



MyGlassTruck



VICTORY



Installation instructions for Aluminum Van Rack

Ford - 1994 to 2014

Chevy - 1996 to present

MyGlassTruck.com

(856) 595-9069

| | | |
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Thank You for Choosing MyGlassTruck.com North America's Glass Rack Leader

This document's purpose is to provide a qualified installer with the steps necessary to perform a safe and correct installation.

Before beginning installation read this guide and all other instructions provided by MyGlassTruck.com, third party component providers and vehicle providers to ensure you are familiar with the installation procedure, rack and vehicle.

If you have questions, please call MyGlassTruck.com at (856) 595-9069. Our qualified personnel will gladly provide answers.



CAUTION

Victory Truck Body, Inc., parent company of MyGlassTruck.com, has provided within this document detailed installation instructions for the installer of the aluminum van rack provided by MyGlassTruck.com. Failure to follow these instructions or failure to follow safe shop and workplace practices could result in injury or death of the installer or end user of this equipment. PLEASE read this instruction manual thoroughly before beginning the installation process. If you do not understand any step or procedure that is outlined in the manual, immediately call the Victory Truck Body, Inc. engineering department at (856) 595-9069. Hours of operation are 8 am to 5 pm EST, Monday through Friday. DO NOT PROCEED WITH ANY INSTALLATION PROCEDURE IF YOU ARE NOT CERTAIN OF ITS CONTENT, INTENTION AND DESCRIPTION.



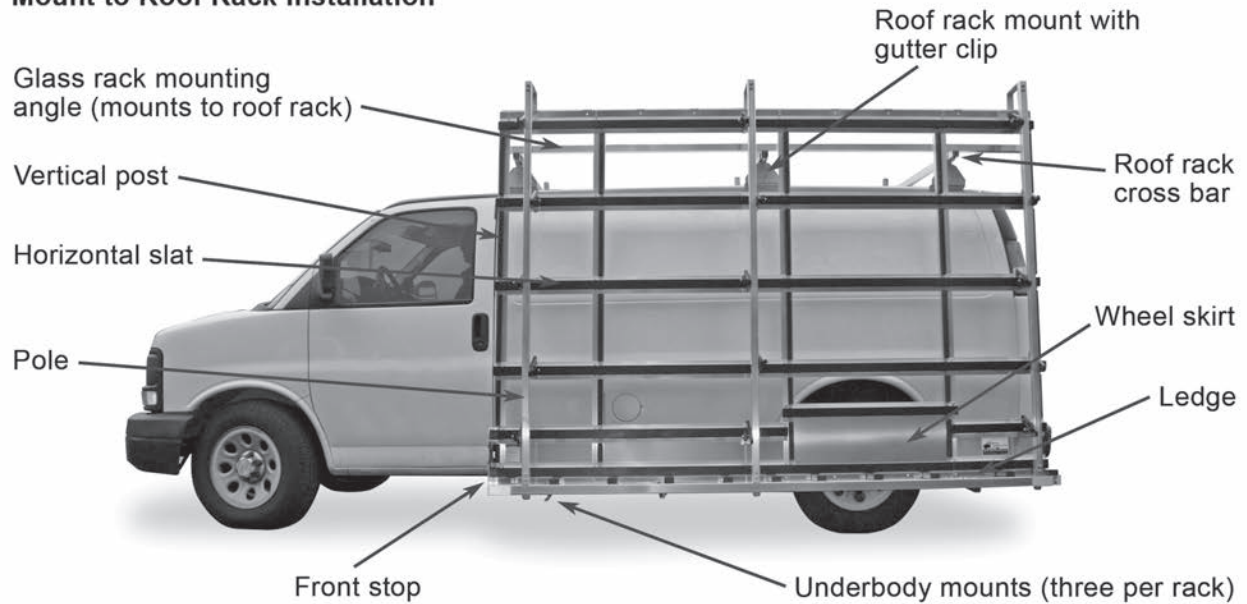
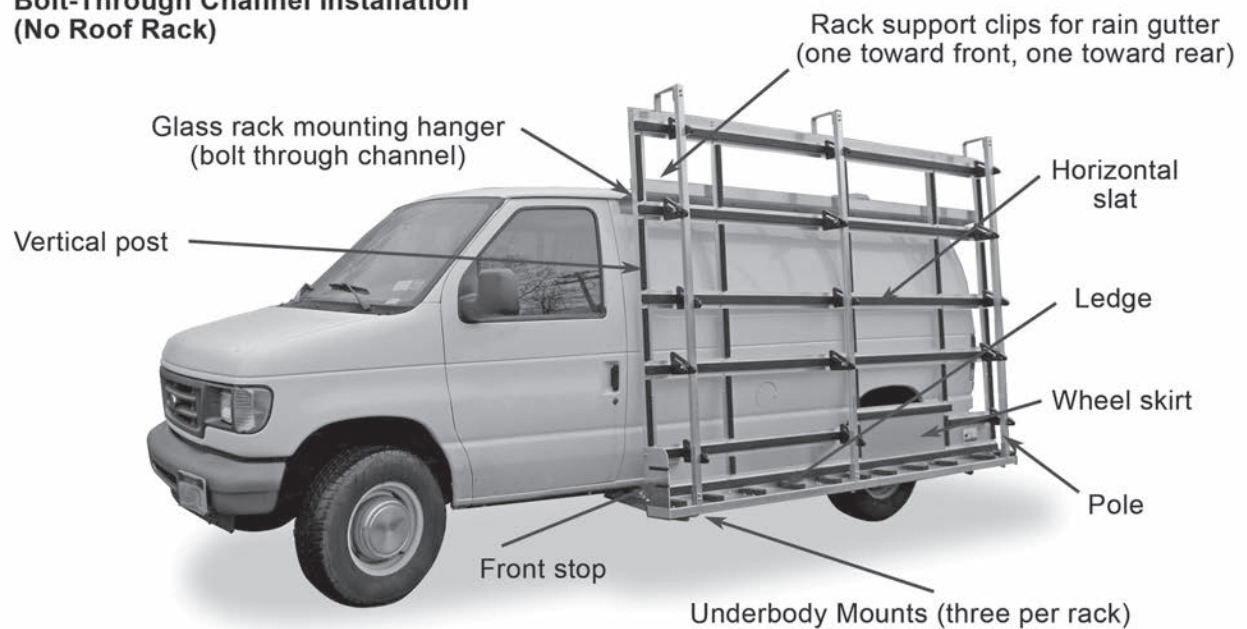
IMPORTANT

When installed, this glass rack and any other components must not alter or prevent vehicle compliance to existing state or federal standards. The finished rack and vehicle should comply with all vehicle manufacturer guidelines.



