

FRAME AND BUMPERS

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BUMPER AND FASCIA

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SAFETY PRECAUTIONS AND WARNINGS

WARNING: BUMPER ENERGY ABSORBER UNITS CONTAIN PRESSURIZED GAS. DO NOT PUNCTURE OR HEAT ABSORBER UNIT FOR ANY REASON. PERSONAL INJURY CAN RESULT.

DO NOT VENTURE UNDER A HOISTED VEHICLE THAT IS NOT SUPPORTED ON SAFETY STANDS. PERSONAL INJURY CAN RESULT.

CAUTION: To avoid damaging a bright metal or painted finish bumper or fascia, use a padded work surface.

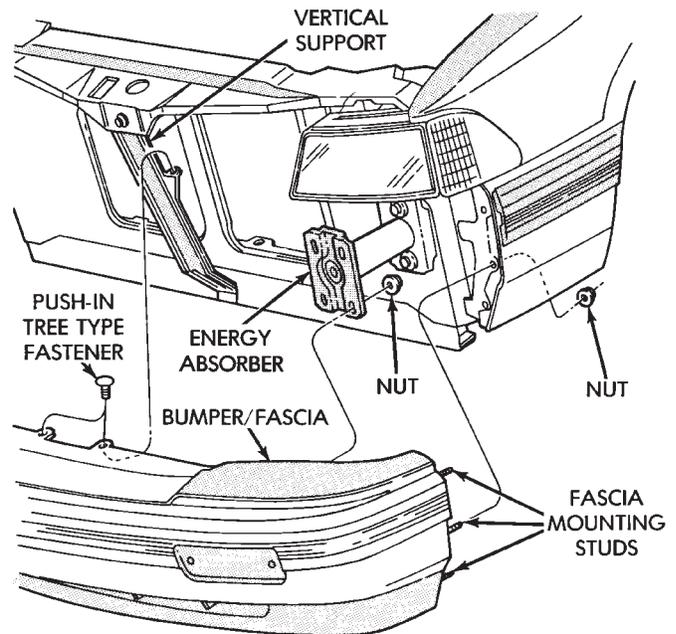
FRONT BUMPER—AA-VEHICLE

BUMPER AND STANDARD FASCIA REMOVAL (FIG. 1)

- (1) Remove socket and bulb from park and turn lamp.
- (2) Disconnect horn and fog lamp connectors (if equipped).
- (3) Remove push-in fasteners holding sight shield to vertical support in front of radiator.
- (4) Remove nuts holding fascia to fender, from behind forward flange of fender.
- (5) Support front bumper assembly on suitable lifting device and remove bolts holding bumper reinforcement to energy absorber units.

INSTALLATION

Reverse the preceding operation. Align bumper height to approximately 3 mm (1/8 in.) gap to bottom of head lamp assemblies and flush to front fenders below the side marker lamps.



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Fig. 1 Standard Front Bumper—AA-Vehicle

BUMPER AND WRAP-AROUND FASCIA REMOVAL (FIG. 2)

- (1) Remove socket and bulb from park and turn lamp.
- (2) Disconnect horn and fog lamp connectors (if equipped).
- (3) Remove push-in plastic fasteners at forward edge of front wheel opening.
- (4) Remove pal-nut fasteners from behind front fenders rearward of the side marker lamp.
- (5) Remove push-in, fasteners holding sight shield to vertical support in front of radiator.
- (6) Remove nuts holding fascia to fender, from behind forward flange of fender.
- (7) Support front bumper on suitable lifting device and remove bolts holding bumper reinforcement to energy absorber units.

INSTALLATION

Reverse the preceding operation. Align bumper height to approximately 3 mm (1/8 in.) gap to bottom of head lamp assemblies and flush to front fenders below the side marker lamps.

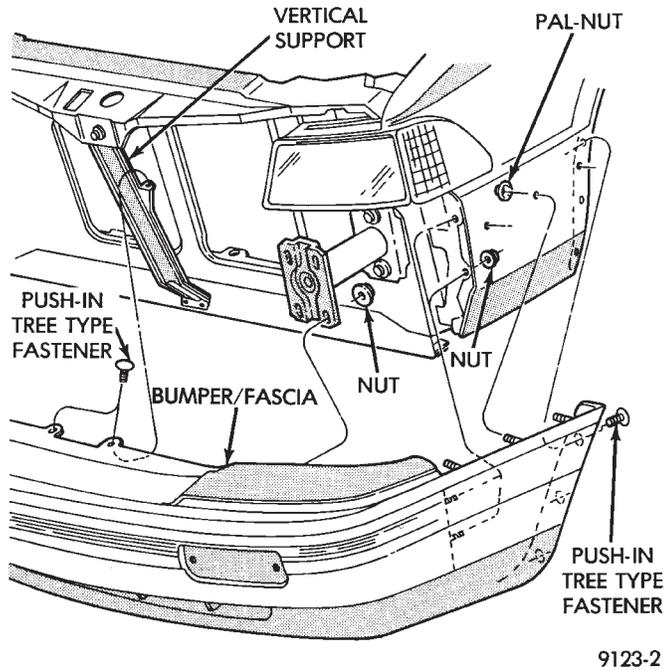


Fig. 2 Wrap-around Front Bumper—AA-Vehicle

BUMPER OVERHAUL (FIG. 3)

- (1) Position bumper assembly on a suitable padded work surface to avoid damage to painted fascia.
- (2) Remove sight shield push-in, fasteners and separate shield from assembly.
- (3) Remove air dam screws and push-in fasteners and lift dam out of retaining channels at ends of fas-

cia. Remove dam retaining channels and reinforcements from fascia (if equipped).

- (4) Remove park and turn signal lamp assemblies, see Group 8L, Lamps
- (5) Remove fog lamp bracket from bottom of bumper reinforcement (if equipped).
- (6) Remove horns from back of bumper reinforcement.
- (7) Remove lower air intake louver screws and push-in fastener and separate louver from fascia.
- (8) Remove upper reinforcement to fascia attaching bolts and separate reinforcement from fascia.
- (9) Straighten toy-tab fasteners holding horizontal moulding to fascia and separate moulding from two sided adhesive tape behind moulding. Remove moulding from fascia.

To assemble, reverse the preceding operation.

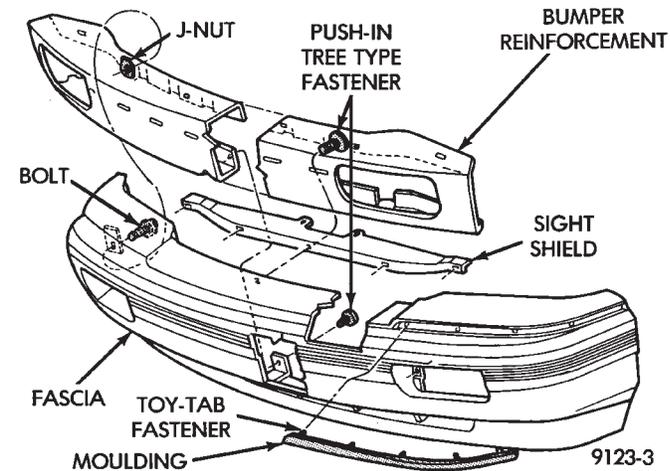


Fig. 3 Front Bumper Overhaul—AA-Vehicle

FRONT BUMPER—AC VEHICLE

FRONT BUMPER AND STANDARD FASCIA REMOVAL—AC/D OR AC/C-H-BODY (FIG. 4)

- (1) Remove nuts holding fascia to fender, from behind forward flange of fender.
- (2) Support front bumper assembly on suitable lifting device and remove bolts holding bumper reinforcement to energy absorber units.
- (3) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation. Align bumper height to fit flush to bottom of head lamp assemblies and grille.

FRONT BUMPER OVERHAUL—AC1 OR AC/C-H-BODY—(FIG. 4)

- (1) Position bumper assembly on a suitable padded

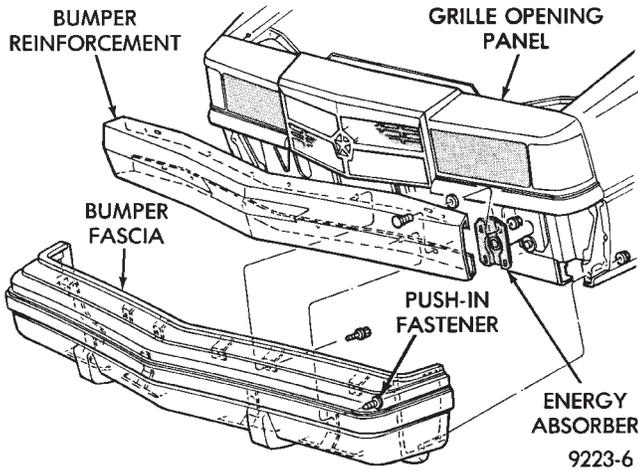


Fig. 4 Front Bumper—AC or AC/C-H-Body

work surface to avoid damage to painted fascia.

(2) Remove push-in fasteners holding fascia to reinforcement.

(3) Remove upper reinforcement to fascia attaching bolts and separate reinforcement from fascia.

To assemble, reverse the preceding operation.

FRONT BUMPER AND FASCIA REMOVAL—AC/C-BODY (FIG. 5)

(1) Raise vehicle and support on safety stands.

(2) Remove push-in fasteners holding bumper fascia to front wheel opening lip.

(3) Support bumper on a suitable lifting device.

(4) Remove nuts holding bumper reinforcement to energy absorbers.

(5) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation.

