

FRAME AND BUMPERS

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BUMPERS

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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.

INSTALLATION

- (1) Reverse removal procedure.

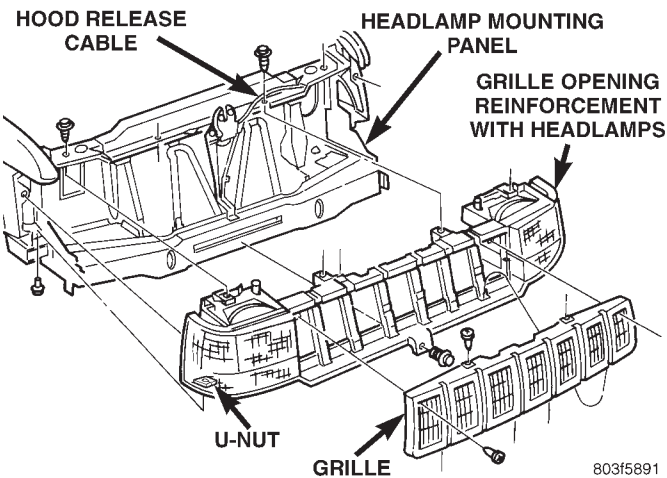


Fig. 1 Grille Removal

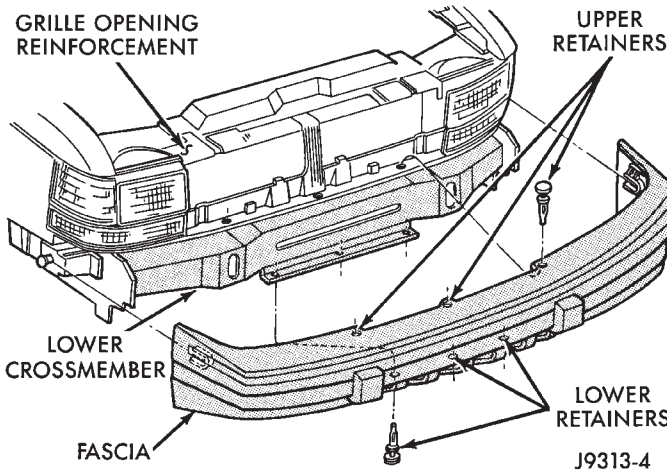
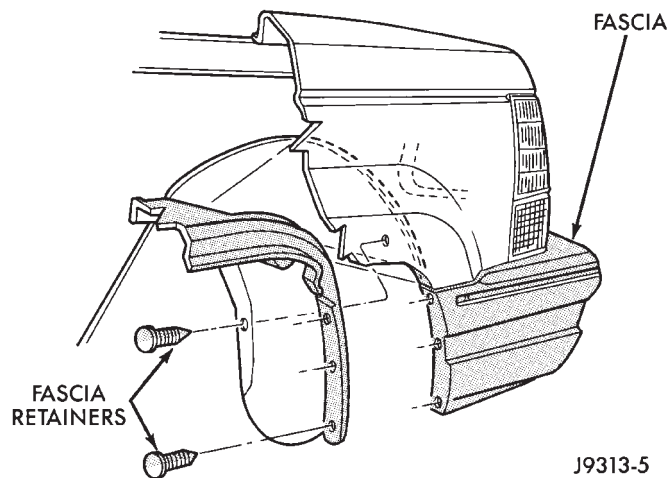


Fig. 2 Lower Fascia Removal

REMOVAL AND INSTALLATION (Continued)

**Fig. 3 Wheel Well Retainers****REAR BUMPER FASCIA****REMOVAL**

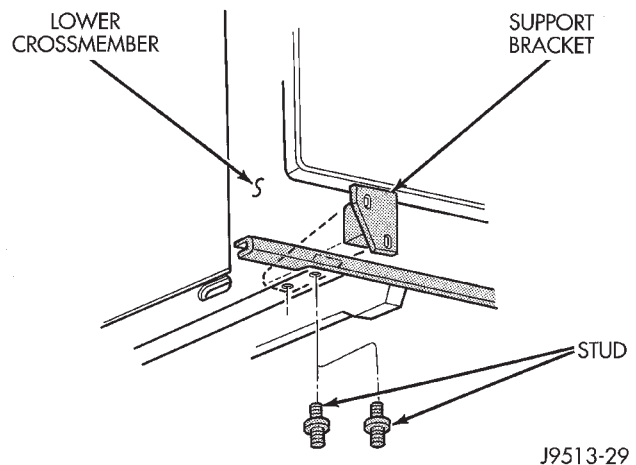
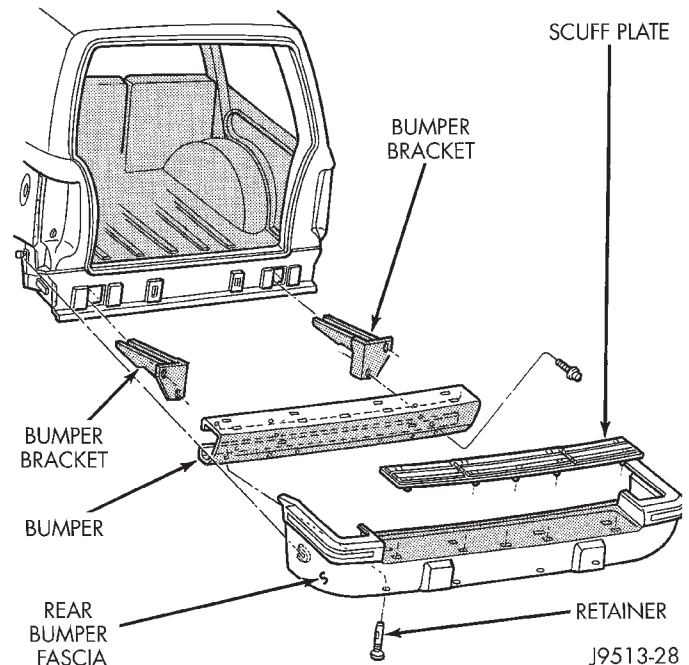
- (1) Raise and support the rear of the vehicle.
- (2) Remove the upper scuff pad from fascia.
- (3) Remove the lower retainers from fascia (Fig. 5).
- (4) Remove the push-in retainers located at the rear wheel well on each side.
- (5) Remove the fascia from the bumper.

