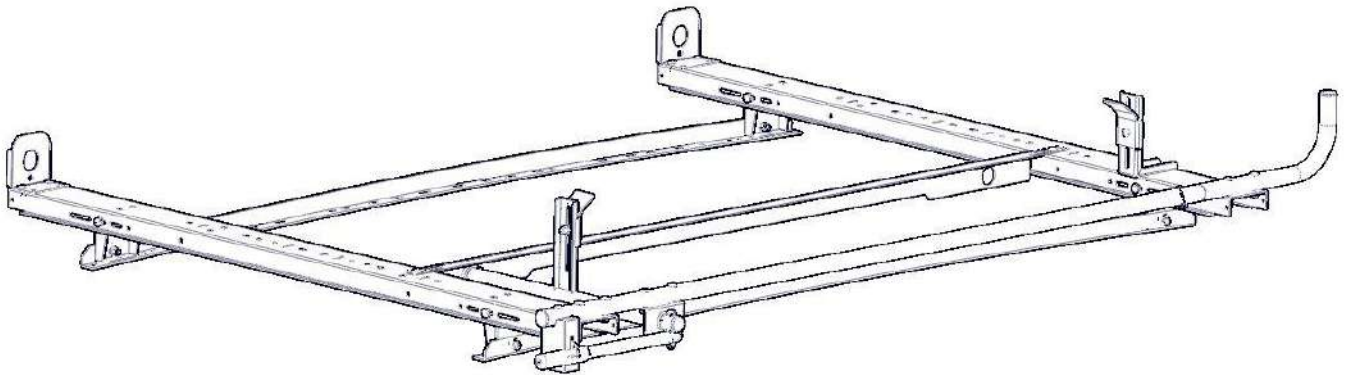

KARGO MASTER[®]

WE PUT EVERYTHING WITHIN REACH.

Instruction Guide

4A873



PLEASE READ ALL INSTRUCTIONS AND WARNINGS PRIOR TO ASSEMBLING, INSTALLING, AND USING THIS PRODUCT

Warning



Always check for wires, fuel tanks and lines, brake lines and other important vehicle functionality items prior to drilling and installing all products.

Tools Needed

| | |
|-------------------------|------------------------|
| 13mm Socket and Wrench | 10mm Socket and Wrench |
| 5mm Allen Hex | 5/32" Allen Hex |
| 7/16" Socket and Wrench | 1/2" Socket and Wrench |
| 9/16" Socket and Wrench | |




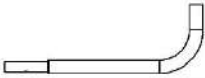
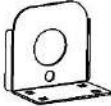





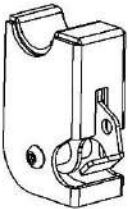
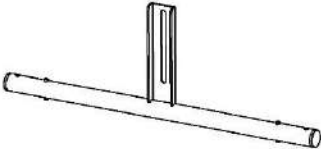

Table of Contents

| | |
|--|-----|
| Parts List | 2 |
| Assembly Hardware | 3-4 |
| Install Hardware | 5 |
| Roof Rail Mounting | |
| Promaster City | 6 |
| NV200/City Express | 7 |
| Transit Connect | 8 |
| Rack Assembly | |
| Step 1 – Assembly of Foot | 9 |
| Step 2 – Ladder Stops | 9 |
| Step 3 – Mount to Rails | 10 |
| Step 4 – Assemble Side Tube | 10 |
| Step 5 – Mount Side Tube | 11 |
| Step 6 – Clamp Tube | 12 |
| Step 7 – Handle | 13 |
| Step 8 – Latch Assembly | 14 |
| Step 9 – Ladder Hook | 14 |
| Step 10 – Ladder Hook to Bracket | 15 |
| Step 11 – Ladder Hook Bracket to Bow | 15 |

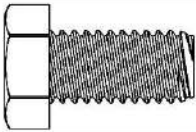
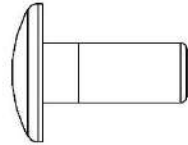
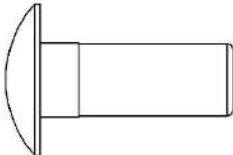
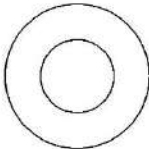
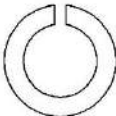
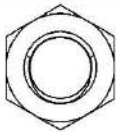
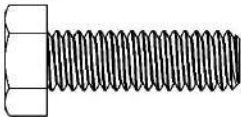

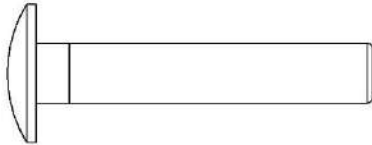
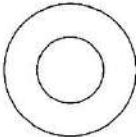
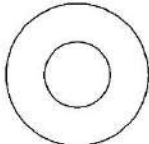
Before You Begin

- Read all instructions. Find your vehicle roof rail mounting prior to rack assembly.
- Be sure to put E6000 sealant around all threads entering cargo area and between the rubber spacer and roof of vehicle to prevent water from leaking into cargo area.
- **DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF**

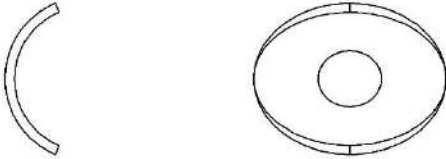


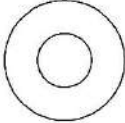


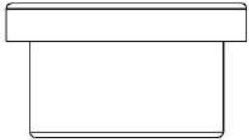
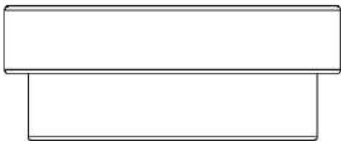
Parts

| PART NUMBER | | DESCRIPTION | QTY. |
|--------------|---|--------------------------|------|
| 4A800-00-001 |  | Cross Bow | 2 |
| 4A800-00-002 |  | Top Rail | 2 |
| 4A800-00-003 |  | Side Bar | 1 |
| 4A800-00-004 |  | Side Support Bar | 1 |
| 4A800-00-005 |  | ladder stop | 2 |
| 4A800-00-006 |  | Clamp and Lock L Bracket | 1 |
| 4A800-00-007 |  | rotation bar plate | 1 |
| 4A800-00-008 |  | ladder hook bracket | 1 |
| 4A800-01 |  | ladder hook | 2 |
| 4A800-10 |  | Foot ASM | 4 |
| 4A800-20 |  | Latch Assy. | 1 |
| 4A800-30 |  | Clamp Tube | 1 |
| 4A800-40 |  | Handle | 1 |

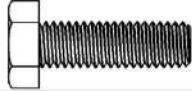


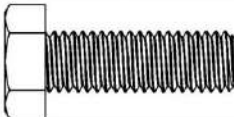
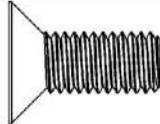
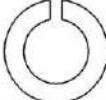
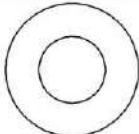
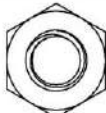
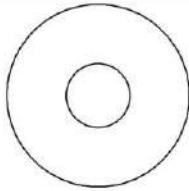
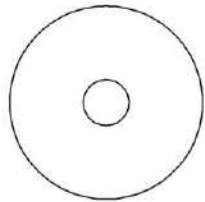

Assembly Hardware

| ITEM NO. | TO SCALE | PART NUMBER | DESCRIPTION | QTY. |
|----------|---|---------------------------------|---------------------------------|------|
| 1 |  | .375-16x.75 Hex Head | 3/8-16x3/4 Hex Bolt | 8 |
| 2 |  | .312x.75 carriage | 5/16-18x3/4 Carriage Bolt | 4 |
| 3 |  | .375-16 x 1 Carriage bolt | 3/8-16x1 Carriage Bolt | 3 |
| 4 |  | .375 Flat Washer | 3/8 Flat Washer | 13 |
| 5 |  | .375 Lock Washer | 3/8 Lock Washer | 8 |
| 6 |  | 95615A140 | 3/8-16 Nylock | 5 |
| 7 |  | 92620A583 | 5/16"-18 x 1 Hex Bolt | 4 |
| 8 |  | .312-18 x 2.75 HH | 5/16-18x2 3/4 Hex Bolt | 1 |
| 9 |  | .312-18 x 1.75 Carriage Bolt | 5/16-18 x 1.75 Carriage Bolt | 7 |
| 10 |  | .312 Flat Washer | 5/16 Flat Washer | 20 |
| 11 |  | 90295A160 | .06x.34x.75 Nylon Washer | 1 |

Assembly Hardware (con't)

| ITEM NO. | TO SCALE | PART NUMBER | DESCRIPTION | QTY. |
|----------|---|-------------------|----------------------|------|
| 12 |  | 91844A230 | 5/16" Contour Washer | 1 |
| 13 |  | .312-18 Nyloc Nut | 5/16-18 Nyloc Nut | 16 |
| 14 |  | 91306A281 | .25-20 x 1.75 BHCS | 1 |
| 15 |  | 90126A029 | .25 Flat Washer- SAE | 2 |
| 16 |  | .25-20 Nylock | 1/4-20 NYLOC NUT | 1 |
| 17 |  | 9283k13 | 7/8 Tube Cap | 1 |
| 18 |  | 9283K15 | 1 1/4" Tube Cap | 2 |
| 19 |  | 11-03013 | bushing | 2 |

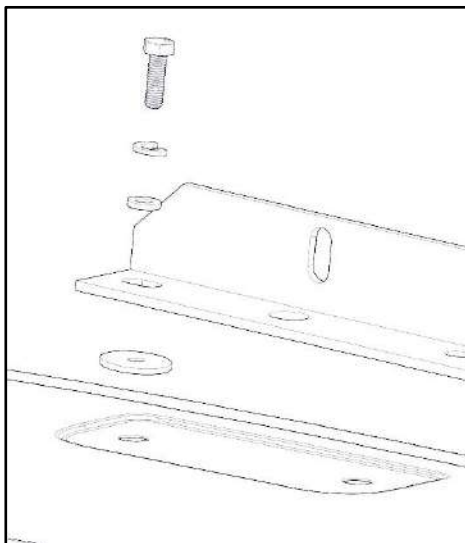
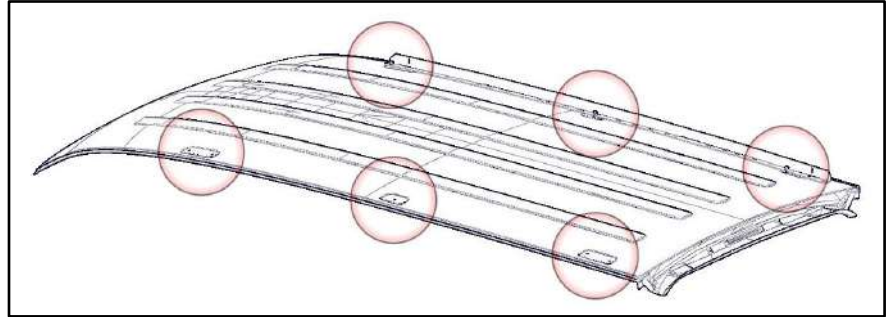
Installation Hardware

| ITEM NO. | TO SCALE | PART NUMBER | DESCRIPTION | QTY. |
|----------|---|----------------------|----------------------------|------|
| 20 |  | 90854A135 | M6 x 20mm Hex Bolt | 6 |
| 21 |  | 91202A234 | M6 Lock Washer | 6 |
| 22 |  | 91166A250 | M6 Flat Washer | 6 |
| 23 |  | 90854A167 | M8 x 25mm Hex Bolt | 4 |
| 24 |  | 91263A844 | M8 x 20mm countersink bolt | 4 |
| 25 |  | M8 Split Lock Washer | M8 Lock Washer | 4 |
| 26 |  | M8 Flat Washer | M8 Flat Washer | 4 |
| 27 |  | 92497A400 | M8 Hex Nut | 4 |
| 28 |  | 91100A160 | M8 Fender Washer | 4 |
| 29 |  | Rubber Washer | | 6 |
| 30 |  | E6000 | | 1 |

