

Howell, Rosa (NHTSA)

From: Hershman, Larry (NHTSA)
Sent: Tuesday, January 12, 2010 9:28 AM
To: Howell, Rosa (NHTSA)
Cc: Yon, Scott (NHTSA)
Subject: FW: Jeep Grand Cherokee Fuel System Petition

Rosa,
Here is another supplement to the Jeep Grand Cherokee petition, file # DP09-005, for inclusion into Artemis.
Thanks,
Larry

From: Demeter, Kathleen (NHTSA)
Sent: Monday, January 11, 2010 11:47 AM
To: Hershman, Larry (NHTSA)
Subject: FW: Jeep Grand Cherokee Fuel System Petition

[Another submission](#)

From: Clarence Ditlow [mailto:cmdiii@autosafety.org]
Sent: Friday, January 08, 2010 9:58 PM
To: Demeter, Kathleen (NHTSA)
Cc: Yon, Scott (NHTSA)
Subject: Jeep Grand Cherokee Fuel System Petition

Please include and consider in our petition the attached drawings scanned from the Mitchell International 'Unibody and Chassis Frame Specifications and Dimensions Manual.' These manuals are used routinely inside the automotive OEM and repair/service industry.

Please note the mark-ups of the Jeep frame section drawings that depict the location (or lack-thereof) of the fuel filler tube pass-thru holes. The yellow comment boxes have been added only to highlight the subject locations.

At the Center's request, Paul Sheridan has personally inspected many model-year versions of Jeep Cherokee and Jeep Grand Cherokee vehicles to confirm that the fuel filler tube is made of rubber and passes through the frame rail in 1993-98 Jeep Grand Cherokees and under the frame rail in 1999-04 Jeep Grand Cherokees. We are sending out another investigator to examine Grand Cherokees in Florida to confirm this information. Also attached are detailed photos of the steel filler neck, the rubber filler tube and the plastic tank in the Grand Cherokee examined by MVFRI.

This is a defective design of the fuel filler tube whose performance is not measured by FMVSS 301.

Please do not hesitate to contact me as needed.

Paul Sheridan

Clarence Ditlow
Executive Director
Center for Auto Safety
1825 Connecticut Ave NW
Washington DC 20009

