

FRAMES AND BUMPERS

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BUMPERS AND FASCIAS

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REMOVAL AND INSTALLATION

FRONT BUMPER FASCIA

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove front wheelhouse splash shields as necessary to gain access to fascia fasteners. Refer to Group 23, Body, for proper procedures.
- (3) Remove screws holding bottom of fascia to radiator closure panel.
- (4) Disengage fog lamp wire connector from body wire harness, if equipped.
- (5) Remove screws holding fascia to front fenders (Fig. 1).
- (6) Disengage fascia from drive-pins screws on bottom of front fenders.
- (7) Separate fascia from vehicle.

INSTALLATION

- (1) Place fascia in position on vehicle.
- (2) Engage fascia to drive-pins on bottom of front fenders.
- (3) Install screws to hold fascia to front fenders.
- (4) Engage fog lamp wire connector to body wire harness, if equipped.
- (5) Install screws to hold bottom of fascia to radiator closure panel.
- (6) Install front wheelhouse splash shields.

FRONT BUMPER REINFORCEMENT

REMOVAL

- (1) Remove front fascia.

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REAR BUMPER FASCIA	2

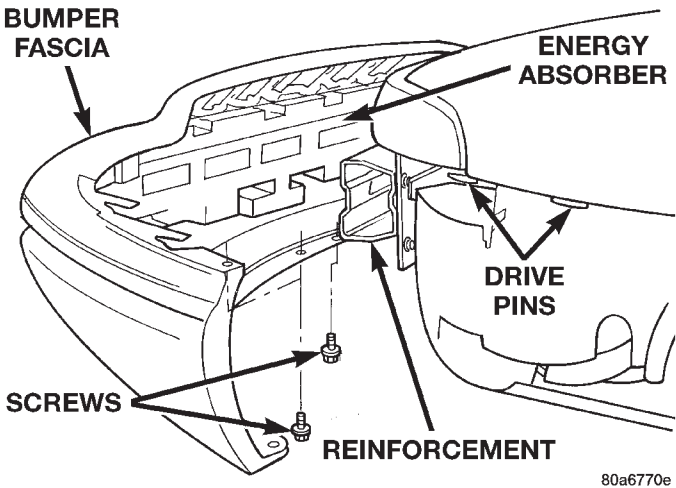


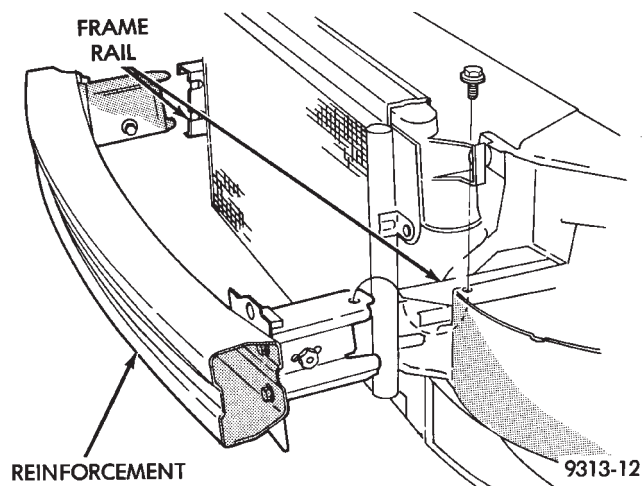
Fig. 1 Front Bumper Fascia

- (2) Remove bolts holding top of bumper reinforcement adapter to frame rail.
- (3) Loosen bolts holding inside of bumper reinforcement to frame rail (Fig. 2).
- (4) Pull reinforcement forward.
- (5) Separate reinforcement from vehicle.

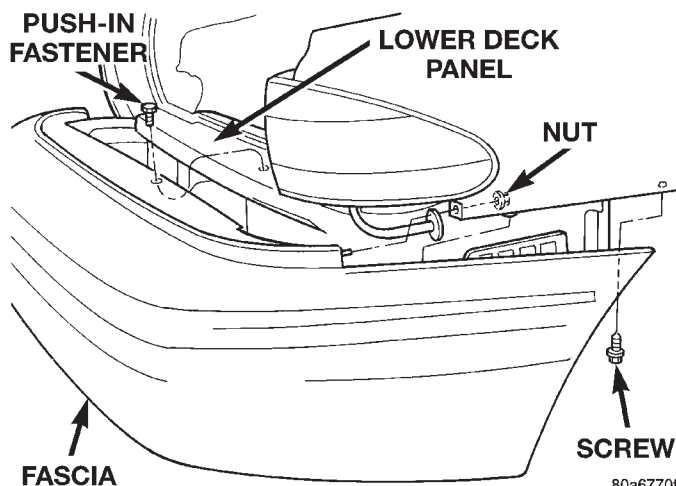
INSTALLATION

- (1) Place reinforcement in position on front of vehicle.
- (2) Push reinforcement adapters rearward into ends of frame rails.
- (3) Tighten bolts to hold inside of bumper reinforcement to frame rail.
- (4) Install bolts to hold top of bumper reinforcement adapters to frame rail.
- (5) Install front fascia.

REMOVAL AND INSTALLATION (Continued)

*Fig. 2 Front Bumper Reinforcement***REAR BUMPER FASCIA****REMOVAL**

- (1) Release trunk latch and open trunk lid.
- (2) Remove wheelhouse splash shields as necessary to gain access to fascia fasteners.
- (3) Remove screws holding fascia to bottom of quarter panel.
- (4) Remove screws holding trunk lining to lower deck panel.
- (5) Separate trunk lining from lower deck panel.
- (6) Remove nuts holding fascia to rear edge of quarter panel.
- (7) Disengage wire connectors as necessary, if equipped.
- (8) Remove push-in fasteners holding fascia to lower deck panel (Fig. 3).

*Fig. 3 Rear Bumper Fascia***INSTALLATION**

- (1) Place rear fascia in position on rear of vehicle.
- (2) Install push-in fasteners to hold fascia to lower deck panel.
- (3) Engage wire connectors as necessary, if equipped.
- (4) Install nuts to hold fascia to rear edge of quarter panel.
- (5) Place trunk lining in position on lower deck panel.
- (6) Install screws to hold trunk lining to lower deck panel.
- (7) Install screws to hold fascia to bottom of quarter panel.
- (8) Install wheelhouse splash shields.