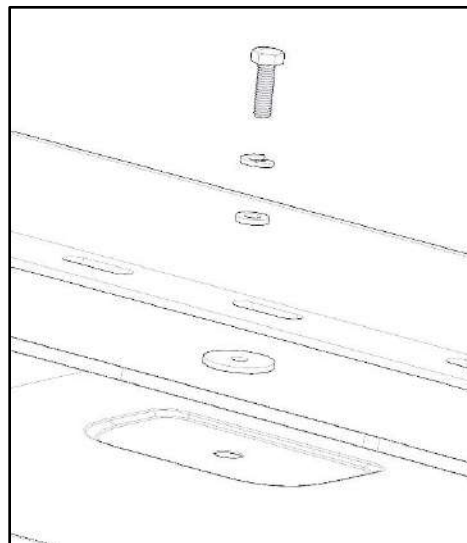
DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF

Promaster City Installation

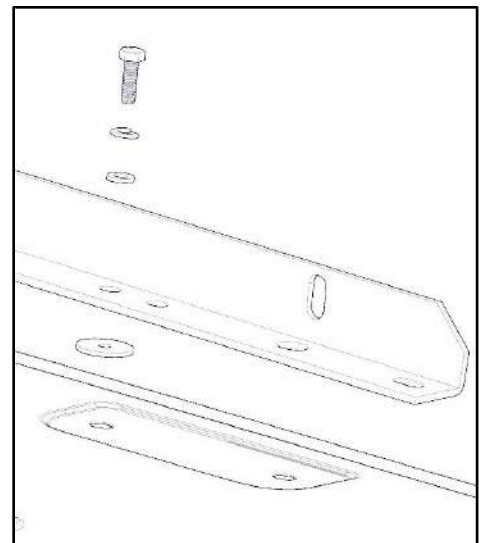
- Locate 6 mounting locations shown on roof of van.
- Install “Top Rail” as shown using M6x20mm bolts with lock washers and flat washers.
- Be sure to put rubber washer between the “Top Rail” and the roof to ensure sealing.
- Place E6000 on and around threads to seal roof. (Passenger side shown)



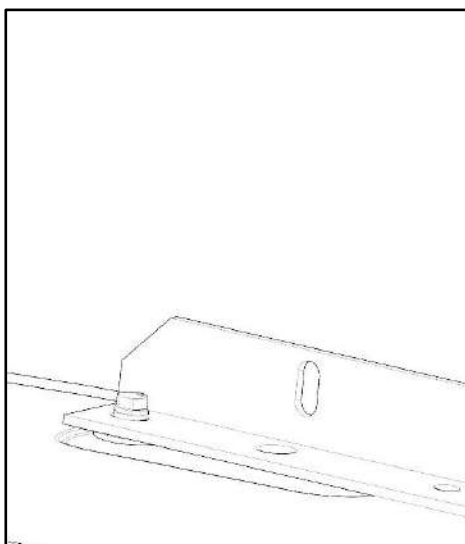
Front EXP



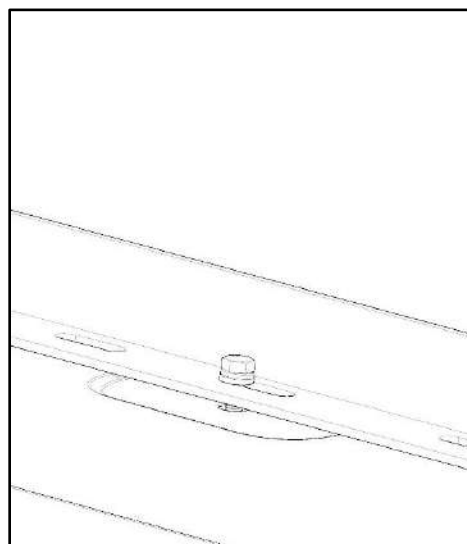
Mid EXP



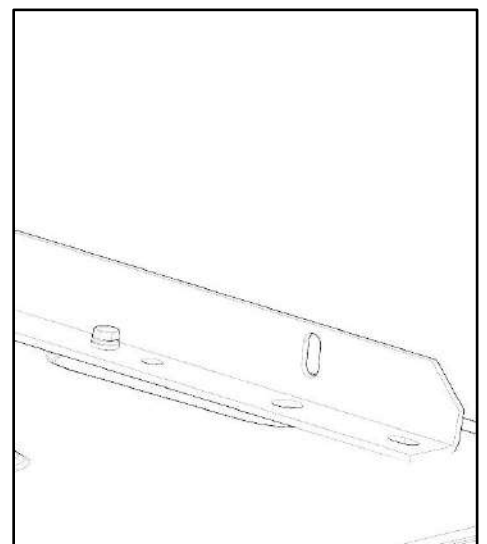
Rear EXP



Front Tighten



Mid Tighten

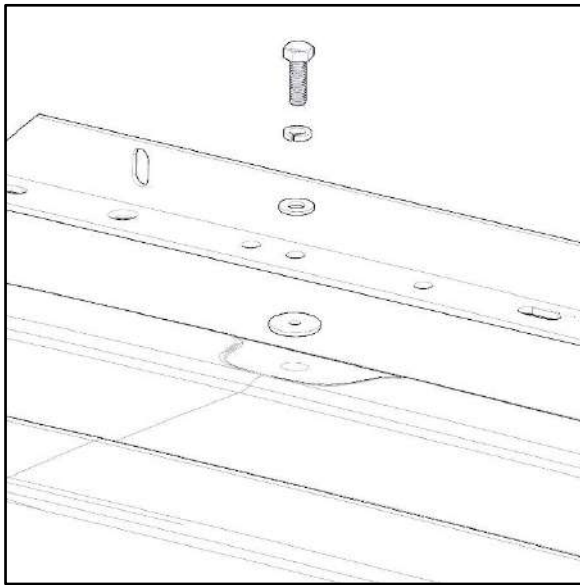
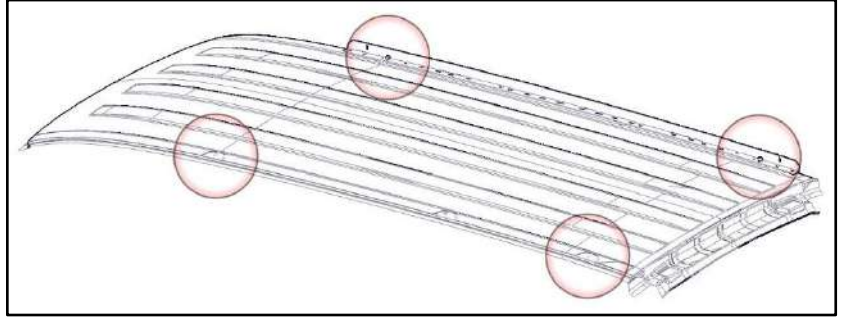


Rear Tighten

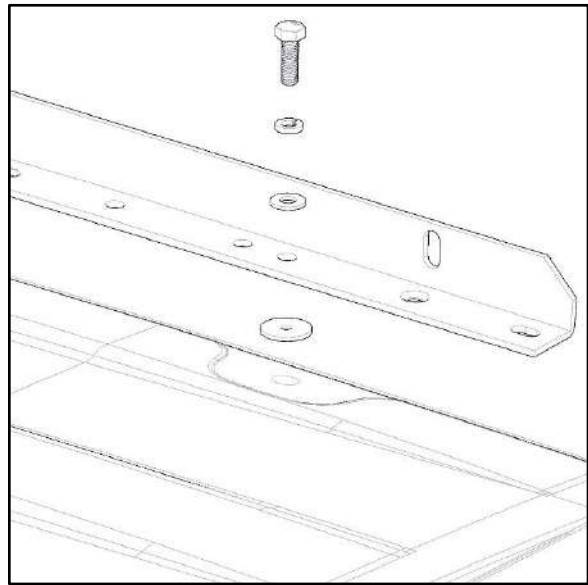
DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF

NV200/City Express Installation

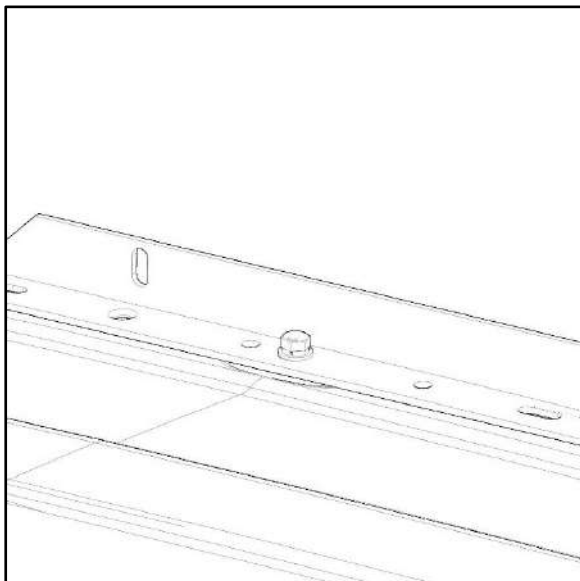
- Locate 4 mounting locations shown on roof of van.
- Install “Top Rail” as shown using M8x25mm bolts with lock washers and flat washers.
- Mount rail so there is about 1” from the rear door opening.
- Be sure to put rubber washer between the “Top Rail” and the roof to ensure sealing.
- Place E6000 on and around threads to seal roof. (Passenger side shown)



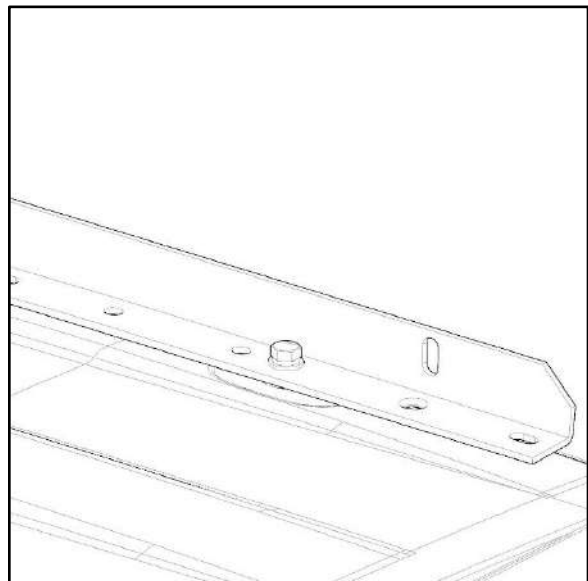
Front EXP



Rear EXP



Front Tighten

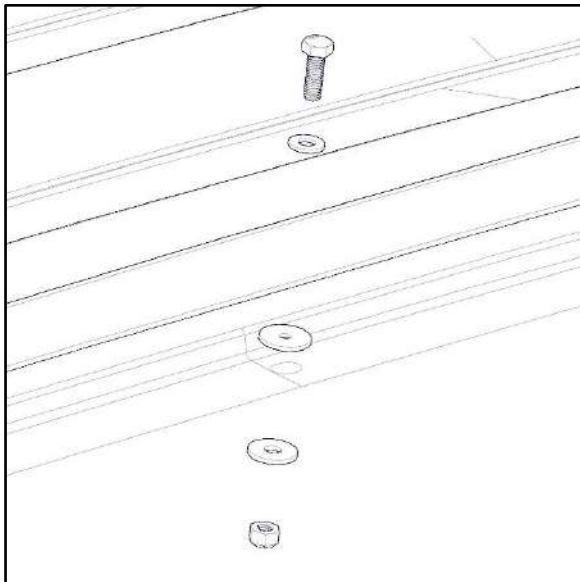
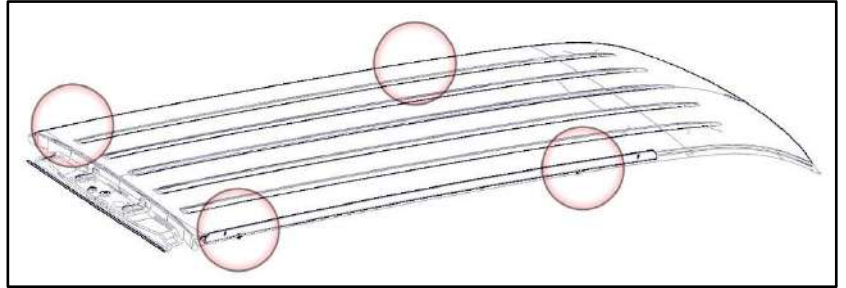


Rear Tighten

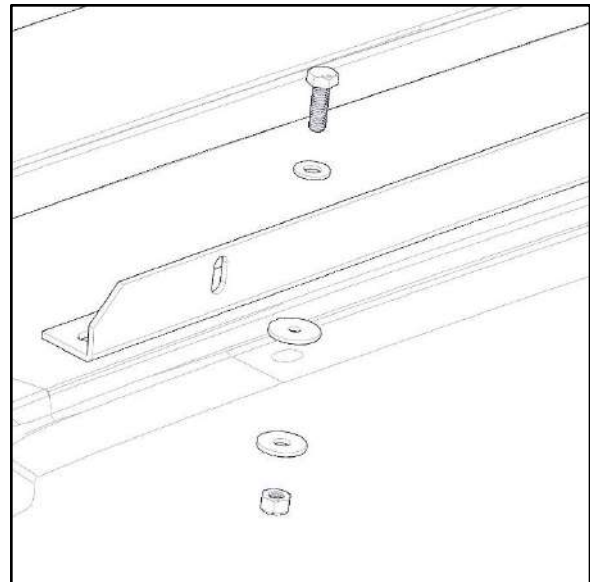
DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF

Transit Connect Installation

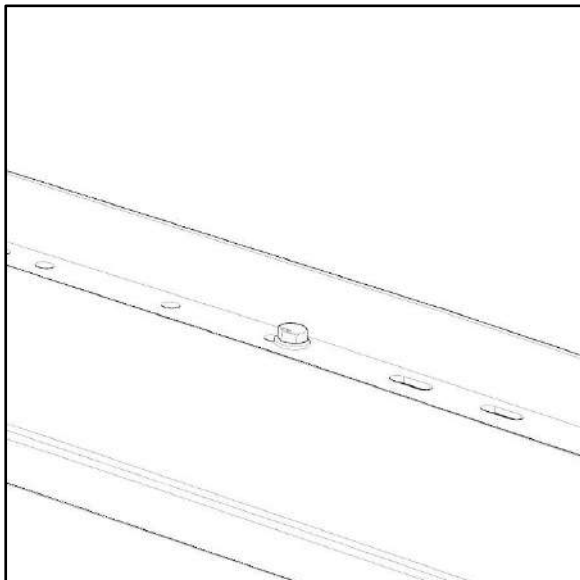
- Locate 4 mounting locations shown on roof of van.
- Be sure to put rubber washer between the “Top Rail” and the roof to ensure sealing.
- Mount rail so there is about 1” from the rear door opening.
- Install “Top Rail” as shown using M8x25mm bolts and flat washers on the outside. Use the fender washer and nylock nut on the inside of the van.
- Place E6000 on and around threads to seal roof. (Passenger side shown)



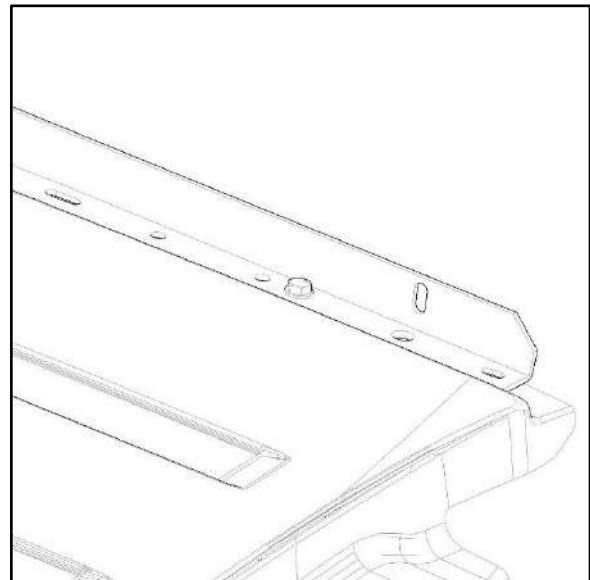
Front EXP



Rear EXP



Front Tighten

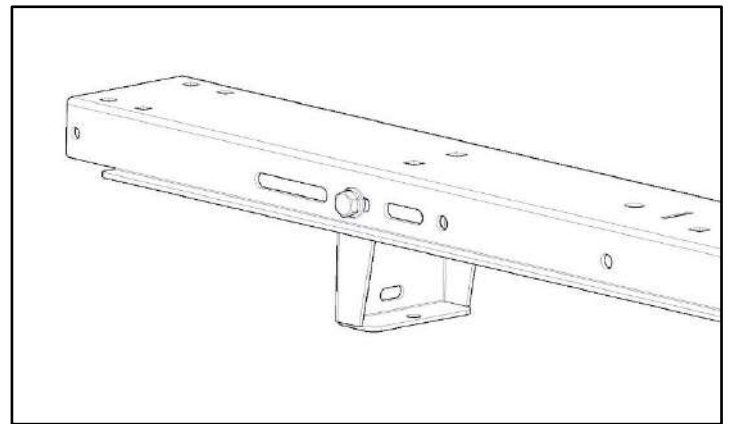
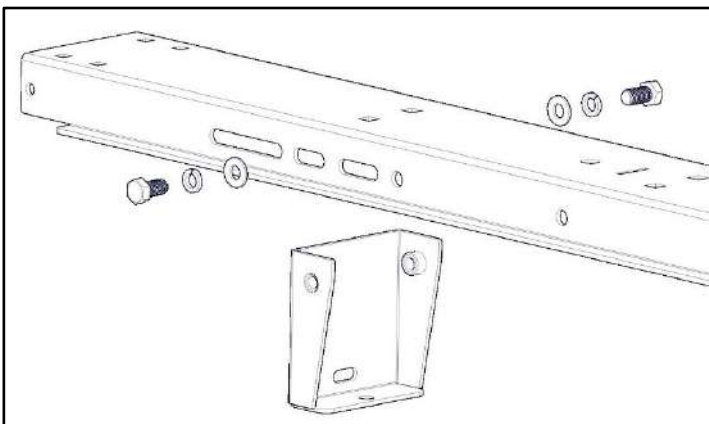
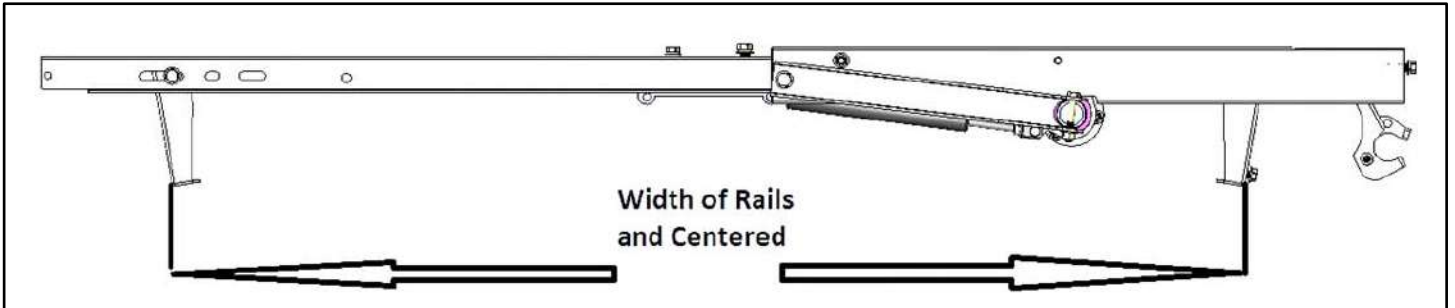


Rear Tighten

Assembly Instructions

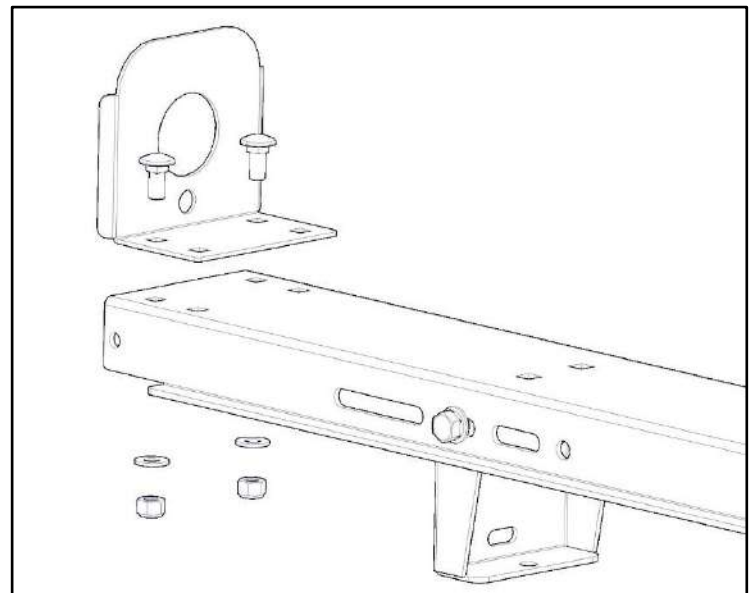
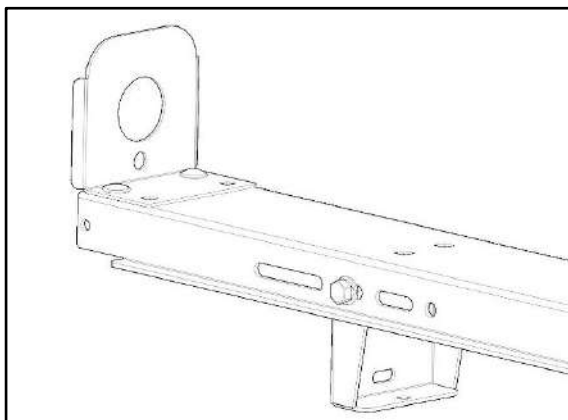
Step 1 – Assembly of Foot

- Measure width between previously installed rails.
- On the cross bows, use the slots that correspond to the measured distance between rails.
- Bolt feet to bows as shown, DO NOT TIGHTEN at this point.
- Feet can be installed as shown or reverse depending on how you mounted the rail.
- Use a 3/8" x .75" hex head bolt, 3/8" lock washers and a 3/8" flat washer to bolt foot to crossmember.



