FRAME AND BUMPERS

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REMOVAL AND INSTALLATION

FRONT BUMPER FASCIA

REMOVAL

(1) Release hood latch and open hood.
(2) Remove bolts holding fascia to headlamp mounting panel at each side of grille.
(3) Hoist and support vehicle on safety stands.
(4) Remove front wheels. Refer to Group 22, Wheels and Tires, for proper procedures and sequence.
(5) Remove front wheelhouse splash shields fasteners as necessary to gain access to bolts holding front fascia to fender. Refer to Group 23, Body, for proper procedures.
(6) Remove bolts holding fascia to bottom of front fenders (Fig. 1).
(7) Remove bolts holding bottom of fascia/air dam to radiator closure panel.
(8) Disconnect fog lamp/parking and turn signal lamp wire connector, if necessary.
(9) Remove bumper fascia from vehicle.

INSTALLATION

(1) Position front bumper fascia on vehicle.
(2) Lower vehicle.
(3) Install bolts to hold fascia to headlamp mounting panel at each side of grille.
(4) Raise vehicle.
(5) Install bolts to hold fascia to bottom of front fenders (Fig. 1). The fascia should be flush to fender.

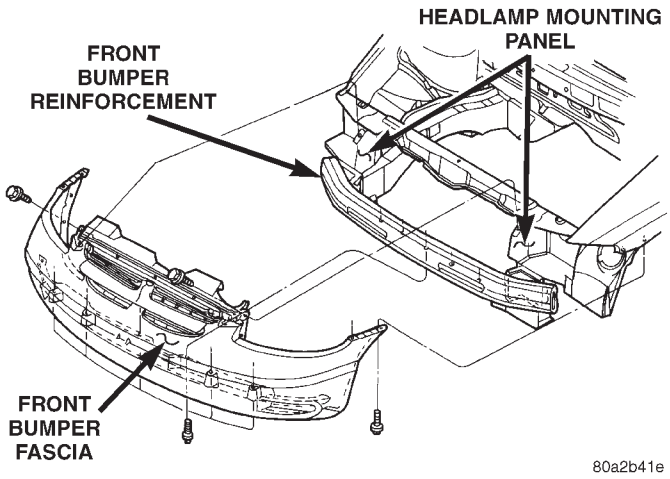

Fig. 1 Front Bumper Fascia

(6) Install front wheelhouse splash shields fasteners. Refer to Group 23, Body, for proper procedures.
(7) Install front wheels. Refer to Group 22, Wheels and Tires, for proper procedures and tightening sequence.
(8) Install bolts to hold bottom of fascia to radiator closure panel.

FRONT BUMPER REINFORCEMENT

REMOVAL

(1) Remove front bumper fascia.
(2) Support front bumper reinforcement on a suitable lifting device.
(3) Remove nuts holding front bumper reinforcement to frame rail (Fig. 2).

REMOVAL AND INSTALLATION (Continued)

(4) Remove front bumper reinforcement from vehicle.

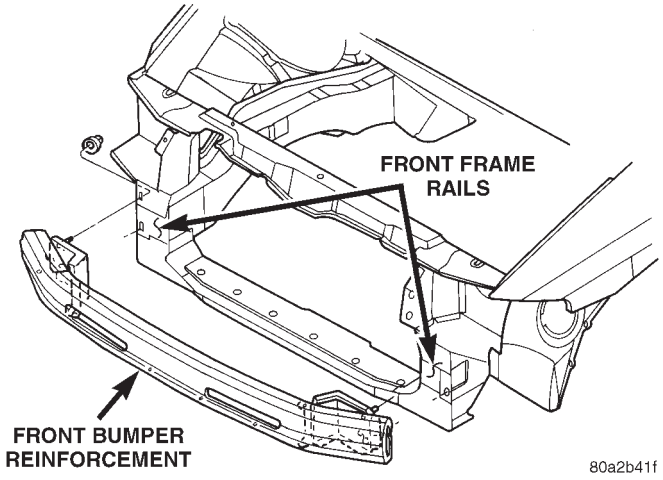

Fig. 2 Front Bumper Reinforcement

INSTALLATION

(1) Position front bumper reinforcement on vehicle.

(2) Install nuts to hold reinforcement to frame rails. Tighten nuts to 54 N·m (40 ft. lbs.) torque.

(3) Install front fascia.

REAR BUMPER FASCIA

REMOVAL

(1) Release liftgate latch and open liftgate.

(2) Hoist and support vehicle on safety stands.

(3) Remove screws holding rear fascia to rear fascia brackets (Fig. 3).

(4) Remove plastic rivets holding bottom of rear fascia to bumper reinforcement.

(5) Disengage hooks on sides of fascia from tabs in rear fascia brackets.

(6) Remove rear fascia from vehicle.

INSTALLATION

(1) Position rear fascia on vehicle.

(2) Engage fascia tabs under liftgate.

(3) Engage hooks on sides of fascia to tabs in rear fascia brackets.

NOTE: Verify all fascia tabs are still engaged under the liftgate. Ensure acceptable and consistent gap between liftgate and fascia.

(4) Install plastic rivets to hold bottom of rear fascia to bumper reinforcement.

(5) Install screws holding rear fascia to rear fascia brackets.

(6) Lower vehicle.