DO THIS BEFORE YOU START

Before beginning installation, please review this manual and locate each hardware bag and component of your rack. If anything is missing or you have questions please call (856) 595-9069. We will be happy to assist you.

BECOME FAMILIAR WITH YOUR GLASS RACK**Mount to Roof Rack Installation****Bolt-Through Channel Installation
(No Roof Rack)**

STEP 1: LOCATE PARTS AND HARDWARE

IF YOU ARE INSTALLING A GLASS RACK WITHOUT A ROOF RACK PLEASE SKIP TO SECTION 3.

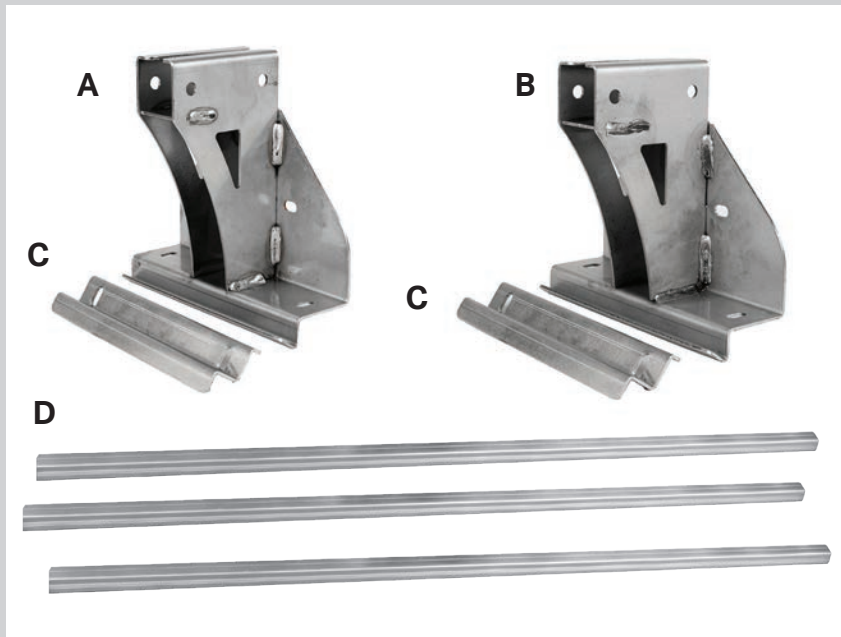
ROOF RACK PARTS

A. Standard Roof Rack Mounts (4)

B. Short Roof Rack Mounts (2)

C. Rain Gutter Clips (6)

D. Roof Rack Cross Bars (3)

**V-3 Hardware Bag for roof mount rack**

| ITEM | SIZE | QTY |
|---------------------------|-----------------|-----|
| Hex Cap Screw Stainless | 5/16"-18 1-1/2" | 12 |
| Hex Cap Screw Stainless | 5/16"-18 2-1/4" | 12 |
| Zinc Nyloc Nut | 5/16"-18 | 24 |
| USS Flat Washer Stainless | 5/16" | 48 |

V-10 Hardware Bag for roof mount rack

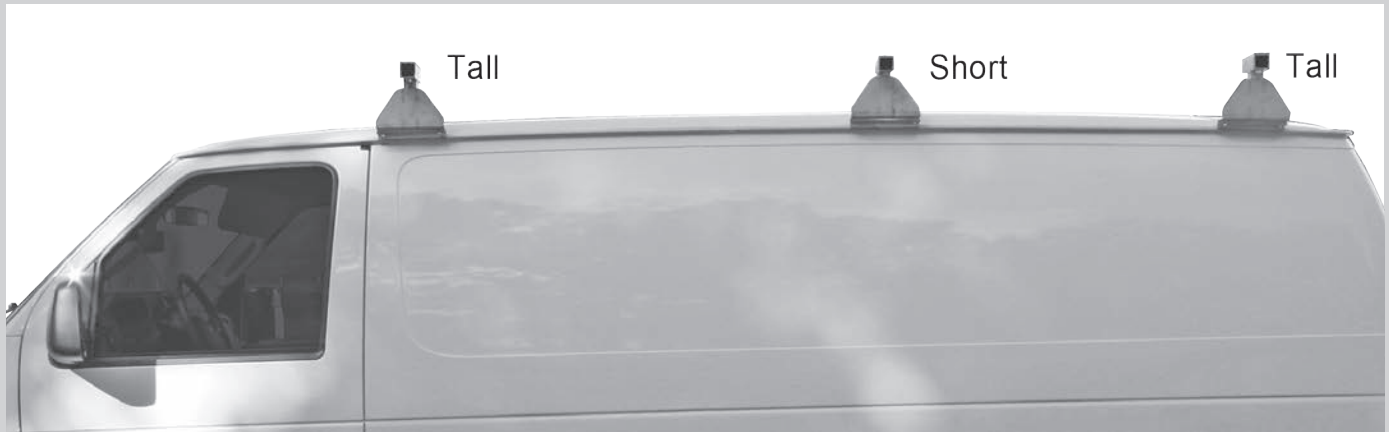
| ITEM | SIZE | QTY |
|-----------------------------|----------------|-----|
| Hex Cap Screw Stainless | 3/8"-16 2-1/2" | 3 |
| USS Flat Washer Stainless | 3/8" | 6 |
| Nylon Insert Locknut Plated | 3/8" | 3 |



IF YOU PURCHASED A DOUBLE-SIDED RACK THERE WILL BE TWO V-10 HARDWARE BAGS

STEP 2: ORIENTATION

The roof rack mounts vary 1/2" in height. The mounts for the front and rear of the van are 1/2" taller than the mounts for the center to accommodate for the curvature of the roof.