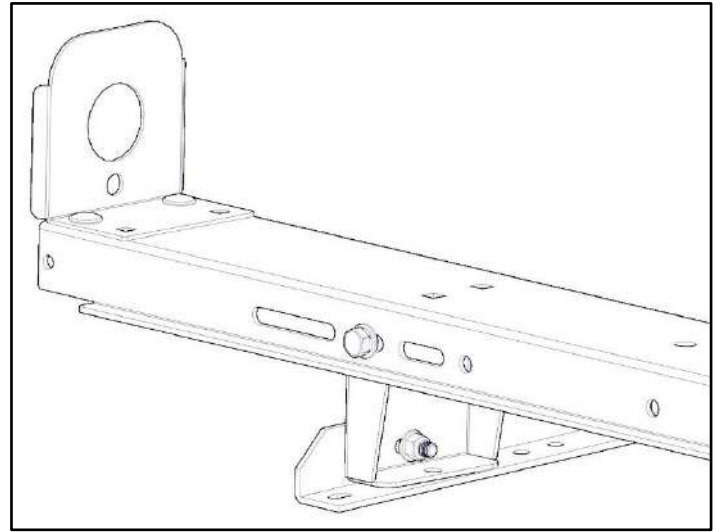
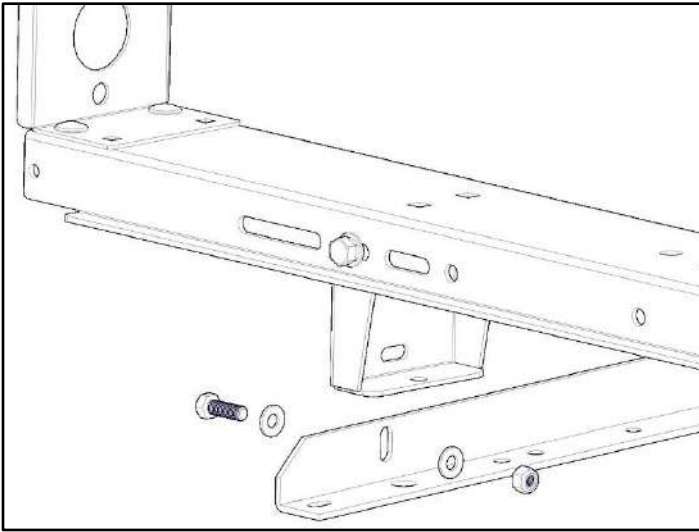
Step 2 – Ladder Stops

- Bolt ladder hooks to one end of each bow.
- Use a 5/16" carriage bolt, 5/16" washers and a 5/16" nylock.
- TIGHTEN



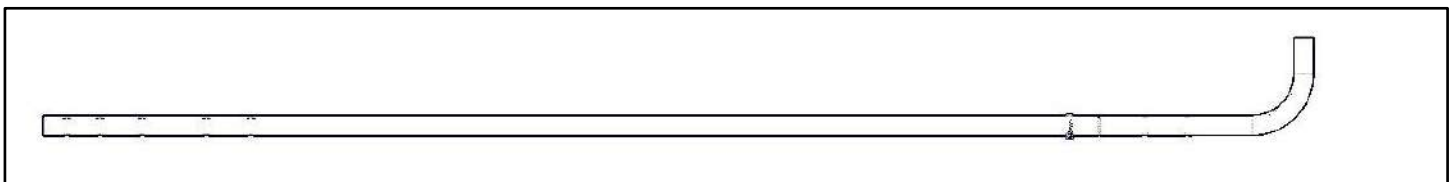
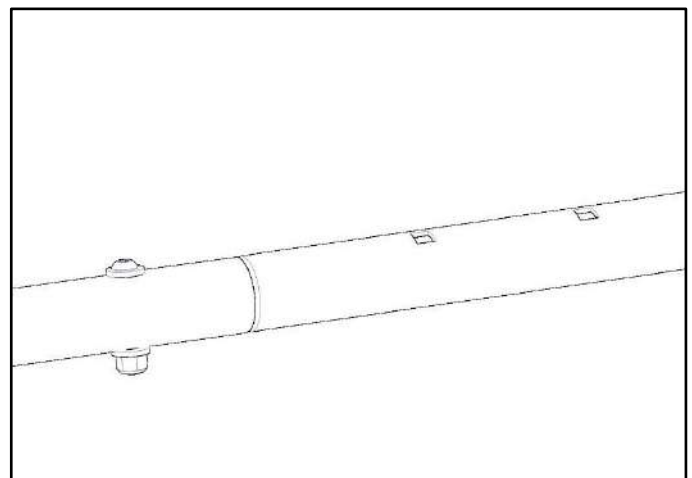
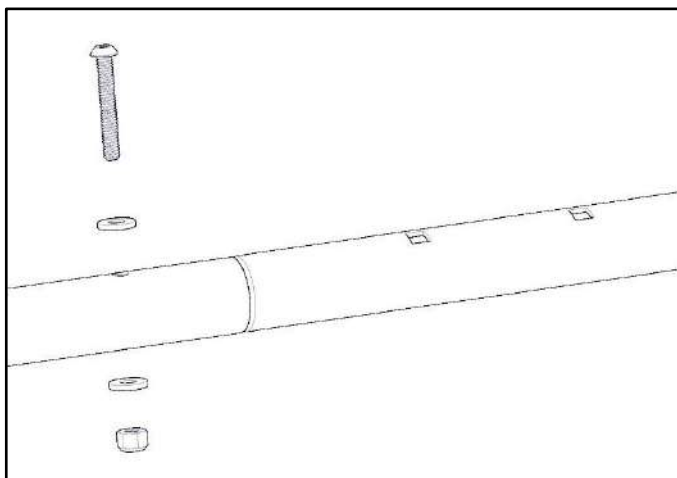
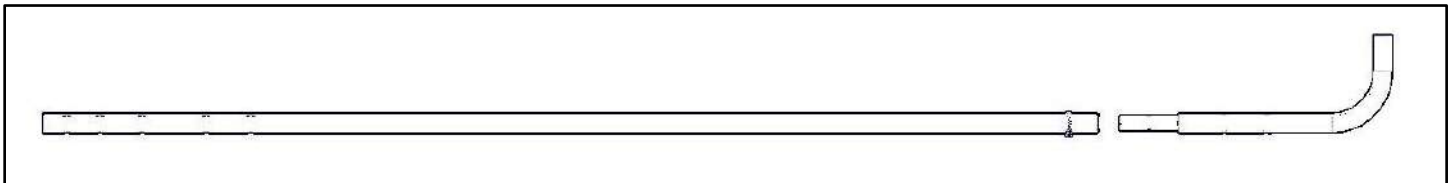
Step 3 – Mount to Rails

- Place both bows on top of installed rails.
- Have the ladder hooks on the driver side of vehicle.
- Snug Tighten, but allow movement



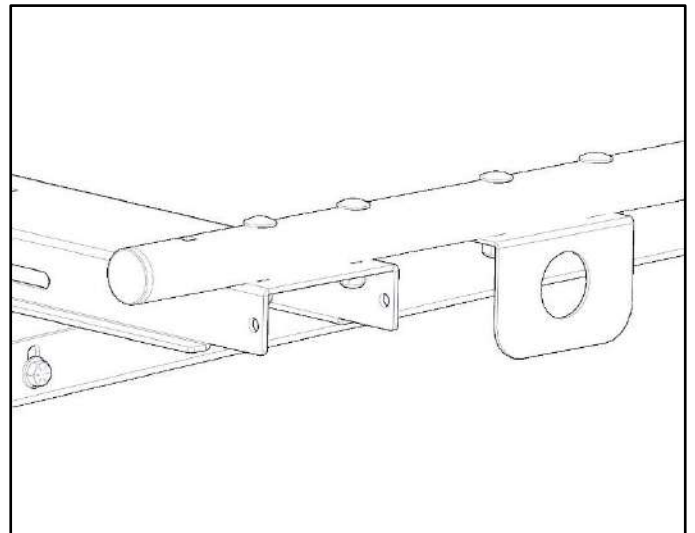
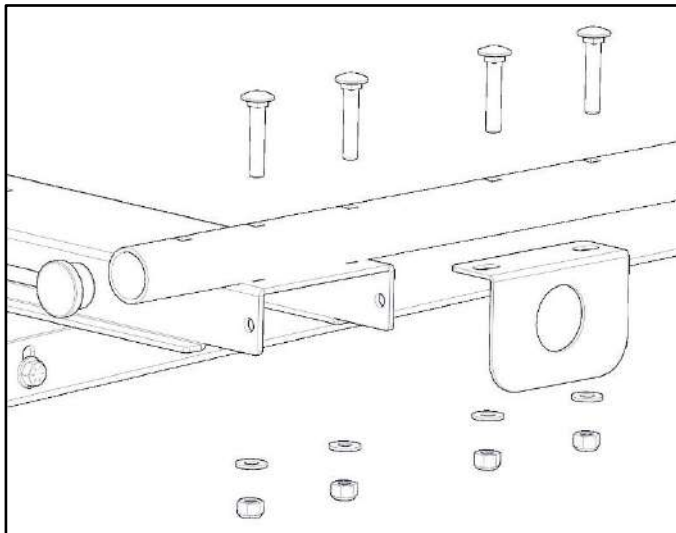
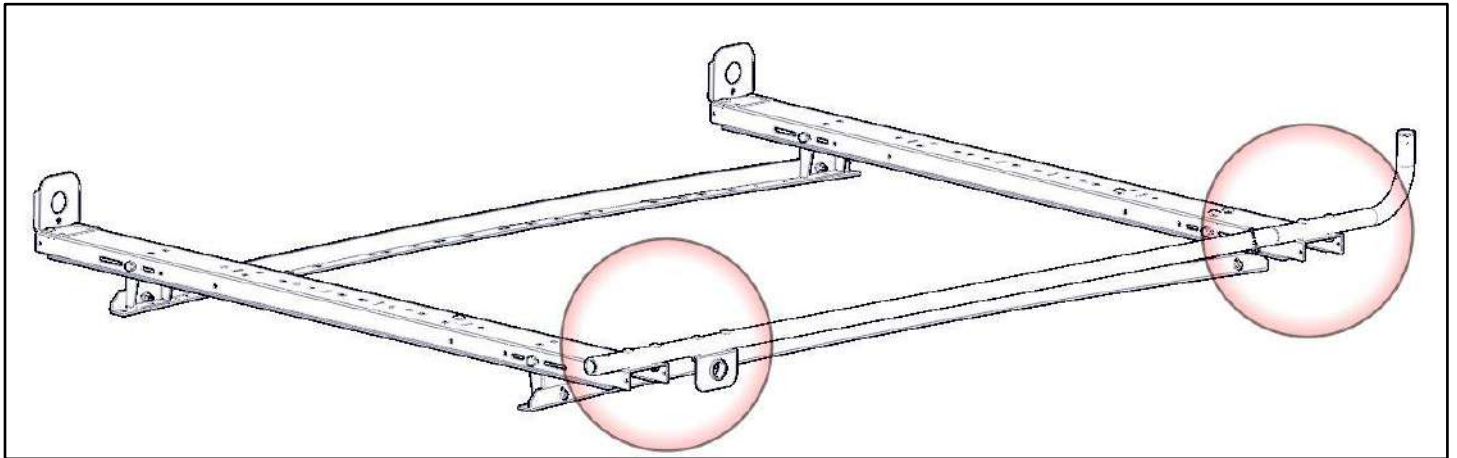
Step 4 – Assemble Side Tube

- Bolt side bar to side support bar using .25 x 1.5 button head, .25 washer and a .25 nylock.
- Place some E6000 in and around the connection.
- TIGHTEN



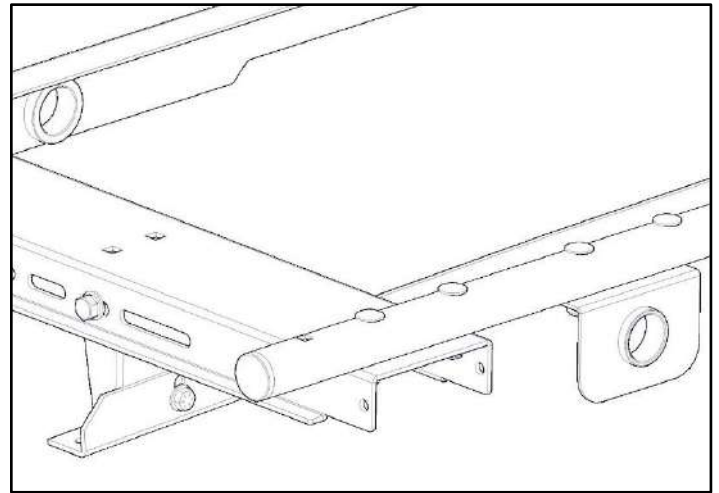
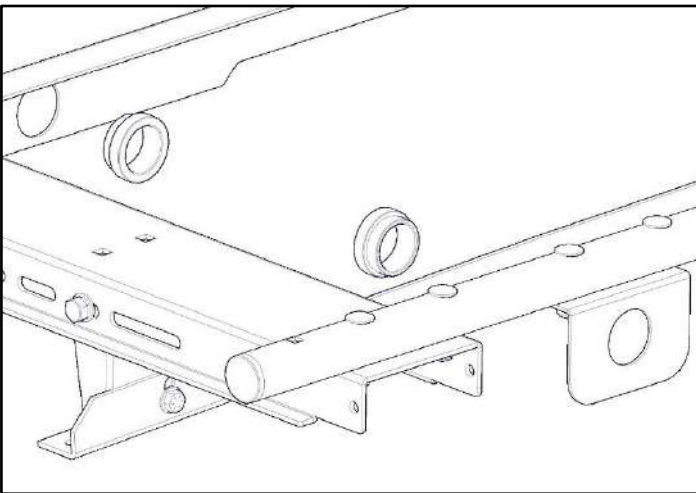
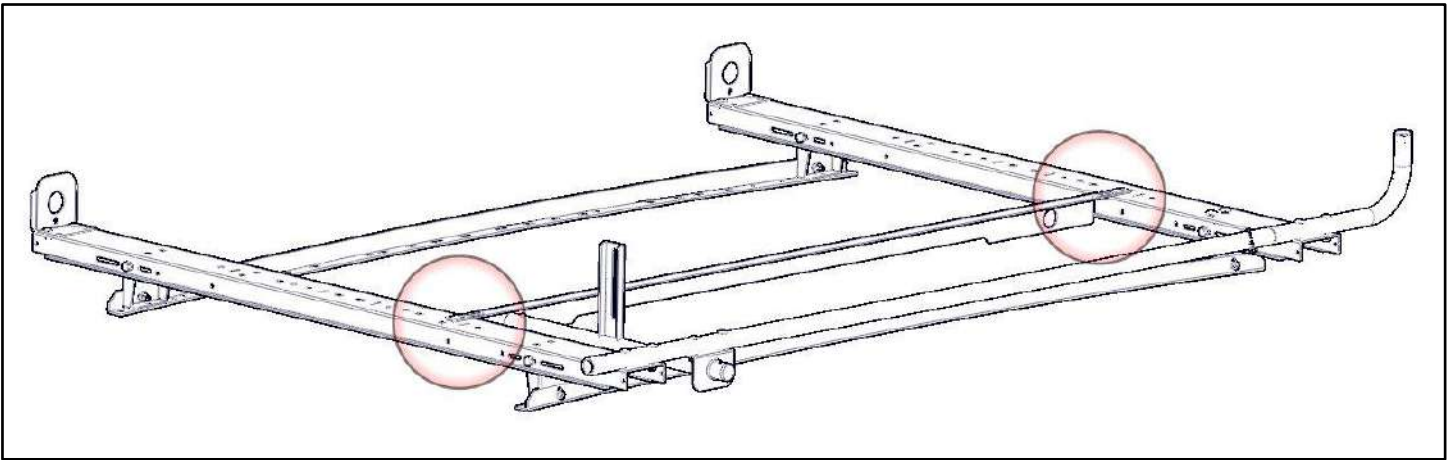
Step 5 – Mount Side Tube

- Place side tube on top of installed bows.
- Have the bend towards the front of the vehicle as shown.
- Mount rotation bar plate to tube as shown.
- Leave one square slot open at the rear.
- Bolt together using 5/16 x 1.75 carriage bolt, a 5/16 flat washer and a 5/16 nylock.
- Insert tube caps in both ends of the tube.
- Snug Tighten, but allow movement

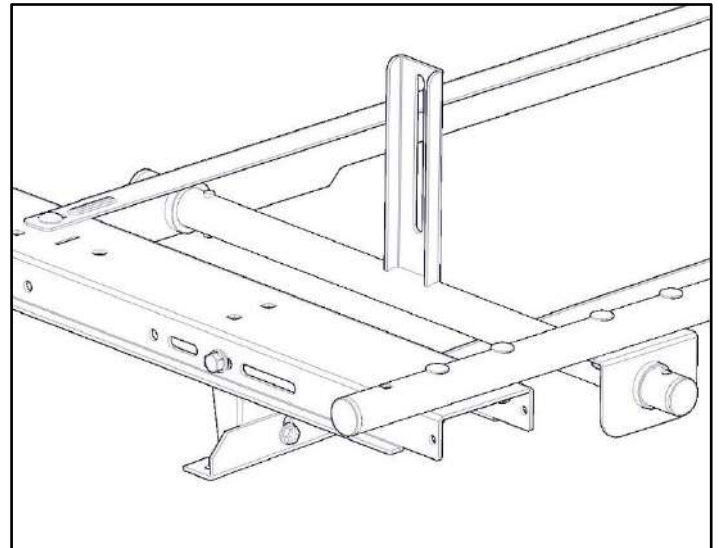
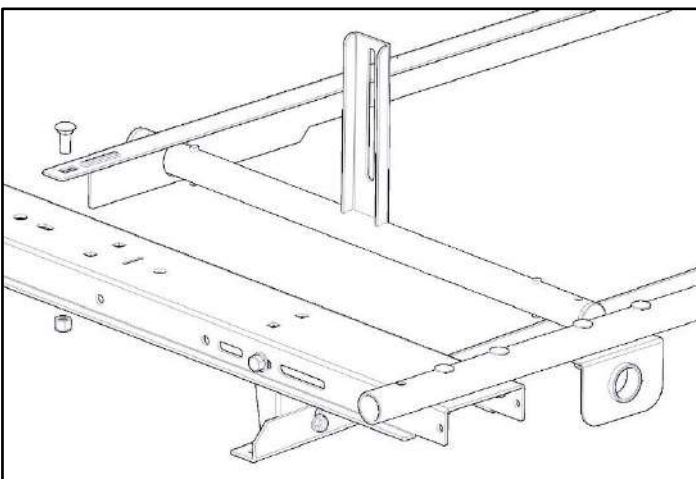


Step 6 – Clamp Tube

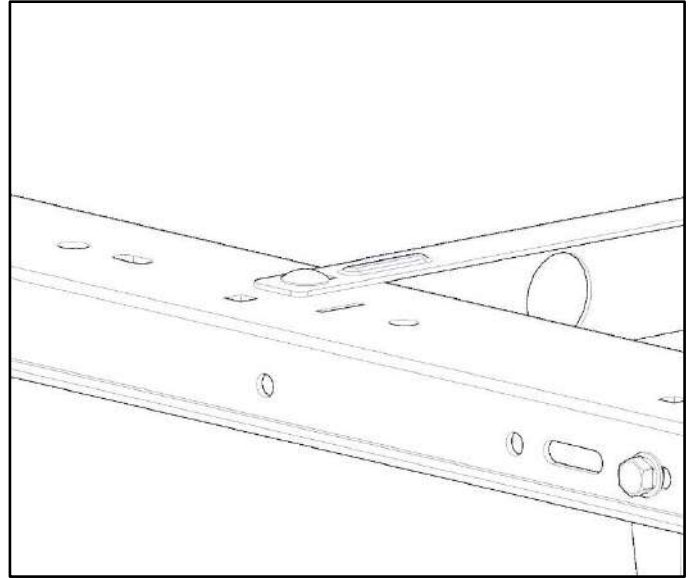
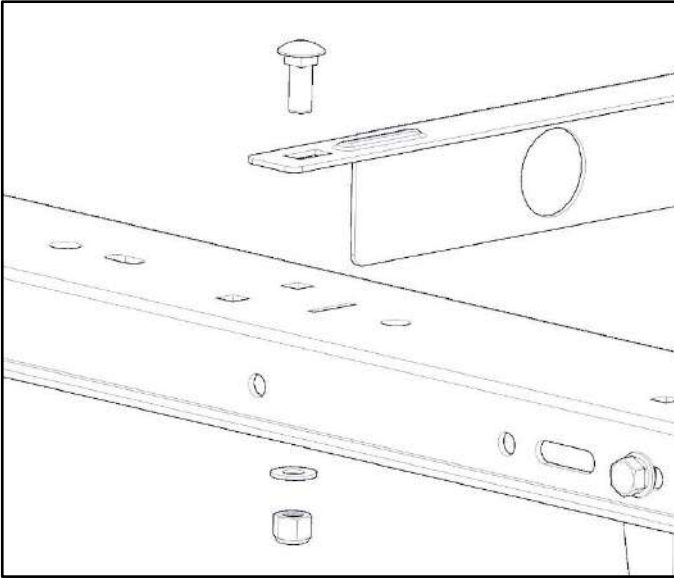
- Place clamp and lock L bracket on top of installed bows.
- Insert plastic bushings into the clamp and lock L bracket and the rotation bar plate installed in Step 5, with flange towards each other and to the inside as shown.



- Insert clamp tube into both plastic bushings.

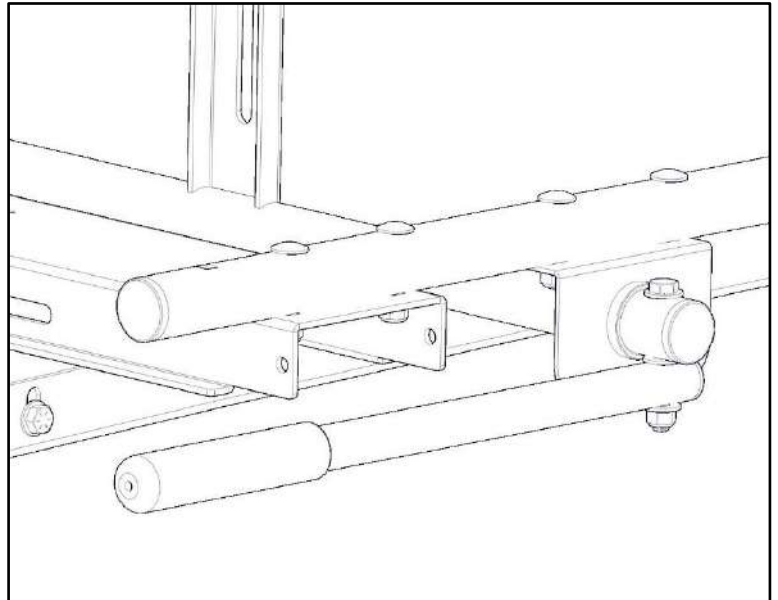
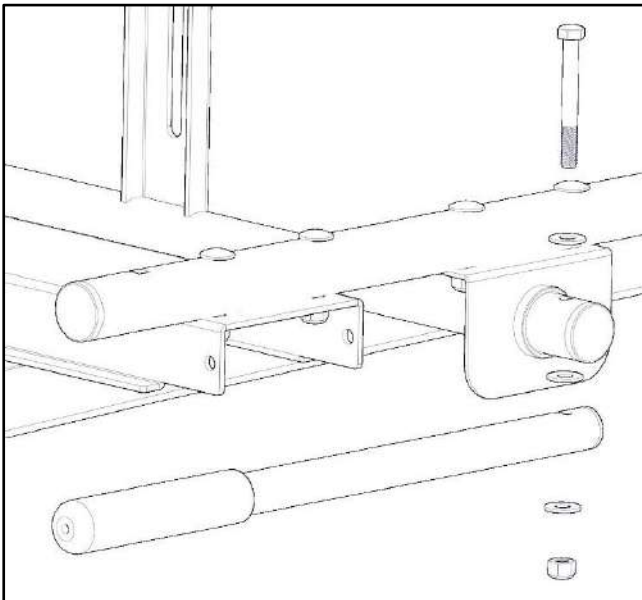


- Bolt clamp and lock L bracket to bows using 3/8 x 1 carriage bolt, 3/8 flat washer and a 3/8 nylock as shown. (This view shown without clamp tube)
- TIGHTEN



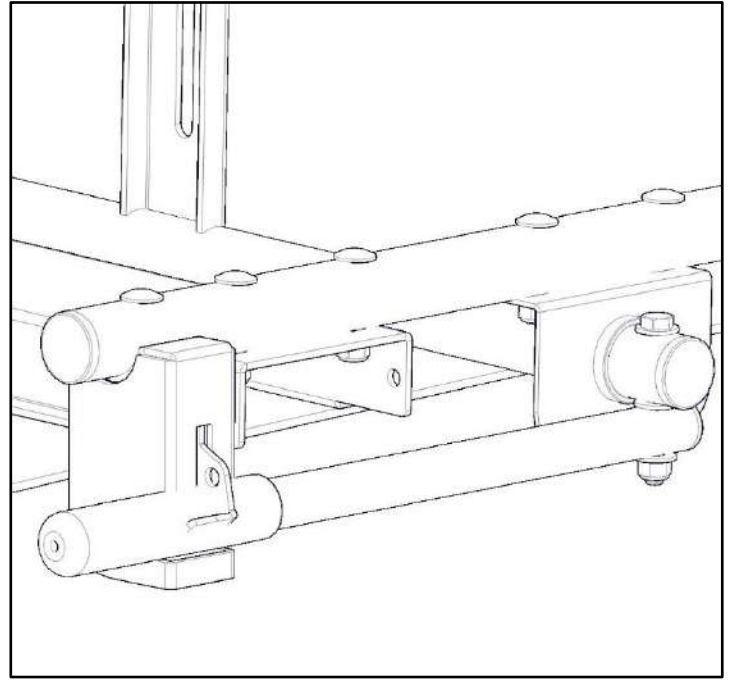
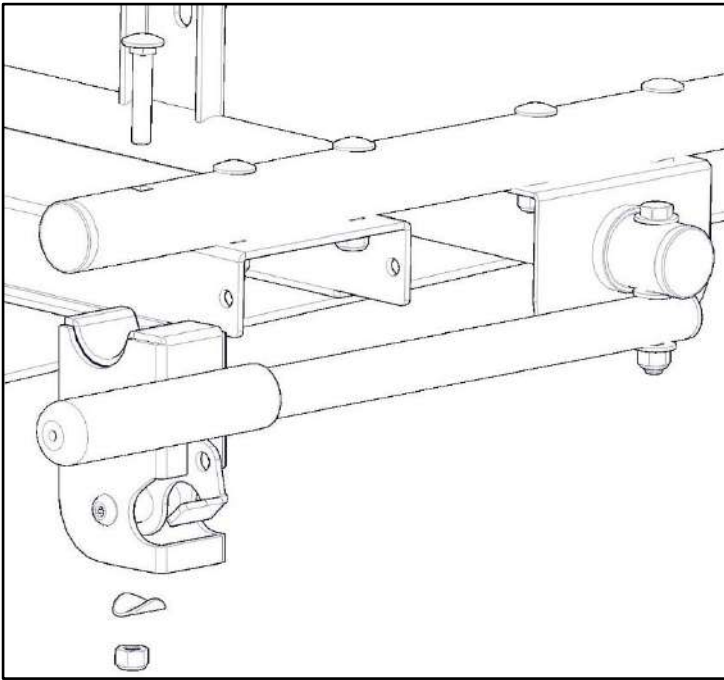
Step 7 – Handle

- Bolt handle to clamp tube using a 5/16 x 2.75 hex head, two 5/16" flat washers, 5/16 nylon washer and 5/16 a nylock. The nylon washer goes in between the clamp tube and handle.
- TIGHTEN



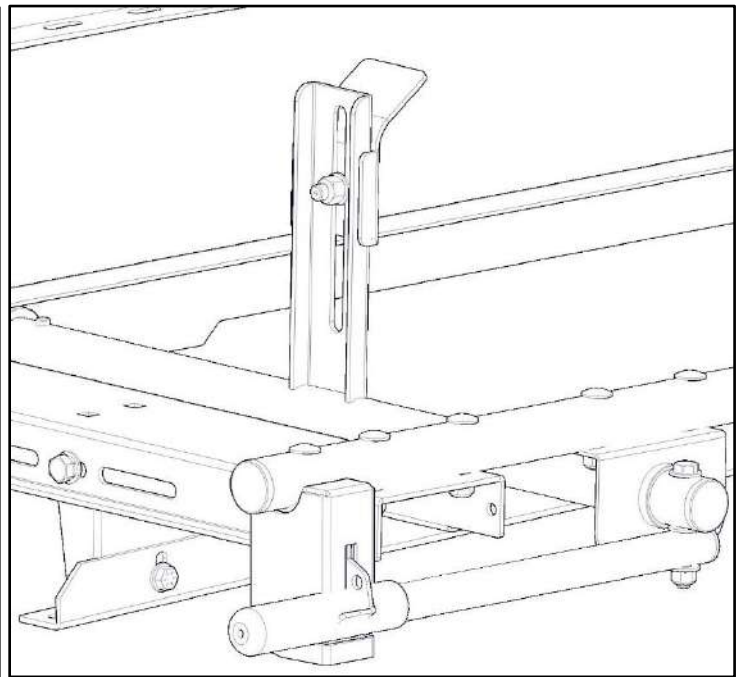
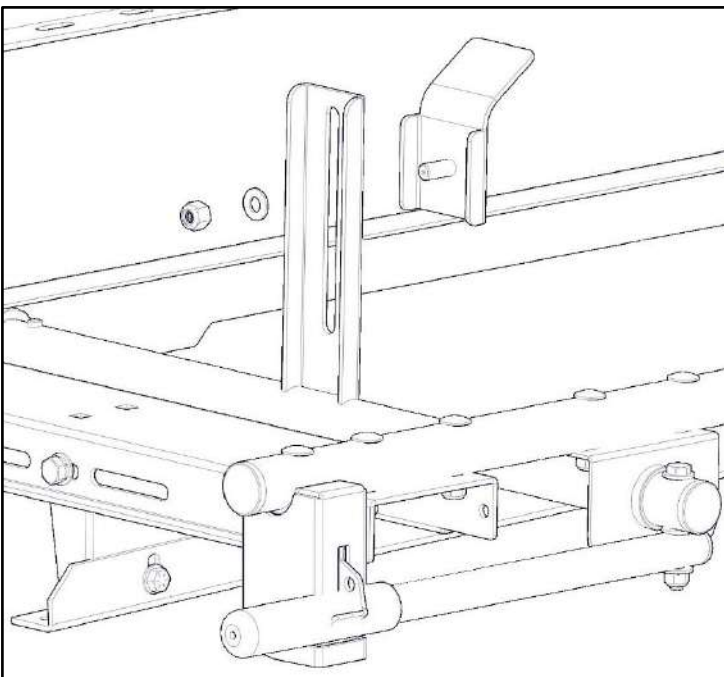
Step 8 – Latch Assembly

- Bolt latch to the rear of the mount tube that was installed in Step 5 using 5/16 x 1.75 carriage bolt, 5/16 curved washer and a 5/16 nylock.
- TIGHTEN



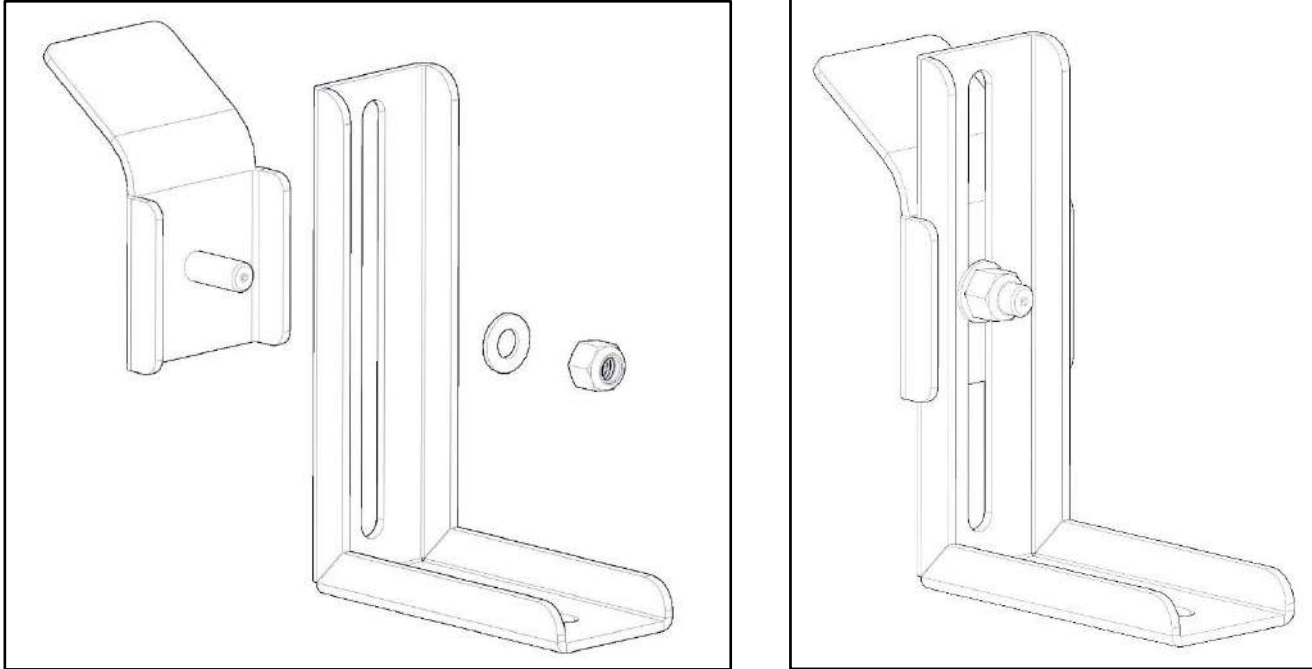
Step 9 – Ladder Hook

- Bolt ladder hook to the clamp tube in the orientation shown using a 3/8 flat washer and a 3/8 nylock.
- Snug Tighten, but allow movement.
- Final location will be determined once ladder is placed on rack.