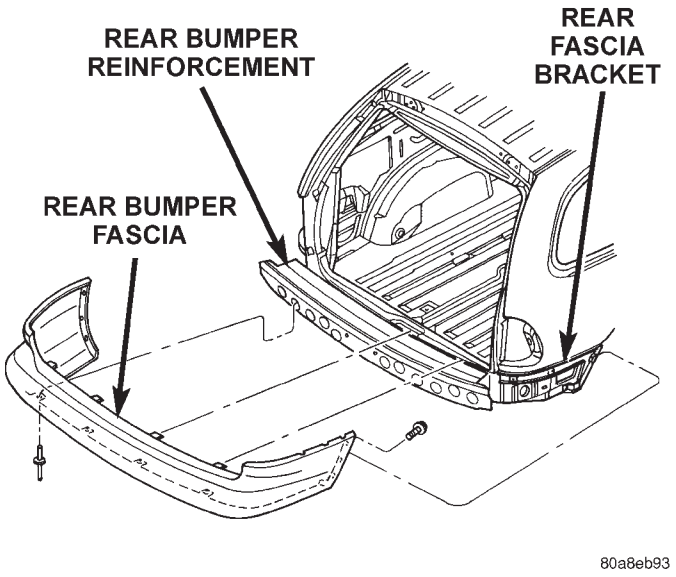

Fig. 3 Rear Bumper Fascia

REAR BUMPER REINFORCEMENT

REMOVAL

(1) Remove rear bumper fascia.

(2) Support rear bumper reinforcement on a suitable lifting device.

(3) Mark position of nuts on frame rail extensions to aid installation.

(4) Remove nuts holding rear bumper reinforcement to frame rail extensions (Fig. 4).

(5) Remove rear bumper reinforcement from vehicle.

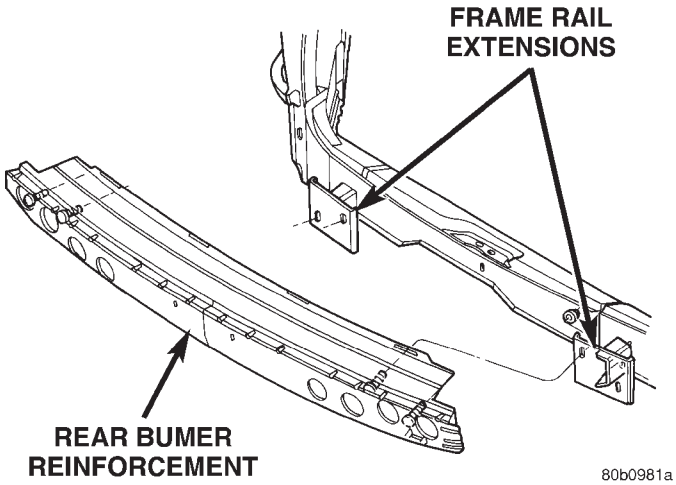

Fig. 4 Rear Bumper Reinforcement

INSTALLATION

(1) Position rear bumper reinforcement on vehicle.

(2) Loosely install nuts to hold rear bumper reinforcement to frame rail extensions (Fig. 4).

(3) Align nuts to previously made marks on frame rail extensions. Tighten nuts to 27 N·m (20 ft. lbs.) torque.

(4) Install rear bumper fascia.

FRAME

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REMOVAL AND INSTALLATION

FRONT CROSSMEMBER

The front suspension crossmember must be installed in the design location to achieve proper front end suspension alignment. If the crossmember is removed without applying reference marks on the frame rails, align the crossmember according to the dimensions provided in this group.

NOTE: If the caged nuts in the frame rails become damaged and cannot be reused, a replacement nut can be obtained through a Mopar® Parts supplier.

REMOVAL

(1) Disconnect battery negative cable.
(2) Remove steering column lower cover from instrument panel. Refer to Group 8E, Instrument Panel and Systems.
(3) Remove knee blocker reinforcement. Refer to Group 8E, Instrument Panel and Systems.
(4) Position steering so front wheels are straight ahead.

CAUTION: Do not rotate steering wheel after disengaging lower coupling from steering gear, damage to airbag clock spring can result.

(5) Remove clinch bolt holding steering column coupling to steering gear shaft (Fig. 1).
(6) Remove steering column coupling from telescoping steering gear shaft.
(7) Hoist and support vehicle on safety stands.
(8) Position a drain pan under power steering pump and oil return hose coupling.
(9) Using a hose pinch-off pliers (C-4390), pinch power steering oil return hose off between the crossmember coupling and the pump.
(10) Loosen hose clamp at the crossmember coupling.
(11) Disconnect return hose from metal tube.
(12) While holding pressure relief valve nut on back of power steering pump, Remove flare nut holding high pressure hose to back of pump.
(13) Separate high pressure hose from pump.
(14) Allow power steering fluid to drain into pan.
(15) Remove bolts holding anti-lock brake sensor leads to crossmember.
(16) Position anti-lock brake leads out of the way.
(17) Disconnect stabilizer bar links from ends of stabilizer bar. Refer to Group 2, Suspension.
(18) Disconnect lower ball joints from lower control arms. Refer to Group 2, Suspension.
(19) Remove bolt holding rear engine mount to crossmember (Fig. 2).
(20) Using paint or grease pencil, mark outline of crossmember on frame rails to aid installation.
(21) Support crossmember on suitable lifting device (Fig. 4).
(22) Remove bolts holding crossmember to front frame rails (Fig. 3).
(23) Remove crossmember from vehicle (Fig. 4).