DP09-005
ATTACHMENT

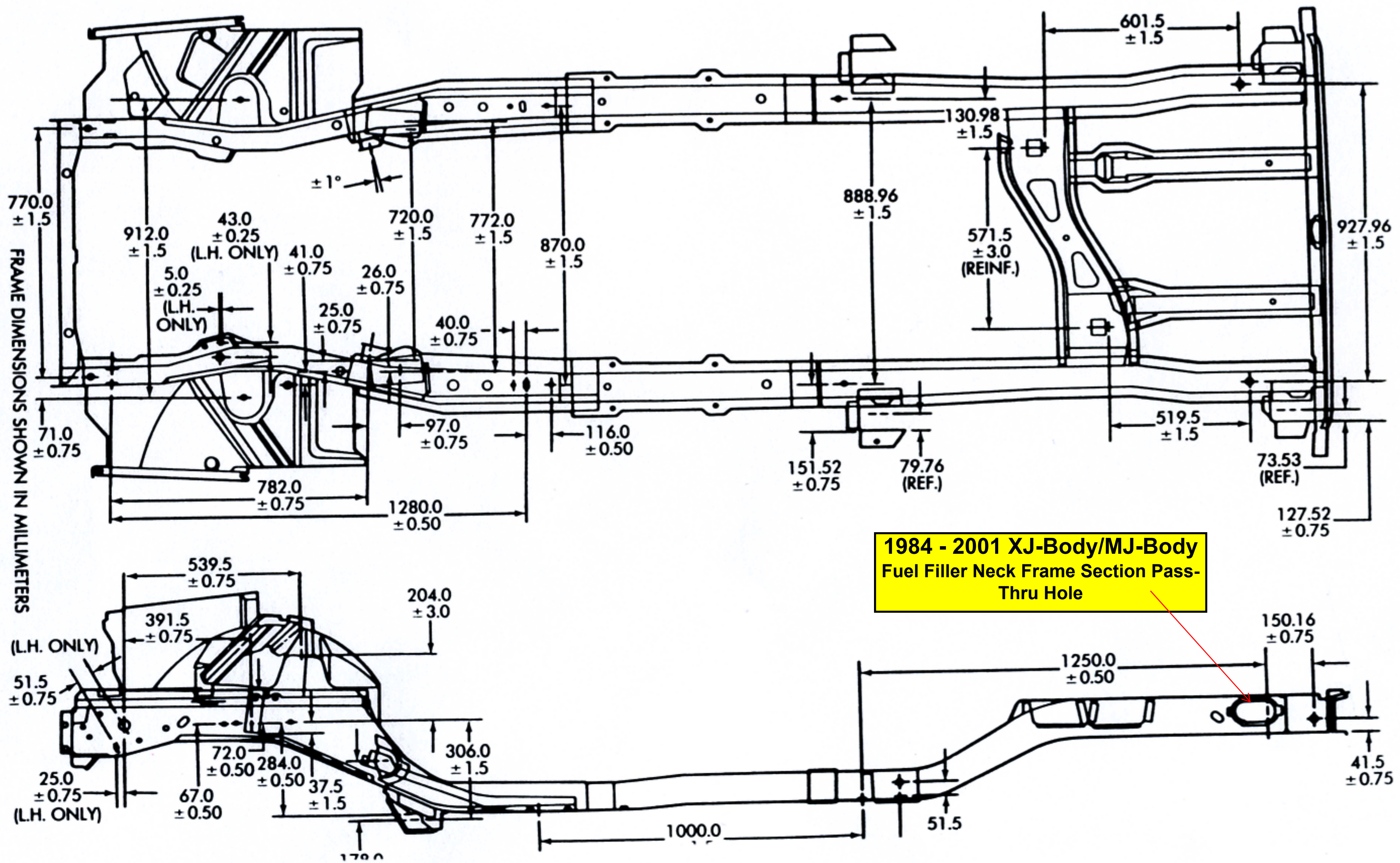


Fig. 2 Frame Alignment Reference Dimensions—XJ Vehicles

1984 - 2001 XJ-Body/MJ-Body
Fuel Filler Neck Frame Section Pass-Thru Hole

1996 JEEP GRAND CHEROKEE 2WD/4WD