INSTALLATION

- (1) Reverse the removal procedure.

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 bolts 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.

**Fig. 4 Bumper Support Bracket****Fig. 5 Bumper Removal****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).
- (5) Install scuff pad.
- (6) If removed, install the trailer hitch.

FRAME

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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 tows hooks at the lower crossmember.
- (4) Install stud plate from top of crosseMBER, thru the crossmember and bracket. Tighten all nuts to 67 N·m (50 ft. lbs.) torque.
- (5) Install fascia and grille.

BRUSH GUARD

REMOVAL

- (1) Remove the bolts attaching the brush guard (Fig. 2) to brush guard brackets (Fig. 3).

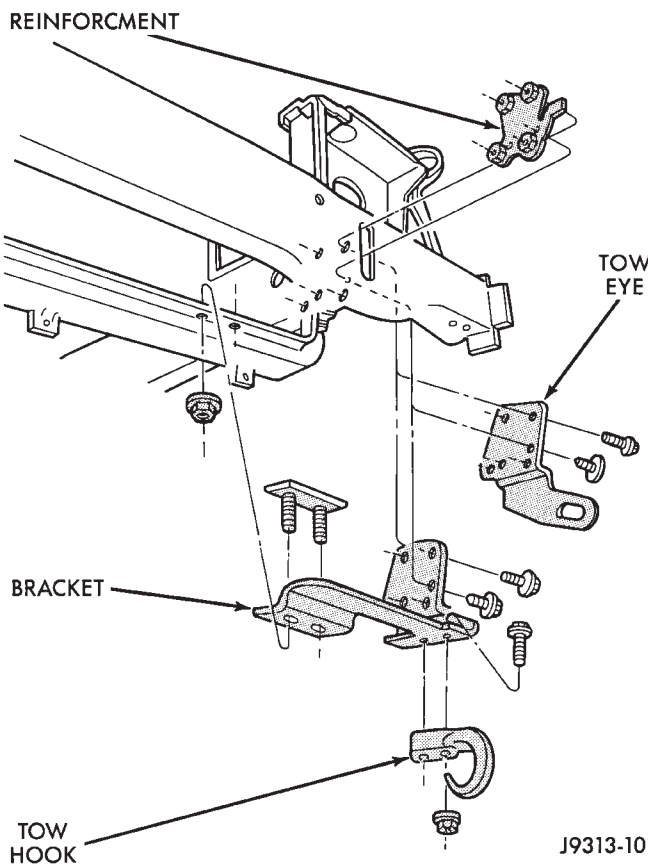


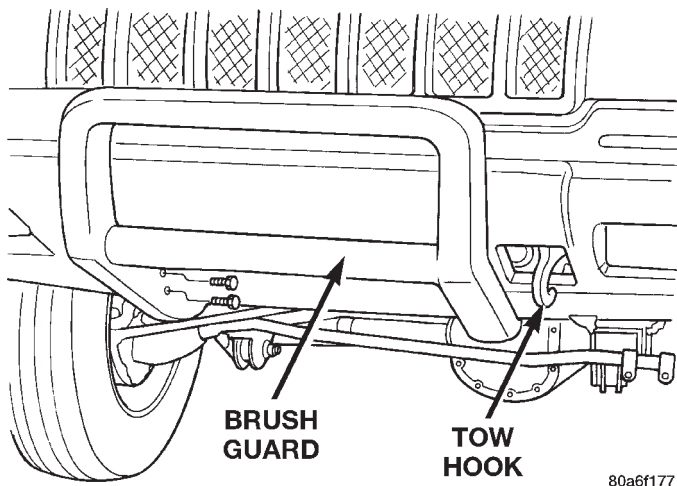
Fig. 1 Front Tow Hook

- (2) Separate the brush guard from the vehicle.

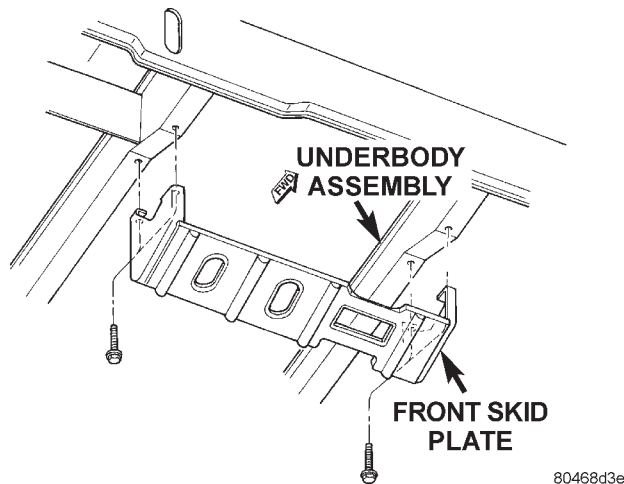
INSTALLATION

- (1) Position the brush guard on the vehicle.
- (2) Loosely install the bolts attaching the brush guard to brush guard brackets.

REMOVAL AND INSTALLATION (Continued)

**Fig. 2 Brush Guard**

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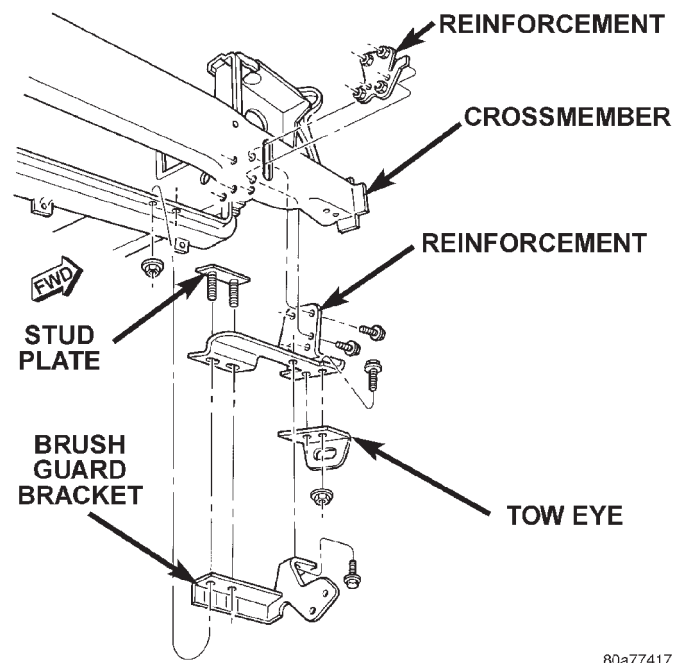
**Fig. 4 Front Skid Plate**

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- (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. 5).
- (3) Remove support and skid plate from vehicle.

**Fig. 3 Brush Guard Bracket**

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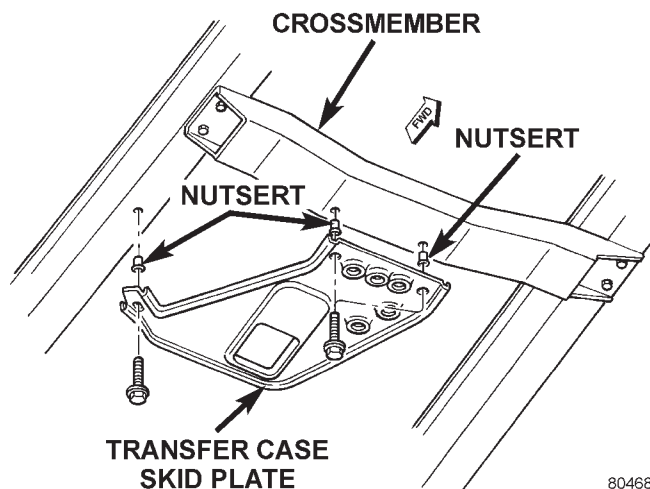
- (3) Push the top of the brush guard inward until it contacts the front fascia.
- (4) Tighten the bolts to 28 N·m (20 ft. lbs.) torque.

FRONT SKID PLATE**REMOVAL**

- (1) Position a support under skid plate.
- (2) Remove the bolts that attach skid plate to frame (Fig. 4).
- (3) Lower the skid plate.

INSTALLATION

- (1) Position the skid plate on a support.
- (2) Raise it into position

**Fig. 5 Transfer Case Skid**

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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.

REMOVAL AND INSTALLATION (Continued)

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. 6).
- (4) Lower skid plate and remove support.

