

FRAME AND BUMPERS

CONTENTS

	page		page
BUMPERS .....	1	FRAME .....	4

BUMPERS

INDEX

	page		page
REMOVAL AND INSTALLATION		REAR BUMPER FASCIA .....	2
FRONT BUMPER/FASCIA .....	1	REAR BUMPER .....	3

REMOVAL AND INSTALLATION

FRONT BUMPER/FASCIA

REMOVAL

- The Grand Cherokee front bumper is actually a bumper fascia incorporated with a lower welded crossmember. The lower crossmember is a fixed welded structure. To replace the crossmember a frame machine should be used to correctly align the crossmember to the unibody.
- (1) Remove grille screws at grille opening reinforcement (GOR) (Fig. 1).
  - (2) If equipped, remove brush guard.
  - (3) Unsnap lower clips at grille. Remove grille from (GOR).
  - (4) Remove turn signals, side markers and headlamps. Refer to Group 8L, Lamps for service information.
  - (5) Remove the retainers at the front fascia (Fig. 2).
  - (6) Remove the plastic rivets at each front wheel well (Fig. 3).
  - (7) Slide the fascia off of the retainer pegs at the side of the fender attach brackets. Using a small screwdriver, pull up on locating tangs under turn signal mounting location.
  - (8) Remove the fascia from the vehicle.

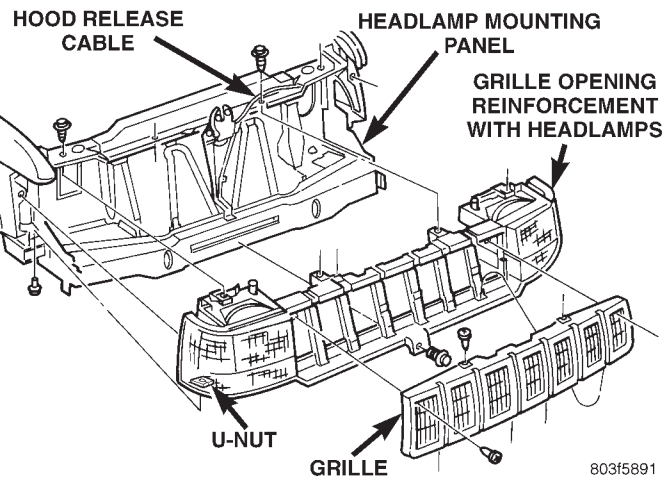


Fig. 1 Grille Removal

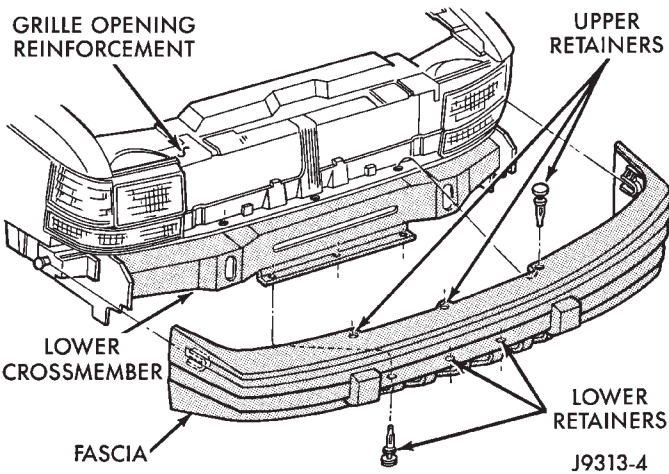
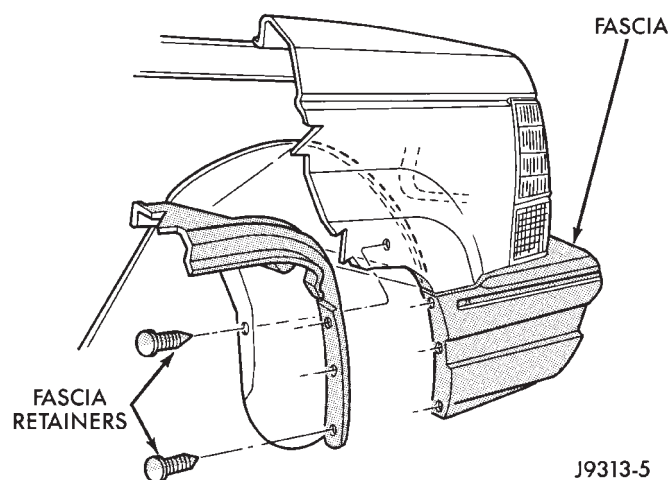


Fig. 2 Lower Fascia Removal

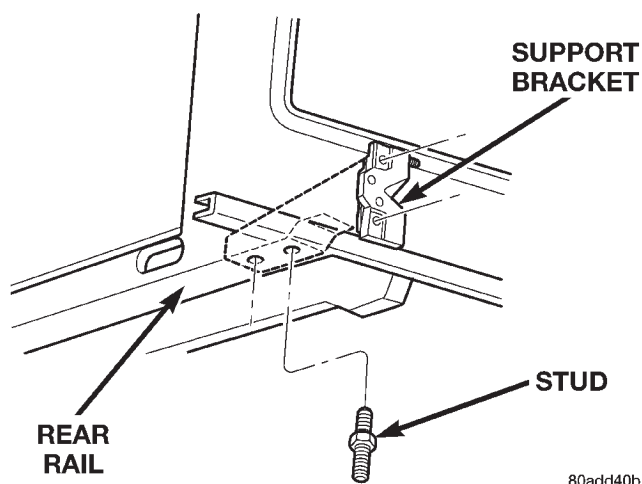
## REMOVAL AND INSTALLATION (Continued)

**Fig. 3 Wheel Well Retainers****INSTALLATION**

- (1) Reverse removal procedure.