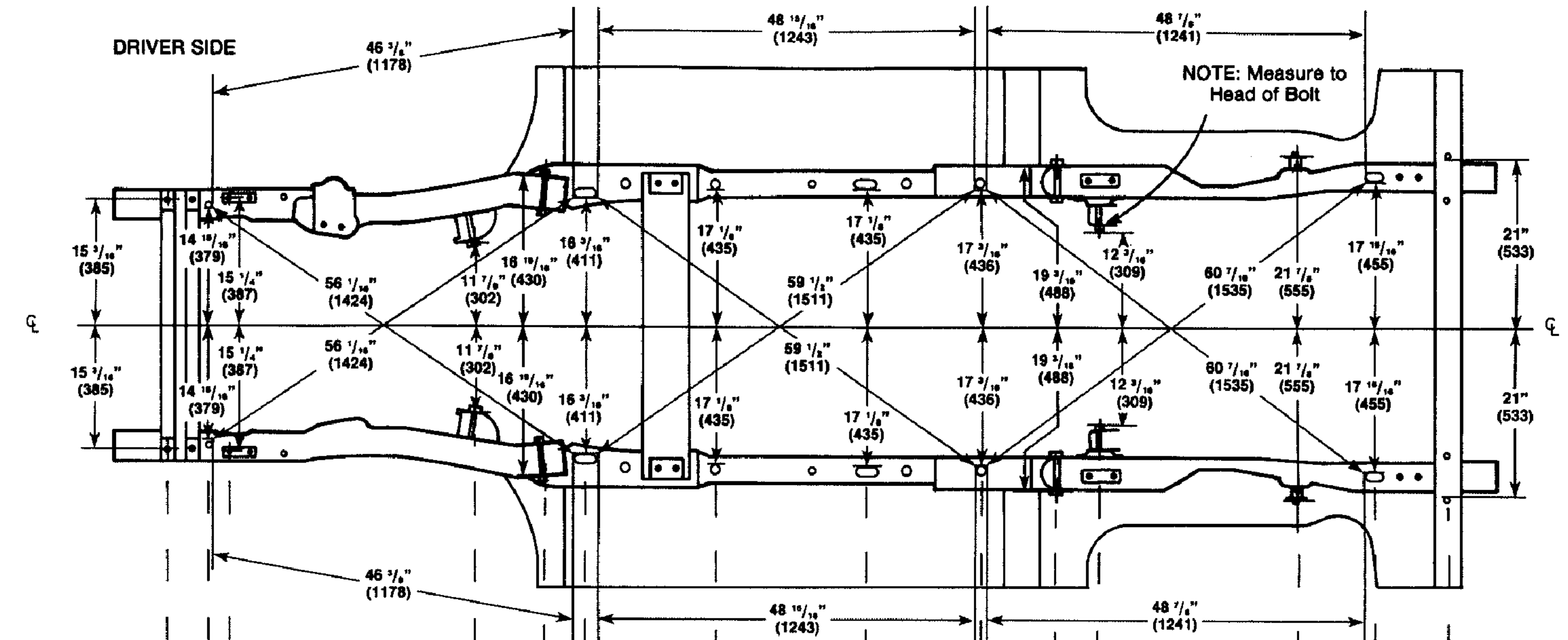
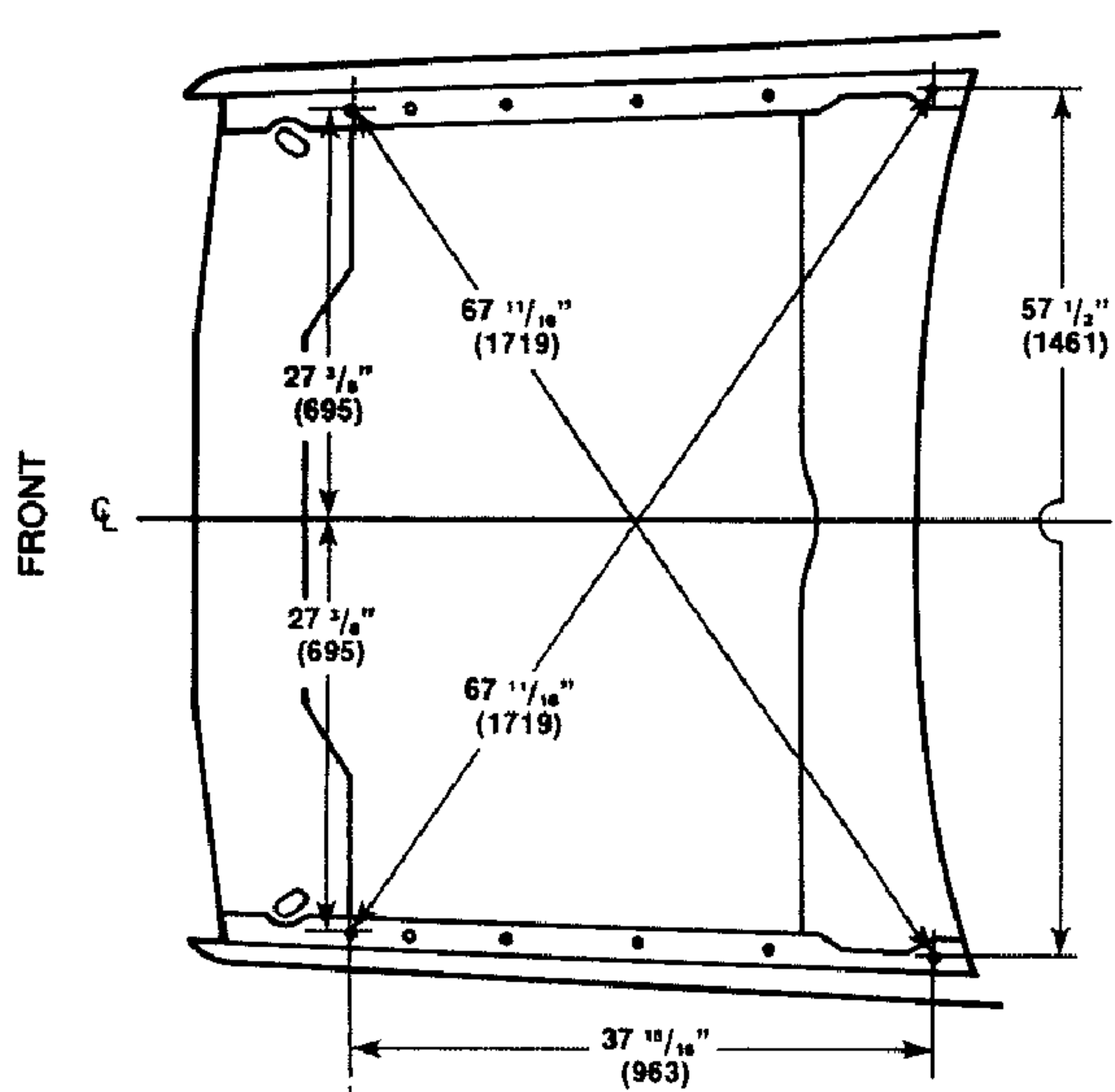
105 15/16" (2691mm) WHEELBASE

UNDERHOOD VIEW

UNDERHOOD 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.

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.



