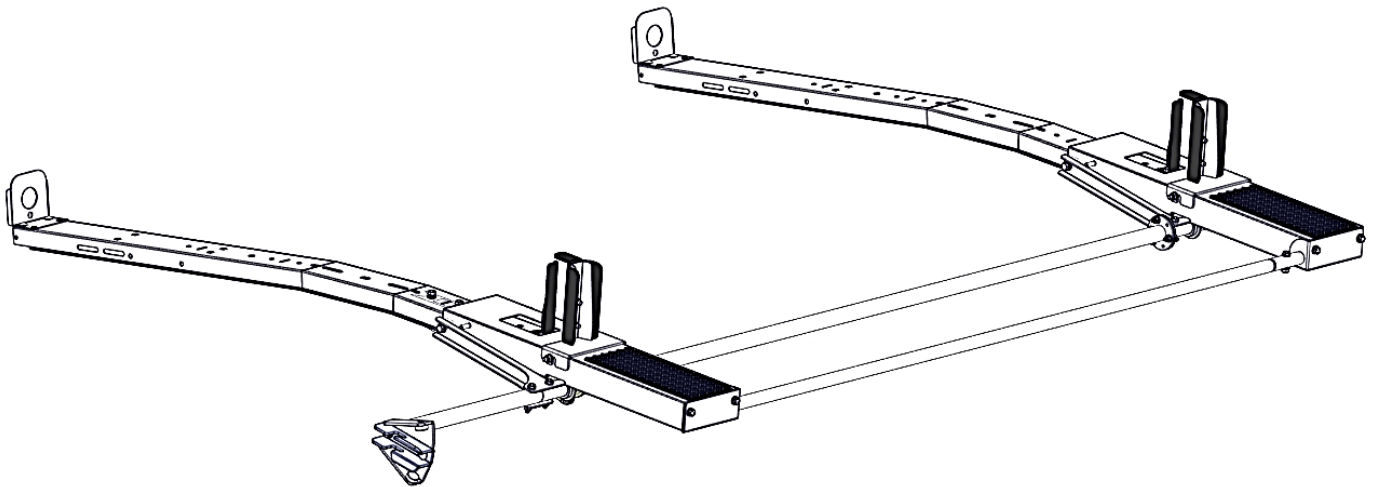


Holman

Instruction Guide 4097M



Available at Contractor's Solutions: www.Contractors-Solutions.net

Holman
Rancho Cordova, CA 95742
800-343-7486
InstallationSupport@Holman.com

***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

1/2" Socket and Wrench	7/16" Socket and Wrench
Phillips Driver	3/8" Socket and Wrench

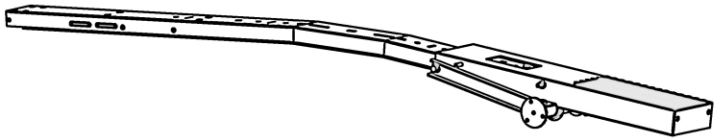
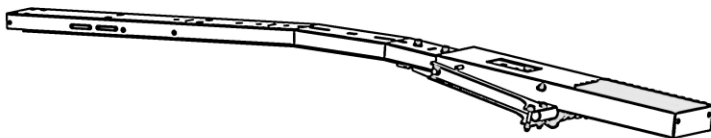



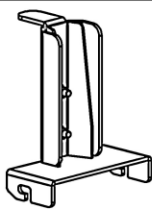
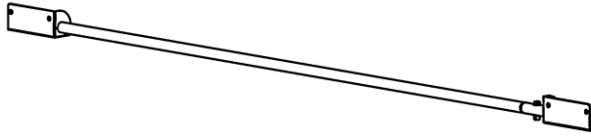

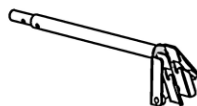
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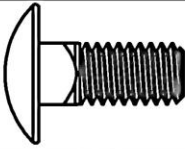
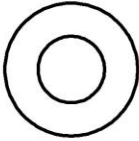

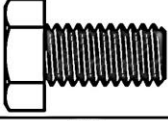
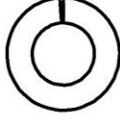
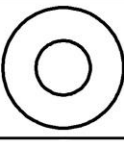

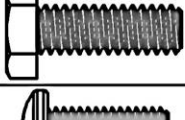



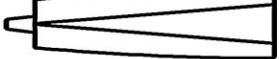
Before You Begin

- Read all instructions.
- Have your vehicle roof mounting installed prior to rack assembly.
- **DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF.**

Parts

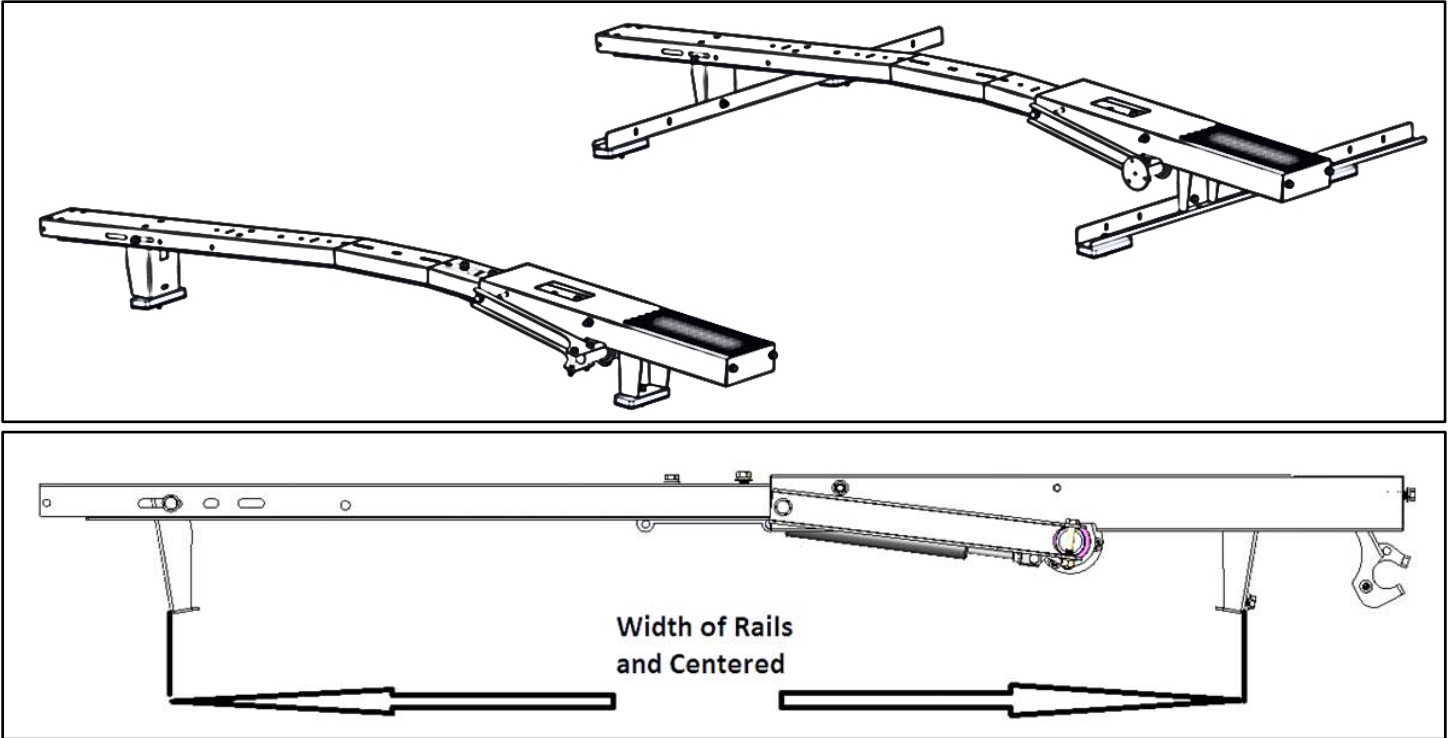
ITEM NO.		PART NUMBER	DESCRIPTION	QTY.
A		4097M-10	Front Bow ASM	1
B		4097M-20	Rear Bow ASM With Damper	1
C		40800-10-008	End Stop	2
D		40800-21	Long Torsion Mechanism	1
E		40900-30-004	Ladder Stop	2
F		40900-31	Ladder Hook Assembly	2
G		40953-831	Crosstube Assembly	1
H		40800-13	Operator Arm Assembly	1
J		40800-10	Handle Bar Assembly	1
		18-4097M	Hardware	1

