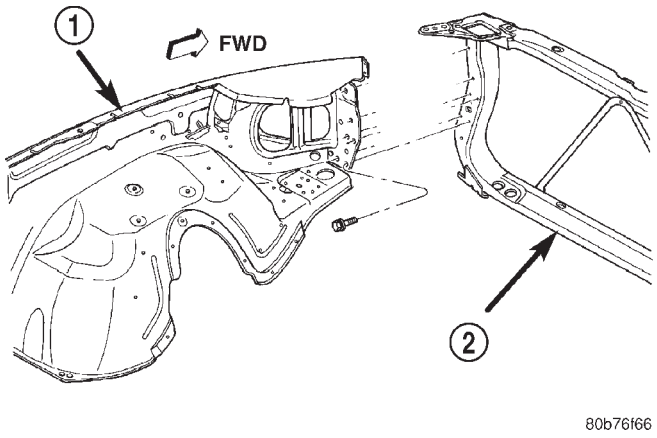

Fig. 16 Left Fender to Radiator Closure Panel Fasteners

1 - LEFT FENDER
2 - RADIATOR CLOSURE PANEL

(11) Secure wire harness tie-downs to wheelhouse.
(12) Install power distribution center to wheelhouse.
(13) Install battery tray (Refer to 8 - ELECTRICAL/BATTERY SYSTEM/TRAY - INSTALLATION).
(14) Install coolant overflow bottle (V-10 ONLY).
(15) Install air cleaner (DIESEL ONLY).
(16) Install front bumper (Refer to 13 - FRAMES & BUMPERS/BUMPERS/FRONT BUMPER - INSTALLATION).

RIGHT FRONT FENDER

REMOVAL

(1) Remove front bumper (Refer to 13 - FRAMES & BUMPERS/BUMPERS/FRONT BUMPER - REMOVAL).
(2) Disconnect and isolate battery negative cable.
(3) Remove auxiliary battery and tray on right side, if equipped.
(4) Disengage wire harness tie-downs from wheelhouse.
(5) Disconnect wiring harness to headlamp connector.
(6) Disconnect wiring harness to airbag sensor and remove airbag sensor from wheelhouse.
(7) Remove front wheelhouse liner (Fig. 13) (Refer to 23 - BODY/EXTERIOR/FRONT END SPLASH SHIELDS - REMOVAL).
(8) Disengage air conditioning tubing from inner fender clips.
(9) Remove bolts attaching front fender to cowl reinforcement (Fig. 15).
(10) Remove bolts attaching front fender to radiator closure panel.
(11) Remove bolts attaching bottom of front fender to rocker panel lower flange (Fig. 17).
(12) Open right door.
(13) Remove bolt attaching front fender to hinge pillar mounting bracket (Fig. 17).
(14) Remove bolts attaching top of fender to radiator closure panel (Fig. 17).
(15) Separate right front fender from vehicle.

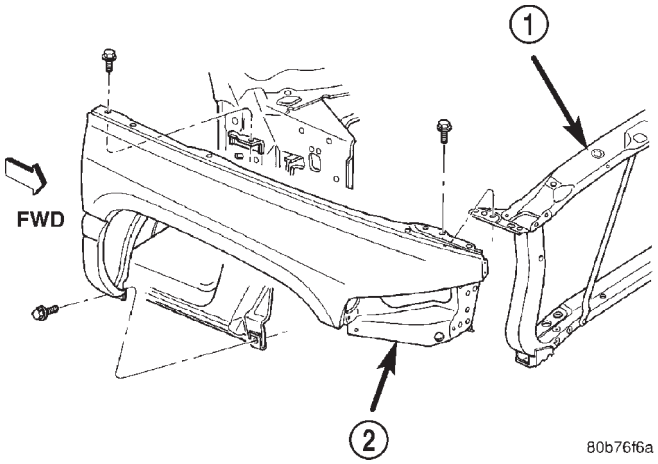

Fig. 17 Right Front Fender

1 - RADIATOR CLOSURE PANEL
2 - RIGHT FENDER

INSTALLATION

(1) Position fender on vehicle.
(2) Install bolts attaching top of fender to radiator closure panel.
(3) Install bolt attaching front fender to hinge pillar mounting bracket.
(4) Install bolts attaching bottom of front fender to rocker panel lower flange.
(5) Install bolts attaching front fender to radiator closure panel.
(6) Install bolts attaching front fender to cowl reinforcement.
(7) Secure air conditioning tubing to inner fender clips.
(8) Install front wheelhouse liner (Refer to 23 - BODY/EXTERIOR/FRONT END SPLASH SHIELDS - INSTALLATION).
(9) Install airbag sensor and connect wiring harness to airbag sensor.
(10) Connect wiring harness to headlamp connector.
(11) Secure wire harness tie-downs to wheelhouse.
(12) Install auxiliary battery tray and battery on right side, if equipped.
(13) Connect battery negative cable.
(14) Install front bumper (Refer to 13 - FRAMES & BUMPERS/BUMPERS/FRONT BUMPER - INSTALLATION).

FUEL FILL DOOR

REMOVAL

(1) Open fuel fill door.
(2) Remove bolts attaching fuel fill door to cargo box quarter panel (Fig. 18).
(3) Separate fuel fill door from vehicle.

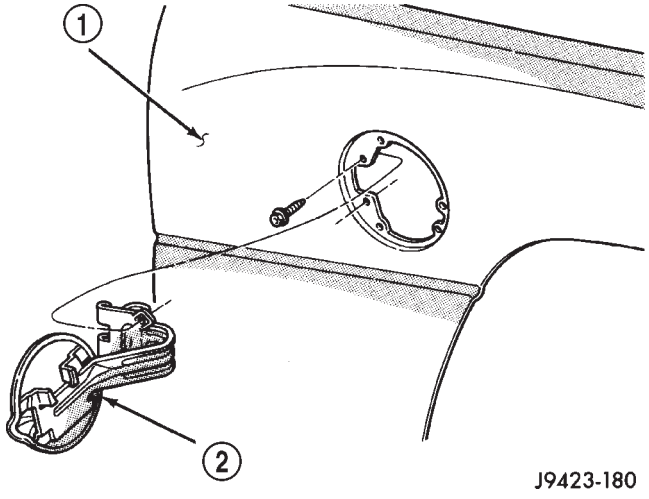

Fig. 18 Fuel Fill Door

1 - CARGO BOX
2 - FUEL FILL DOOR

INSTALLATION

(1) Separate fuel fill door on cargo box.
(2) Install bolts attaching fuel fill door to cargo box quarter panel.

REAR FENDER

REMOVAL

(1) Open fuel fill door, left side only.
(2) Remove screws attaching fuel fill neck to rear fender opening.
(3) Remove tail lamp. (Refer to 8 - ELECTRICAL/ LAMPS/LIGHTING - EXTERIOR/TAIL LAMP UNIT - REMOVAL)
(4) Remove nuts attaching rear fender to cargo box side panel through tail lamp opening.
(5) Remove the identification lamps. (Refer to 8 - ELECTRICAL/LAMPS/LIGHTING - EXTERIOR/ OUTBOARD IDENTIFICATION LAMP - REMOVAL)
(6) Remove bolts attaching bottom of fender to cargo box forward of rear wheel.
(7) Remove bolts attaching bottom of fender to cargo box rearward of rear wheel.
(8) Remove rear wheelhouse splash shields (Refer to 23 - BODY/EXTERIOR/REAR WHEELHOUSE SPLASH SHIELD - REMOVAL).
(9) Remove rear wheelhouse liner, if equipped (Refer to 23 - BODY/EXTERIOR/REAR WHEELHOUSE SPLASH SHIELD - REMOVAL).
(10) Remove nuts attaching front of rear fender to cargo box from behind side panel forward of wheelhouse.
(11) Remove screws attaching access panel to top of wheelhouse.
(12) Remove nuts attaching rear fender to cargo box through access hole in top of wheelhouse.
(13) Separate rear fender from cargo box side panel (Fig. 19).

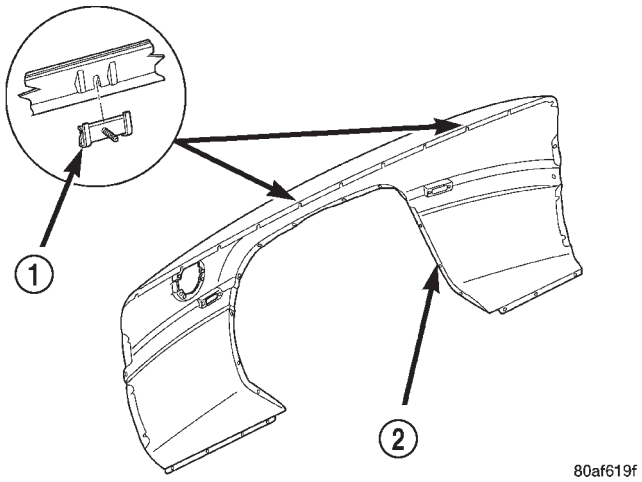

Fig. 19 Rear Fender - Dual Wheels

1 - RETAINER
2 - FENDER (DUAL WHEEL)

INSTALLATION

Ensure the retainers are in good condition.
(1) Position rear fender on cargo box side panel.
(2) Using access hole in top of wheelhouse, install nuts attaching rear fender to cargo box.
(3) Install screws attaching access panel to top of wheelhouse.
(4) From behind side panel forward of wheelhouse, install nuts attaching front of rear fender to cargo box.
(5) Install rear wheelhouse liners if equipped, (Refer to 23 - BODY/EXTERIOR/REAR WHEELHOUSE SPLASH SHIELD - INSTALLATION).
(6) Install rear wheelhouse splash shields (Refer to 23 - BODY/EXTERIOR/REAR WHEELHOUSE SPLASH SHIELD - INSTALLATION).
(7) Install bolts attaching bottom of fender to cargo box rearward of rear wheel.
(8) Install bolts attaching bottom of fender to cargo box forward of rear wheel.
(9) Install identification lamps. (Refer to 8 - ELECTRICAL/LAMPS/LIGHTING - EXTERIOR/OUTBOARD IDENTIFICATION LAMP - INSTALLATION)

REAR FENDER (Continued)

(10) Using tail lamp opening, install nuts attaching rear fender to cargo box side panel.

(11) Install tail lamp. (Refer to 8 - ELECTRICAL/ LAMPS/LIGHTING - EXTERIOR/TAIL LAMP UNIT - INSTALLATION)

(12) Install screws attaching fuel fill neck to rear fender opening.

REAR SPLASH SHIELD

REMOVAL

(1) Remove screws holding rear splash shield to rear wheel opening lip (Fig. 20).

(2) Remove push in fasteners holding rear splash shield to rear wheelhouse.

(3) Separate splash shield from vehicle.

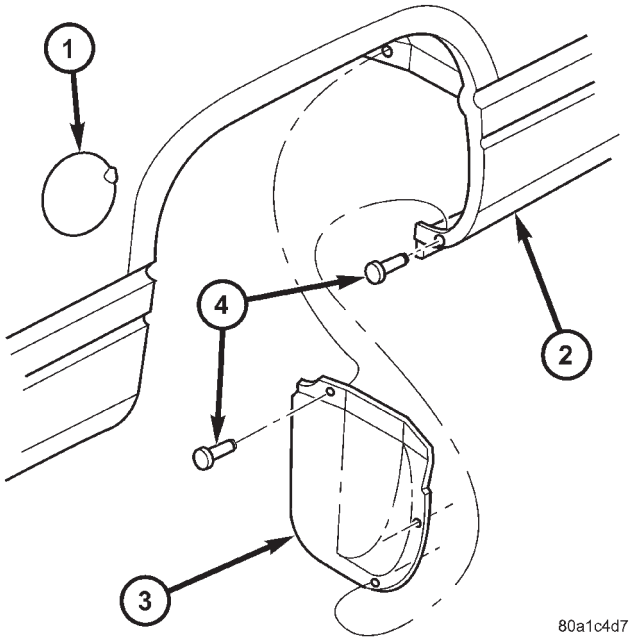

Fig. 20 REAR SPLASH SHIELDS

1 - FUEL FILLER DOOR
2 - REAR FENDER
3 - REAR SECTION REAR WHEEL HOUSE LINER
4 - PUSH IN FASTENERS

INSTALLATION

(1) Position splash shield in wheelhouse opening.

(2) Install plastic rivets holding rear splash shield to rear wheelhouse.

(3) Install plastic rivets holding rear splash shield to rear wheel opening lip.

REAR WHEELHOUSE LINER

REMOVAL

(1) Remove plastic rivets attaching rear wheelhouse liner to rear wheel opening lip (Fig. 21).

(2) Remove plastic rivets attaching rear wheelhouse liner to rear wheelhouse.

(3) Separate rear wheelhouse liner form vehicle.

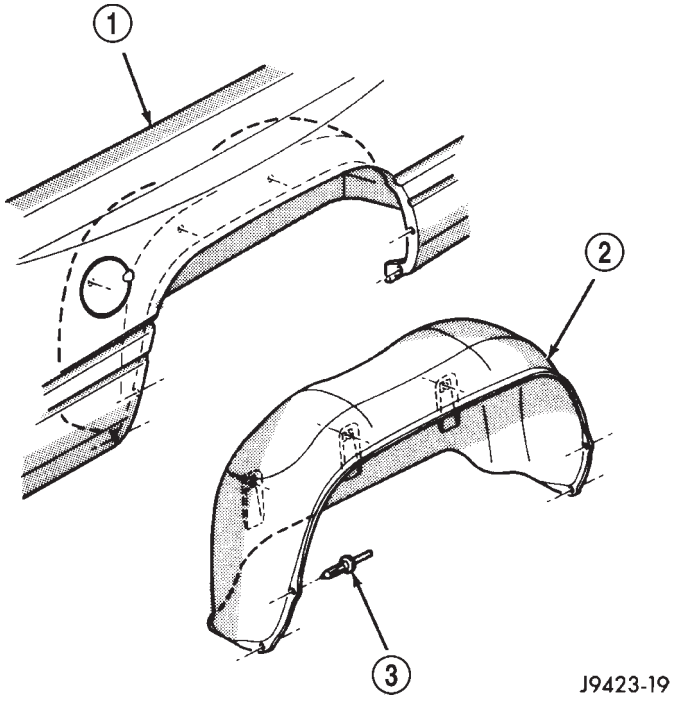

Fig. 21 Rear Wheelhouse Liner

1 - FENDER
2 - WHEEL HOUSELINER
3 - PLASTIC RIVET

INSTALLATION

(1) Position rear wheelhouse liner in wheelhouse opening.

(2) Install plastic rivets attaching rear wheelhouse liner to rear wheelhouse.

(3) Working front to rear, install plastic rivets attaching rear wheelhouse liner to rear wheel opening lip.

CARGO BOX

REMOVAL

CAUTION: The bolts attaching the cargo box to the frame are specially coated to provide a locking action. These bolts are not reusable and must be replaced each time the cargo box is removed or replaced.

(1) Open fuel fill door.
(2) Remove screws attaching fuel fill neck adaptor to cargo box side wall.
(3) Separate fuel fill neck from cargo box.
(4) Disengage tail lamp wire connector from main body harness at left rear frame rail.
(5) Remove bolts attaching cargo box to frame rails (Fig. 22).
(6) Using a suitable lifting device, separate cargo box from vehicle.

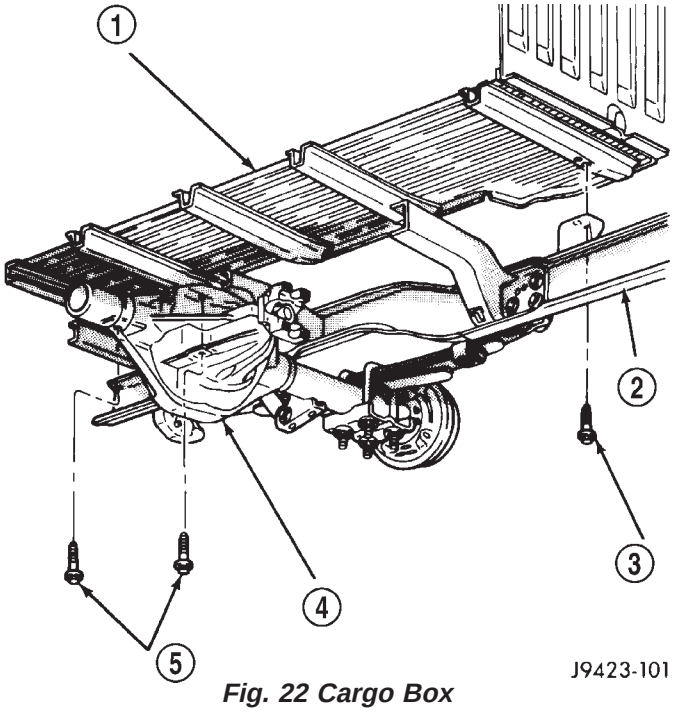

Fig. 22 Cargo Box

1 - CARGO BOX
2 - FRAME
3 - BOLT
4 - AXLE
5 - BOLT

INSTALLATION

(1) Using a suitable lifting device, position cargo box on vehicle.
(2) Install **new** bolts attaching cargo box to frame rails. Tighten bolts to 54 N·m (40 ft. lbs.) torque.
(3) Engage tail lamp wire connector to main body harness at left rear frame rail.
(4) Install fuel fill neck.

SIDE VIEW MIRROR

REMOVAL

(1) Remove door trim panel (Refer to 23 - BODY/ DOOR - FRONT/TRIM PANEL - REMOVAL).
(2) Remove mirror flag door seal (Fig. 23).
(3) Disengage power mirror wire connector from door harness, if equipped (Fig. 24).
(4) Remove nuts attaching sideview mirror to door frame (Fig. 25).
(5) Separate harness grommet form door frame, if equipped.
(6) Separate sideview mirror from vehicle.

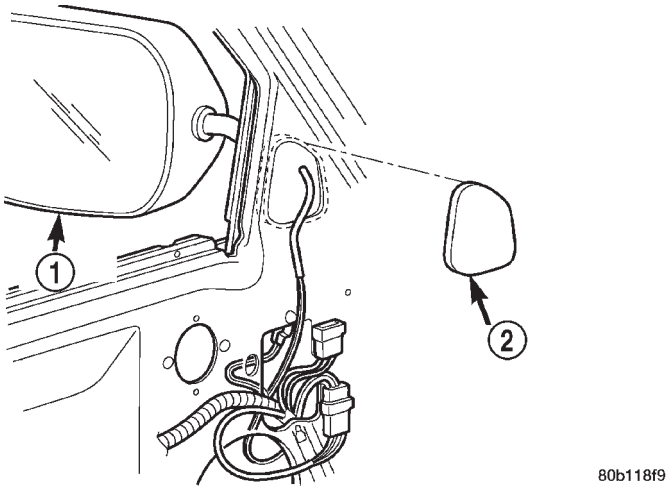

Fig. 23 Mirror Flag Door Seal

1 - MIRROR
2 - MIRROR FLAG SEAL

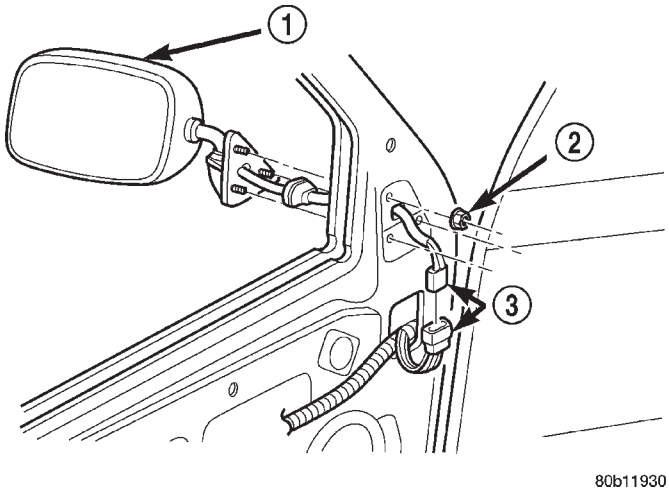

Fig. 24 Sideview Mirror—Power

1 - POWER MIRROR
2 - NUT
3 - CONNECTOR

SIDE VIEW MIRROR (Continued)

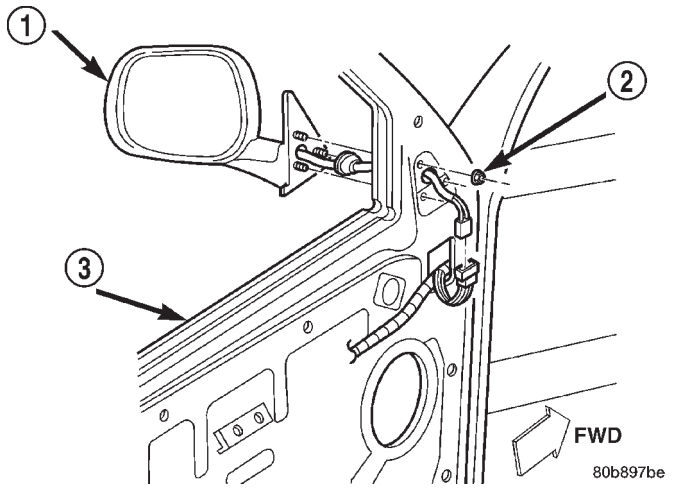

Fig. 25 Sideview Mirror

1 - MIRROR
2 - NUT
3 - DOOR

INSTALLATION

(1) Position sideview mirror on door.
(2) Install harness grommet in door frame, if equipped.
(3) Install nuts attaching sideview mirror to door (Fig. 25).
(4) Engage power mirror wire connector to harness, if equipped (Fig. 24).
(5) Install mirror flag door seal (Fig. 23).
(6) Install door trim panel (Refer to 23 - BODY/DOOR - FRONT/TRIM PANEL - INSTALLATION).

SIDE VIEW MIRROR - LOW MOUNTED

REMOVAL

(1) Remove bolts attaching lower support legs to outer door panel.
(2) Remove bolts attaching upper support arms to outer door panel (Fig. 26).
(3) Separate mirror from door.

INSTALLATION

(1) Position mirror on door.
(2) Place insulation washers between support frame and door panel
(3) Install bolts attaching upper support arms to outer door panel.
(4) Install bolts attaching lower support legs to outer door panel.

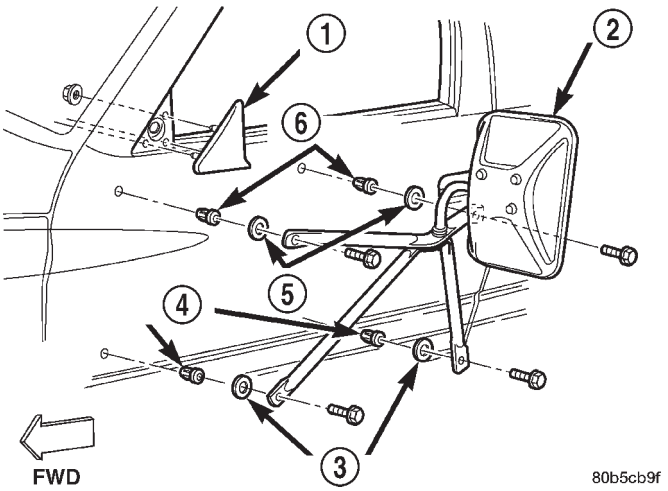

Fig. 26 Low Mounted Side View Mirror

1 - FLAG COVER
2 - MIRROR
3 - WASHER
4 - NUTSERT
5 - WASHER
6 - NUTSERT

SIDE VIEW MIRROR GLASS

REMOVAL

WARNING: ALWAYS WEAR EYE AND HAND PROTECTION WHEN SERVICING THE MIRROR ASSEMBLY. FAILURE TO OBSERVE THESE WARNINGS MAY RESULT IN PERSONAL INJURY FROM BROKEN GLASS.

(1) Carefully pull/pry the broken glass holder from the mirror assembly.
(2) Disconnect the heated mirror electrical connectors from the terminals on the mirror glass holder, if equipped.

INSTALLATION

CAUTION: It is important to make sure the motor is square to the glass holder (attaching fingers) prior to glass holder attachment, otherwise the glass holder could be installed incorrectly causing poor retention and possible repeat failure.

(1) Position the new mirror glass holder to the mirror assembly.

NOTE: Position the mirror glass holder so that the moisture drain hole on the mirror glass holder assembly is facing downward.

(2) Align the mirror glass holder's attaching fingers to the mirror motor housing.

SIDE VIEW MIRROR GLASS (Continued)

NOTE: Ensure that the protective rubber cover of the mirror motor housing is positioned correctly around the bottom of the fingers area.

(3) Using one hand, firmly press the mirror glass holder assembly into place while at the same time supporting the housing assembly from the backside with the other hand.

NOTE: Pressure must be applied equally over the center portion of the mirror to engage the mirror glass holder's attaching fingers to the corresponding fingers on the housing assembly. One or more clicks may be heard when finger engagement takes place.

(4) Verify retention of the mirror glass holder assembly by gently pulling outward on the mirror glass holder.

HOOD

TABLE OF CONTENTS

HINGE

REMOVAL

(1) Open hood and support the side that requires hinge replacement.
(2) Mark all bolt and hinge attachment locations with a grease pencil or equivalent to provide reference marks for installation.
(3) Remove nuts attaching hood to hinge (Fig. 1).
(4) Remove bolts attaching hood hinge to cowl.
(5) Separate hinge from vehicle.

INSTALLATION

(1) If necessary, paint new hinge before installation.
(2) Position hinge on vehicle.
(3) Align all marks
(4) Install bolts attaching hood hinge to cowl.
(5) Install nuts attaching hood to hinge.

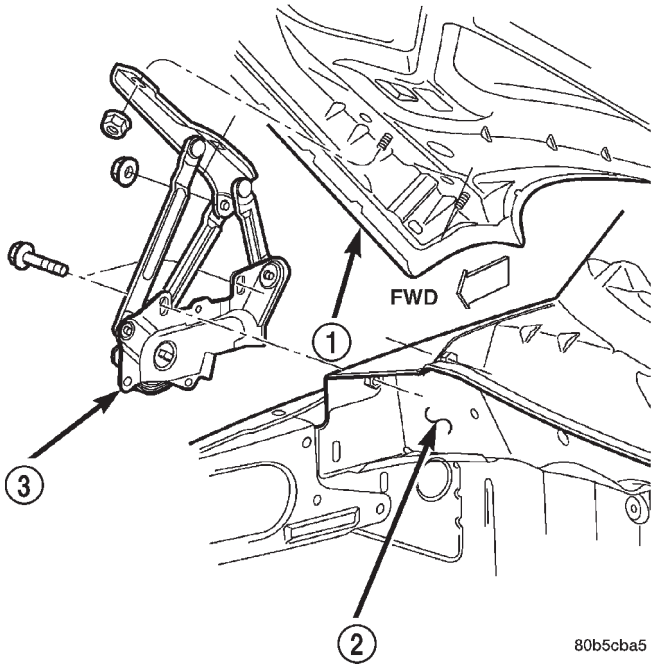

Fig. 1 Hood Hinge

1 - HOOD
2 - COWL
3 - HINGE

HOOD

REMOVAL

(1) Disconnect the under hood lamp wire connector.

(2) Disconnect the air temperature sensor wire connector, if equipped.

(3) Mark all bolt and hinge attachment locations with a grease pencil or equivalent to provide reference marks for installation.

(4) Remove top nuts attaching hood to hinge and loosen bottom nuts until they can be removed by hand (Fig. 2).

(5) With assistance of a helper at the opposite side of the vehicle to support the hood, remove the bottom nuts. Separate the hood from the vehicle.

INSTALLATION

(1) With assistance of a helper, position hood on vehicle loosely install bottom nuts.

Align all marks, install top nuts and tighten bottom nuts. The hood should be aligned to 5 mm (0.2 in.) gap to the front fenders and flush across the top surfaces along fenders.

(2) Connect the air temperature sensor wire connector, if equipped.

(3) Connect the under hood lamp wire connector.

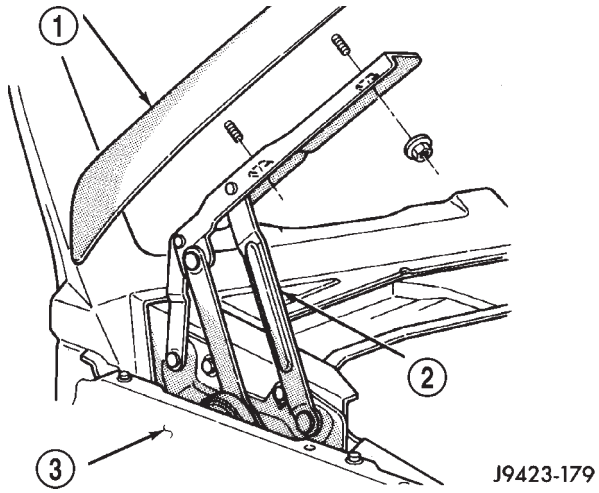

Fig. 2 Hood

1 - HOOD
2 - HOOD HINGE
3 - FENDER

ADJUSTMENTS

ADJUSTMENT

(1) Loosen the hinge arm-to-hood panel bolts at each side of the vehicle.

(2) Loosen the hood latch screws.

(3) Close the hood. Adjust the fore/aft position.

(4) Raise the hood. Tighten the hinge arm-to-hood panel bolts.

(5) Tighten the latch screws.

