

INSTALLATION INSTRUCTIONS

MyGlassTruck.com

Division of Demountable Concepts, Inc

Aluminum Van Rack Installation



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Demountable Concepts

Van Rack Installation

Installation Instructions

ATTENTION:

The success or failure of this equipment could very well depend on a thorough and proper installation. Any missed steps or improper procedures could result in serious injury or death to the installer or end user. Read and understand the contents of these instructions before proceeding.

IMPORTANT:

When installed, this Glass Rack must not alter or prevent vehicle compliance to any existing state or federal standards. Each vehicle manufacturer's recommendations should be consulted for compliance.

NOTE TO INSTALLER

Prior to installation read the entire Instruction guide and all of the Installation Instructions to familiarize yourself with this system.

INSTALLATION INSTRUCTIONS

INTRODUCTION

EVEN THOUGH THE FOLLOWING GOES WITHOUT SAYING, WE FEEL COMPELLED TO STATE . . .

This Glass Rack system should only be installed by those with sufficient basic skills to understand the installation and operation of glass carrying equipment, along with the equipment on which these systems are installed. These installation instructions are not intended to give rationale for all of the instructions that are given; however, it is the intent of these instructions to give the installer both the operations and what we believe to be the most desirable sequence of implementing these operations. These instructions can in no way expand into an area where they will replace a qualified person, or clear thinking, common sense and a basic knowledge that must be possessed by the installer.

We urge the installer (or anyone else) to call us if they have any questions. We have qualified personnel at our Glassboro, New Jersey plant to answer any questions that you may have. A detailed discussion on the telephone is far more satisfactory and productive than a detailed written explanation.

It has been our experience that a knowledgeable journeyman following these installation instructions and observing the operation of the Glass Carrying System will have sufficient comprehension to enable this person to troubleshoot and correct all normal problems that may be encountered. However, again we urge you to call us at our Glassboro, New Jersey plant if you find any problems during installation or have any doubts or questions.

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Parts List

Rack to Van Hardware- Through Body

Bolt 3/8 x 1 w/ fender washers, washers, lock washers, nuts x 3

Bolt 3/8 x 1 1/2 w/ fender washers, washers, lock washers, nuts x 2

Under Body Bracket Assembly

Bolt 3/8 x 1 w/ locknuts x 12

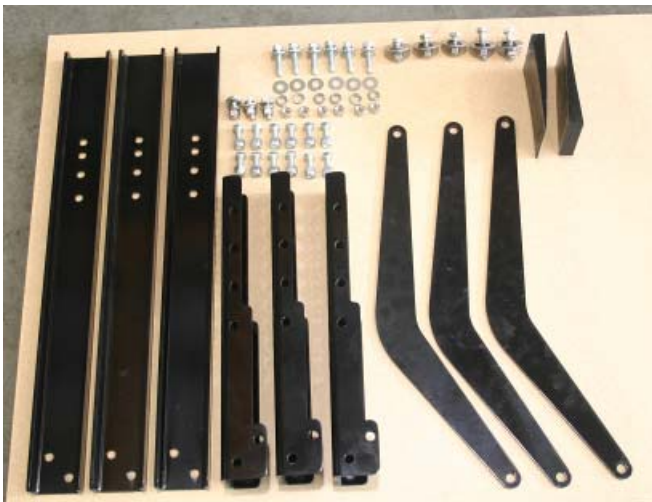
Under Body Mount Hardware

Self-threading bolt 3/8" w/ washers, lock washers, nuts x 6

Rack Angle to under body mount hardware

Bolt 3/8 x 1 w/ washers, lock washers, nuts x 6

Aluminum wear plates



Required tools: Electric Drill or Cordless, 5/16 & 3/8" drill bits, 9/16 and 1/2" sockets and wrenches, impact gun not needed but highly suggested.

**Installation Instructions- THROUGH THE VAN WALL MOUNT NON ROOF RACK MOUNT –
FOR ROOF RACK MOUNT SKIP AHEAD to PAGE 9**

Find the front of the rack, identified by the front body stop

Place the rack up against the side of the vehicle with the upper mount $\frac{1}{2}$ " below the rain gutter. Use jack stands or wooden blocking to support the rack. Make sure the carrier does not interfere with any doors or fuel openings. Be sure your supports are strong enough to support the weight of the rack.