Hardware

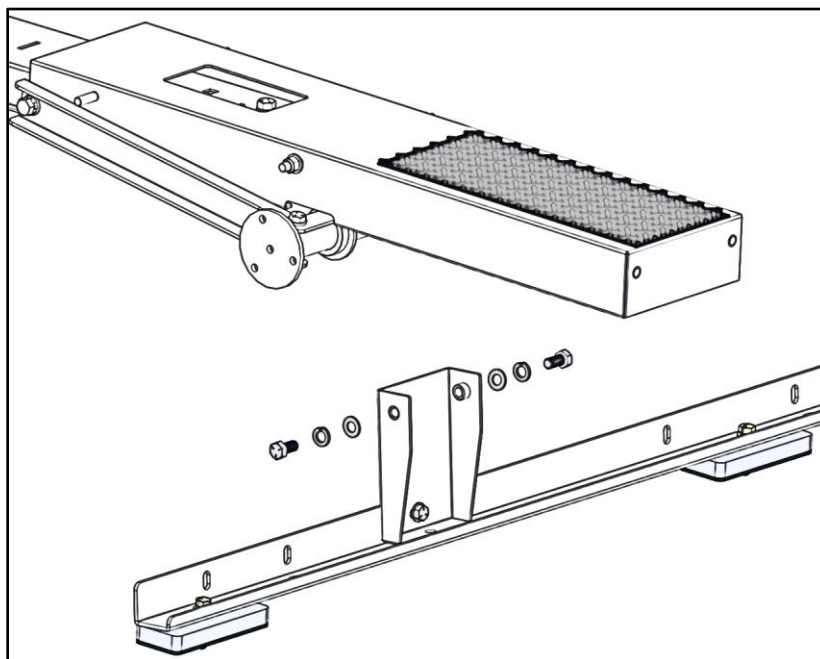
ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		90185A581	5/16" x 3/4" Carriage Bolt	4
2		90126A030	5/16" Flat Washer	8
3		95615A160	5/16" Nyloc	4
4		92865A580	5/16" x 5/8 Hex Head	4
5		91102A755	5/16" Lock Washer	4
6		90126A029	1/4" Flat Washer	12
7		95615A120	1/4" Nyloc	6
8		92865A542	1/4" x 7/8" Hex Head	6
9		90272A244	No10 x 5/8" Pan Head	4
10		90631A011	No10 Nyloc	4
11		1171A72	Handle Holder Clip	2
12			Sealant	1

Step 1 – Place Bows

- Place front bow on top of the installed feet from the mount kit.
- Place rear bow on top of the installed feet from the mount kit.
- Center both bows on the feet.



- Move the pans out of the way to access the slots in the bows.
- Use hardware from the mount kit to attach the bows to the feet.
- **DO NOT TIGHTEN at this point.**

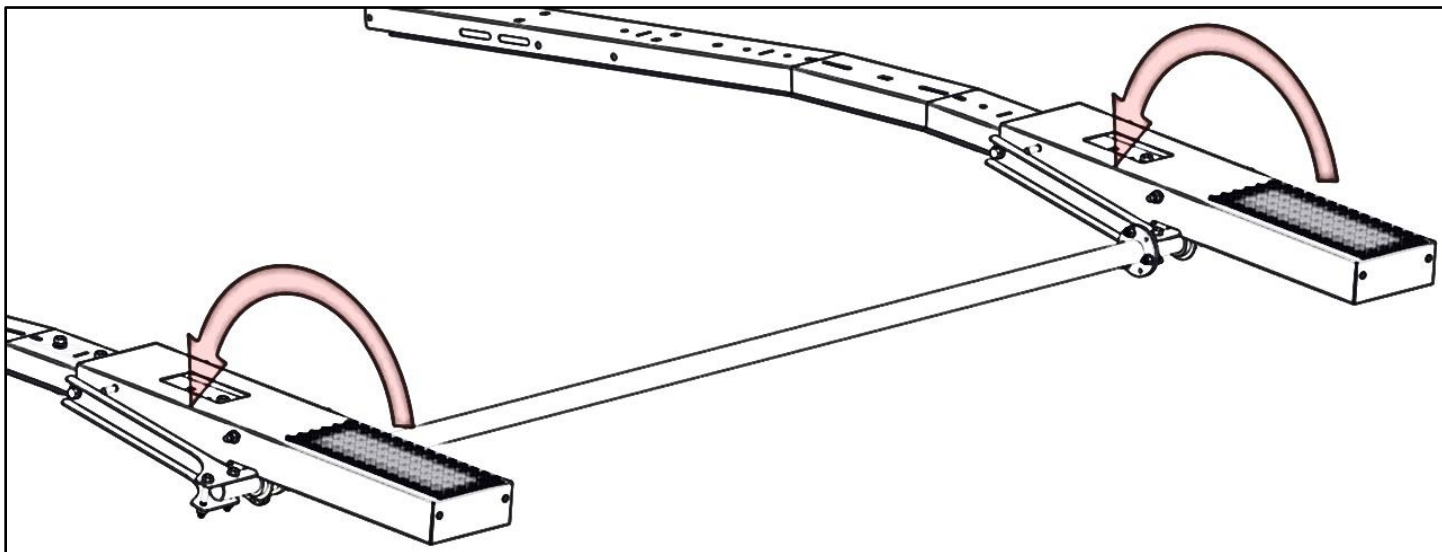


Step 2 – Install Torque Tube

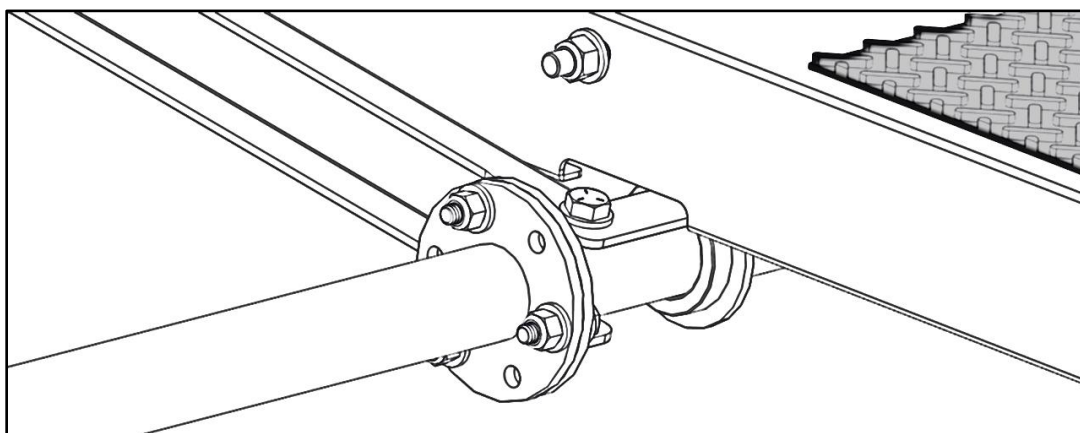
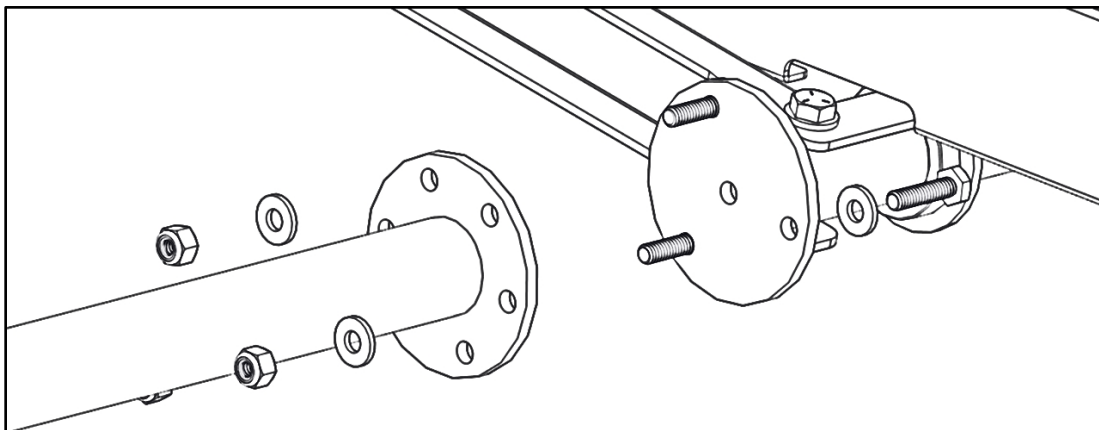
- Place torque tube in between the two bows.

Be sure both ladder pans are COMPLETELY resting on the bows as shown.

- Bolt torque tube to each bow using three 1/4" x 7/8" hex head bolts, six 1/4" flat washers and three 1/4" nyloc nuts.

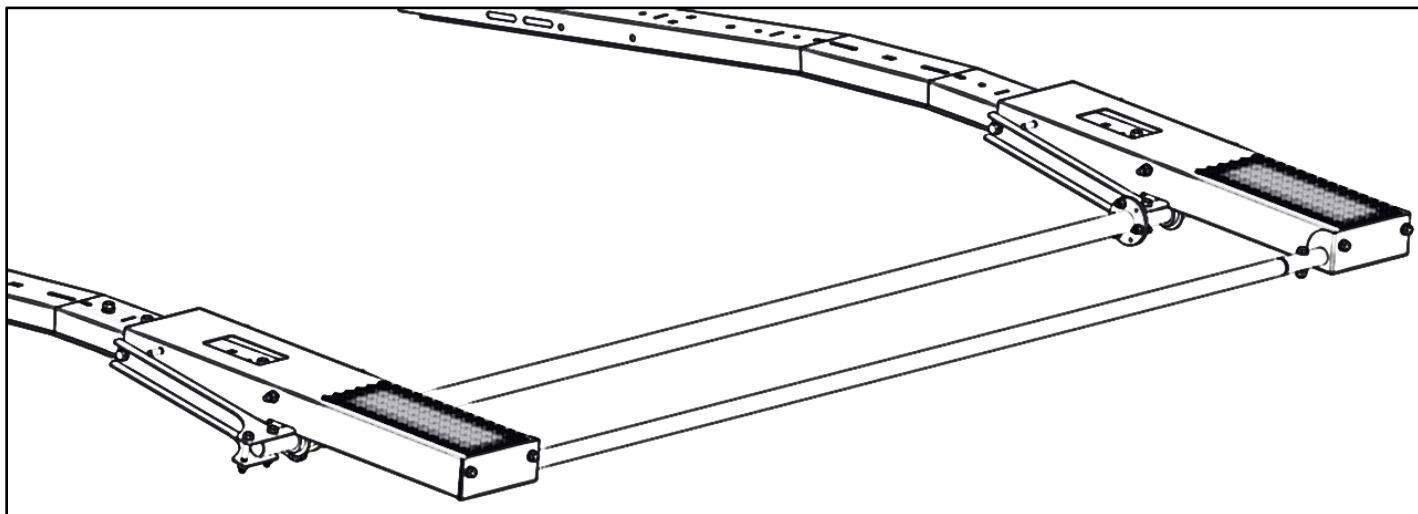


- Repeat on front and rear bow.
- DO NOT TIGHTEN at this point.