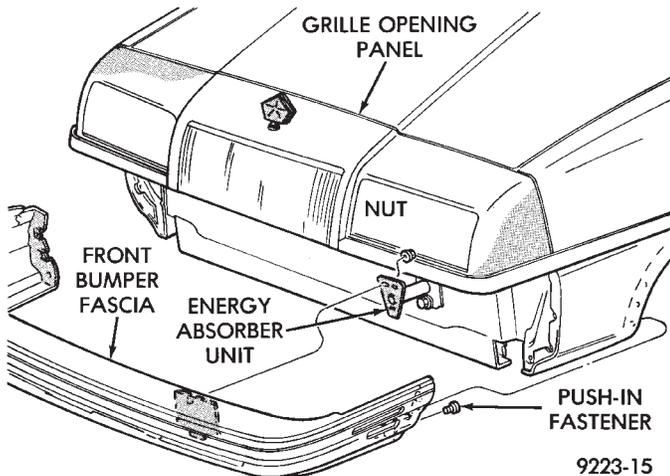


Fig. 5 Front Bumper—AC/C-Body

BUMPER OVERHAUL—AC/C-BODY

(1) Position bumper assembly on a suitable padded work surface to avoid damage to painted fascia.

(2) Remove bolts holding bumper face bar to reinforcement.

(3) Remove push-in fasteners holding fascia to reinforcement.

(4) Separate reinforcement from fascia.

To assemble, reverse the preceding operation.

FRONT BUMPER—AG-VEHICLE

FRONT BUMPER FASCIA REMOVAL (FIG. 6)

(1) Remove headlamp and fog lamp (if equipped) assemblies, refer to Group 8L, Lamps.

(2) Raise vehicle and support on safety stands.

(3) Remove radiator closure panel sight shield.

(4) Remove push-in fasteners holding fascia to front fender wheel opening flange.

(5) Remove nuts holding fascia to fender from above side marker reflectors. Remove fender splash shields if necessary.

(6) Remove nuts holding front fascia headlamp mounting panel to forward edge of fenders.

(7) Remove bolts holding fascia headlamp mounting panel to radiator closure panel brace.

(8) Remove push-in fasteners holding fascia to bottom of bumper reinforcement.

(9) Separate front bumper fascia and headlamp mounting panel from vehicle.

INSTALLATION

Reverse the preceding operation. If headlamps require aiming, refer to Group 8L, Lamps.

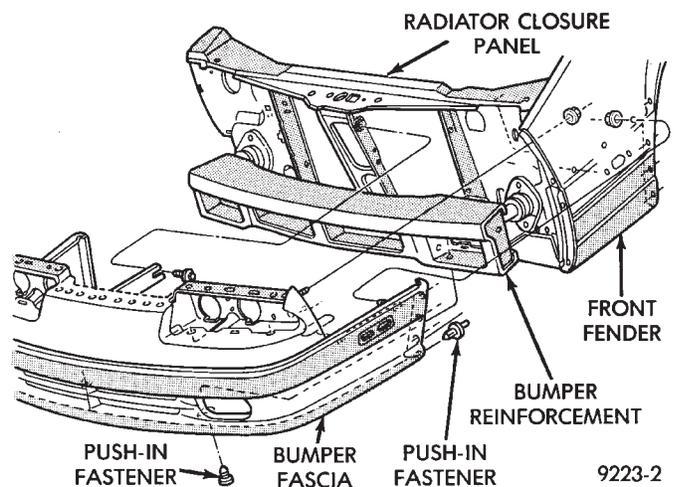


Fig. 6 Front Bumper Fascia—AG-Vehicle

**HEADLAMP MOUNTING PANEL
REMOVAL—AG-VEHICLE (FIG. 7)**

- (1) Remove all lamp assemblies, refer to group 8L, Lamps.
- (2) Remove front bumper fascia.
- (3) Remove bolts holding fascia to headlamp mounting panel ends.
- (4) Remove push-in fasteners holding fascia to headlamp mounting panel.
- (5) Separate headlamp mounting panel from fascia.

INSTALLATION

Reverse the preceding operation

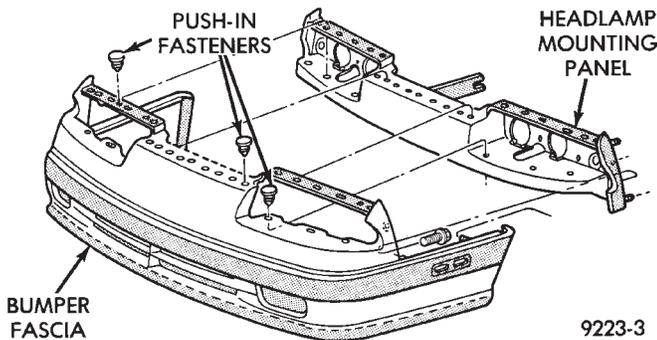


Fig. 7 Headlamp Mounting Panel—AG-Vehicle

**FRONT BUMPER REINFORCEMENT
REMOVAL—AG-VEHICLE (FIG. 8)**

- (1) Remove bumper fascia as necessary to gain clearance to remove bumper reinforcement.
- (2) Remove nuts holding bumper reinforcement to energy absorber units.
- (3) Separate bumper reinforcement from vehicle carriage

INSTALLATION

Reverse the preceding operation

**FRONT BUMPER ENERGY ABSORBER
REMOVAL—AG-VEHICLE (FIG. 8)**

- (1) Remove front fascia and bumper reinforcement as necessary to remove absorber unit.
- (2) Remove bolts holding energy absorber unit to front closure panel.
- (3) Separate energy absorber from vehicle.

INSTALLATION

Reverse the preceding operation.

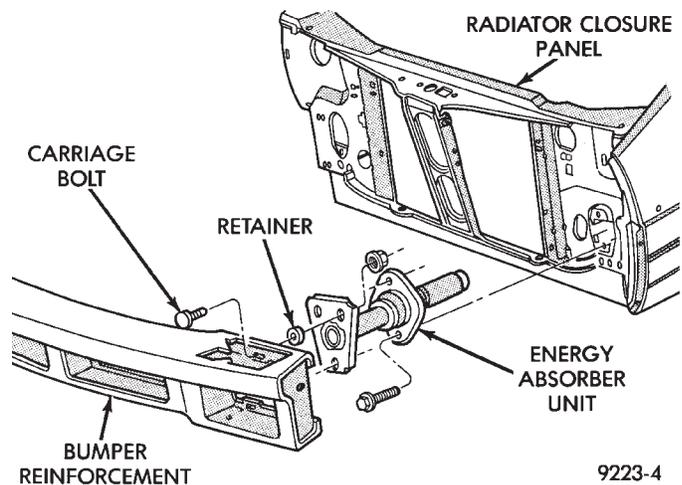


Fig. 8 Front Bumper Reinforcement and Energy Absorber Unit—AG-Vehicle

FRONT BUMPER—AJ-VEHICLE

REMOVAL (FIG. 9)

- (1) Remove socket and bulb from park and turn lamp.
- (2) Remove nuts holding fascia to fender, from behind forward flange of fender.
- (3) Support front bumper assembly on suitable lifting device and remove bolts holding bumper reinforcement to energy absorber units.

INSTALLATION

Reverse the preceding operation. Align bumper height to approximately 5 mm (0.200 in.) gap to bottom of grille and flush to front fenders on the sides.

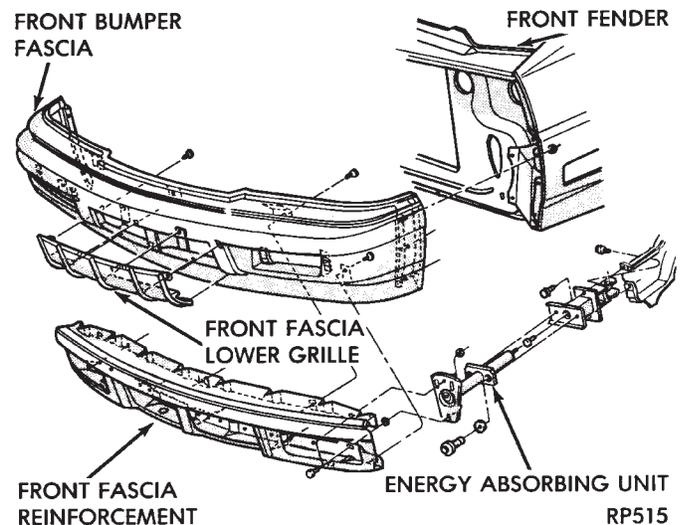


Fig. 9 Front Bumper and Fascia—AJ-Vehicle

FRONT BUMPER—AP-VEHICLE

REMOVAL (FIG. 10)

- (1) Raise vehicle and support on safety stands.

- (2) Disconnect front park and turn signal lamp wire connector.
- (3) Remove front side marker lamp socket from lamp assembly and position socket out of the way.
- (4) Remove bolt holding front bumper fascia to wheelhouse splash shield.
- (5) Remove nuts holding fascia to front fender.
- (6) Support front bumper on lifting device.
- (7) Remove bolts holding front bumper reinforcement to energy absorber units.
- (8) Separate front bumper from vehicle.

INSTALLATION

Reverse the preceding operation.

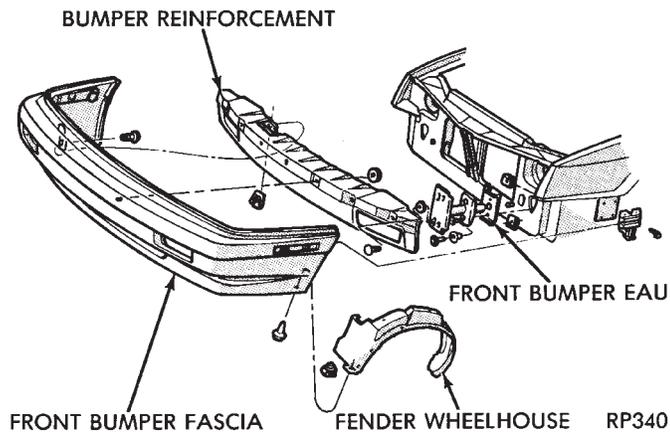


Fig. 10 Front Bumper—AP-Vehicle

FRONT BUMPER—AY-VEHICLE

BUMPER AND FASCIA REMOVAL—AY/P-BODY (FIG. 11)

- (1) Remove wheel house splash shields as necessary to gain access to fascia attaching nuts.
- (2) Remove lower fascia bottom extension cover.
- (3) Remove nuts holding fascia to fender, from behind forward flange of fender.
- (4) Support front bumper assembly on suitable lifting device.
- (5) Remove nuts holding bumper to energy absorber units.
- (6) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation. Align bumper height to fit flush to bottom of filler panel.

