



Aluminum Glass Rack Installation Instructions for  
**Metris Vans** (2016 to Present)

**MyGlassTruck.com**

**(844) 364-4022**

## Thank You for Choosing MyGlassTruck.com 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 (844) 364-4022. Our qualified personnel will gladly provide answers.



### CAUTION

Demountable Concepts, 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 Demountable Concepts, Inc. engineering department at **(844) 364-4022**. 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.

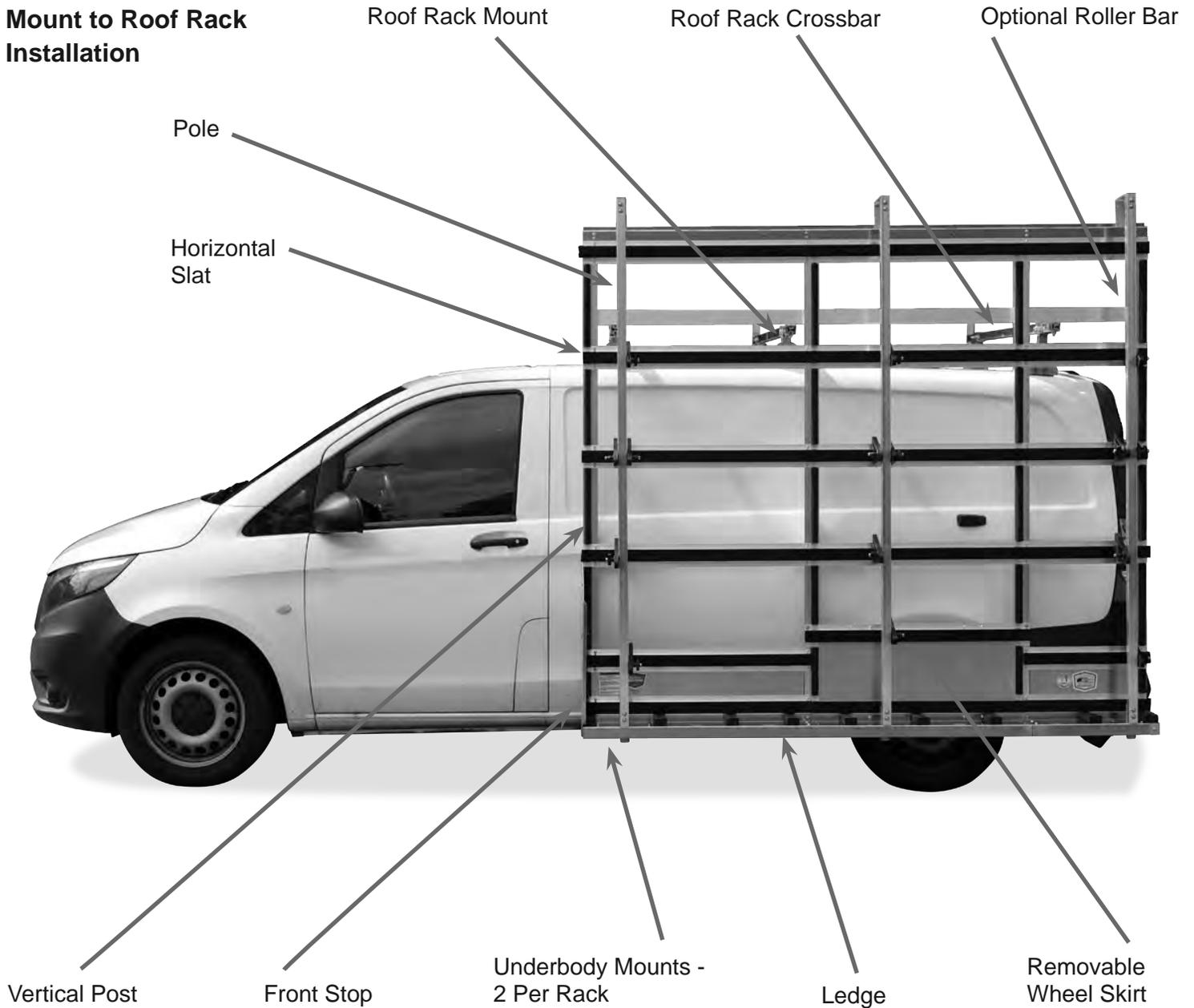


### DO THIS BEFORE YOU START

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 (844) 364-4022. We will be happy to assist you.