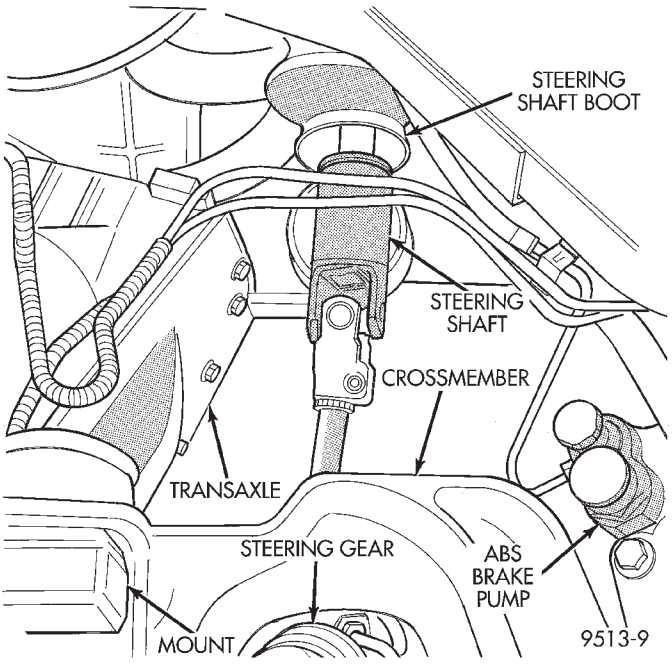


Fig. 1 Steering Coupling Boot

REMOVAL AND INSTALLATION (Continued)

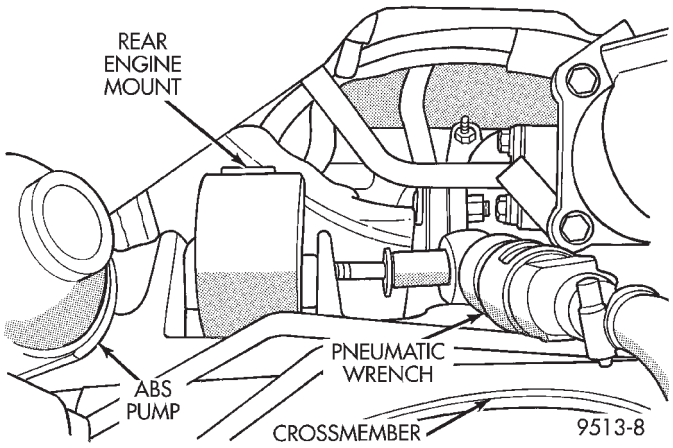


Fig. 2 Rear Engine Mount

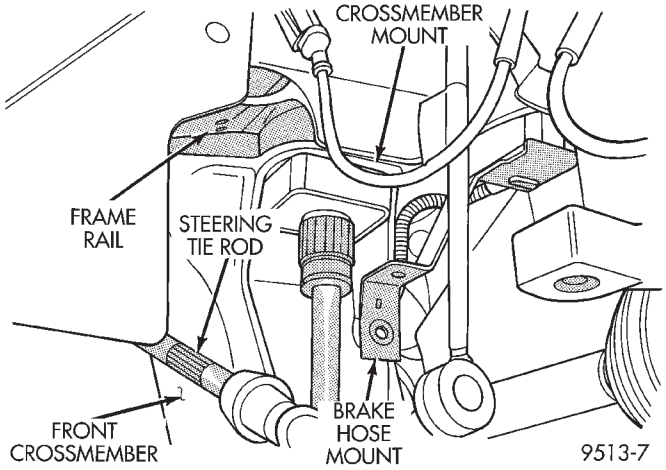


Fig. 3 Crossmember Mount

INSTALLATION

NOTE: If crossmember requires replacement. Refer to Group 2, Suspension, to transfer suspension components and Group 19, Steering, to transfer steering components.

(1) Support crossmember on suitable lifting device (Fig. 4).

(2) Position crossmember to vehicle.

(3) Loosely install bolts to hold crossmember to front frame rails.

(4) Align crossmember to previously made marks on frame rails.

(5) Tighten bolts holding crossmember to frame rails.

(6) Install bolt holding rear engine mount to crossmember.