FRONT BUMPER AND FASCIA REMOVAL—AY/S-BODY (FIG. 12)

- (1) Raise vehicle and support on safety stands.
- (2) Remove push-in fasteners holding bumper fascia to front wheel opening lip.
- (3) Support bumper on a suitable lifting device.

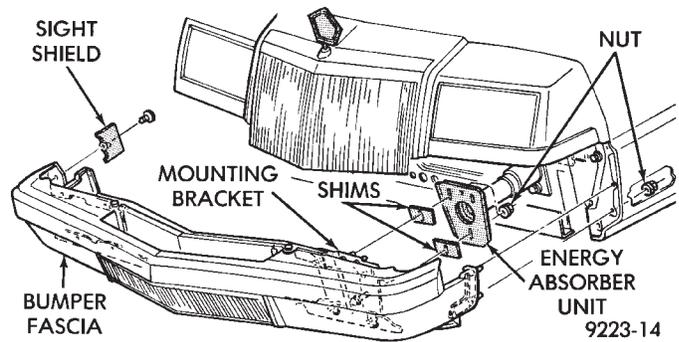


Fig. 11 Front Bumper and Fascia—AY/P-Body

- (4) Remove nuts holding bumper reinforcement to energy absorbers.
- (5) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation.

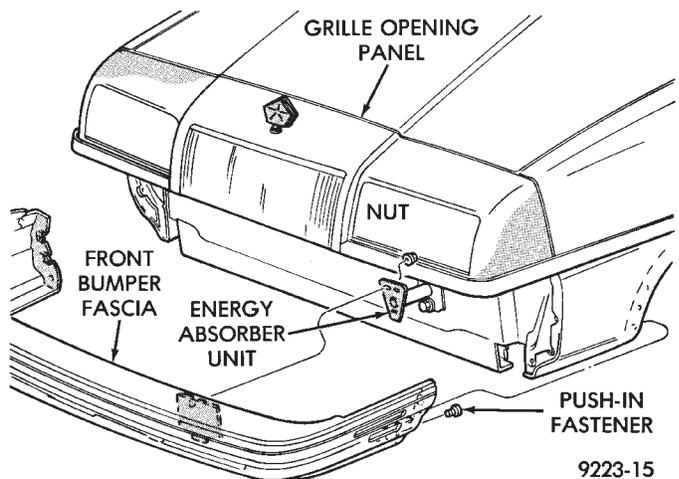


Fig. 12 Front Bumper—AY/S-Body

BUMPER OVERHAUL—AY/S-BODY

- (1) Position bumper assembly on a suitable padded work surface to avoid damage to painted fascia.
 - (2) Remove bolts holding bumper face bar to reinforcement.
 - (3) Remove push-in fasteners holding fascia to reinforcement.
 - (4) Separate reinforcement from fascia.
- To assemble, reverse the preceding operation.

REAR BUMPER—AA-VEHICLE

REAR BUMPER AND STANDARD FASCIA REMOVAL (FIG. 13)

- (1) Open trunk lid and separate quarter panel liners (if equipped) from tail panel area.
- (2) Remove rear fascia attaching nuts at rear of inner quarter panel drop-down wells.

(3) Remove lower fascia push-in fasteners holding fascia to bottom of bumper reinforcement.

(4) Remove fascia nuts holding fascia to trunk opening panel.

(5) Remove fascia bolts holding fascia to ends of bumper reinforcement.

(6) Separate fascia from reinforcement and separate fascia from vehicle.

(7) Support bumper reinforcement. Remove reinforcement attaching bolts and separate assembly from energy absorbers.

INSTALLATION

Reverse the preceding operation.

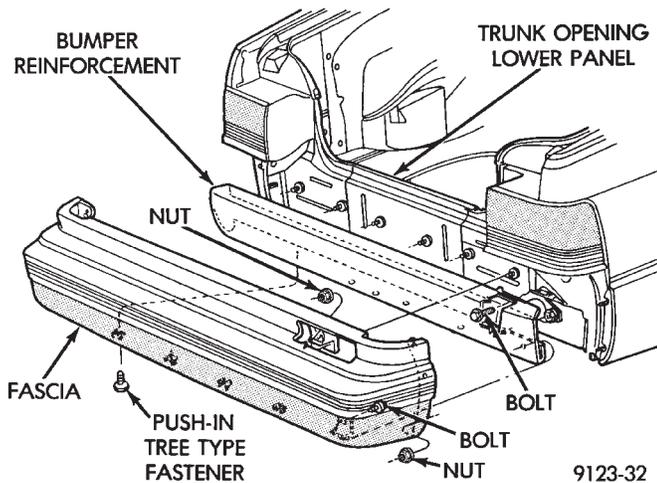


Fig. 13 Standard Rear Bumper—AA-Vehicle

REAR BUMPER AND WRAP-AROUND FASCIA REMOVAL (FIG. 14)

(1) Remove push-in fasteners holding rear fascia to rearward edge of wheel opening.

(2) Open trunk lid and separate quarter panel liner from tail panel area, if equipped.

(3) Remove pal-nut fasteners located behind quarter panel, holding fascia to quarter panel.

(4) Perform steps 2 through 7 of Rear Bumper and Standard Fascia Removal/Installation procedure.

INSTALLATION

Reverse the preceding operation.

REAR BUMPER—AC-VEHICLE

REMOVAL—AC/D-BODY (FIG. 15)

(1) Disconnect license plate lamps wire connectors.

(2) Remove nuts holding fascia to quarter panel ends.

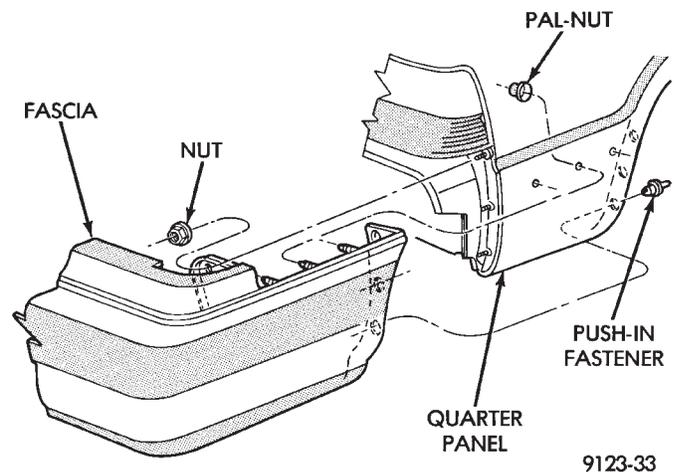


Fig. 14 Wrap-around Rear Bumper—AA-Vehicle

(3) Support bumper assembly on suitable lifting device and remove bolts holding bumper reinforcement to energy absorber units.

(4) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation. Align bumper height to fit flush to bottom of tail lamp.

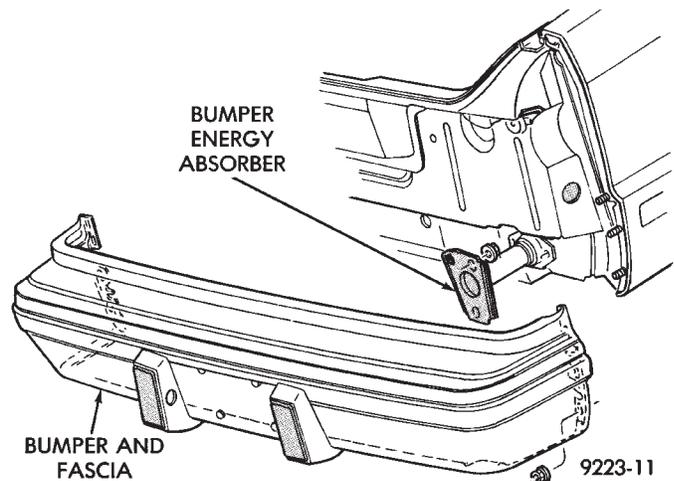


Fig. 15 Rear Bumper—AC/D-Body

REAR BUMPER OVERHAUL—AC/D-BODY (FIG. 16)

(1) Position bumper assembly on a suitable padded work surface to avoid damage to painted fascia.

(3) Remove push-in fasteners holding fascia to bottom of reinforcement.

(4) Remove bolts holding fascia to reinforcement and separate fascia from reinforcement.

(5) Remove bolts holding bumper guards to fascia and separate guards from fascia.

To assemble reverse the preceding operation.

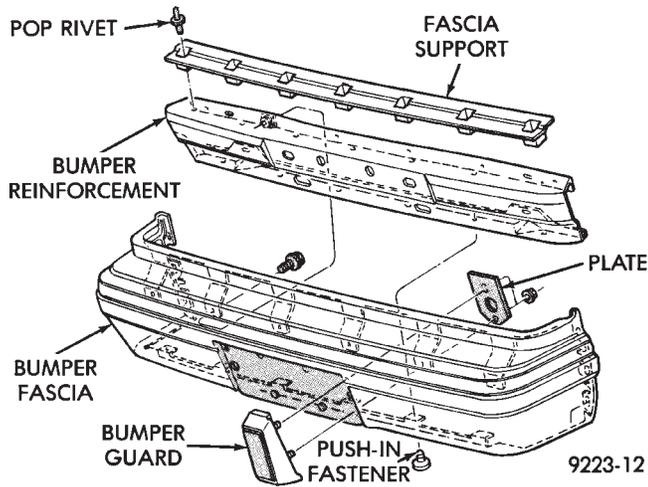


Fig. 16 Rear Bumper Overhaul—AC/D-Body

REAR BUMPER REMOVAL—AC/C-BODY (FIG. 17)

- (1) In luggage compartment, separate liners from quarter panels to gain access to fascia nuts.
- (2) Remove nuts holding bumper fascia to quarter panels.
- (3) Remove fasteners holding bumper fascia to wheel opening flange.
- (4) Disconnect license plate lamp wire connectors.
- (5) Remove bolts holding bumper to rear closure panel.
- (6) Remove nuts holding bumper to energy absorber units.
- (7) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation.