1993-1998 ZJ-Body:
Fuel Filler Tube
Frame Section
Pass-Thru Hole

See "C" for Datum Height and Length

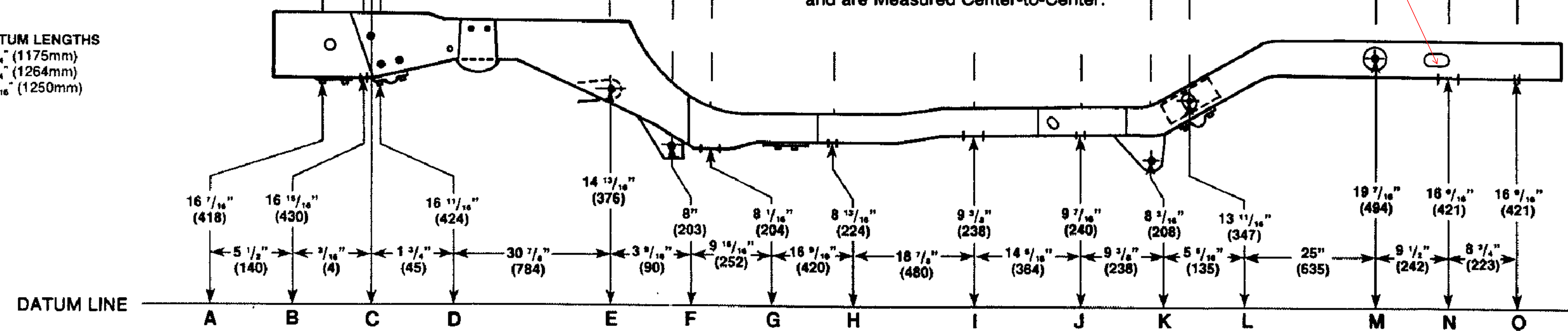
Top of Front Fender Bolt on Core Support

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.

MEASURING POINTS

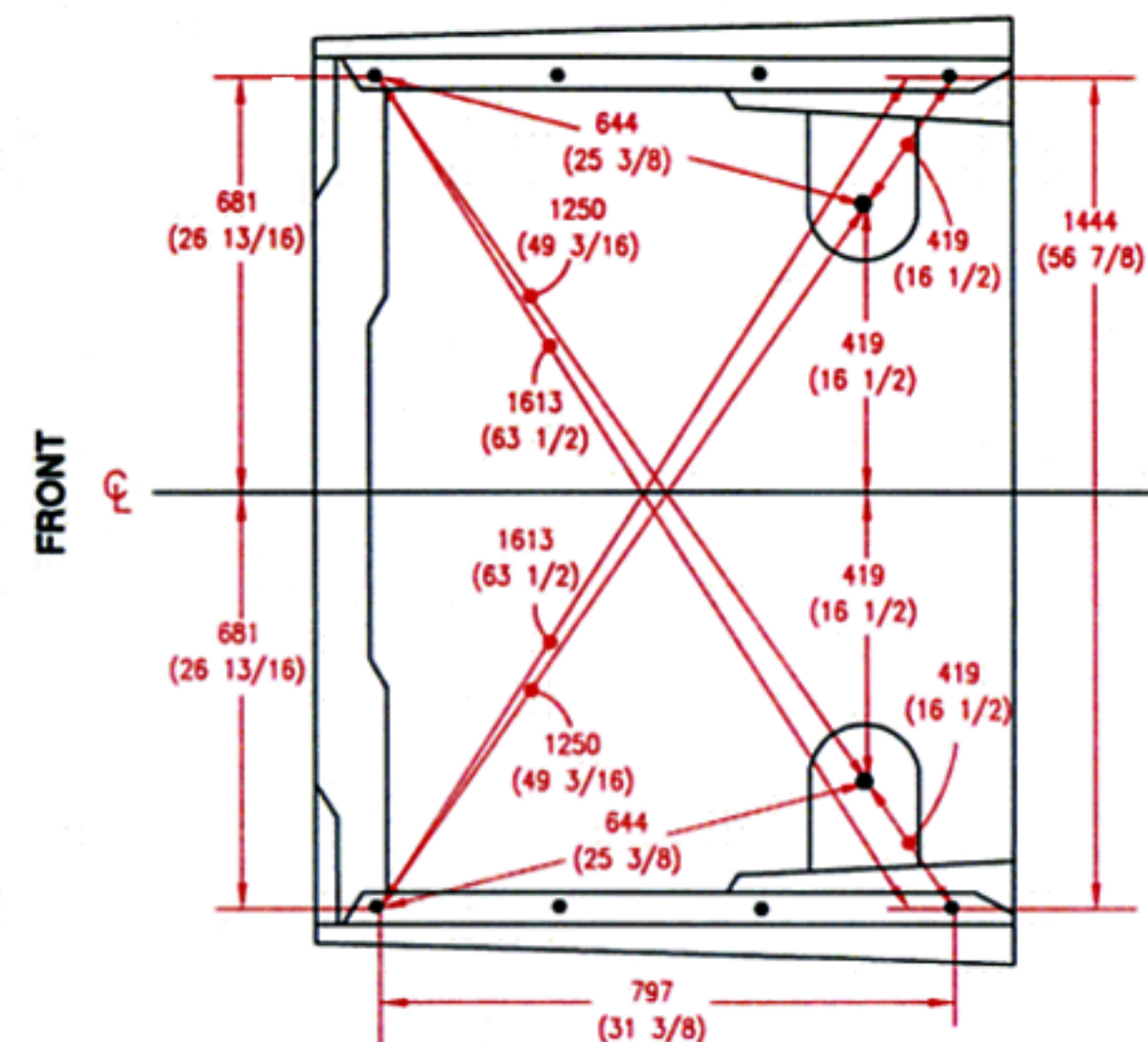
- A = Bolt
- B = 3/16" (14) - Threaded Hole
- C = Front Fender Bolt
- D = Bolt
- E = Bolt
- F = Bolt
- G = 3/8" x 1" (19 x 25)
- H = 3/4" (19)
- I = 3/8" x 1" (19 x 25)
- J = 3/4" (19)
- K = Bolt
- L = Bolt
- M = Bolt
- N = 3/4" x 1" (19 x 25)
- O = 1/2" (13)