FRAME

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REMOVAL AND INSTALLATION

ENGINE CRADLE CROSSMEMBER

REMOVAL

CAUTION: VERIFY THAT VEHICLE IS PROPERLY SUPPORTED AND SECURED TO THE LIFTING DEVICE. VEHICLE CENTER OF GRAVITY WILL CHANGE WHEN HEAVY COMPONENTS ARE REMOVED CAUSING A HAZARDOUS CONDITION.

- (1) Release hood latch and open hood.
- (2) Remove nuts holding engine mounts to cradle.
- (3) Install a suitable engine support device.
- (4) Raise and support vehicle on safety stands.
- (5) Remove bolts holding transaxle crossmember to cradle.
- (6) Lower vehicle and lift engine and transaxle off cradle.
- (7) Raise and support vehicle on safety stands.
- (8) Disconnect sway bar links.
- (9) Remove bolts retaining suspension lower ball joints to spindles.
- (10) Separate lower control arm from spindle. Refer to Group 2, Suspension, for proper procedures.
- (11) Support cradle on a 10 cm by 10 cm by 90 cm (4 in. by 4 in. by 36 in.) wood beam and a jack.
- (12) Remove bolts holding cradle to body shell (Fig. 1).
- (13) Lower cradle away from body shell.

INSTALLATION

NOTE: If cradle replacement is required, transfer suspension components and body mount pads to replacement cradle.

- (1) Support cradle on wood beam and a jack.
- (2) Position cradle under body shell.
- (3) Install bolts to hold cradle to body shell.
- (4) Connect lower control arms to spindles. Refer to Group 2, Suspension, for proper procedures.
- (5) Install bolts to retain suspension lower ball joints to spindles.
- (6) Connect sway bar links.

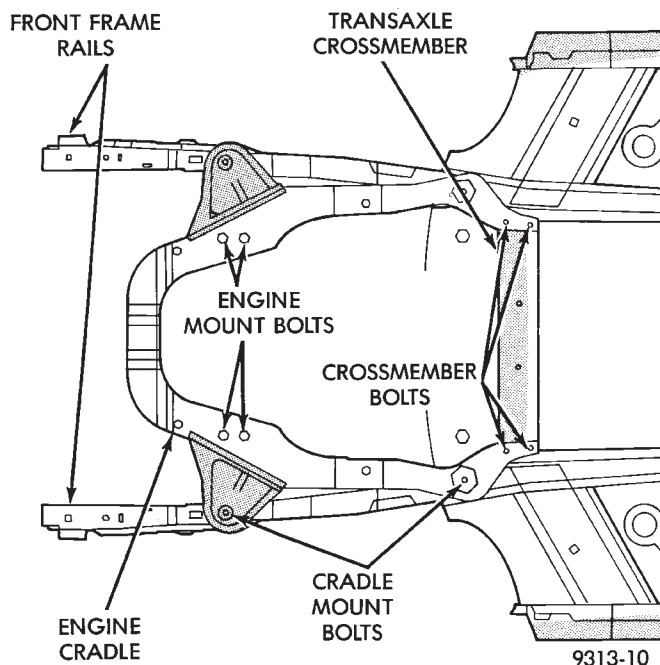


Fig. 1 Engine Cradle

- (7) Lower vehicle and lower engine and transaxle onto cradle.
- (8) Raise vehicle.
- (9) Install bolts to hold transaxle crossmember to cradle.
- (10) Lower vehicle.
- (11) Remove engine support device.
- (12) Install nuts to hold engine mounts to cradle.
- (13) Align front suspension if necessary.

SPECIFICATIONS

VEHICLE DIMENSIONS

Frame dimensions are listed in metric scale then converted to inch scale listed in parenthesis. All dimensions are from center to center of Principal Locating Point (PLP), or from center to center of PLP and fastener location. Vertical dimensions can be taken from the work surface to the locations indicated (Fig. 2), (Fig. 3), (Fig. 4), (Fig. 5), (Fig. 6), (Fig. 7), (Fig. 8), (Fig. 9), (Fig. 10)

SPECIFICATIONS (Continued)