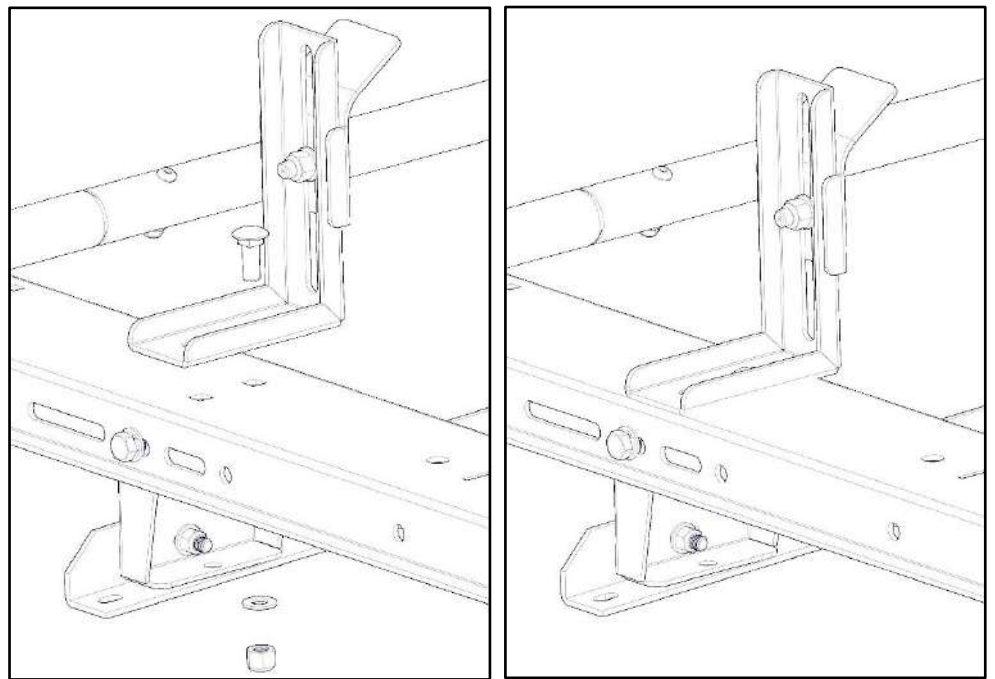
Step 10 – Ladder Hook to Bracket

- Bolt ladder hook to the ladder hook bracket in the orientation shown using a 3/8 flat washer and a 3/8 nylock.
- Snug Tighten, but allow movement.
- Final location will be determined once ladder is placed on rack.



Step 11 – Ladder Hook Bracket to Bow

- Bolt ladder hook bracket to the bow in the orientation shown using a 3/8 x 1 carriage bolt, a 3/8 flat washer and a 3/8 nylock. Be sure the bracket is square to the bow.
- TIGHTEN



GO BACK AND ENSURE ALL HARDWARE IS TIGHT
Your installation is now complete.

KEEP THIS GUIDE WITH VEHICLE AT ALL TIMES

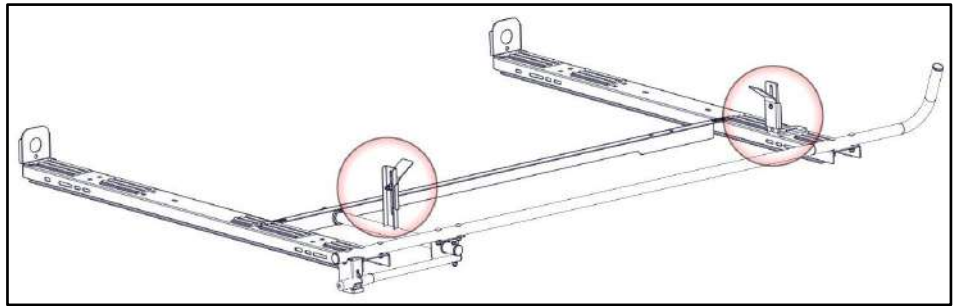
* PLEASE READ INSTALLATION INSTRUCTIONS FOR FURTHER ASSEMBLY AND USE INFORMATION. *

**** DO NOT install ladder until ladder hook orientation and position are adjusted. ****

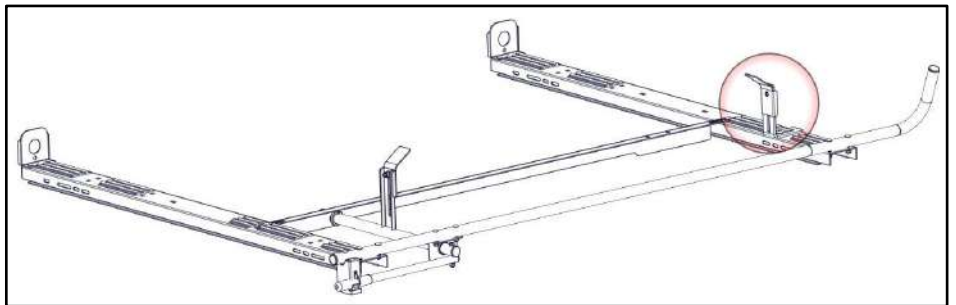
**** ALWAYS ENSURE LADDER IS SECURED TO TOP OF RACK BEFORE MOVING VEHICLE. ****

Tools Needed 9/16" Wrench and Socket

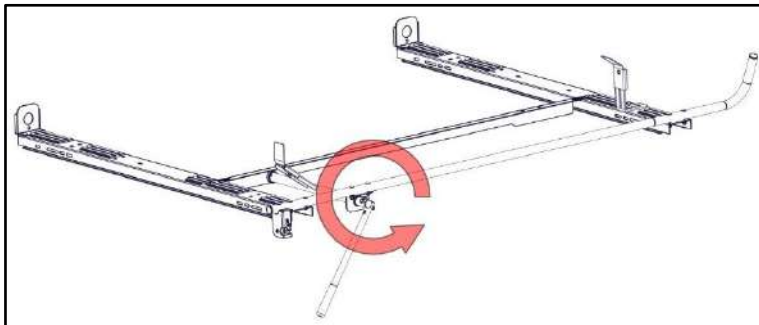
Step 1 - Loosen bolt on front and rear ladder stops. Adjust ladder stop up. Tighten nuts.



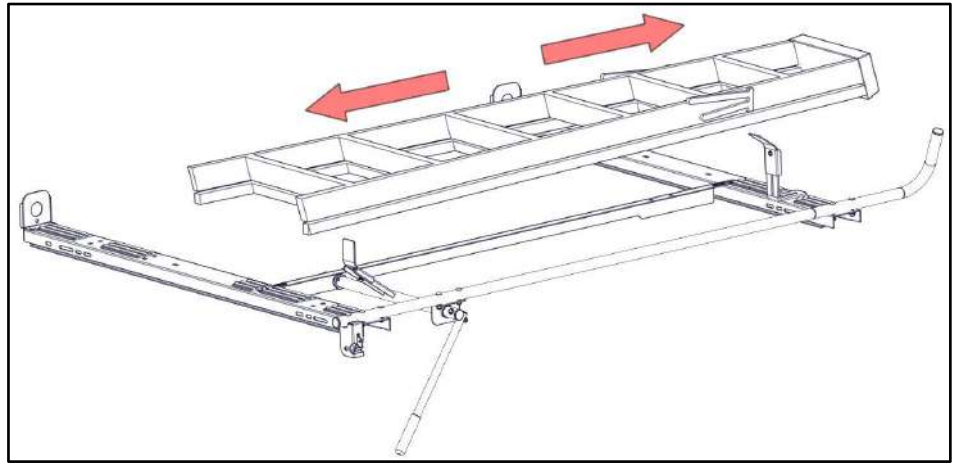
Step 2 - Loosen the bolt that secures the front ladder stop to the cross member.



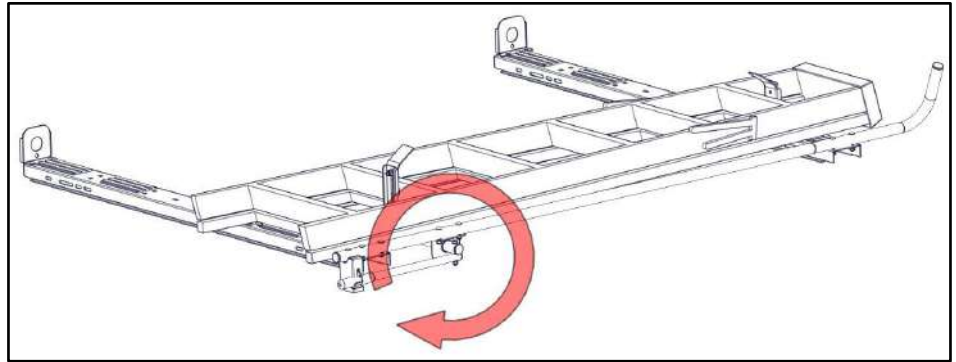
Step 3 - Lower the clamping mechanism.



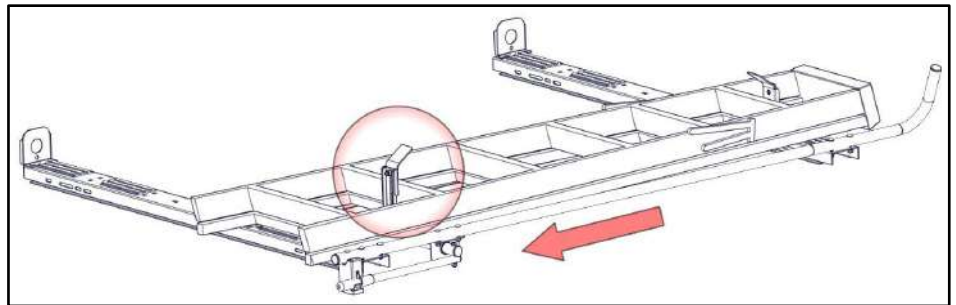
Step 4 - Load ladder onto rack and adjust ladder about where you want ladder to sit on rack.