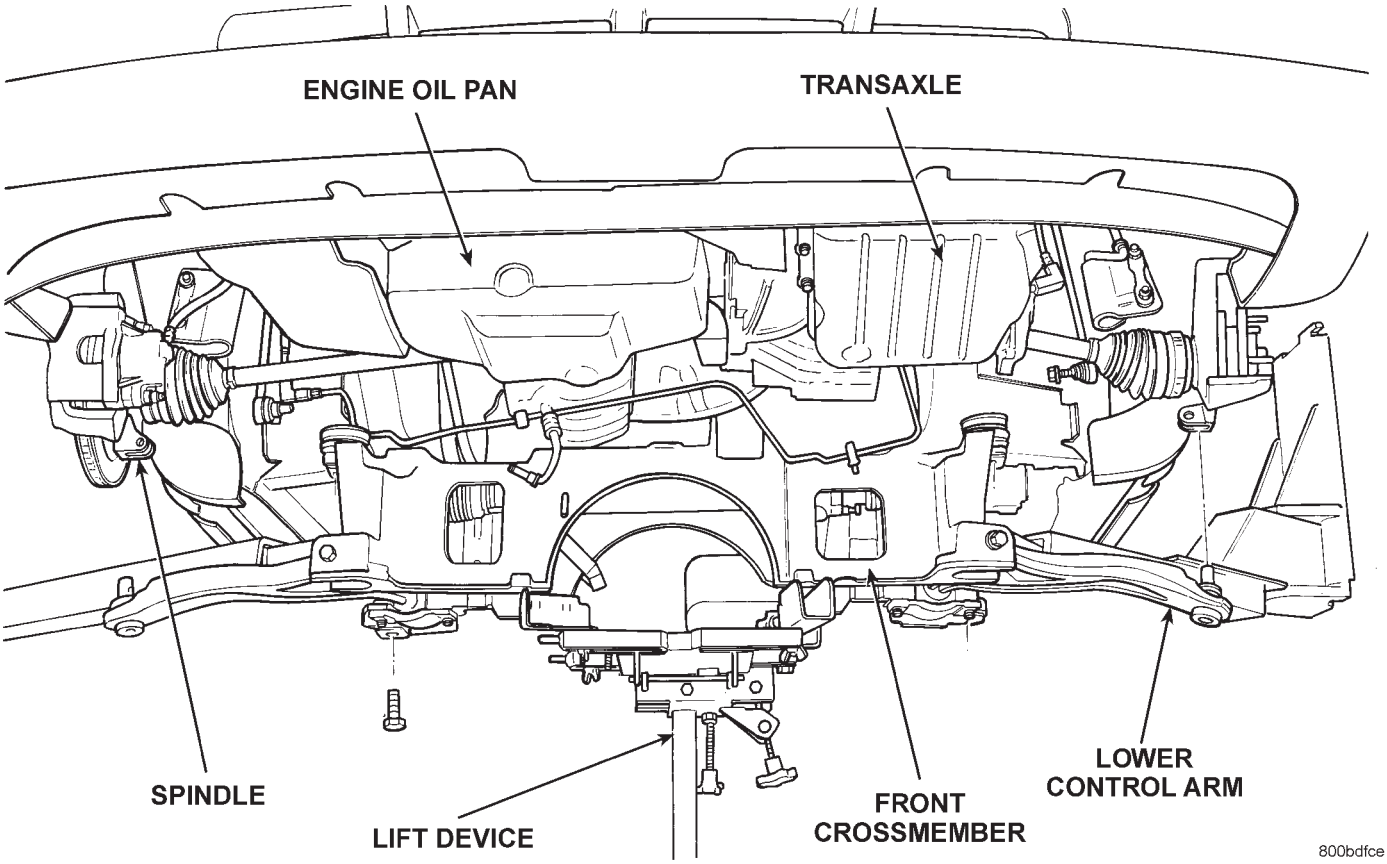


Fig. 4 Crossmember

REMOVAL AND INSTALLATION (Continued)

(7) Connect lower ball joints to lower control arms. Refer to Group 2, Suspension.
(8) Connect stabilizer bar links to ends of stabilizer bar. Refer to Group 2, Suspension.
(9) Install bolts to hold anti-lock brake sensor leads to crossmember.
(10) Install high pressure hose to pump.
(11) Connect return hose to metal tube.
(12) Tighten hose clamp at the crossmember coupling.
(13) Remove pinch-off pliers.
(14) Position steering so front wheels are straight ahead.
(15) Install steering column coupling to telescoping steering gear shaft.
(16) Install clinch bolt to hold steering column coupling to steering gear shaft.
(17) Install knee blocker reinforcement. Refer to Group 8E, Instrument Panel and Systems.
(18) Install steering column lower cover from instrument panel. Refer to Group 8E, Instrument Panel and Systems.
(19) Connect battery negative cable.

FRONT CROSSMEMBER MOUNT BUSHINGS

REMOVAL

(1) Using paint or grease pencil, mark outline of crossmember on frame rails.
(2) Loosen bolts holding crossmember to frame rails.
(3) Remove bolt on bushing that requires replacement.
(4) Allow crossmember to drop down enough to gain clearance for bushing removal.
(5) Remove bushing from vehicle.

INSTALLATION

(1) Apply rubber lube or soap to replacement bushing.
(2) Insert lower half of bushing into square hole in crossmember.
(3) Place upper half of bushing on top of crossmember aligned to receive square tube protruding upward from lower bushing half.
(4) Squeeze bushing halves together to ensure they are properly mated.
(5) Lift crossmember upward to close gap between the bushing and frame.
(6) Verify that lower bushing is fully seated into crossmember and upper bushing.
(7) Install bolt to hold bushing and crossmember to frame rail hand tight.
(8) Align crossmember to reference marks on frame rails.
(9) Tighten crossmember to frame rails attaching bolts to 163 N·m (120 ft. lbs.) torque.

SPECIFICATIONS

FRAME AND BODY OPENING 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.

VEHICLE PREPARATION

Position the vehicle on a frame alignment rack, refer to instructions provided with equipment being used. Adjust the vehicle PLP heights to the specified dimension above the work surface (datum line). Vertical dimensions can be taken from the datum line to the locations indicated were applicable. Refer to (Fig. 5), (Fig. 6), (Fig. 7), (Fig. 8), (Fig. 9), (Fig. 10) and (Fig. 11) for proper dimensions.