**STEP 3: PRE-ASSEMBLE ROOF RACK MOUNT**

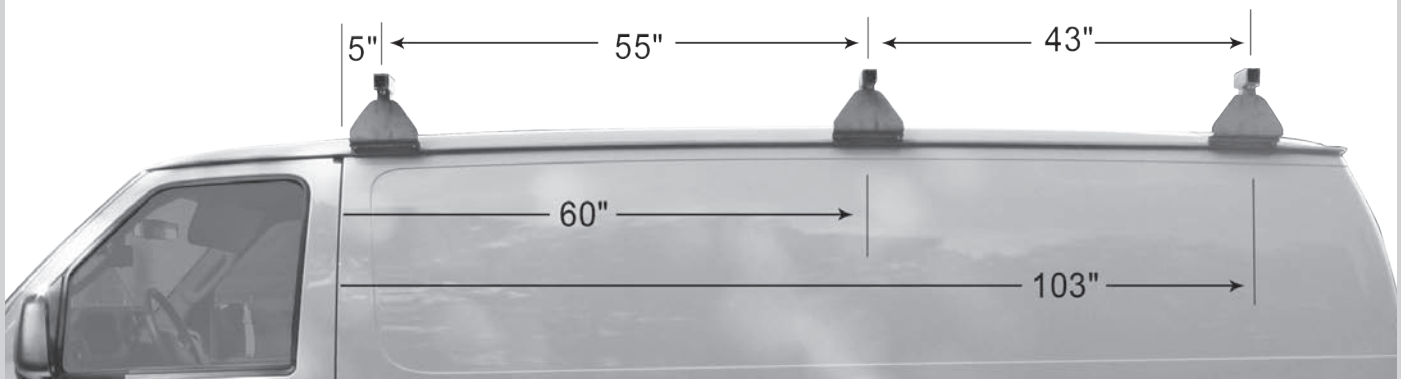
Loosely bolt together the clamp that secures the roof rack mount to the rain gutter as shown.

Use 5/16" x 1-1/2" bolts with
lock nuts and washers from
V-3 hardware bag.



STEP 4: DETERMINE PLACEMENT

Place the front set of mounts 5" behind the driver door (measured to center of mount). The center set of mounts should be placed 55" behind the front mount, or 60" from the door. Place the rear set of mounts 43" behind the center mounts, or 103" from the door.



MOUNT PLACEMENT MAY VARY SLIGHTLY. THE GOAL IS TO KEEP THE CROSS BARS AS CLOSE TO THE RACK'S VERTICAL POSTS AS POSSIBLE.

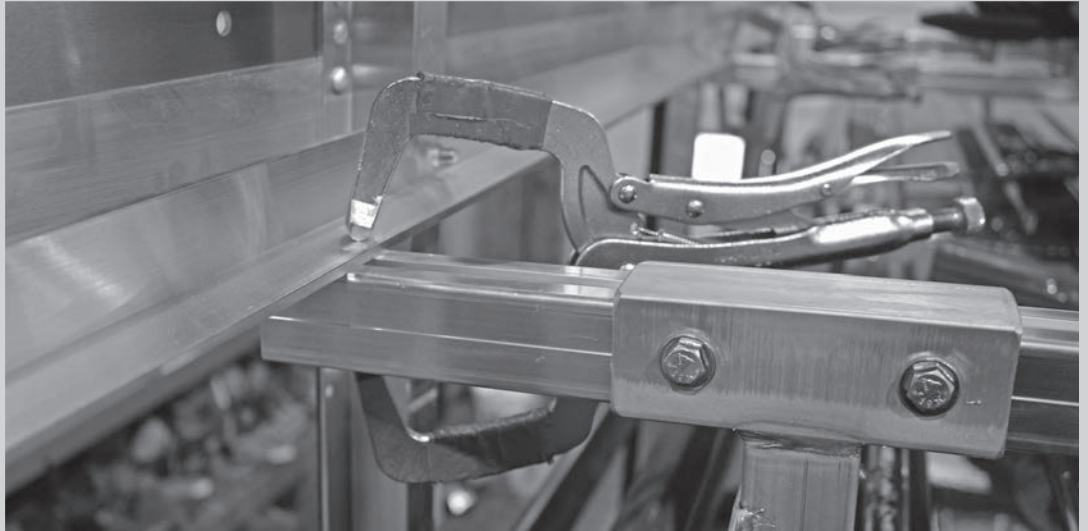
STEP 5: ATTACH ROOF RACK TO VEHICLE

Make sure both sides line up properly. Tighten the clamp bolts so that the mount is loosely attached to the rain gutter. Slide the aluminum cross bars through the opening at the top mount so that an equal amount of the cross bar protrudes outward from each mount. Drill 5/16" holes through the pre-drilled holes in the roof rack mount and cross bar. Bolt together with 2-1/4" bolts shown. Tighten clamp bolts.

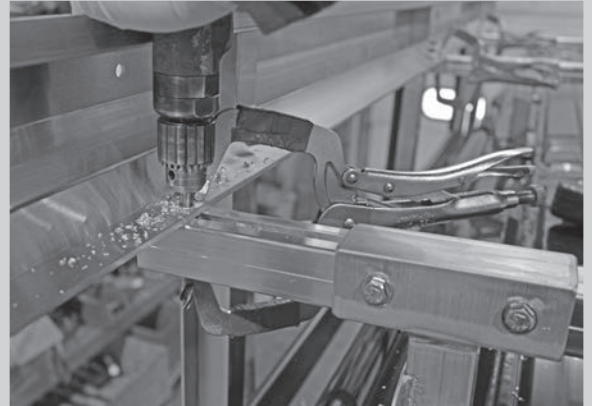


STEP 6: ATTACH GLASS RACK TO ROOF RACK CROSS-BARS

Hang the glass rack from the cross bars and temporarily clamp in place as shown. Be sure to check that the fuel door, and front and rear door of the van will be able to open. If the rack does not sit on all three cross bars due to the roof's curvature place a shim between the glass rack mounting angle and the roof rack crossbar.



Drill 3/8" holes through the mounting angle on the back of the glass rack and the end of each roof rack crossbar. For a strong connection be sure to drill through the center of the angle.



Bolt the rack mounting angle to the crossbars using 3/8" x 2-1/2" bolts from the V-10 hardware bag. Repeat this step for the second rack if you have a double-sided rack.



IT IS IMPORTANT TO RE-TIGHTEN ALL BOLTS ON THE ROOF RACK AND MOUNTING ANGLE

STEP 7: SET RACK ANGLE

Set the vertical angle of the glass rack by pivoting the bottom in or out. The recommended angle is 5 degrees. Try to keep at least 1/2" of space between the rack and the van. If the rack and van touch then place rubber or foam padding between them.