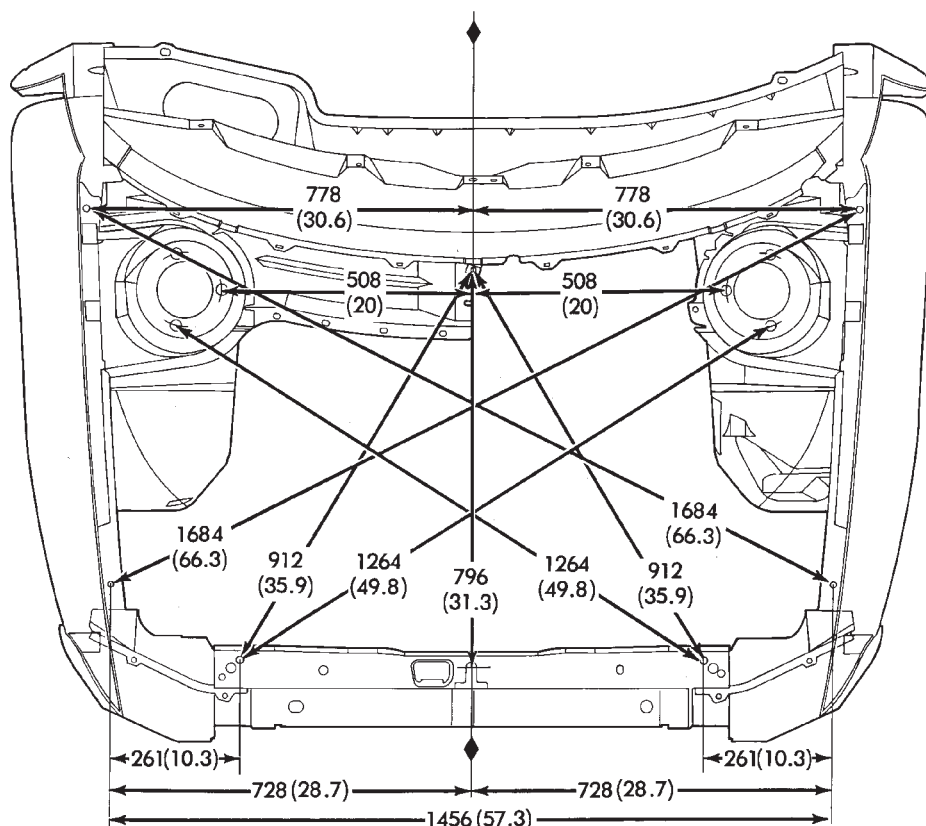


Fig. 2 Engine Compartment Top View

9313-14

- A = CENTER OF SLOT ON SIDE OF RAIL.
- B = CENTER OF SLOT RADIUS.
- C = BOTTOM OF CLOSURE PANEL.
- E = BOTTOM OF RAIL.
- F = CENTER OF TENSION STRUT BUSHING.
- J = HOLE, BOTTOM OF RAIL.