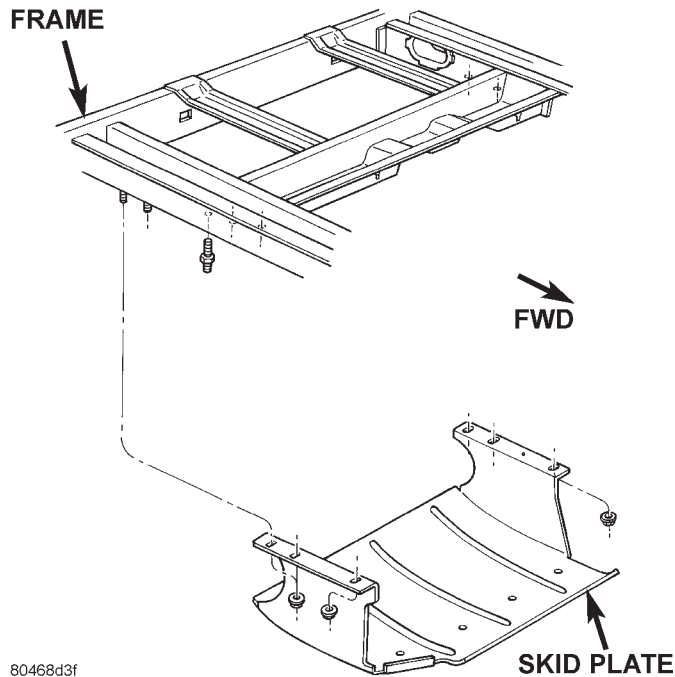


Fig. 6 Fuel Tank Skid Plate

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.

REAR TOW HOOK

REMOVAL

- (1) Remove the nuts and bolts that attach the tow hook to the lower crossmember (Fig. 7).
- (2) Remove the tow hook from the lower crossmember.

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.

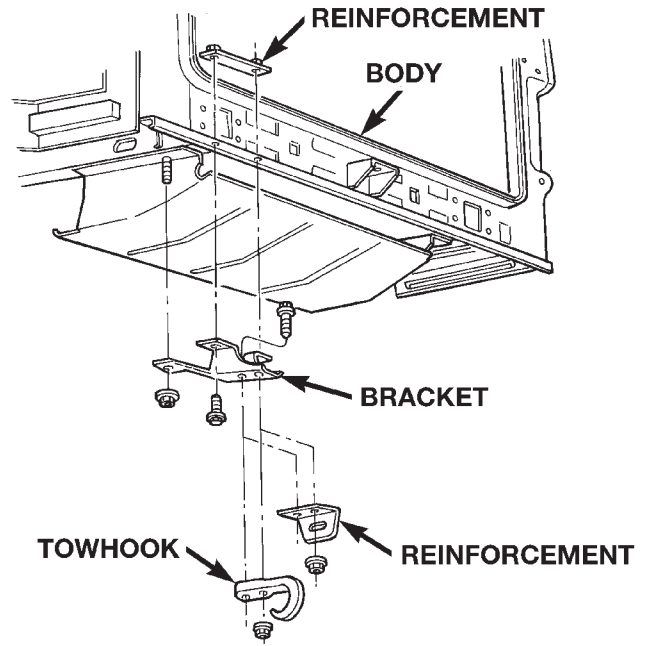


Fig. 7 Rear Tow Hook

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. 8).

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.

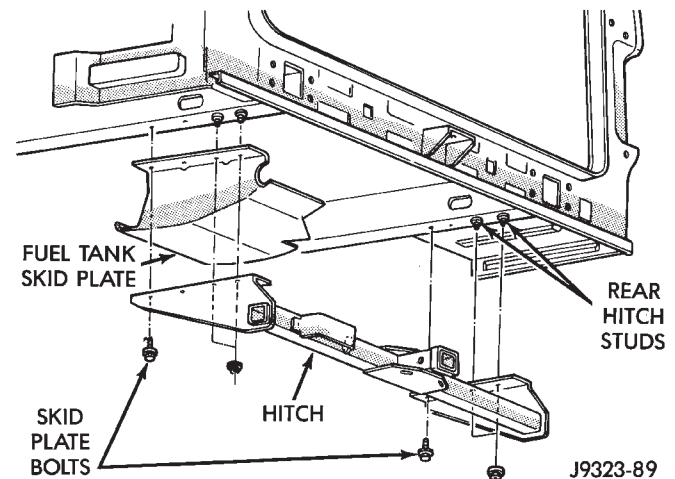


Fig. 8 Trailer Hitch

REMOVAL AND INSTALLATION (Continued)

INSTALLATION

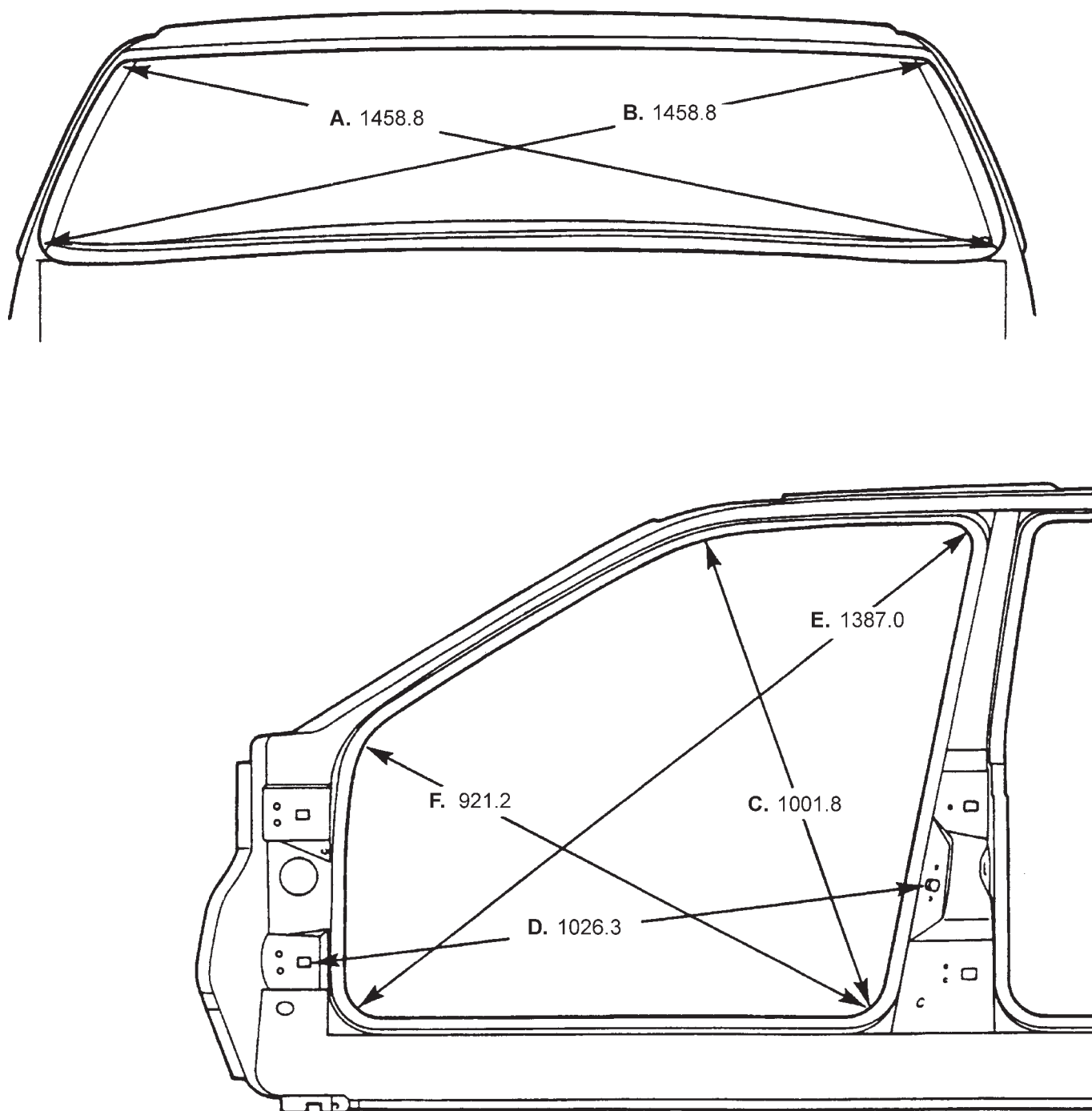
- (1) Place hitch on a lifting device. Raise, position hitch at proper location and support it.
- (2) Loosely install nuts that attach towing tube to vehicle frame sills.
- (3) Position plate bracket and install attaching bolts through vehicle rear crossmember.
- (4) Tighten all attaching bolts/nuts.
- (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. 9), (Fig. 10), (Fig. 11), (Fig. 12) and (Fig. 13)

SPECIFICATIONS (Continued)



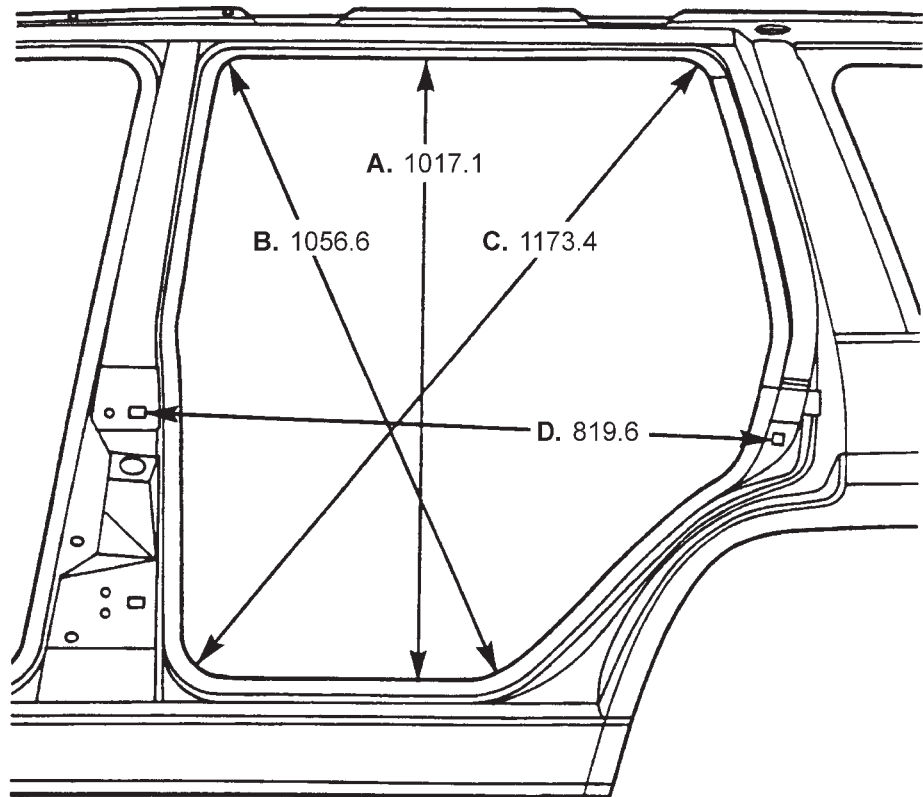
- A. & B. Center of radius at bottom to center of radius at top
- C. Center of front door lower rear corner radius to center of A-pillar radius.
- D. Center of door hinge mount to center of door striker mount.
- E. Center of radius at bottom front to center of radius at top rear.
- F. Center of radius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

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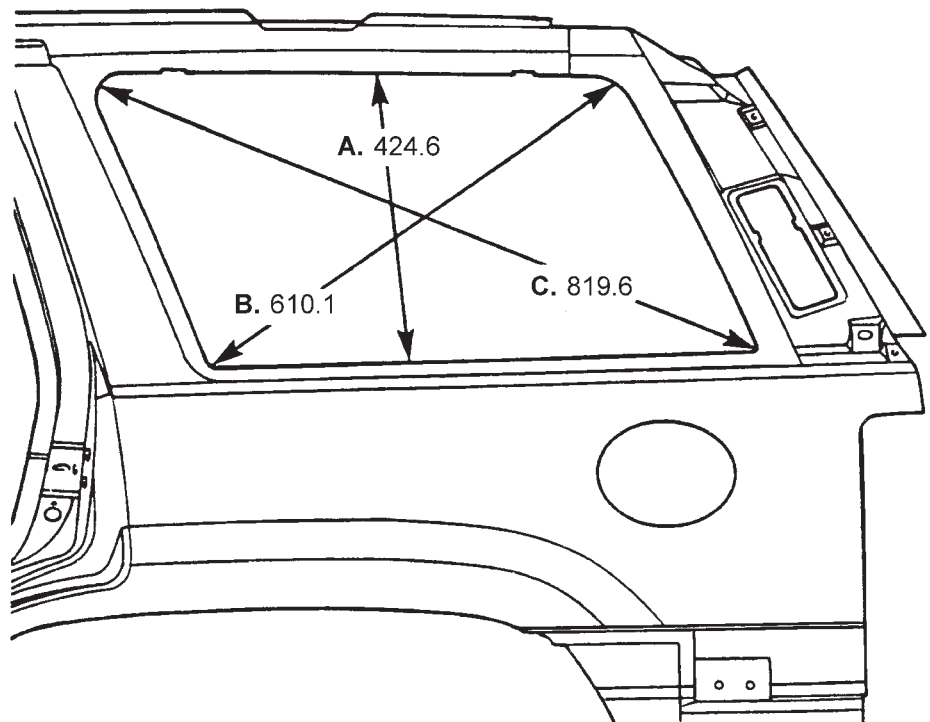
Fig. 9 Vehicle Dimensions—Front/Side View

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.



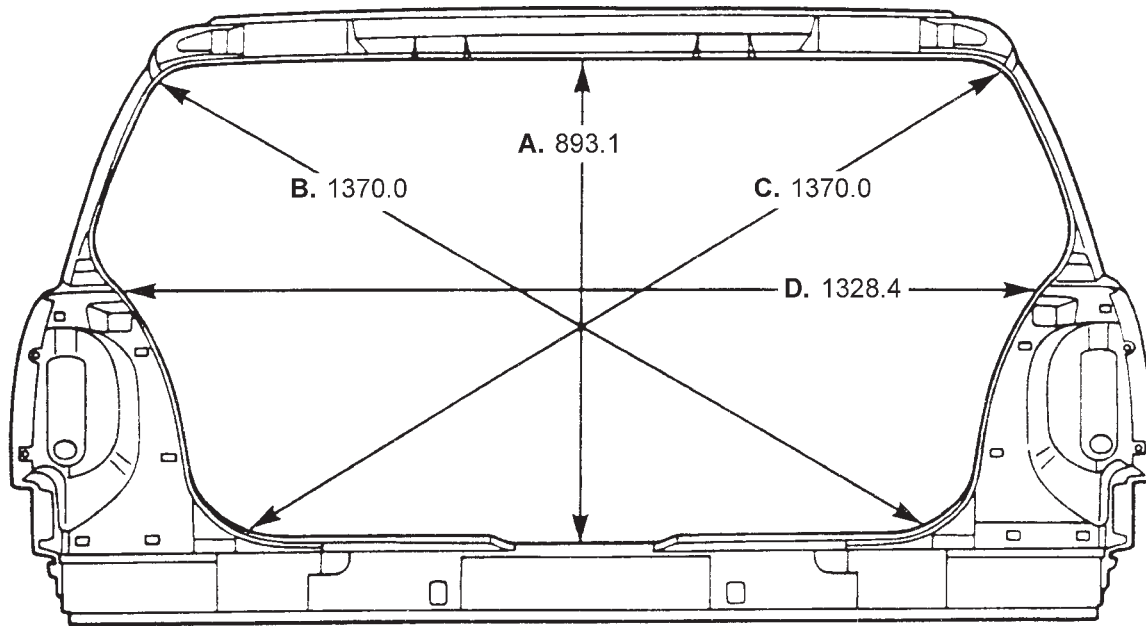
- A. Center of upper and lower rear quarter window opening.
- B. Center of radius front lower corner to center of radius rear upper corner.
- C. Center of radius front upper corner to center of radius rear lower corner.



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Fig. 10 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.

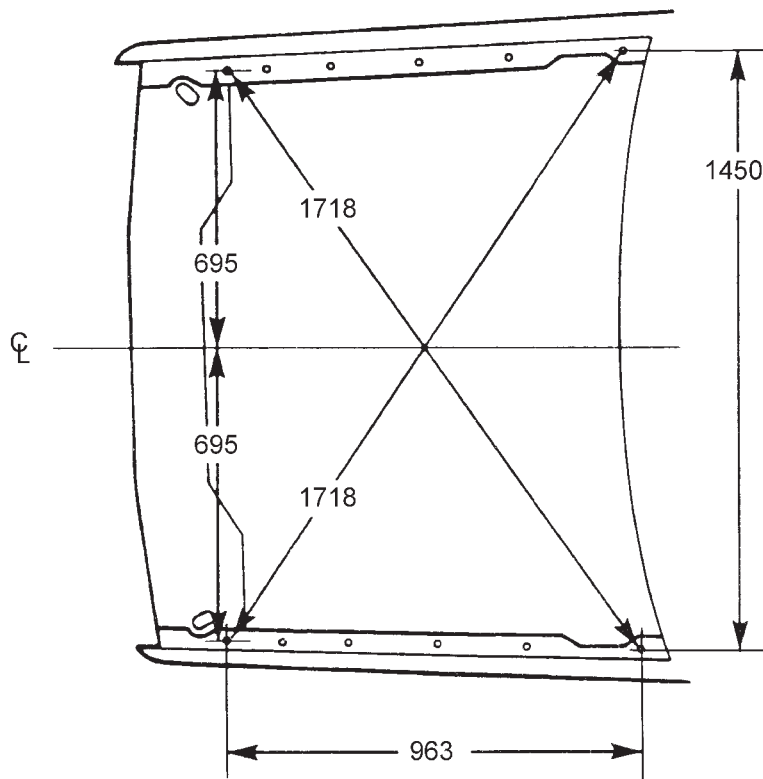
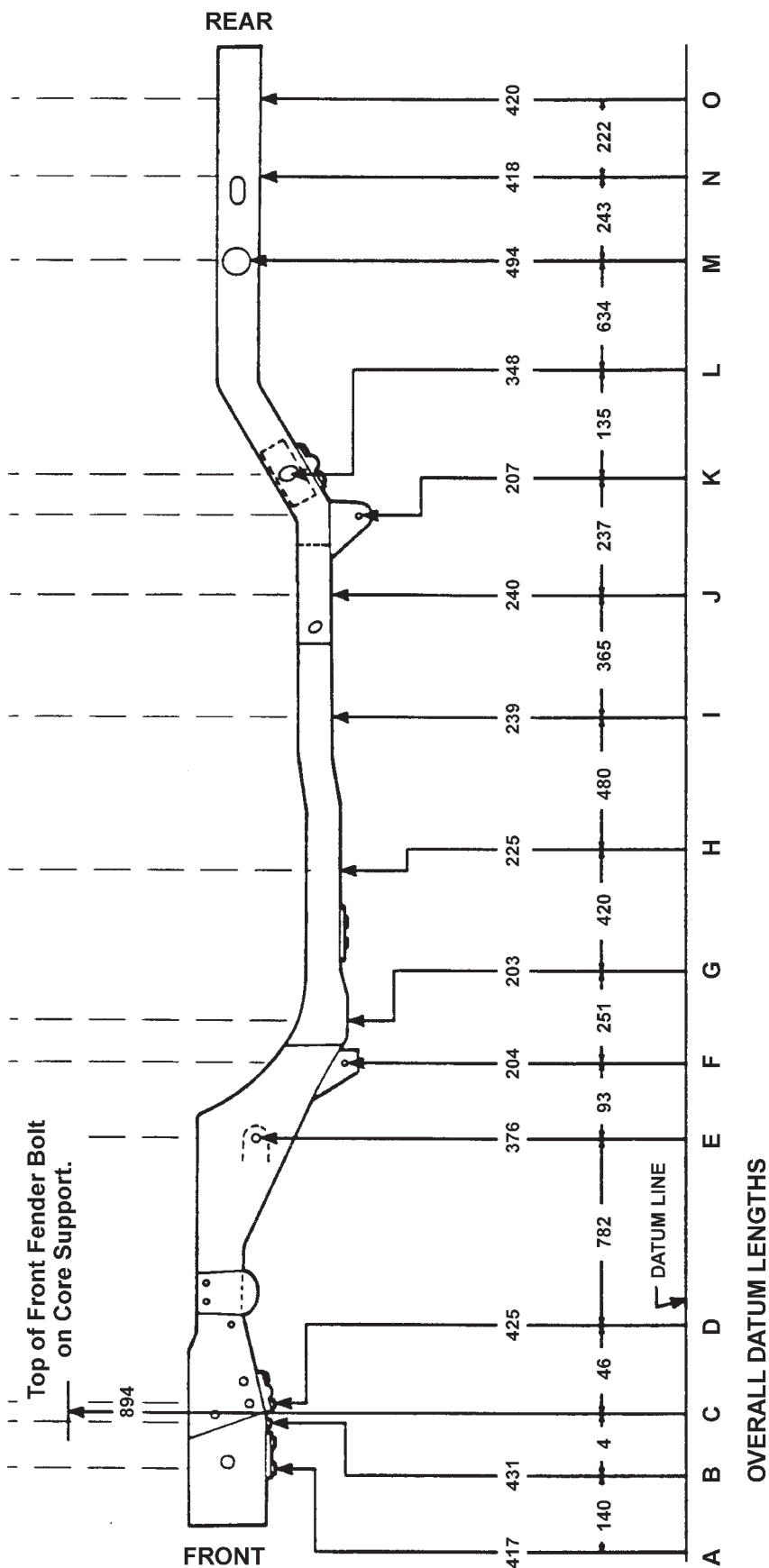