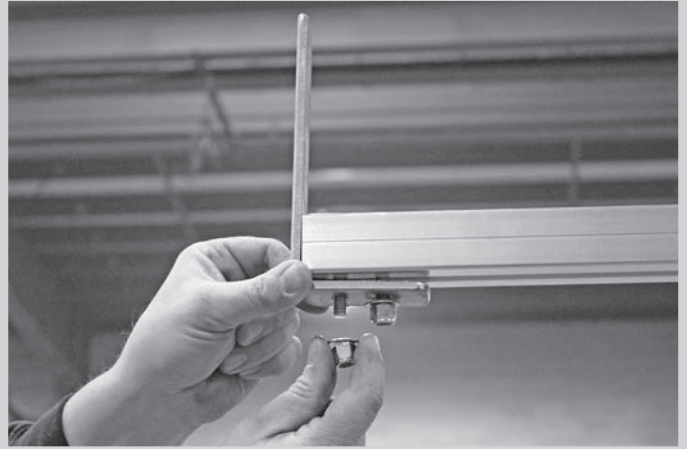
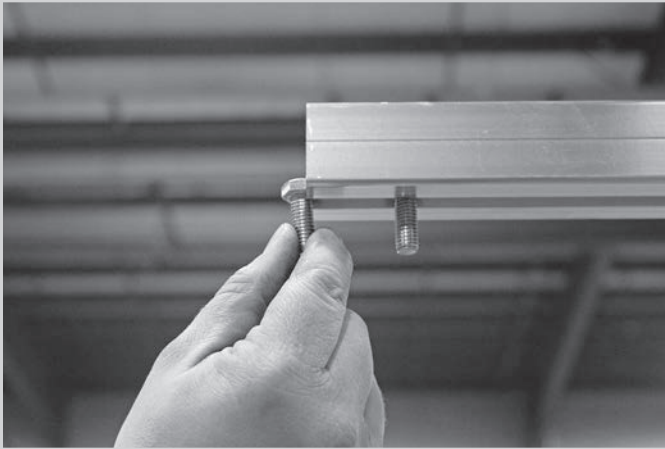
Add temporary shims between each vertical post and the van's side to set and hold angle. Remove shims after rack is attached to underbody mounts.



REMEMBER THE RACK AND VEHICLE MUST NOT EXCEED THE LEGAL OVERALL WIDTH OF 102"

STEP 8: ADD END HOOKS TO ROOF RACK CROSS BARS**IF YOUR RACK IS DOUBLE-SIDED SKIP THIS STEP****V-11 Hardware Bag**

| ITEM | SIZE | QTY |
|---------------------------|-----------|-----|
| L-Shaped End Hooks | | 3 |
| Hex Cap Screw Stainless | 3/8" x 1" | 6 |
| USS Flat Washer Stainless | 3/8" | 6 |
| Nylock Nut | 3/8" | 6 |



Add end hooks to each roof rack crossbar. On the non-rack side of the van, slide the heads of two 3/8" x 1" hex cap screws into the channel on the underside of the roof rack cross bar. With the longer "ladder keeper" portion of the end hook facing upward, thread the screws through the end-hook's two pre-drilled holes. Slide a 3/8" washer onto each bolt and secure the end hook with two 3/8" lock nuts.

**SKIP AHEAD TO SECTION 4 TO INSTALL UNDERBODY MOUNTS AND ATTACH BOTTOM OF RACK**

STEP 1: LOCATE PARTS AND HARDWARE**V-2 Hardware Bag for Mounting with Bolt-Through Channel**

| ITEM | SIZE | QTY |
|------------------------------------|----------------------------|-----|
| Stainless All Thread | 3/8"-16 2" | 5 |
| Hex Cap Screw Stainless | 3/8"-16 1" | 4 |
| Nylon Insert Locknut Plated | 3/8"-16 | 9 |
| Stainless Fender Washer | 3/8" 1-1/2" | 10 |
| USS Flat Washer Stainless | 3/8" | 18 |
| Rubber Wedge Shims | | 2 |
| Rack Support Clips for Rain Gutter | Long, Chevy Short, Ford | 2 |

STEP 2: DETERMINE PLACEMENT

Place the rack up against the side of the vehicle. Use jack stands or wooden blocks to level the rack and support it at the correct height.



For Ford or Dodge the top of the mounting hanger should be 1/2" below the rain gutter.

For Chevy or GM models the top of the mounting hanger should be 1-3/4" below the rain gutter.



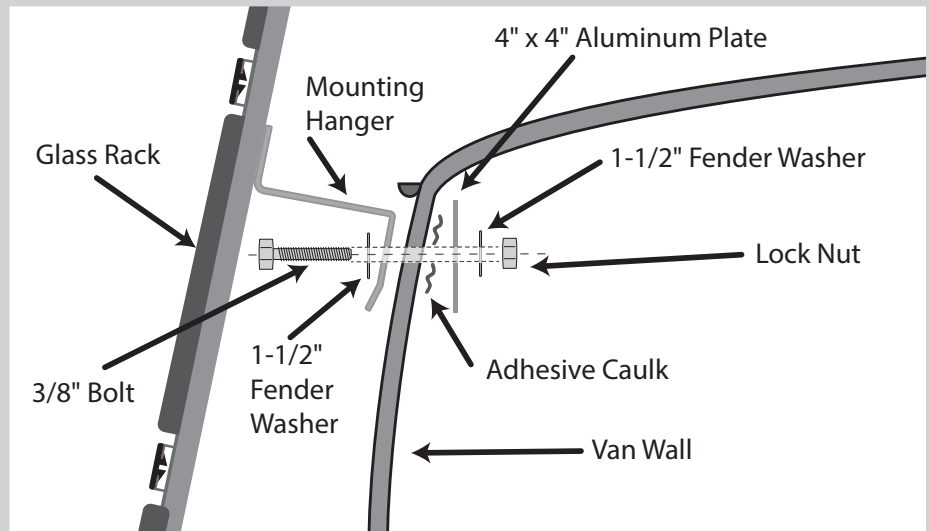
BE SURE TO CHECK THAT THE FUEL DOOR AND FRONT AND REAR DOOR OF VAN WILL BE ABLE TO OPEN.

STEP 3: DRILL MOUNTING HOLES

With the glass rack in a satisfactory position, drill five holes through the mounting hanger and the van's side wall. Make sure that the holes are fairly evenly spaced along the mounting hanger, and that the holes will not penetrate wall supports in the van's interior.



If you would like to add extra reinforcement to the van's wall secure a 4" x 4" aluminum plate on the inside wall with adhesive caulk and drill through it too. This technique will strengthen thinner sheet metal walls utilized on late model vans.