- L = REARWARD CRADLE MOUNTING.
- S = FORWARD STRUT MOUNTING NUT.
- T = INWARD STRUT MOUNTING NUT.
- () = INCHES TO NEAREST ONE TENTH INCH.
- ▲ = PRINCIPLE LOCATION POINT (PLP)

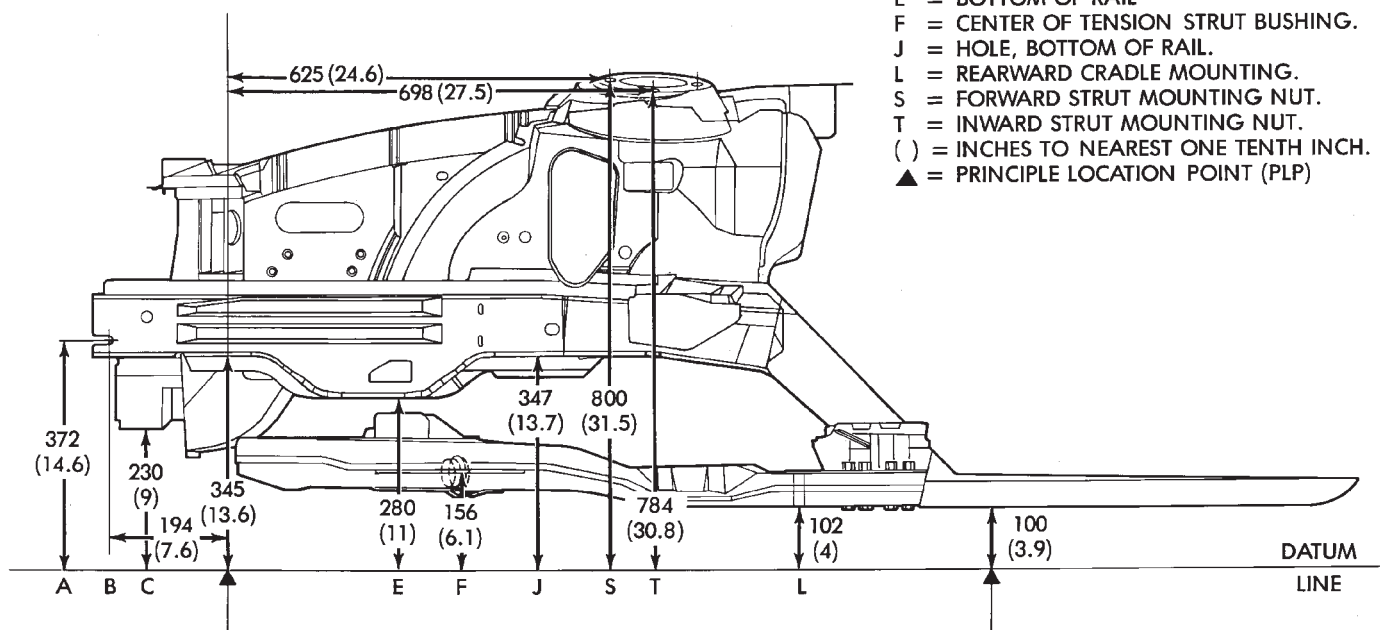
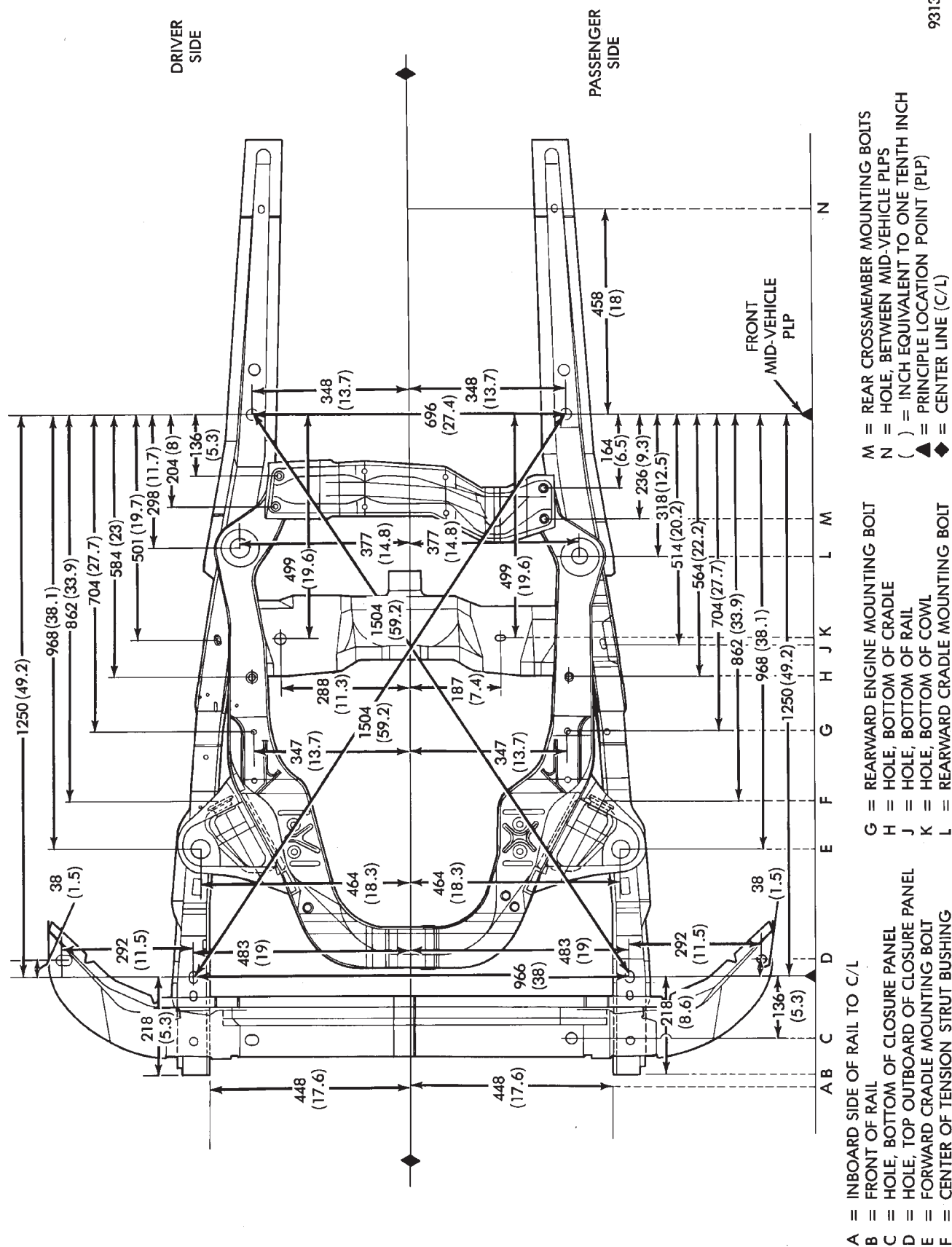
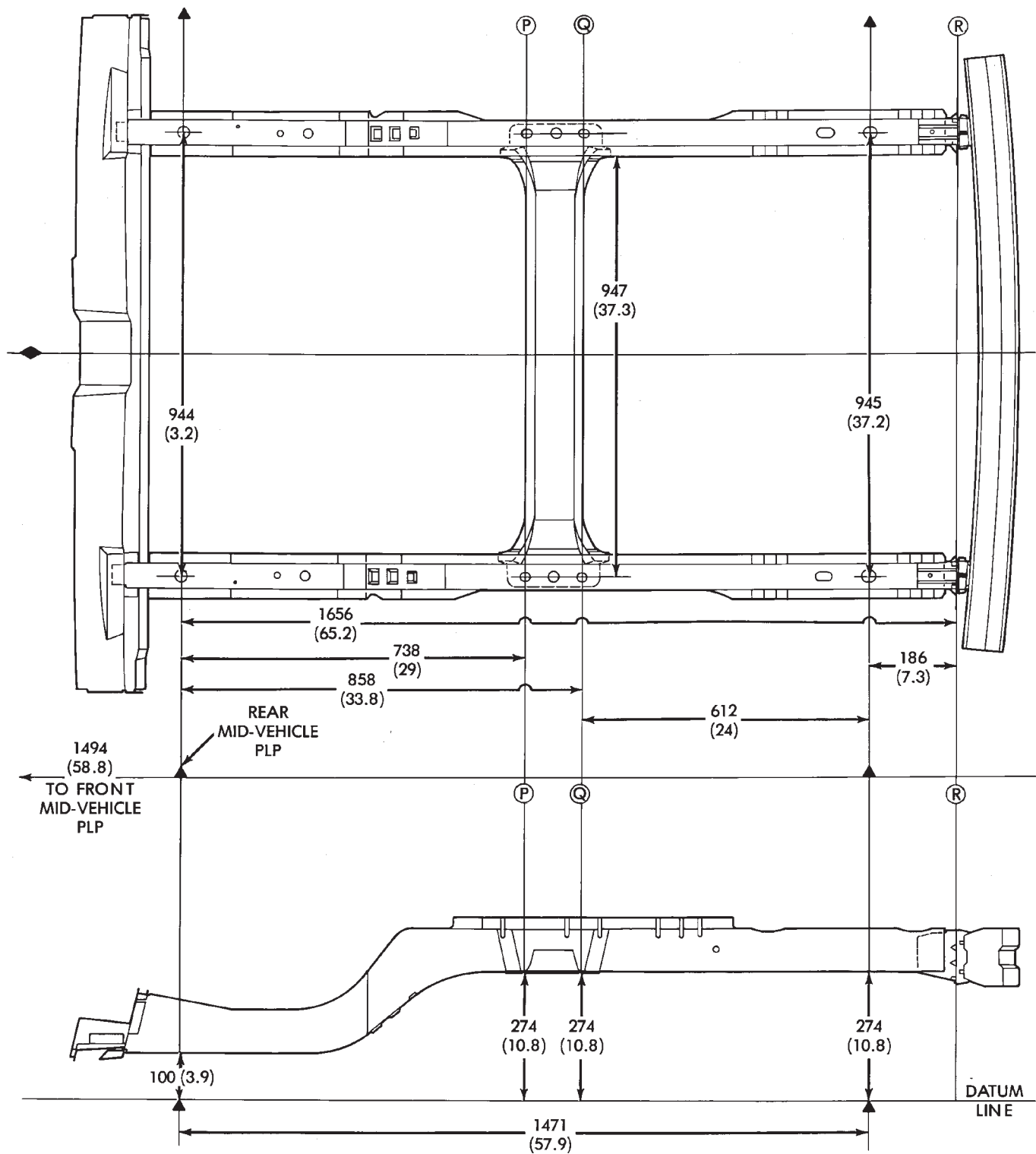