Fig. 11 Vehicle Dimensions—Rear ViewAnd Engine Compartment

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.

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Fig. 12 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.

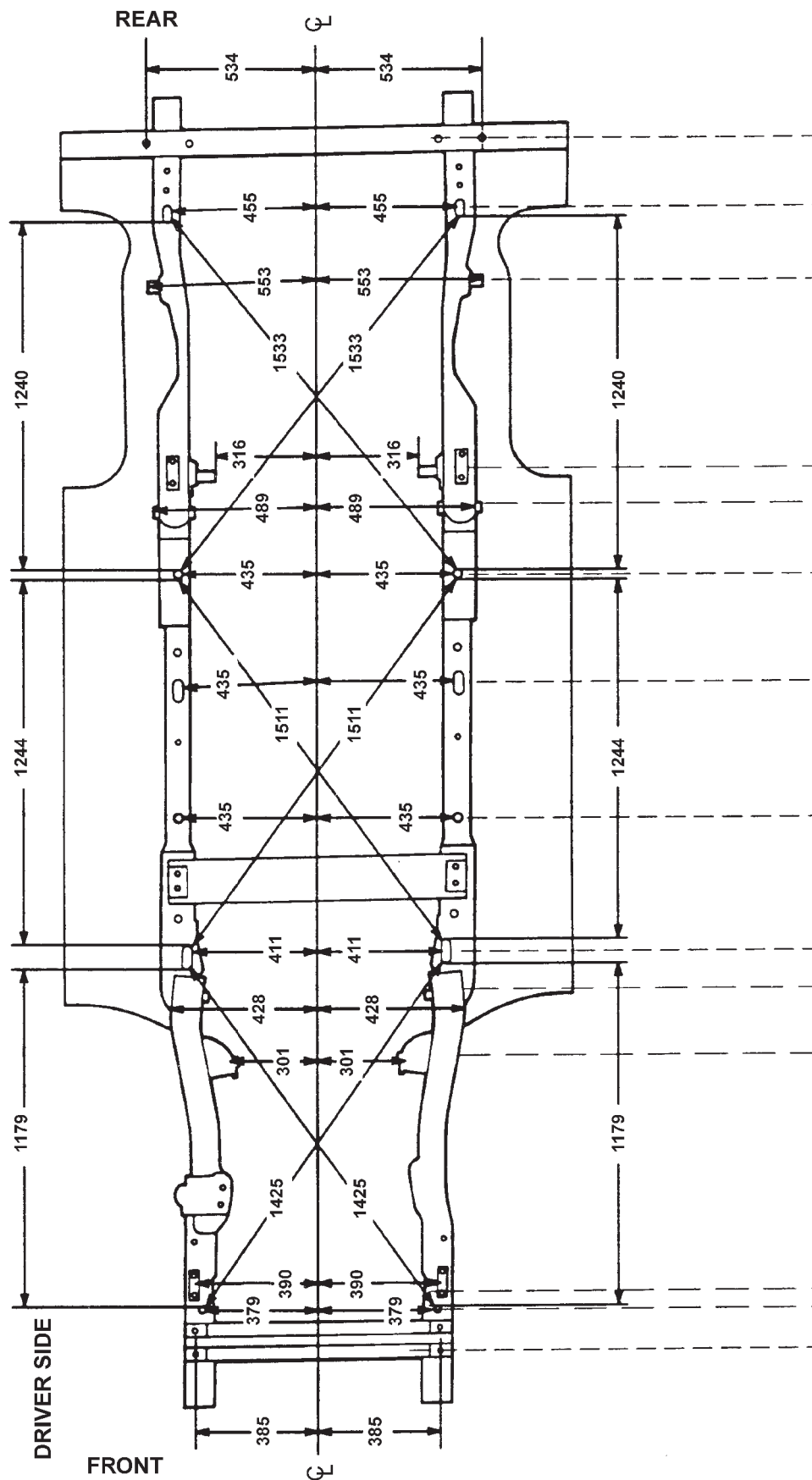


Fig. 13 Frame Dimensions—Bottom View

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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.)