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## BECOME FAMILIAR WITH YOUR GLASS RACK

Mount to Roof Rack  
Installation

## Tools Required for Installation

- Wrenches: 7/16", 1/2", 9/16"
- Hex Socket: 7/16", 1/2", 9/16", 10 mm
- Socket Wrench
- Cordless Electric or Pneumatic Impact Gun
- Drill with 5/16" and 3/8" Bits
- Vise-Grip-Style Clamps

## STEP 1: LOCATE PARTS AND HARDWARE

## ROOF RACK PARTS

## A. Roof Rack Mounts

*Short Mounts: (4)**Tall Mounts: (2)*

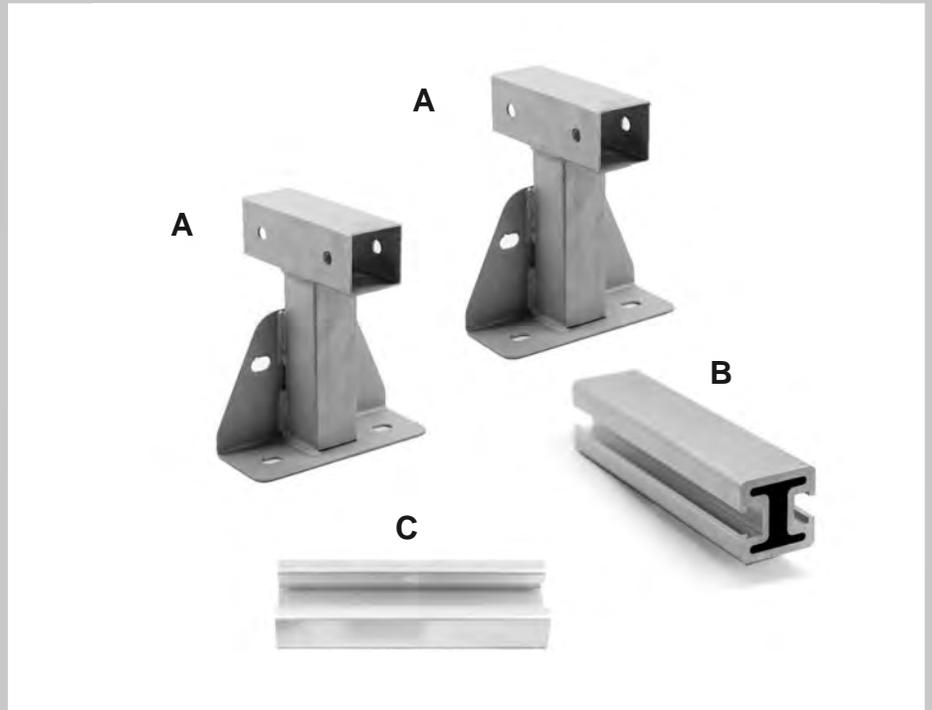
## B. 75" Crossbars

## C. Metris Adapter (2)

*(For Single-Sided Racks)*

## CUSTOMER SUPPLIED

A. Red Lok-Tite



## Hardware for mounting Roof Rack Mounts to Metris roof

ITEM	SIZE	QTY
Rubber Washers	1/4"	12
M6-35mm bolts	M6	12
1/4" Lock Washer	1/4"	12
1/4" Fender Washer	1/4"	12

**STEP 1: LOCATE PARTS AND HARDWARE****V-8 Hardware Bag for Attaching Crossbars to Roof Rack Mounts**

ITEM	SIZE	QTY
Hex Cap Screws Stainless	5/16" x 2-1/4"	16
USS Flat Washers Stainless	5/16"	32
Nylon Insert Locknut Plated	5/16"	16

**V-10 Hardware Bag for Attaching Glass Rack to Roof Rack**

ITEM	SIZE	QTY
Hex Cap Screws Stainless	3/8" x 2-1/2"	4
USS Flat Washers Stainless	3/8"	8
Nylon Insert Locknut Stainless	3/8"	4

**REFERENCE PHOTO**

Roof Rack crossbar attached to mounts.