Fig. 3 Engine Compartment Side View

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SPECIFICATIONS (Continued)

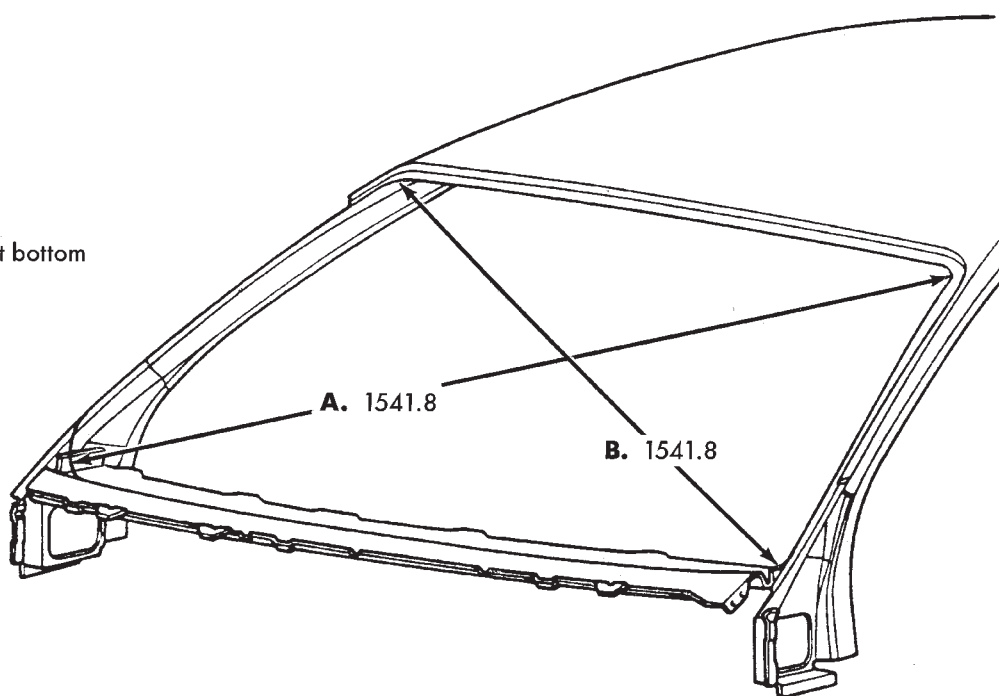


- P = BOLT, SUSPENSION MOUNTING FORWARD
 Q = BOLT, SUSPENSION MOUNTING REARWARD
 R = END OF FRAME RAIL ADAPTER
 () = INCH EQUIVALENT TO ONE TENTH INCH
 ▲ = PRINCIPLE LOCATION POINT (PLP)
 ◆ = CENTER LINE (C/L)

Fig. 5 Rear Frame Section

SPECIFICATIONS (Continued)

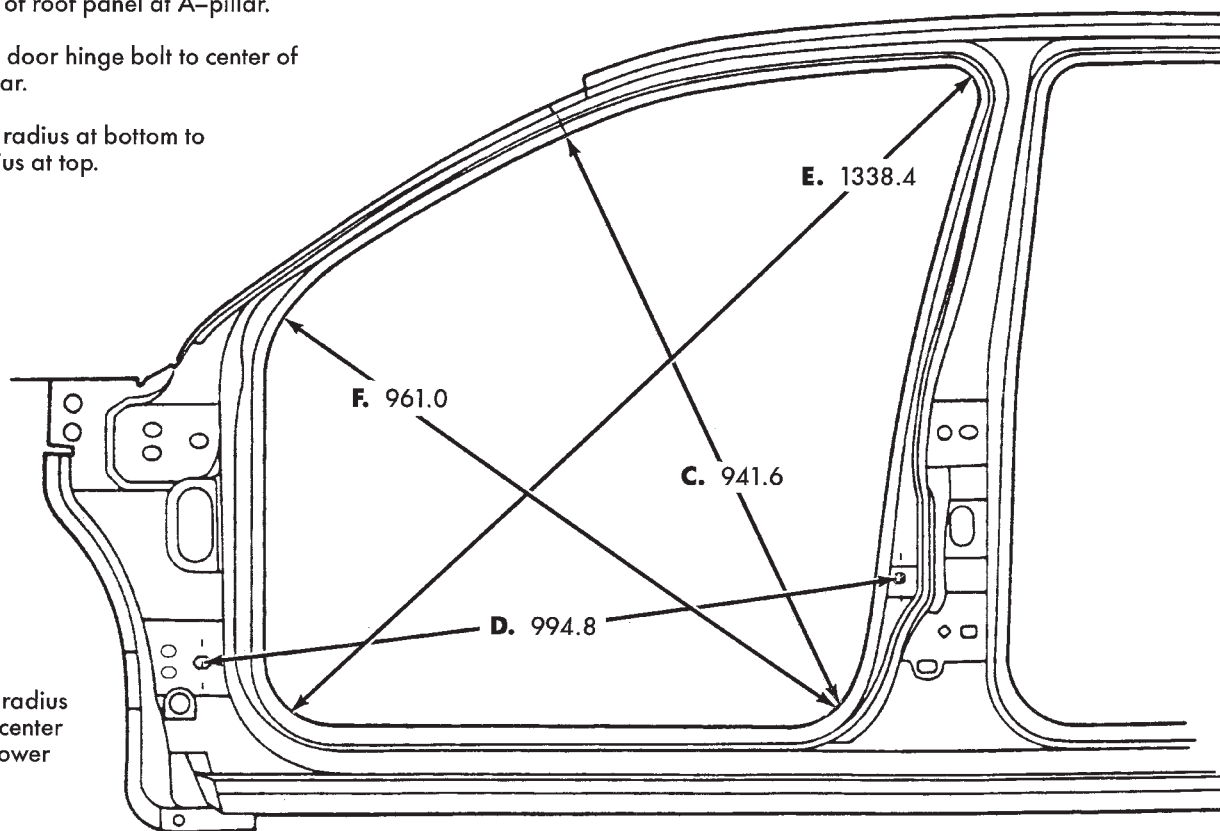
A. & B. Center of radius at bottom to center of radius at top.



C. Center of front door lower rear corner radius to front edge of roof panel at A-pillar.

D. Center of door hinge bolt to center of hole in B-pillar.

E. Center of radius at bottom to center of radius at top.



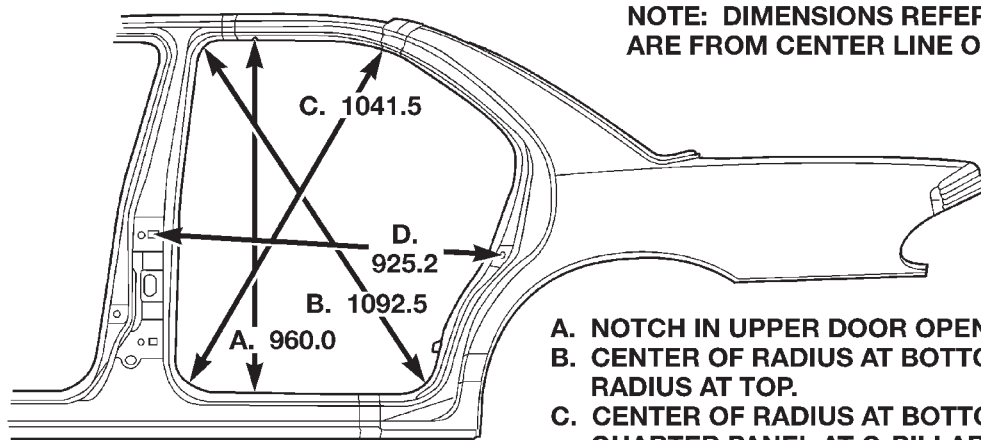
F. Center of radius at bottom to center of radius at lower A-pillar.