**REAR BUMPER FASCIA****REMOVAL**

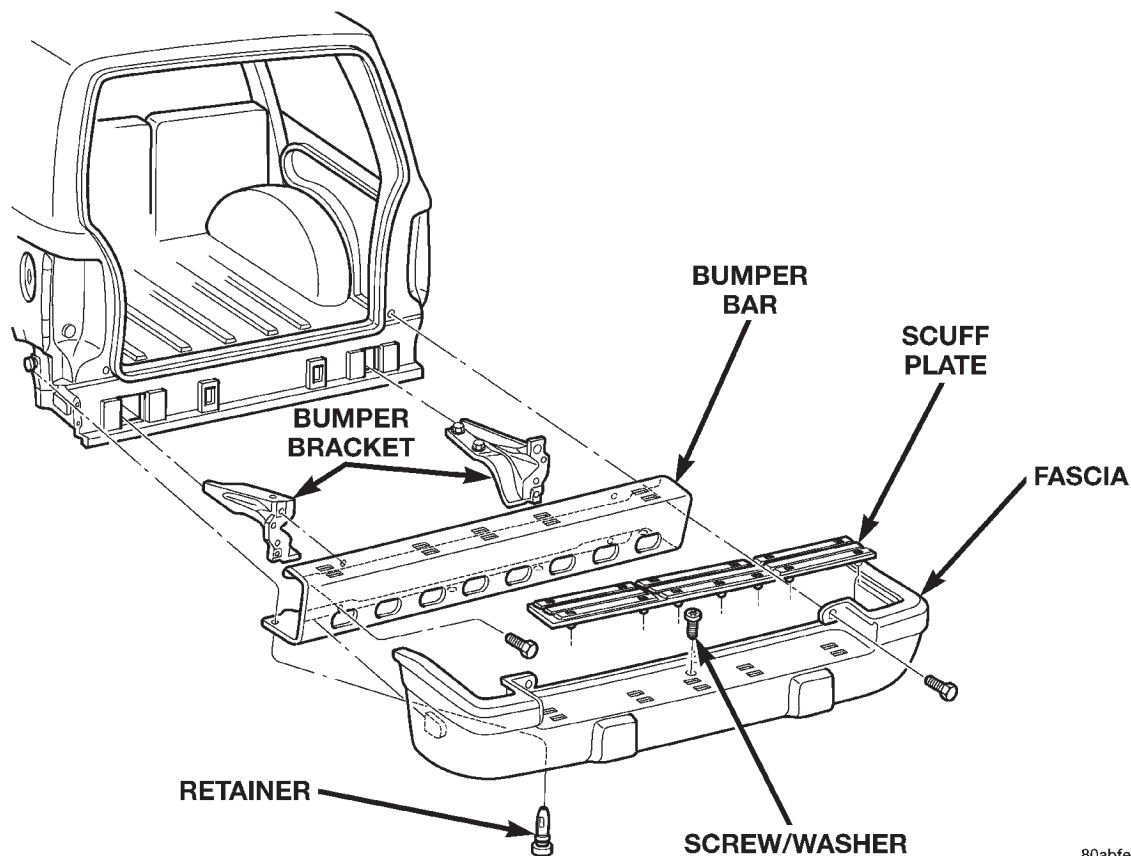
- (1) Raise and support the rear of the vehicle.
- (2) Remove the upper scuff pad from fascia.
- (3) Remove the lower retainers from fascia (Fig. 5).

**Fig. 4 Bumper Support Bracket**

- (4) Remove the push-in retainers located at the rear wheel well on each side.
- (5) Remove the fascia from the bumper.

**INSTALLATION**

- (1) Reverse the removal procedure.

**Fig. 5 Rear Bumper**

## REMOVAL AND INSTALLATION (Continued)

**REAR BUMPER***REMOVAL*

- (1) Remove trailer hitch, if equipped.
- (2) Raise and support the rear of the vehicle.
- (3) Support the bumper.
- (4) Remove push-in retainers at each side rear wheel well.
- (5) Remove the studs that attach the bumper support brackets to the rear rails (Fig. 4).
- (6) Slide the bumper beam/fascia off of the retainer pegs on the side of the lower quarter panel.
- (7) Remove the beam/fascia from the vehicle.
- (8) Remove the bumper support brackets from the bumper (Fig. 5).
- (9) Remove the upper scuff pad from the bumper fascia by squeezing fasteners and pushing through slots.

- (10) Remove the lower retainers from the bumper fascia.

- (11) Remove the bumper fascia from the bumper

*INSTALLATION*

- (1) Install brackets onto bumper beam.
- (2) Install beam/brackets onto vehicle rails finger-tight.
- (3) Install fascia onto bumper assembly.
- (4) Check gaps and fit. Adjust as necessary. Tighten bolts to 56 N·m (41 ft-lbs) torque.
- (5) Install scuff pad.
- (6) If removed, install the trailer hitch.

## FRAME

## INDEX

	page		page
<b>GENERAL INFORMATION</b>		REAR TOW HOOK .....	6
GENERAL INFORMATION .....	4	TRAILER HITCH .....	6
<b>REMOVAL AND INSTALLATION</b>		TRANSFER CASE SKID PLATE .....	5
FRONT SKID PLATE .....	5	<b>SPECIFICATIONS</b>	
FRONT TOW HOOK .....	4	TORQUE SPECIFICATIONS .....	12
FUEL TANK SKID PLATE .....	5	VEHICLE DIMENSIONS .....	6

## GENERAL INFORMATION

## GENERAL INFORMATION

Jeep Grand Cherokee vehicles do not have a conventional frame. They are constructed as a unitized body and frame. Jeep unibodies are constructed from special high-strength steel and coated metals. This process reduces weight and provides strength to withstand the forces applied against structural members. The structural members provide a unibody that has great structural strength.