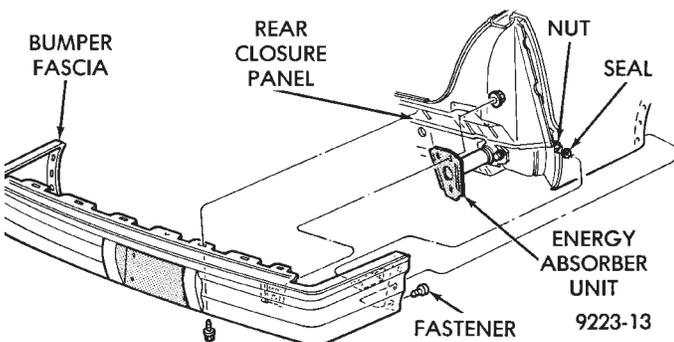


Fig. 17 Rear Bumper—AC/C-Body

REAR BUMPER—AG-VEHICLE

REMOVAL (FIG. 18)

- (1) Raise vehicle and support on safety stands.
- (2) Remove nuts holding rear fascia to luggage compartment tail panel.

- (3) Remove nuts holding fascia ends to quarter panel end flanges.
- (4) Remove pop-rivets holding bumper fascia to wheel lip flanges.
- (5) Remove nuts holding bumper fascia to quarter panel along belt line.
- (6) Support rear bumper assembly on lifting device.
- (7) Remove nuts holding rear bumper reinforcement to energy absorbers.
- (8) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation.

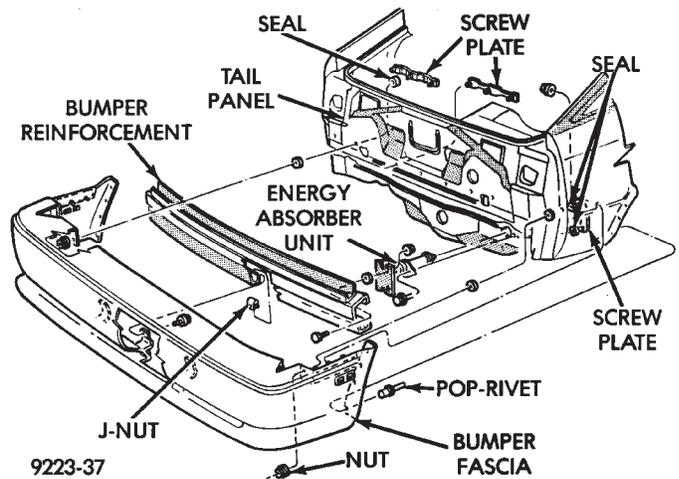


Fig. 18 Rear Bumper Fascia and Reinforcement—AG-Vehicle

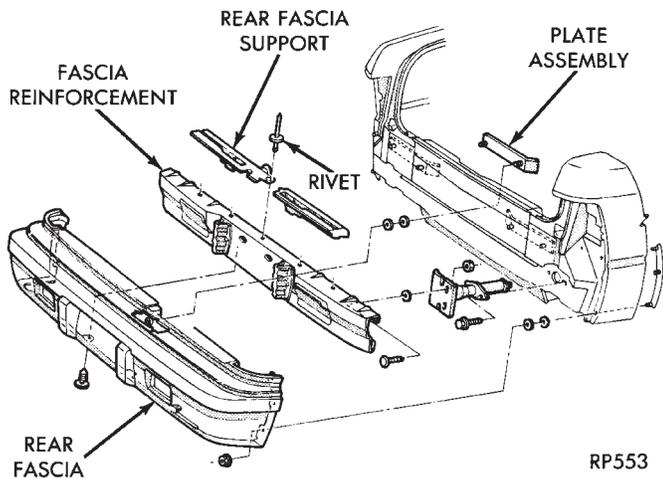
REAR BUMPER—AJ-VEHICLE

REMOVAL (FIG. 19)

- (1) Remove nuts holding rear fascia to quarter panel ends.
- (2) Remove push-in fasteners holding fascia to bottom of bumper reinforcement.
- (3) Remove nuts holding fascia to trunk tail panel.
- (4) Remove bolts holding fascia to ends of bumper reinforcement.
- (5) Separate fascia from reinforcement and separate fascia from vehicle.
- (6) Support bumper reinforcement on a lifting device. Remove bolts holding reinforcement to energy absorbers. Separate reinforcement from energy absorbers.

INSTALLATION

Reverse the preceding operation.



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Fig. 19 Rear Bumper and Fascia—AJ-Vehicle

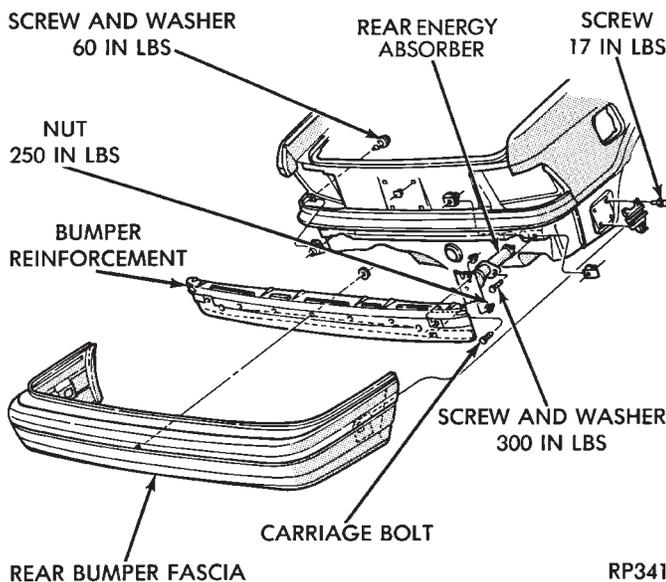
REAR BUMPER—AP-VEHICLE

REMOVAL (FIG. 20)

- (1) Raise vehicle and support on safety stands.
- (2) Support rear bumper on lifting device.
- (3) Remove bolts holding rear bumper reinforcement to energy absorber units.
- (4) Pull rear bumper assembly rearward to disengage retainers from quarter panel.
- (5) Separate front bumper from vehicle.

INSTALLATION

Reverse the preceding operation.



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Fig. 20 Rear Bumper

REAR BUMPER—AY-VEHICLE

REAR BUMPER REMOVAL—AY/P-BODY (FIG. 21)

- (1) Remove nuts holding fascia to quarter panel ends.

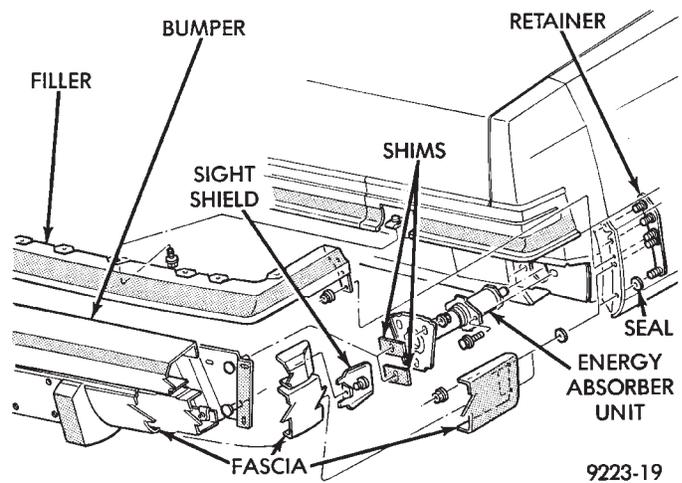
- (2) Support bumper assembly on suitable lifting device and remove bolts holding bumper reinforcement to energy absorber units.
- (3) Separate bumper from vehicle.

INSTALLATION

Reverse the preceding operation. Align bumper height to fit flush to bottom of tail lamp.

REAR BUMPER OVERHAUL—AY/P-BODY

- (1) Position bumper assembly on a suitable padded work surface to avoid damage to painted fascia.
 - (2) Remove bolts holding bumper face bar to reinforcement and separate face bar from assembly.
 - (3) Remove push-in fasteners holding fascia to reinforcement.
 - (4) Remove upper reinforcement to fascia attaching bolts and separate reinforcement from fascia.
- To assemble, reverse the preceding operation.

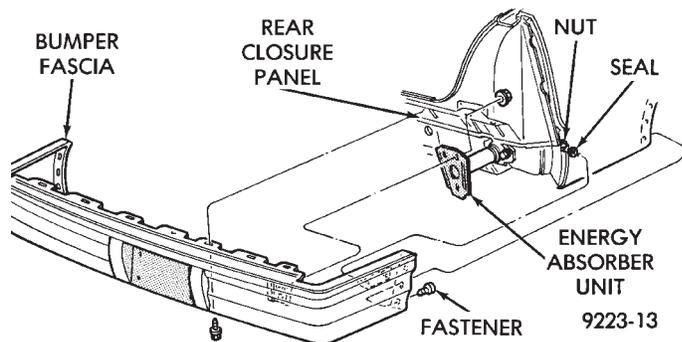


9223-19

Fig. 21 Rear Bumper—AY/P-Body

REAR BUMPER REMOVAL—AY/S-BODY (FIG. 22)

- (1) In luggage compartment, separate liners from quarter panels to gain access to fascia nuts.



9223-13

Fig. 22 Rear Bumper—AC/S-Body

- (2) Remove nuts holding bumper fascia to quarter panels.
- (3) Remove fasteners holding bumper fascia to wheel opening flange.
- (4) Disconnect license plate lamp wire connectors.
- (5) Remove bolts holding bumper to rear closure panel.

- (6) Remove nuts holding bumper to energy absorber units.
- (7) Separate bumper from vehicle.

REAR BUMPER INSTALLATION

Reverse the preceding operation.

FRAME

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GENERAL INFORMATION

In this section, references are made to Vehicle Family (Body) codes. To determine the vehicle family identification code, refer to the Introduction Group at the front of this manual.

FRAME DIMENSIONS

Frame dimensions are listed in metric scale then converted to inch scale listed in parenthesis. Engine compartment charts include front suspension upper strut damper mounting tower location. 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 level work surface. Using screw or bottle jacks, adjust the vehicle height to the specified PLP dimension above the Datum Line (work surface). Vertical dimensions can be taken from the datum line to the PLP.

ENGINE COMPARTMENT DIMENSIONS

Refer to Fig. 1, 2, 3, 4 or 5.

FRONT FRAME DIMENSIONS

Refer to Fig. 6

REAR FRAME DIMENSIONS

Refer to Fig. 7, 8, 9, 10 or 11.

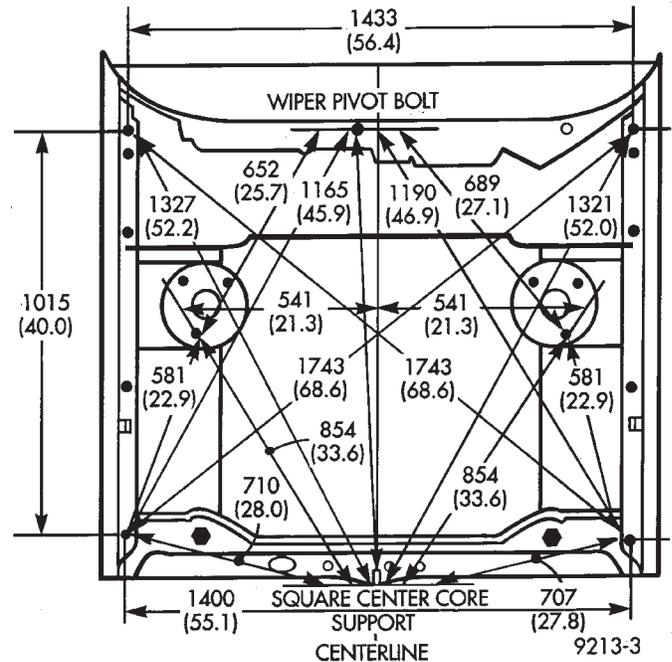


Fig. 1 Engine Compartment Dimensions—AA-Body

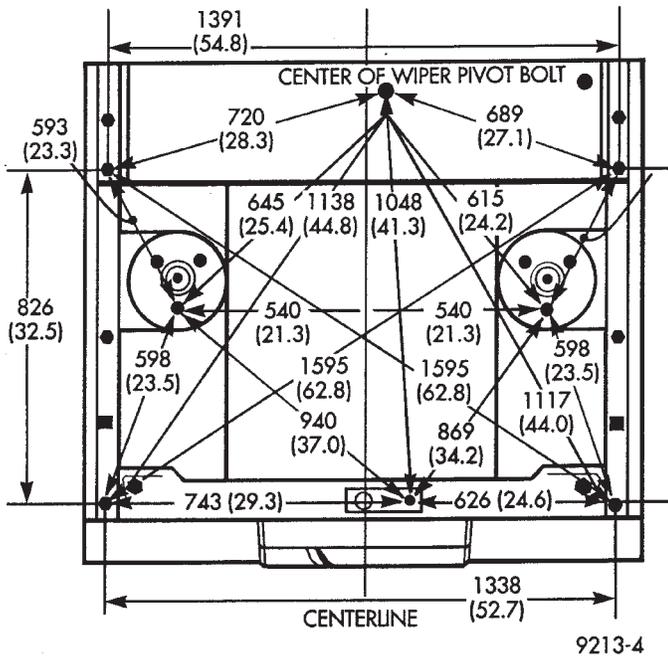


Fig. 2 Engine Compartment Dimensions—AC-Body

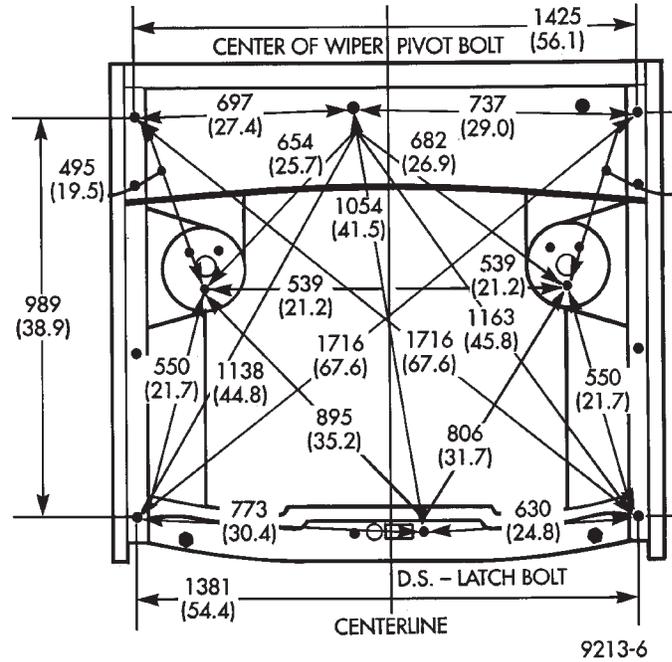


Fig. 4 Engine Compartment Dimensions—AJ-Body

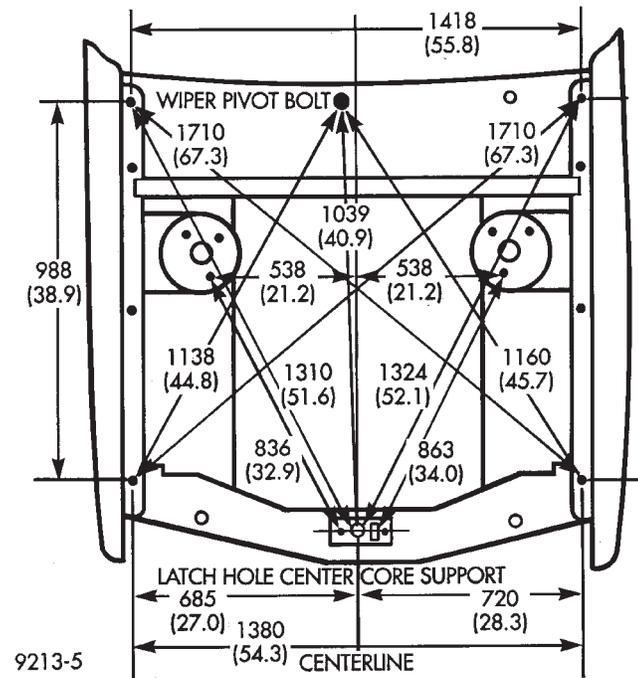


Fig. 3 Engine Compartment Dimensions—AG-Body

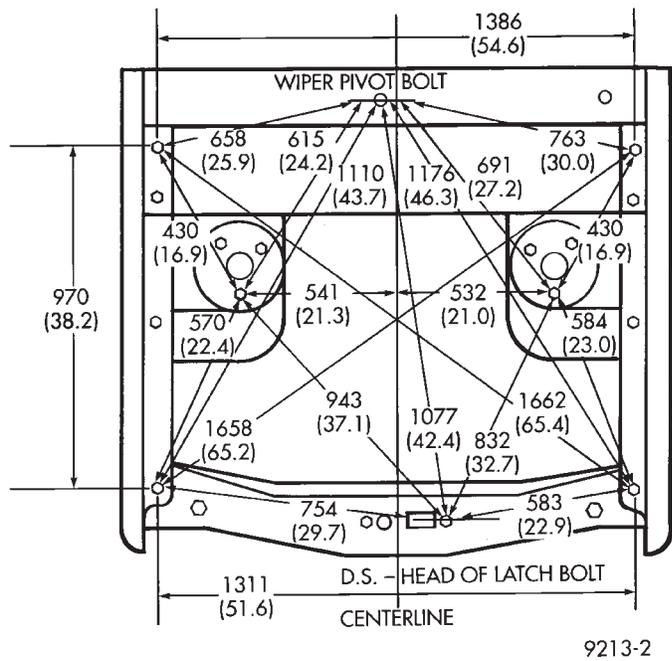
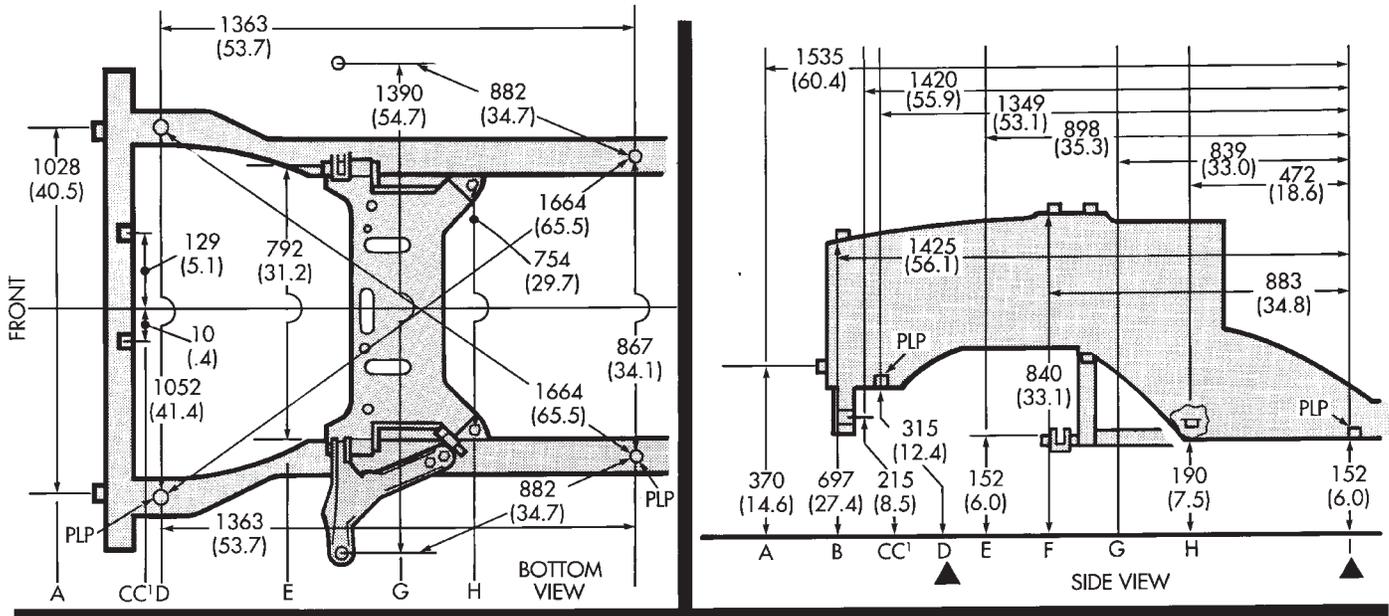


Fig. 5 Engine Compartment Dimensions—AP-Body

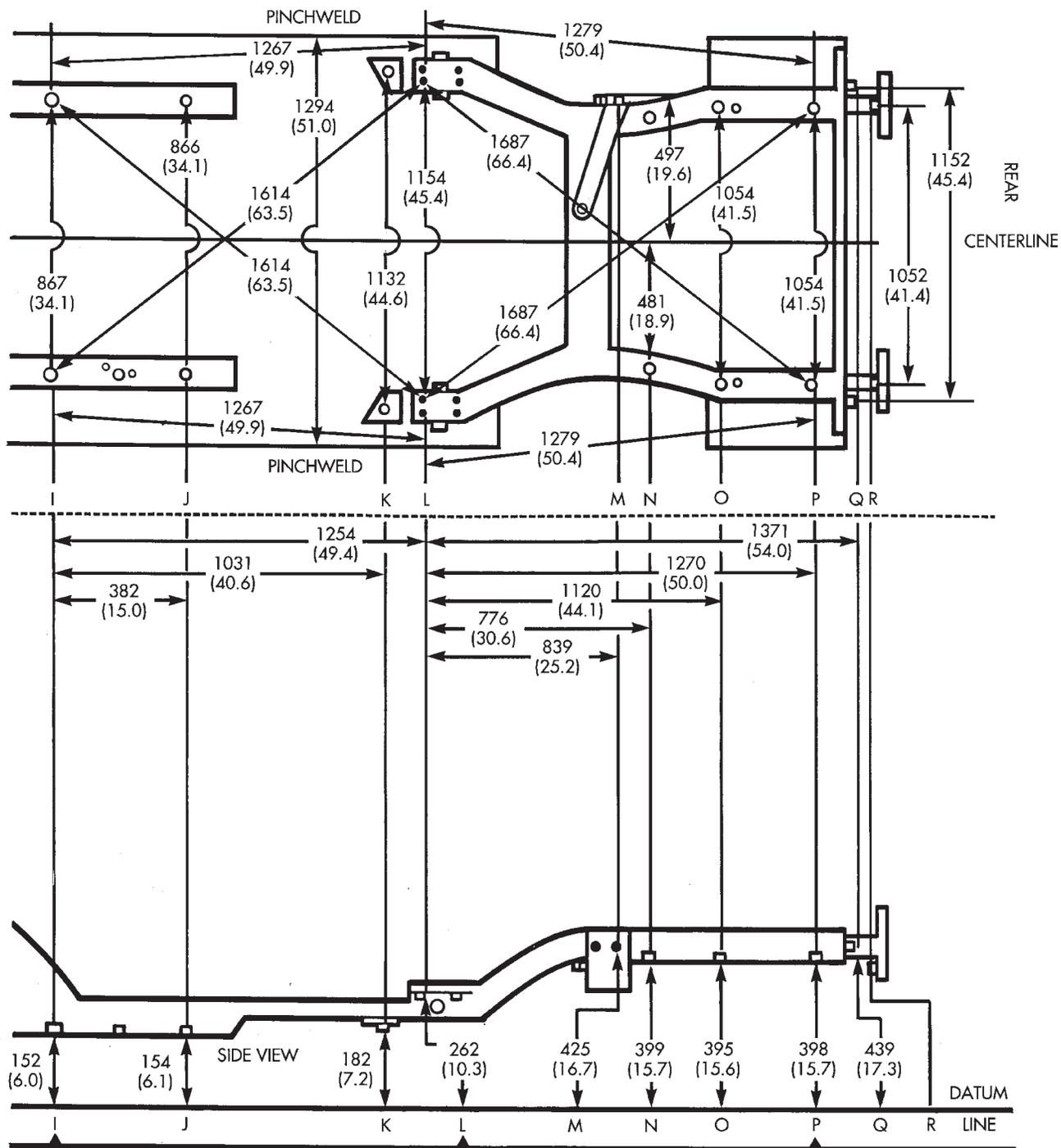


MEASURING POINT DESIGNATIONS

- | | |
|---|--|
| <ul style="list-style-type: none"> A - Tip of Lower Bolt - Front Bumper Bracket B - Head of Front Fender Bolt C - D.S. - Center of Threaded Hole for Front Motor Mount C' - P.S. - Center of Threaded Hole for Front Motor Mount D - Center of 25 mm (1") Round Hole (PLP) | <ul style="list-style-type: none"> E - Front Tip of Bolt - Front Pivot on Control Arm F - Tip of Front Stud on Strut Tower G - Center of Lower Ball Joint H - Head of Rear Bolt - Front Subframe Mount I - Center of 25 mm (1") Round Hole (PLP) ▲ - Datum Line Control Points |
|---|--|

9213-1

Fig. 6 Front Frame Dimensions—All

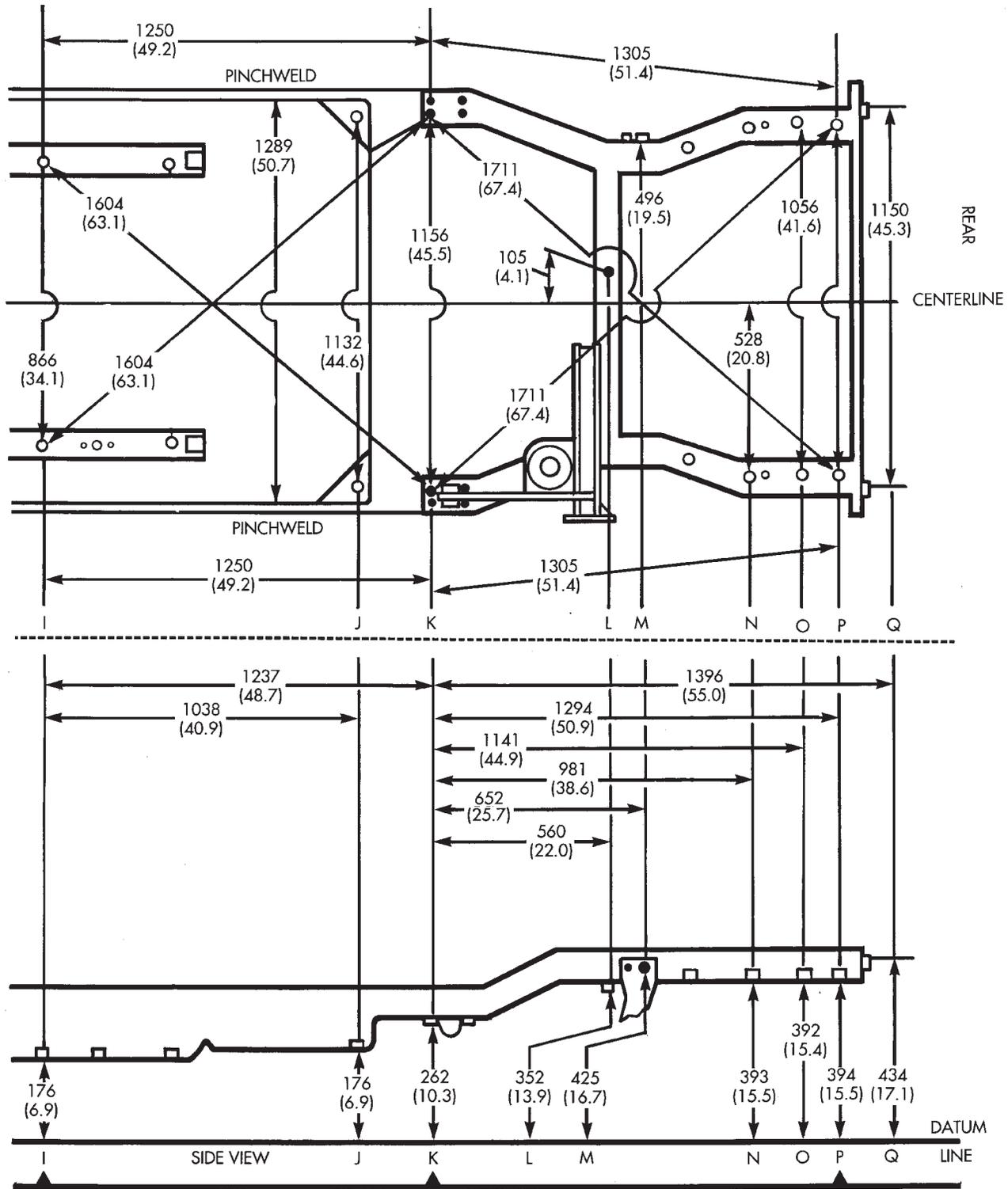


MEASURING POINT LOCATIONS

- I - Center of 25 mm Round Hole
- J - Center of 15 mm Round Hole
- K - Center of 19 mm Round Hole
- L - Center of Front Inner Bolt - Rear Suspension Mount
- M - Head of Rear Bolt - Panhard Rod Bracket
- N - P.S. - Center of 25 mm Round Hole
- O - Center of 25 mm Round Hole - Third From Rear