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Fig. 6 Windshield and Front Door Openings

SPECIFICATIONS (Continued)

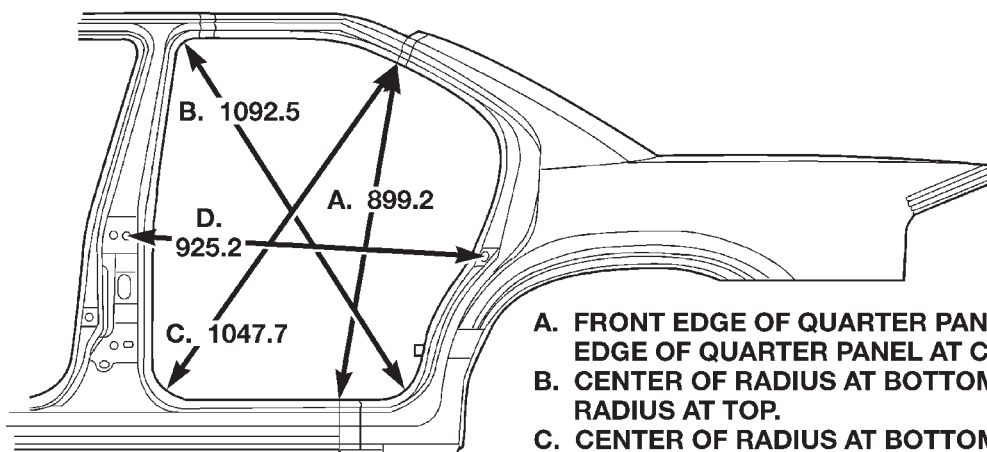
LHLP
LHXP
LHXS



NOTE: DIMENSIONS REFERENCED FROM HOLES ARE FROM CENTER LINE OF HOLE.

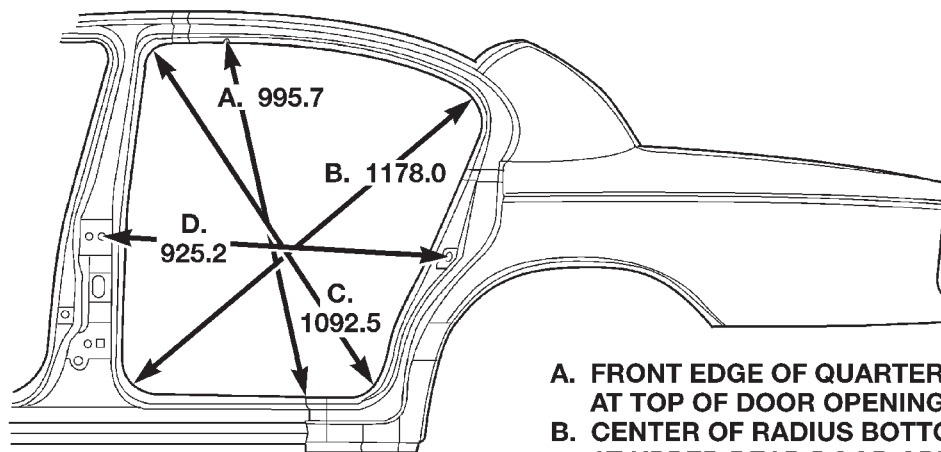
- A. NOTCH IN UPPER DOOR OPENING TO SILL FLANGE.
- B. CENTER OF RADIUS AT BOTTOM TO CENTER OF RADIUS AT TOP.
- C. CENTER OF RADIUS AT BOTTOM TO EDGE OF QUARTER PANEL AT C-PILLAR.
- D. UPPER REAR DOOR HINGE REAR BOLT HOLE TO DOOR LATCH HOLE.

LHDH
LHDP



- A. FRONT EDGE OF QUARTER PANEL AT DOOR SILL TO EDGE OF QUARTER PANEL AT C-PILLAR.
- B. CENTER OF RADIUS AT BOTTOM TO CENTER OF RADIUS AT TOP.
- C. CENTER OF RADIUS AT BOTTOM TO EDGE OF QUARTER PANEL AT C-PILLAR.
- D. UPPER REAR DOOR HINGE REAR BOLT HOLE TO DOOR LATCH HOLE.