## STEP 2: ATTACH ROOF RACK MOUNTS TO METRIS ROOF

1.



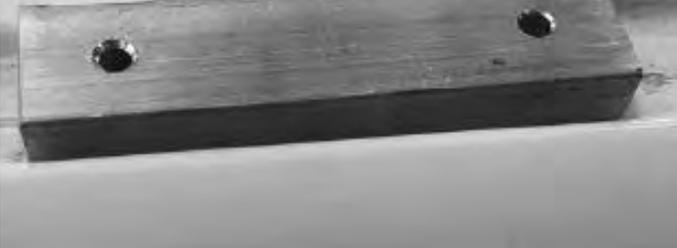
1. Remove plastic plugs from where the roof mounts will be located. (12 plugs total)

2.



2. Place 1/4" rubber washers above holes.

3.



3. Place Metris Adapter above washers. Line it up with the roof holes and washers.

4.



4. Loosely secure roof rack mounts to adapter using M6 bolts with washers and lock washers from the hardware bag for roof rack mounts. It's important that the tall roof mounts are located at the rear of the van.

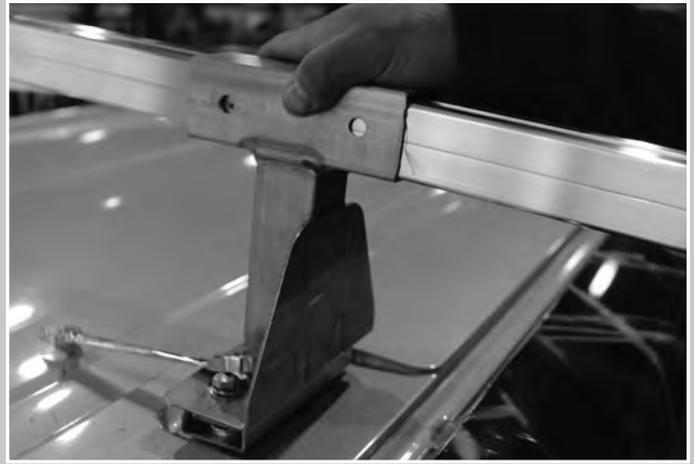
**IMPORTANT**

Tall Roof Rack Mounts Must be Located at the Rear of the Van

## STEP 3: ATTACH 75" CROSSBARS TO ROOF RACK MOUNTS



1. Slide 75" crossbars through openings of roof rack mounts so they protrude evenly on either side of the roof mounts.



(Detailed view of Step 1)



2. Using the predrilled holes in the mounts as guide, drill 5/16" holes through the crossbars.



3. Use 5/16" x 2-1/4" bolts, washers and lock-nuts from hardware bag V-8 to fasten crossbars. **NOTE:** Do not tighten bolts fully until crossbars are in final position.



### TIGHTEN ALL HARDWARE ONCE CROSSBARS ARE FINAL POSITION

1. Make sure bolts from roof rack mounts to roof rack adapters are tightened
2. Tighten bolts from roof rack mounts to cross bar

**STEP 4: ATTACH GLASS RACK TO ROOF RACK CROSS-BARS**

Hang the rack on the crossbars using the mounting angle that is attached to the back of the glass rack.



Drill  $3/8$ " holes through the angle and the crossbar, be sure to drill through the center of the angle on the back of the glass rack. Bolt the rack to the each of the cross bars using the  $3/8$ " x  $2-1/2$ " bolts from hardware bag V-10.

**$3/8$ " x  $2-1/2$ " bolts inserted through mounting angle and roof rack crossbar. Use washer above angle and washer and nut below crossbar.**



**Above Cross Bar View**



**Below Cross Bar View**

**STEP 1: PIVOT AND SHIM RACK**

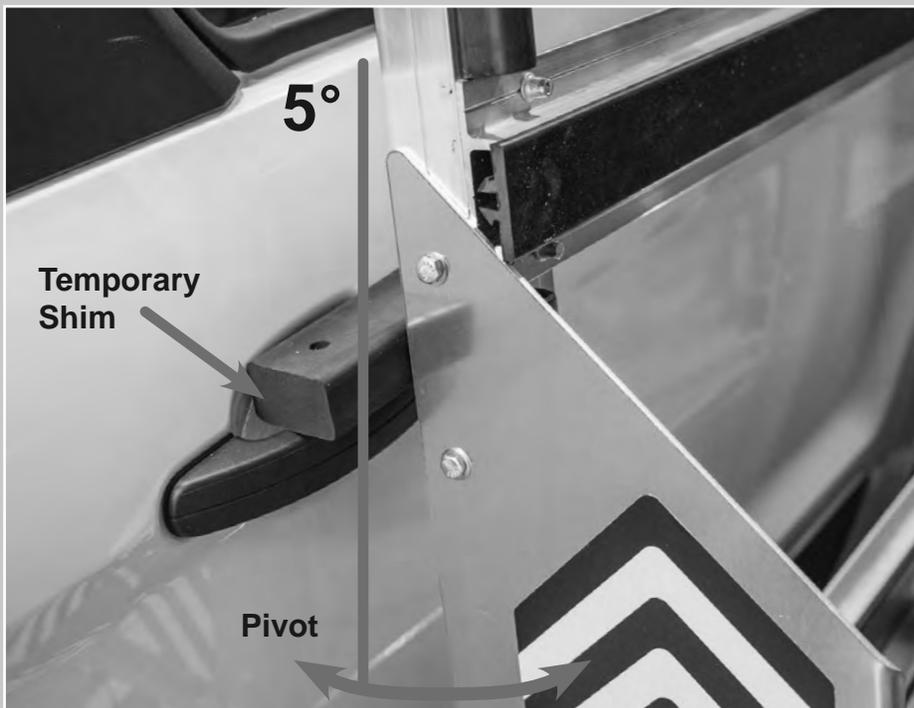
Set the vertical angle of the glass rack by pivoting its bottom in or out. **The recommended angle is 5 degrees.** Be sure to keep the rack as close to the vehicle as possible. But, also try to keep at least 1/2" of space between the rack and the van. If the rack and van touch, place rubber or foam padding between them.

### The Recommended Rack Angle is 5 Degrees

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(s) and vehicle must not exceed the legal overall width of 102"



**Tip:** Download an app for your smartphone to quickly check the recommended five degree angle



**STEP 6: ADD END HOOKS TO ROOF RACK CROSS BARS**

Use hardware bag V-11. 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.



**Note:** If installing a rack on both sides of van, L-Hooks will not be installed.



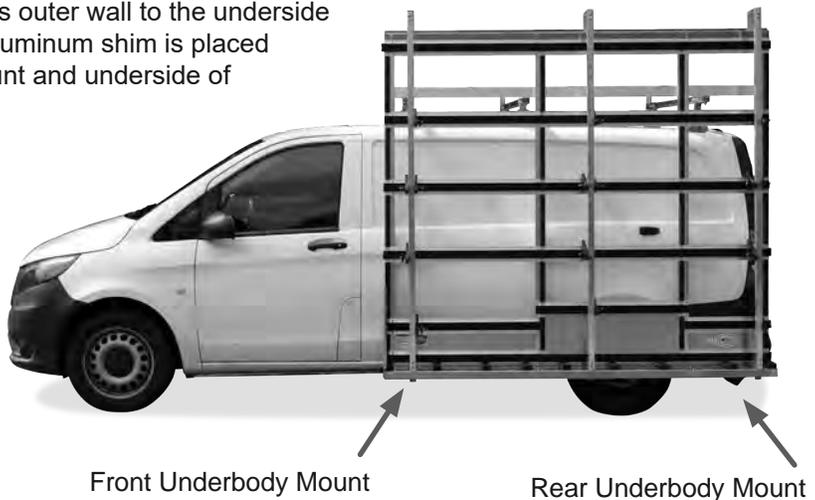
**V-11 Hardware Bag (L-Hooks are Packed Separately from Hardware)**