OVERALL DATUM LENGTHS
B to G = 46 1/8" (1175mm)
G to J = 49 3/4" (1264mm)
J to N = 49 3/16" (1250mm)



SEE PROCEDURE EXPLANATION

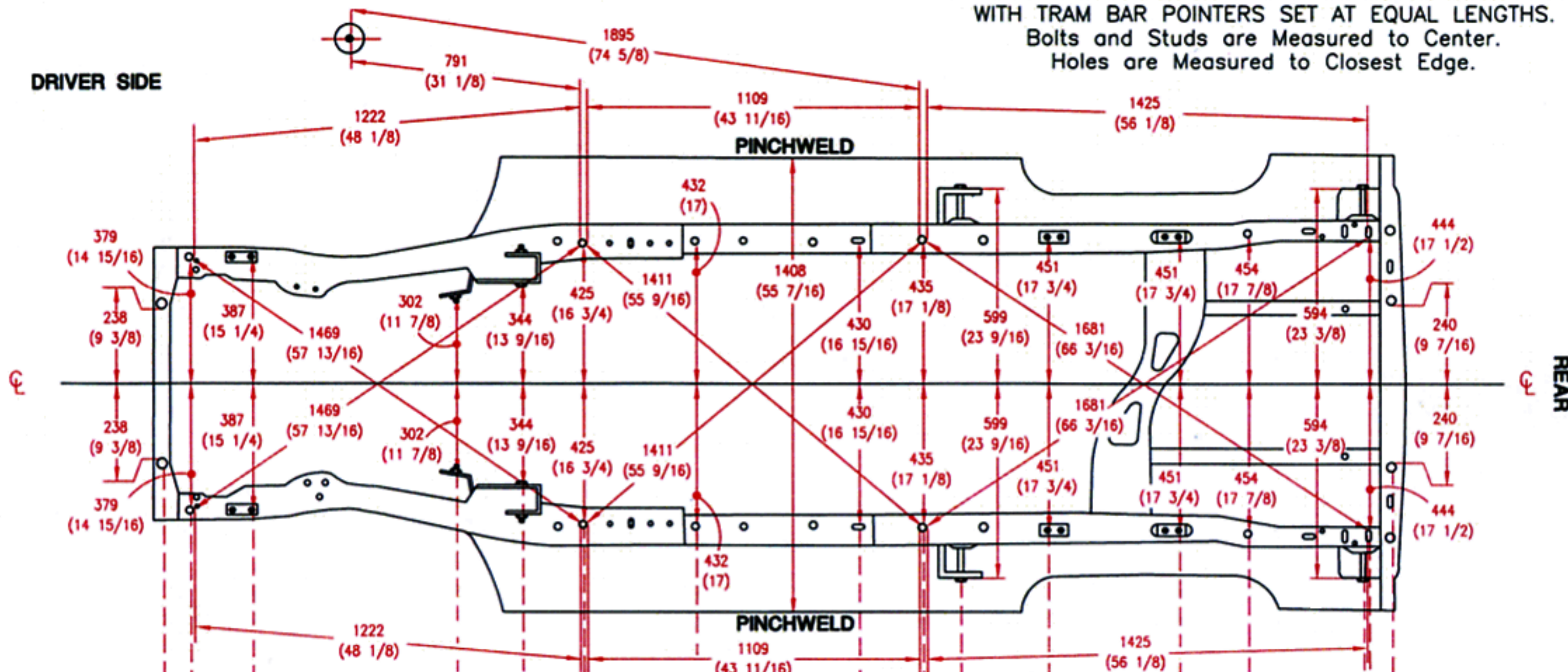
UNDERHOOD VIEW
 UNDERHOOD VIEW POINT-TO-POINT DIMENSIONS ARE TAKEN WITH TRAM BAR POINTERS SET AT EQUAL LENGTHS. Bolts and Studs are Measured to Center. Holes are Measured to Closest Edge.



See "C" for Datum Height and Length

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.