(6) Lower the hood. Inspect clearance between the hood and the cowl cover.

LATCH

REMOVAL

(1) Remove bolts attaching hood latch to radiator closure panel crossmember (Fig. 3).
(2) Separate hood latch from crossmember.
(3) Disconnect release cable from hood latch.

INSTALLATION

(1) Connect release cable to hood latch.
(2) Position hood latch on crossmember.
(3) Install bolts attaching hood latch to radiator closure panel crossmember.

ADJUSTMENTS

ADJUSTMENT

(1) Loosen the hood latch screws.
(2) Move the latch to the correct location and lightly tighten the screws.
(3) Close the hood slowly and observe the latching operation.
(4) As necessary, re-adjust the latch position and tighten the screws.

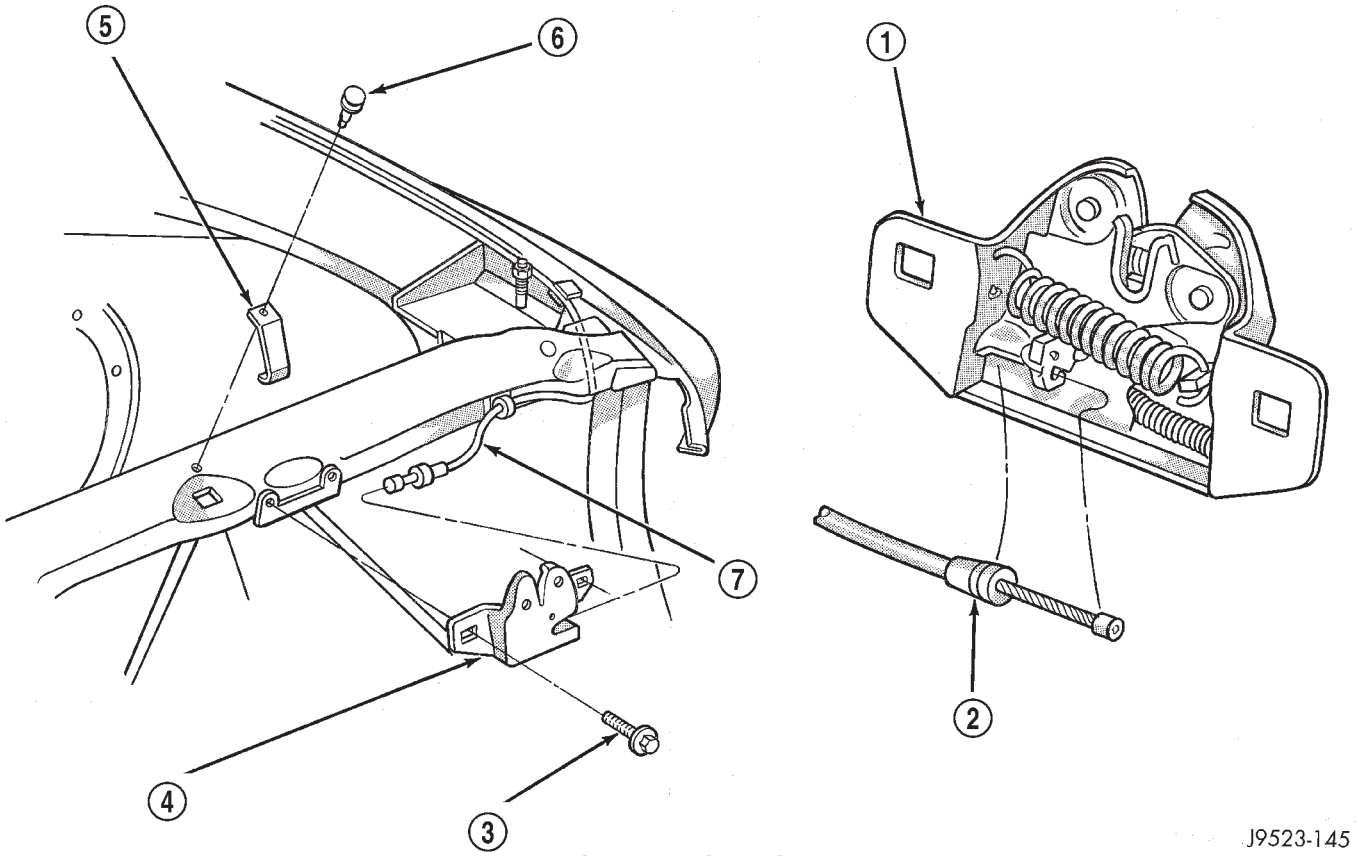

Fig. 3 Hood Latch

1 - LATCH ASSEMBLY
2 - CABLE
3 - SCREW
4 - LATCH ASSEMBLY
5 - HOOD SECONDARY SKID PLATE
6 - PUSH—IN FASTENER
7 - CABLE

LATCH RELEASE CABLE

REMOVAL

(1) Remove hood latch (Refer to 23 - BODY/HOOD/ LATCH - REMOVAL).
(2) Disconnect release cable from hood latch.
(3) Detach the release cable from the retainer clips in the engine compartment.
(4) Separate the release cable grommet from the dash panel hole.
(5) From the inside of the vehicle, remove the screws attaching the hood release handle to the bottom of the instrument panel (Fig. 4).
(6) Pull/route the hood release cable through the dash panel hole and remove it via the inside of the vehicle.

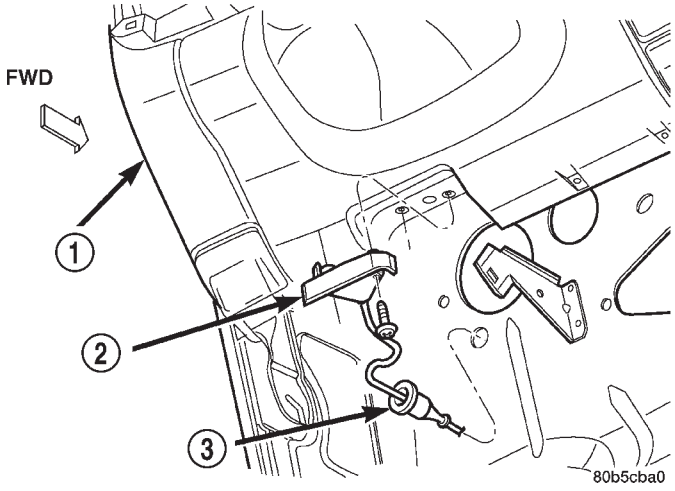

Fig. 4 Hood Release Handle

1 - INSTRUMENT PANEL
2 - HOOD RELEASE HANDLE
3 - HOOD RELEASE CABLE

INSTALLATION

NOTE: If replacement hood latch is also being installed, ensure that it is thoroughly lubricated.

(1) From inside the vehicle, pull/route the hood release cable through the dash panel hole and into the engine compartment.
(2) Install the hood release handle.
(3) Install the cable grommet in the dash panel hole.
(4) Attach the release cable to the retainer clips in the engine compartment.
(5) Attach release cable to hood latch.
(6) Install hood latch (Refer to 23 - BODY/HOOD/ LATCH - INSTALLATION).
(7) Test the hood latch release cable for proper operation.

LATCH STRIKER

REMOVAL

(1) Open hood.
(2) Remove bolts attaching hood latch striker to hood (Fig. 5).
(3) Separate hood latch striker from hood.

INSTALLATION

(1) Position hood latch striker on hood.
(2) Install bolts attaching hood latch striker to hood.

ADJUSTMENTS

ADJUSTMENT

(1) Open the hood.
(2) Loosen the latch striker screws.
(3) Slowly close the hood and observe the latching operation.As necessary, re-adjust the striker position. Tighten the screws.

SAFETY LATCH

REMOVAL

(1) Open hood.
(2) Remove bolts attaching hood safety catch to hood (Fig. 5) and (Fig. 6).
(3) Separate safety catch from hood.

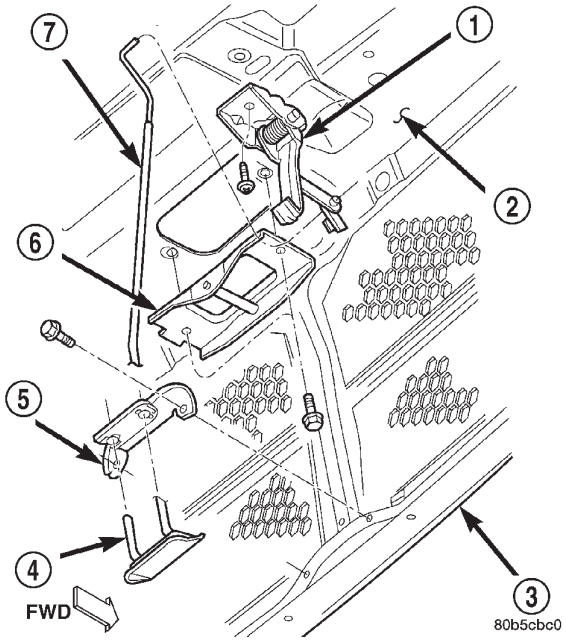

Fig. 5 Hood Safety Catch and Latch Striker - SLT

1 - SAFETY CATCH
2 - HOOD
3 - GRILLE
4 - SAFETY CATCH RELEASE HANDLE
5 - GUIDE
6 - STRIKER
7 - HANDLE-TO-CATCH ROD

INSTALLATION

(1) Position safety catch on hood.
(2) Engage catch rod to catch.
(3) Install bolts attaching hood safety catch to hood.

SILENCER PAD

REMOVAL

(1) Disconnect underhood lamp wire connector.
(2) Disconnect air temperature sensor connector, if equipped.
(3) Remove push-in fasteners holding silencer to hood (Fig. 7).
(4) Separate hood silencer from hood.

INSTALLATION

(1) Position hood silencer on hood.
(2) Install push-in fasteners holding silencer to hood.

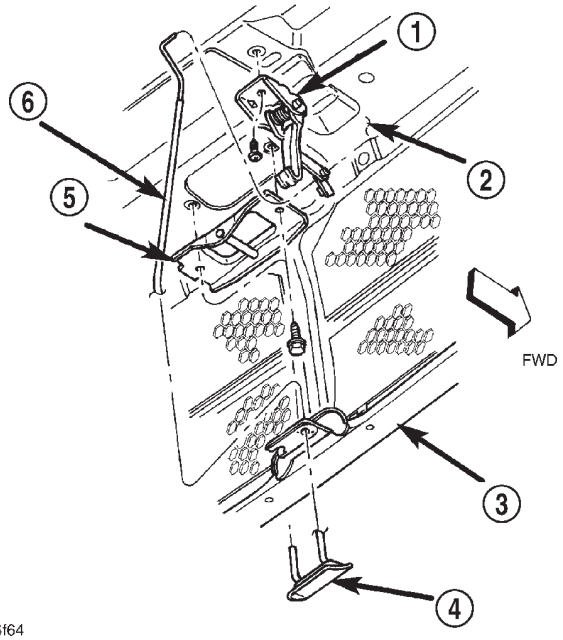

Fig. 6 Hood Safety Catch and Latch Striker - Sport

1 - SAFETY LATCH
2 - HOOD
3 - GRILLE FRAME
4 - RELEASE HANDLE
5 - STRIKER
6 - HANDLE - TO - LATCH ROD

(3) Connect air temperature sensor connector, if equipped.
(4) Connect underhood lamp wire connector.

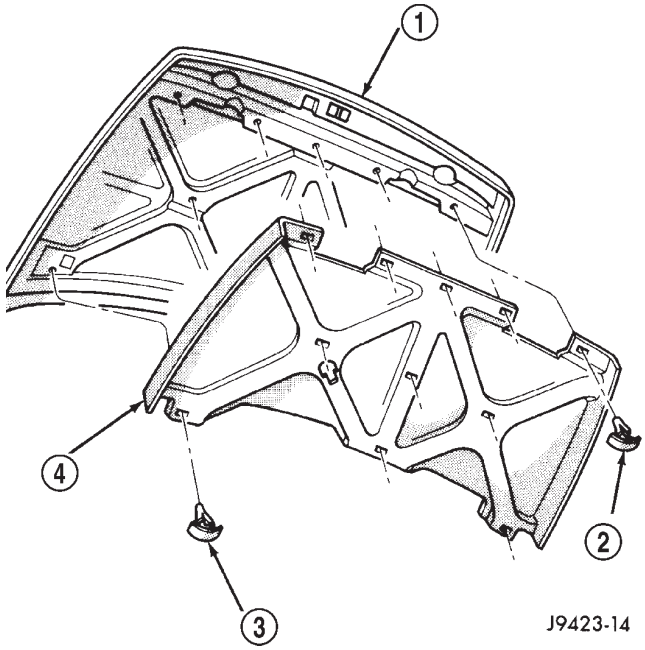

Fig. 7 Hood Silencer

1 - HOOD
2 - CLIP
3 - CLIP
4 - INSULATOR PAD

INSTRUMENT PANEL SYSTEM

TABLE OF CONTENTS

INSTRUMENT PANEL SYSTEM

DESCRIPTION

The instrument panel is located at the front of the passenger compartment. This instrument panel is molded from a blend of various plastics that are mechanically attached to the vehicle. Colors are molded into the plastic components to minimize appearance degradation from scratches or abrasions. The panel components are internally ribbed and riveted to steel reinforcements for additional structural integrity and dimensional stability. The instrument panel surface components are designed to deform upon impact without breaking. This type of construction provides improved energy absorption which, in conjunction with the dual airbags and seat belts, helps to improve occupant protection.

The top of the instrument panel is secured to the top of the dash panel near the base of the windshield using screws. An end bracket integral to each end of the instrument panel structure is secured to each cowl side inner panel with a screw. A stamped metal bracket supports the center of the instrument panel by securing it to the top of the floor panel transmission tunnel below the instrument panel with screws. The instrument cluster, radio, heater-air conditioner control, passenger airbag, glove box, electrical junction block, Central Timer Module (CTM), accessory switches, ash receiver, cigar lighter, accessory power outlet, park brake release handle, inside hood release handle, as well as numerous other components are secured to and supported by this unit.

The instrument panel for this vehicle includes the following major features:

- **Cluster Bezel** - This molded plastic bezel is secured with snap clips to the instrument panel supporting structure. It trims out the edges of the headlamp switch, instrument cluster, radio, heater-air conditioner controls, passenger airbag on-off switch, and the heated seat switches on vehicles so equipped. On vehicles without the heated seat option, a small storage cubby bin is provided in the cluster bezel. This bezel also incorporates three completely adjustable panel outlets for the climate control system, and fills the opening between the instrument cluster and the top of the steering column where it passes through the instrument panel.
- **Cup Holder/Storage Bin** - Vehicles equipped with an automatic transmission feature a latching fold-down, adjustable cup holder located on the lower instrument panel between the glove box and the ash receiver. Vehicles equipped with a manual transmission have a lighted storage bin on the instrument panel in place of the cup holder.

INSTRUMENT PANEL SYSTEM (Continued)

- **Glove Box** - The hinged bin-type glove box in the passenger side of the instrument panel features a recessed paddle-operated latch handle. Three molded hook formations on the lower edge of the glove box door are engaged with and pivot on three hinge pins integral to the lower edge of the instrument panel support structure. The glove box door also serves as the passenger side knee blocker. A honeycomb structure between the inner and outer glove box door panels helps to absorb the impact load and distribute it to the instrument panel structure.
- **Steering Column Opening Cover** - The steering column opening cover serves as the driver side knee blocker. This molded plastic cover has an integral ribbed plastic liner concealed behind it, for increased strength and integrity. The steering column opening cover transfers impact loads to the instrument panel structural support.
- **Top Cover** - The instrument panel top cover or base trim is the molded, grained, and color impregnated plastic outer skin of the instrument panel structural support.

Hard wired circuitry connects the electrical components on the instrument panel to each other through the electrical system of the vehicle. These hard wired circuits are integral to several wire harnesses, which are routed throughout the vehicle and retained by many different methods. These circuits may be connected to each other, to the vehicle electrical system and to the instrument panel components through the use of a combination of soldered splices, splice block connectors and many different types of wire harness terminal connectors and insulators. Refer to the appropriate wiring information. The wiring information includes complete circuit diagrams, proper wire and connector repair procedures, further details on wire harness routing and retention, as well as pin-out and location views for the various wire harness connectors, splices, and grounds.

OPERATION

The instrument panel serves as the command center of the vehicle, which necessarily makes it a very complex unit. The instrument panel is designed to house the controls and monitors for standard and optional powertrains, climate control systems, audio systems, safety systems, and many other comfort or convenience items. When the components of the instrument panel structural support are properly assembled and secured in the vehicle they provide superior instrument panel stiffness and integrity to help reduce buzzes, squeaks, and rattles. This type of construction also provides improved energy absorption which, in conjunction with the dual airbags and seat belts, helps to improve occupant protection.

The instrument panel is also designed so that all of the various controls can be safely reached and the monitors can be easily viewed by the vehicle operator when driving, while still allowing relative ease of access to each of these items for service. Modular instrument panel construction allows all of the gauges and controls to be serviced from the front of the panel. In addition, most of the instrument panel electrical components can be accessed without complete instrument panel removal. However, if necessary, the instrument panel can be removed from the vehicle as an assembly.

The steering column opening cover with its integral knee blocker located on the driver side of the instrument panel works in conjunction with the airbag system in a frontal vehicle impact to keep the driver properly positioned for an airbag deployment. In addition, removal of this component provides access to the steering column mounts, the steering column wiring, the Junction Block (JB) (removal of a snap-fit fuse access panel on the left end of the instrument panel allows access to the fuses and circuit breakers), the Central Timer Module (CTM), the Infinity speaker filter choke and relay unit, much of the instrument panel wiring, and the gear selector indicator cable (automatic transmission).

In a frontal collision, the glove box door on the passenger side of the instrument panel provides the same function for the front seat passenger as the knee blocker does for the driver. The glove box door also incorporates a recessed latch handle. Removal of the glove box provides access to the passenger airbag, the glove box lamp and switch, the radio antenna coaxial cable, the heating and air conditioning vacuum harness connector, and additional instrument panel wiring.

Removal of the instrument panel cluster bezel allows access to the headlamp switch, instrument cluster, radio, passenger airbag on-off switch, heated seat switches (if equipped), and the heating and air conditioning control. Removal of the instrument cluster allows access to the cluster illumination and indicator bulbs, and more of the instrument panel wiring. Complete instrument panel removal is required for service of most components internal to the heating and air conditioning system housing, including the heater core and the evaporator.

See the owner's manual in the vehicle glove box for more information on the features, use and operation of all of the components and systems mounted on or in the instrument panel.

ASH RECEIVER

REMOVAL

WARNING: ON VEHICLES EQUIPPED WITH AIRBAGS, DISABLE THE AIRBAG SYSTEM BEFORE ATTEMPTING ANY STEERING WHEEL, STEERING COLUMN, SEAT BELT TENSIONER, OR INSTRUMENT PANEL COMPONENT DIAGNOSIS OR SERVICE. DISCONNECT AND ISOLATE THE BATTERY NEGATIVE (GROUND) CABLE, THEN WAIT TWO MINUTES FOR THE AIRBAG SYSTEM CAPACITOR TO DISCHARGE BEFORE PERFORMING FURTHER DIAGNOSIS OR SERVICE. THIS IS THE ONLY SURE WAY TO DISABLE THE AIRBAG SYSTEM. FAILURE TO TAKE THE PROPER PRECAUTIONS COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY.

(1) Disconnect and isolate the battery negative cable.

(2) Open the instrument panel ash receiver.

(3) From the open position, close the ash receiver slightly and pull it straight back far enough to disengage it from the pivot pins in the lower instrument panel.

(4) Remove the three screws that secure the ash receiver flame shield to the lower instrument panel (Fig. 1).

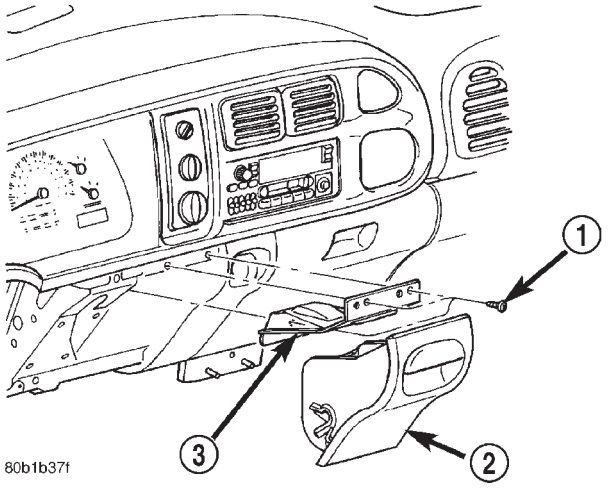

Fig. 1 Instrument Panel Ash Receiver Remove/ Install

1 - SCREW
2 - ASH RECEIVER
3 - FLAME SHIELD

(5) Pull the ash receiver flame shield out from the instrument panel far enough to disengage the two retaining tabs on the top of the shield from the mounting holes in the instrument panel.

(6) Lower the flame shield from the instrument panel far enough to access the ash receiver lamp and hood.

(7) Squeeze the ash receiver lamp and hood bracket to disengage the unit from the mounting hole in the flame shield.

(8) Remove the ash receiver flame shield from the instrument panel.

INSTALLATION

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(1) Position the ash receiver flame shield to the instrument panel (Fig. 1).

(2) Squeeze the ash receiver lamp and hood bracket and engage the unit to the mounting hole in the flame shield.

(3) Insert the two retaining tabs on the top of the ash receiver flame shield into the mounting holes in the instrument panel, then push the shield forward to engage the tabs with the instrument panel.

(4) Install and tighten the three screws that secure the ash receiver flame shield to the instrument panel. Tighten the screws to 2 N·m (20 in. lbs.).

(5) Align the pivot receptacles on each side of the ash receiver with the pivot pins in the lower instrument panel.

(6) Push the ash receiver forward onto the pivot pins in the instrument panel until the open ash receiver snaps into place.

(7) Reconnect the battery negative cable.

CLUSTER BEZEL

REMOVAL

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(1) Disconnect and isolate the battery negative cable.

(2) If the vehicle is equipped with an automatic transmission, turn the ignition switch to the Off position (not Lock), set the parking brake, and place the automatic transmission gear selector lever in the Low position.

(3) If the vehicle is so equipped, set the tilt steering column in its lowest position.

(4) Using a trim stick or another suitable wide flat-bladed tool, gently pry around the perimeter of the cluster bezel to disengage the snap clips from their receptacles in the instrument panel (Fig. 2).

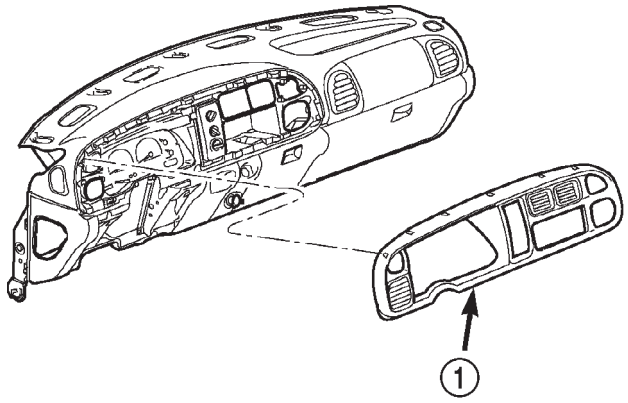

Fig. 2 Cluster Bezel Remove/Install

1 - CLUSTER BEZEL

(5) Remove the cluster bezel from the instrument panel.

INSTALLATION

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(1) Position the cluster bezel to the instrument panel (Fig. 2).

(2) Align the snap clips on the cluster bezel with the receptacles in the instrument panel.

(3) Press firmly on the cluster bezel over each of the snap clip locations until each of the snap clips is fully engaged in its receptacle.

(4) Reconnect the battery negative cable.

CUBBY BIN

REMOVAL

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(1) Disconnect and isolate the battery negative cable.

(2) Remove the cluster bezel from the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ CLUSTER BEZEL - REMOVAL).

(3) Remove the three screws that secure the cubby bin to the instrument panel (Fig. 3).

(4) Remove the cubby bin from the instrument panel.

CUBBY BIN (Continued)

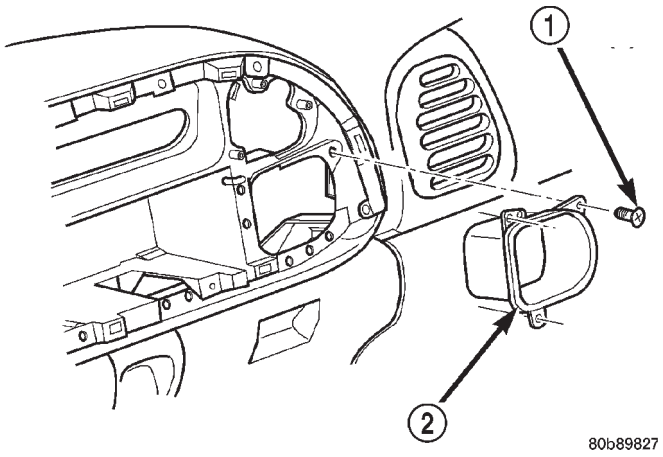

Fig. 3 Instrument Panel Cubby Bin Remove/Install

1 - SCREW (3)
2 - CUBBY BIN

INSTALLATION

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(1) Position the cubby bin to the instrument panel (Fig. 3).

(2) Install and tighten the three screws that secure the cubby bin to the instrument panel. Tighten the screws to 2 N·m (20 in. lbs.).

(3) Install the cluster bezel onto the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ CLUSTER BEZEL - INSTALLATION).

(4) Reconnect the battery negative cable.

CUP HOLDER

REMOVAL

Vehicles equipped with an automatic transmission have a lighted fold-down cup holder installed on the instrument panel just inboard of the glove box. Vehicles equipped with a manual transmission have a lighted storage bin installed on the instrument panel in place of the fold-down cup holder.

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(1) Disconnect and isolate the battery negative cable.

(2) Remove the cluster bezel from the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ CLUSTER BEZEL - REMOVAL).

(3) Unlatch and fold the cup holder down from the instrument panel to its open position.

(4) Remove the six screws that secure the cup holder to the instrument panel (Fig. 4).

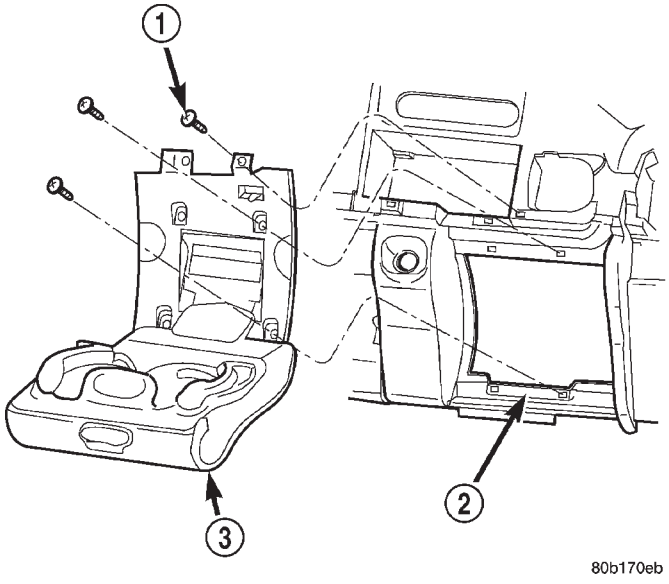

Fig. 4 Instrument Panel Cup Holder

1 - SCREW
2 - INSTRUMENT PANEL
3 - CUP HOLDER

(5) Pull the cup holder away from the instrument panel far enough to access the illumination lamp and hood unit.

(6) Disengage the illumination lamp and hood retainer clip from the back of the instrument panel cup holder unit.

(7) Remove the cup holder unit from the instrument panel.

CUP HOLDER (Continued)

INSTALLATION

Vehicles equipped with an automatic transmission have a lighted fold-down cup holder installed on the instrument panel just inboard of the glove box. Vehicles equipped with a manual transmission have a lighted storage bin installed on the instrument panel in place of the fold-down cup holder.

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(1) Position the cup holder unit near the instrument panel.

(2) Engage the illumination lamp and hood retainer clip to the back of the instrument panel cup holder unit.

(3) Position the cup holder unit onto the instrument panel (Fig. 4).

(4) Install and tighten the six screws that secure the cup holder to the instrument panel. Tighten the screws to 2 N·m (20 in. lbs.).

(5) Reinstall the cluster bezel onto the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ CLUSTER BEZEL - INSTALLATION).

(6) Reconnect the battery negative cable.

GLOVE BOX

REMOVAL

REMOVAL

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(1) Disconnect and isolate the battery negative cable.

(2) Open the glove box.

(3) While holding the glove box door securely with one hand, push the center of the glove box bin towards the front of the vehicle (Fig. 5). Flex the center of the glove box bin far enough so that the glove box stops on each side of the bin will clear the sides of the instrument panel glove box opening.