- P - Center of 25 mm Round Hole - Rear of Frame
- Q - End of Outer Bolt - Bumper Bracket at Frame
- R - End of Outer Bolt - Bumper Bracket at Bumper
- D.S. - DRIVER SIDE
- P.S. - PASSENGER SIDE
- - BOLTS
- - HOLES
- ▲ - DATUM LINE CONTROL POINT

Fig. 7 Rear Frame Dimensions—AA-Body

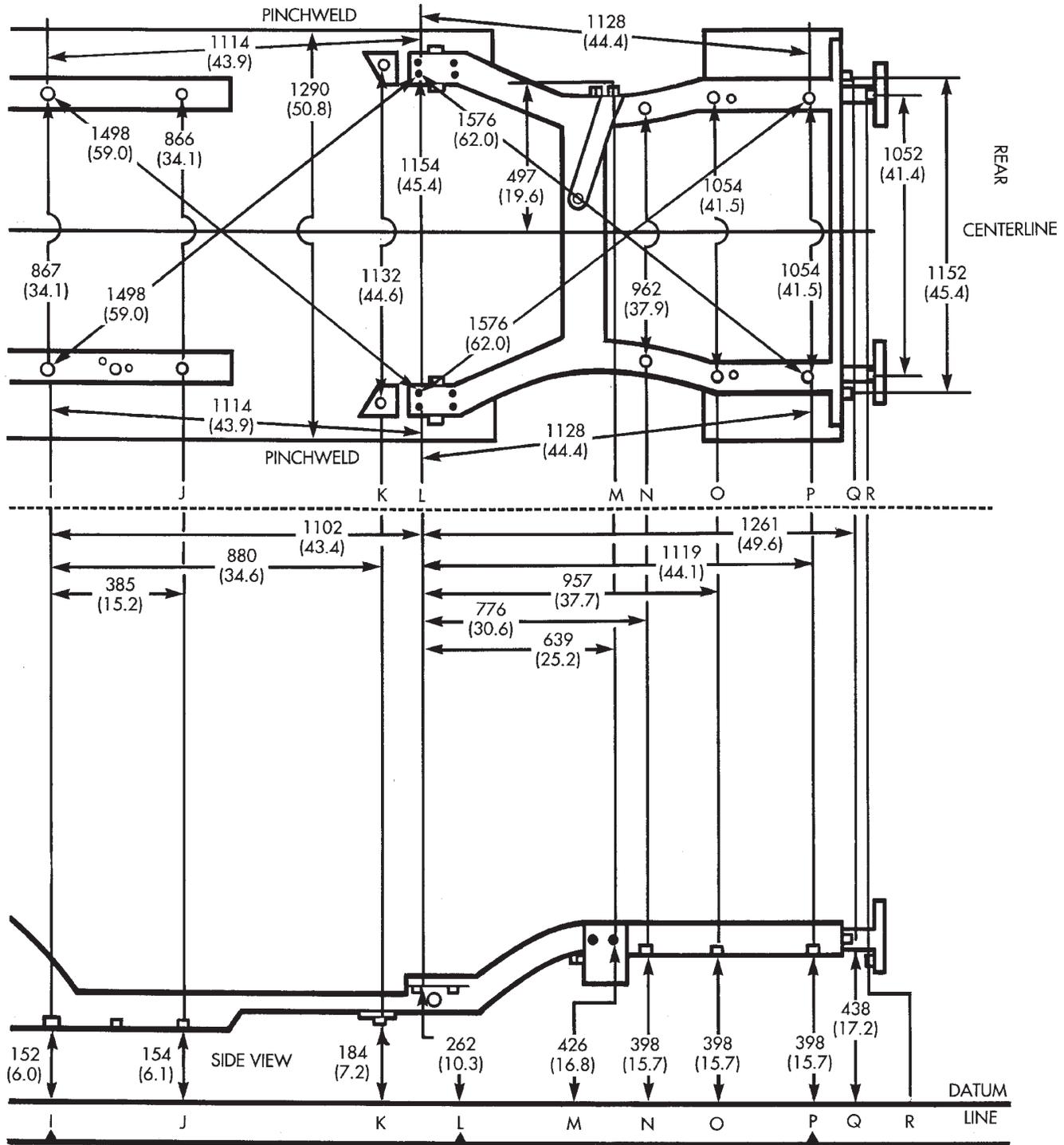


MEASURING POINT LOCATIONS

- I - Center of 25 mm Round Hole
- J - Center of 25 mm Round Hole
- K - Head of Front Inner Bolt - Rear Suspension Mount
- L - Tip of Stud - Inner End of Brace for Panhard Rod
- M - Head of Rear Bolt - Panhard Rod Bracket
- N - P.S. - Center of 25 mm Round Hole - Fifth From Rear
- O - Center of 25 mm Round Hole

- P - Center of 25 mm Round Hole - Rear of Frame
- Q - End of Outer Bolt - Rear Bumper Bracket
- D.S. - DRIVER SIDE
- P.S. - PASSENGER SIDE
- - BOLTS
- - HOLES
- ▲ - DATUM LINE CONTROL POINT

Fig. 8 Rear Frame Dimensions—AC, AY-Body

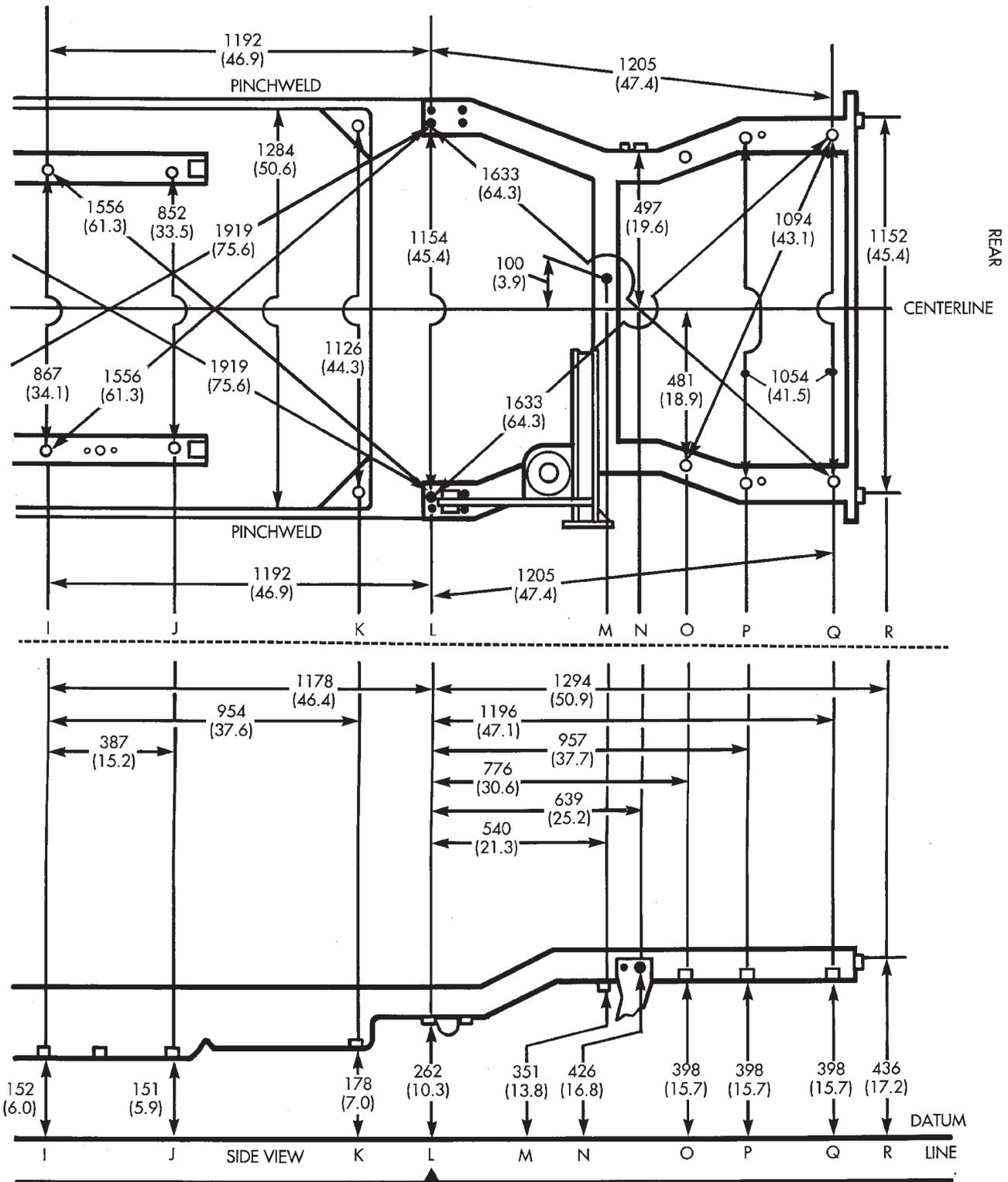


MEASURING POINT LOCATIONS

- I - Center of 25 mm Round Hole
- J - Center of 15 mm Round Hole
- K - Center of 19 mm Round Hole
- L - Head of Front Inner Bolt - Rear Suspension Mount
- M - D.S. - Head of Rear Bolt - Panhard Rod Bracket
- N - Center of 25 mm Round Hole
- O - Center of 25 mm Round Hole - Third From Rear