DRIVER SIDE



Top of Front Fender Bolt on Core Support

1999-2001 XJ-Body:
 Fuel Filler Tube Pass-Thru Hole DELETED from Frame Section;
 Fill Tube Routing Revised to 'Under-Frame' Configuration

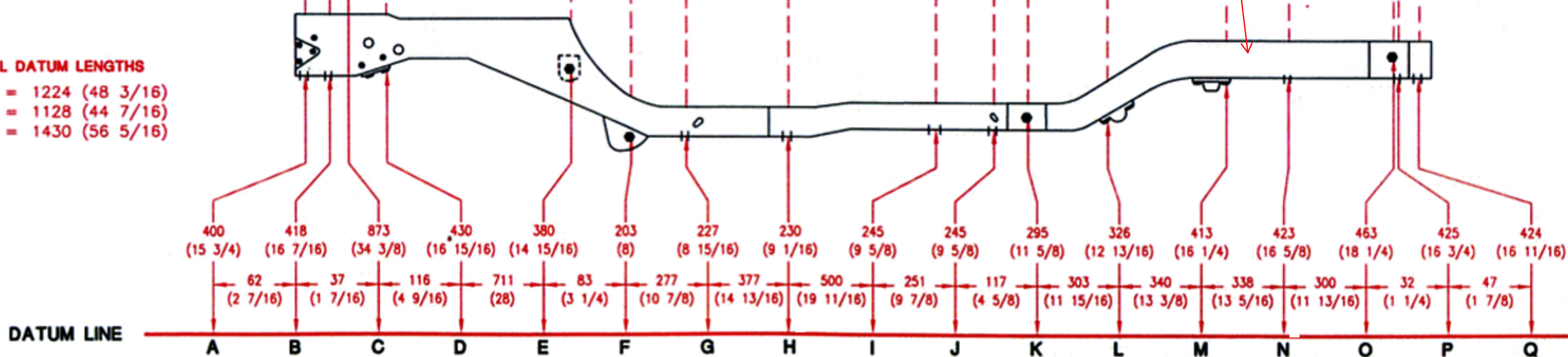
MEASURING POINTS

- A = 26 (1)
- B = 16 (5/8)
- C = Front Fender Bolt
- D = Bolt
- E = Bolt
- F = Bolt
- G = 19 (3/4)
- H = 19 (3/4)
- I = 26 x 32 (1 x 1 1/4)
- J = 19 (3/4)
- K = Bolt
- L = Bolt
- M = Bolt
- N = 19 (3/4)
- O = Bolt
- P = 13 x 20 (1/2 x 13/16)
- Q = 22 (7/8)

OVERALL DATUM LENGTHS

- B to G = 1224 (48 3/16)
- G to J = 1128 (44 7/16)
- J to P = 1430 (56 5/16)

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.



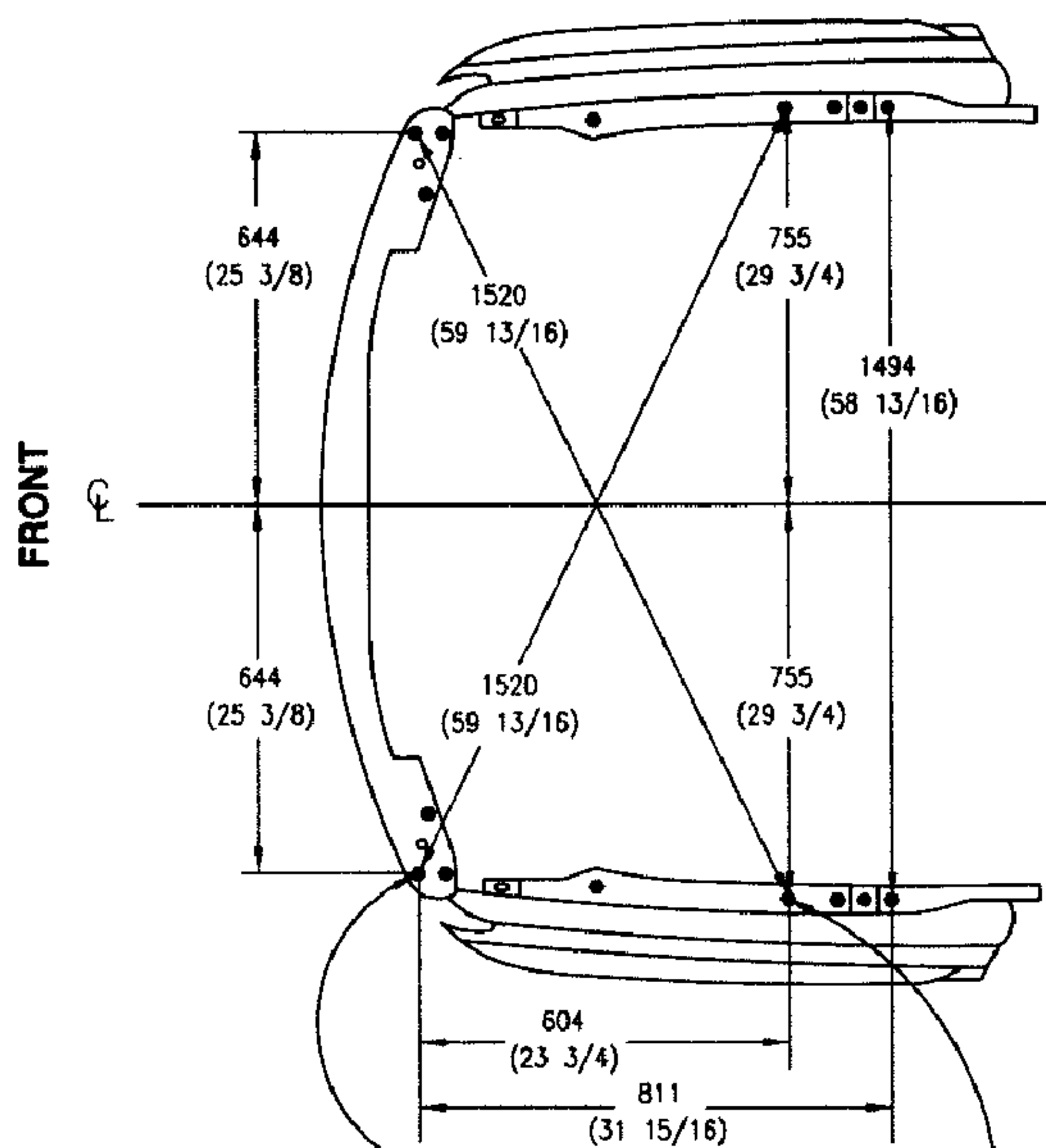
DS = Driver Side
 PS = Passenger Side

SEE PROCEDURE EXPLANATION

1999 JEEP GRAND CHEROKEE 4WD

2690 (105 7/8) WHEELBASE

UNDERHOOD VIEW
 UNDERHOOD 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.

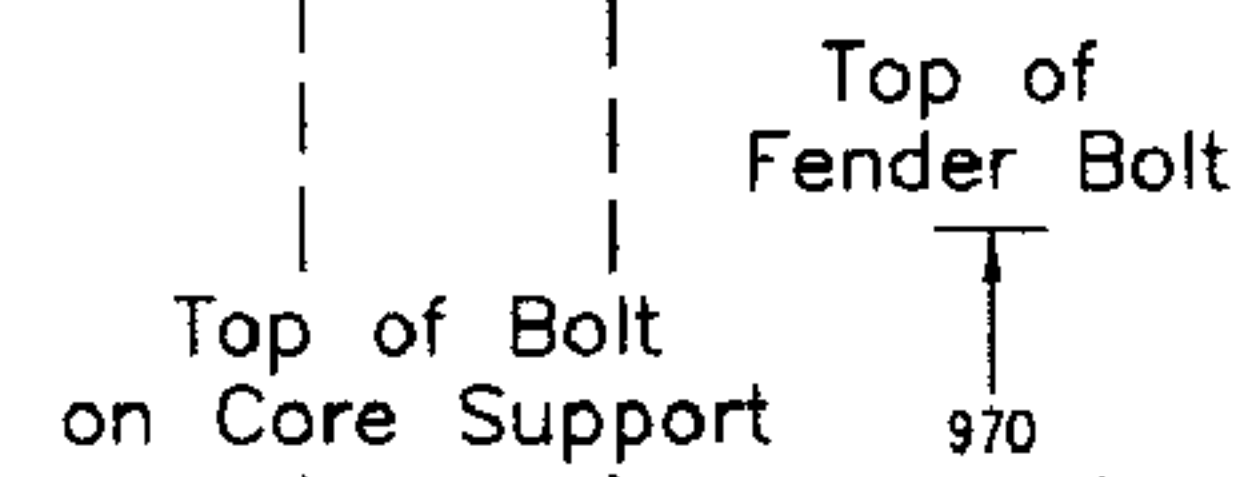
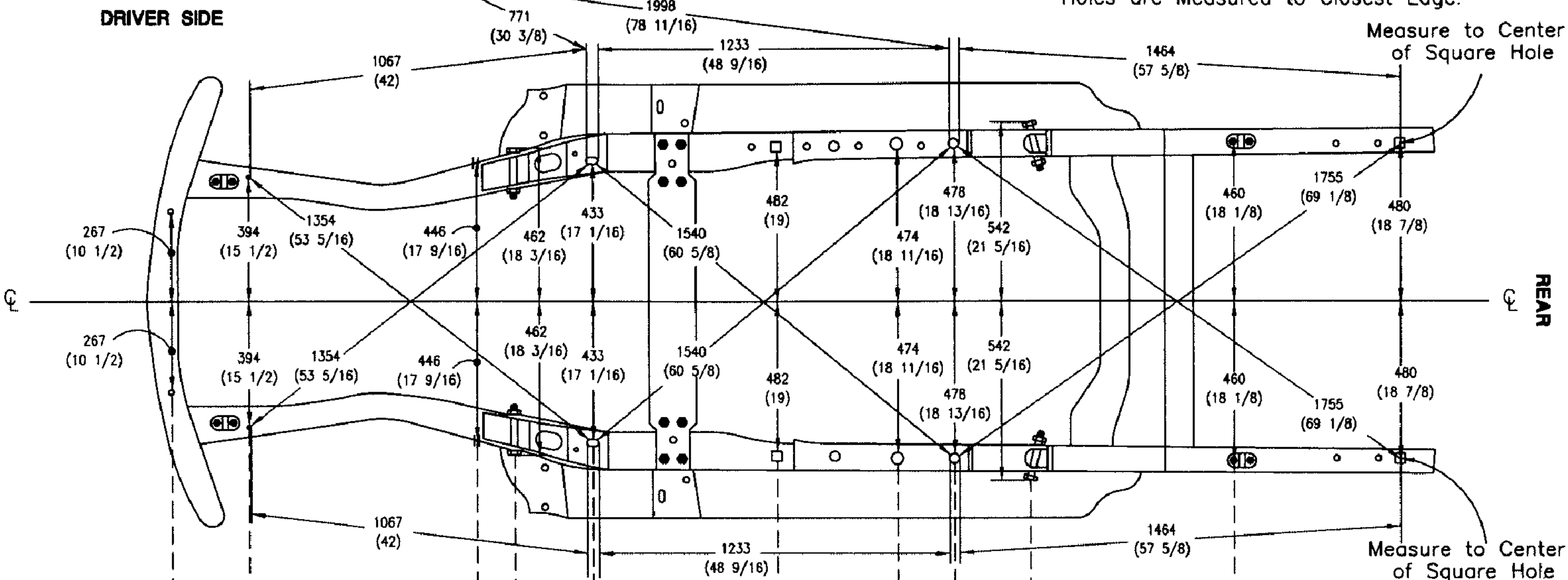