ITEM	SIZE	QTY
Hex Cap Screw Stainless	3/8" x 1"	8
USS Flat Washer Stainless	3/8"	8
Nylock Nut	3/8"	8
L-Shaped End Hooks		4

**See photo on next page.** The flat portion of the underbody mount with the pre-drilled holes attaches to the van's chassis/frame. To support the rack, the longer horizontal portion with the flange and pre-drilled slotted holes extends beyond the van's outer wall to the underside of the rack's ledge. An aluminum shim is placed between underbody mount and underside of the rack's ledge.

**REFERENCE PHOTO:**

**Approximate placement of the underbody mounts.**

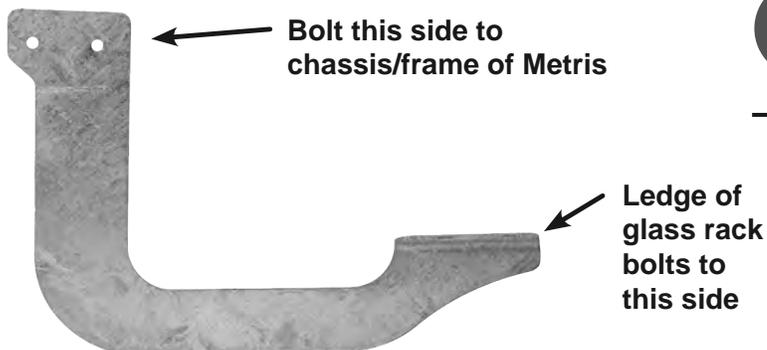


## STEP 1: INSTALL UNDERBODY MOUNTS

Attach all underbody mounts to the Metris's chassis before drilling and mounting rack ledge to underbody mounts. Use hardware bag S-X

S-X Hardware Bag	SIZE	QTY
Hex Cap Screw Stainless	3/8" x 5.5"	2
Hex Cap Screw Stainless	3/8" x 3.5"	2
Hex Cap Screw Stainless	3/8" x 1.5"	6
Washer	3/8"	20
Fender Washer	3/8" x 1.5"	20
Locknut	3/8"	10

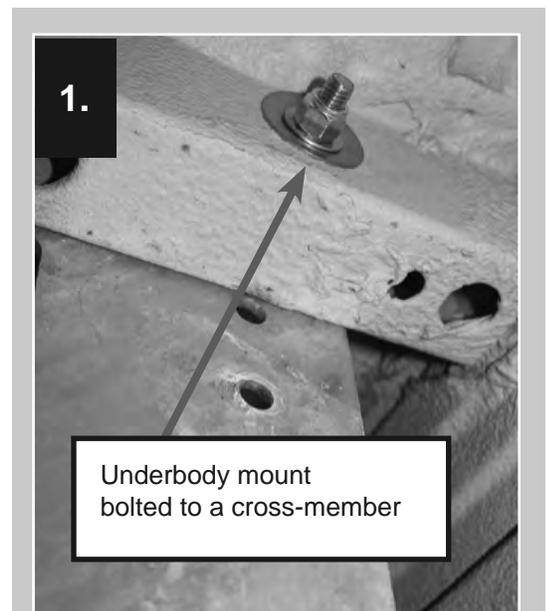
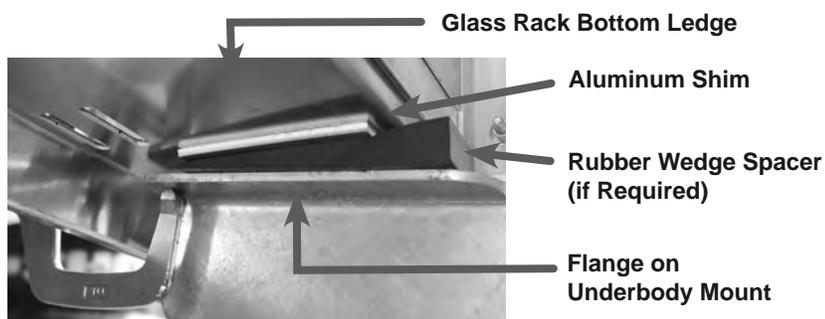
## Underbody Mount Orientation