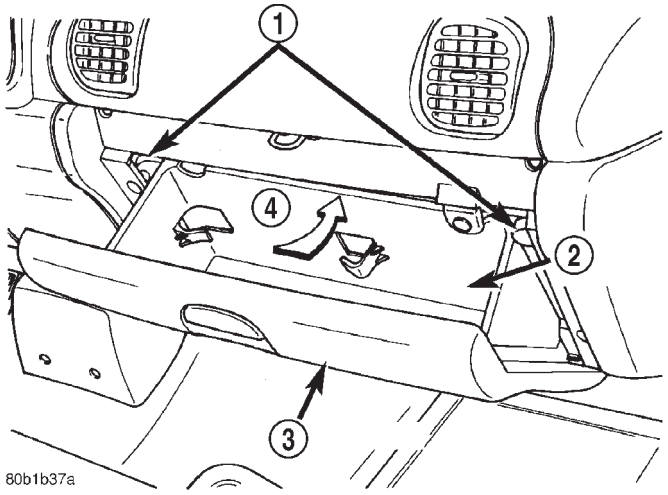

Fig. 5 Glove Box

1 - GLOVE BOX STOPS
2 - GLOVE BOX BIN
3 - GLOVE BOX DOOR
4 - PUSH

(4) Roll the glove box downward until the stop bumpers are beyond the sides of the instrument panel glove box opening, then release the bin.

(5) Lift the bottom of the glove box upward to disengage the three glove box hinge hooks from the three hinge pins on the instrument panel.

DISASSEMBLY - GLOVE BOX

The only serviced component of the glove box is the glove box bin. If any other component of the glove box is faulty or damaged, the entire glove box assembly must be replaced.

(1) Disconnect and isolate the battery negative cable.

(2) Remove the glove box from the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ GLOVE BOX - REMOVAL).

(3) Remove the two screws that secure each outboard flange of the glove box bin to the glove box door (Fig. 6).

(4) Pull the top of the bin away from the top of the glove box door.

GLOVE BOX (Continued)

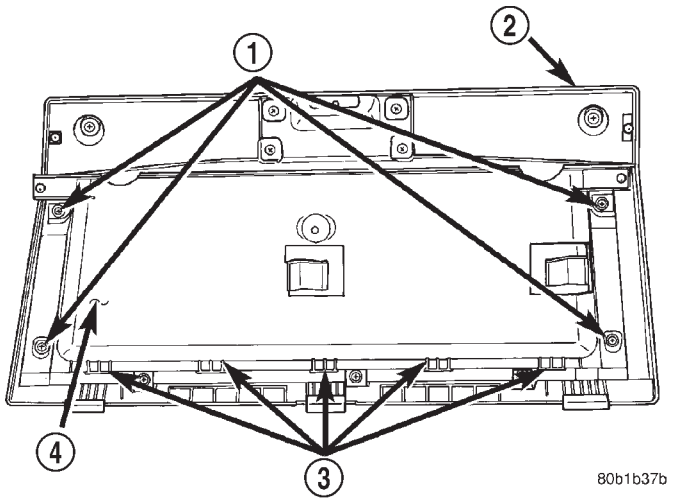

Fig. 6 Glove Box Disassemble/Assemble

1 - SCREWS
2 - GLOVE BOX DOOR
3 - HOOKS
4 - GLOVE BOX BIN

(5) Disengage the five hook formations on the bottom of the glove box bin from the slots near the bottom of the inner glove box door.

(6) Remove the glove box bin from the glove box door.

ASSEMBLY - GLOVE BOX

(1) Position the glove box bin onto the glove box door.

(2) Engage the five hook formations on the bottom of the glove box bin with the slots near the bottom of the inner glove box door (Fig. 6).

(3) Position the top of the bin to the top of the glove box door.

(4) Install and tighten the two screws that secure each outboard flange of the glove box bin to the glove box door. Tighten the screws to 2.2 N·m (20 in. lbs.).

(5) Reinstall the glove box onto the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ GLOVE BOX - INSTALLATION).

(6) Reconnect the battery negative cable.

INSTALLATION

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(1) Position the glove box to the instrument panel.

(2) Engage the three hinge hooks near the bottom of the glove box door with the three hinge pins on the instrument panel.

(3) While holding the glove box door securely with one hand, push the center of the glove box bin towards the front of the vehicle (Fig. 5). Flex the center of the glove box bin far enough so that the glove box stops on each side of the bin will clear the sides of the instrument panel glove box opening.

(4) Roll the glove box upward until the stop bumpers are beyond the sides of the instrument panel glove box opening, then release the bin.

(5) Close the glove box.

(6) Reconnect the battery negative cable.

GLOVE BOX LATCH STRIKER

REMOVAL

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(1) Disconnect and isolate the battery negative cable.

(2) Remove the trim from the upper glove box opening. (Refer to 23 - BODY/INSTRUMENT PANEL/GLOVE BOX OPENING UPPER TRIM - REMOVAL).

(3) Remove the two screws that secure the latch striker to the instrument panel glove box opening upper reinforcement (Fig. 7).

(4) Remove the latch striker from the instrument panel glove box opening upper reinforcement.

GLOVE BOX LATCH STRIKER (Continued)

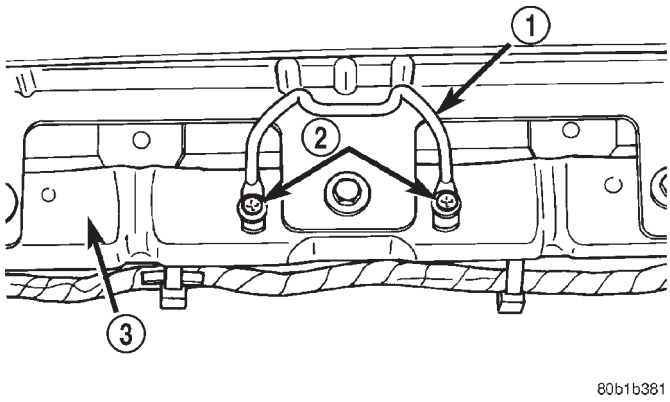

Fig. 7 Glove Box Latch Striker Remove/Install

1 - LATCH STRIKER
2 - SCREWS
3 - GLOVE BOX OPENING UPPER REINFORCEMENT

INSTALLATION

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(1) Position the latch striker onto the instrument panel glove box opening upper reinforcement (Fig. 7).

(2) Install and tighten the two screws that secure the latch striker to the instrument panel glove box opening upper reinforcement. Tighten the screws to 2 N·m (20 in. lbs.).

(3) Reinstall the trim onto the upper glove box opening. (Refer to 23 - BODY/INSTRUMENT PANEL/GLOVE BOX OPENING UPPER TRIM - INSTALLATION).

(4) Reconnect the battery negative cable.

GLOVE BOX OPENING UPPER TRIM

REMOVAL

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(1) Disconnect and isolate the battery negative cable.

(2) Open the glove box.

(3) Remove the three screws that secure the trim to the instrument panel glove box opening upper reinforcement (Fig. 8).

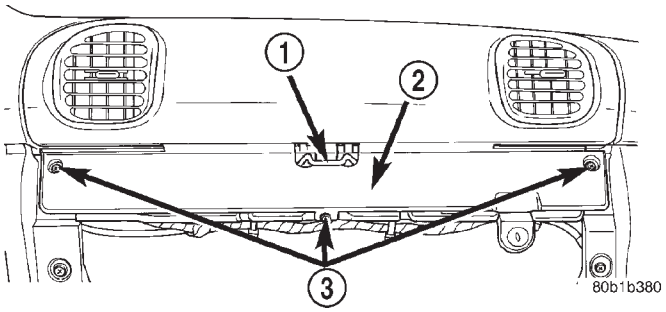

Fig. 8 Glove Box Opening Upper Trim Remove/Install

1 - LATCH STRIKER
2 - TRIM STRIP
3 - SCREWS

(4) Remove the trim from the instrument panel glove box opening upper reinforcement.

INSTALLATION

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(1) Position the trim onto the instrument panel glove box opening upper reinforcement (Fig. 8).

GLOVE BOX OPENING UPPER TRIM (Continued)

(2) Install and tighten the three screws that secure the trim to the instrument panel glove box opening upper reinforcement. Tighten the mounting screws to 2 N·m (20 in. lbs.).
(3) Close the glove box.
(4) Reconnect the battery negative cable.

INSTRUMENT PANEL TOP COVER

REMOVAL

WARNING: ON VEHICLES EQUIPPED WITH AIRBAGS, DISABLE THE AIRBAG SYSTEM BEFORE ATTEMPTING ANY STEERING WHEEL, STEERING COLUMN, SEAT BELT TENSIONER, OR INSTRUMENT PANEL COMPONENT DIAGNOSIS OR SERVICE. DISCONNECT AND ISOLATE THE BATTERY NEGATIVE (GROUND) CABLE, THEN WAIT TWO MINUTES FOR THE AIRBAG SYSTEM CAPACITOR TO DISCHARGE BEFORE PERFORMING FURTHER DIAGNOSIS OR SERVICE. THIS IS THE ONLY SURE WAY TO DISABLE THE AIRBAG SYSTEM. FAILURE TO TAKE THE PROPER PRECAUTIONS COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY.

(1) Disconnect and isolate the battery negative cable.
(2) Remove the cluster bezel from the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ CLUSTER BEZEL - REMOVAL).
(3) Remove the passenger airbag from the instrument panel. (Refer to 8 - ELECTRICAL/RESTRAINTS/PASSENGER AIRBAG - REMOVAL).
(4) Remove the instrument panel from the vehicle. (Refer to 23 - BODY/INSTRUMENT PANEL - REMOVAL).
(5) Place the instrument panel on a suitable work surface. Be certain to take the proper precautions to protect the instrument panel from any possible cosmetic damage.
(6) Remove the screws around the perimeter of the top cover that secure it to the instrument panel structural support, the defroster duct, and the demister ducts.
(7) Lift the top cover off of the instrument panel.

INSTALLATION

WARNING: ON VEHICLES EQUIPPED WITH AIRBAGS, DISABLE THE AIRBAG SYSTEM BEFORE ATTEMPTING ANY STEERING WHEEL, STEERING COLUMN, SEAT BELT TENSIONER, OR INSTRUMENT PANEL COMPONENT DIAGNOSIS OR SERVICE. DISCONNECT AND ISOLATE THE BATTERY NEGATIVE (GROUND) CABLE, THEN WAIT TWO MINUTES FOR THE AIRBAG SYSTEM CAPACITOR TO DISCHARGE BEFORE PERFORMING FURTHER DIAGNOSIS OR SERVICE. THIS IS THE ONLY SURE WAY TO DISABLE THE AIRBAG SYSTEM. FAILURE TO TAKE THE PROPER PRECAUTIONS COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY.

(1) Position the top cover onto the instrument panel.
(2) Install and tighten the screws around the perimeter of the top cover that secure it to the instrument panel structural support, the defroster duct, and the demister ducts. Tighten the screws to 2 N·m (20 in. lbs.).
(3) Reinstall the instrument panel into the vehicle. (Refer to 23 - BODY/INSTRUMENT PANEL - INSTALLATION).
(4) Reinstall the passenger airbag into the instrument panel. (Refer to 8 - ELECTRICAL/RESTRAINTS/PASSENGER AIRBAG - INSTALLATION).
(5) Reinstall the cluster bezel onto the instrument panel.(Refer to 23 - BODY/INSTRUMENT PANEL/ CLUSTER BEZEL - INSTALLATION).
(6) Reconnect the battery negative cable.

STEERING COLUMN OPENING COVER

REMOVAL

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(1) Disconnect and isolate the battery negative cable.
(2) Remove the three screws that secure the lower edge of the steering column opening cover to the lower instrument panel reinforcement (Fig. 9).
(3) Using a trim stick or another suitable wide flat-bladed tool, gently pry the upper edge of the

STEERING COLUMN OPENING COVER (Continued)

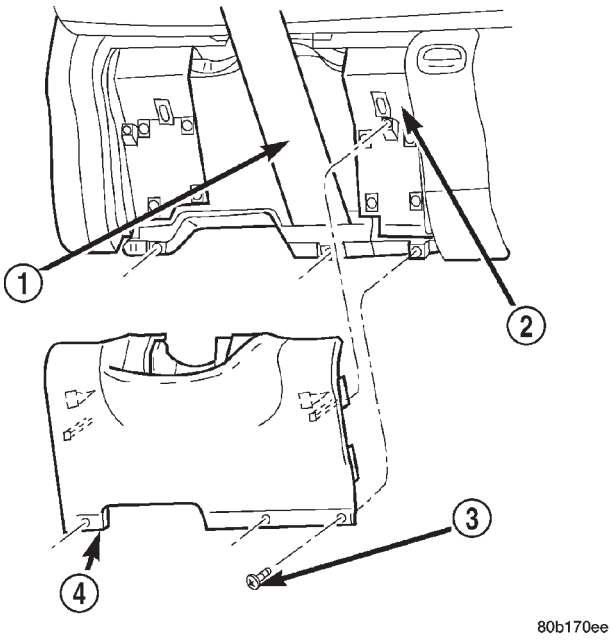

Fig. 9 Steering Column Opening Cover Remove/ Install

1 - STEERING COLUMN
2 - INSTRUMENT PANEL
3 - SCREW
4 - STEERING COLUMN OPENING COVER

steering column opening cover just below the cluster bezel on each side of the steering column away from the instrument panel far enough to disengage the snap clip retainers from their receptacles in the instrument panel.

(4) Remove the steering column opening cover from the instrument panel.

INSTALLATION

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(1) Position the steering column opening cover to the instrument panel (Fig. 9).

(2) Align the snap clip retainers on the steering column opening cover with their receptacles in the instrument panel.

(3) Press firmly and evenly on the steering column opening cover over the snap clip locations until each of the snap clips is fully engaged in its receptacle.

(4) Install and tighten the three screws that secure the lower edge of the steering column opening cover to the lower instrument panel reinforcement. Tighten the screws to 2.2 N·m (20 in. lbs.).

(5) Reconnect the battery negative cable.

STORAGE BIN

REMOVAL

Vehicles equipped with an automatic transmission have a lighted fold-down cup holder installed on the instrument panel just inboard of the glove box. Vehicles equipped with a manual transmission have a lighted storage bin installed on the instrument panel in place of the fold-down cup holder.

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(1) Disconnect and isolate the battery negative cable.

(2) Remove the cluster bezel from the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/ CLUSTER BEZEL - REMOVAL).

(3) Remove the two screws that secure the top of the storage bin to the instrument panel (Fig. 10).

(4) Lower the top of the storage bin away from the instrument panel far enough to access the illumination lamp and hood unit.

(5) Disengage the illumination lamp and hood retainer clip from the back of the instrument panel storage bin unit.

(6) Remove the storage bin unit from the instrument panel.

INSTALLATION

Vehicles equipped with an automatic transmission have a lighted fold-down cup holder installed on the

STORAGE BIN (Continued)

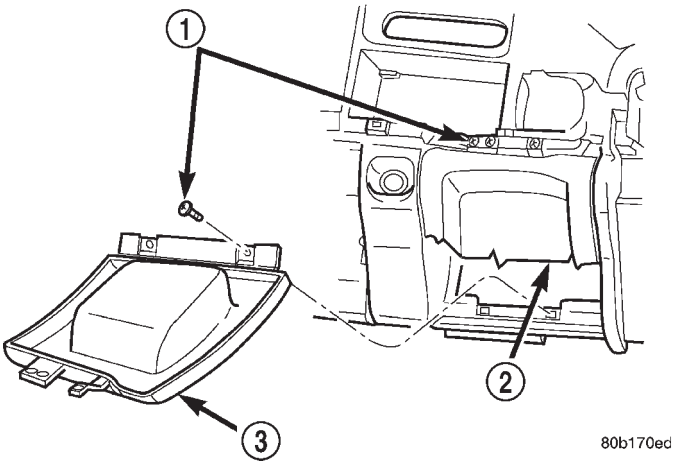

Fig. 10 Instrument Panel Storage Bin Remove/Install

1 - SCREWS
2 - STORAGE BIN (RAISED)
3 - STORAGE BIN (LOWERED)

instrument panel just inboard of the glove box. Vehicles equipped with a manual transmission have a lighted storage bin installed on the instrument panel in place of the fold-down cup holder.

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(1) Position the storage bin unit onto the instrument panel (Fig. 10).

(2) Engage the illumination lamp and hood retainer clip to the back of the instrument panel storage bin unit.

(3) Raise and position the top of the storage bin to the instrument panel.

(4) Install and tighten the two screws that secure the top of the storage bin unit to the instrument panel. Tighten the screws to 2.2 N·m (20 in. lbs.).

(5) Reinstall the cluster bezel onto the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/CLUSTER BEZEL - INSTALLATION).

(6) Reconnect the battery negative cable.

INSTRUMENT PANEL ASSEMBLY

REMOVAL

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NOTE: Before starting this procedure, be certain to turn the steering wheel until the front wheels are in the straight-ahead position.

(1) Disconnect and isolate the battery negative cable.

(2) Remove the Airbag Control Module (ACM) and bracket from the floor panel transmission tunnel. (Refer to 8 - ELECTRICAL/RESTRAINTS/AIRBAG CONTROL MODULE - REMOVAL).

(3) Remove the trim from the left and right cowl side inner panels. (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - REMOVAL).

(4) Remove the steering column opening cover from the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/STEERING COLUMN OPENING COVER - REMOVAL).

(5) Remove the two screws that secure the inside hood latch release handle to the instrument panel lower reinforcement and lower the release handle to the floor.

(6) Disconnect the clockspring pigtail wire connector from the instrument panel wire harness connector located on the instrument panel lower reinforcement.

(7) If the vehicle is so equipped, disconnect the overdrive lockout switch pigtail wire connector from the instrument panel wire harness connector near the instrument panel lower reinforcement.

(8) Remove the steering column from the vehicle, but do not remove the driver airbag, the steering wheel, or the switches from the column. Be certain that the steering wheel is locked and secured from rotation to prevent the loss of clockspring centering. (Refer to 19 - STEERING/COLUMN - REMOVAL).

(9) From under the driver side of the instrument panel, perform the following:

(a) Disengage the park brake release handle linkage rod from the park brake mechanism on the

INSTRUMENT PANEL ASSEMBLY (Continued)

left cowl side inner panel. (Refer to 5 - BRAKES/ PARKING BRAKE/RELEASE - REMOVAL).

(b) Disconnect the instrument panel wire harness connector from the park brake switch on the park brake mechanism.

(c) Disconnect the three connectors (one from the body wire harness, and two from the headlamp and dash wire harness) from the three connector receptacles located closest to the dash panel on the back of the Junction Block (JB).

(d) Remove the screw from the center of the headlamp and dash wire harness to instrument panel wire harness bulkhead connector and disconnect the connector.

(e) Disconnect the instrument panel wire harness to door wire harness connector located directly below the instrument panel wire harness to headlamp and dash wire harness bulkhead connector.

(f) If the vehicle is equipped with the Infinity sound system option, disconnect the Infinity wire harness connector from the instrument panel wire harness connector that is secured to the outboard side of the instrument panel wire harness to headlamp and dash wire harness bulkhead connector.

(g) Disconnect the instrument panel wire harness connector from the stop lamp switch.

(h) Disconnect the heater-A/C housing vacuum harness connector from the heater-A/C control vacuum harness connector located near the left end of the heater-A/C housing.

(10) From under the passenger side of the instrument panel, disconnect the two halves of the radio antenna coaxial cable connector.

(11) Loosen the right and left instrument panel cowl side roll-down bracket screws about 13 mm (0.50 inch) (Fig. 11).

(12) Remove the five screws that secure the top of the instrument panel to the top of the dash panel, removing the center screw last.

(13) Roll down the instrument panel and install a temporary hook in the center hole on top of the instrument panel. Secure the other end of the hook to the center hole in the top of the dash panel. The hook should support the instrument panel in its rolled down position about 46 cm (18 inches) from the dash panel.

(14) With the instrument panel supported in the roll-down position, disconnect the instrument panel

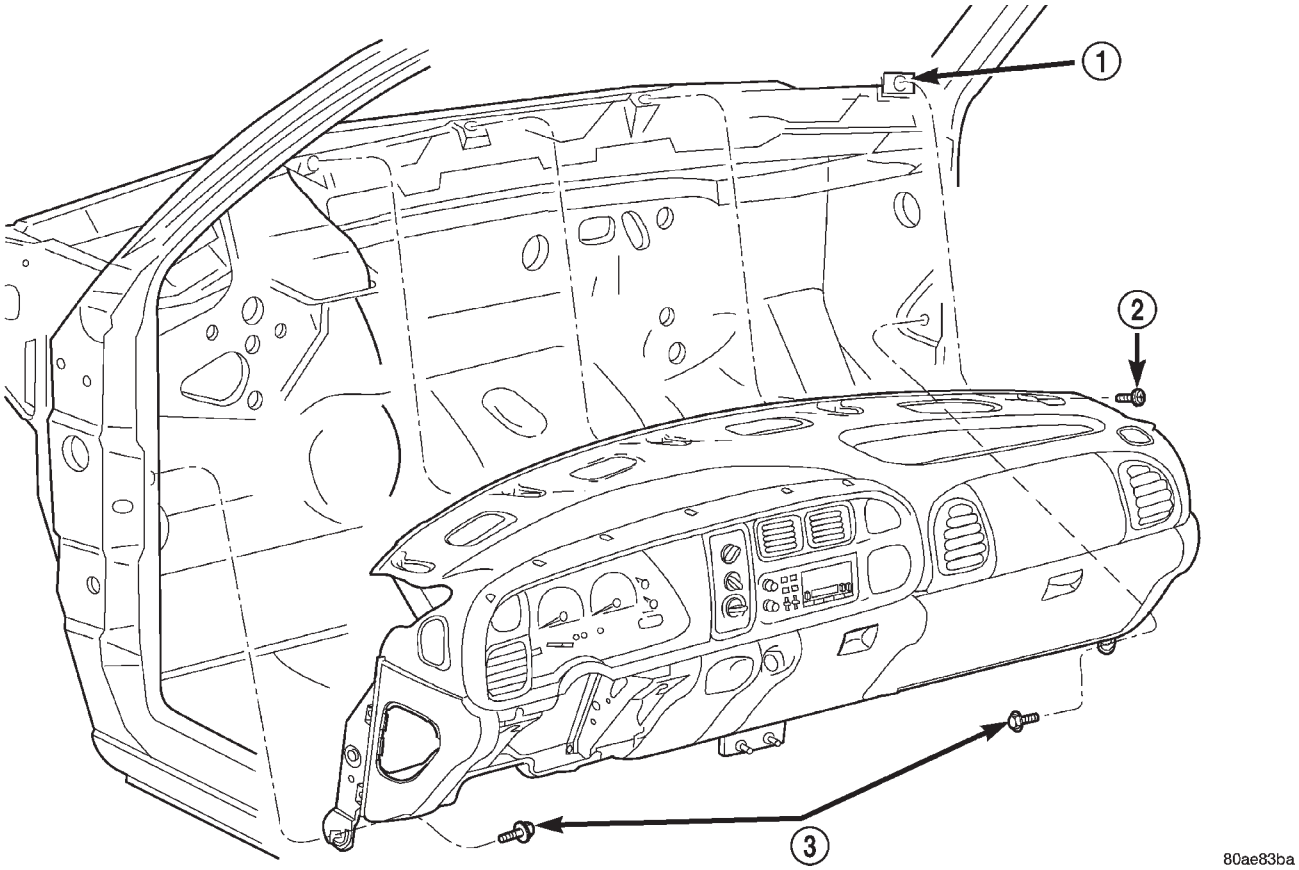

Fig. 11 Instrument Panel Assembly Remove/Install

1 - PLASTIC NUT
2 - SCREWS
3 - SCREWS

INSTRUMENT PANEL ASSEMBLY (Continued)

wire harness connectors from the heater-A/C housing wire harness connectors.

(15) With the aid of an assistant, remove the temporary hook and lift the instrument panel assembly off of the roll-down bracket screws and remove it from the vehicle.

INSTALLATION

WARNING: ON VEHICLES EQUIPPED WITH AIRBAGS, DISABLE THE AIRBAG SYSTEM BEFORE ATTEMPTING ANY STEERING WHEEL, STEERING COLUMN, SEAT BELT TENSIONER, OR INSTRUMENT PANEL COMPONENT DIAGNOSIS OR SERVICE. DISCONNECT AND ISOLATE THE BATTERY NEGATIVE (GROUND) CABLE, THEN WAIT TWO MINUTES FOR THE AIRBAG SYSTEM CAPACITOR TO DISCHARGE BEFORE PERFORMING FURTHER DIAGNOSIS OR SERVICE. THIS IS THE ONLY SURE WAY TO DISABLE THE AIRBAG SYSTEM. FAILURE TO TAKE THE PROPER PRECAUTIONS COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY.

(1) With the aid of an assistant, load the instrument panel assembly onto the roll-down bracket screws on the cowl side inner panels in the vehicle (Fig. 11). Install a temporary hook in the center hole on top of the instrument panel. Secure the other end of the hook to the center hole in the top of the dash panel. The hook should support the instrument panel in its rolled down position about 46 cm (18 inches) from the dash panel.

(2) With the instrument panel supported in the roll-down position, reconnect the instrument panel wire harness connectors to the heater-A/C housing wire harness connectors.

(3) Remove the temporary hook from the instrument panel and roll the instrument panel up to its installed position against the dash panel.

(4) Install and tighten the five screws that secure the top of the instrument panel to the top of the dash panel. Tighten the screws to 3.2 N·m (28 in. lbs.).

(5) Tighten the right and left instrument panel cowl side roll-down bracket screws. Tighten the screws to 11.9 N·m (105 in. lbs.).

(6) From under the passenger side of the instrument panel, reconnect the two halves of the radio antenna coaxial cable connector.

(7) From under the driver side of the instrument panel, perform the following:

(a) Engage the park brake release handle linkage rod with the park brake mechanism on the left cowl side inner panel. (Refer to 5 - BRAKES/PARKING BRAKE/RELEASE - INSTALLATION).

(b) Reconnect the instrument panel wire harness connector to the park brake switch on the park brake mechanism.

(c) Reconnect the three connectors (one from the body wire harness, and two from the headlamp and dash wire harness) to the three connector receptacles located closest to the dash panel on the back of the Junction Block (JB).

(d) Reconnect the headlamp and dash wire harness to instrument panel wire harness bulkhead connector and tighten the screw in the center of the connector. Tighten the screw to 3.5 N·m (31 in. lbs.).

(e) Reconnect the instrument panel wire harness to door wire harness connector located directly below the instrument panel wire harness to headlamp and dash wire harness bulkhead connector.

(f) If the vehicle is equipped with the Infinity sound system option, reconnect the Infinity wire harness connector to the instrument panel wire harness connector that is secured to the outboard side of the instrument panel wire harness to headlamp and dash wire harness bulkhead connector.

(g) Reconnect the instrument panel wire harness connector to the stop lamp switch.

(h) Reconnect the heater-A/C housing vacuum harness connector to the heater-A/C control vacuum harness connector located near the left end of the heater-A/C housing.

(8) Reinstall the steering column into the vehicle. Be certain that the steering wheel was locked and secured from rotation to prevent the loss of clockspring centering. (Refer to 19 - STEERING/COLUMN - INSTALLATION).

(9) If the vehicle is so equipped, reconnect the overdrive lockout switch pigtail wire connector to the instrument panel wire harness connector near the instrument panel lower reinforcement.

(10) Reconnect the clockspring pigtail wire connector to the instrument panel wire harness connector at the instrument panel lower reinforcement.

(11) Position the inside hood latch release handle to the instrument panel lower reinforcement.

(12) Install and tighten the two screws that secure the inside hood latch release handle to the instrument panel lower reinforcement. Tighten the screws to 2.8 N·m (25 in. lbs.).

(13) Reinstall the steering column opening cover onto the instrument panel. (Refer to 23 - BODY/INSTRUMENT PANEL/STEERING COLUMN OPENING COVER - INSTALLATION).

(14) Reinstall the trim onto the left and right cowl side inner panels. (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - INSTALLATION).

(15) Reinstall the Airbag Control Module (ACM) and bracket onto the floor panel transmission tunnel. (Refer to 8 - ELECTRICAL/RESTRAINTS/AIRBAG CONTROL MODULE - INSTALLATION).

(16) Reconnect the battery negative cable.

INTERIOR

TABLE OF CONTENTS

INTERIOR

CAUTION

CAUTION: Do not attempt to remove interior trim panels/moldings without first removing the necessary adjacent panels. To avoid damaging the panels, ensure that all the screws and clips are removed before attempting to remove an interior trim panel/molding. Trim panels are somewhat flexible but can be damaged if handled improperly.

A-PILLAR GRAB HANDLE

REMOVAL

(1) Using a small flat blade screw driver, pry trim plugs from A-pillar grab handle.
(2) Remove screws attaching grab handle to A-pillar (Fig. 1).
(3) Separate A-pillar grab handle from vehicle.

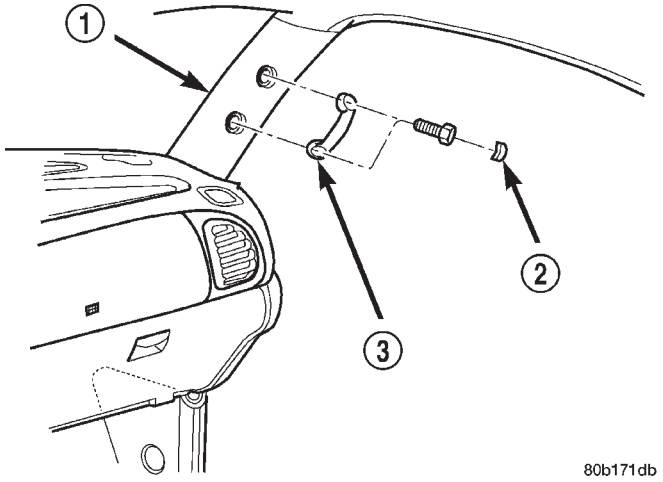

Fig. 1 A-pillar Grab Handle (4X4)

1 - A-PILLAR TRIM
2 - TRIM PLUG
3 - GRAB HANDLE

INSTALLATION

(1) Position grab handle on A-pillar.
(2) Install screws attaching grab handle to A-pillar (Fig. 1) .
(3) Install trim plugs in A-pillar grab handle.