STEP 4: SET RACK ANGLE AND ATTACH TO VEHICLE

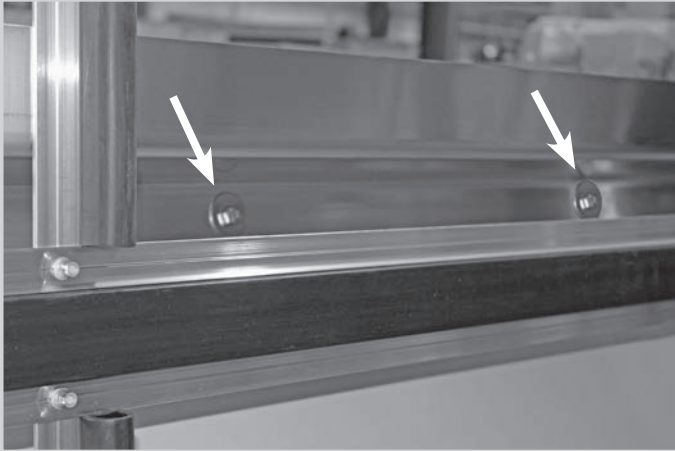
Set the vertical angle of the glass rack by pivoting the bottom in or out and adding temporary shims behind each vertical post to hold the rack in position. **The recommended angle is five degrees.** Try to keep at least 1/2" of space between the rack and the van. If they touch one another place rubber or foam padding between them.

The recommended vertical angle is five degrees. Add temporary shims to hold rack in position.



REMEMBER THE RACK AND VEHICLE MUST NOT EXCEED THE LEGAL OVERALL WIDTH OF 102"

Bolt the rack to the van with the 3/8" mounting hardware provided. Be sure to use the 1-1/2" fender washers and locknuts against the body on the inside.



STEP 5: RACK SUPPORT CLIPS FOR RAIN GUTTER

After the rack is bolted to the van, place these stainless steel clips over the van gutter and bolt through the mounting hanger using 3/8" bolts.



CHEVY SUPPORT CLIP - 3" TALL



FORD SUPPORT CLIP, 1-1/4" TALL



THIS CLIP PROVIDES ADDITIONAL STRENGTH AND IS AN IMPORTANT PART OF YOUR RACK. DO NOT SKIP THIS STEP.

Locate one clip near the front of the rack and one toward the rear of the rack, just before the gutter curves around at the back of the van. If necessary, add rubber shims provided between the clip and mounting channel.

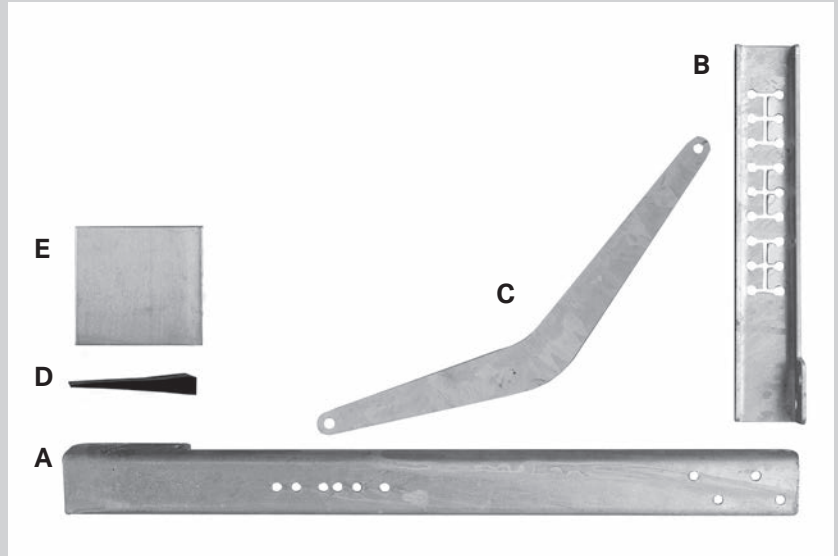


STEP 1: REVIEW PARTS AND HARDWARE

Before beginning this portion of your installation locate and review all parts and hardware bags. Please call (856) 595-9069 if anything is missing or you have questions.

UNDERBODY MOUNTS PARTS

- A. Horizontal Rack Support (3)**
- B. Vehicle Attachment Vertical Post (3)**
- C. Boomerang-Shaped Support Brace (3)**
- D. Rubber Wedge (3)**
- E. 4" x 4" Aluminum Wear Plate (3)**

**V-1 Hardware Bag for Under-Body Mounts**

| ITEM | SIZE | QTY |
|-----------------------------|----------------|-----|
| Zinc Self-Tapping Bolt | 3/8"-1 1/2" | 6 |
| Hex Cap Screw Stainless | 3/8"-16 1" | 12 |
| Hex Cap Screw Stainless | 3/8"-16 1-1/2" | 8 |
| Hex Cap Screw Stainless | 3/8"-16 4" | 2 |
| Nylon Insert Locknut Plated | 3/8"-16 | 22 |
| USS Flat Washer Stainless | 3/8" | 15 |
| Split Lock Washer Stainless | 3/8" | 6 |

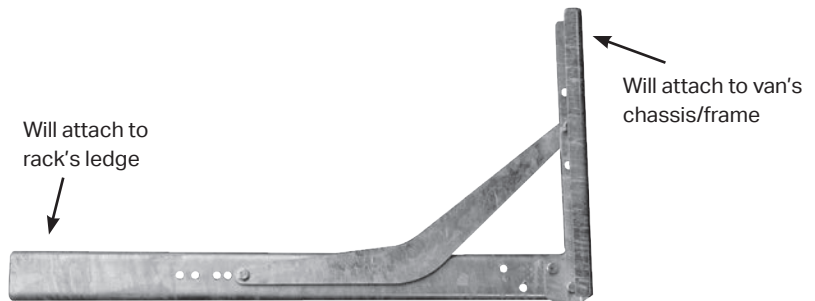


IF THE GLASS RACK IS DOUBLE-SIDED THERE WILL BE ADDITIONAL UNDERBODY MOUNTS AND ANOTHER V-1 HARDWARE BAG

STEP 2: PRE-ASSEMBLE MOUNTING BRACKETS:

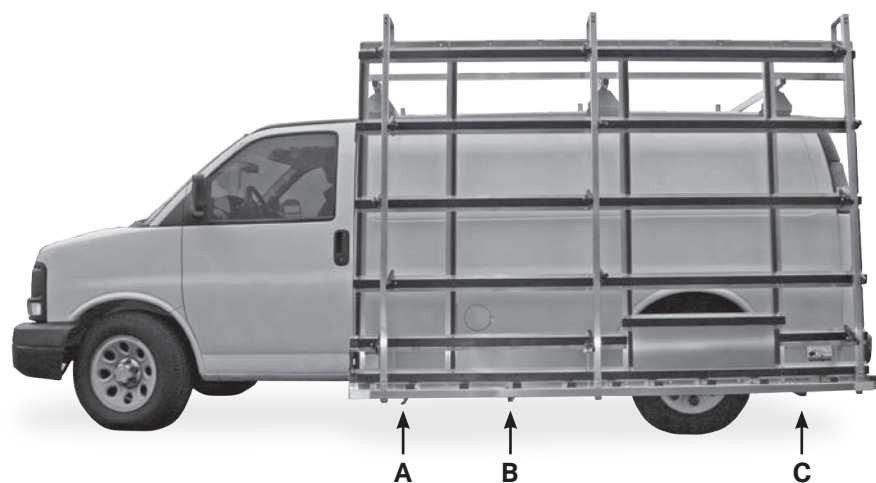
Your crate contains three underbody mounts for single-sided rack configurations or six underbody mounts for double-sided rack configurations.

Assemble the vertical vehicle attachment post, horizontal rack support and boomerang support brace using 3/8" x 1" bolts and locknuts.

**STEP 3: PLACEMENT OF UNDERBODY MOUNTS**

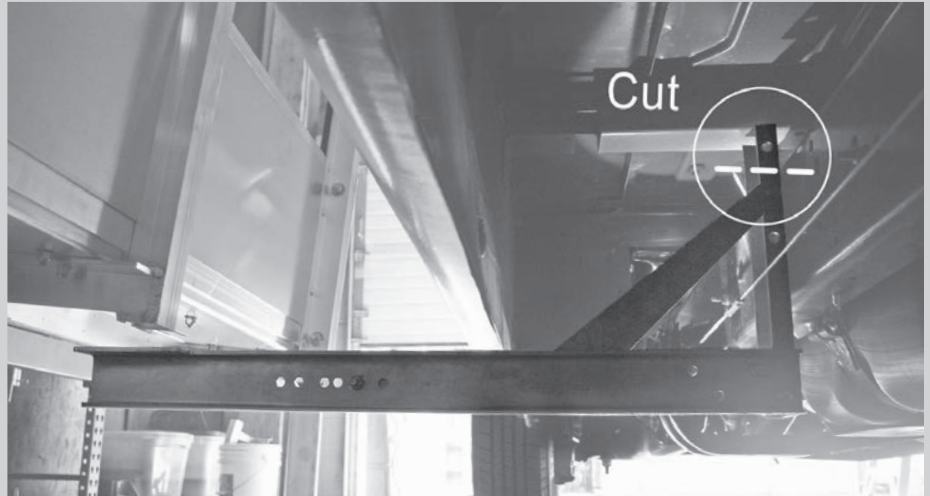
The shorter vertical posts of the underbody mounts attach to the van's chassis/frame and the longer horizontal rack supports extend beyond the van's outer wall to underneath the rack's ledge. Be sure not to interfere with any components on the van's chassis when attaching the underbody mounts. The approximate location of each underbody mount is:

- A. FRONT – As close to the front edge of the rack as possible
- B. CENTER – In front of the van's rear wheels, outside of the leaf springs as to not interfere with the van's suspension.
- C. REAR – Behind the rear wheels, outside of the leaf springs.



If your rack sits high on the van **it may be necessary to cut off the top portion** of the vehicle attachment post so the horizontal rack support is closer to the rack's ledge.

Locate the underbody mounts on the chassis so the horizontal rack support meets the underside of the glass rack's ledge. Be sure the horizontal rack support is as close as possible to the glass rack's bottom ledge.



STEP 4: ATTACH MOUNTS TO VEHICLE

Using self-tapping 3/8" x 1-1/2" bolts with lock washers, bolt the mounting brackets to the van's frame. Be sure the long arm of the bracket extends under the glass rack's bottom ledge. Sometimes at the rear underbody mount you can through-bolt with two 1-1/2" x 3/8" bolts, washers and lock-nuts. Once the underbody mounts are installed secure all bolts. Newer Chevy models can use 4" bolts to secure the rear underbody mount to the chassis/frame.

Be sure to use a minimum of two bolts per bracket through the chassis frame. Place one bolt high and one bolt low on the van's frame.

Do not interfere with brake lines, fuel tanks, fuel hoses, etc. You can vary the location of the boomerang shaped supports to work around cables and other obstacles



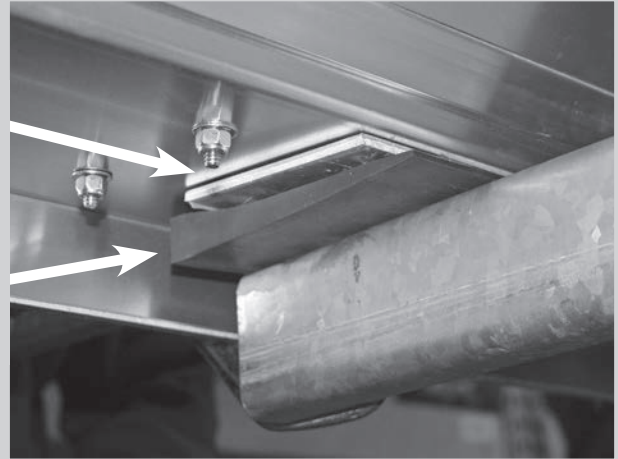
THE BRACKETS MAY HAVE TO BE MODIFIED IF YOU ENCOUNTER OBSTACLES. CALL (856) 595-9069 IF YOU ARE UNSURE

STEP 5: ATTACH RACK TO MOUNTS

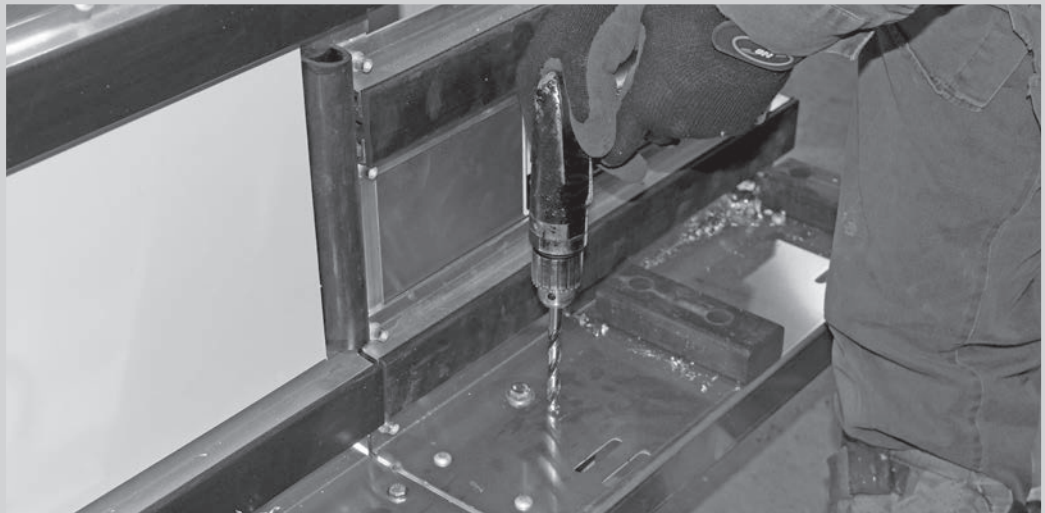
Place the 4" x 4" aluminum wear plate between top of the underbody mount and underside of the ledge. Trim the plate as needed, then add rubber shims to fill the space.