LHCP

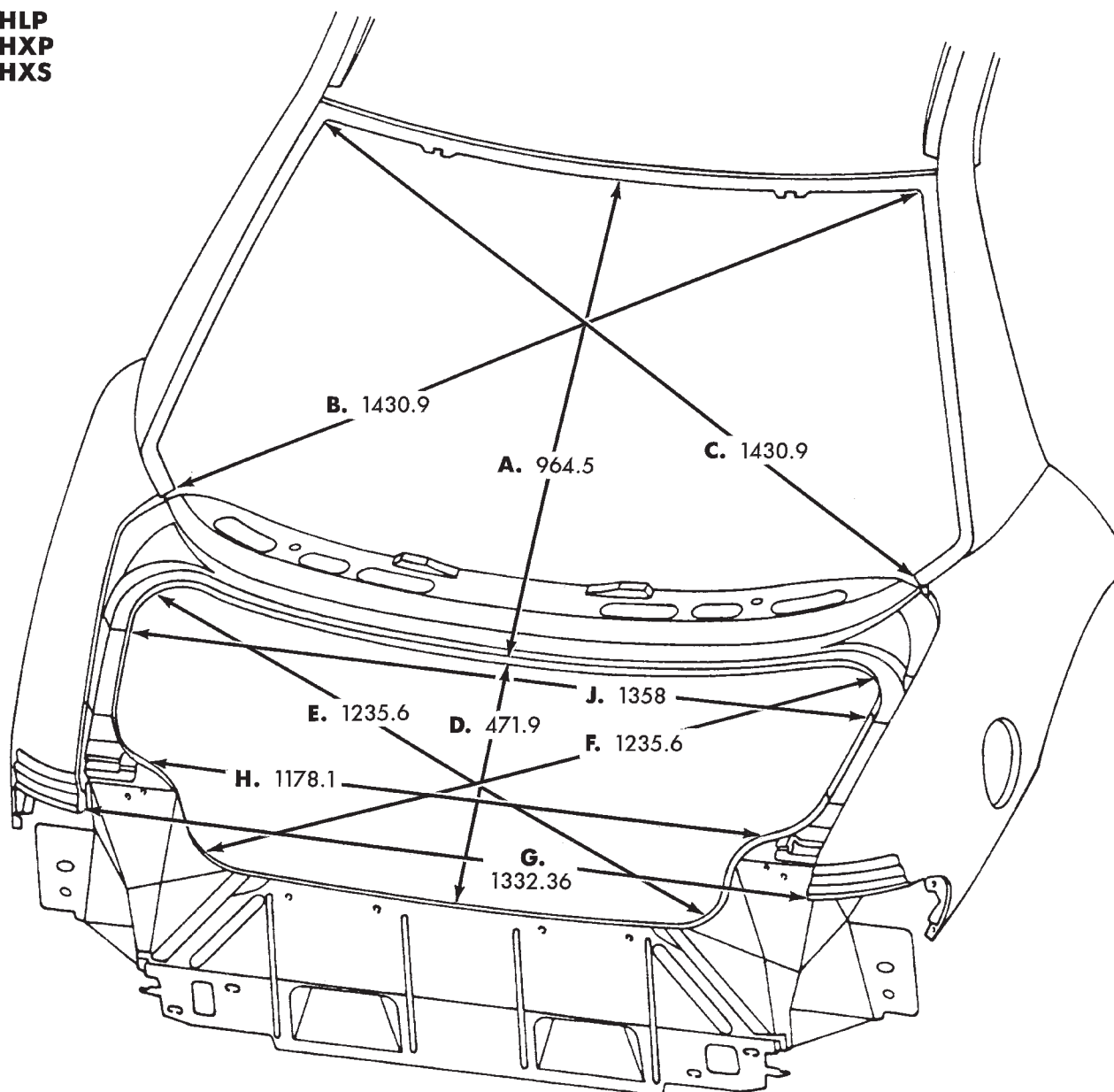


- A. FRONT EDGE OF QUARTER PANEL AT SILL TO NOTCH AT TOP OF DOOR OPENING.
- B. CENTER OF RADIUS BOTTOM TO CENTER OF RADIUS AT UPPER REAR DOOR OPENING.
- C. CENTER OF RADIUS BOTTOM TO CENTER OF RADIUS AT TOP.
- D. UPPER REAR DOOR HINGE REAR BOLT HOLE TO DOOR LATCH HOLE.

Fig. 7 Rear Door Openings

SPECIFICATIONS (Continued)

LHLP
LHXP
LHXS



A. Lower edge of back glass upper mounting flange to front of rear deck opening weatherstrip flange.

B. & C. Upper rear corner of glass mounting flange to edge of rear quarter panel.

D. Front deck opening weatherstrip flange to deck opening tailpanel weatherstrip flange.

E. & F. Center of deck opening front corner radius to rear tailpanel deck opening radius.

G. Rear tip of quarter panels.

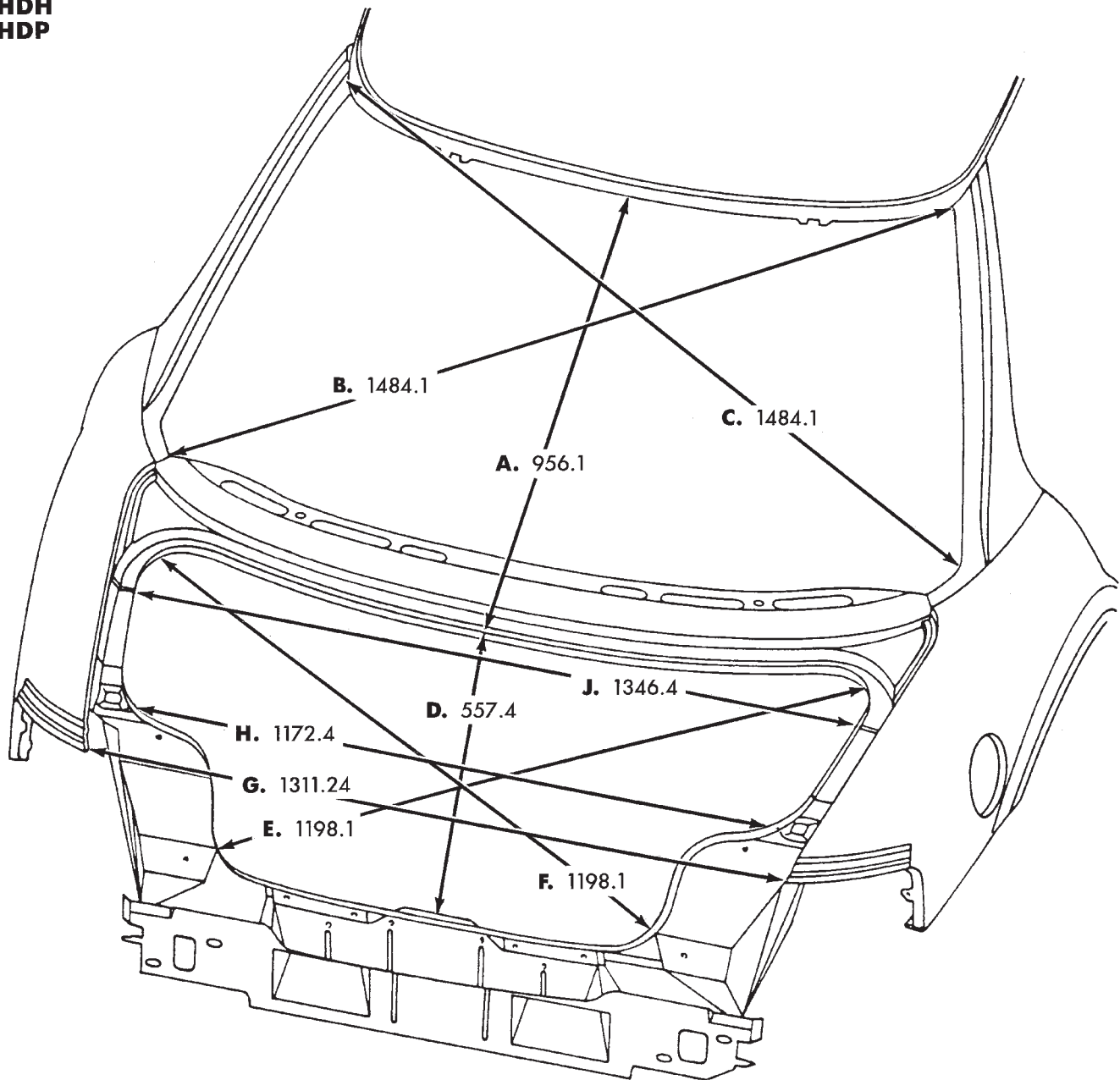
H. Rear edge of trough rails.