## REMOVAL AND INSTALLATION

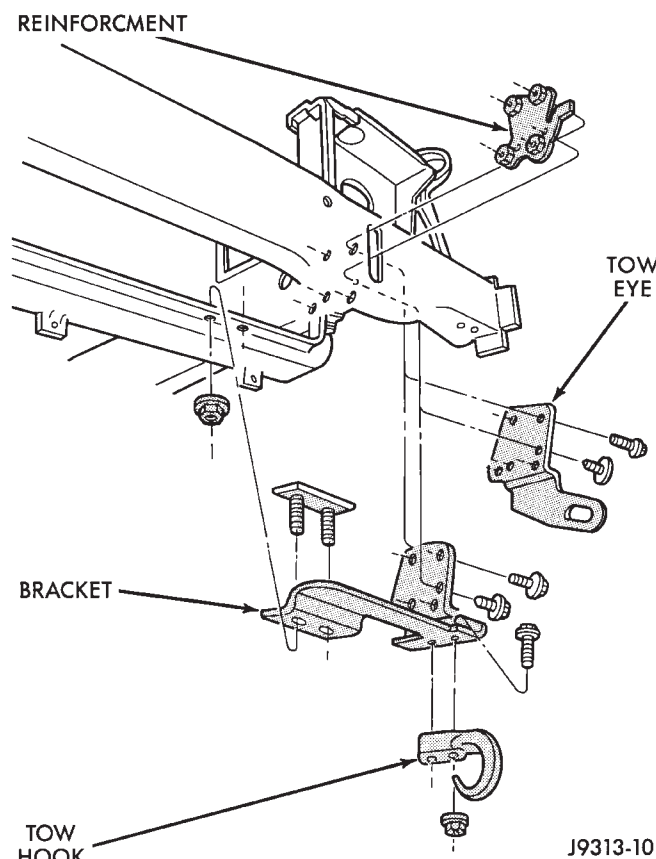
## FRONT TOW HOOK

## REMOVAL

- (1) Remove grille and fascia.
- (2) Remove the nuts and bolts that attach the tow hooks to the lower crossmember (Fig. 1).
- (3) Remove the tow hooks from the lower crossmember.

## INSTALLATION

- (1) Attach tow hook to bracket. Tighten nuts to 95 N·m (70 ft. lbs.) torque.
- (2) Position tow eye bracket at crossmember. Insert bolts thru the bracket and into the reinforcement.
- (3) Position the tow hooks at the lower crossmember.
- (4) Install stud plate from top of crossmember, thru the crossmember and bracket. Tighten all nuts to 67 N·m (50 ft. lbs.) torque.
- (5) Install fascia and grille.



J9313-10

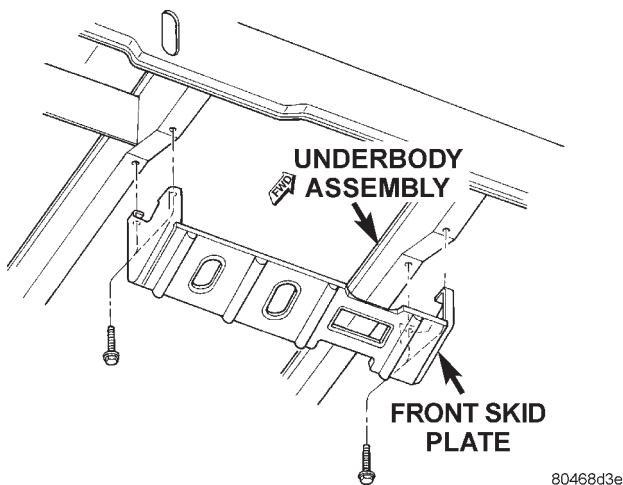
**Fig. 1 Front Tow Hook**

## REMOVAL AND INSTALLATION (Continued)

## FRONT SKID PLATE

## REMOVAL

- (1) Position a support under skid plate.
- (2) Remove the bolts that attach skid plate to frame (Fig. 2).
- (3) Lower the skid plate.

**Fig. 2 Front Skid Plate**

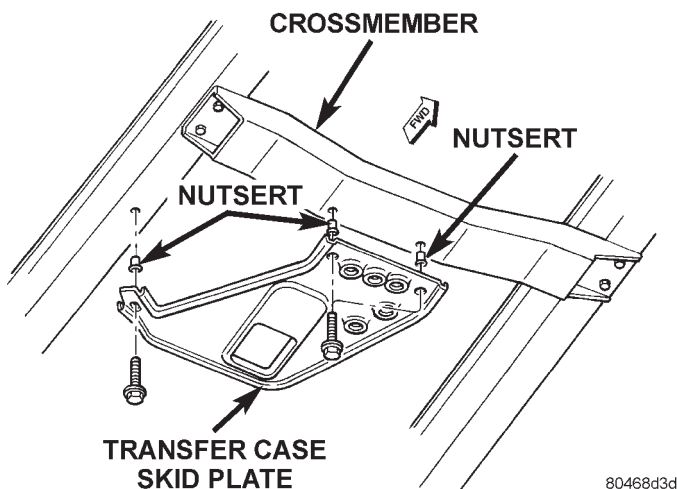
## INSTALLATION

- (1) Position the skid plate on a support.
- (2) Raise it into position
- (3) Install the bolts. Tighten the bolts to 54 N·m (40 ft. lbs.) torque.

## TRANSFER CASE SKID PLATE

## REMOVAL

- (1) Support skid plate.
- (2) Remove bolts that attach skid plate to transmission support crossmember and frame sill (Fig. 3).
- (3) Remove support and skid plate from vehicle.