4" x 4" aluminum wear plate

Rubber shim



Drill 3/8" holes through the ledge and top flange of each mounting bracket's horizontal rack support. Avoid drilling where rubber ledge blocks are located on ledge. Secure using 3/8" x 1-1/2" bolts, washers and nuts.



DOUBLE-CHECK THAT ALL NUTS AND BOLTS ARE TIGHTENED

STEP 1: LOCATE PARTS AND HARDWARE**V-12 Hardware Bag for Front Stop**

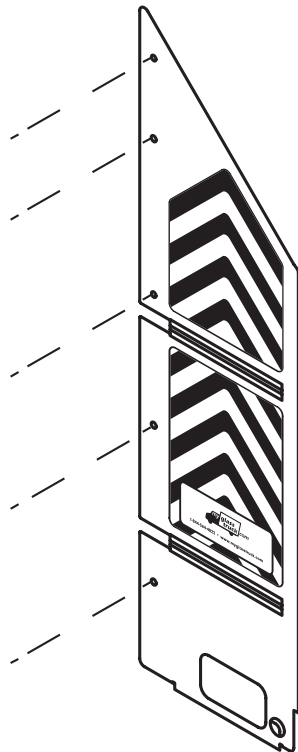
| ITEM | SIZE | QTY |
|----------------------|---------------|-----|
| Hex Cap Screw | 1/4" x 2-1/2" | 5 |
| USS Flat Washer | 1/4" | 10 |
| Nylon Insert Locknut | 1/4" | 5 |



IF THE RACK IS DOUBLE SIDED THERE WILL BE AN EXTRA FRONT STOP AND V-6 HARDWARE BAG

STEP 2: INSTALL FRONT STOP

The glass rack front stop is shipped detached from the rack. To attach, bolt the stop directly to the front of the glass rack through the pre-drilled holes using the 2-1/2" x 1/4" bolts provided.

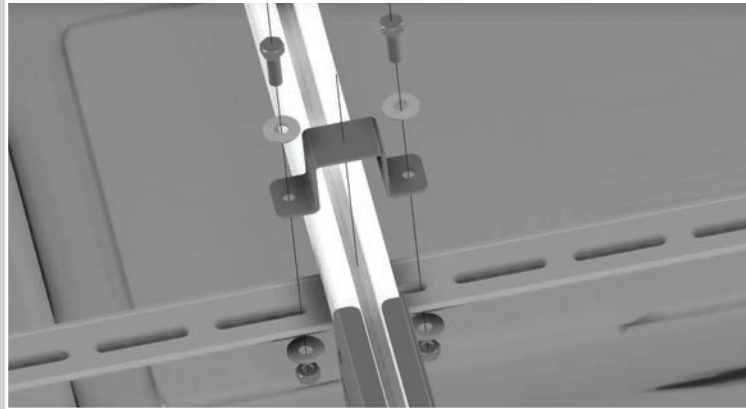


INSTALL OPTIONAL ROLLER-BAR**V-13 Hardware Bag**

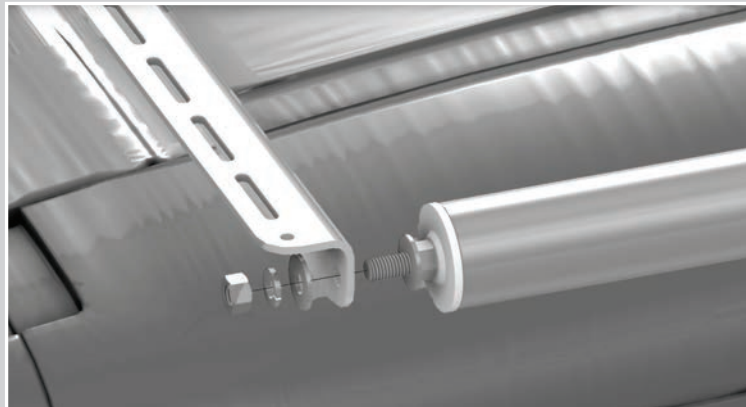
| ITEM | SIZE | QTY |
|---------------------------|-----------|-----|
| Hex Cap Screw Stainless | 3/8" x 1" | 8 |
| USS Flat Washer Stainless | 3/8" | 16 |
| Nylock Nut | 3/8" | 8 |

1. Loosely bolt the formed angles with the supplied brackets to the roof rack crossbars.

Ensure where the roller will mount will clear the brake light / camera.



2. Remove the 1/2" nut from threads on each end of roller bar (not shown) and insert threaded ends through 1/2" holes on each angle.



3. Place bolts back onto the threads at each end of the roller bar and tighten all bolts, including bolts holding angles to roof rack mounts.

Check to be sure roller bar spins freely.

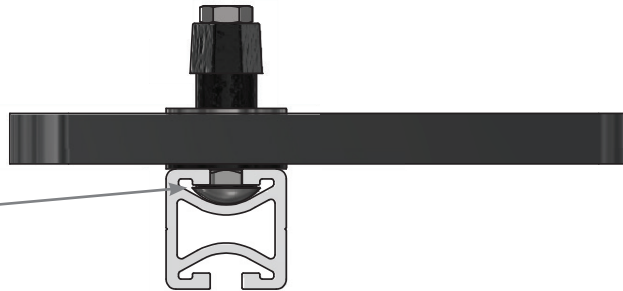


STEP 1: POLE HARDWARE, CLEATS AND COMPONENTS

Slide the head of a stainless steel bolt down the pole's channel. Assemble hardware and cleat as shown. Slide three cleats onto one side of the pole and two onto the other side.