SPECIFICATIONS (Continued)

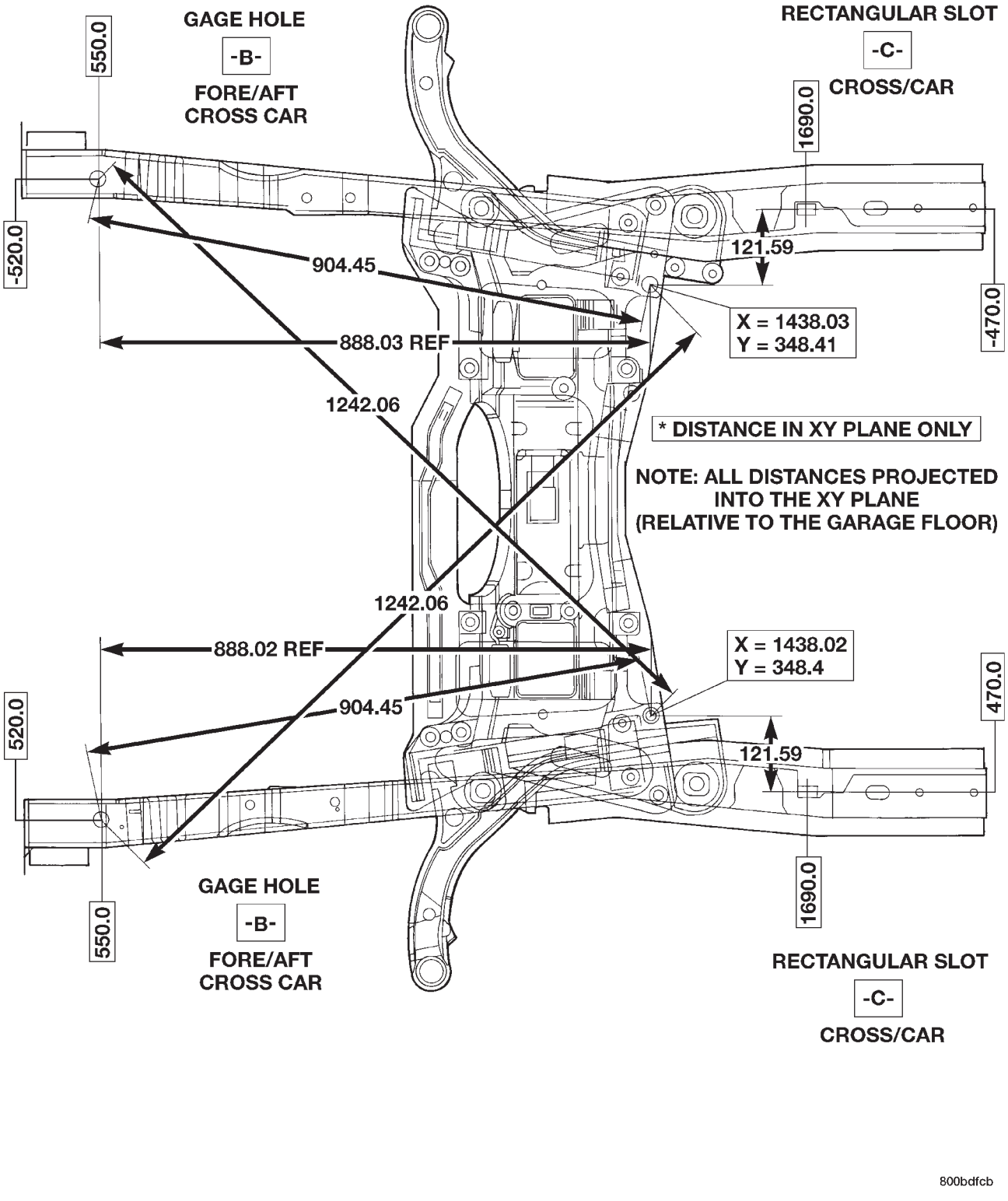


Fig. 5 Front Crossmember Dimensions

SPECIFICATIONS (Continued)

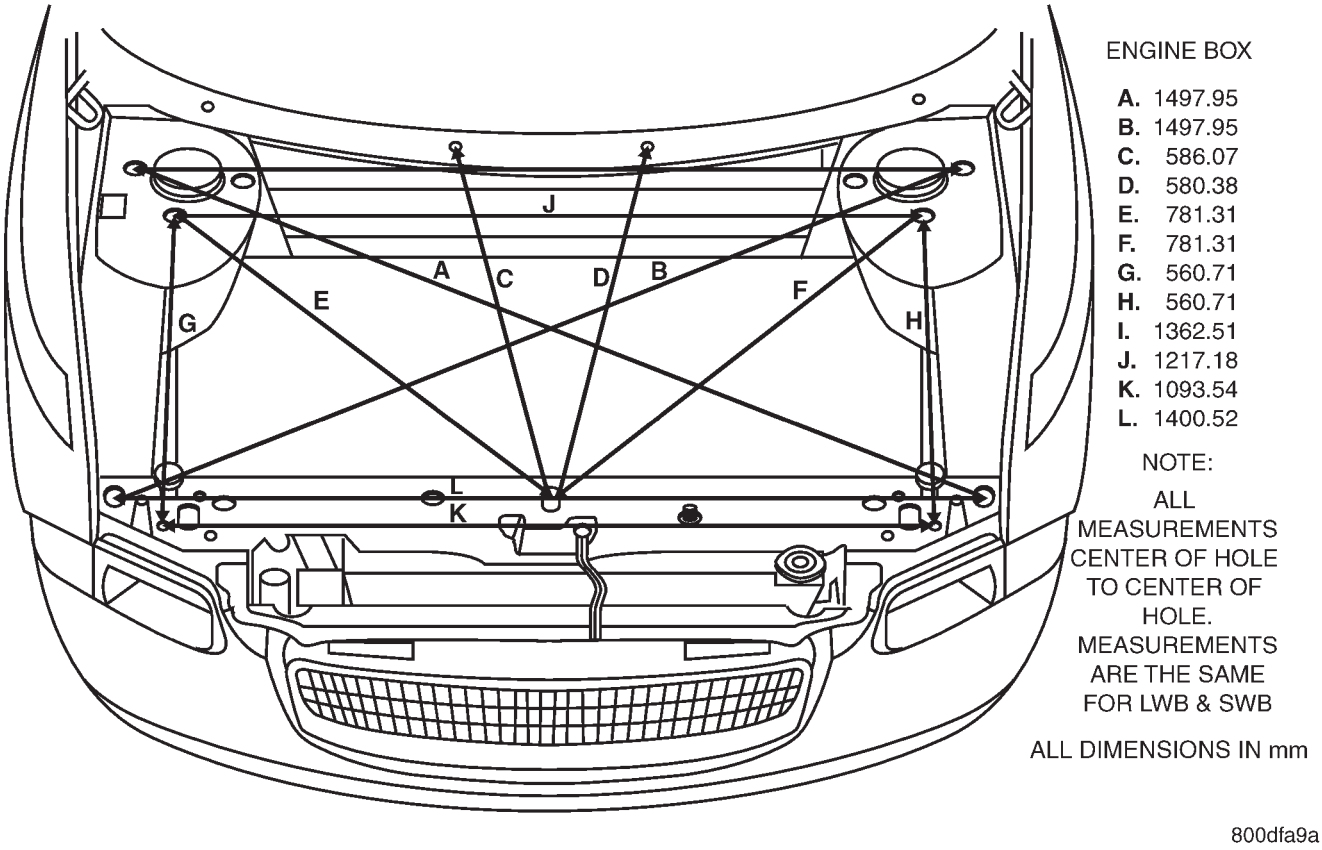


Fig. 6 Engine Compartment Top View

SPECIFICATIONS (Continued)

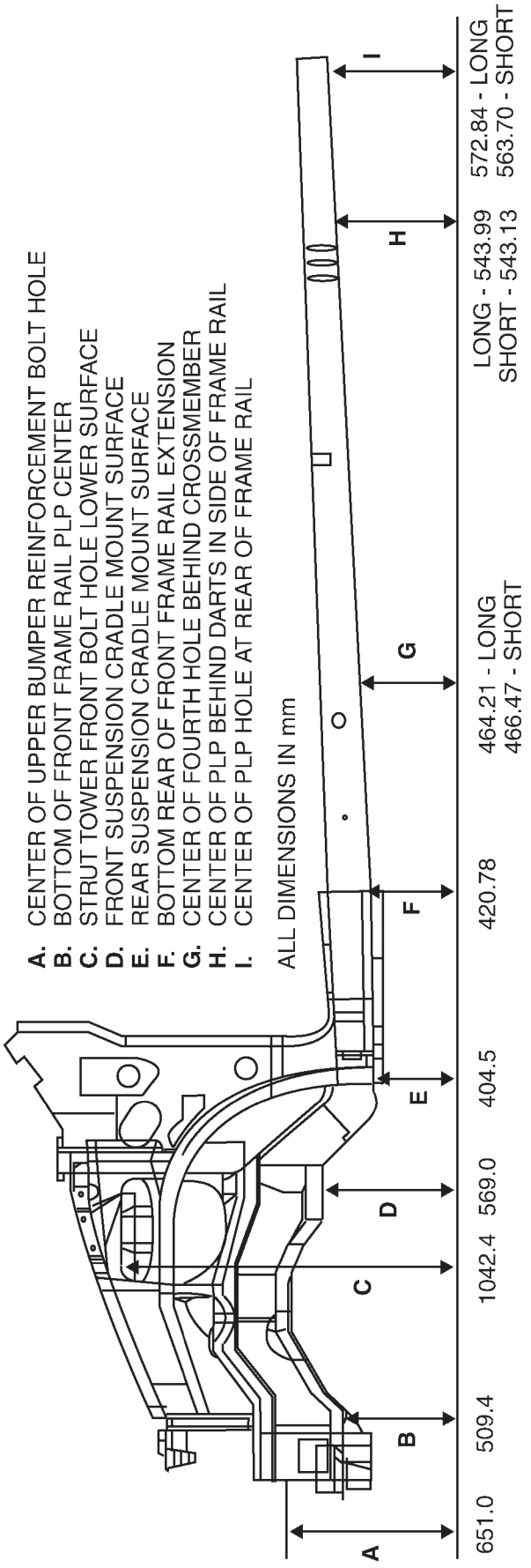
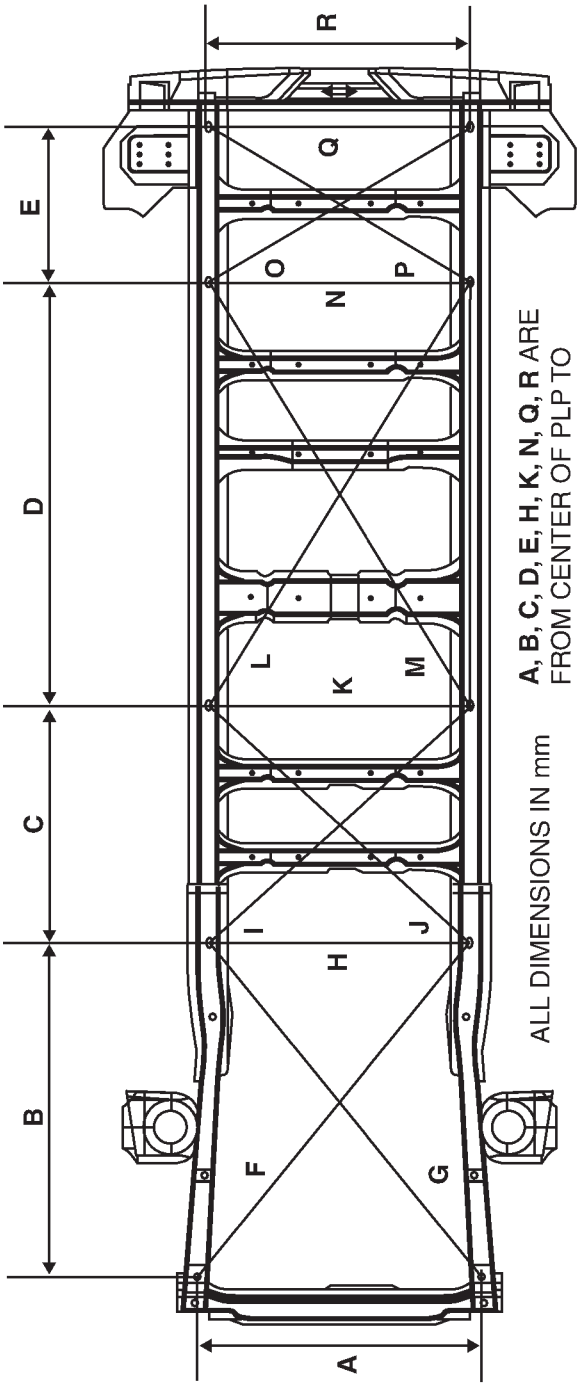