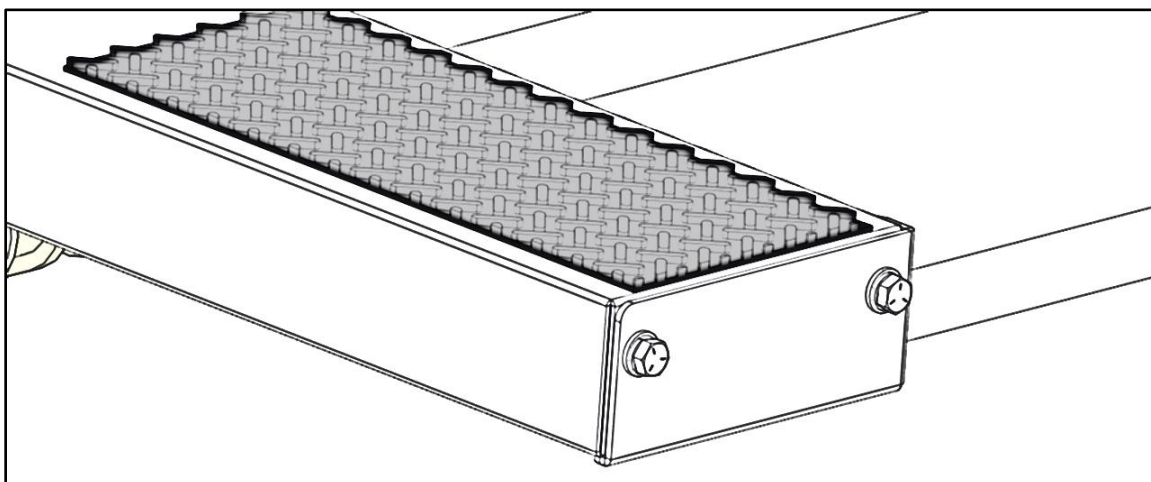
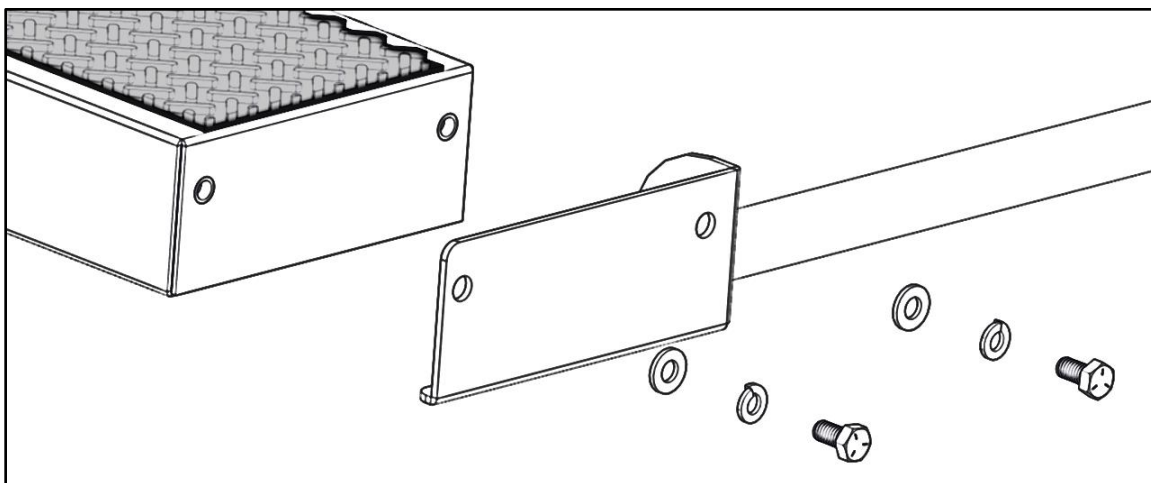


Step 3 – Install Pan Tube

- Place pan tube at the end of the two bows.
- Bolt pan tube to each bow using two 5/16" x 5/8" hex head bolts, two 5/16" split lock washers and two 5/16" flat washers.

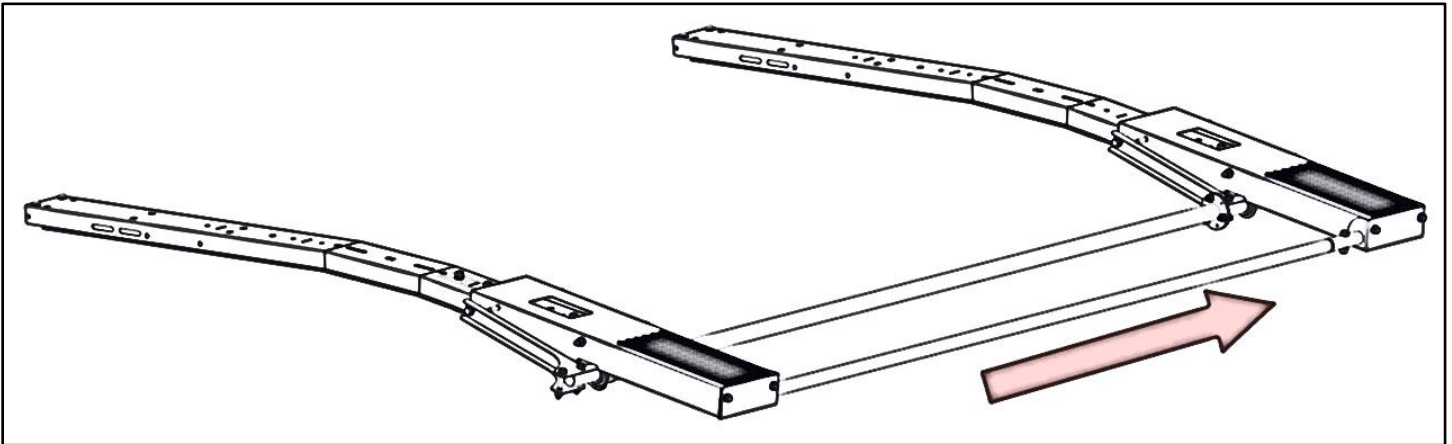


- Repeat on front and rear bow.
- DO NOT TIGHTEN at this point.



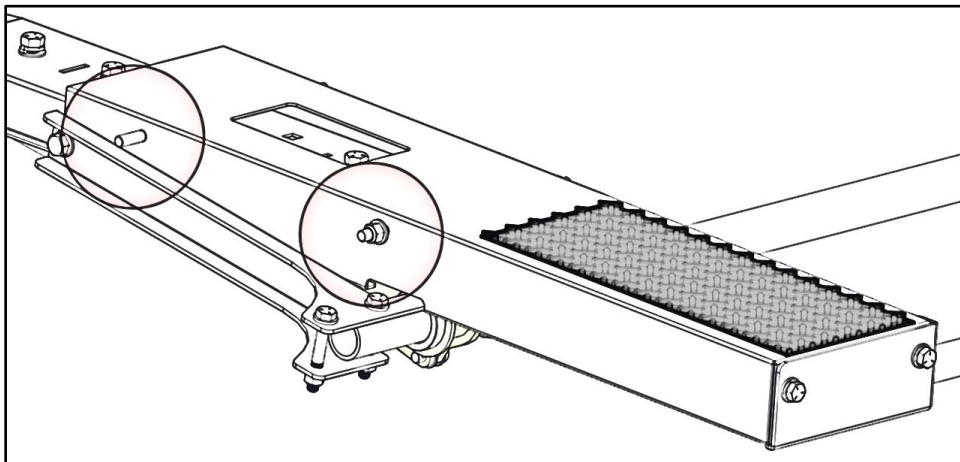
Step 4 – Tighten Hardware

- Start with tightening the rear bow to the feet.
- Tighten rear bow to torque tube from step 2.
- Tighten rear bow to pan tube from step 3.
- Tighten front bow to torque tube from step 2.
- Tighten front bow to pan tube from step 3.
- Tighten front bow to feet.
- Be sure the rack is **SQUARE**.