A-PILLAR TRIM

REMOVAL

(1) Remove A-pillar grab handle, if equipped (Refer to 23 - BODY/INTERIOR/A-PILLAR GRAB HANDLE - REMOVAL).
(2) Grasp A-pillar trim at top and pull outward/downward to disengage upper spring clip (Fig. 2).
(3) Carefully pull bottom of A-pillar trim outward to disengage lower spring clip.
(4) Disengage speaker harness connector, if equipped.
(5) Separate A-pillar trim from vehicle.

INSTALLATION

(1) Position A-pillar trim in vehicle.
(2) Engage speaker harness connector, if equipped.
(3) Align spring clips and press into place.

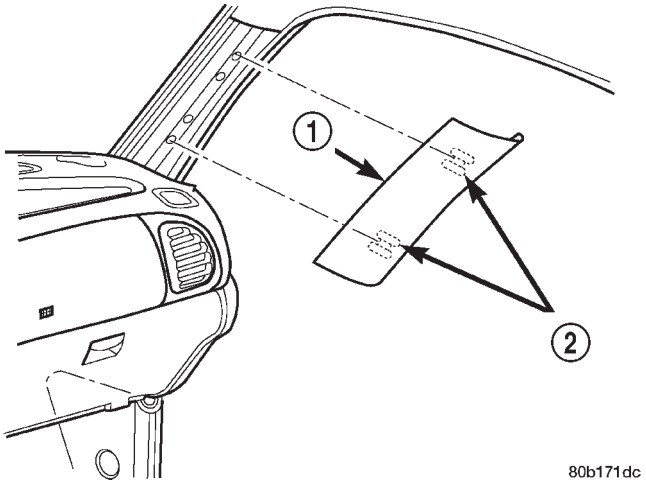

Fig. 2 A-pillar Trim

1 - A-PILLAR TRIM
2 - SPRING CLIPS

(4) Install A-pillar grab handle, if equipped (Refer to 23 - BODY/INTERIOR/A-PILLAR GRAB HANDLE - INSTALLATION).

COWL TRIM COVER

REMOVAL

(1) Remove front door sill trim cover (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - REMOVAL).
(2) Grasp center upper edge of cowl trim cover (Fig. 3) and pull outward allowing cowl trim cover to bow in the center releasing trim cover retaining tab (Fig. 4).
(3) Separate cowl trim cover from lower cowl.

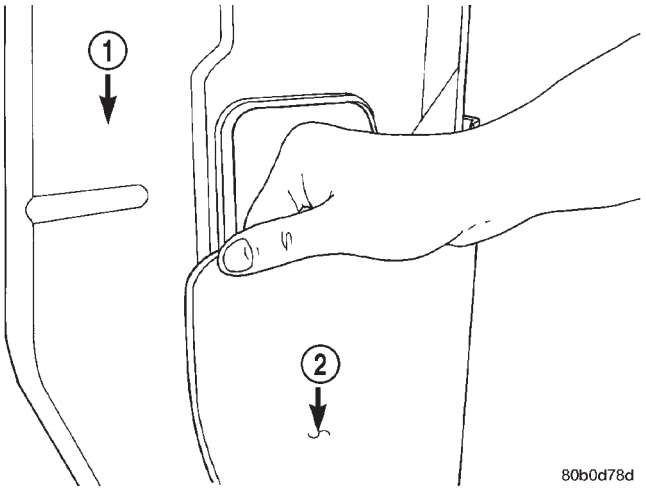

Fig. 3 Lower Cowl Trim Cover

1 - LOWER COWL
2 - LOWER COWL TRIM

COWL TRIM COVER (Continued)

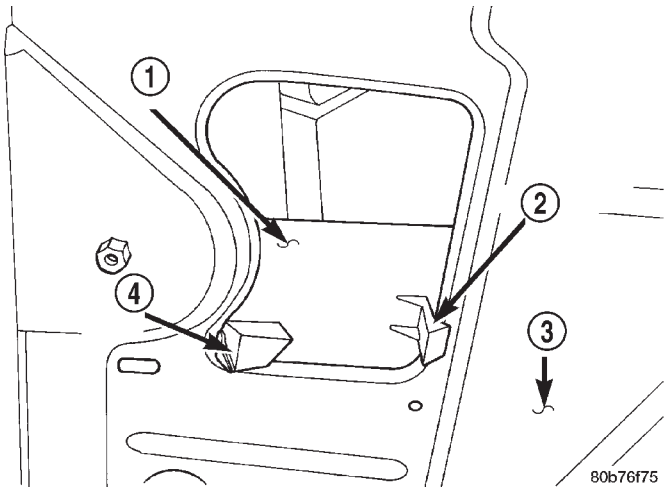

Fig. 4 Lower Cowl Trim Cover Retaining Tab

1 - LOWER COWL TRIM
2 - RETAINING TAB
3 - LOWER COWL
4 - LOCATOR TAB

INSTALLATION

(1) Position cowl trim cover on lower cowl.
(2) Press into place.
(3) Install front door sill trim cover (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - INSTALLATION).

B-PILLAR TRIM

REMOVAL

(1) Remove rear floor stowage tray, If equipped. (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - REMOVAL).
(2) Remove door sill cover (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - REMOVAL).
(3) Remove bolt attaching seat belt anchor to floor.
(4) Snap turning loop cover up and remove bolt attaching turning loop to B-pillar.
(5) Remove seat belt exit plug (Fig. 5).
(6) Disengage clips attaching B-pillar trim to upper B-pillar.
(7) Separate B-pillar trim from B-pillar.
(8) Route seat belt webbing through opening in B-pillar trim.

INSTALLATION

(1) Route seat belt webbing through opening in B-pillar trim.
(2) Position B-pillar trim at B-pillar.
(3) Starting at the top, engage clips attaching B-pillar trim to upper B-pillar.
(4) Install seat belt exit plug.

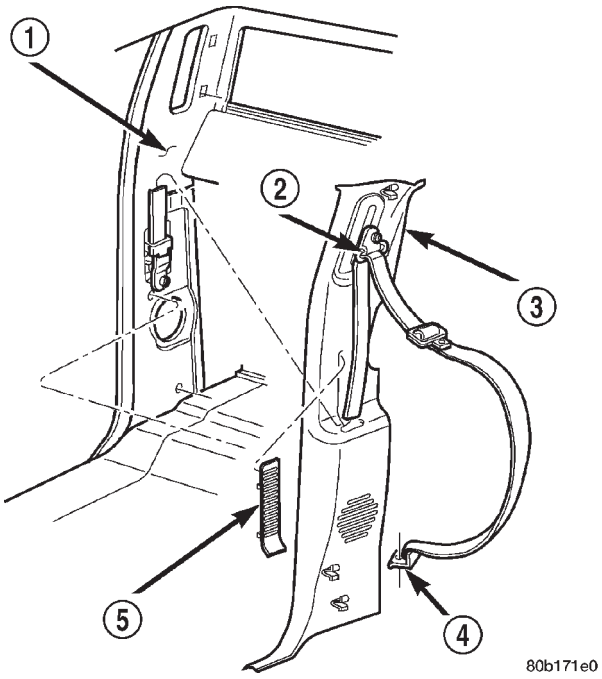

Fig. 5 B-Pillar Trim

1 - B-PILLAR
2 - TURNING LOOP
3 - B-PILLAR TRIM
4 - SEAT BELT ANCHOR
5 - EXIT PLUG

(5) Install bolt attaching turning loop to B-pillar and reposition turning loop cover.
(6) Install bolt attaching seat belt anchor to floor.
(7) Install door sill cover (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - INSTALLATION).
(8) Install rear floor stowage tray (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - INSTALLATION).

REAR CLOSURE PANEL TRIM

REMOVAL

(1) Remove B-pillar trim panels (Refer to 23 - BODY/INTERIOR/B-PILLAR TRIM - REMOVAL).
(2) Remove rear floor stowage tray, if equipped. (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - REMOVAL).
(3) Remove screws attaching bottom of rear closure panel trim to floor pan (Fig. 6).
(4) Remove screws attaching rear closure panel trim to cab back panel.
(5) Disengage clips attaching top of rear closure panel trim to cab back panel.
(6) Separate rear closure panel trim from vehicle.

REAR CLOSURE PANEL TRIM (Continued)

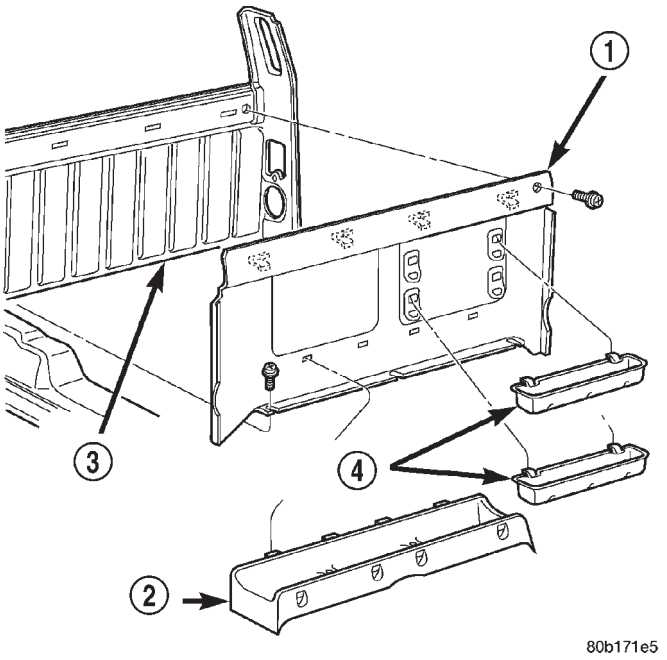

Fig. 6 Rear Closure Panel Trim

1 - REAR TRIM PANEL
2 - REAR FLOOR STORAGE TRAY
3 - CAB BACK PANEL
4 - STOWAGE BINS

INSTALLATION

(1) Position rear closure panel trim in vehicle.
(2) Align and engage clips attaching top of rear closure panel trim to cab back panel.
(3) Install screws attaching rear closure panel trim to cab back panel.
(4) Install screws attaching bottom of rear closure panel trim to floor pan (Fig. 6).
(5) Install rear floor stowage tray, if equipped. (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - INSTALLATION).
(6) Install B-pillar trim panels (Refer to 23 - BODY/INTERIOR/B-PILLAR TRIM - INSTALLATION).

REAR FLOOR STOWAGE TRAY

REMOVAL

(1) Move seat tracks to forward position.
(2) Remove screws attaching rear floor stowage tray to floor (Fig. 7).
(3) Disengage hooks on stowage tray from slots in rear closure panel trim.
(4) Separate rear floor stowage tray from vehicle.

INSTALLATION

(1) Position rear floor stowage tray in vehicle.

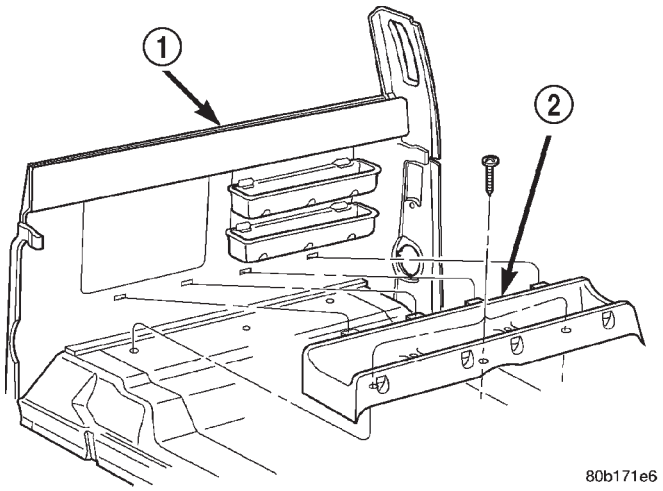

Fig. 7 Rear Floor Stowage Tray

1 - REAR CLOSURE PANEL TRIM
2 - REAR FLOOR STOWAGE TRAY

(2) Engage hooks on stowage tray into slots in rear closure panel trim.
(3) Install screws attaching rear floor stowage tray to floor.

DOOR SILL TRIM

REMOVAL

(1) Remove screws attaching door sill trim cover to door sill (Fig. 8).
(2) Separate door sill trim cover from door sill.

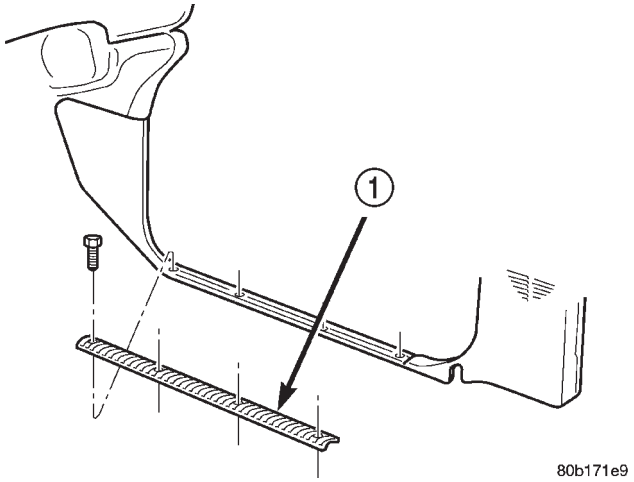

Fig. 8 Door Sill Trim Cover

1 - DOOR SILL TRIM

INSTALLATION

(1) Position door sill trim cover on door sill.
(2) install screws attaching door sill trim cover to door sill.

SHIFT BOOT - MANUAL TRANSMISSION

REMOVAL

(1) Using a trim stick C-4755 or equivalent, pry the corner of the shift boot up expose the fasteners.
(2) Remove the screws attaching the shift boot to the console.
(3) Remove the insert from the shift knob, remove nut attaching knob to the lever, and remove the shift knob.
(4) Lift floor shift boot off shifter.

INSTALLATION

(1) Install shift boot over the shift lever, position boot on console and install the fasteners attaching boot to concole.
(2) Install the shift knob, shift knob nut, and tighten to 27 N·m (20 ft.lbs) torque.
(3) Install the shift knob insert.

4WD FLOOR SHIFT BOOT

REMOVAL

(1) Remove insert from shift knob.
(2) Remove nut attaching shift knob to shift lever.
(3) Remove shift knob.
(4) Using a trim stick C-4755 or equivalent, disengage retainers attaching boot to shifter base (Fig. 9). Automatic transmission vehicle shown, manual transmission similar.
(5) Lift floor shift boot off shift lever.

INSTALLATION

(1) Place shift boot over shifter.
(2) Engage retainers attaching boot to shifter base.
(3) Position shift knob on shift lever.
(4) Install nut attaching shift knob to shift lever.
(5) Install insert on shift knob.

CENTER CONSOLE

REMOVAL

(1) Remove the transfer case shift boot, if equipped. (Refer to 23 - BODY/INTERIOR/SHIFT BOOT/TRANSFER CASE - REMOVAL).
(2) Remove the tranmission shifter boot. (Refer to 23 - BODY/INTERIOR/SHIFT BOOT - REMOVAL).
(3) Remove the screws attaching the console to mounting brackets (Fig. 10).
(4) Lift the console upward.
(5) Disengage wire harness connector, if equipped.
(6) Separate console from vehicle.

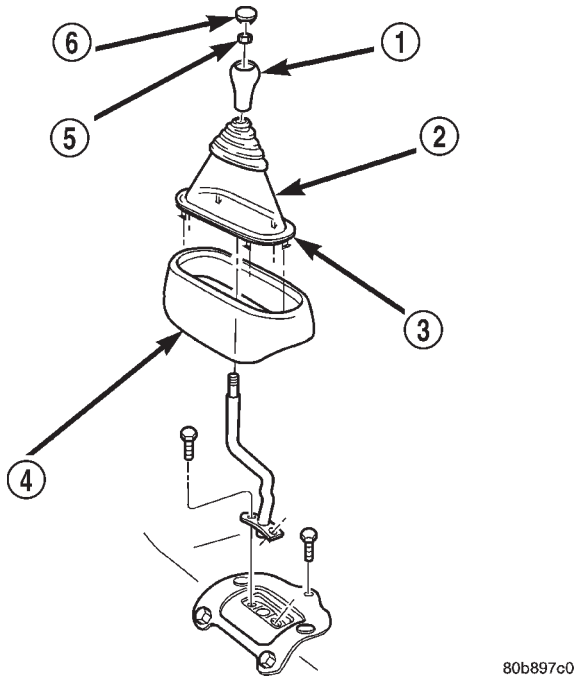

Fig. 9 4WD Transfer Case Shift Boot - Automatic Transmission

1 - KNOB
2 - BOOT
3 - RETAINER
4 - BASE
5 - NUT
6 - INSERT

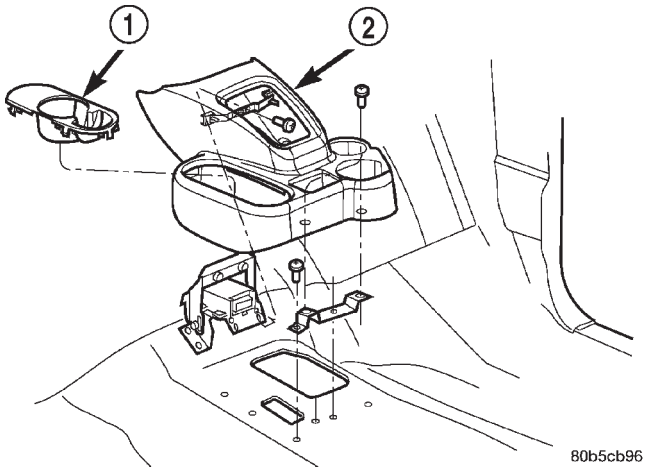

Fig. 10 Floor Console W/Cup Holder

1 - CUP HOLDER
2 - FLOOR CONSOLE

INSTALLATION

(1) Position console in vehicle.
(2) Engage wire harness connector, if equipped.
(3) Position the console on the floor.

CENTER CONSOLE (Continued)

(4) Install the screws attaching the console to mounting brackets.

(5) Install the transmission shifter boot, (Refer to 23 - BODY/INTERIOR/SHIFT BOOT - INSTALLATION).

(6) Install the transfer case shifter boot, if equipped. (Refer to 23 - BODY/INTERIOR/SHIFT BOOT - INSTALLATION).

(7) Install cup holder in console, if equipped.

CARPETS AND FLOOR MATS

REMOVAL

STANDARD CAB

(1) Remove seat (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - REMOVAL) or(Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - REMOVAL).

(2) Remove door sill covers (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - REMOVAL).

(3) Remove cowl trim covers (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - REMOVAL).

(4) Remove center console, if equipped.(Refer to 23 - BODY/INTERIOR/CENTER CONSOLE - REMOVAL)

(5) If not equipped with a center console remove the transfer case shifter boot (Refer to 23 - BODY/INTERIOR/SHIFT BOOT/TRANSFER CASE - REMOVAL).

(6) Remove rear stowage tray (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - REMOVAL).

(7) Remove rear closure panel trim (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - REMOVAL).

(8) Fold carpet or mat toward center of cab.

(9) Remove carpet or mat through door opening (Fig. 11).

QUAD/CLUB CABS

(1) Remove front and rear seats. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - REMOVAL) or(Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - REMOVAL) and (Refer to 23 - BODY/SEATS/REAR SEAT - REMOVAL)

(2) Remove door sill covers (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - REMOVAL).

(3) Remove center console, if equipped.(Refer to 23 - BODY/INTERIOR/CENTER CONSOLE - REMOVAL)

(4) If not equipped with a center console remove the transfer case shifter boot (Refer to 23 - BODY/INTERIOR/SHIFT BOOT/TRANSFER CASE - REMOVAL).

(5) Remove emergency jack tool kit.

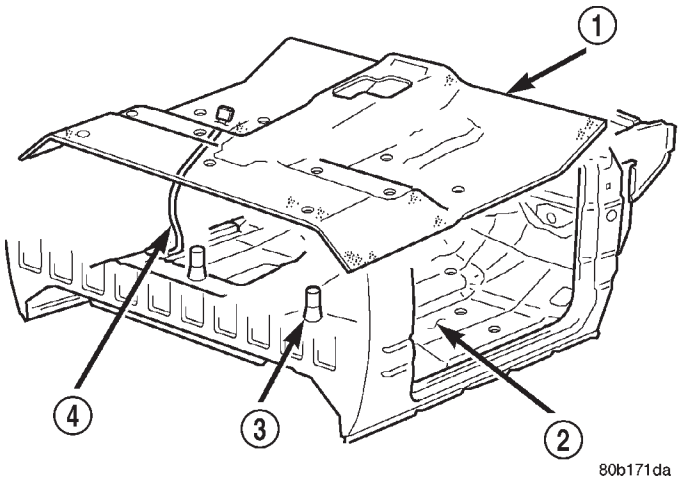

Fig. 11 Floor Carpet or Mat

1 - CARPET OR MAT
2 - FLOOR PAN
3 - REAR/INNER SEAT MOUNT
4 - POWER SEAT HARNESS

(6) Remove rear seat belt buckles. (Refer to 8 - ELECTRICAL/RESTRAINTS/SEAT BELT BUCKLE - REMOVAL)

(7) Remove rear closure panel trim (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - REMOVAL).

(8) Remove C-pillar trim panels. (Refer to 23 - BODY/INTERIOR/C-PILLAR TRIM - REMOVAL)

(9) Remove the quarter trim panels. (Refer to 23 - BODY/INTERIOR/QUARTER TRIM PANEL - REMOVAL)

(10) Fold carpet or mat toward center of cab.

(11) Remove carpet or mat through door opening.

INSTALLATION

STANDARD CAB

(1) Position carpet or mat in vehicle and align all holes (Fig. 11).

(2) Install rear closure panel trim (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - INSTALLATION).

(3) Install rear stowage tray (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - INSTALLATION).

(4) Install the transfer case shifter boot if not equipped with a center console. (Refer to 23 - BODY/INTERIOR/SHIFT BOOT/TRANSFER CASE - INSTALLATION)

(5) Install the center console, if equipped. (Refer to 23 - BODY/INTERIOR/CENTER CONSOLE - INSTALLATION)

(6) Install cowl trim covers (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - INSTALLATION).

CARPETS AND FLOOR MATS (Continued)

(7) Install door sill covers (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - INSTALLATION).

(8) Install seat, (Refer to 23 - BODY/SEATS/SEAT - INSTALLATION) or (Refer to 23 - BODY/SEATS/SEAT/SPLIT BENCH - INSTALLATION).

QUAD/CLUB CABS

(1) Position carpet or mat in vehicle.

(2) Install quarter trim panels. (Refer to 23 - BODY/INTERIOR/QUARTER TRIM PANEL - INSTALLATION)

(3) Install rear seat belt buckles.

(4) Install the C-pillar trim panels, if equipped. (Refer to 23 - BODY/INTERIOR/C-PILLAR TRIM - INSTALLATION)

(5) Install rear closure panel trim (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - INSTALLATION).

(6) Install the rear seat belt buckles. (Refer to 8 - ELECTRICAL/RESTRAINTS/SEAT BELT BUCKLE - INSTALLATION)

(7) Install emergency jack tool kit.

(8) Install the transfer case shifter boot if not equipped with a center console. (Refer to 23 - BODY/INTERIOR/SHIFT BOOT/TRANSFER CASE - INSTALLATION)

(9) Install the center console, if equipped. (Refer to 23 - BODY/INTERIOR/CENTER CONSOLE - INSTALLATION)

(10) Install floor shift boot, if equipped.

(11) Install cowl trim covers (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - INSTALLATION).

(12) Install door sill covers (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - INSTALLATION).

(13) Install front and rear seats. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - INSTALLATION) or (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - INSTALLATION) and (Refer to 23 - BODY/SEATS/REAR SEAT - INSTALLATION)

ASSIST HANDLE

REMOVAL

(1) Disengage tabs attaching assist handle end covers to assist handle.

(2) Remove screws attaching overhead assist handle to roof rail (Fig. 12).

(3) Separate overhead assist handle from vehicle.

INSTALLATION

(1) Position assist handle on vehicle.

(2) Install screws attaching overhead assist handle to roof rail (Fig. 12).

(3) Install tabs attaching assist handle end covers to assist handle.

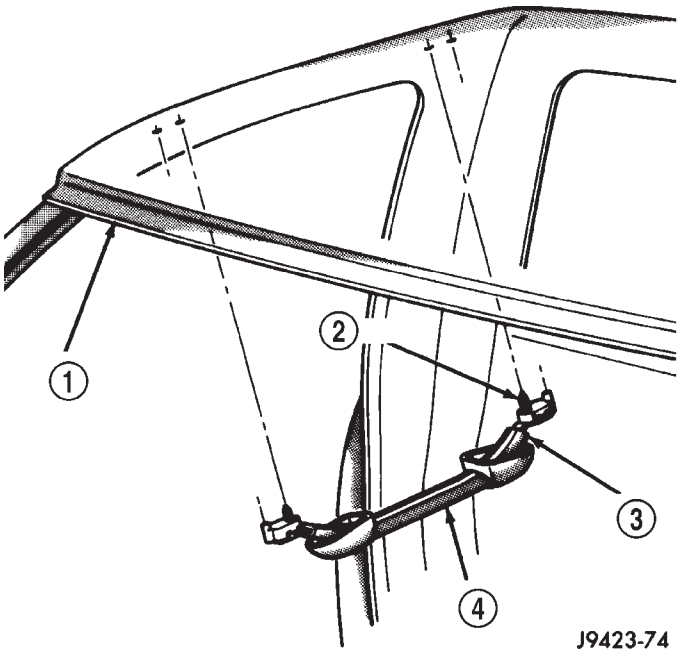

Fig. 12 Overhead Assist Handle

1 - CAB ASSEMBLY
2 - SCREW
3 - ASSIST HANDLE
4 - TRIM COVER

COAT HOOK

REMOVAL

(1) Insert a small flat blade into the tip of the hook.

(2) Carefully pry outward to separate the coat hook from coat hook base.

(3) Pull coat hook out of roof panel (Fig. 13). Extended cab shown, standard cab similar.

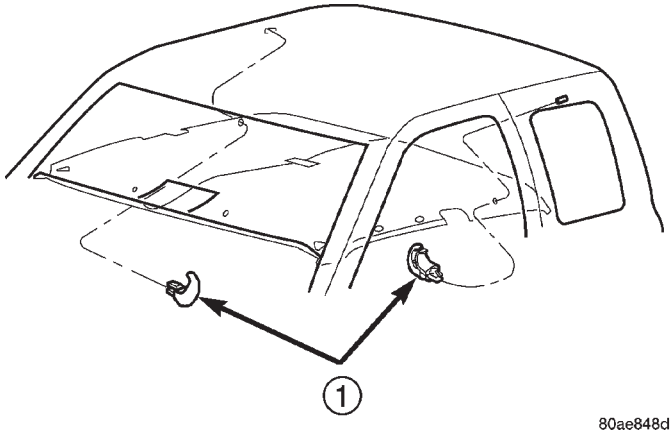

Fig. 13 Coat Hook—Club/Quad Cab

1 - COAT HOOK

COAT HOOK (Continued)

INSTALLATION

(1) Position coat hook in roof panel.

(2) Push the coat hook cover inward and secure the coat hook to roof panel.

HEADLINER

REMOVAL

(1) Remove sun visors and visor hooks.(Refer to 23 - BODY/INTERIOR/SUN VISOR - REMOVAL).

(2) Remove overhead assist handle.(Refer to 23 - BODY/INTERIOR/ASSIST HANDLE - REMOVAL).

(3) Remove coat hook(s).(Refer to 23 - BODY/INTERIOR/COAT HOOK - REMOVAL)

(4) Remove overhead console, if equipped. (Refer to 8 - ELECTRICAL/OVERHEAD CONSOLE - REMOVAL).

(5) Remove A-pillar trim.(Refer to 23 - BODY/INTERIOR/A-PILLAR TRIM - REMOVAL).

(6) Remove B-pillar trim panels. (Refer to 23 - BODY/INTERIOR/B-PILLAR TRIM - REMOVAL).

(7) Remove the C-pillar trim panels, if equipped. (Refer to 23 - BODY/INTERIOR/C-PILLAR TRIM - REMOVAL)

(8) Remove the quarter trim panels, if equipped. (Refer to 23 - BODY/INTERIOR/QUARTER TRIM PANEL - REMOVAL)

(9) Remove dome lamp. (Refer to 8 - ELECTRICAL/LAMPS/LIGHTING - INTERIOR/DOME LAMP - REMOVAL).

(10) If equipped, disengage push-in fasteners attaching headliner to roof panel (Fig. 15). Extended cab shown, standard cab similar.

(11) Separate headliner from roof panel (Fig. 14).

(12) Extract headliner through door opening.

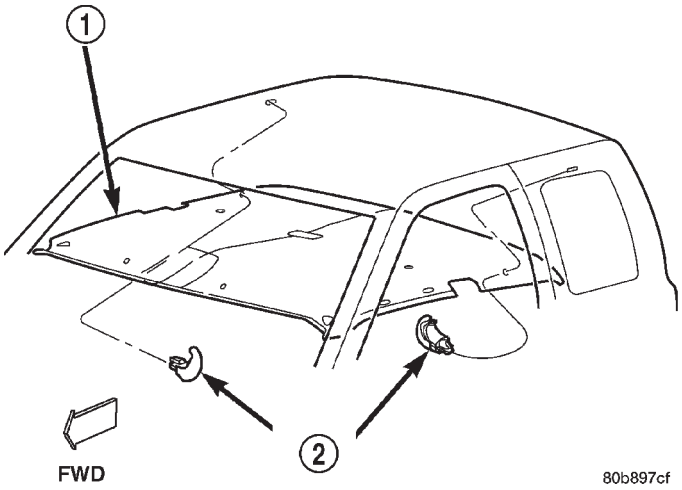

Fig. 14 Headliner

1 - HEADLINER
2 - COAT HOOK

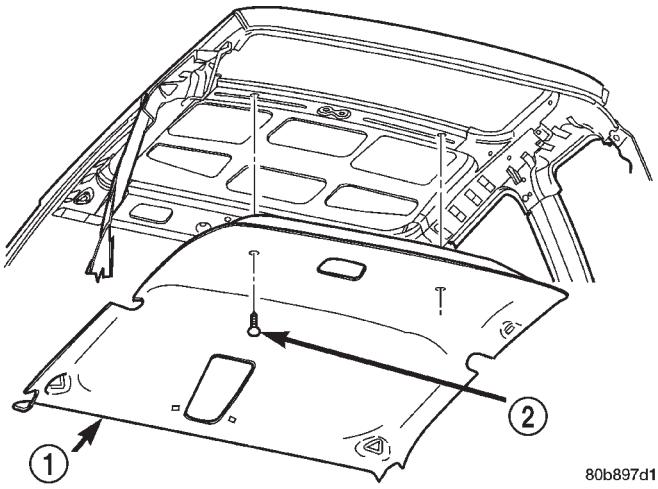

Fig. 15 Headliner Push-In Fasteners

1 - HEADLINER
2 - PUSH—IN FASTENER

INSTALLATION

(1) Position headliner on roof panel (Fig. 14). Extended cab shown, standard cab similar.

(2) Install passenger side sun visor hook. (Refer to 23 - BODY/INTERIOR/SUN VISOR - INSTALLATION).

(3) Install driver's side coat hook. (Refer to 23 - BODY/INTERIOR/COAT HOOK - INSTALLATION).

(4) Install driver side sun visor hook.

(5) Install dome lamp. (Refer to 8 - ELECTRICAL/LAMPS/LIGHTING - INTERIOR/DOME LAMP - INSTALLATION).

(6) Install the C-pillar trim panels, if equipped. (Refer to 23 - BODY/INTERIOR/C-PILLAR TRIM - INSTALLATION)

(7) Install the quarter trim panels, if equipped. (Refer to 23 - BODY/INTERIOR/QUARTER TRIM PANEL - INSTALLATION)

(8) Install B-pillar trim panels. (Refer to 23 - BODY/INTERIOR/B-PILLAR TRIM - INSTALLATION).

(9) Install A-pillar trim. (Refer to 23 - BODY/INTERIOR/A-PILLAR TRIM - INSTALLATION).

(10) Install overhead console, if equipped. (Refer to 8 - ELECTRICAL/OVERHEAD CONSOLE - INSTALLATION).

(11) Install overhead assist handle. (Refer to 23 - BODY/INTERIOR/ASSIST HANDLE - INSTALLATION).

(12) Install sun visors.

BODY VENT

REMOVAL

(1) Open door.
(2) Pull outward at top of vent to disengage clips attaching vent to door jamb (Fig. 16).
(3) Separate vent from door jamb.

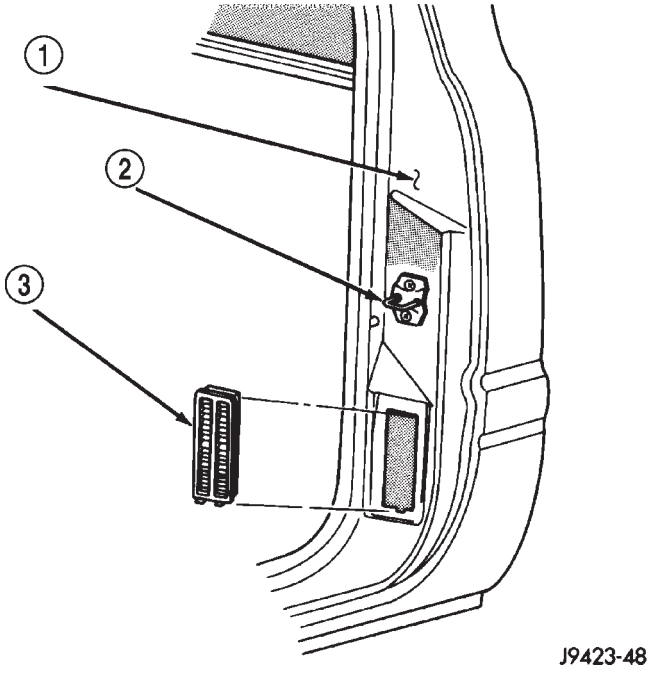

Fig. 16 Body Vent

1 - B—PILLAR
2 - DOOR STRIKER
3 - BODY VENT

INSTALLATION

(1) Position vent from in jamb.
(2) Press vent inward to engage clips.

REAR VIEW MIRROR

REMOVAL

(1) If equipped, disconnect mirror harness wire connector (Fig. 17).
(2) Loosen the mirror base setscrew (Fig. 18).
(3) Slide the mirror base upward and off the bracket.

INSTALLATION

INSTALLATION

(1) Position the mirror base at the bracket and slide it downward onto the support bracket.
(2) Tighten the setscrew 1 N·m (15 in. lbs.) torque.

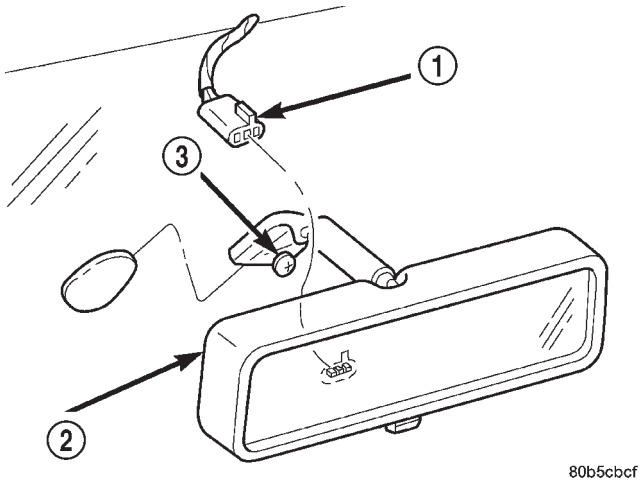

Fig. 17 Rearview Mirror Connector

1 - CONNECTOR
2 - MIRROR
3 - SCREW

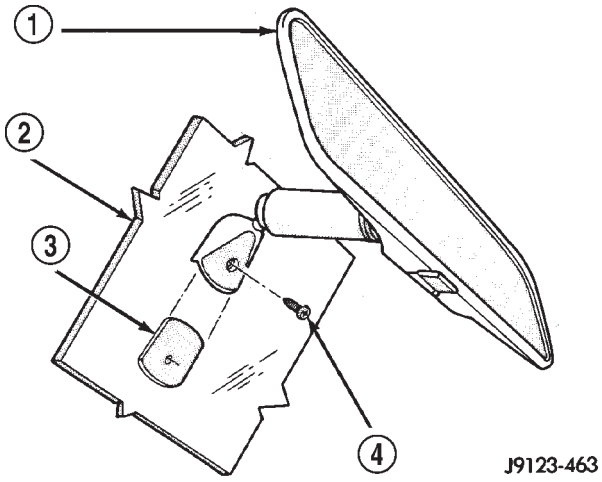

Fig. 18 Rearview Mirror

1 - REARVIEW MIRROR
2 - WINDSHIELD GLASS
3 - SUPPORT BRACKET
4 - SCREW

(3) If equipped, connect mirror harness wire connector.

INSTALLATION - REARVIEW MIRROR SUPPORT BRACKET

(1) Mark the position for the mirror bracket on the outside of the windshield glass with a wax pencil.
(2) Clean the bracket contact area on the glass. Use a mild powdered cleanser on a cloth saturated with isopropyl (rubbing) alcohol. Finally, clean the glass with a paper towel dampened with alcohol.

(3) Sand the surface on the support bracket with fine grit-sandpaper. Wipe the bracket surface clean with a paper towel.

(4) Apply accelerator to the surface on the bracket according to the following instructions:

(a) Crush the vial to saturate the felt applicator.

(b) Remove the paper sleeve.

(c) Apply accelerator to the contact surface on the bracket.

(d) Allow the accelerator to dry for five minutes.

(e) Do not touch the bracket contact surface after the accelerator has been applied.

(5) Apply adhesive accelerator to the bracket contact surface on the windshield glass. Allow the accelerator to dry for one minute. Do not touch the glass contact surface after the accelerator has been applied.

(6) Install the bracket according to the following instructions:

(a) Apply one drop of adhesive at the center of the bracket contact-surface on the windshield glass.

(b) Apply an even coat of adhesive to the contact surface on the bracket.

(c) Align the bracket with the marked position on the windshield glass.

(d) Press and hold the bracket in place for at least one minute.

NOTE: Verify that the mirror support bracket is correctly aligned, because the adhesive will cure rapidly.

(7) Allow the adhesive to cure for 8-10 minutes. Remove any excess adhesive with an alcohol-dampened cloth.

(8) Allow the adhesive to cure for an additional 8-10 minutes before installing the mirror.

SUN VISOR

REMOVAL

(1) Remove screws attaching sunvisor to roof (Fig. 19).

(2) If equipped, disengage lighted vanity mirror connector.

(3) Separate sunvisor from roof.

(4) Remove screw attaching sun visor hook to roof.

(5) Separate sunvisor hook from roof.

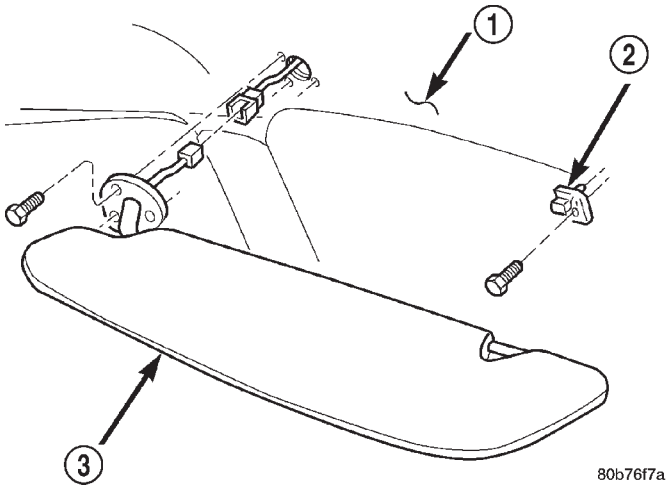

Fig. 19 Sunvisor

1 - BODY
2 - CLIP
3 - SUNVISOR

INSTALLATION

(1) Position sunvisor hook on roof.

(2) Install screw attaching sunvisor hook to roof.

(3) Position sunvisor on roof.

(4) If equipped, engage lighted vanity mirror connector.

(5) Install screws attaching sunvisor to roof (Fig. 19).

QUARTER TRIM PANEL

REMOVAL

(1) Remove rear seat. (Refer to 23 - BODY/SEATS/REAR SEAT - REMOVAL)

(2) Remove door sill cover as necessary to clear quarter trim.

(3) Remove lower seat belt anchor bolt (Fig. 20).

(4) Remove seat belt tuning loop anchor bolt.

(5) Disengage clips attaching quarter trim panel from quarter panel.

(6) Route seat belt webbing through opening in quarter trim panel and remove panel from vehicle.

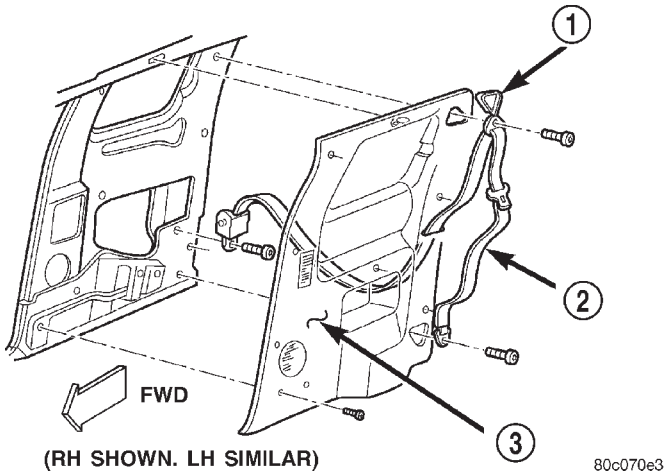

Fig. 20 Quarter Trim Panel — Club Cab

1 - TURNING LOOP COVER
2 - BELT ASSEMBLY
3 - TRIM PANEL

INSTALLATION

(1) Position trim panel in vehicle and route seat belt webbing through opening in quarter trim panel.

(2) Open quarter vent window.

(3) Position trim panel on quarter panel and engage clips on upper portion of panel.

(4) Engage clips attaching lower portion of quarter trim panel to quarter panel.

(5) Install lower seat belt anchor bolt.

(6) Install door sill cover as necessary.

(7) Install rear seat. (Refer to 23 - BODY/SEATS/REAR SEAT - INSTALLATION)

C-PILLAR TRIM

REMOVAL

(1) Remove rear floor stowage tray. (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - REMOVAL)

(2) Remove door sill cover as necessary to clear C-pillar trim.

(3) Remove bolt attaching seat belt anchor to floor.

(4) Unsnap turning loop, push cover up and remove bolt attaching turning loop to C-pillar.

(5) Remove seat belt exit plug.

(6) Disengage clips attaching C-pillar trim to upper C-pillar.

(7) Separate C-pillar trim from C-pillar.

(8) Route seat belt webbing through opening in C-pillar trim.

INSTALLATION

(1) Route seat belt webbing through opening in C-pillar trim.

(2) Position C-pillar trim at C-pillar.

(3) Starting at the top, engage clips attaching C-pillar trim to upper C-pillar.

(4) Install seat belt exit plug.

(5) Install bolt attaching turning loop to C-pillar and position turning loop cover. Snap turning loop cover into place.

(6) Install bolt attaching seat belt anchor to floor.

(7) Install door sill cover.

(8) Install rear floor stowage tray. (Refer to 23 - BODY/INTERIOR/REAR FLOOR STOWAGE TRAY - INSTALLATION)

PAINT

TABLE OF CONTENTS

PAINT

SPECIFICATIONS

2002 BR/BE PAINT COLOR CODES

EXTERIOR CODES

DAIMLERCHRYSLER CODE	EXTERIOR COLOR
XRV	Dark Garnet Red
PR4	Flame Red Clear Coat
XV3/XVL	Amber Fire Pearl Coat
XTL	Medium Bronze Pearl Coat
SG8	Forest Green Pearl Coat
VB3	Intense Blue Pearl Coat
WBT/WB7	Patriot Blue Pearl Coat
WSB/WS2	Bright Silver Metallic Clear Coat
DX8	Black Clear Coat
GW7	Bright White Clear Coat

INTERIOR CODES

DAIMLERCHRYSLER CODE	INTERIOR COLOR
C3	Mist Gray
AZ	Agate
K9	Tan Camel

PAINT CODE

DESCRIPTION

Exterior vehicle body colors are identified on the Body Code plate. The plate is located on the floor pan under the passenger seat or attached to the front face of the radiator closure panel. Refer to the Introduction section at the front of this manual for body code plate description. The paint code is also identified on the Vehicle Safety Certification Label which is located on the drivers door shut face. The color names provided in the Paint and Trim Code Description chart are the color names used on most repair product containers.

BASE COAT/CLEAR COAT FINISH

DESCRIPTION

The original equipment finish is a multi-step process that involves cleaning, electrodeposition (e-coat), base coat, and clear coat steps. Additionally, selected areas of the vehicle may be coated with an anti-chip finish.

OPERATION

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.

CAUTION: 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 surfaces. Damage to finish or color can result.

PAINT TOUCH-UP

DESCRIPTION

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.

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

OPERATION

(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 touch-up 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 touch-up paint to dry hard.

(5) On vehicles without clear coat, the touch-up color can be lightly finesse sanded (1500 grit) and polished with rubbing compound.

(6) On vehicles with clear coat, apply clear top coat to touch-up paint with the same technique as described in Step 4. Allow clear top coat to dry hard. If desired, Step 5 can be performed on clear top coat.

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

WET SANDING/BUFFING & POLISHING

DESCRIPTION

Minor acid etching, orange peel, or smudging in clear coat or single-stage finishes can be reduced with light finesse sanding, hand buffing, and polishing. **If the finish has been finesse sanded in the past, it cannot be repeated. Finesse 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.

SEATS

TABLE OF CONTENTS

SEATS

DESCRIPTION

Seat modules are made up of a seat frame, seat cushion, seat back cushion, a covering material, and the electrical components used for power operation, if equipped. Some seat systems also contain seat belt components and supplemental restraint systems.

OPERATION

Seat assemblies transport the occupants in comfort and safety. Seat assemblies also help position occupants correctly in the event of airbag deployment. Seat cushions, coverings, and electrical components are serviceable. Refer to the appropriate group in this manual.

CENTER CONSOLE LID

REMOVAL

(1) Open console lid.
(2) Using a small flat blade screwdriver, disengage locking tabs located under the console lid trim bezel.
(3) Separate bezel from lid.
(4) Move driver and passenger seat to full forward position.
(5) Using a small drift and hammer, tap out console lid hinge pin.
(6) Separate lid from console.

CENTER CONSOLE LID (Continued)

INSTALLATION

(1) Align console lid with console. Verify lid tension spring is in position.
(2) Install hinge pin.
(3) Position trim bezel on lid and snap into place.

CENTER SEAT ARMREST/ CONSOLE

REMOVAL

(1) Remove bolts on driver and passenger seat inboard seat tracks.
(2) Separate center section.

INSTALLATION

(1) Position and align center section on driver and passenger seat inboard seat tracks.
(2) Install bolts. Tighten to 19.5 N·m (14 ft. lbs.) torque.

CENTER SEAT ARMREST/ LATCH COVER

REMOVAL

(1) With the seat back fully forward, move the driver's seat to a full forward position.
(2) Place the center arm rest in a full up position.
(3) Remove the fastener securing the cover to the inertia latch.
(4) Disengage the front edge of the cover, then lower the arm rest.
(5) Remove the inertia latch cover by pulling the cover rearwards (Fig. 1).

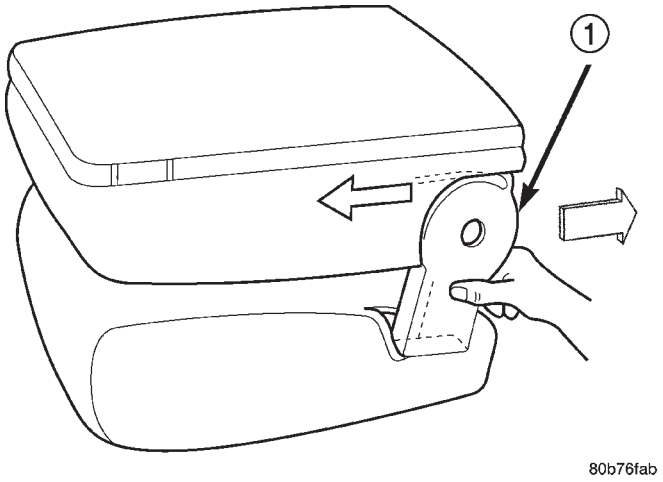

Fig. 1 Armrest Inertia Latch Cover

1 - INERTIA LATCH COVER

INSTALLATION

(1) Slide the inertia latch cover onto the latch arm.
(2) Raise the armrest, then engage the front edge of the cover.
(3) Install the lower strap into the center armrest's lower track (Fig. 2).
(4) Slide back the armrest trim to visually ensure the lower strap is properly installed.
(5) Slowly cycle the armrest to ensure the strap moves freely in the track.
(6) Install the upper strap into the center armrest's upper track (Fig. 3).
(7) Slowly cycle the armrest to ensure the strap moves freely in the track.
(8) Secure the armrest inertia latch cover and tighten the fastener to 4N·m (35 in. lbs.).

Fig. 2 Inertia Latch Cover Lower Strap Installation

LUMBAR SUPPORT

REMOVAL

(1) Remove the seat back cover. (Refer to 23 - BODY/SEATS/SEAT BACK COVER - REMOVAL).
(2) Disengage the heated seat connectors.
(3) Partially separate the seat back foam to access the lumbar frame clips.
(4) Separate the lumbar assembly from the seat frame.

LUMBAR SUPPORT (Continued)

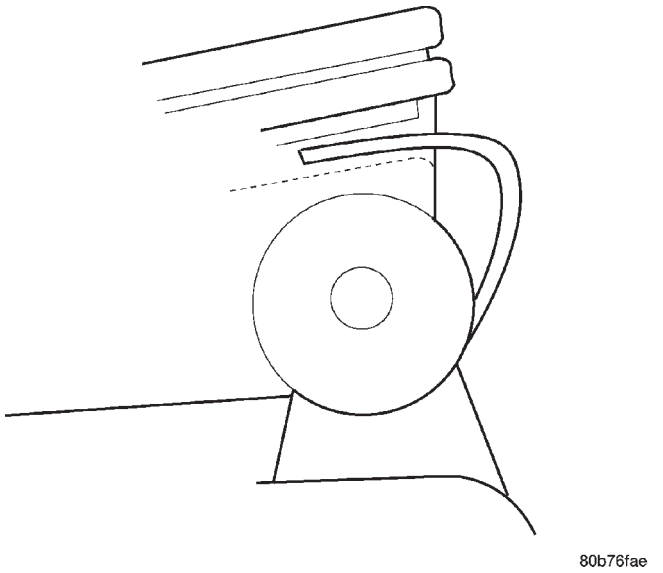

Fig. 3 Inertia Latch Cover Upper Strap

INSTALLATION

(1) Position the lumbar assembly on the seat back frame.
(2) Engage the retaining clips on the seat frame.
(3) Route the lumbar wire harness through seat assembly.
(4) Engage the heated seat wire connectors.
(5) Install the seat back cover. (Refer to 23 - BODY/SEATS/SEAT BACK COVER - INSTALLATION).
(6) Perform a function check on the seat operations.

SEAT - BENCH SEAT

REMOVAL

(1) Move seat track to forward position.
(2) Hinge seat backs forward.
(3) Remove nuts attaching rear of seat tracks to floor (Fig. 4).
(4) Move seat track to rearward position.
(5) Remove bolts attaching front of seat tracks to floor.
(6) Separate seat from vehicle.

INSTALLATION

NOTE: Seat adjustment latch must be engaged and in equal positions prior to seat installation. Verify inboard and outboard seat latch operation.

(1) Position seat in vehicle.
(2) Install bolts attaching front of seat tracks to floor. Tighten bolts to 54 N·m (40 ft. lbs.) torque.
(3) Move seat track to forward position.

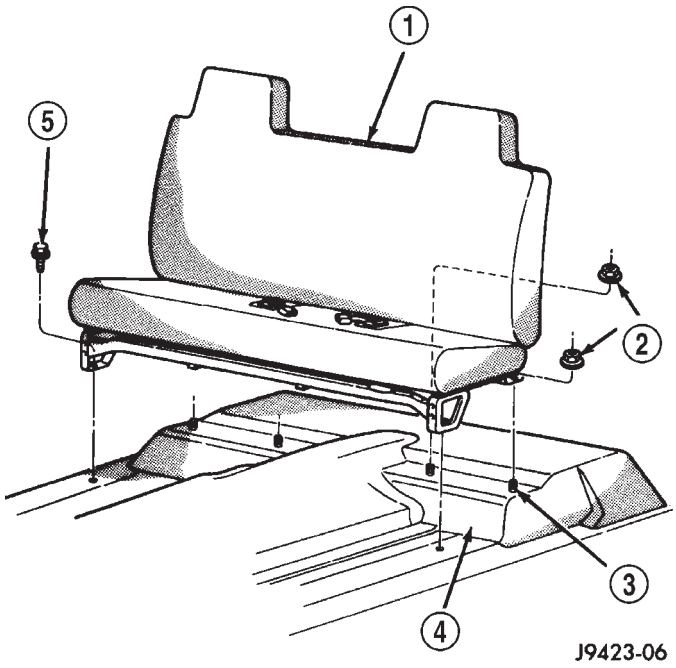

Fig. 4 Bench Seat

1 - BENCH SEAT
2 - NUT
3 - STUD
4 - FLOOR PAN
5 - SCREW

(4) Hinge seat backs forward.
(5) Install nuts attaching rear of seat tracks to floor. Tighten inboard nuts to 40 N·m (30 ft. lbs.) torque. Tighten outboard nuts to 54 N·m (40 ft. lbs.) torque.

SEAT - SPLIT BENCH

REMOVAL

STANDARD CAB

(1) Move seat track to forward position.
(2) Hinge seat back forward.
(3) Remove nuts holding outboard and inboard tracks to floor (Fig. 5).
(4) Move seat track to forward position.
(5) Remove bolt holding inboard seat track to bottom of center occupant seat.
(6) Remove bolts holding front of seat tracks to floor.
(7) Disengage power seat wire connector from body harness, if equipped (Fig. 5).
(8) Lift center occupant seat upward to clear rear attachment stud.
(9) Separate seat from vehicle.

SEAT - SPLIT BENCH (Continued)

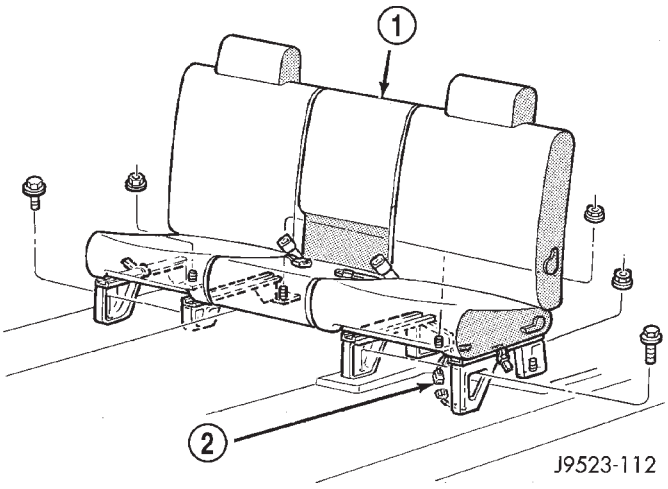

Fig. 5 Split Bench Seat

1 - SEAT
2 - POWER SEAT HARNESS CONNECTOR

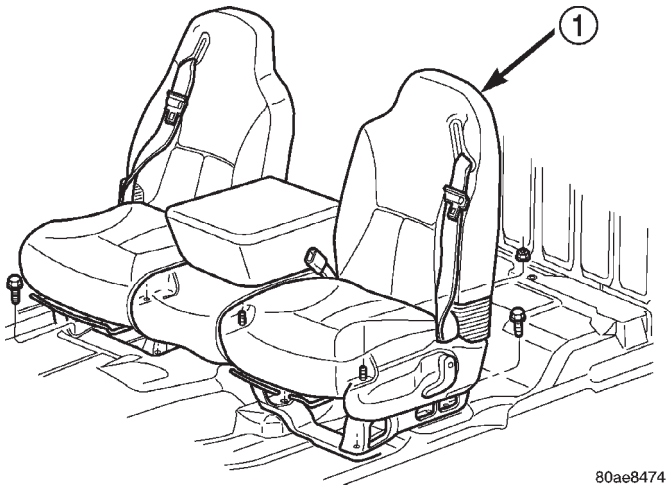

Fig. 6 Split Bench Seat—Club/Quad Cab

1 - SEAT

QUAD CAB

(1) Clamp seat belt to prevent belt from retracting.
(2) Move seats to full rearward position.
(3) Remove bolts attaching front of seat tracks to floor.
(4) Move seats to full forward position.
(5) Remove bolts attaching rear of outboard seat tracks to floor (Fig. 6).
(6) Remove nuts attaching inboard seat tracks to floor.
(7) Disengage wire connectors from body harness.
(8) Lift seats upward to clear rear studs.
(9) With the aid of a helper, separate seat from vehicle.

INSTALLATION

STANDARD CAB

(1) Position seat in vehicle.
(2) Connect power seat wire connector to body harness, if equipped.
(3) Install bolts holding front of seat tracks to floor. Tighten the bolts to 40 N·m (30 ft. lbs.) torque.
(4) Install bolt holding inboard seat track to bottom of center occupant seat. Tighten the bolt to 28 N·m (21 ft. lbs) torque.
(5) Install nuts holding outboard and inboard tracks to floor. Tighten the inboard nuts to 40 N·m (30 ft. lbs.) torque. Tighten the outer nuts to 54 N·m (40 ft. lbs. torque).

QUAD CAB

(1) Position seat in vehicle.

CAUTION: Verify that power is not being supplied when engaging connector.