Fig. 7 Engine Compartment and Frame Rail Side View

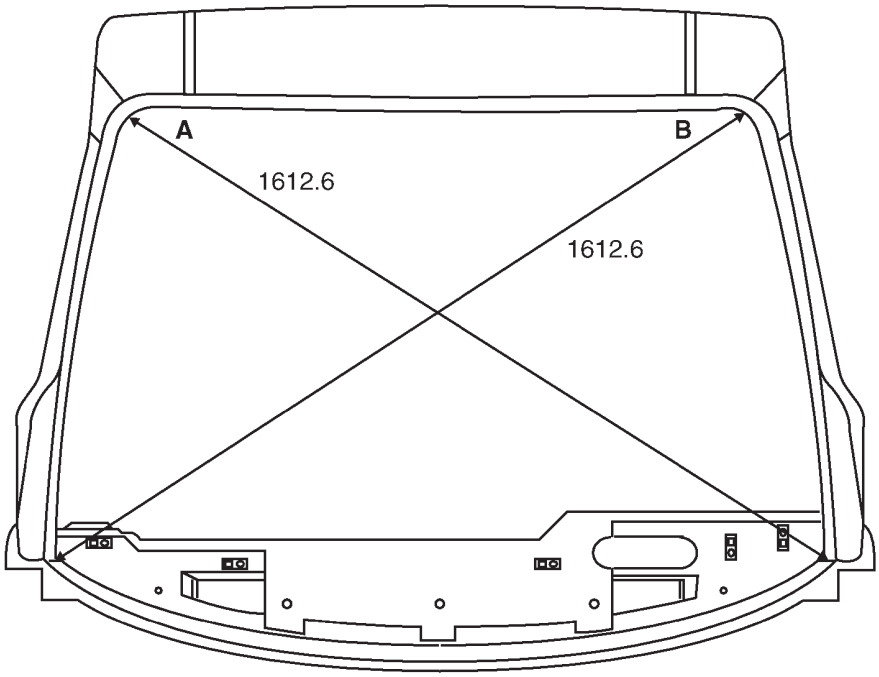
SPECIFICATIONS (Continued)



Y	LONG WHEELBASE	SHORT WHEELBASE
A.	1040.0	1040.0
B.	1251.1	1251.1
C.	889.72	890.0
D.	1559.7	1407.5
E.	563.9	377.7
F.	1599.31	1599.31
G.	1599.31	1599.31
H.	944.0	944.0
I.	1298.2	1298.30
J.	1298.2	1298.30
K.	944.0	944.0
L.	1824.85	1696.52
M.	1824.85	1696.52
N.	944.0	944.0
O.	1099.98	1016.96
P.	1099.98	1016.96
Q.	944.0	944.00
R.	944.0	944.00

Fig. 8 Full Vehicle Bottom View

SPECIFICATIONS (Continued)