See B for Datum Height and Length

See D for Datum Height and Length

NOTICE
 All Dimensions to Bolts ON THIS PAGE are Measured to Head or Tip.

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.



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.

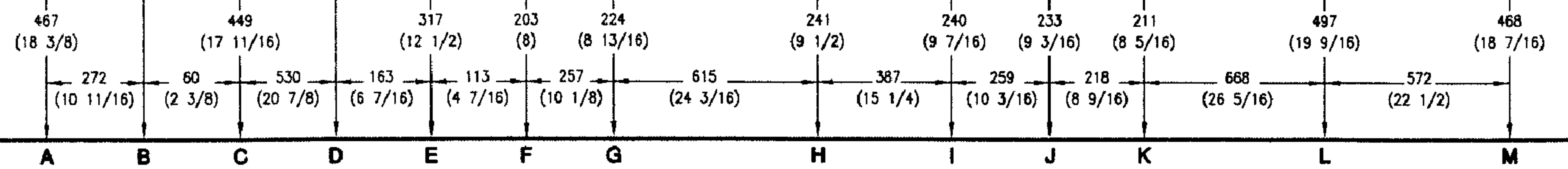
1999-2004 WJ-Body:
 Fuel Filler Tube Pass-Thru Hole DELETED from Frame Section; Fill Tube Routing Revised to 'Under-Frame' Configuration

- MEASURING POINTS**
- A = 14 (9/16)
 - B = Bolt-Core Support
 - C = 8 (5/16) Threaded Hole
 - D = Fender Bolt
 - E = 12 (1/2)
 - F = Bolt
 - G = 17 x 33 (11/16 x 1 5/16)
 - H = 19 x 19 (3/4 x 3/4) Square Hole
 - I = 33 (1 5/16)
 - J = 25 (1)
 - K = Bolt
 - L = Bolt
 - M = 19 x 19 (3/4 x 3/4) Square Hole

- OVERALL DATUM LENGTHS**
- C to G = 1063 (41 7/8)
 - G to J = 1261 (49 5/8)
 - J to M = 1458 (57 3/8)

DS = Driver Side
 PS = Passenger Side

DATUM LINE



SEE PROCEDURE EXPLANATION

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PICK
A03045L
52100380A
1
PART NAME
(0516000)
DATE



ALL INFORMATION

DATE: 05/16/00
TIME: 10:00 AM
BY: [illegible]

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