Set the angle of the carrier by moving the bottom in or out. Be sure to keep the rack as close to the van as possible. If the rack is touching the van, be sure to use a rubber or foam pad between the van and the rack. Try to keep about $\frac{1}{2}$ " between the rack and the van. A safe angle is about 6 degrees. Do not exceed the legal width limit of 102"



Drill 5 holes through the van and through the racks main mounting angle. If the van is double walled use a hole saw to make a clearance hole for the bolts. Try to drill through the van where the skin and the ribs meet making an even more secure installation. If you can only get a hole in a single thick skin area, add an aluminum plate on the inside that you can secure with adhesive caulk. This will reinforce the current thin wall skins on late model vans. (MGT can not be responsible for torn van side walls due to improper installation.)





Shim the rack as necessary to accommodate for the curvature of the van with the supplied rubber wedges. Check that the rack is straight. Bolt the rack on with 3/8" mounting hardware provided. Be sure to use the 1 1/2" fender washers against the body panels. Double-check the straightness before moving on.



Gutter Clip Reinforcement

We have provided 2 stainless reinforcement clips. After the rack is bolted through the van these clips can then be clipped over the van gutter and bolted to aluminum hanger channel with 3/8 bolts. This clip reinforces the installation and is very important. Try to locate one near the front of the rack and one at the gutter just before it curves around at the back of the van. Use rubber shims as needed between clip and mounting channel as shown.



ROOF RACK MOUNTING OF GLASS RACK

Locate roof rack parts as pictured here.



The Parts are:

3 Aluminum Crossbars

2- Standard open mounts (for the rack side Front and Rear)

1- Short open mount (for the rack side **center**)

2- Long mounts (for the NON-rack side Front and Rear)

1- Long mount (for the NON-rack side **center**)

12- 5/16 x 2 1/2" bolts w/ nuts and lock washers for bolting aluminum cross bar to mounts

3- 3/18 x 2 1/2" bolts to bolt cross bar to the glass rack

Install roof rack mounts

The roof rack mounts are of varying heights. The end mounts are taller than the center mounts to account for the roof curvature.

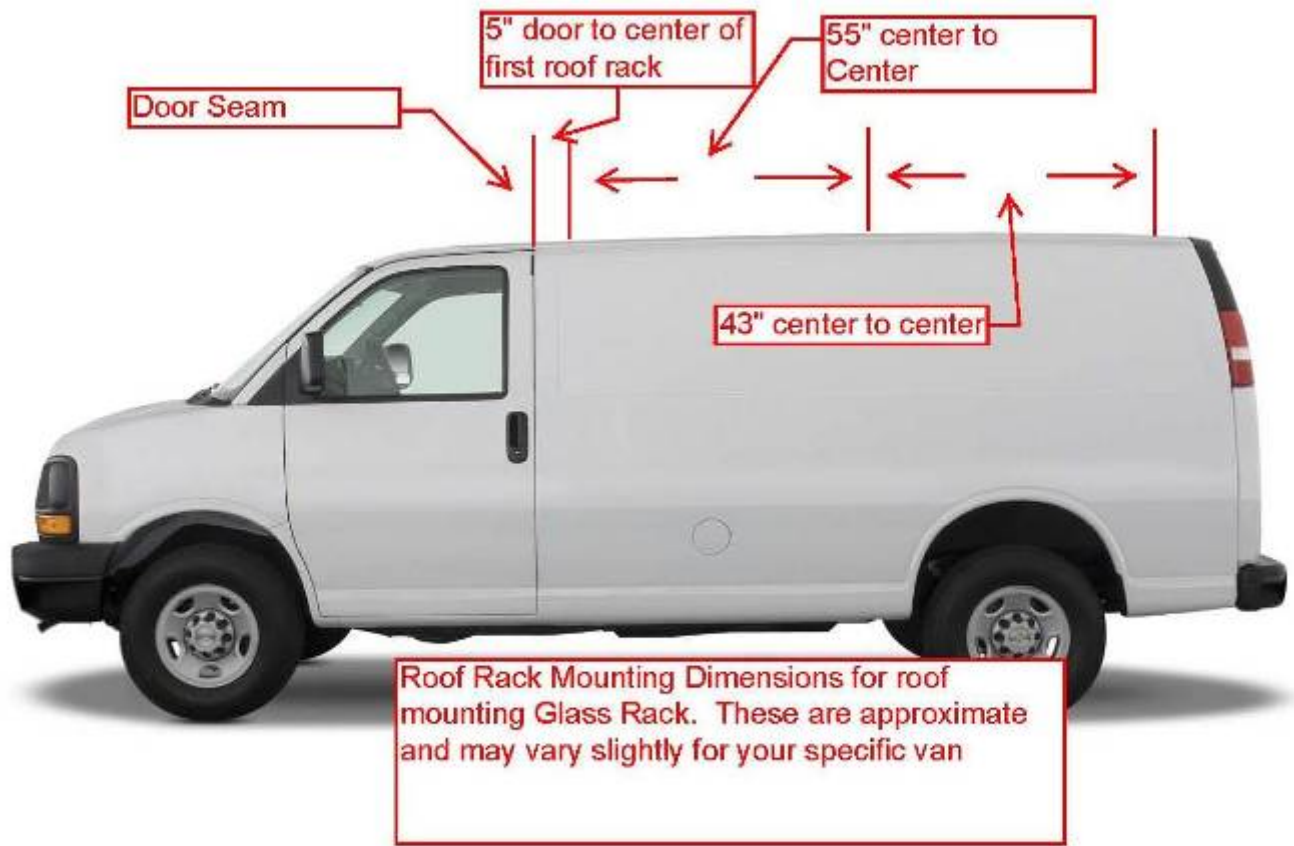
Install first mount 5" to centerline of mount behind driver door.