(2) Engage driver's seat belt buckle wire connector. Engage power seat wire connector to body harness, if equipped.
(3) Ensure seats are in full forward position.
(4) Install outboard bolts attaching rear of seat tracks to floor (Fig. 6). Tighten the bolts to 54 N·m (40 ft. lbs.) torque.
(5) Install nuts attaching inboard seat tracks to floor. Tighten the nuts to 40 N·m (30 ft. lbs.) torque.
(6) Move seats to full forward position.
(7) Install bolts attaching front of seat tracks to floor. Tighten the bolts to 54 N·m (40 ft. lbs.) torque.

SEAT BACK - BENCH SEAT

REMOVAL

(1) Move seat to the full forward position.

(2) Release J-Strap and peel back side of cover (corner flap) (Fig. 8).

(3) Remove bolts attaching seat back to seat cushion and separate seat back from seat cushion (Fig. 7).

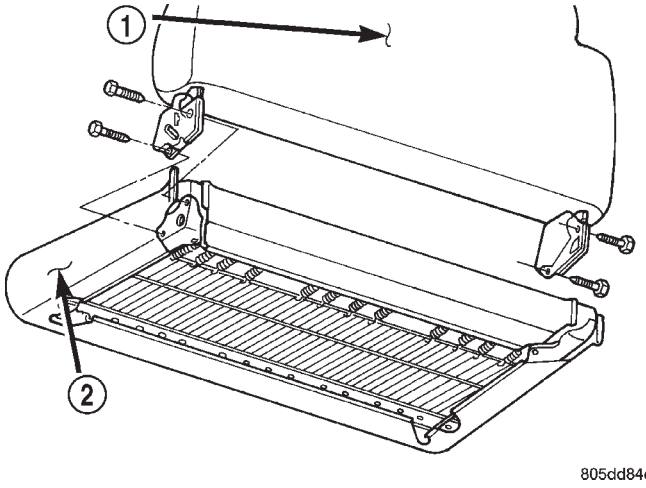

Fig. 7 Seat Back Removal/Installation

1 - SEAT BACK
2 - SEAT CUSHION

INSTALLATION

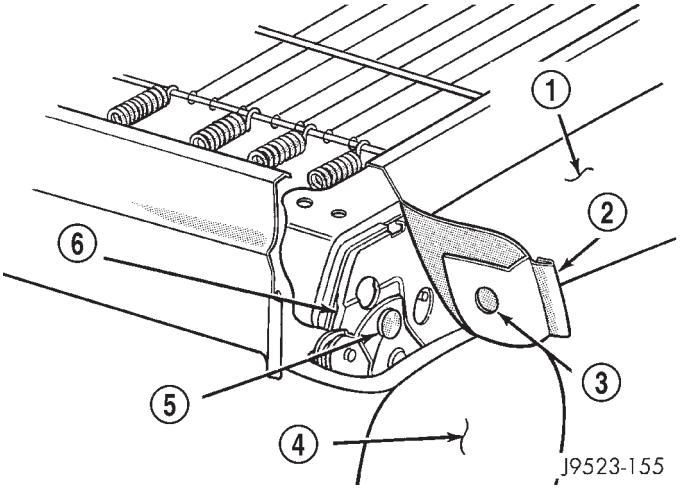

Fig. 8 J-Strap Corner Removal/Installation

1 - SEAT CUSHION
2 - J—STRAP
3 - PLASTIC COVER
4 - SEAT BACK
5 - PIN
6 - LATCH

(1) Align seat cushion with seat back.

(2) Install bolts through seat back latch into seat cushion frame. Tighten bolts to 25 N·m (18 ft. lbs.) torque.

(3) Pull side of cover (corner flap) facing rear of the cushion over and secure J-Strap (Fig. 8).

(4) Plastic cover on side cover (corner flap) at rear of cushion must be over the pin on the inertia latches.

SEAT BACK - SPLIT BENCH

REMOVAL

STANDARD CAB

(1) Disconnect power seat switch connector, if equipped.

(2) Remove center seat/console armrest. (Refer to 23 - BODY/SEATS/CENTER SEAT ARMREST / CONSOLE - REMOVAL).

(3) Disconnect rear end flap J-Straps and peel back rear J-Strap.

(4) Remove bolts attaching seat back to seat cushion frame.

(5) Separate seat back from seat cushion (Fig. 9).

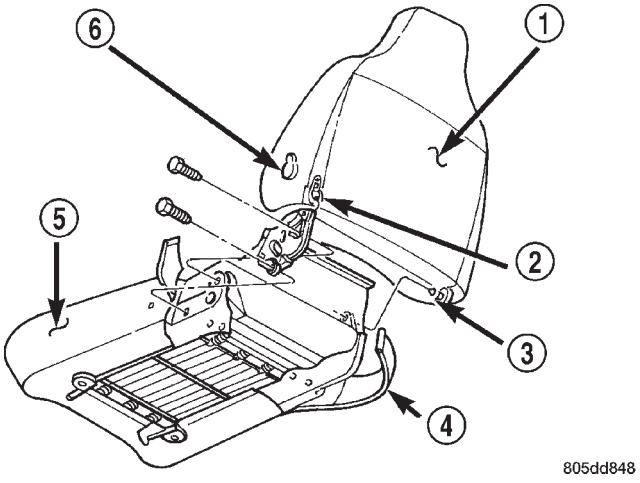

Fig. 9 Seat Back Removal

1 - SEAT BACK
2 - RELEASE LATCH KNOB
3 - SHOULDER BOLT
4 - END FLAP J—STRAP
5 - SEAT CUSHION
6 - LUMBAR HANDLE

QUAD CAB

(1) Remove screw attaching recliner handle and pull handle to remove.

(2) Remove seat dump handle, 2–door “BE” vehicles only.

(3) Remove screws attaching side shield to seat track adjuster.

SEAT BACK - SPLIT BENCH (Continued)

(4) Remove seat dump handle.

(5) Pull shoulder belt out completely and clamp shoulder belt to prevent shoulder belt from retracting (Fig. 10).

(6) Remove shoulder belt anchor bolt.

(7) From the underside of the seat, remove the inboard pivot bolt (Fig. 11).

WARNING: DO NOT REMOVE UPPER RECLINER HANDLE, PULL ON UPPER RECLINER HANDLE OR RECLINER CABLE END. THE RECLINER LEAD SCREW IS SPRING LOADED AND WILL EJECT IF EITHER THE HANDLE OR CABLE IS PULLED BEFORE THE LEAD SCREW IS REMOVED.

(8) Remove clip attaching recliner cable (Fig. 12) to seat track adjuster and separate the cable from the seat track adjuster.

(9) Remove the inboard and outboard pivot bolts attaching the frame to the seat track adjuster (Fig. 13).

(10) Remove recliner lower bolt.

(11) Separate seat back from seat track adjuster.

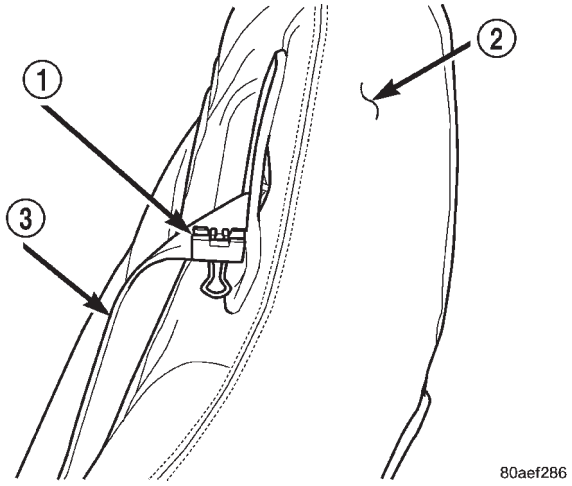

Fig. 10 Shoulder Belt Clamp

1 - CLAMP
2 - SEAT BACK
3 - SHOULDER BELT

INSTALLATION

STANDARD CAB

(1) Align seat cushion with seat back and install shoulder bolt through seat back into seat cushion frame on inboard side. Tighten bolt to 49 N·m (36 ft. lbs.) torque.

(2) Install bolts through seat back latch into seat cushion frame. Tighten bolts to 25 N·m (18 ft. lbs.) torque.

(3) Connect rear end flap J-Straps and pull rear J-Strap up and secure to frame.

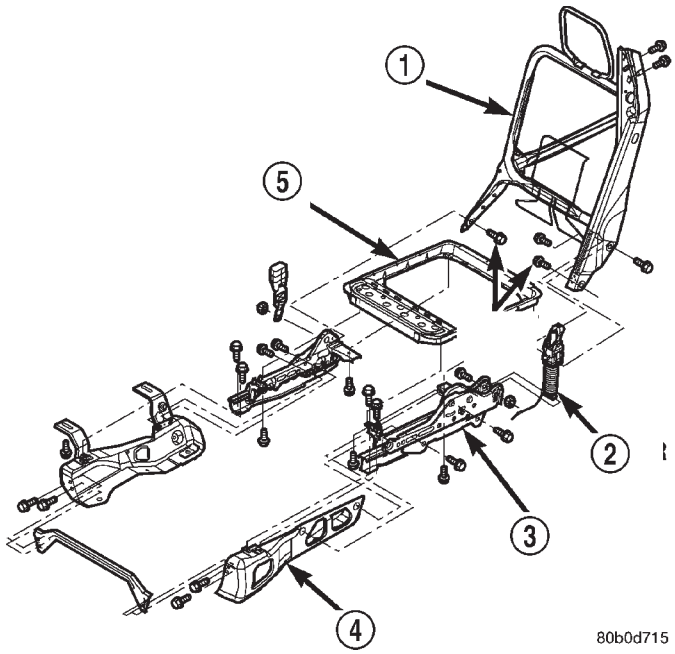

Fig. 11 Pivot Bolt

1 - SEAT BACK FRAME
2 - RECLINER
3 - SEAT TRACK ADJUSTER
4 - RISER
5 - SEAT CUSHION FRAME

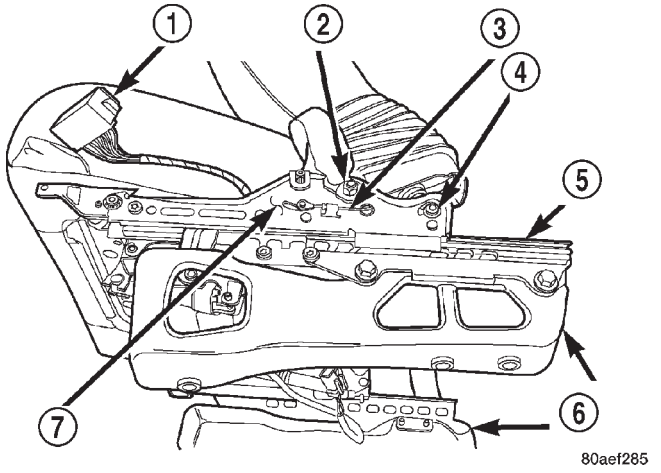

Fig. 12 Recliner Cable

1 - POWER SEAT SWITCH
2 - PIVOT BOLT
3 - RECLINER CABLE
4 - LOWER RECLINER BOLT
5 - SEAT TRACK
6 - SEAT RISER
7 - SEAT TRACK ADJUSTER

(4) Install seat in vehicle.

(5) Connect power seat switch connector, if equipped.

SEAT BACK - SPLIT BENCH (Continued)

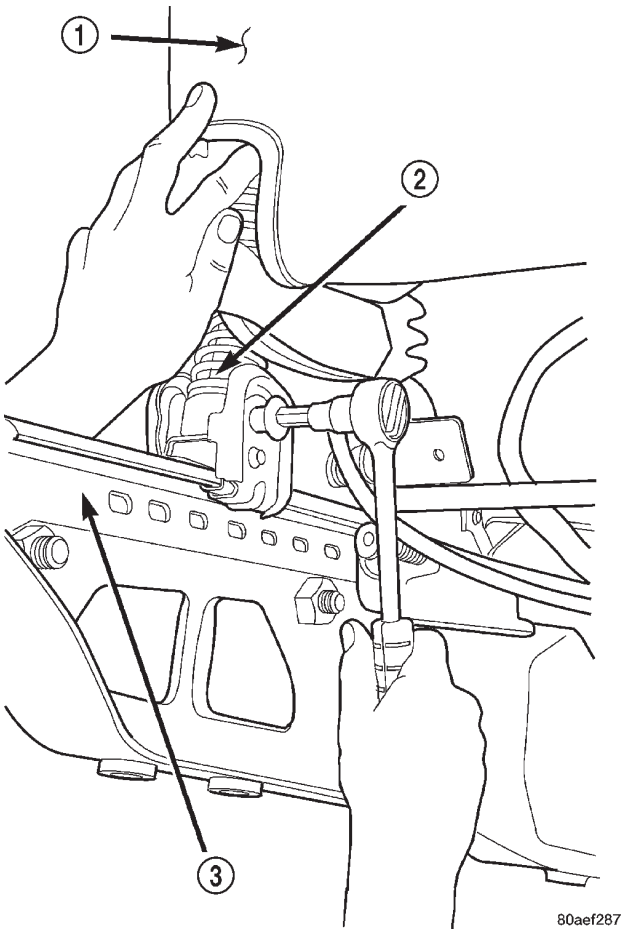

Fig. 13 Recliner

1 - SEAT BACK
2 - RECLINER
3 - SEAT TRACK

QUAD CAB

(1) Position seat back on seat track adjuster.
(2) Install the inboard and outboard pivot bolts attaching the frame to the seat track adjuster (Fig. 11).
(3) Install the bolt attaching the lower recliner to the seat track adjuster.
(4) Position the recliner cable on seat track adjuster and install **new** clip.
(5) Install shoulder belt anchor bolt. Tighten bolt to 45 N·m (33 ft. lbs.) torque.
(6) Remove clamp (Fig. 10).
(7) Install side shield.
(8) Install recliner handle.
(9) Install seat dump handle, if removed.

SEAT BACK COVER

REMOVAL

(1) Remove seat back from vehicle.(Refer to 23 - BODY/SEATS/SEAT BACK - BENCH SEAT - REMOVAL)
(2) Disengage J-Straps from base of seat back.
(3) Remove hogrings, if equipped.
(4) With seat back in a normal vertical position, roll cover upwards and remove.

INSTALLATION

(1) With seat back in a normal vertical position, roll cover downwards over seat back.
(2) Install hogrings, if equipped.
(3) Secure J-Straps at base of seat back.
(4) Install seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - BENCH SEAT - INSTALLATION)

SEAT BACK COVER - SPLIT BENCH

REMOVAL

(1) Remove the seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - REMOVAL)
(2) Using a trim stick or equivalent tool, pry off lumbar handle, if equipped (Fig. 14). (Damage to lumbar handle may occur during removal, verify availability of replacement handle before removing.)
(3) Remove latch release knob (Fig. 14).
(4) Remove latch release bezel.
(5) Disengage J-Straps from base of seat back.
(6) Remove hog rings, if equipped.
(7) With seat back in a normal vertical position, roll cover upwards and remove.

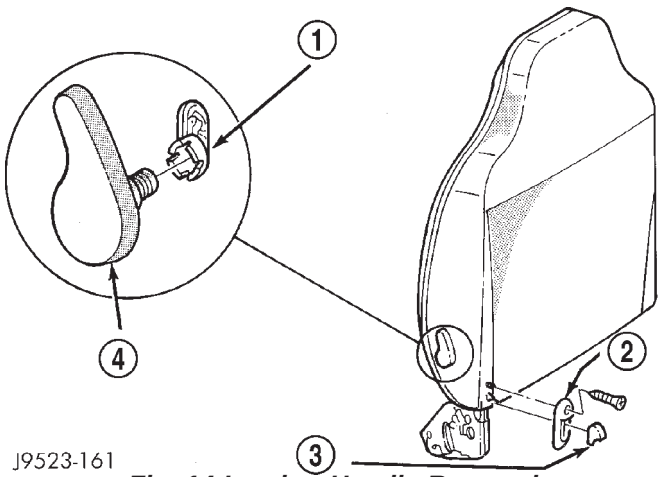

Fig. 14 Lumbar Handle Removal

1 - LUMBAR CAM
2 - BEZEL
3 - RELEASE LATCH KNOB
4 - LUMBAR HANDLE

INSTALLATION

(1) With seat back in a normal vertical position, roll cover downwards over seat back.
(2) Install hog rings, if equipped.

SEAT BACK COVER - SPLIT BENCH (Continued)

(3) Engage J-Straps at base of seat back.
(4) Align lumbar handle with lumbar cam and tap on with rubber mallet until seated.
(5) Install latch release bezel.
(6) Install latch release knob.
(7) Install seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - INSTALLATION)

SEAT BACK RECLINER

REMOVAL

(1) Remove seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - REMOVAL)
(2) Disengage J-straps at base of seat back and roll seat back cover upward to access rubber bellows push-in fasteners.

NOTE: Notice the routing of the recliner cable for installation.

(3) Remove the push-in fasteners attaching upper rubber bellows to the seat back frame.
(4) Remove rubber bellows.
(5) Remove seat dump handle, 2–door “BE” vehicles only.

WARNING: Do not pull on upper recliner handle or recliner cable end. The recliner lead screw is spring loaded and will eject if either the handle or cable is pulled before the lead screw is removed.

(6) Remove the bolts attaching upper recliner to seat back frame (Fig. 15).
(7)
Separate the recliner from the seat back.

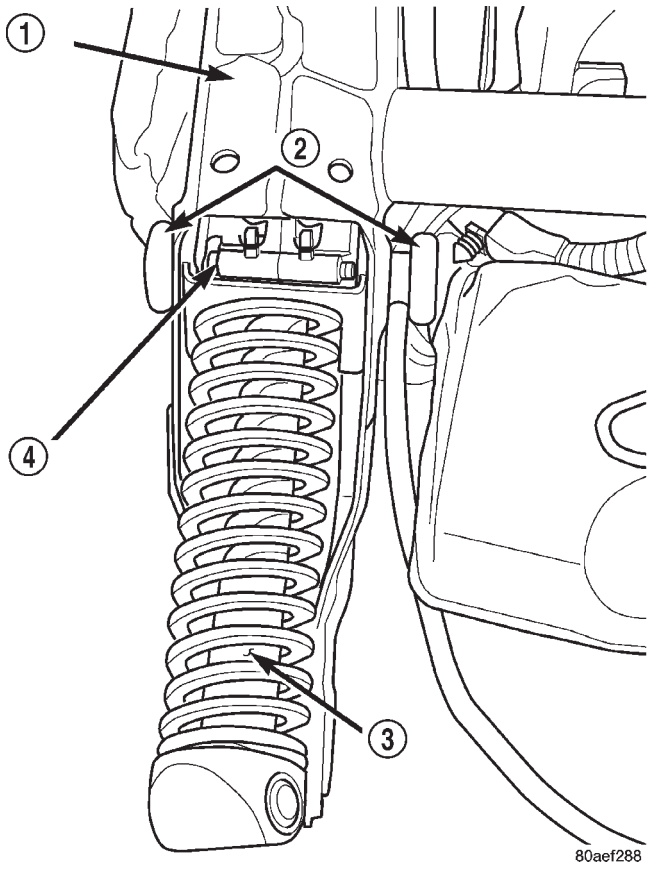

Fig. 15 Seat Back Recliner

1 - SEAT BACK FRAME
2 - BOLT
3 - LEAD SCREW
4 - SEAT BACK RECLINER

INSTALLATION

(1) Install seat dump handle, if removed.
(2) Position the recliner in the seat back.
(3) Install the bolts attaching upper recliner to seat back frame (Fig. 15).
(4) Install rubber bellows.
(5) Roll seat back cover upward and engage J-straps at base of seat back.
(6) Ensure recliner cable is correctly routed.
(7) Install seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - INSTALLATION)

SEAT CUSHION

REMOVAL

(1) Remove the seat. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - REMOVAL) or (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - REMOVAL)
(2) Remove the seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - BENCH SEAT - REMOVAL) or (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - REMOVAL)
(3) From the underside of the seat, remove the bolts attaching the cushion frame to the mounting brackets.
(4) Disengage wire harness connector, if equipped.
(5) Remove the cushion from the seat tracks.

INSTALLATION

(1) Position the cushion frame on the seat tracks.
(2) Ensure that the cushion frame is aligned with the mounting brackets (Fig. 16).
(3) Engage wire harness connector, if equipped.
(4) Install the bolts attaching the seat cushion frame to the mounting brackets. Tighten bolts to 25 N·m (18 ft. lbs.) torque.
(5) Install the seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - BENCH SEAT - INSTALLATION) or (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - INSTALLATION)

SEAT CUSHION (Continued)

(6) Install the seat. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - INSTALLATION) or (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - INSTALLATION)

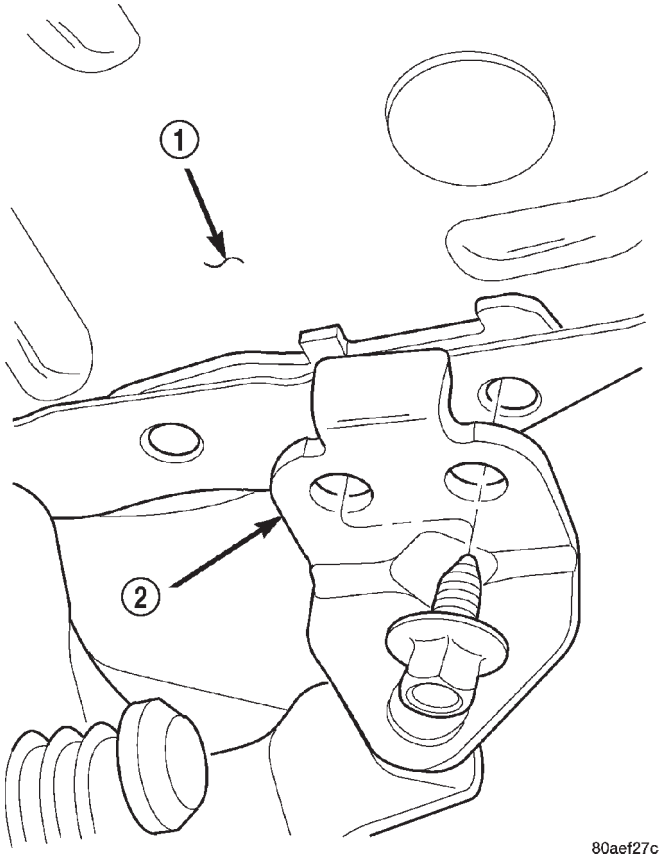

Fig. 16 Seat Cushion Mounting Frame

1 - SEAT CUSHION FRAME
2 - MOUNTING BRACKET

SEAT CUSHION COVER

REMOVAL

(1) Remove seat cushion. (Refer to 23 - BODY/SEATS/SEAT CUSHION - REMOVAL)
(2) Position seat cushion on a suitable work surface with frame side up.
(3) Remove seat track. (Refer to 23 - BODY/SEATS/SEAT TRACK - REMOVAL)
(4) Remove left and right side J-Straps.
(5) Remove rear J-Strap.
(6) Remove front J-Strap.
(7) Roll trim cover off of front and rear corners and separate from foam cushion.

INSTALLATION

(1) Position cushion cover on cushion and roll cover over front and rear corners.
(2) Secure front J-Strap (Fig. 17).
(3) Secure rear J-Strap.
(4) Secure left and right side J-Straps.
(5) Verify stitching lines are straight, correct as necessary.
(6) Install the seat track. (Refer to 23 - BODY/SEATS/SEAT TRACK - INSTALLATION)
(7) Install seat cushion. (Refer to 23 - BODY/SEATS/SEAT CUSHION - INSTALLATION)

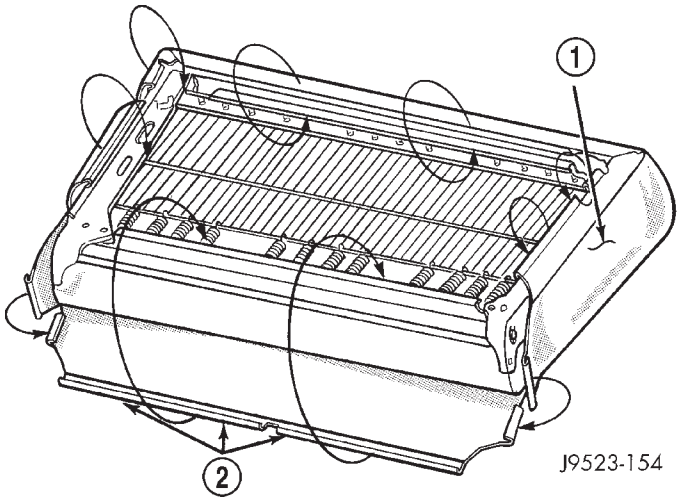

Fig. 17 J-Strap Installation

1 - SEAT CUSHION
2 - J—STRAPS

SEAT CUSHION COVER - SPLIT BENCH

REMOVAL

STANDARD CAB

(1) Remove seat tracks. (Refer to 23 - BODY/SEATS/SEAT TRACK - SPLIT BENCH - REMOVAL)
(2) Remove seat back. (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - REMOVAL)
(3) Remove left and right J-straps.
(4) Position seat cushion on a suitable work surface with frame side up.
(5) Remove rear J-strap.
(6) Remove front J-strap.
(7) Roll cushion cover off of foam cushion.

QUAD CAB

(1) Remove seat cushion. (Refer to 23 - BODY/SEATS/SEAT CUSHION - REMOVAL)
(2) Disengage the J-straps attaching the cushion cover to the cushion frame (Fig. 18).
(3) Peel the cushion cover and disengage the hook and loop fasteners (Fig. 19).
(4) Disengage the electrical connectors for the heated seat grid, if equipped.

SEAT CUSHION COVER - SPLIT BENCH (Continued)

(5) Disengage the hog rings attaching the cushion cover to the cushion frame (Fig. 20).

(6) Separate the cover from the cushion.

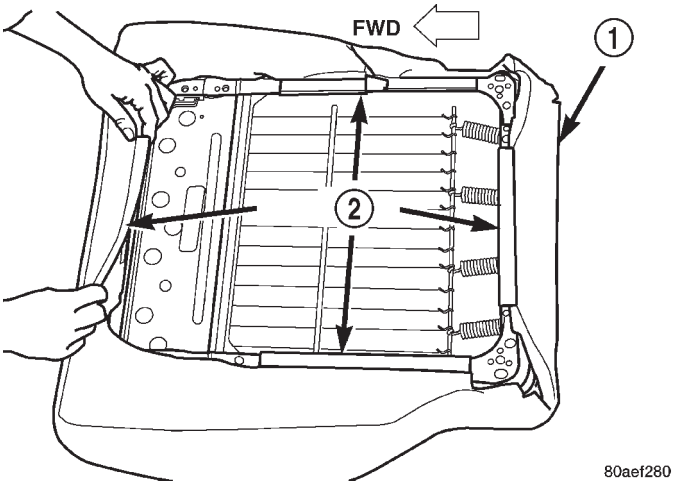

Fig. 18 Seat Cushion J-Straps

1 - SEAT CUSHION
2 - J—STRAPS

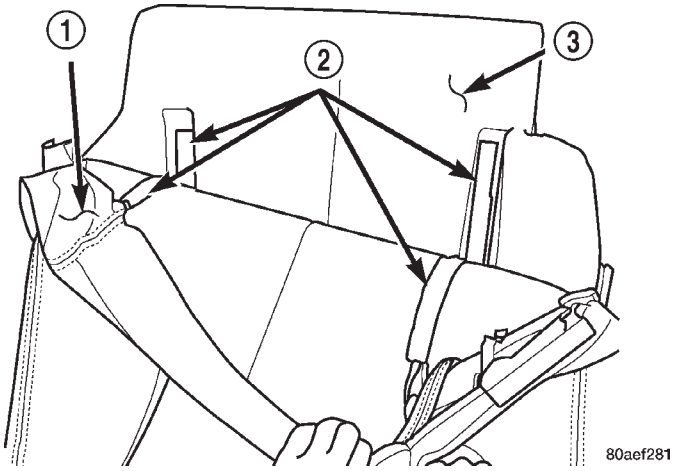

Fig. 19 Seat Cushion Cover Hook and Loop

1 - CUSHION COVER
2 - HOOK AND LOOP FASTENERS
3 - SEAT CUSHION

INSTALLATION

STANDARD CAB

(1) Position cushion cover on cushion and roll cover over front and rear corners. Verify stitching lines are straight, correct as necessary.

(2) Pull front J-strap up, align cover to foam notches and secure front J-strap to frame (Fig. 21).

(3) Install seat backs. (Refer to 23 - BODY/SEATS/SEAT BACK - SPLIT BENCH - INSTALLATION)

(4) Pull the left J-strap up and secure to frame. Verify cover is straight.