**Fig. 3 Transfer Case Skid**

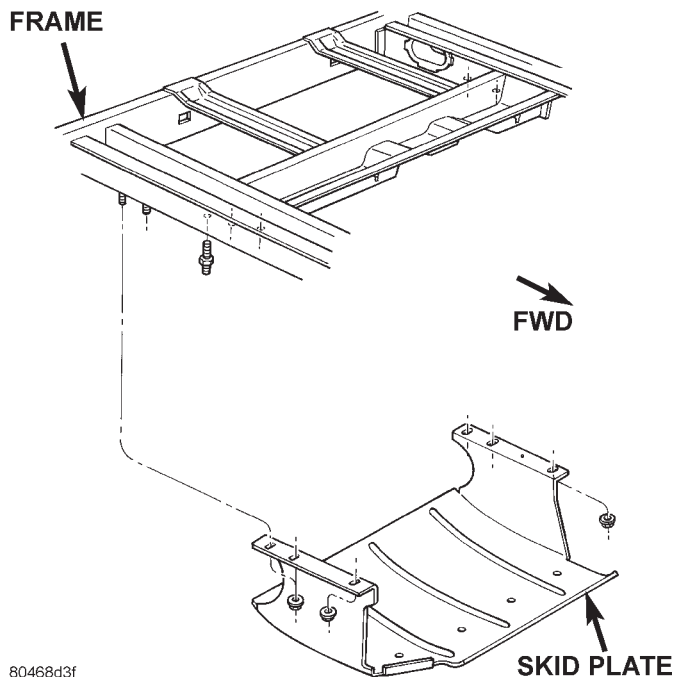
## INSTALLATION

- (1) Install nutserts, if removed.
- (2) Position and support skid plate at the frame sill and transmission support crossmember.
- (3) Attach skid plate to frame sill and crossmember with the bolts. Tighten bolts to 27 N·m (20 ft. lbs) torque.

## FUEL TANK SKID PLATE

## REMOVAL

- (1) Remove trailer hitch.
- (2) Position a support under the fuel tank skid plate.
- (3) Remove nuts attaching skid plate to frame rails (Fig. 4).
- (4) Lower skid plate and remove support.

**Fig. 4 Fuel Tank Skid Plate**

## INSTALLATION

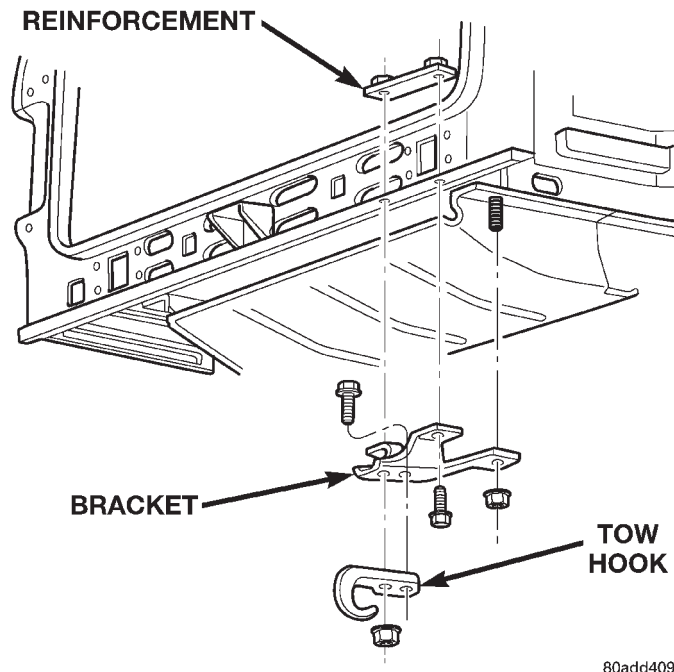
- (1) Position skid plate on a support and raise into position.
- (2) Install nuts attaching skid plate to frame rails. Tighten nuts to 74 N·m (55 ft. lbs.) torque.
- (3) Remove support.
- (4) Install trailer hitch.

## REMOVAL AND INSTALLATION (Continued)

## REAR TOW HOOK

## REMOVAL

- (1) Remove the nuts and bolts that attach the tow hook to the lower crossmember (Fig. 5).
- (2) Remove the tow hook from the lower crossmember.

**Fig. 5 Rear Tow Hook**

## INSTALLATION

- (1) Attach tow hook to bracket. Tighten nut to 95 N·m (70 ft. lbs.) torque.
- (2) Position reinforcement plate on top of body lip.
- (3) Install the bolts and nuts that attach tow hook. Tighten nut to 95 N·m (70 ft. lbs.) torque.

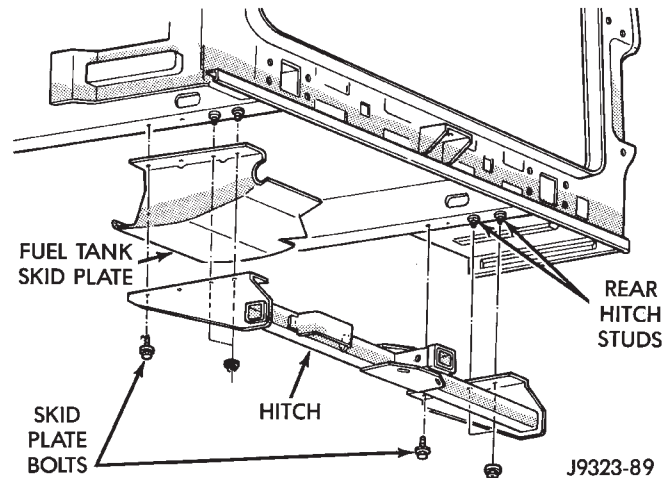
## TRAILER HITCH

## REMOVAL

- (1) If necessary, remove trailer tow wire harness connector from hitch.
- (2) Support hitch.
- (3) Remove nuts that attach the towing tube to frame sills (Fig. 6).