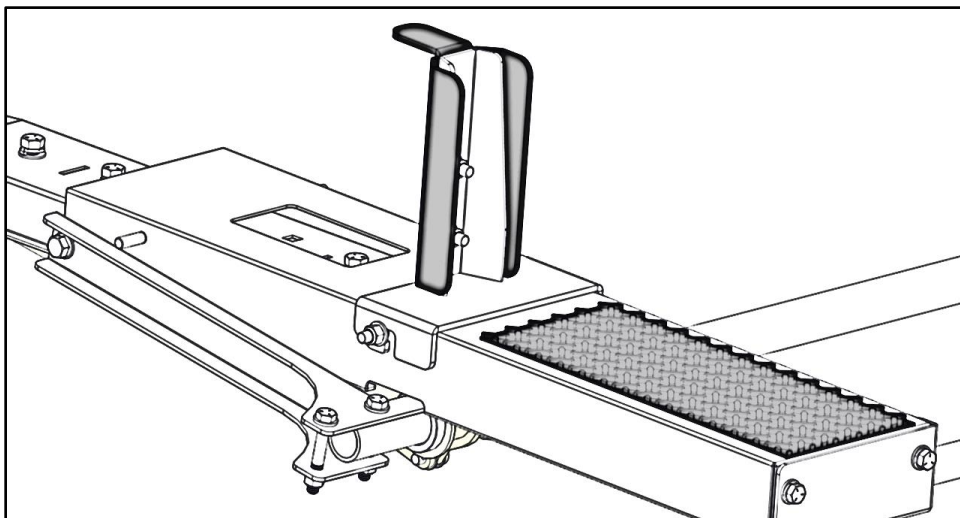
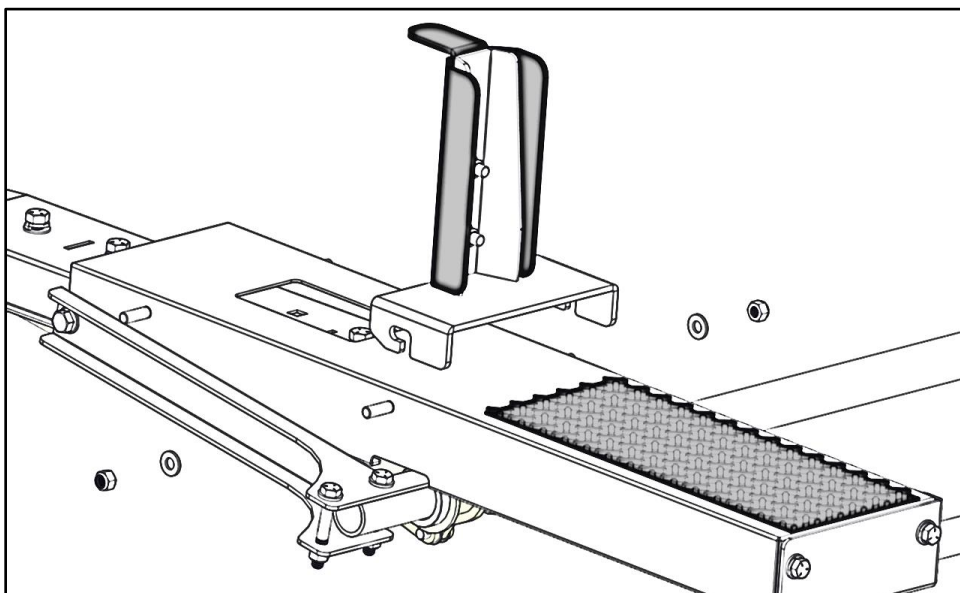


Step 5 – Install Ladder Hooks

- Choose the location where the ladder hook will be installed on both bows.

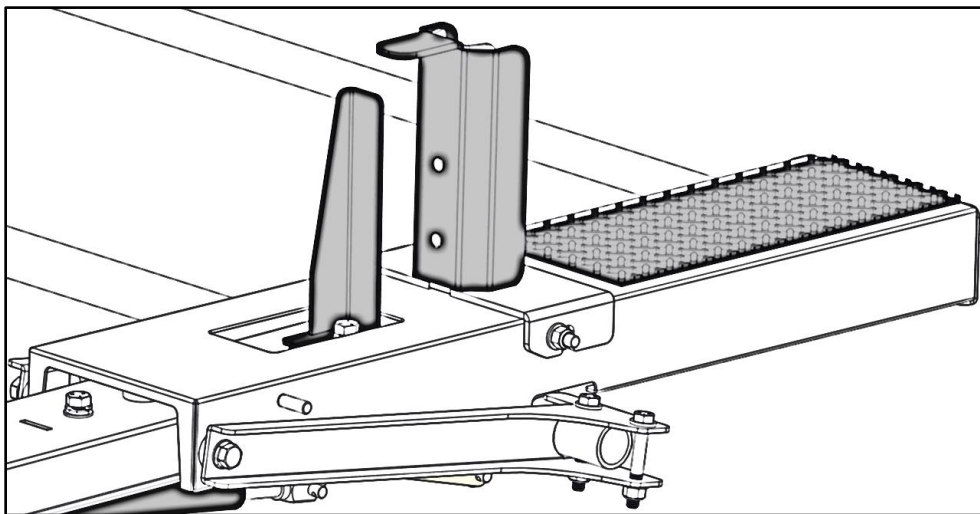
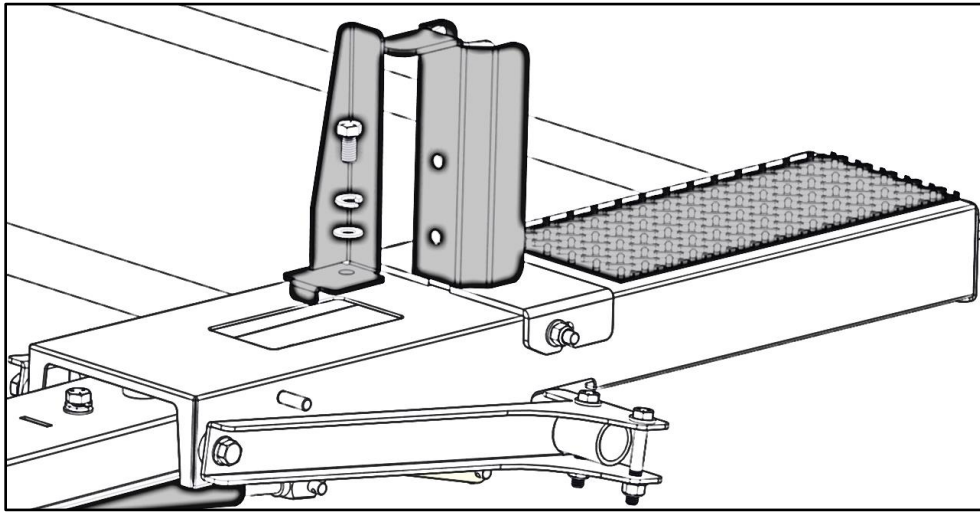


- Once the location is determined, use the pre-installed hardware on bow for installation.
- TIGHTEN.