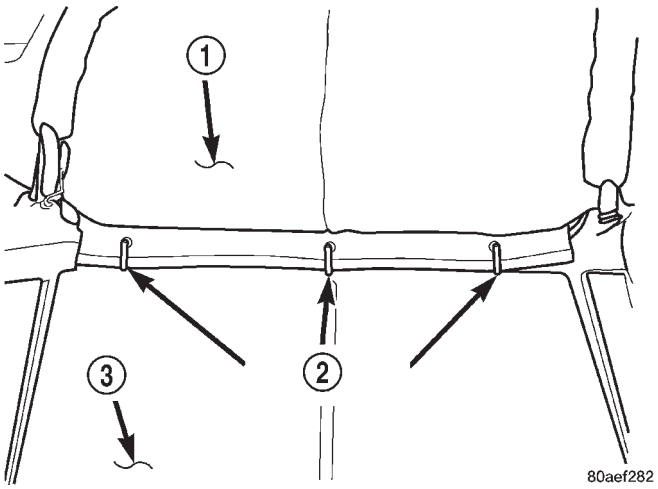

Fig. 20 Seat Cushion Cover Hog Rings

1 - CUSHION COVER
2 - HOG RINGS
3 - CUSHION

(5) Pull the right side J-strap up and secure to frame.

(6) Install seat tracks. (Refer to 23 - BODY/SEATS/SEAT TRACK - SPLIT BENCH - INSTALLATION)

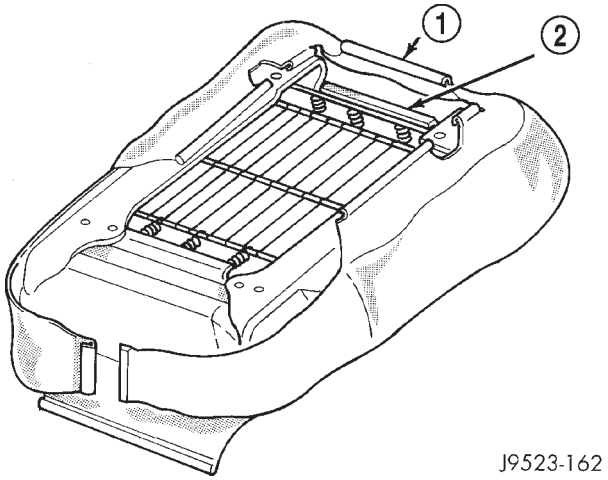

Fig. 21 J-Strap Installation

1 - J—STRAP
2 - FRAME

QUAD CAB

(1) Position the cover on the cushion.

(2) Engage the hog rings attaching the cushion cover to the cushion frame.

(3) Engage the hook and loop fasteners.

(4) Engage the electrical connectors for the heated seat grid, if equipped.

(5) Engage the J-straps attaching the cushion cover to the cushion frame.

(6) Install seat cushion. (Refer to 23 - BODY/SEATS/SEAT CUSHION - INSTALLATION)

SEAT RISER

REMOVAL

(1) Disconnect seat harness connector.

(2) Remove the seat from the vehicle. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - REMOVAL) or (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - REMOVAL)

(3) Remove the bolts attaching the seat track adjuster to the seat riser (Fig. 22).

(4) Separate the seat track adjuster from the riser.

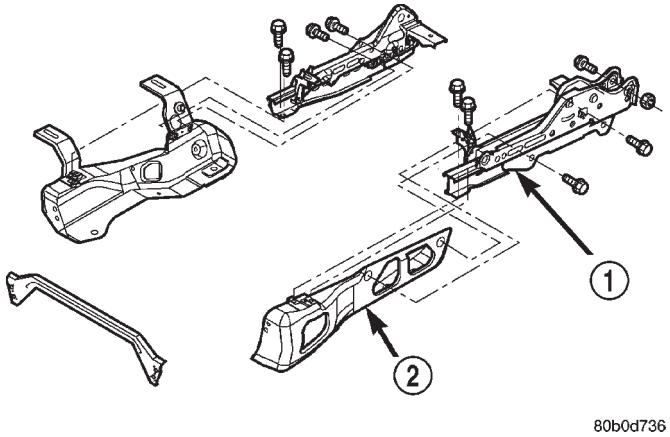

Fig. 22 Seat Riser

1 - SEAT TRACK ADJUSTER
2 - RISER

INSTALLATION

(1) Position the seat track adjuster on the riser.

(2) Install the bolts attaching the seat track adjuster to the seat riser. Tighten front bolts to 54 N·m (40 ft. lbs.) torque. Tighten rear inboard bolt to 40 N·m (30 ft. lbs.) torque. Tighten rear outboard bolt to 54 N·m (40 ft. lbs.) torque.

(3) Install the seat in the vehicle. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - INSTALLATION) or (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - INSTALLATION)

(4) Connect seat harness connector.

SEAT TRACK

REMOVAL

(1) Remove seat from vehicle. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - REMOVAL)

(2) Remove inboard seat belt buckles. (Refer to 8 - ELECTRICAL/RESTRAINTS/SEAT BELT BUCKLE - REMOVAL)

(3) Remove bolts attaching seat track to seat cushion frame (Fig. 23).

(4) Separate seat track from seat cushion frame.

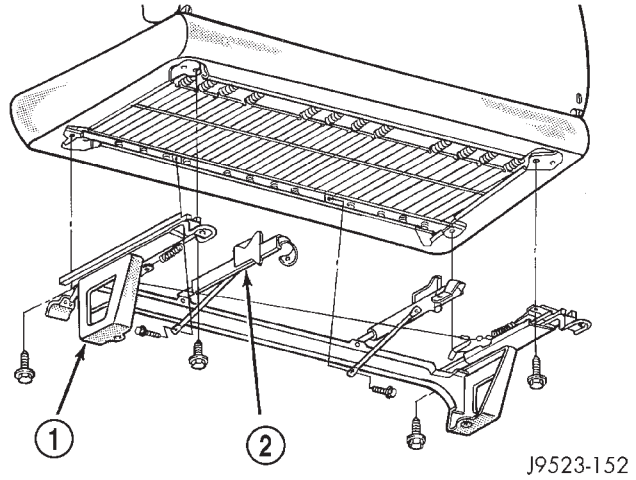

Fig. 23 Seat Track Removal

1 - SEAT TRACK
2 - SLIDER BAR

INSTALLATION

(1) Position seat track on seat cushion frame.

(2) Ensure seat track and slider bar are aligned.

(3) Install rear seat track bolts. Tighten seat track bolts to 25 N·m (18 ft. lbs.) torque.

(4) Install inboard seat belt buckles. (Refer to 8 - ELECTRICAL/RESTRAINTS/SEAT BELT BUCKLE - INSTALLATION)

(5) Pull seat release and move track rearward.

(6) Install front seat track bolts. Tighten seat track bolts to 25 N·m (18 ft. lbs.) torque.

(7) Align slider bars and install bolts. Tighten slider bar bolts to 10 N·m (89 in. lbs.) torque.

(8) Install seat. (Refer to 23 - BODY/SEATS/SEAT - BENCH SEAT - INSTALLATION)

SEAT TRACK - SPLIT BENCH

REMOVAL

(1) Remove seat from vehicle. (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - REMOVAL)

(2) Remove bolts from crossbrace to seat cushion frame and power track (Fig. 24).

(3) Remove bolts attaching center seat to seat frame and remove center seat.

(4) Remove bolts attaching seat track to seat frame (Fig. 25) and (Fig. 26).

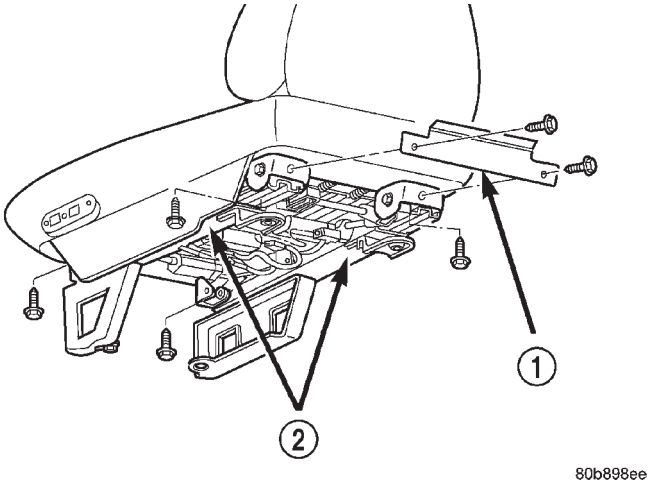

Fig. 24 Cross Brace

1 - CROSS BRACE
2 - SEAT TRACK

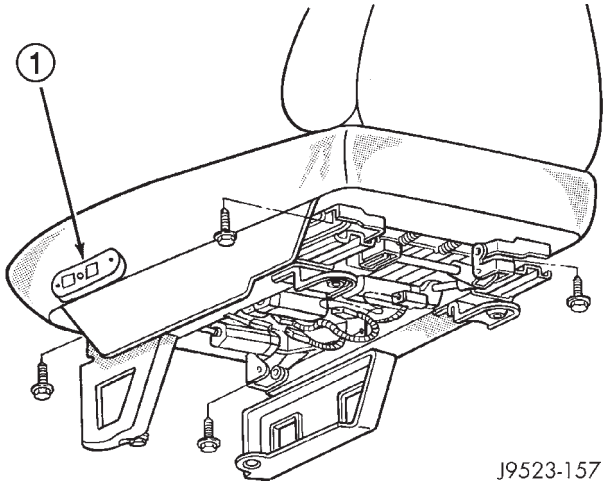

Fig. 25 Power Seat Track

1 - SEAT SWITCH

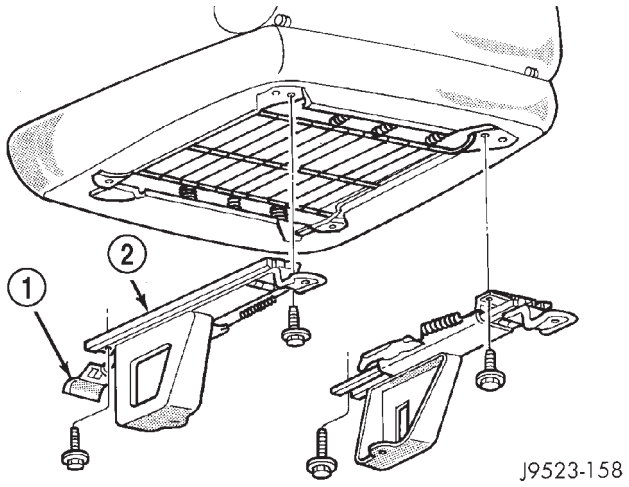

Fig. 26 Seat Track Removal/Installation

1 - RELEASE HANDLE
2 - SEAT TRACK

INSTALLATION

(1) Install bolts attaching seat track to seat frame. Tighten bolts to 25 N·m (18 ft. lbs.) torque.

(2) Install bolts into crossbrace and seat cushion frame to power track and torque to 10 N·m (8.5–11.5 ft. lbs.).

(3) Install bolts attaching center seat to seat frame. Tighten bolts to 25 N·m (18 ft. lbs.) torque.

(4) Install seat. (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - INSTALLATION)

(5) Power adjuster on power seat must be cycled in all 6 functions to ensure the adjuster is working properly.

EASY ENTRY SEAT TRACK

REMOVAL

(1) Remove front passenger seat. (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - REMOVAL)
(2) Remove recliner handle.
(3) Remove side shield.
(4) Disengage seat track latch release cables.
(5) Remove bolts attaching seat adjuster track to easy entry seat track. (Fig. 27).
(6) Remove inboard seat back pivot bolt.
(7) Disengage latch release cable from pulley.
(8) Separate seat adjuster track from seat back.

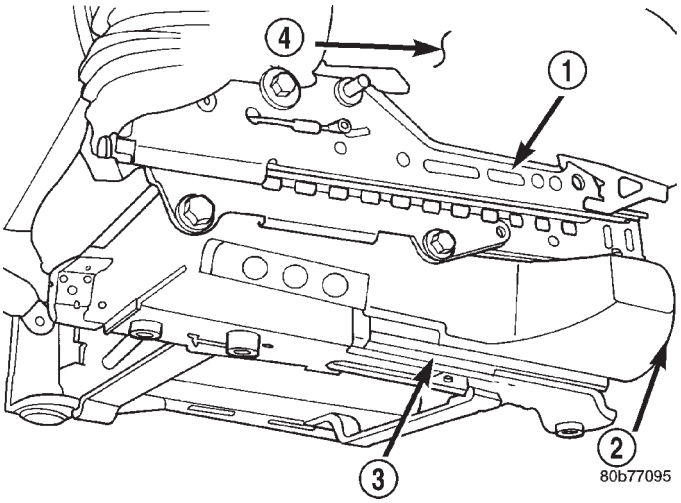

Fig. 27 EASY ENTRY SEAT TRACK

1 - SEAT ADJUSTER TRACK
2 - RISER
3 - EASY ENTRY SEAT TRACK
4 - SEAT CUSHION

INSTALLATION

(1) Position inboard easy entry seat track at seat back.
(2) Engage latch release cable around pulley.
(3) Install inboard seat back pivot bolt. Tighten bolt to 50 N·m (36 ft. lbs.) torque.
(4) Install screws attaching seat adjuster track to seat cushion frame. Tighten screws to 25 N·m (18 ft. lbs.) torque.
(5) Install bolts attaching easy entry seat track to seat adjuster track. Tighten front bolts to 17 N·m (12 ft. lbs.) torque. Tighten rear inboard bolts to 21 N·m (16 ft. lbs.) torque. Tighten rear outboard bolts to 45 N·m (33 ft. lbs.) torque.
(6) Engage seat track latch release cables.
(7) Install front passenger seat. (Refer to 23 - BODY/SEATS/SEAT - SPLIT BENCH - INSTALLATION)
(8) Install side shield.
(9) Install recliner handle.

SEAT TRACK ADJUSTER

REMOVAL

(1) Remove the seat cushion. (Refer to 23 - BODY/SEATS/SEAT CUSHION - REMOVAL)
(2) Unwind recliner spring from seat back. Use care not to lose upper spring seat.

WARNING: DO NOT PULL THE RECLINER CABLE OR THE RECLINER HANDLE. THE RECLINER LEAD SCREW IS SPRING LOADED AND WILL EJECT IF EITHER THE HANDLE , CABLE, OR TOWEL BAR IS PULLED BEFORE THE LEAD SCREW IS REMOVED.

(3) Remove right and left risers.

INSTALLATION

(1) Install the left and right risers.
(2) Install the recliner lead screw and spring in the seat back.
(3) Install seat cushion. (Refer to 23 - BODY/SEATS/SEAT CUSHION - INSTALLATION)

STANCHION COVER

REMOVAL

(1) Remove push-in fasteners attaching stanchion cover to seat stanchion (Fig. 28).
(2) Separate cover from seat stanchion.

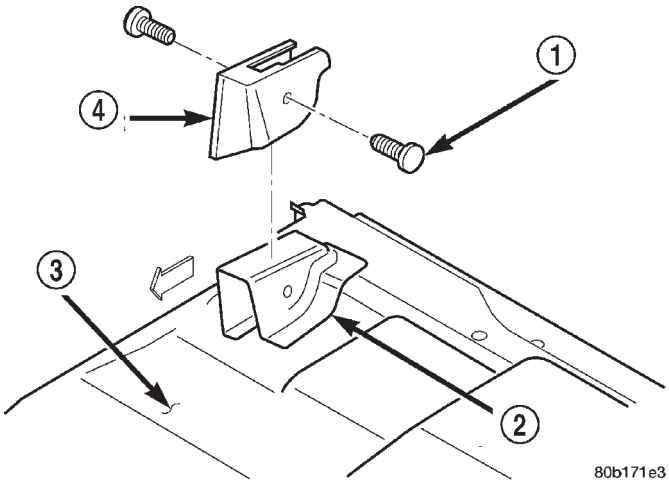

Fig. 28 Stanchion Cover

1 - PUSH—IN FASTENER
2 - SEAT STANCHION
3 - FLOOR PAN
4 - STANCHION COVER

INSTALLATION

(1) Position cover on seat stanchion.
(2) Install push-in fasteners attaching stanchion cover to seat stanchion (Fig. 28) .

REAR SEAT

REMOVAL

(1) Move front seat track to full forward position.

(2) Turn release handle on underside of rear seat (Fig. 29) to disengage seat cushion and move seat to the stowed position.

(3) Remove side support bracket screws and lift seat to disengage from cab (Fig. 30) .

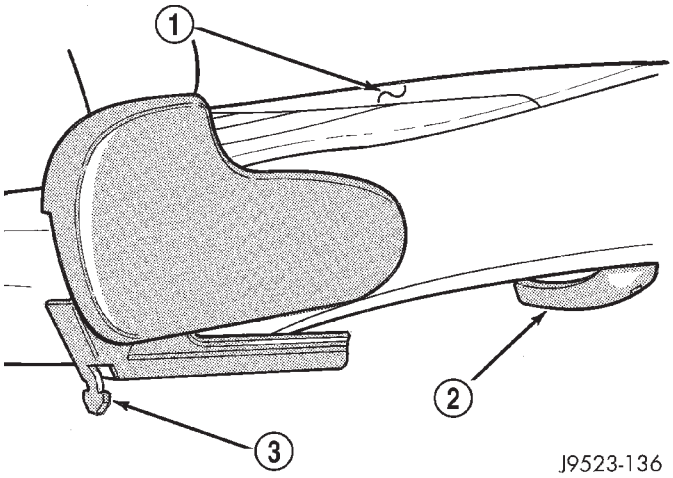

Fig. 29 Rear Seat Release Handle

1 - SEAT CUSHION
2 - RELEASE HANDLE
3 - ALIGNMENT TAB

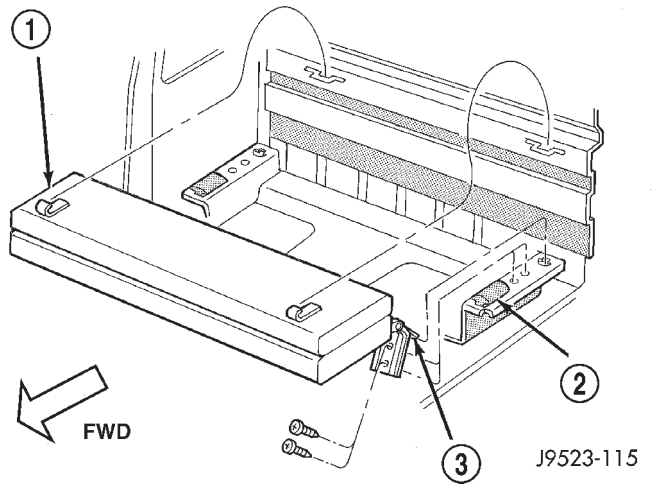

Fig. 30 Rear Seat Removal/Installation

1 - REAR SEAT
2 - BUMPER
3 - TAB

INSTALLATION

(1) Position seat in vehicle.

(2) Align seatback hooks with loops on cab rear panel (Fig. 31).

(3) Align side support alignment tabs, and lower seat into place.

(4) Install side support bracket screws. Tighten the screws to 28 N·m (21 ft. lbs.) torque.

(5) Turn release handle to disengage seat from stowed position and push seat cushion downward to lock into place.

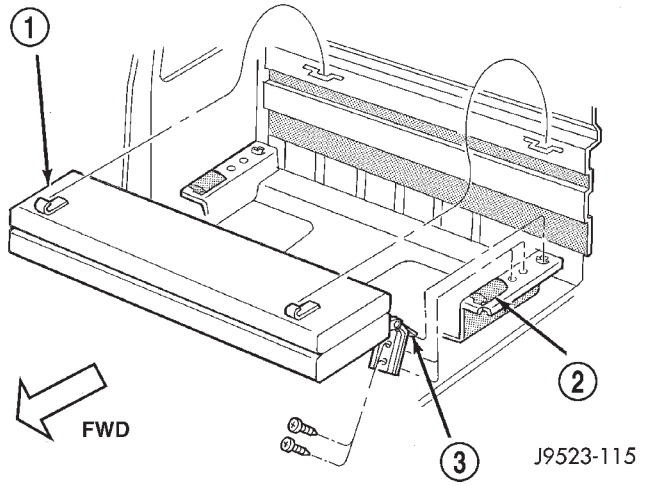

Fig. 31 Rear Seat Removal/Installation

1 - REAR SEAT
2 - BUMPER
3 - TAB

STATIONARY GLASS

TABLE OF CONTENTS

STATIONARY GLASS

DESCRIPTION

Windshields are made of two pieces of glass with a plastic inner layer. Windshields and selected stationary glass are structural members of the vehicle. The windshield glass is bonded to the windshield frame with urethane adhesive.

OPERATION

Windshields and other stationary glass protect the occupants from the effects of the elements. Windshields are also used to retain some airbags in position during deployment. Urethane bonded glass is difficult to salvage during removal. The urethane bonding is difficult to cut or clean from any surface. Before removing the glass, check the availability of replacement components.

BACKLITE

REMOVAL

It is difficult to salvage the backlite during the removal operation. The backlite is part of the structural support for the roof. The urethane bonding used to secure the glass to the fence is difficult to cut or clean from any surface. Since the molding is set in urethane, it is unlikely it would be salvaged. Before removing the backlite, check the availability from the parts supplier.

The backlite is attached to the window frame with urethane adhesive. The urethane adhesive is applied cold and seals the surface area between the window opening and the glass. The primer adheres the urethane adhesive to the backlite.

(1) Roll down door glass.

(2) Remove headliner. (Refer to 23 - BODY/INTERIOR/HEADLINER - REMOVAL).

(3) Remove rear closer panel trim. (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - REMOVAL).

(4) Bend backlite retaining tabs (Fig. 1) inward against glass.

(5) Using a suitable pneumatic knife from inside the vehicle, cut urethane holding backlite frame to opening fence.

(6) Separate glass from vehicle.

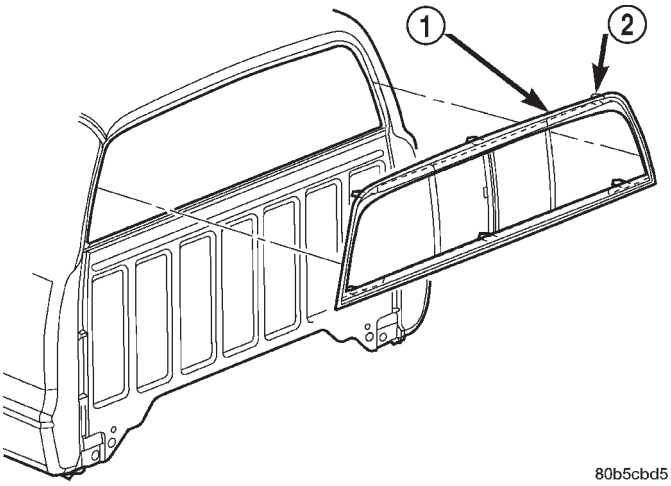

Fig. 1 Backlite Tabs

1 - BACKLITE
2 - TAB

INSTALLATION

(1) Clean urethane adhesive from around backlite opening fence.

BACKLITE (Continued)

(2) If necessary, apply black-out primer to outer edge of replacement backlite frame.

(3) If black-out primer was pre-applied on backlite, clean bonding surface with Isopropyl alcohol and clean lint free cloth. Allow 3 minutes for drying time.

(4) Apply black-out primer to backlite opening fence.

(5) Apply a 13 mm (0.5 in.) bead of urethane around the perimeter of the window frame bonding surface (Fig. 2).

(6) Set glass on lower fence and move glass forward into opening (Fig. 3).

(7) Firmly push glass against rear window glass opening fence.

(8) Bend tabs around edges of backlite opening fence to retain glass.

(9) Clean excess urethane from exterior with MOPAR, Super Clean or equivalent.

(10) Allow urethane to cure at least 24 hours (full cure is 72 hours).

(11) Water test to verify repair before returning vehicle to service.

(12) Install rear closer panel trim. (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - INSTALLATION).

(13) Install the headliner. (Refer to 23 - BODY/INTERIOR/HEADLINER - INSTALLATION).

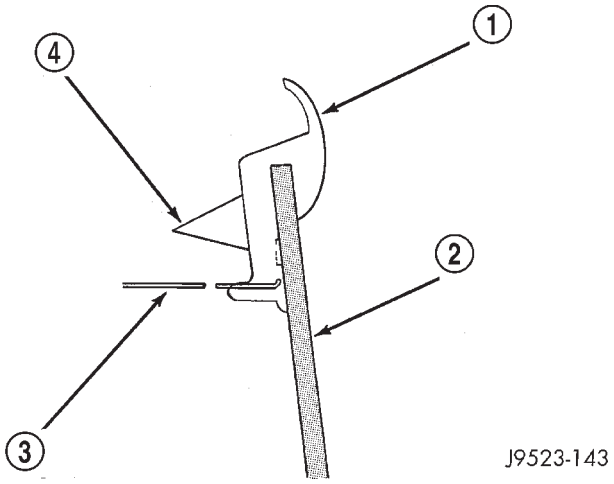

Fig. 2 Urethane Adhesive Application

1 - WINDOW FRAME
2 - GLASS
3 - RETAINER TAB
4 - URETHANE ADHESIVE

BACKLITE LATCH AND KEEPER

REMOVAL

(1) Disengage latch and keeper.

(2) Remove latch/keeper screws.

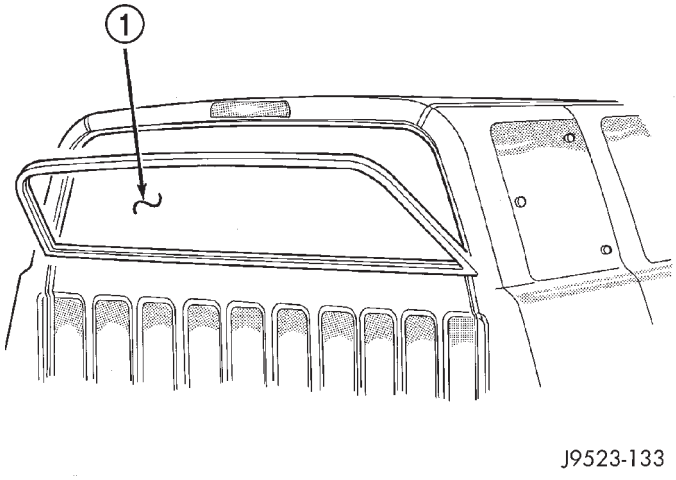

Fig. 3 Backlite Installation

1 - BACKLITE

(3) Separate Latch/keeper from glass panel.

INSTALLATION

(1) Position Latch/keeper on glass panel.

(2) Install screws. Tighten the screws with 1.5 N·m (15 in. lbs.) torque.

(3) Engage latch and keeper to verify operation.

BACKLITE VENT GLASS

REMOVAL

(1) Close and latch sliding vent glass.

(2) Remove rear closure panel trim, if necessary. (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - REMOVAL).

(3) Grasp end of lower run channel.

(4) Roll corners of lower run channel outward (Fig. 4).

(5) Disengage enough of the lower run channel from the backlite frame lower rail and firmly pull/slide lower run channel outward (Fig. 5).

(6) Disengage vent glass from upper run channel.

(7) Separate vent glass from backlite frame.

INSTALLATION

(1) Remove excess sealer from backlite frame lower rail.

(2) Clean bond area with hand scuff pad.

(3) Clean bond area with Mopar® Tar and Oil Remover or equivalent.

(4) Using a lint free cloth, clean bond area with 50/50 mixture of Isopropyl alcohol and water.

(5) Apply a 0.5 mm bead of pumpable grade butyl along entire length of the lip retainer in lower run channel (Fig. 6).

(6) Slide vent glass panels into lower run channel.

BACKLITE VENT GLASS (Continued)

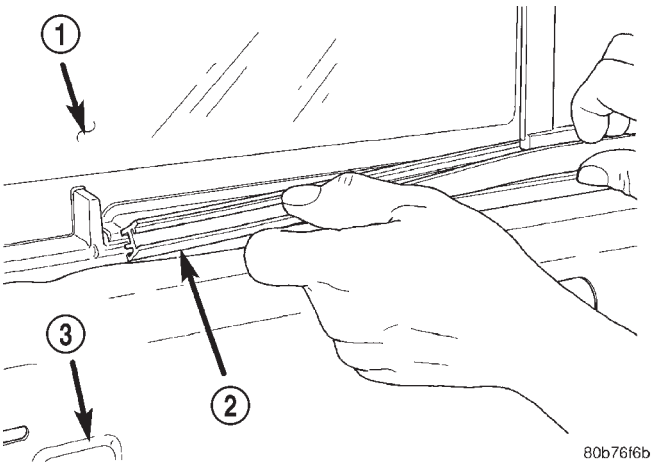

Fig. 4 Lower Run Channel

1 - SLIDING BACKLITE
2 - LOWER RUN CHANNEL
3 - CAB BACK PANEL

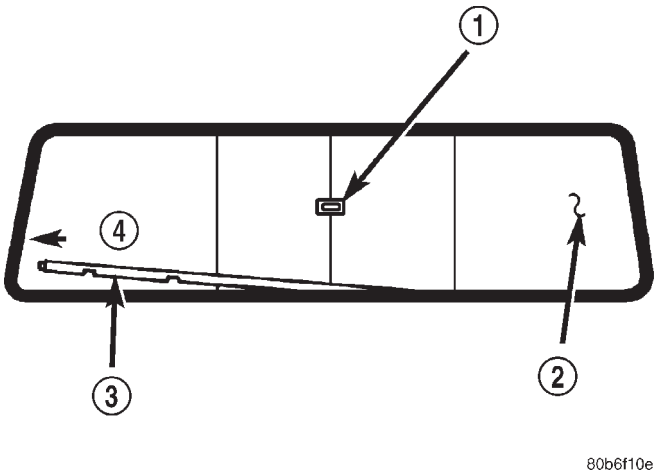

Fig. 5 Lower Run Channel Removal

1 - LATCH/KEEPER
2 - BACK LITE
3 - LOWER RUN CHANNEL
4 - SLIDE OUTWARD

(7) Latch vent glass panels

(8) Insert upper ends of vent glass panels into upper run channel.

NOTE: Aggressive clamp pressure is required to lock lower run channel into place.

(9) Position lower run channel on backlite frame lower rail and roll lower run channel onto backlite frame rail.

(10) Fill the ends of the run channel with Mopar GEN II Silicone Rubber Adhesive Sealant or equivalent.

(11) Verify window and latch/keeper operation.

(12) Install rear closure panel trim. (Refer to 23 - BODY/INTERIOR/REAR CLOSURE PANEL TRIM - INSTALLATION).

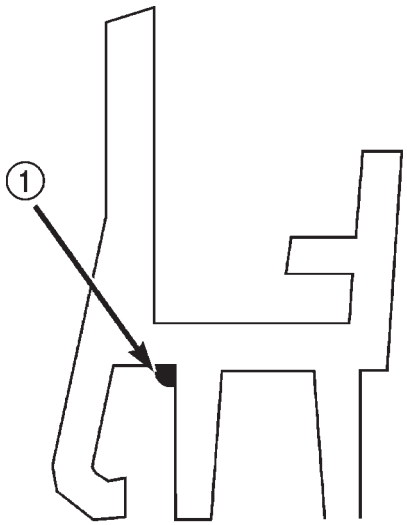

Fig. 6 Glass Panel Installation

1 - INSERT A 0.5mm DIA. BEAD OF PUMPABLE GRADE BUTYL ALONG THE ENTIRE LENGTH OF THE LOWER RUN WINDOW CHANNEL

WINDSHIELD

DESCRIPTION

The windshield is attached to the window frame with urethane adhesive. The urethane adhesive is applied cold and seals the surface area between the window opening and the glass. The primer adheres the urethane adhesive to the 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

(1) Remove inside rear view mirror. (Refer to 23 - BODY/INTERIOR/REAR VIEW MIRROR - REMOVAL).

(2) Remove cowl grill. (Refer to 23 - BODY/EXTERIOR/COWL GRILLE - REMOVAL).

(3) With doors open, remove windshield molding (Fig. 7). Pull outward on molding beginning at the bottom of A-pillars using pliers.

(4) Cut urethane bonding from around windshield using a suitable sharp cold knife (C-4849). A pneumatic cutting device can be used but is not recommended (Fig. 8).

(5) Separate windshield from vehicle.

WINDSHIELD (Continued)

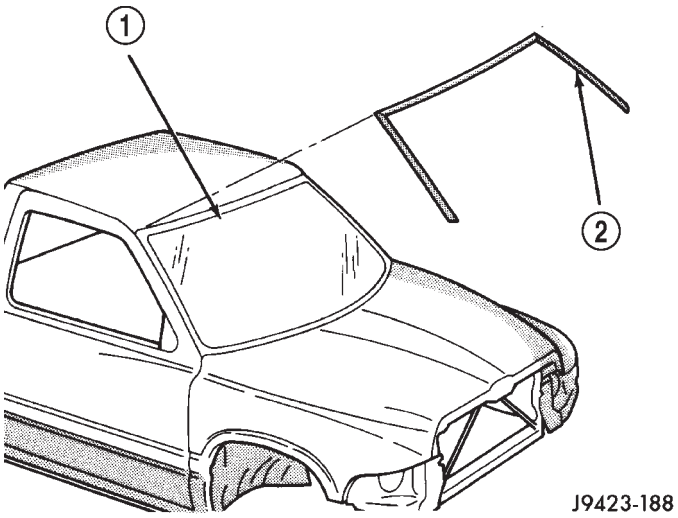

Fig. 7 Windshield Moldings

1 - WINDSHIELD
2 - WINDSHIELD MOLDING

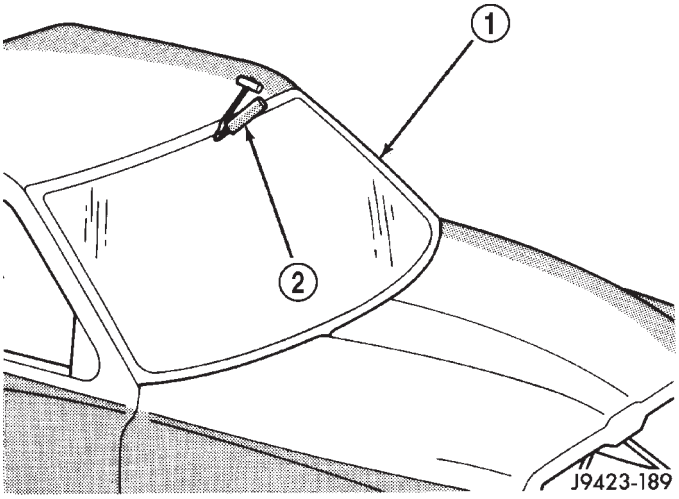

Fig. 8 Cut Urethane Around Windshield

1 - WINDSHIELD
2 - COLD KNIFE

INSTALLATION

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

CAUTION: Roll down the left and right front door glass and open the rear glass slider (if available) before installing windshield to avoid pressurizing the passenger compartment if a door is slammed before urethane is cured. Water leaks can result.

The windshield fence should be cleaned of most of its old urethane bonding material. A small amount of old urethane, approximately 1-2 mm in height, should remain on the fence. Do not grind off or completely remove all old urethane from the fence, the paint finish and bonding strength will be adversely affected.

(1) Place replacement windshield into windshield opening and position glass in the center of the opening against the support spacers. Mark the outside surface of 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. Remove replacement windshield from windshield opening (Fig. 9).

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

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

(4) Apply clear glass primer 25 mm (1 in.) wide around perimeter of windshield and wipe with a new clean and dry lint- free cloth.

(5) Apply the molding to the windshield:

(a) Press the upper corners of the molding onto the windshield.

(b) Press the header section onto the windshield.

(c) Press the A-Pillar sections onto the windshield.

(6) Apply black-out primer onto the glass using the windshield molding as a guide. The primer should be 15 mm (5/8 in.) wide on the top and sides of the glass and 25 mm (1 in.) on the bottom of windshield. Allow at least three minutes drying time.

(7) Locate **new** support spacers on support brackets and adjust to lowest height.

(8) Position one 5 mm (3/16 in.) soft spacer (p/n 55028214) at the bottom of the windshield fence (Fig. 11).

(9) Apply a 13mm (1/2 in.) high and 10mm (3/8 in.) wide bead of urethane around the perimeter of windshield. At the bottom, apply the bead 7 mm (1/4 in.) inboard from the glass edge. On the three sides where the molding is on the glass, follow the edge of molding. The urethane bead should be shaped in a triangular cross-section, this can be achieved by notching the tip of the applicator (Fig. 12).

(10) 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.

(11) Slowly lower windshield glass to the fence opening guiding the lower corners into proper position. Beginning at the bottom and continuing to the top, push glass onto fence along the A-Pillars. Push windshield inward to the fence at the bottom corners (Fig. 13).

(12) Push windshield upward, snug with roof and ratchet up the adjustable support brackets. Discard tab from support spacer.

(13) Using clean water, lightly mist the support spacers.

WINDSHIELD (Continued)

(14) Clean excess urethane from exterior with MOPAR® Super Clean or equivalent.

(15) 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.

(16) Install cowl grill. (Refer to 23 - BODY/EXTERIOR/COWL GRILLE - INSTALLATION).

(17) Install rear view mirror support bracket. (Refer to 23 - BODY/INTERIOR/REAR VIEW MIRROR - INSTALLATION).

(18) Install rear view mirror. (Refer to 23 - BODY/INTERIOR/REAR VIEW MIRROR - INSTALLATION).

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

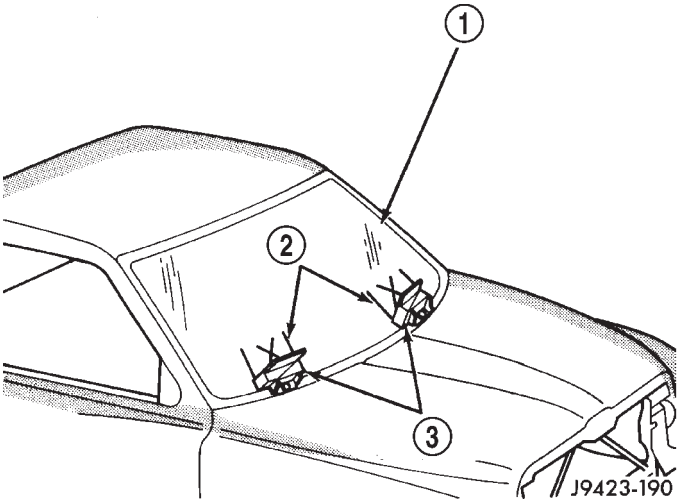

Fig. 9 Center Windshield and Mark at Support

1 - WINDSHIELD
2 - INDEX MARKS
3 - SUPPORT SPACERS

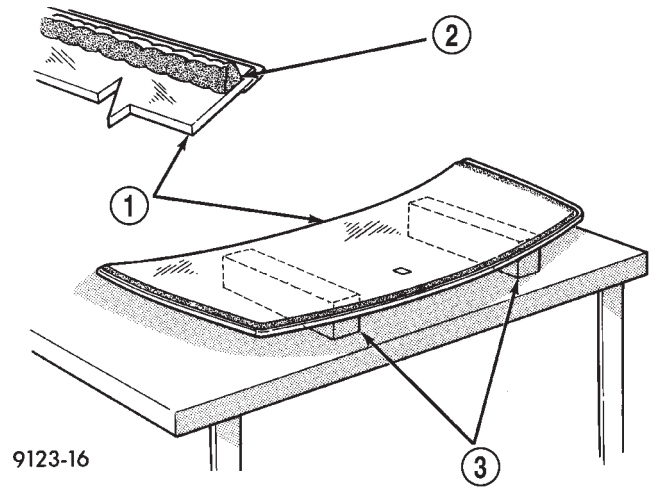

Fig. 10 Work Surface Set up

1 - WINDSHIELD AND MOULDINGS
2 - URETHANE BEAD AROUND GLASS 7mm (.3 in.) FROM EDGE
3 - BLOCKS

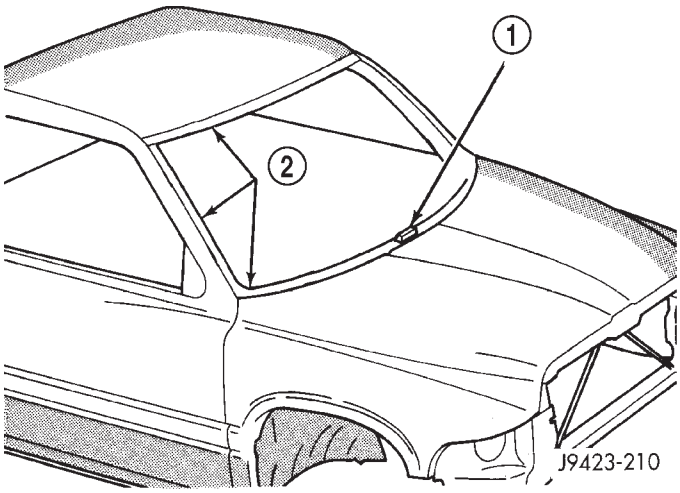

Fig. 11 Position Urethane Compression Spacer

1 - URETHANE COMPRESSION SPACER
2 - FENCE

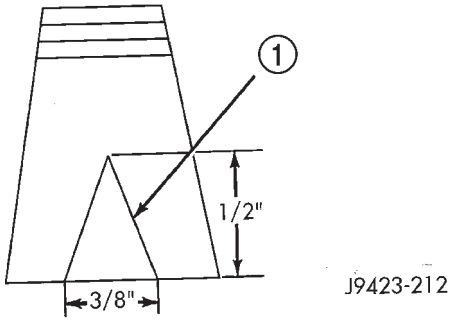

Fig. 12 Applicator Tip

1 - APPLICATOR TIP

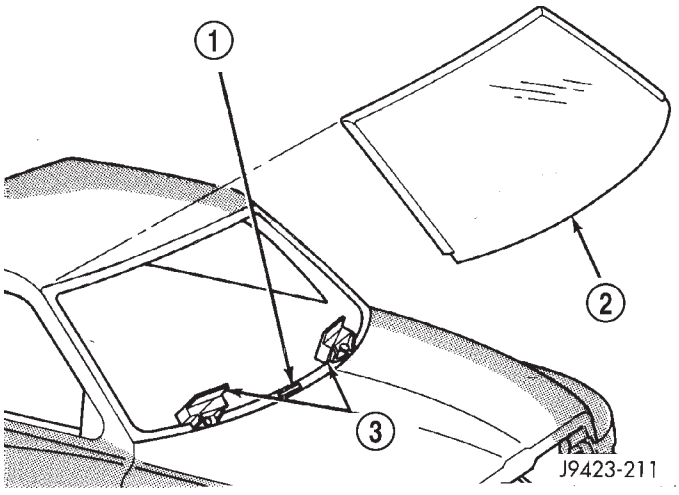

Fig. 13 Lower Windshield Into Position

1 - COMPRESSION SPACER
2 - WINDSHIELD
3 - ADJUSTABLE SUPPORT SPACERS

QUARTER WINDOW

REMOVAL

(1) Remove quarter trim panel.
(2) Remove the latch retaining screws from the cab rear side panel (Fig. 14) .
(3) Remove the frame/hinge retaining nuts from the B-pillar.
(4) Remove the window glass from the cab.
(5) If necessary, remove the latch from the glass.

INSTALLATION

(1) If removed, install the latch to the glass. Tighten the screw to 6 N·m (60 in. lbs.) torque.
(2) Center the window glass at the opening, insert the hinge studs in the B-pillar holes, and install the retaining nuts. Tighten the nuts to 8 N·m (70 in. lbs.) torque.
(3) Attach the latch to the rear side panel with the screws. Tighten the screws with the latch in the lock position and pushing rearward on the latch. Tighten the screws to 8 N·m (70 in. lbs.) torque.

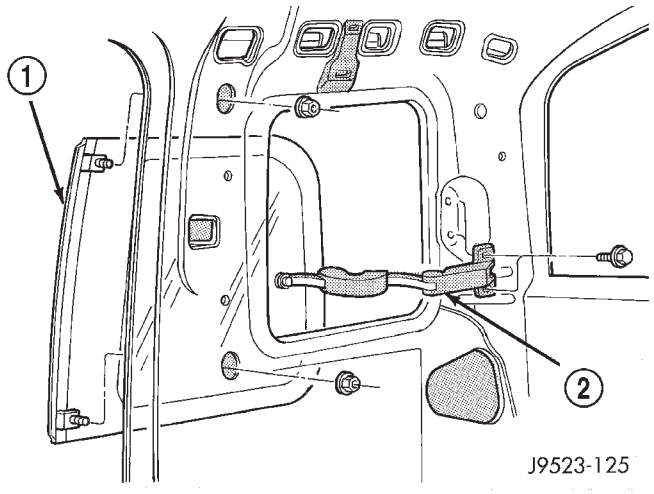

Fig. 14 Vent Window—Club Cab

1 - QUARTER GLASS
2 - LATCH

(4) Test the vent window for water leaks.
(5) Install quarter trim panel.

WEATHERSTRIP/SEALS

TABLE OF CONTENTS

B-PILLAR DOOR SEAL

REMOVAL

(1) Warm the seal and body metal to approximately 38°C (100°F) using a suitable heat lamp or heat gun.

(2) Pull seal from painted surface (Fig. 1).

INSTALLATION

(1) Remove adhesive tape residue from painted surface of vehicle.

(2) If seal is to be reused, remove tape residue from seal. Clean back of seal with MOPAR®, Super Kleen solvent or equivalent. Wipe seal dry with lint free cloth. Apply new body side molding (two sided adhesive) tape to back of seal.

(3) Clean body surface with MOPAR®, Super Kleen solvent or equivalent. Wipe surface dry with lint free cloth.

(4) Remove protective cover from tape on back of seal and apply seal to body.

(5) Heat body and seal, see step one. Firmly press seal to body surface to assure adhesion (Fig. 1).

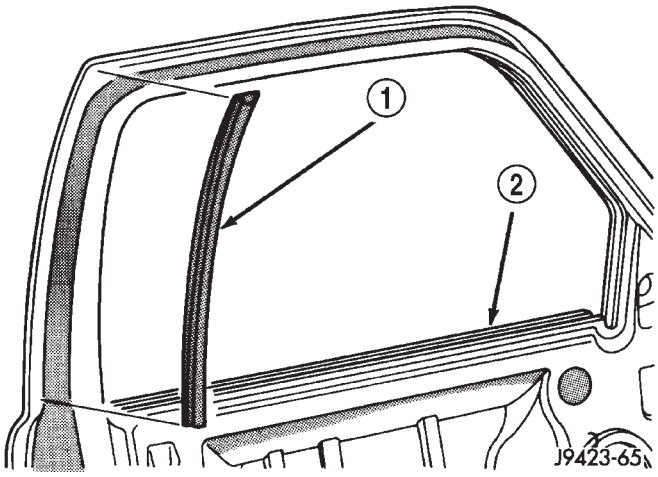

Fig. 1 B-Pillar Secondary Seal

1 - B—PILLAR SECONDARY SEAL
2 - DOOR

COWL WEATHERSTRIP

REMOVAL

(1) Grasp cowl seal and pull from cowl flange.
(2) Separate cowl seal from vehicle (Fig. 2).

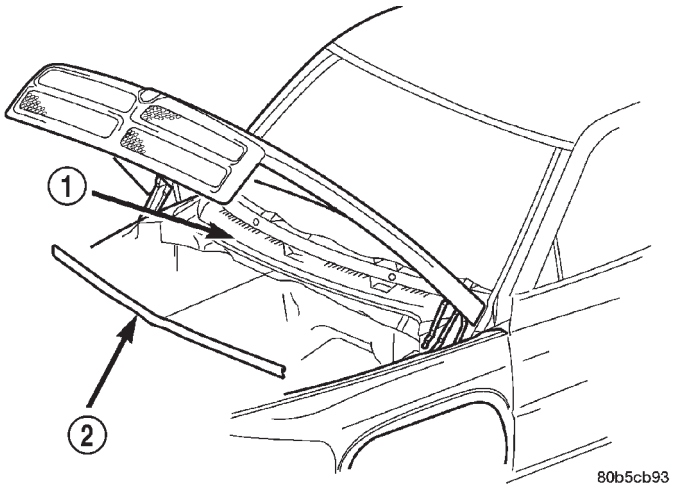

Fig. 2 Cowl Seal

1 - COWL
2 - COWL SEAL

INSTALLATION

(1) Position cowl seal on flange and press into place.

DOOR OPENING SEAL

REMOVAL

(1) Remove A-pillar molding. (Refer to 23 - BODY/INTERIOR/A-PILLAR TRIM - REMOVAL)
(2) Remove cowl pane.(Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - REMOVAL)
(3) Remove sill cover. (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - REMOVAL)
(4) Remove B-pillar trim. (Refer to 23 - BODY/INTERIOR/B-PILLAR TRIM - REMOVAL)
(5) Pull seal from pinch flange around door opening (Fig. 3).

INSTALLATION

(1) Press seal onto pinch flange around door opening (Fig. 3).
(2) Install B-pillar trim panel. (Refer to 23 - BODY/INTERIOR/B-PILLAR TRIM - INSTALLATION)
(3) Install cowl panel. (Refer to 23 - BODY/INTERIOR/COWL TRIM COVER - INSTALLATION)
(4) Install sill cover. (Refer to 23 - BODY/INTERIOR/DOOR SILL TRIM - INSTALLATION)

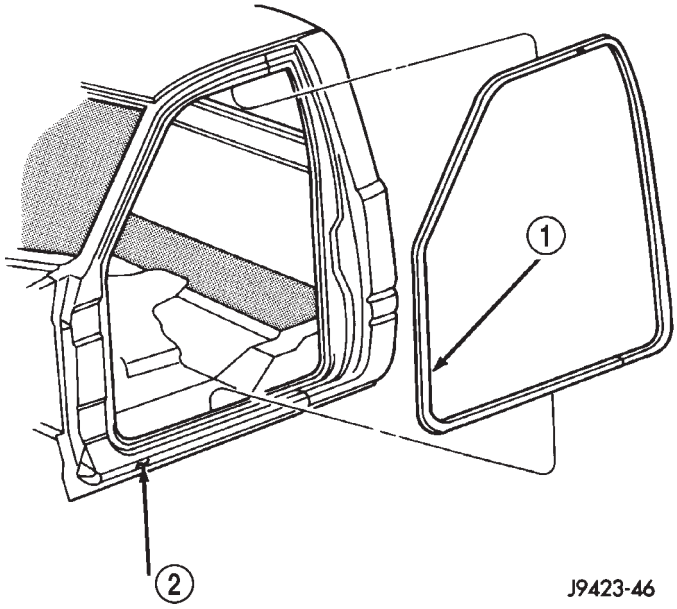

Fig. 3 Door Opening Seal—Club Cab

1 - DOOR SEAL
2 - BODY

(5) Install A-pillar molding. (Refer to 23 - BODY/INTERIOR/A-PILLAR TRIM - INSTALLATION)

FRONT DOOR GLASS RUN WEATHERSTRIP

REMOVAL

(1) Remove inner door belt weatherstrip. (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR INNER BELT WEATHERSTRIP - REMOVAL)
(2) Pull door glass run weatherstrip from channel around window opening (Fig. 4).

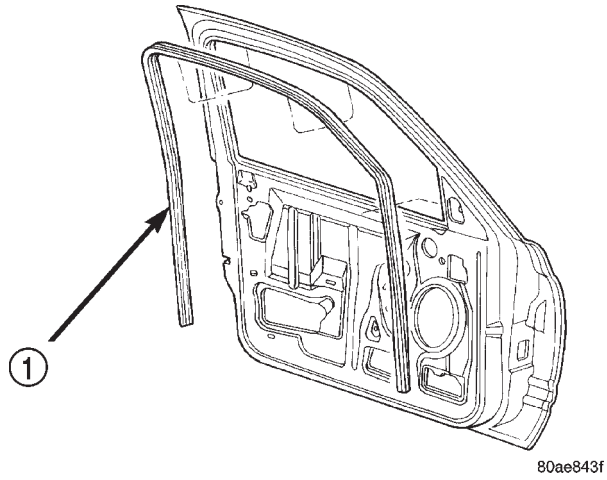

Fig. 4 Door Glass Run Weatherstrip

1 - GLASS RUN WEATHERSTRIP

FRONT DOOR GLASS RUN WEATHERSTRIP (Continued)

INSTALLATION

(1) Press door glass run weatherstrip into channel around window opening (Fig. 4).

(2) Install inner door belt weatherstrip. (Refer to 23 - BODY/WEATHERSTRIP/SEALS/FDR INNER BELT WEATHERSTRIP - INSTALLATION)

FRONT DOOR INNER BELT WEATHERSTRIP

REMOVAL

(1) Remove door trim panel. (Refer to 23 - BODY/DOOR - FRONT/TRIM PANEL - REMOVAL)

(2) Lift inner door belt weatherstrip upward (Fig. 5).

(3) Separate inner door belt weatherstrip from door.

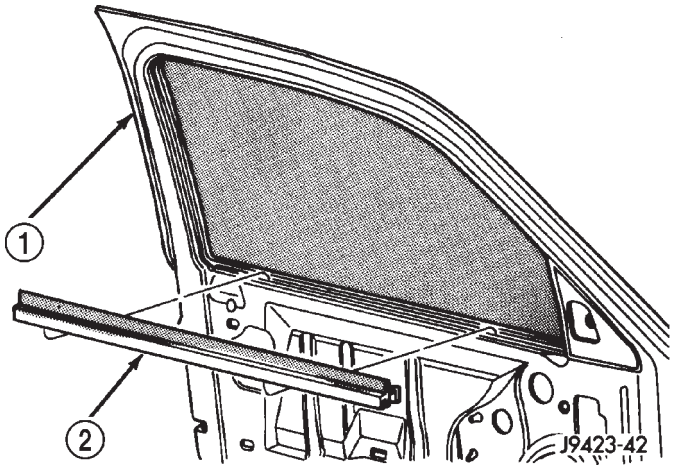

Fig. 5 Inner Door Belt Weatherstrip

1 - DOOR
2 - INNER BELTLINE WEATHERSEAL

INSTALLATION

(1) Position inner door belt weatherstrip on door.

(2) Press inner door belt weatherstrip downward to seat.

(3) Install door trim panel. (Refer to 23 - BODY/DOOR - FRONT/TRIM PANEL - INSTALLATION)

FRONT DOOR OUTER BELT WEATHERSTRIP

REMOVAL

(1) Roll door glass down.

(2) Remove mirror. (Refer to 23 - BODY/EXTERIOR/SIDE VIEW MIRROR - REMOVAL)

(3) Using a hook tool inserted into the end of the belt weatherstrip, lift upward.

(4) Separate outer door belt weatherstrip from door (Fig. 6).

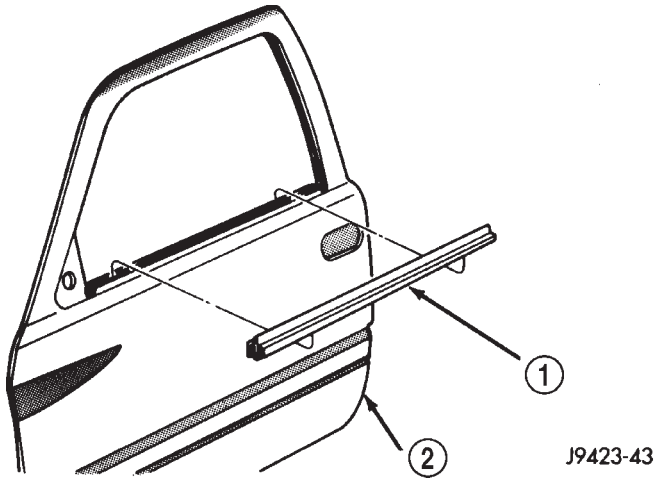

Fig. 6 Outer Door Belt Weatherstrip

1 - OUTER BELTLINE WATHERSTRIP
2 - DOOR

INSTALLATION

(1) Position outer door belt weatherstrip on door.

(2) Press weatherstrip downward to seat.

(3) Install mirror. (Refer to 23 - BODY/EXTERIOR/SIDE VIEW MIRROR - INSTALLATION)

FRONT DOOR UPPER CORNER SEAL

REMOVAL

(1) Remove the push-in fasteners attaching the upper corner seal to the front door (Fig. 7).

(2) Separate the upper corner seal from the door.

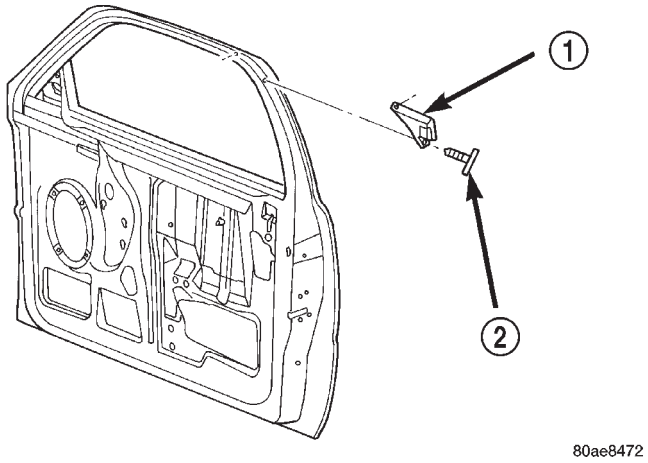

Fig. 7 Upper Corner Seal—Quad Cab

1 - UPPER CORNER SEAL
2 - PUSH—IN FASTENER

FRONT DOOR UPPER CORNER SEAL (Continued)

INSTALLATION

(1) Position the upper corner seal on the door.

(2) Install the push-in fasteners attaching the upper corner seal to the front door (Fig. 7) .

FRONT DOOR SECOND WEATHERSTRIP

REMOVAL

(1) Remove the push-in fasteners attaching the secondary seal to the inner door panel.

(2) Separate the secondary seal from the inner door panel (Fig. 8).

INSTALLATION

(1) Position the secondary seal on the inner door panel.

(2) Install the push-in fasteners attaching the secondary seal to the inner door panel.

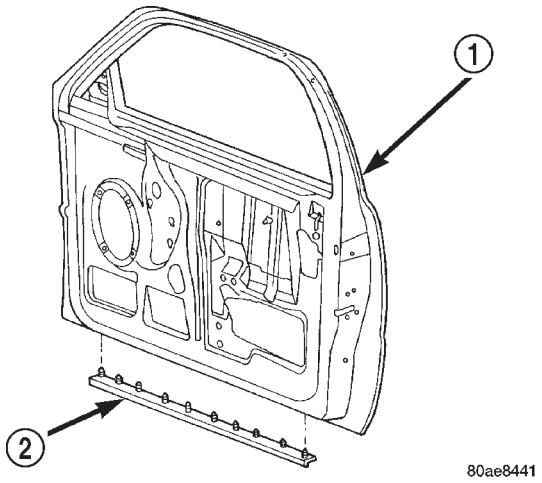

Fig. 8 Front Door Secondary Seal—Quad Cab

1 - FRONT DOOR
2 - SECONDARY SEAL