Top View**Assembled Cleat****Note:**

Black .50 Nylon Washer
(must be on carriage
bolt inside of channel)

**Exploded View****Cleat Components**

Nylock Nut
(tighten flush to bolt top)

Wing Nut

Stainless Steel Flat Washer

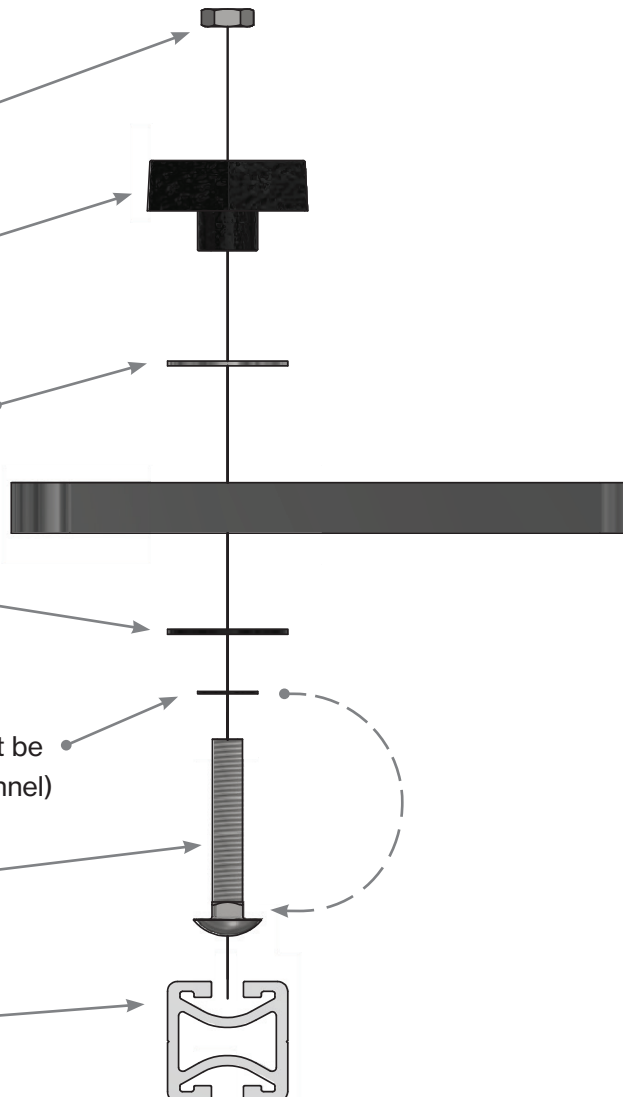
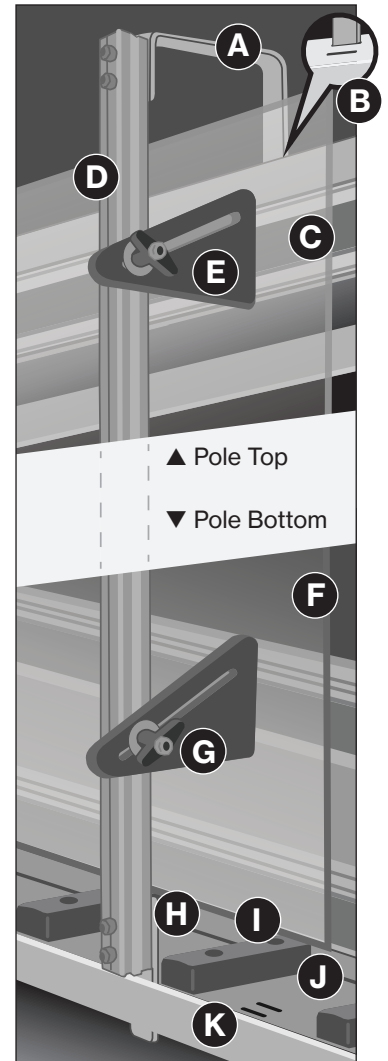
Cleat

Black Nylon Glide Washer
(between cleat and shaft)

Black .50 Nylon Washer (must be
on carriage bolt inside of channel)

Carriage Bolt
(head slides inside channel)

Glass Pole Shaft
with Channels

**Glass Pole Parts**

▲ Pole Top

▼ Pole Bottom

- A. Standard Pole Hook
- B. Top Slots - Along top of rack header rail
- C. Rubber Padding
- D. Pole Shaft
- E. Cleat
- F. Glass
- G. Wing-Nut
- H. Standard Pole Tab
- I. Bottom Pad
- J. Glass Rack Ledge
- K. Bottom Slots

Glass Pole Instructions

1. Remove poles from rack before loading glass.
2. Ensure load space is clean and clear of debris.
3. Ensure rubber padding is in good condition.
4. Place glass on rack flat against rubber padding. Distribute the load evenly on both sides of vehicle (if equipped).
5. Inspect poles, cleats and wing-nut hardware to ensure it's intact and in proper working order.
6. Place all poles onto rack over top of glass. The bottom and top section of poles must be securely placed in slots located at top and bottom of rack.
7. Push cleats flat against glass, then tighten wing-nuts by hand. Cleats must be firmly against glass so no movement of glass is possible.
8. On long trips, periodically check wing-nuts for tightness.



WARNING

Shifting cargo due to improper loading can result in sudden loss of control of vehicle, cargo or glass coming off of rack, or glass breakage. This can lead to death or serious injury. You must:

- Make certain weight of load plus rack weight does not exceed vans weight capacity (GVWR - Gross Vehicle Weight Rating).
- Evenly distribute load on the driver and passenger side of vehicle (if equipped with two racks).
- Consider adjusting the contents inside the vehicle to account for the weight on the rack.
- Properly secure load to rack using glass poles and/or straps. Inspect and test all load securement devices before each use.



WARNING

If rack is E-Track equipped, only use load securement products compatible with E-Track.

Do not use damaged or loose tie down rings, straps or track. They can fail or break, allowing cargo to become loose resulting in death or serious injury.

Refer to www.fmcsa.dot.gov for regulations regarding cargo securement rules

CHECK FOR YES

- ☐ Roof rack is attached to van properly and all bolts are tight (roof rack mount)
- ☐ All bolts are tight where glass rack attaches to roof rack (roof rack mount)
- ☐ All bolts are tight where glass rack attaches to van body (bolt-through mount)
- ☐ All underbody mounts are installed properly and tight
- ☐ All bolts securing rack ledge to underbody mounts are tight
- ☐ Wheel skirt is bolted on properly
- ☐ Front stop is securely bolted in place
- ☐ Cleats are attached properly to all poles

**MyGlassTruck****VICTORY**

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Division of Victory Truck Body, Inc.**

**For Questions, Service, and Parts:**

Phone: (856) 595-9069

Web: <https://parts.victorytruckbody.com/collections/glass>