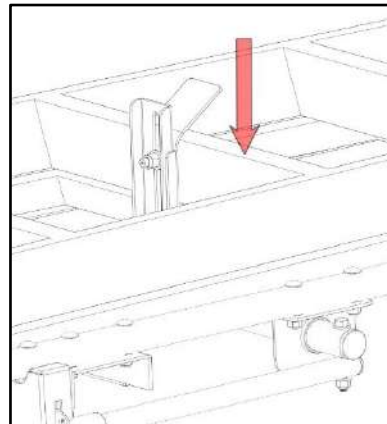
Step 5 - Raise clamping mechanism and stow handle into the rack.



Step 6 - Push ladder to rear so rung sits flush against clamping mechanism.

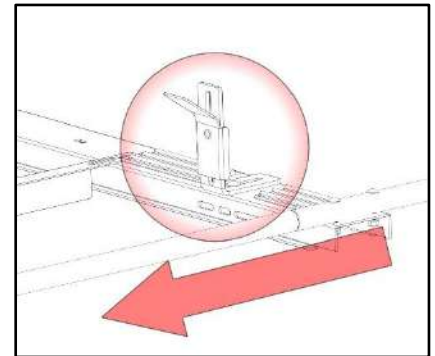
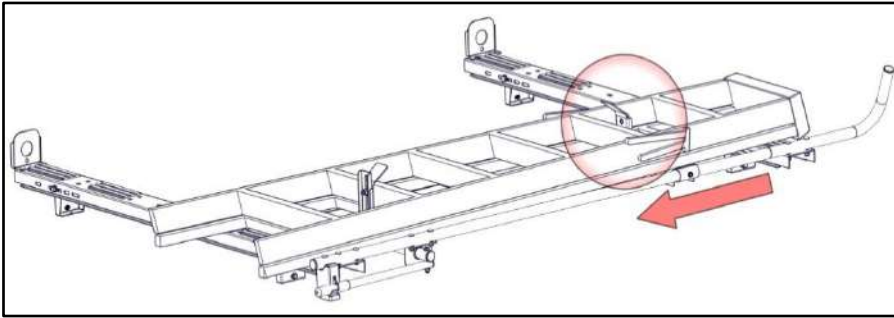


Step 7 - Loosen bolt on angled pad and adjust downward until firmly against top of ladder. Tighten nut.

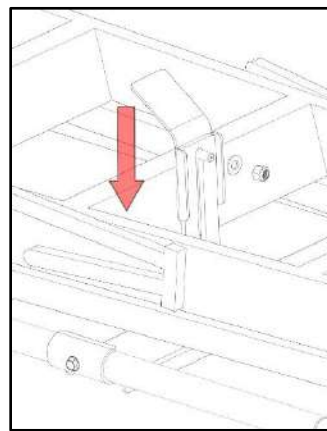


Step 8 - Adjust front ladder stop tight against rung and tighten bolt and nut to cross member.

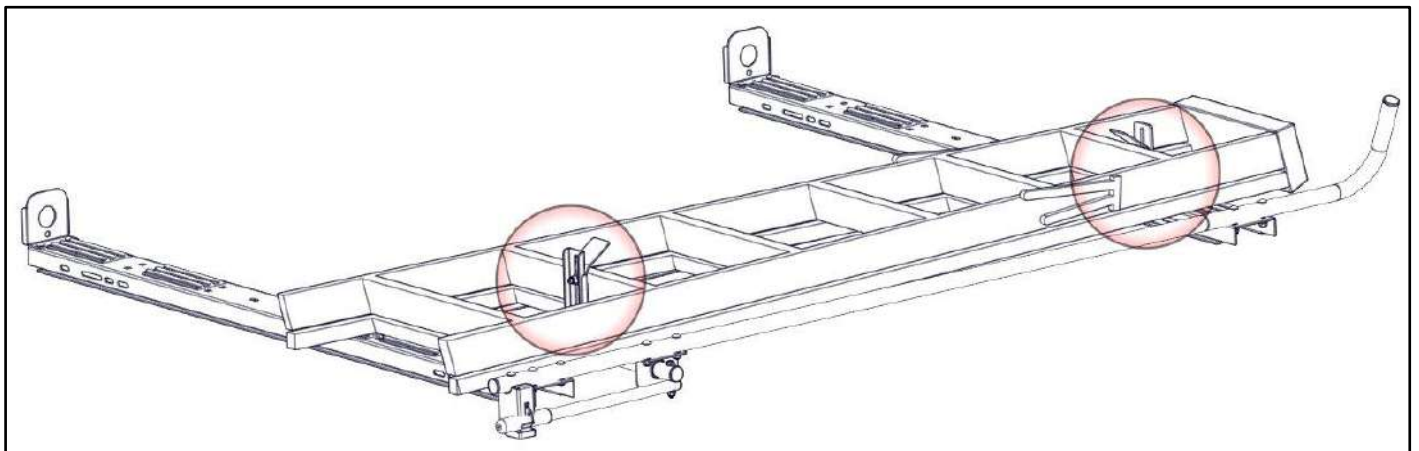
**** BE SURE THE LADDER HOOK IS FIRMLY AGAINST TOP LADDER STEP OR RUNG. ****



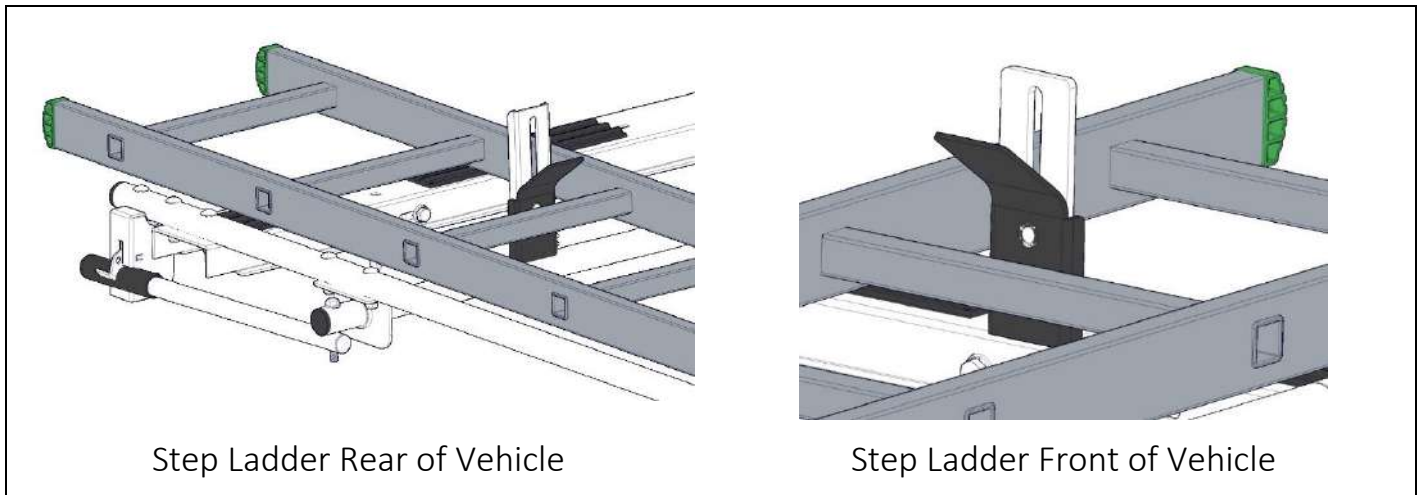
Step 9 - Loosen nut on front ladder stop angled pad. Adjust pad downward and firmly against ladder. Tighten nut.



**** BE SURE TO HAVE FIRM CONTACT ON BOTH LOCATIONS SHOWN BELOW ****



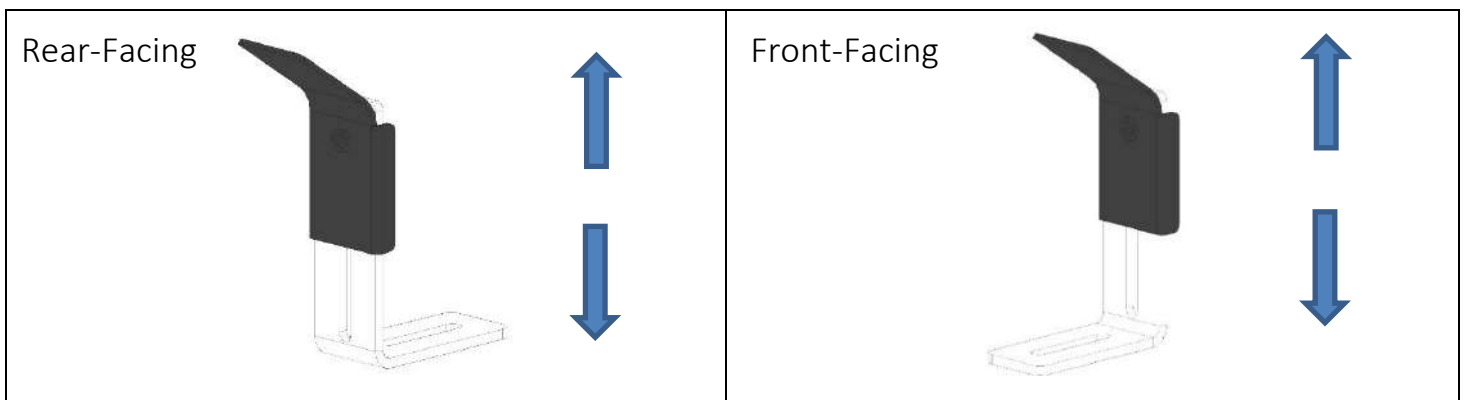
EXAMPLES OF LADDER CLAMPS FIRMLY AGAINST LADDER RUNGS



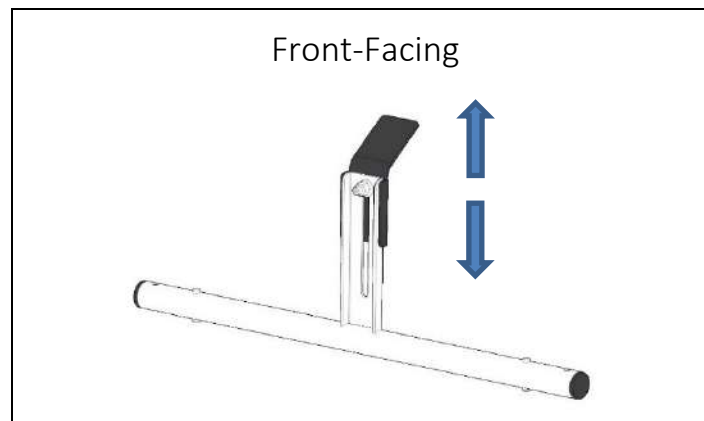
* Ladder hook must be positioned so hooks clamp ladder tightly into place. *

Front Clamp-Different Clamp Orientations

Orientation may differ depending on ladder size and type.



Rear Clamp-Different Clamp Orientation



**** ALWAYS ENSURE LADDER IS SECURED TO TOP OF RACK BEFORE MOVING VEHICLE. ****

* Securing ladder to rack with additional tie-down during transport is recommended. *

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