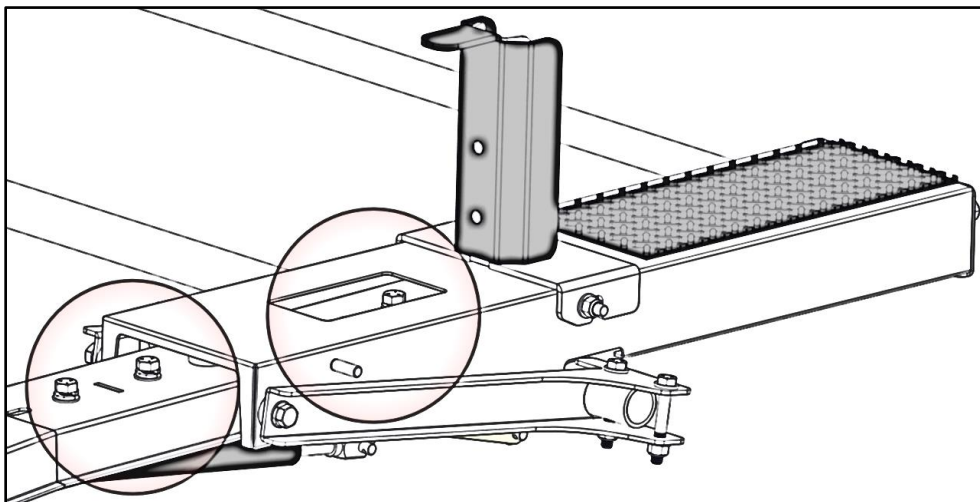


Step 6 – Install Ladder Stops

- Place ladder stop next to the previously installed ladder hook on both front and rear bows.
- Attach to bow using pre-installed hardware.

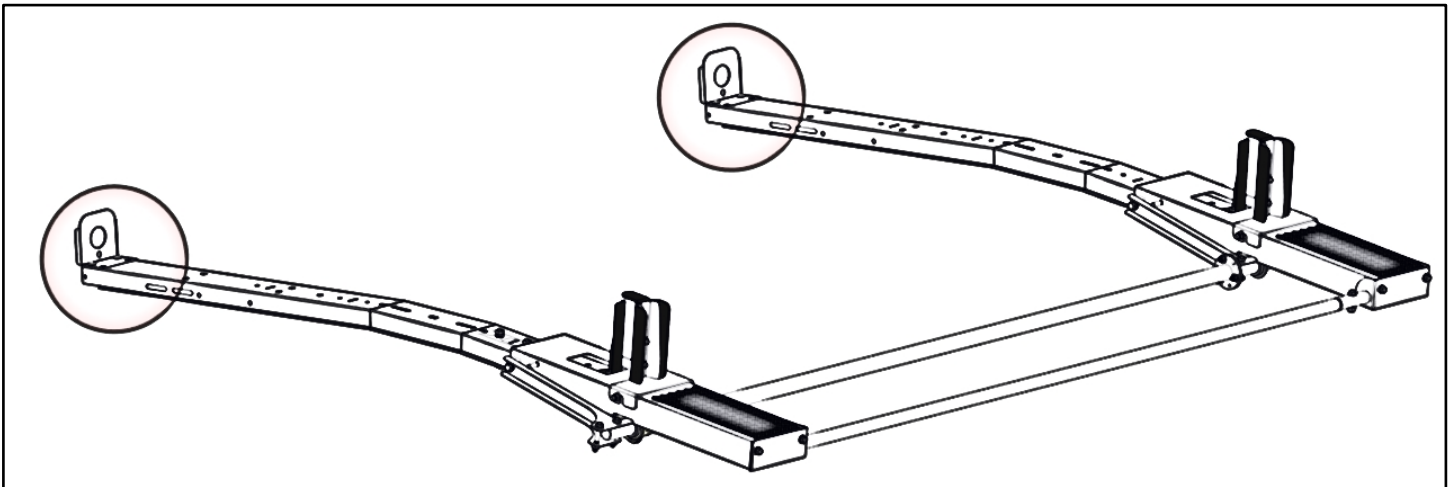
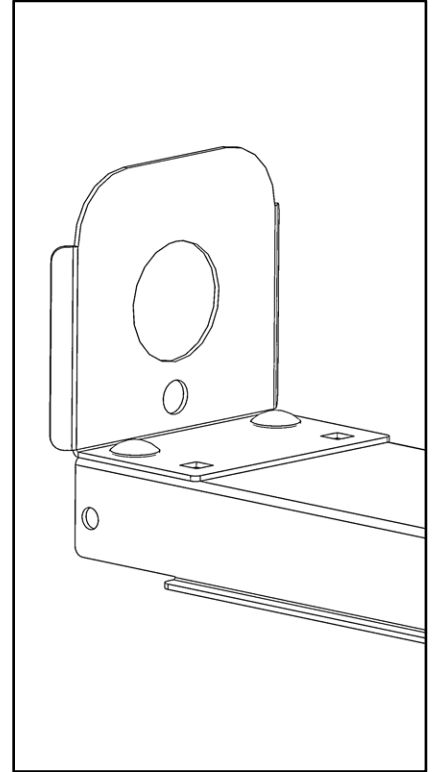
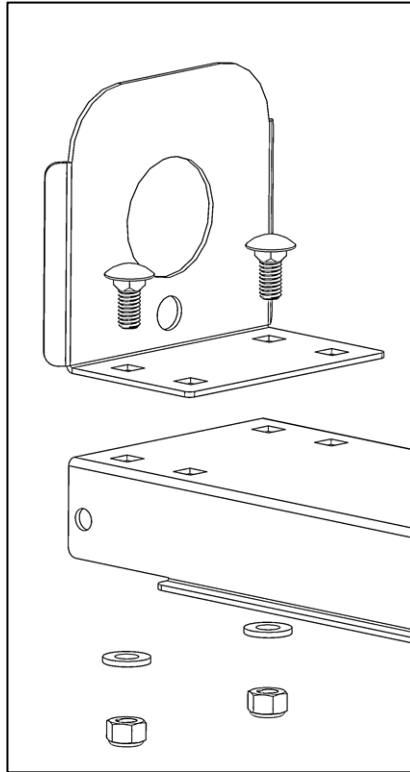


- Be sure the flange on the ladder stop lines up with the rectangular cut out in the pan.
- TIGHTEN.