- P - Center of 25 mm Round Hole - Rear of Frame
- Q - Tip of Outer Bolt - Bumper Bracket at Frame
- R - Tip of Outer Bolt - Bumper Bracket at Bumper
- D.S. - DRIVER SIDE
- P.S. - PASSENGER SIDE
- - BOLTS
- - HOLES
- ▲ - DATUM LINE CONTROL POINT

Fig. 9 Rear Frame Dimensions—AG-Body



MEASURING POINT LOCATIONS

- I - Center of 25 mm Round Hole
- J - Center of 16 mm Round Hole
- K - Center of 25 mm Round Hole
- L - Center of Front Inner Bolt - Rear Suspension Mount
- M - End of Stud - Inner End of Brace for Panhard Rod
- N - Head of Rear Bolt - Panhard Rod Bracket
- O - P.S. - Center of 25 mm Round Hole

- P - Center of 25 mm Round Hole - Third From Rear
- Q - Center of 25 mm Round Hole - Rear of Frame
- R - End of Outer Bolt - Rear Bumper Bracket
- D.S. - DRIVER SIDE
- P.S. - PASSENGER SIDE
- - BOLTS
- - HOLES
- ▲ - DATUM LINE CONTROL POINT

Fig. 10 Rear Frame Dimensions—AJ-Body

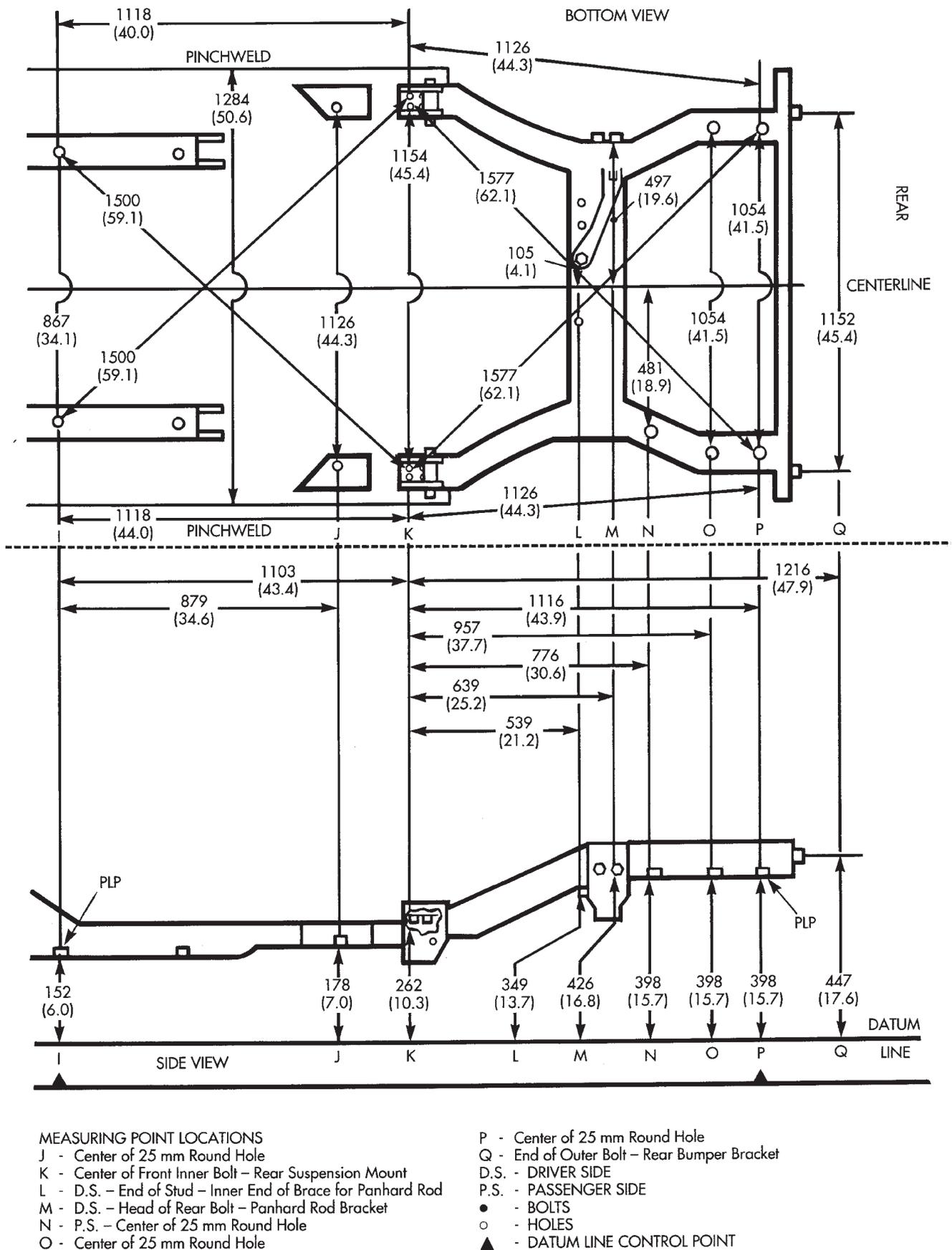


Fig. 11 Rear Frame Dimensions—AP-Body

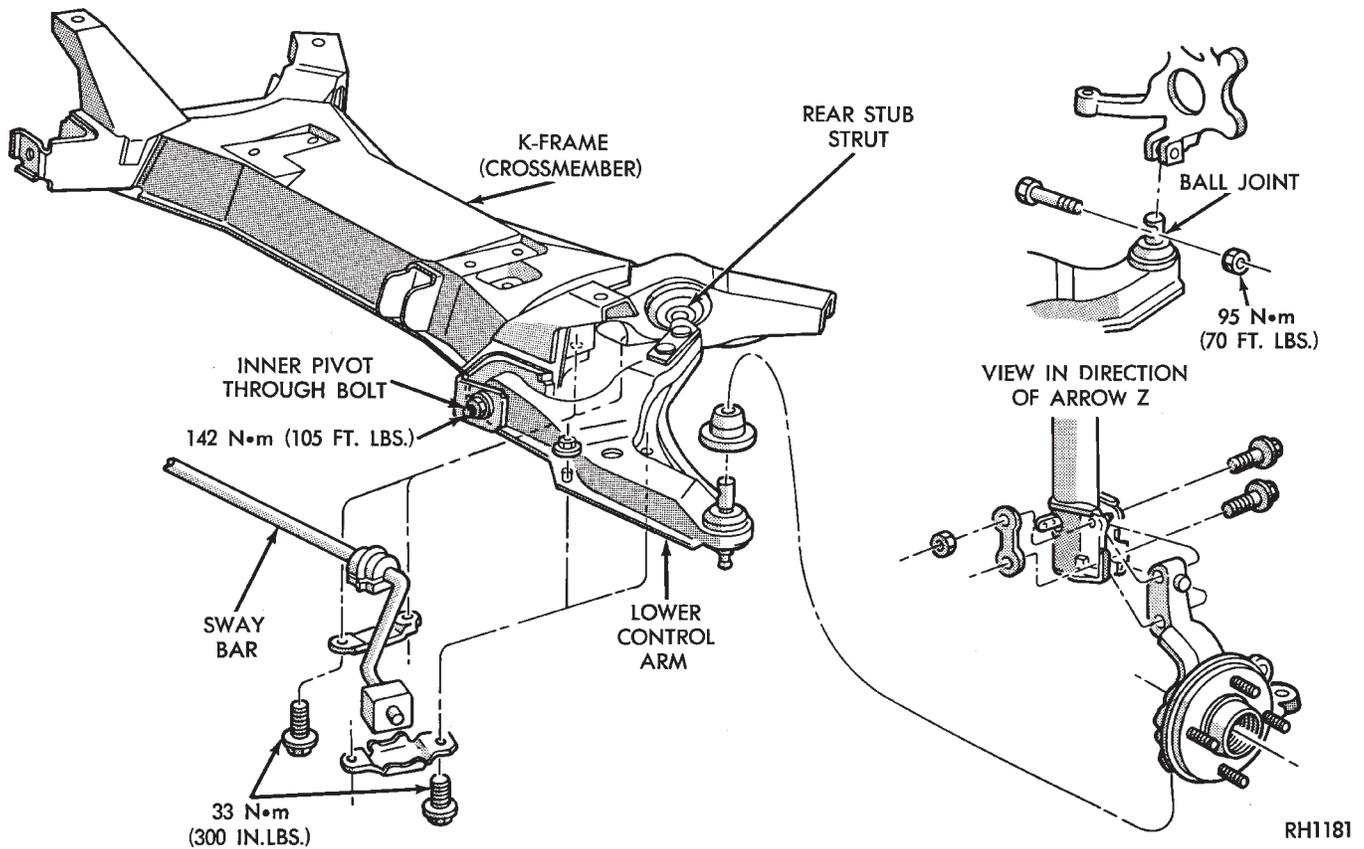


Fig. 12 Crossmember

CROSSMEMBER

REMOVAL (FIG. 12)

- (1) Hoist vehicle and support on safety stands. Refer to Group 0, Lubrication and Maintenance for proper procedures.
- (2) Remove front wheels.
- (3) Disconnect lower ball joints from the knuckle assembly. Refer to Group 2, Suspension for proper procedures.
- (4) Disconnect power steering hose tie-down from rear upper edge of crossmember, if equipped.
- (5) Remove bolts holding steering gear to crossmember. Refer to Group 19, Steering for proper procedures.

- (6) Remove bolt holding engine damper strut to crossmember, if equipped with manual transaxle.
- (7) Support crossmember on a suitable lifting device.
- (8) Remove nuts holding rear of crossmember to the frame.
- (9) Remove bolts holding crossmember to frame from above lower control arms.
- (10) Separate the crossmember from the vehicle.
- (11) Transfer lower control arms and sway eliminator shaft to new crossmember, if crossmember is being replaced. Refer to Group 2, Suspension for proper procedure.

CROSSMEMBER INSTALLATION

Reverse the preceding operation.
delete this line