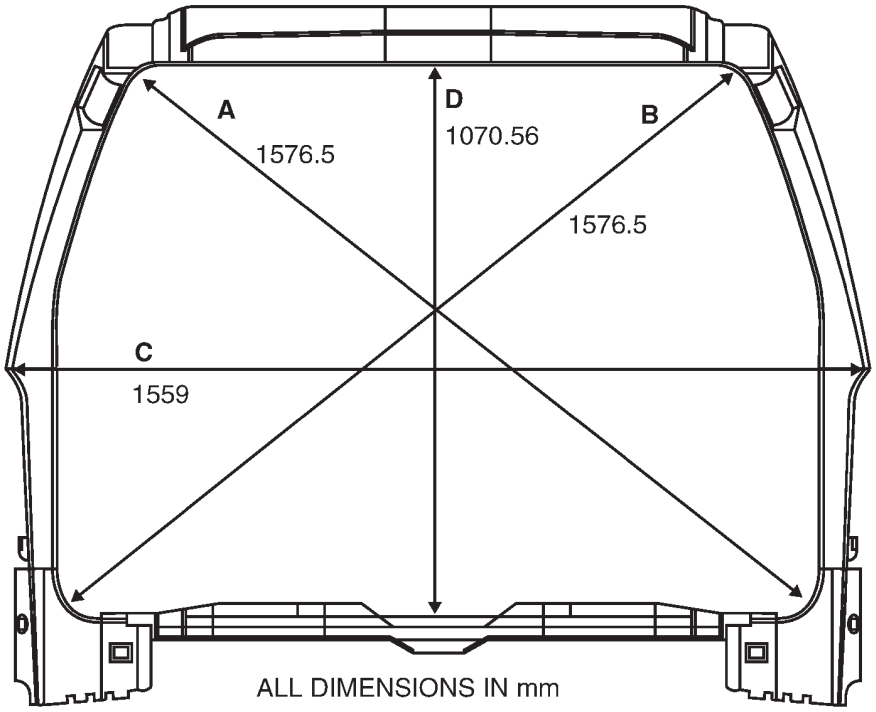


A-B CENTER OF RADIUS TO CENTER OF RADIUS, EDGE OF PINES WELD TO LOWER WINDSHIELD CORNER

ALL DIMENSIONS IN mm

800dfa98

Fig. 9 Windshield Opening



ALL DIMENSIONS IN mm

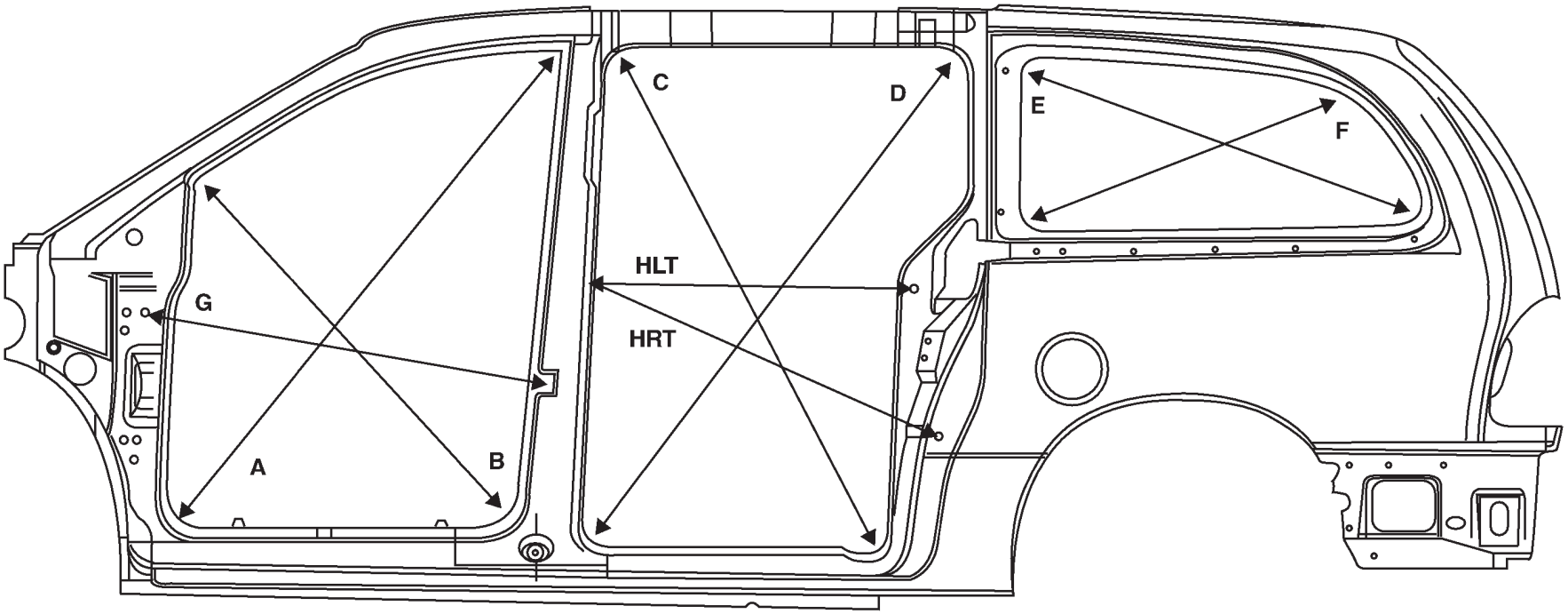
A-B CENTER OF RADIUS TO CENTER OF RADIUS

C TIP OF QUARTER PANEL TO TIP OF QUARTER PANEL

D UPPER PINCH WELD TO LEFT SIDE STRIKER BOLT

800dfa99

Fig. 10 Liftgate Opening



BODY SIDE OPENINGS

A-B-C-D-E-F CENTER OF RADIUS TO CENTER OF RADIUS AT EDGE OF PINCH WELD.

G INNER UPPER HINGE BOLT CENTER TO UPPER EDGE OF UPPER STRIKER BOLT.

H CENTER OF LARGE LATCH HOLE TO QUARTER PANEL PLP
NOTE: LEFT SIDE IS HIGHER THAN RIGHT.

A.	1457.33	
B.	1111.00	
C.	1405.79	RIGHT - 1332.85 LEFT
D.	1488.52	
E.	1038.20	LONG WHEELBASE - 745.69 SHORT WHEELBASE
F.	875.80	LONG WHEELBASE - 566.09 SHORT WHEELBASE
G.	1028.03	
H.	852.69	LEFT LONG WHEELBASE
	891.85	RIGHT SHORT AND LONG WHEELBASE

ALL DIMENSIONS IN mm

800bdfc1

Fig. 11 Body Side Openings