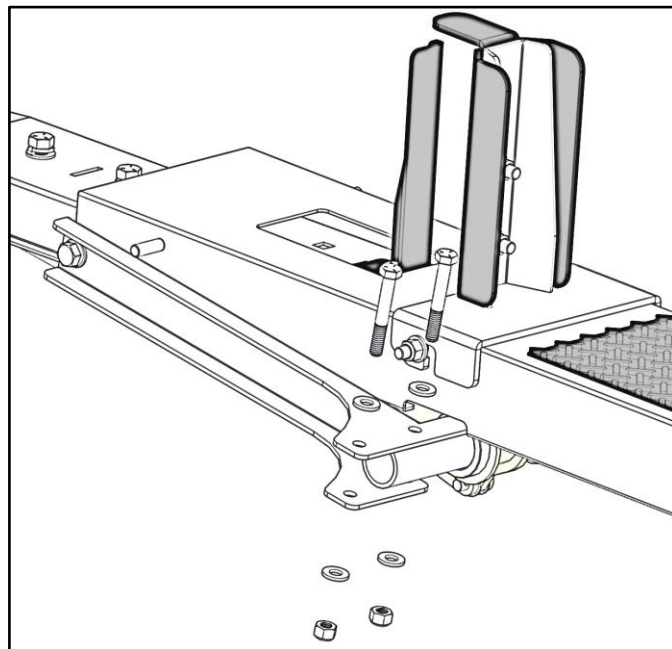
Step 7 – Install Bow Stop

- At the open end of each bow, mount the bow stop using 5/16" x 3/4" carriage bolts, 5/16" flat washers and 5/16" nylon lock nuts.

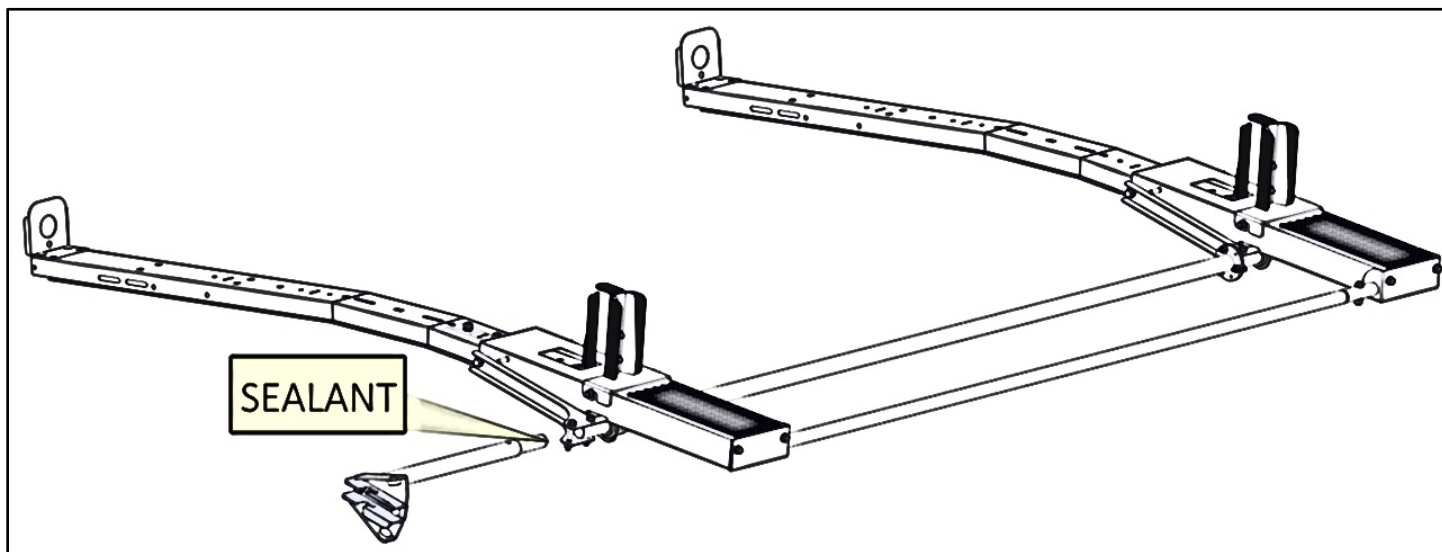


Step 8 – Install Handle Bar Assembly

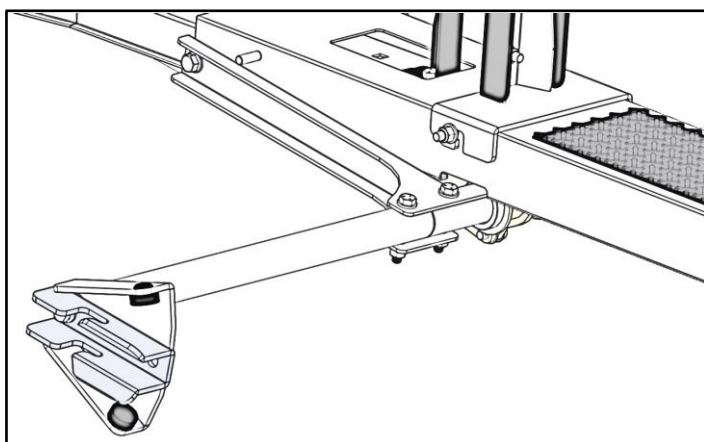
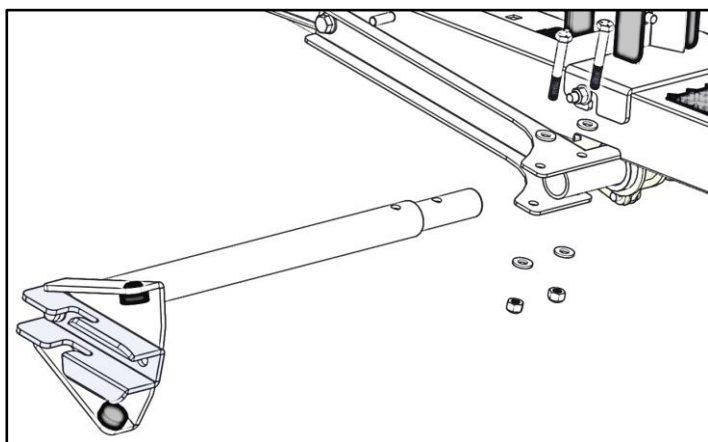
- Remove the hardware that attaches the pan arm to the rear bow tube mechanism.



- Insert handle bar assembly into the open tube in the rear bow tube mechanism.
- Place a generous amount of sealant around the swage connection.

