SUGGESTIONS FOR INSTALLATION

GM LADDER AND LUGGAGE RACK GM

2234701
MOTOR HOME MODELS

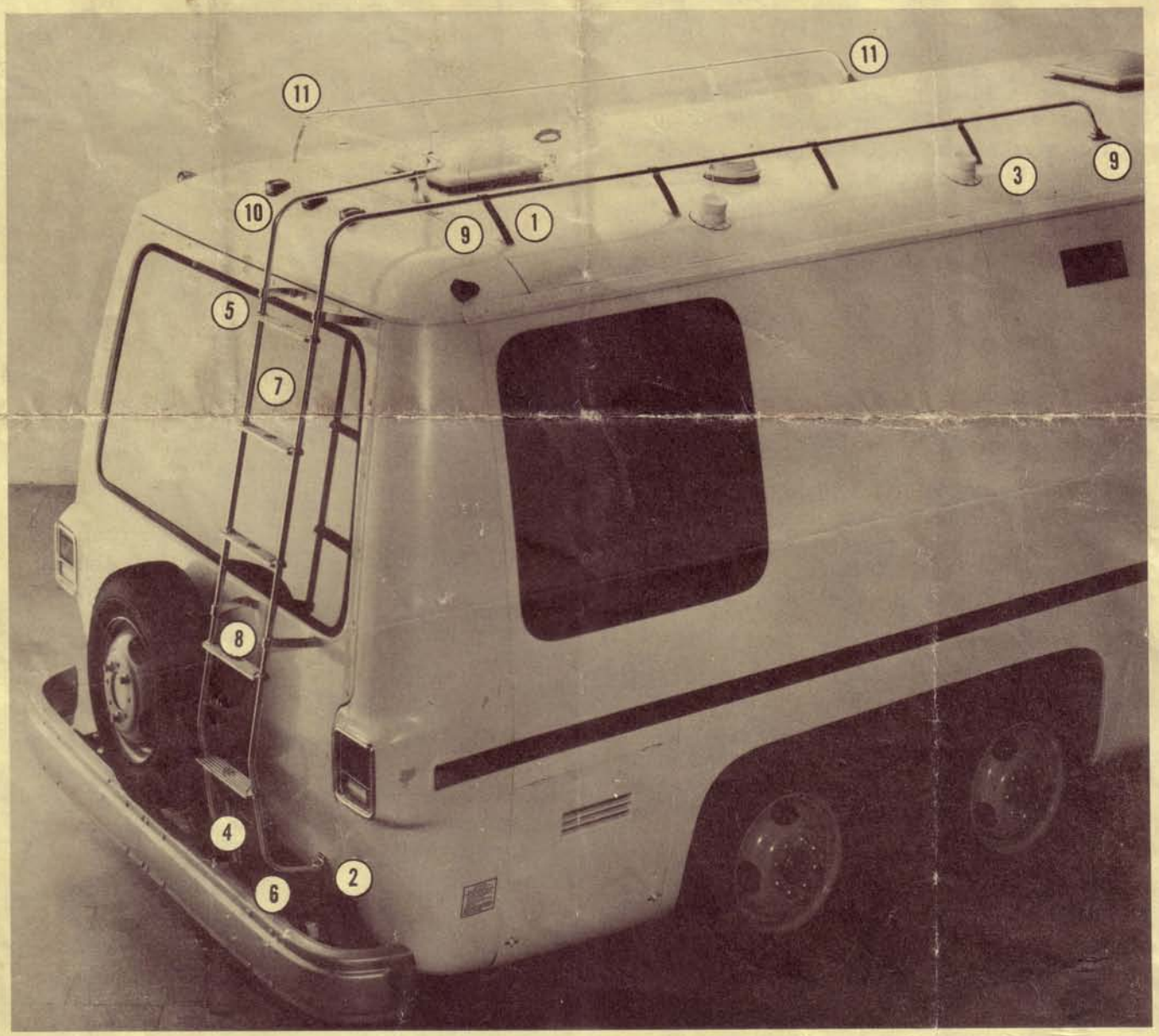

Figure 1

GMC TRUCK & COACH DIVISION
GENERAL MOTORS CORPORATION
PONTIAC, MICHIGAN

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1. Select the longer of the two rail pieces with a tube base attached to it. Place four right-hand stanchions on this and on the longer of the straight rails and join them together. This forms the right-hand roof rail. The stanchion bases should point toward the center of the vehicle and the top of the stanchions are angled to the rear of the vehicle. Position the stanchions every 26½". Join this rail to the ladder. The rear stanchion will cover the joint between the rail and ladder. The second stanchion from the front of the rail will cover the joint between the two rail pieces. Do not tighten any of the allen set screws until the installation is finished.

2. Clamp a piece of wood or other material 1½" thick (a 2x4 works good) on the top of the cross-member which is approximately 1" below the rear section of the body. Place the ladder on the rear of the vehicle with the bottom of the ladder resting on the 2x4 and with the long rail on top of the vehicle. This will place the bottom edge of the tube base approximately ½" above the bottom edge of the vehicle.

3. Position the tube base on the front of the right hand roof rail so there is 11" between the tube base and the top edge of the drip rail.

4. Place the bottom left hand tube base of the ladder (the one nearest the spare tire) so that it covers approximately the left quarter of the screw hole molded in the bottom of the panel. This will be the third screw hole from the right side.

5. Place the top left hand stanchion on the ladder (the one just above the top step) so that it covers approximately the same amount of the third screw hole from the right of the top of the panel. The base of the stanchion should be approximately centered on this narrow section that it attaches to.

6. Mark the four holes for each of the two bottom tube bases. Drill with a 5/32" drill and attach with the #10x3/4" phillips oval head self tapping screws.

   NOTE: Do not drill through tube base or stanchion holes. Mark hole locations, move base or stanchion, and with drill perpendicular to surface, drill holes. It is advisable to use a drill stop to ensure that drill bit does not penetrate interior surfaces.

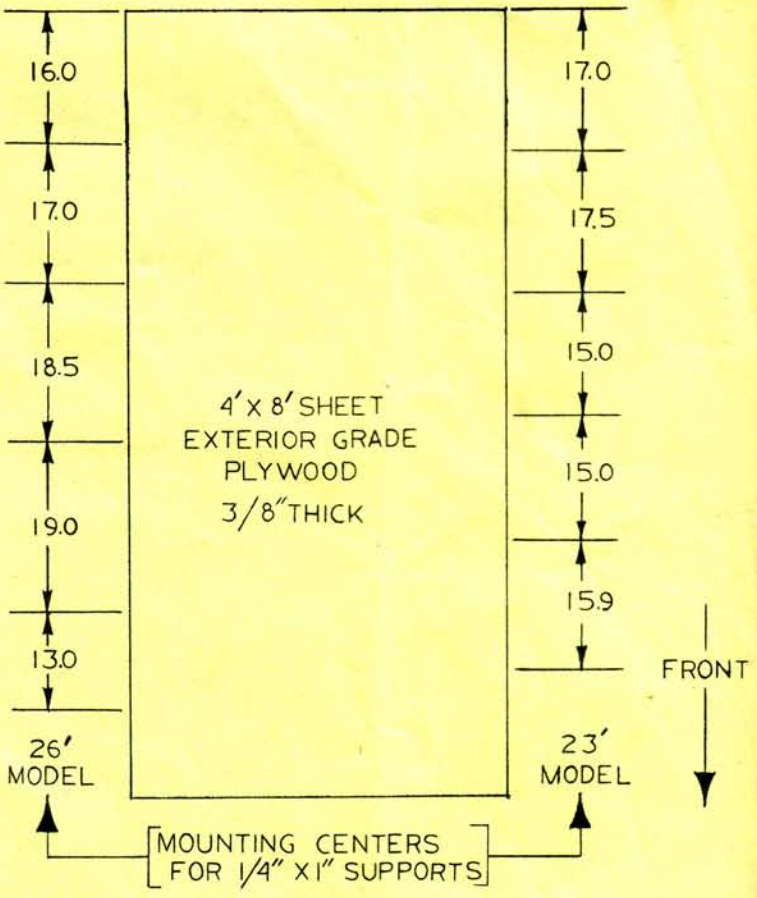

Figure 2

CAUTION: Always apply a generous amount of the clear silicone compound to mating surfaces of the tube bases and stanchions and on the vehicle body and apply a small amount in each screw hole before adding the screw. This will prevent water leaks.

7. Mark and drill two 5/32" holes for the top left hand ladder stanchion, seal and attach with the #10x3/4" phillips oval head self tapping screws. Mark and drill two 5/32" holes, seal and attach the top right hand stanchion with the same type screws.

8. Position the two stanchions in the center of the ladder approximately 1/4" below the bottom edge of the window opening and mark, drill 5/32" holes, seal and attach with the #10x3/4" phillips oval head self tapping screws.

9. Be sure there is no gap between the right hand roof rail where it attaches to the top of the ladder. Rotate the long rail so that the tube base on the front of the rail sets flat

against the top of the vehicle (be sure there is still 11″ between the tube base and the top of the drip rail). Mark the four holes, drill 1/8″ holes seal and attach with the #10x3/4″ phillips oval head self tapping screws. Drill through existing hole in side of the tube with a 5/32″ drill and install the #10x3/4″ phillips pan head self tapping screw.

10. Position the four stanchions so that the bases of the stanchions are 9-3/4″ from the top of the drip rail. Make sure that the rear stanchion covers the joint where the rail and ladder come together. The rear stanchion base will be approximately 1/2″ ahead of where the aluminum roof and fiberglass and cap join. Mark, drill 5/32″ holes, seal and attach with the #10x3/4″ phillips oval head self tapping screw. Drill 1/8″ holes for the other three stanchions. Install two straight stanchions on the short rail and attach this section to the ladder. Position one of the straight stanchions so that it covers the joint and the other one approximately the same distance from the bend in the other end of the tube. Place these two stanchions the same distance from the joint between the roof and end cap (approximately 1/2″). Place the angle stanchion which came assembled on the top left hand ladder rail also approximately 1/2″ from this joint. Drill all six holes for these three stanchions with a 5/32″ drill, seal and attach with #10x3/4″ phillips oval head self tapping screws.

11. Using the remaining rail with the tube base on the front, join it to the left hand side rail and position the stanchion approximately 23-1/2″ apart with the top of the stanchion angled toward the rear of the vehicle. Attach this to the short rail just finished with no gap between the tubes. Rotate the rail until the tube base on the front of the rail is flat against the top of the vehicle and is 11″ from the top of the drip rail. Mark, drill with 1/8″ drill, seal and attach with the #10x3/4″ phillips oval head self tapping screws. Make sure that the rear stanchion is over the joint in the rails and that the stanchion bases are 9-3/4″ from the top of the drip rail. Drill all eight holes for the four stanchions with a 1/8″ drill, seal and attach with the same type screws. Drill through the existing hole in the side of the tube base with a 5-1/32″ drill and install a #10x3/4″ phillips pan head self tapping screw.

12. Tighten all allen set screws securely in all stanchions on the rack and ladder.

13. To reduce the possibility of slipping when going from the ladder to the roof, apply the anti-skid tape between the top of the ladder rail extensions as follows:

    a. Cut three strips, of tape furnished, 12″ long.

    b. Apply first strip of tape two inches behind roof to end cap joint and parallel to the joint.

    c. Apply the other two strips of tape by alternately skipping two inches and then applying a strip of tape.

14. Apply a twelve inch long strip of tape (furnished in Kit) on top of the bumper in line with the ladder.

15. To prevent piercing or otherwise damaging the roof, install a 4′x8′ sheet of exterior grade plywood (procure locally). Cut seven pieces of 1/4″x1″ wood, four feet long. Glue one piece on the bottom side of the plywood panel at each end. Glue the remaining five pieces on the bottom side of the panel using the dimensions shown in Figure 2. The dimensions on the left hand side are for the 26 foot model and the dimensions on the right hand side are for the 23 foot model.

16. Center the 4′x8′ panel between the side rails on the top of the vehicle. The rear edge of the panel should be installed parallel to the roof to end cap joint and three inches in front of the joint. Cut out clearance holes in the panel to clear ventilators, vents, etc.

17. With the panel in place, drill 1/8″ holes approximately 8″ apart, through the panel and roof, on each of the cross pieces. Using the clear silicone compound, draw a small circle around each hole in the roof, put a small amount in each hole in the plywood and attach with #10x1″ cadium or zinc plated oval head screws from your stock.

18. Procure locally, outdoor carpeting, 4 ft., 1 in. by 8 ft., 1 in., center on the plywood panel and cement with a good grade waterproof cement. Bend excess carpeting over the edges of the panel, apply cement and tack down. This will reduce the possibility of slipping when stowing luggage on the roof.