J. Front edge of trough rails.

Fig. 8 Rear Window and Trunk Opening

SPECIFICATIONS (Continued)

LHDH
LHDP



A. Lower edge of back glass upper mounting flange to front of rear deck opening weatherstrip flange.

B. & C. Upper rear corner of glass mounting flange to edge of rear quarter panel.

D. Front deck opening weatherstrip flange to deck opening tailpanel weatherstrip flange.

E. & F. Center of deck opening front corner radius to rear tailpanel deck opening radius.

G. Rear tip of quarter panels.

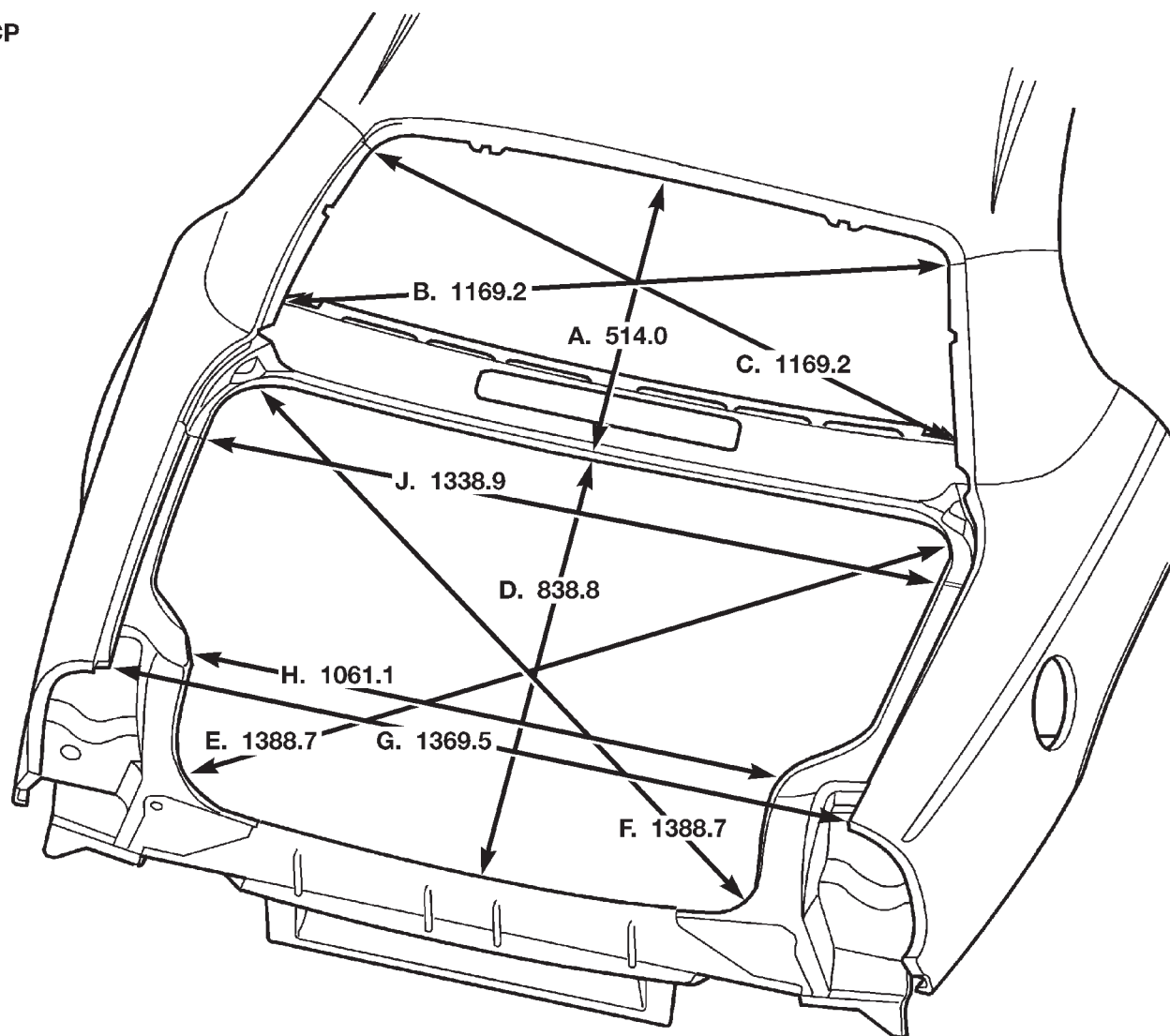
H. Rear edge of trough rails.

J. Front edge of trough rails.

Fig. 9 Rear Window and Trunk Openings

SPECIFICATIONS (Continued)

LHCP



A. LOWER EDGE OF BACK GLASS UPPER MOUNTING FLANGE TO FRONT OF DECK OPENING WEATHERSTRIP FLANGE.

B. & C. UPPER CORNER OF REAR QUARTER PANEL GLASS OPENING TO LOWER GLASS OPENING AT QUARTER PANEL.

D. FRONT DECK OPENING WEATHERSTRIP FLANGE TO DECK OPENING TAILPANEL WEATHERSTRIP FLANGE.

E. & F. CENTER OF DECK OPENING FRONT CORNER RADIUS TO REAR TAILPANEL DECK OPENING RADIUS.

G. REAR TIP OF QUARTER PANELS.

H. REAR EDGE OF TROUGH RAILS.

J. FRONT EDGE OF TROUGH RAILS.

Fig. 10 Rear Window and Trunk Openings