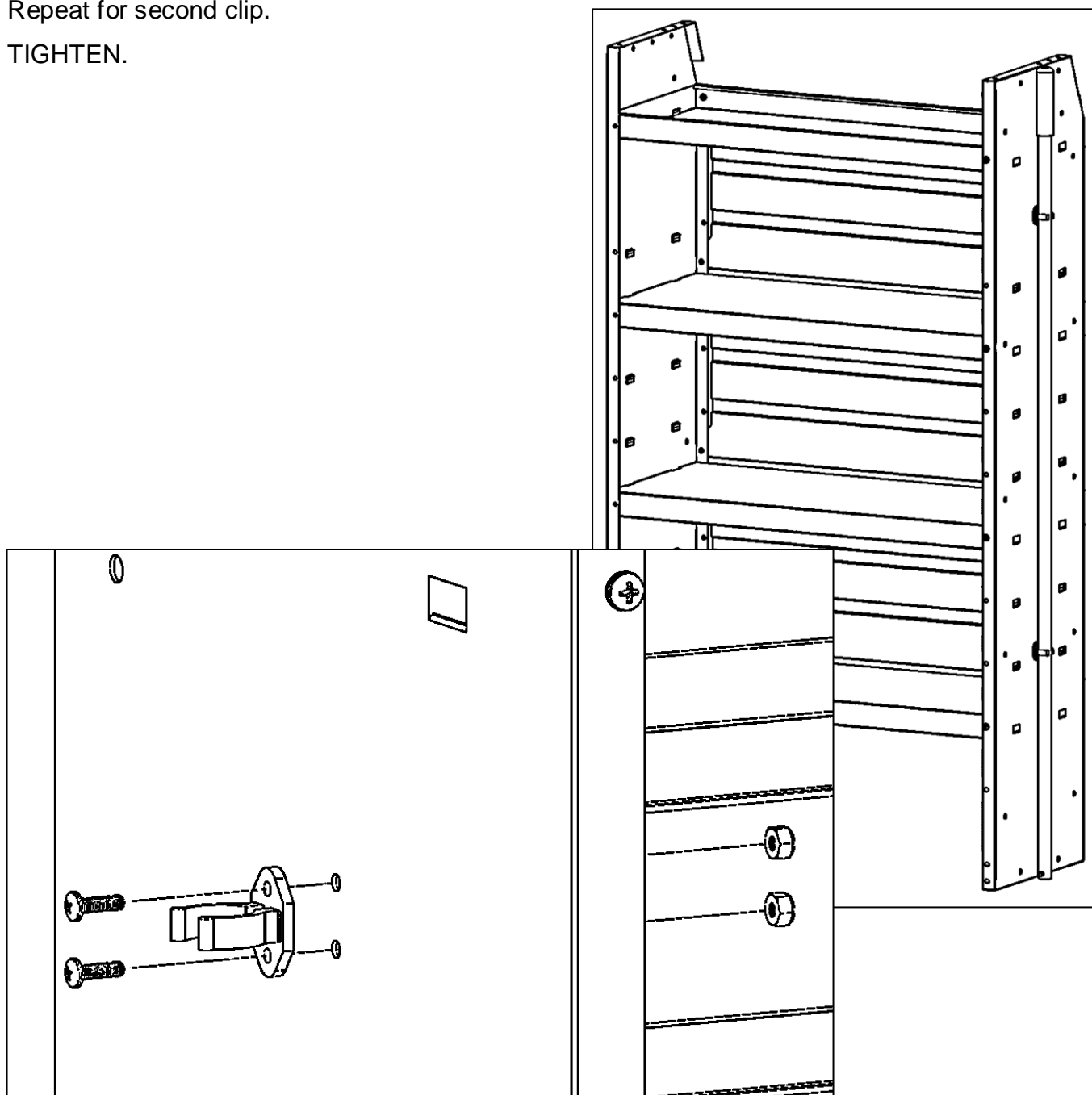


- Bolt handle bar assembly to the rear bow using the previously removed hardware.



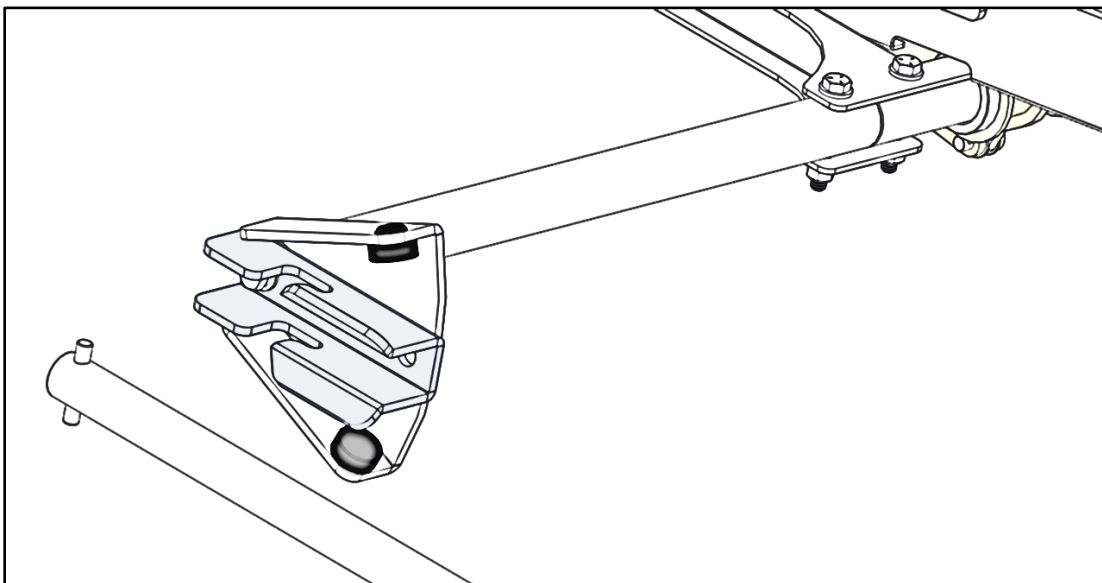
Step 9 – Install Clips for Handle

- Locate a good mounting place to install the upper clip for the handle. We recommend placing towards the rear of the van on the rear panel of a shelf.
- Place the upper clip on the handle.
- Place the handle against the shelf in the desired location.
- Mark the holes onto the shelf.
- Drill the locations using a 7/32" drill.
- Attach clip using two #10 x 5/8" pan head screws and #10 nuts.
- Repeat for second clip.
- TIGHTEN.



Step 10 – Test Ladder Rack

- Go back and ensure all hardware is tight.
- Prior to installing a ladder, place the long handle into the handle bar assembly and test that the ladder rack mechanism works correctly.



ENSURE ALL HARDWARE IS TIGHT.

YOUR INSTALLATION IS NOW COMPLETE.