**Note:** If installing a Double-Sided rack, make sure your vehicle does NOT EXCEED the 102" wide legal DOT limit.

## Install Front Underbody mount(s)

1. The top of the FRONT underbody mounts attach to the horizontal chassis cross bars where they meet the floor and rocker panel along the vans outer wall. **Clamp underbody mount(s) to the cross-member(s) to ensure a proper fit before drilling.**
2. **Before drilling** make sure the horizontal portion of the underbody mount is clamped to the underside of the rack's ledge. Be sure the included aluminum shim and rubber wedge spacer (if required) is between the mount and the ledge.



- Using the holes in the underbody mounts as a guide, drill holes through the chassis cross bars.

Make sure that the flanges that bolt to the bottom ledge are as close to the ledges as possible.

### Install Rear Underbody Mounts

- Located on the main frame rail at the REAR of the van are 2 pre-drilled holes. Use these to mount the Metris underbody mount adapter using supplied  $3/8 \times 3-1/2$ " bolts.

Now the under body mounts can be attached to the adapter using supplied  $3/8 \times 1-1/2$ " bolts.

Once the underbody mounts are attached to the Metris, you can begin attaching the glass rack to the underbody mounts



## STEP 2: ATTACH BOTTOM OF RACK TO UNDERBODY MOUNTS



**IMPORTANT:** At this point make sure that the rack is flat and not twisted. Adjust clamps from underbody mounts to ledge as needed

- Using slotted holes in the part of the mount underneath the rack's bottom ledge and the aluminum shim as a guide, drill two  $3/8$ " holes through the rack's bottom ledge. Be sure not to drill through any ledge blocks.
- Place  $3/8 \times 1-1/2$ " bolts through the rack's bottom ledge and aluminum shim. Place washer and nut onto underside and tighten.



**TIGHTEN ALL HARDWARE:** Double-check that All Nuts and Bolts are Tightened

## SECTION 6

## Install Front Stop and Optional Roller Bar

### STEP 1: INSTALL FRONT STOP

First locate parts and hardware bag V-12. 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.

### PARTS AND HARDWARE

Front Stops - 1 per Rack

V-12 Hardware Bags -  
1 per rack



## SECTION 7

## Install Optional Rear Roller-Bar

### INSTALL ROLLER-BAR

#### Use the V-13 Hardware Bag

ITEM	SIZE	QTY
Hex Cap Screw Stainless	3/8" x 1"	4
USS Flat Washer Stainless	3/8"	8
Nylock Nut	3/8"	4



1. Loosely bolt the 2" angles for roller bar to 2 rear roof rack mounts so that the end with the 1/2" hole extends beyond the rear of the van. Do this on both the driver and passenger side.

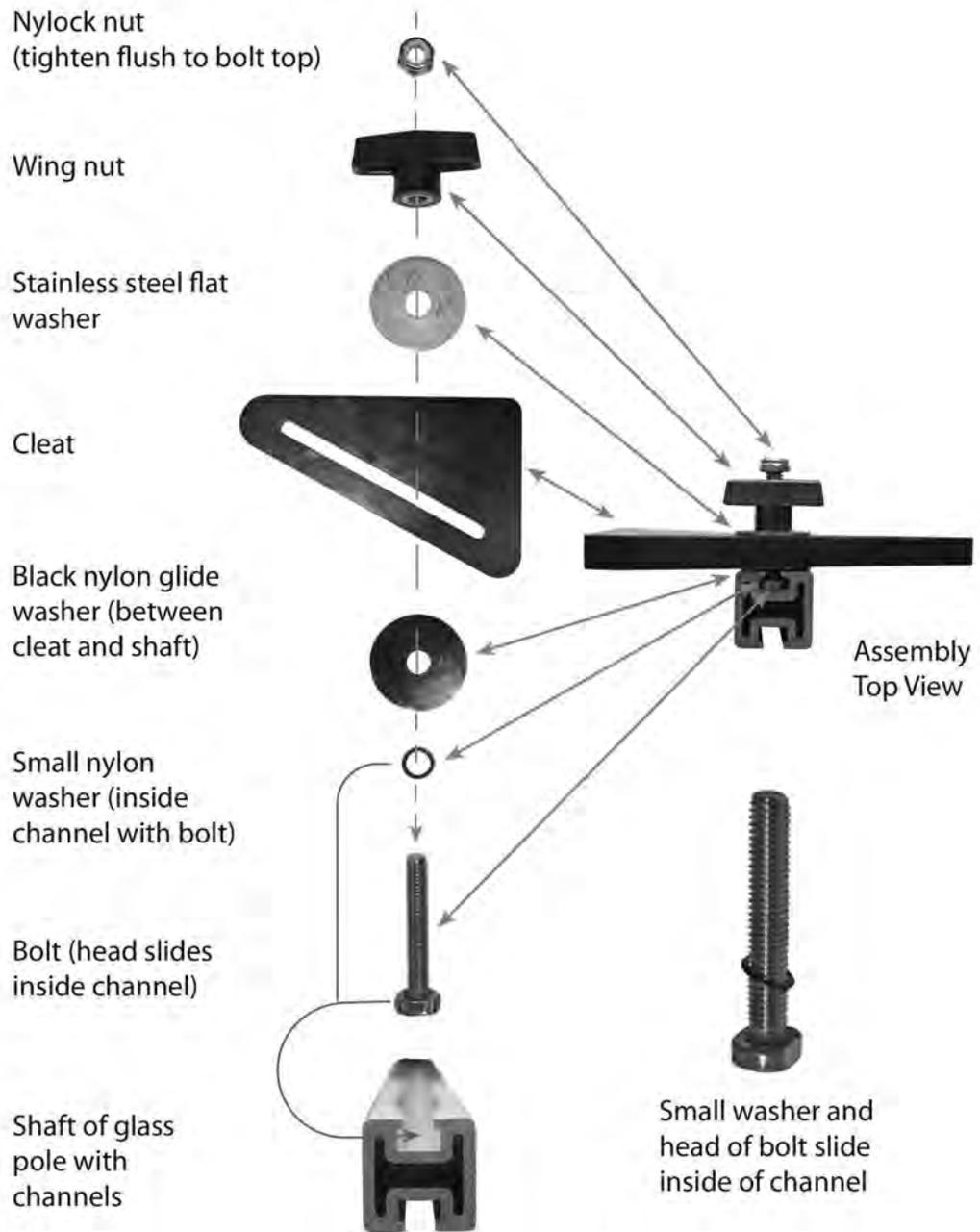
2. Remove the 1/2" nut from threads on each end of roller bar (not shown) and insert threaded ends through 1/2" holes on each angle.

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.

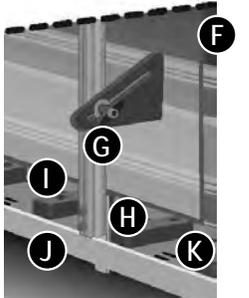
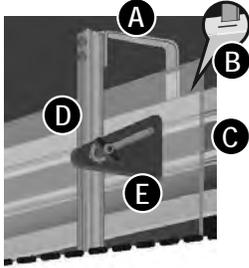
**!** Make Sure Roller Bar Spins Freely.

**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.



## Glass Pole Instructions



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

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](http://www.fmcsa.dot.gov) for regulations regarding cargo securement rules



## Final Inspection Checklist

- Roof rack is attached to van properly and all bolts are tight
- All bolts are tight where glass rack attaches to roof rack
- 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

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## For Service and Parts:

Phone: (844) 364-4022

E-mail: [sales@myglasstruck.com](mailto:sales@myglasstruck.com)

Web: [MyGlassTruck.com](http://MyGlassTruck.com)

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