**NOTE:** Reinforcement brackets are retained on frame sills with 4 studs.

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

**Fig. 6 Trailer Hitch**

## INSTALLATION

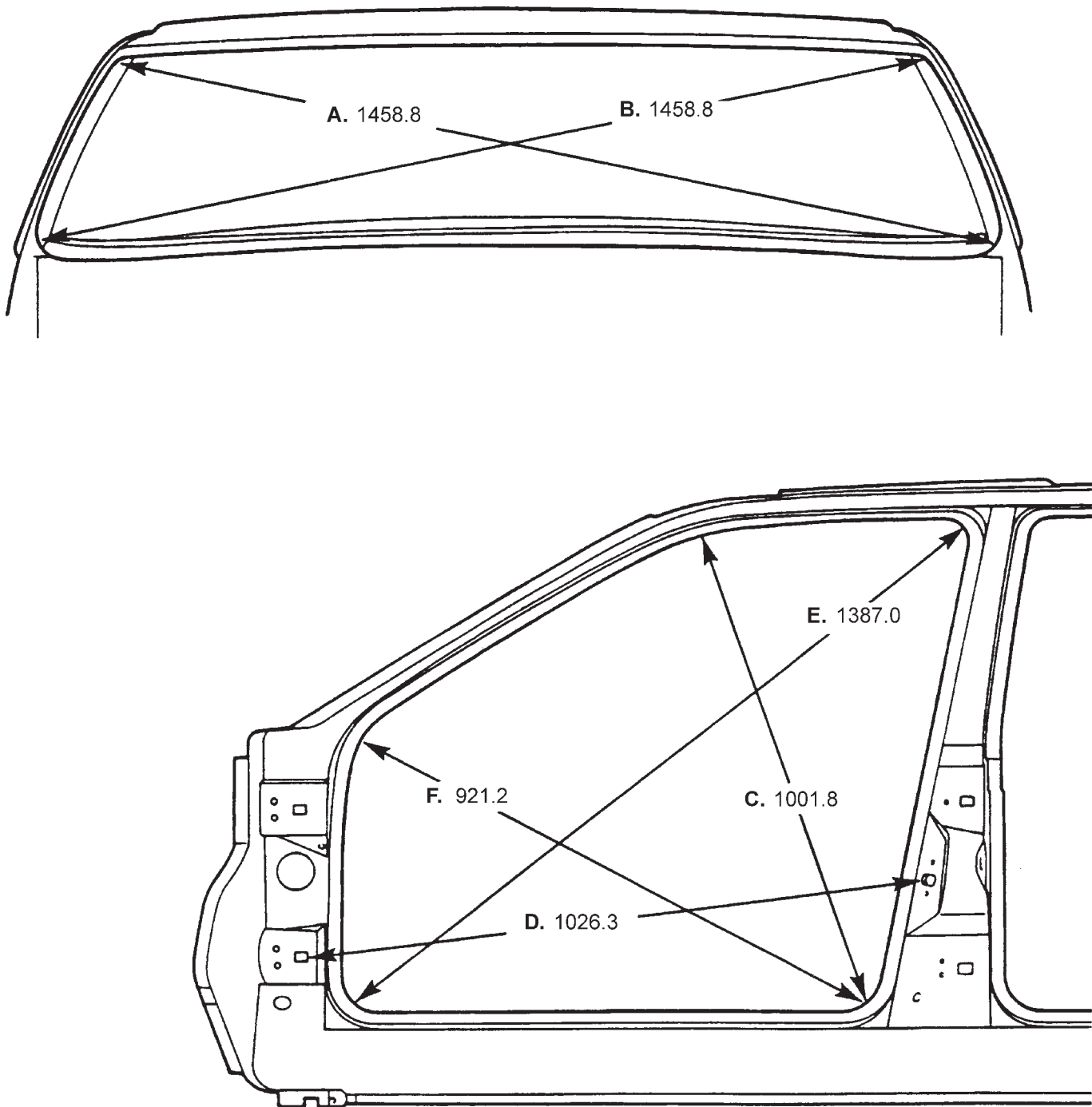
- (1) Place hitch on a lifting device. Raise, position hitch at proper location and support it.
- (2) Loosely install nuts that attach towing tube to vehicle frame sills.
- (3) Position plate bracket and install attaching bolts through vehicle rear crossmember.
- (4) Tighten all attaching bolts/nuts.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

## SPECIFICATIONS

## VEHICLE DIMENSIONS

Frame dimensions are listed in metric scale. All dimensions are from center to center of Principal Locating Point (PLP), or from center to center of PLP and fastener location (Fig. 7), (Fig. 8), (Fig. 9), (Fig. 10) and (Fig. 11)

## SPECIFICATIONS (Continued)



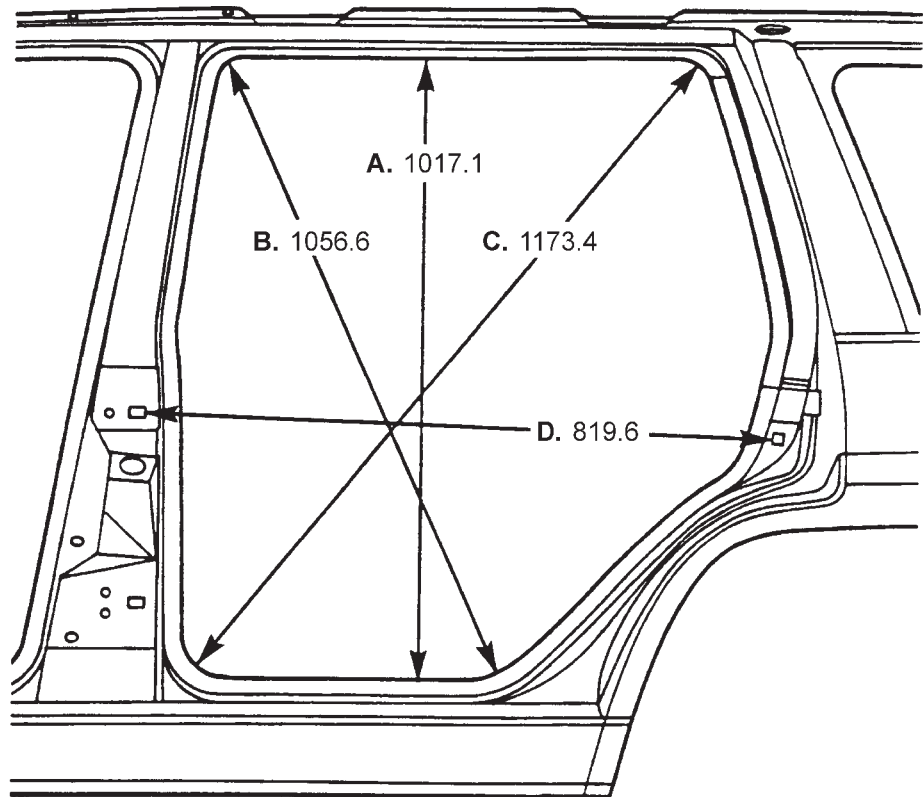
- A. & B.** Center of radius at bottom to center of radius at top
- C.** Center of front door lower rear corner radius to center of A-pillar radius.
- D.** Center of door hinge mount to center of door striker mount.
- E.** Center of radius at bottom front to center of radius at top rear.
- F.** Center of radius at bottom rear to center of radius at lower A-pillar.

**Fig. 7 Vehicle Dimensions—Front/Side View**



## SPECIFICATIONS (Continued)

- A. Quarter panel to Front Outer Body side upper and lower seam.
- B. Center of front upper door radius to center of rear lower door radius.
- C. Center of front lower door radius to center of rear upper door radius.
- D. Rear door hinge mount to rear door striker mount.



- A. Center of upper and lower rear quarter window opening.
- B. Center of radius front lower corner to center of radius rear upper corner.
- C. Center of radius front upper corner to center of radius rear lower corner.

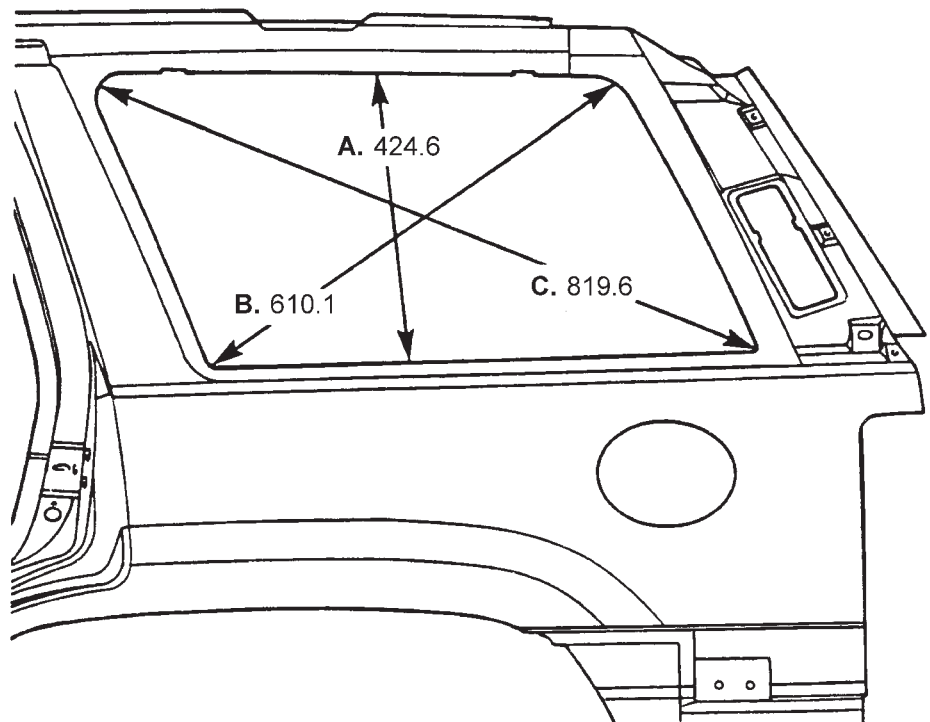
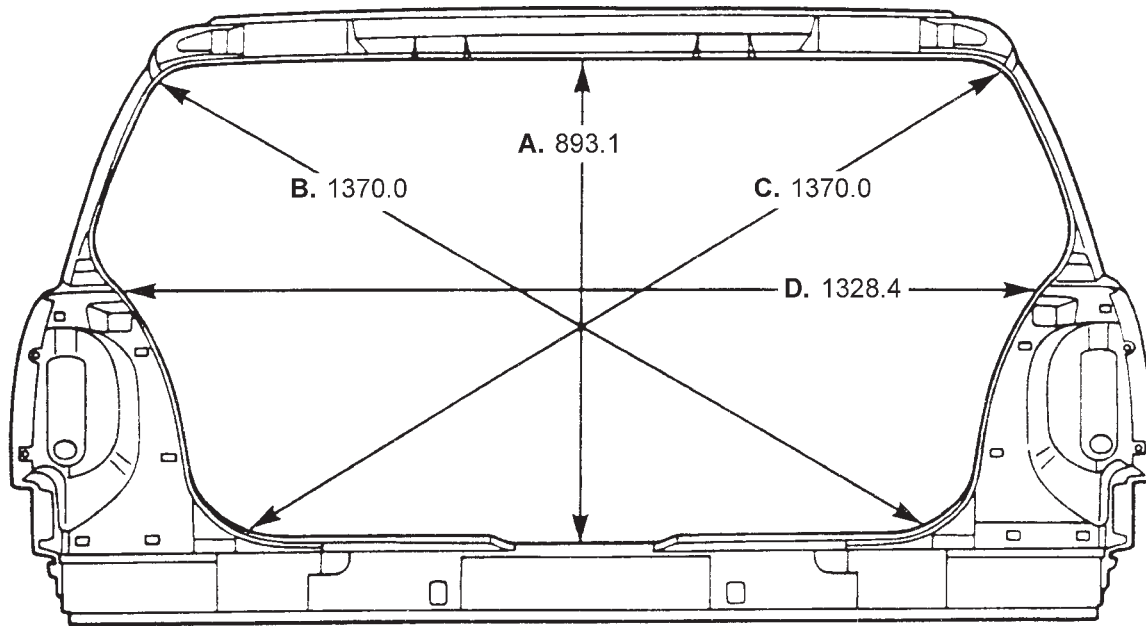


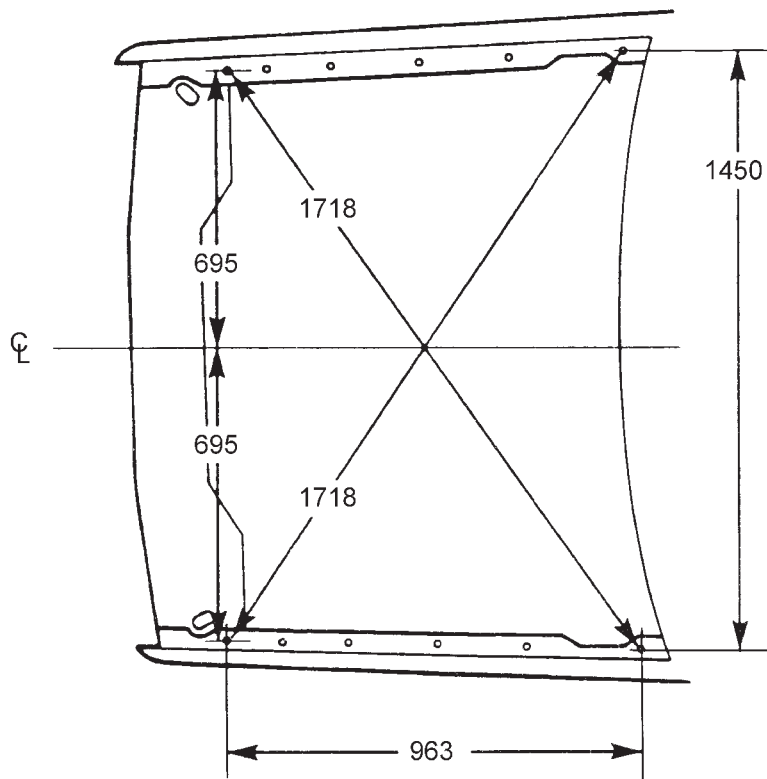
Fig. 8 Vehicle Dimensions—Side View



## SPECIFICATIONS (Continued)

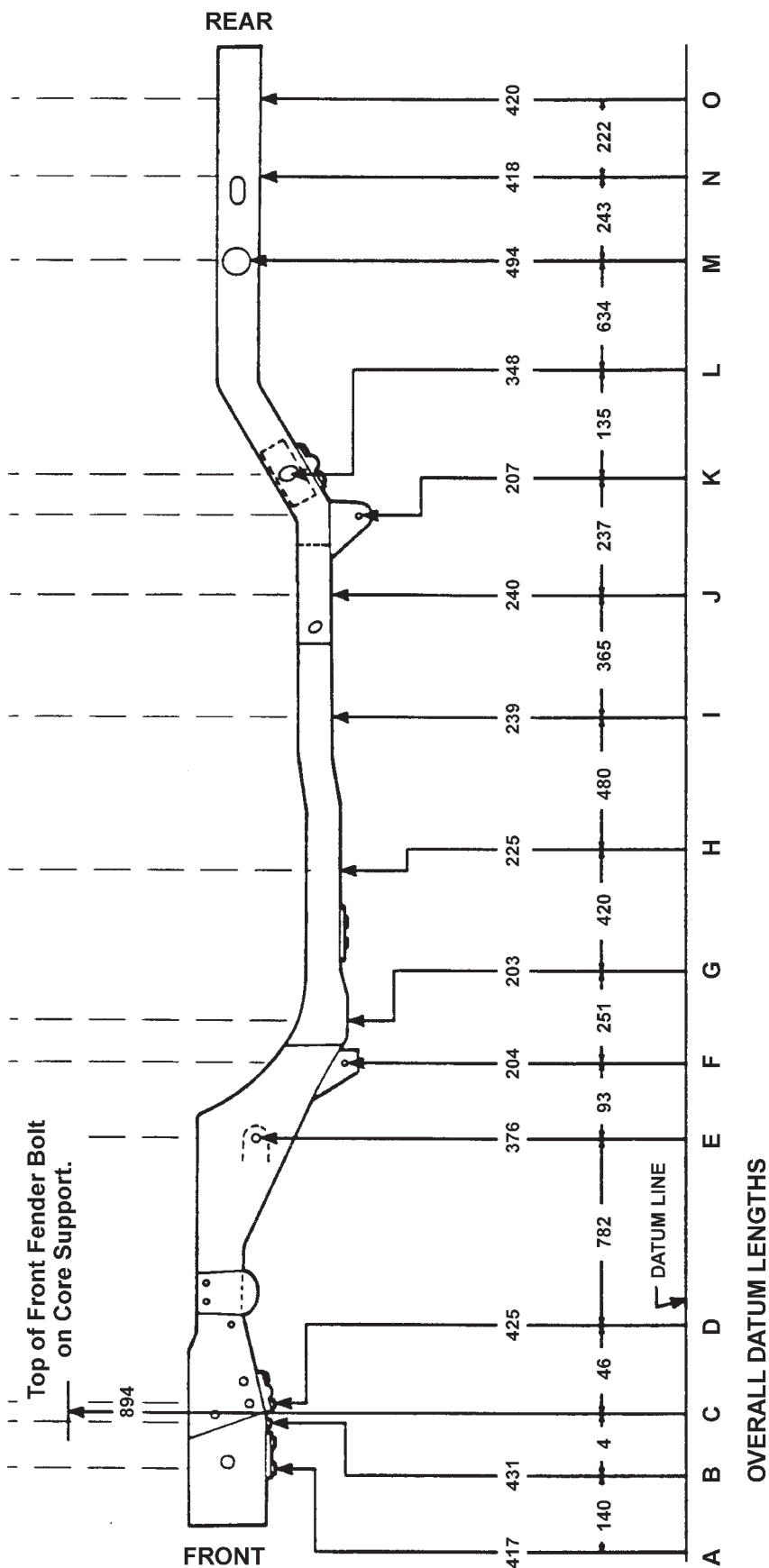


- A.** Center of upper liftgate opening to liftgate striker mount.
- B. & C.** Center of radius upper corner to center of radius lower corner.
- D.** Distance between outer quarter panel to tail lamp mounting panel to inner quarter panel seams.



**Fig. 9 Vehicle Dimensions—Rear View And Engine Compartment**

## SPECIFICATIONS (Continued)



## SIDE VIEW

Datum Height Dimensions are PERPENDICULAR to Datum Plane.  
Datum Length Dimensions are PARALLEL to Centerline of Vehicle,  
and are Measured Center-to-Center.

All measurements in millimeter.

801834a7

Fig. 10 Frame Dimensions—Side View

## SPECIFICATIONS (Continued)

All measurements in millimeter.

**BOTTOM VIEW**

BOTTOM VIEW POINT-TO-POINT DIMENSIONS ARE TAKEN  
WITH TRAM BAR POINTERS SET AT EQUAL LENGTHS.

Bolts and Studs are Measured to Center. Holes are Measured to Closest Edge.

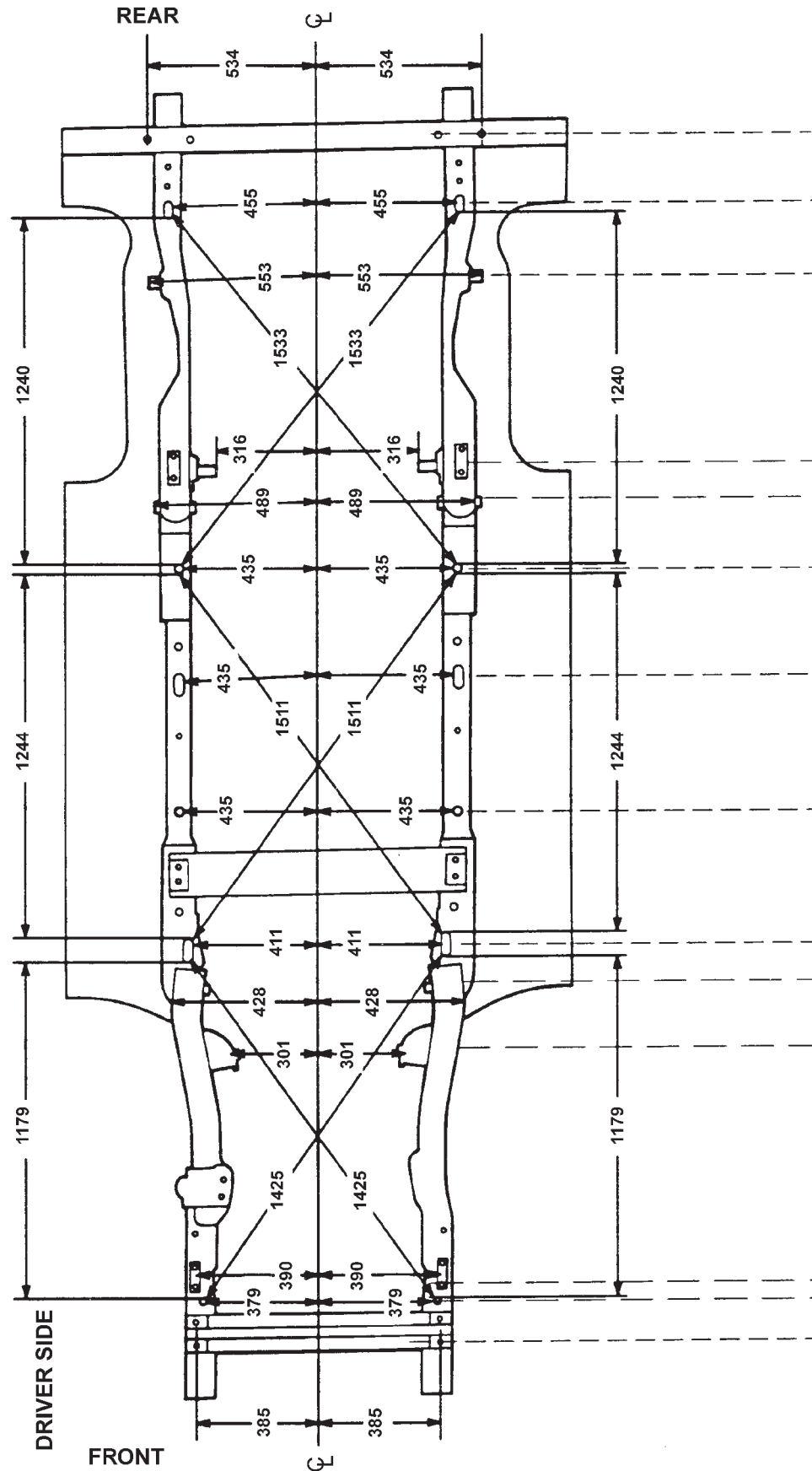


Fig. 11 Frame Dimensions—Bottom View

801834a8

SPECIFICATIONS (Continued)

TORQUE SPECIFICATIONS

DESCRIPTION	TORQUE
Front Tow Hook Nut . . . . .	100 N·m (74 ft. lbs.)
Front Skid Plate Bolt . . . . .	54 N·m (40 ft. lbs.)
Fuel Tank Skid Plate Nuts . . . . .	74 N·m (55 ft. lbs.)
Fuel Tank Skid Plate Mtg Studs . . .	108 N·m (80 ft. lbs.)
Rear Bumper Bolt . . . . .	56 N·m (41 ft. lbs.)
Rear Tow Hook Nut . . . . .	100 N·m (74 ft. lbs.)
Trailer Hitch Nuts/Bolts . . . . .	74 N·m (55 ft. lbs.)
Transfer Case Skid Plate Bolts . . .	27 N·m (20 ft. lbs.)