Install the center (shorter mounts) 55" center line behind the first set (or 60" from the door)

Install the rear set 43" center line behind the center set (or 103" from the door)

You can vary these dimensions slightly as they are simply a guide. The object is to keep the cross bars as close to a vertical post on the glass rack as possible for added strength.

Slide in the aluminum cross bars and bolt in using 5/16 x 2 1/2" bolts.



Hang the rack

Hang the rack from cross bars as shown. Confirm that the rack is at the correct elevation for your vehicle (**CHECK FUEL OPENING & CLEARANCE FOR THE FRONT DOOR**) . If the rack does not sit on all 3 cross bars due to roof curvature you can shim between the glass rack and the roof rack cross bar.



Bolt the rack to the cross bars using 3/18 x 2 ½" bolts. Be sure to drill through the center of the angle on the back of the glass rack. **Tighten ALL 15 bolts on the roof rack and glass rack.**



Under Body Mounts

Pre-assemble the under body mounting brackets. These brackets are very strong and provide load carrying capacity. They will help support the load as well as stabilize the bottom of the rack from moving in and out.



Bolt the mounting brackets to the truck frame with the long arm of the bracket under the ledge. Two (2) in front of the rear wheels and One (1) behind. The boomerang shaped support can be located in multiple positions to work around brake cables or body panels.



Locate the brackets on the chassis so the horizontal member meets the bottom of the rack angle.

Bolt the brackets to the chassis with either nuts and bolts, or self threading bolts provided (if using self threading bolts then use 5/16 drill bit for the pilot hole) . Be sure to use minimum of 2 bolts per bracket (3 is better and suggested) through the chassis. Get one bolt high and one bolt low on the truck frame. Be careful of brake lines, fuel tanks, fuel hoses etc. The brackets may have to be modified if you have interference. Call us if you are unsure.

Secure all the bracket bolts.

Drill through the ledge into the top of the mounting bracket. Secure with 2 - 5/16" bolts. Use our 4 x 4 aluminum wear plate between top of bracket and bottom of ledge. If there is a gap between the under mount and the ledge, add shims do that some of the weight of the rack is pushing down onto the under body brackets.



Double-check all connections, all nuts and all bolts.

Poles

Locate the triangle cleats. You can slide them onto the poles from the top. The bottom has a stop to prevent the cleats from sliding out. Slide the head of the stainless bolt down the track in the pole. Put 3 cleats on one side and 2 on the other.



FINAL INSPECTION CHECK LIST

- A. () All bolts tight where rack bolts to the van body
- B. () All bolts are tight where the under body mounts secure the rack to the chassis
- C. () All under body mount bolts are tight
- D. () All bolts securing the rack ledge to the under body mounts are tight
- E. () Wheel skirt properly bolted down
- F. () All poles have cleats secured with wing nuts
- G. () Front body stop bolted on securely

WARRANTY VALID ONLY IF THE FORM BELOW IS COMPLETED AND MAILED BACK WITHIN 15 DAYS OF INSTALLATION.

System complete by: (company)- _____

(installer's name)- _____

(completion date)- _____

MyGlassTruck.com & Demountable Concepts, Inc. is always looking for ways to improve. Please make some comments to help us improve the Van Rack Installation Instructions.

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COMMENTS: