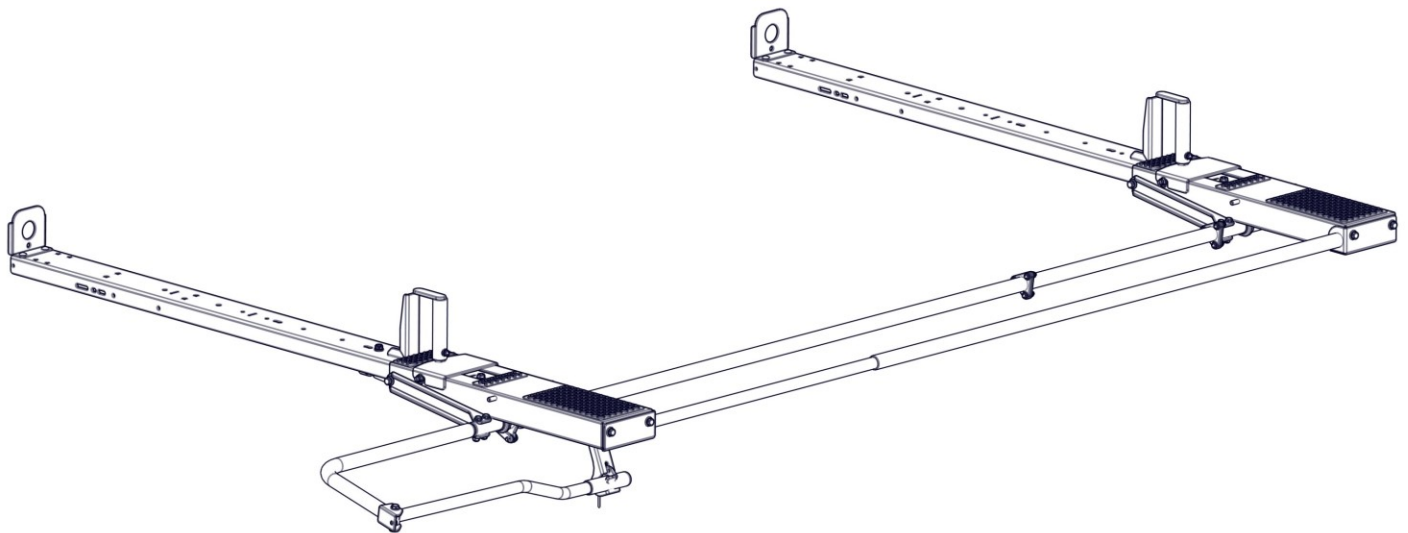




WE PUT EVERYTHING WITHIN REACH.

Assembly Guide

4A93L



Kargo Master
Rancho Cordova, CA 95742
800-343-7486
CustomerService@KargoMaster.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

5/16" Wrench and Socket	3/8" Wrench and Socket
1/2" Wrench and Socket	9/16" Wrench and Socket
Tape Measure	

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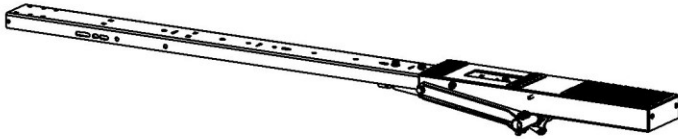
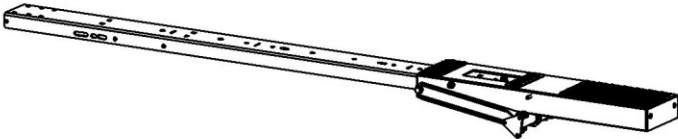

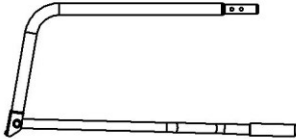

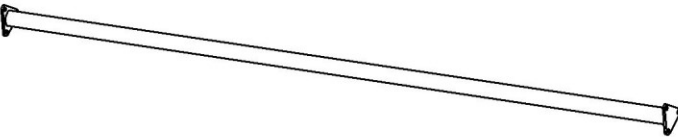


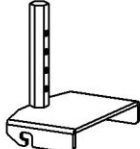
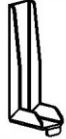

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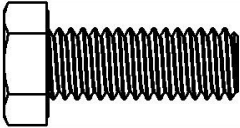
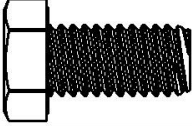
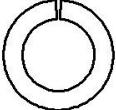
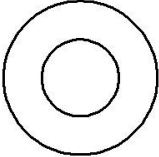

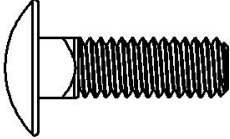
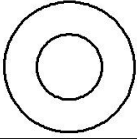

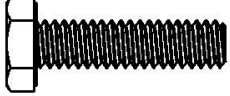
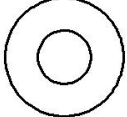

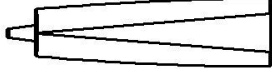
Before You Begin

- Read all instructions.
- Have mount kit installed on vehicle.
- **NEVER EXCEED MANUFACTURERS ROOF WEIGHT RATING.**
- Place sealant around all sawge joints to avoid water from leaking inside of ladder rack.

Parts

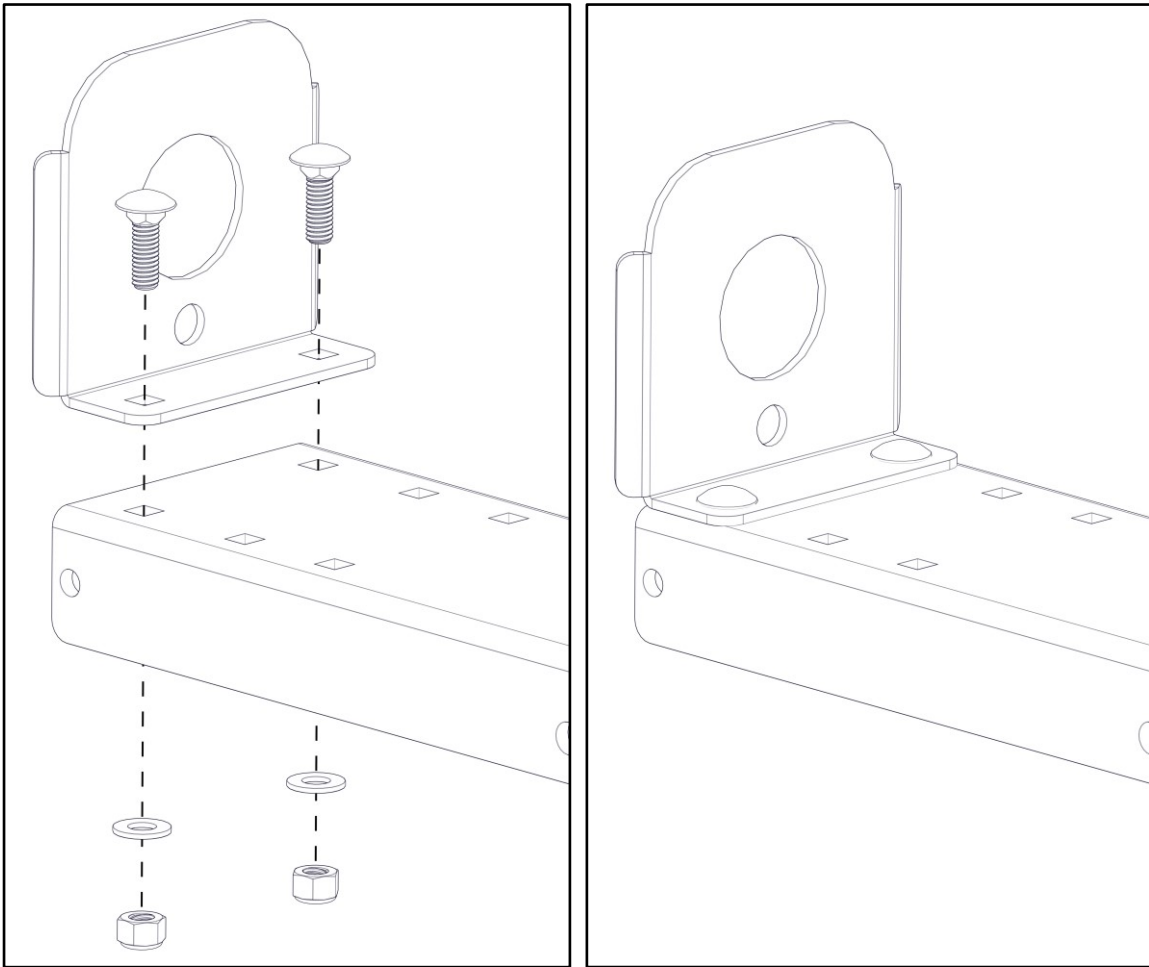
ITEM NO.		PART NUMBER	DESCRIPTION	QTY.
A		4A93L-1	Rear Bow	1
B		4A93L-2	Front Bow	1
C		4A93L-7	Support Tube Assembly	1
D		4A93L-70	Handle Assembly	1
E		4A93L-51	Torque Tube Extension	1
F		4A93L-50	Torque Tube	1
G		4A93L-44-R1	Latch	1
H		4A900-35	Ladder Hook	2
J		4A900-36	Ladder Hook Base	2
K		4A900-30-004-R3	Ladder Stop	2
L		4A900-10-008-R2	Load Plate	2
		18-4A93L	Hardware Kit	1

Hardware

ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		92865A624	BOLT, HEX, 3/8-16 X 1"	2
2		92865A622	BOLT, HEX, 3/8-16 X .75"	4
3		91102A760	WASHER, LOCK, 3/8	6
4		90126A031	WASHER, FLAT, 3/8, SAE	7
5		97135A230	NUT, HEX, NYLOK, 3/8-16	1
6		90185A583	BOLT, CARRIAGE, 5/16-18 X 1	6
7		90126A030	WASHER, FLAT, 5/16, SAE	6
8		95615A160	NUT, NYLOC, 5/16-18	6
9		92865A542	BOLT, HEX, 1/4-20 x 1"	11
10		90126A029	WASHER, FLAT, 1/4"	20
11		95615A120	NUT, NYLOK, 1/4-20	9
12		BH-821	SEALANT	1

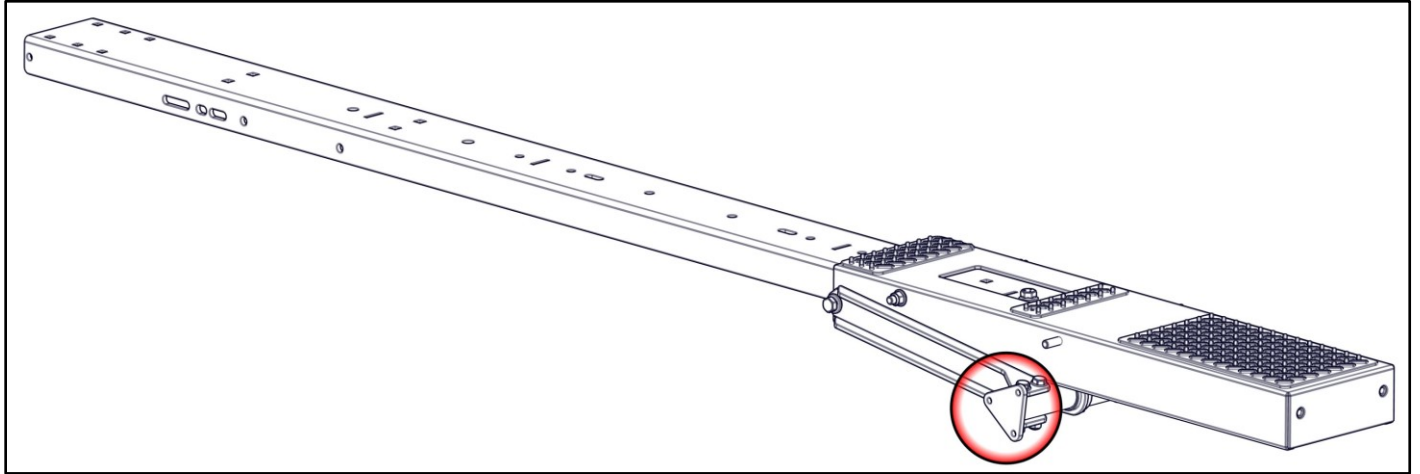
Step 1 – Load Plates

- At the end of each bow, opposite from the pan mechanism, bolt the load plate using two 5/16" x 1" carriage bolts, two 5/16" flat washers and two 5/16" nyloc nuts in the orientation shown.
- If installing a driverside ladder rack, skip installing the load plates.
- Repeat on both bows.
- Tighten.

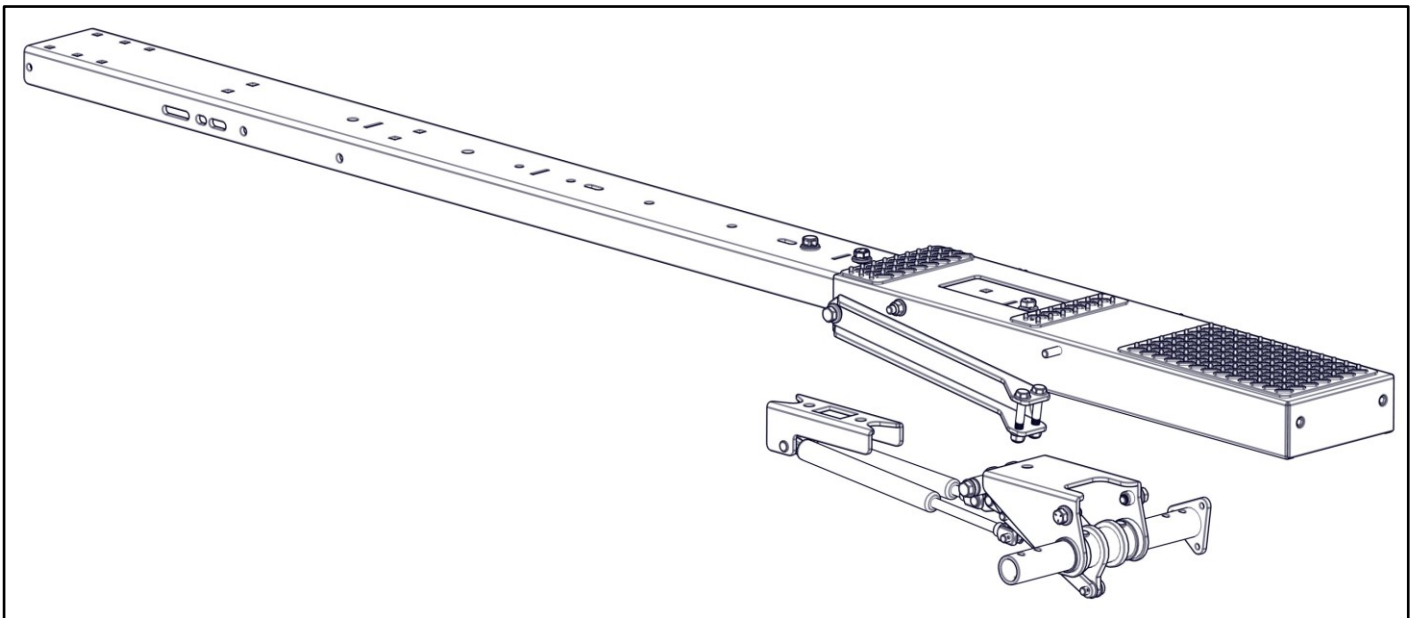


Step 2 – Determine Front and Rear Bow

- The front bow is shown below. This bow does **NOT** have a dampening mechanism on the underside. Notice the location of the triangular piece.

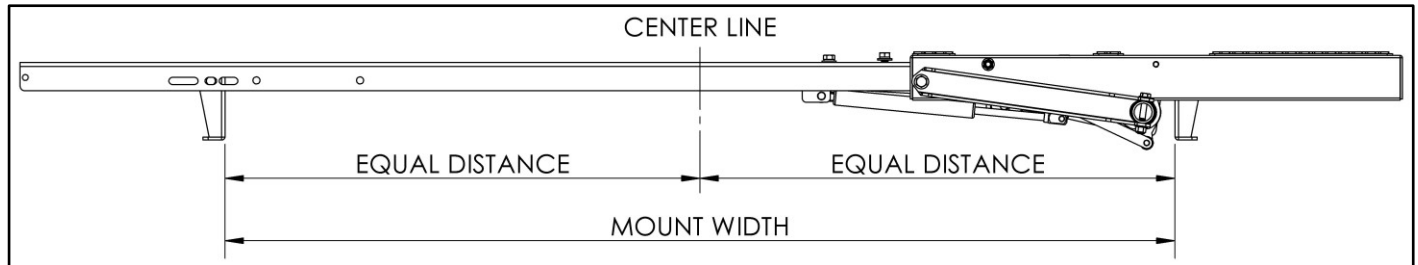


- The rear bow is shown below. This bow has the dampening mechanism pre-assembled on the underside.



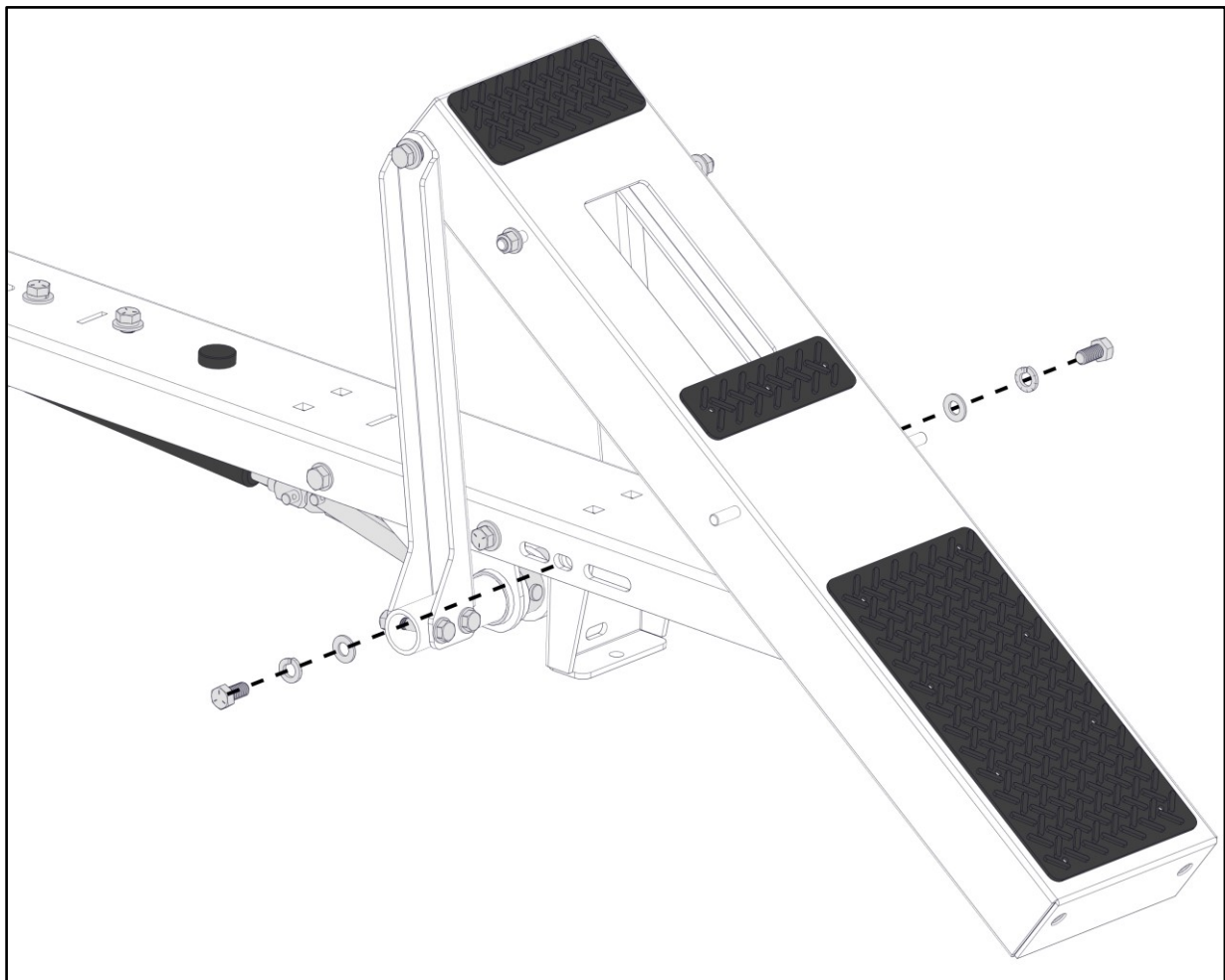
Step 3 – Place Bows on Vehicle

- Be sure to have the vehicle specific mounting installed on vehicle.
- Place the front bow on top of the front most mounts on the vehicle and the rear bow on the rear most mounts.
- Be sure there is an equal distance from the center of the cross bow to each foot as shown below.



- Place a foam block from the packaging to hold the bow in the up position in order to access the mounting slots. The same slot, but on opposite ends of the bow should be used.
- Leave loose until the rack is assembled.
- Repeat at both ends of both bows.

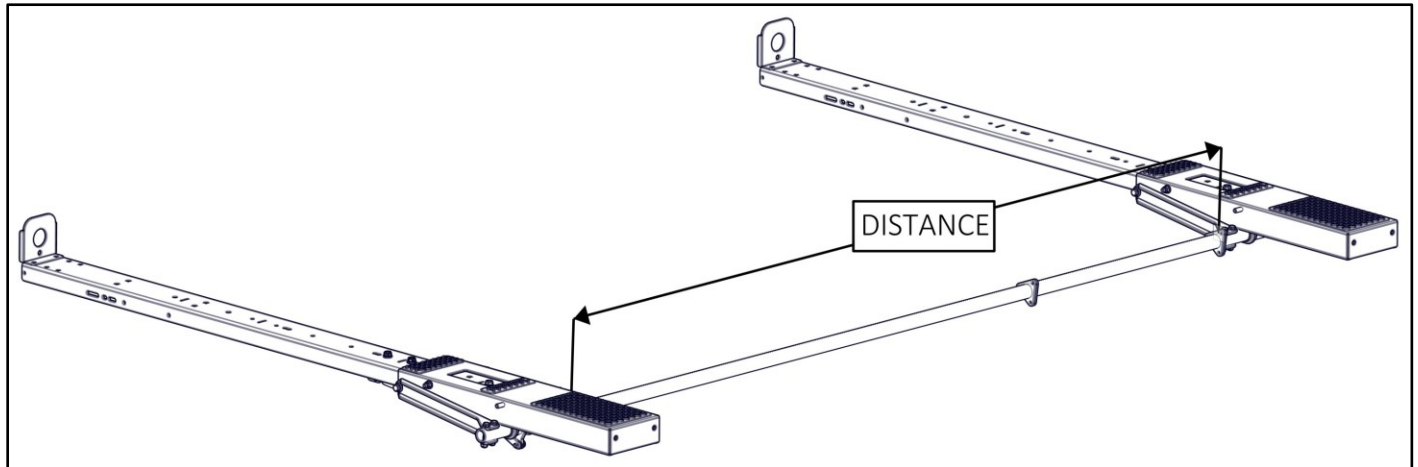
****Bow, feet, mounting slots and foot orientation may vary from installation to installation.****



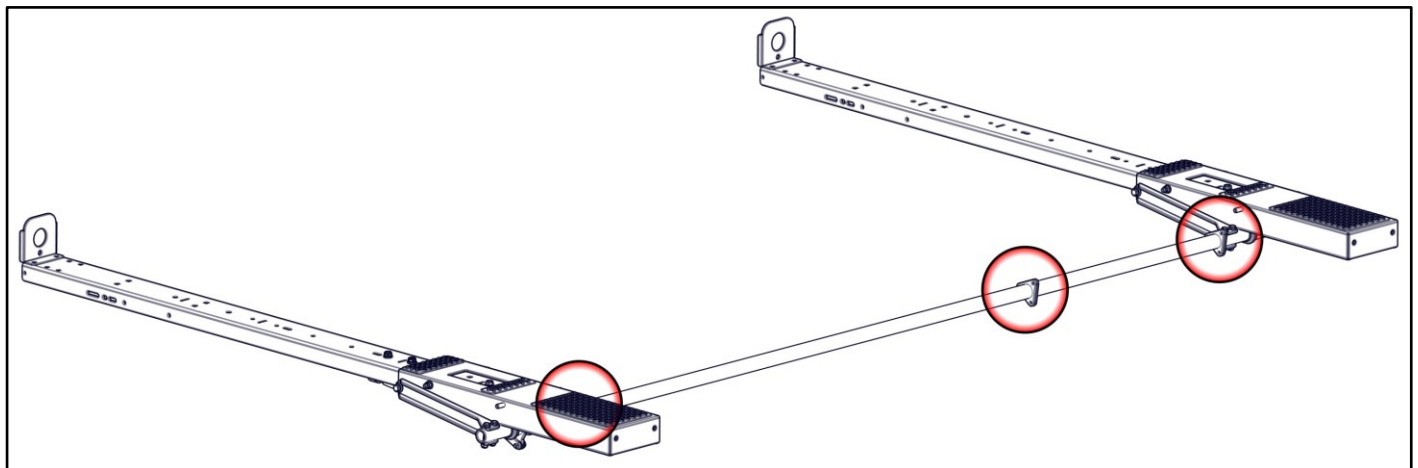
Step 4 – Install Torque Tube

- Measure the distance between the two bows as shown. If the distance is approximately **84.5"**, the extension will be used.
- If the distance between the two bows is approximately **60"**, the extension piece is **NOT** used.

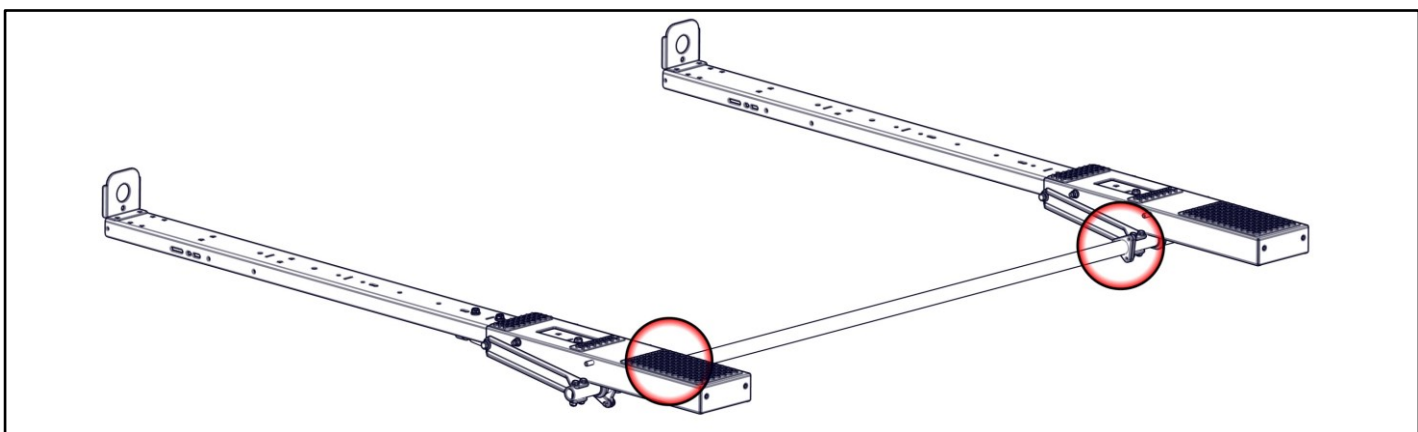
** Picture shown below has the extension installed**



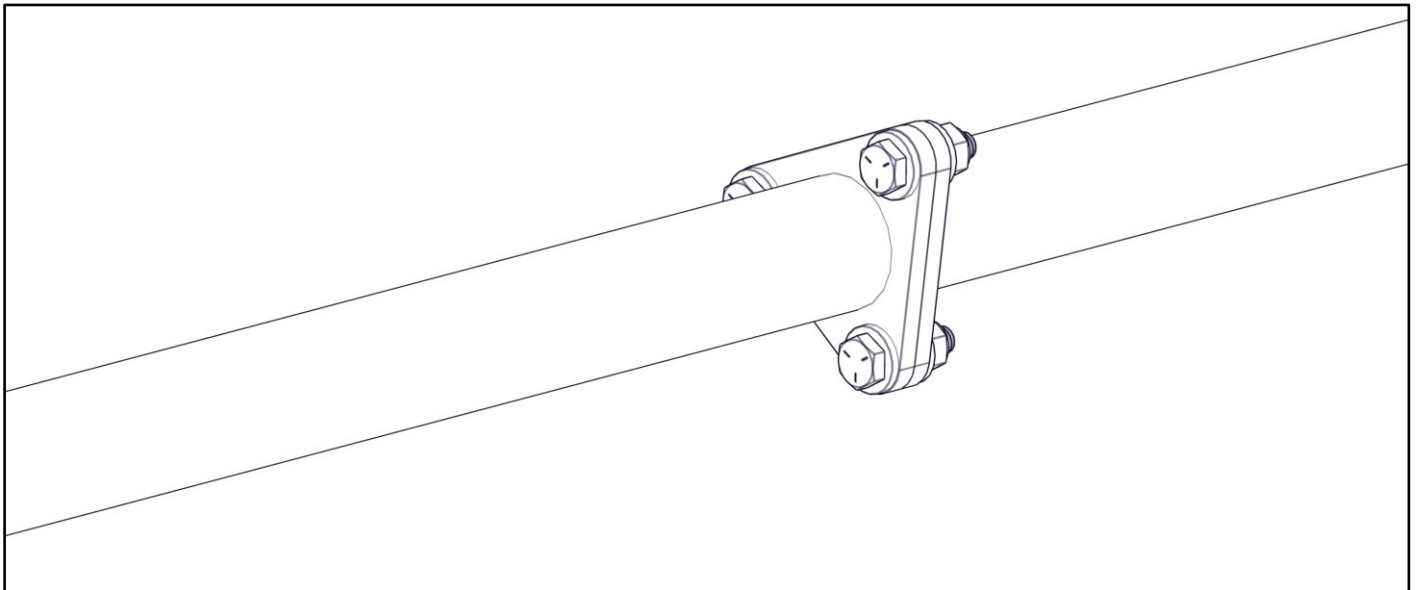
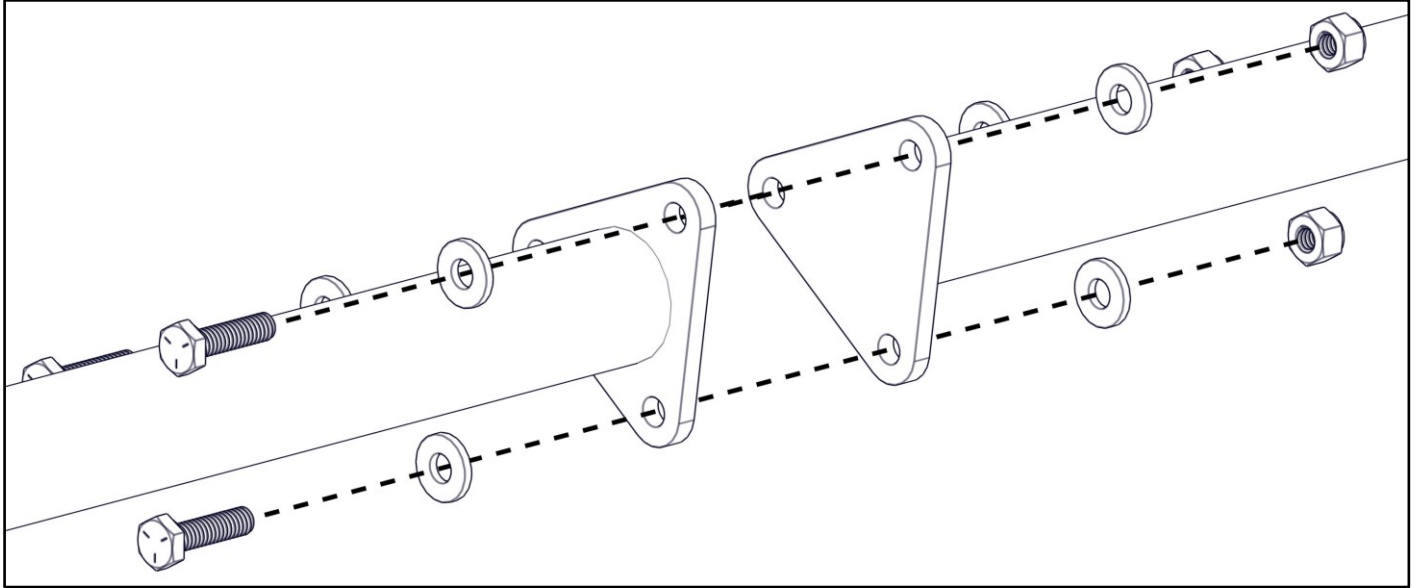
- If the extension is needed, assemble the extension to the torque tube the same way the torque tube attaches to the bows.



- If the extension is **NOT** needed, use only the torque tube as shown below.

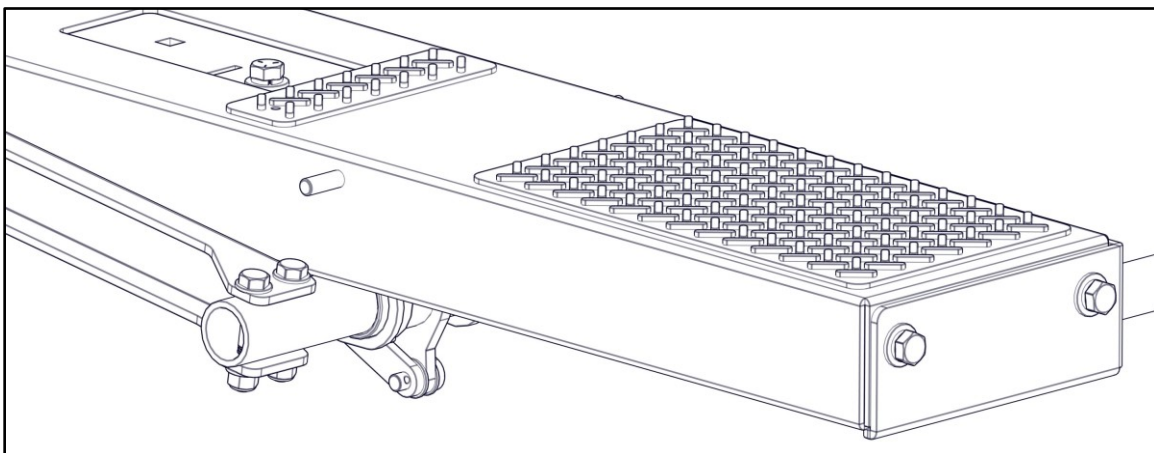
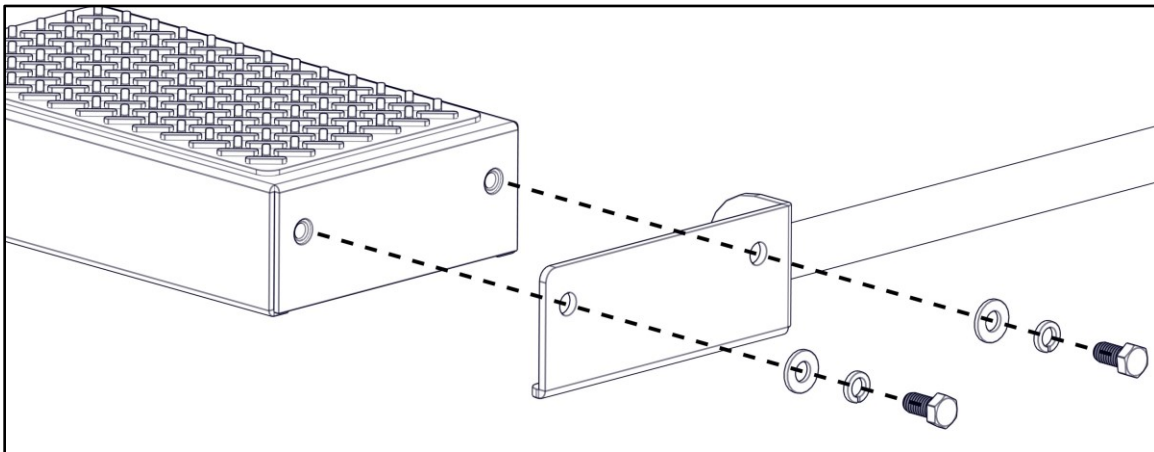
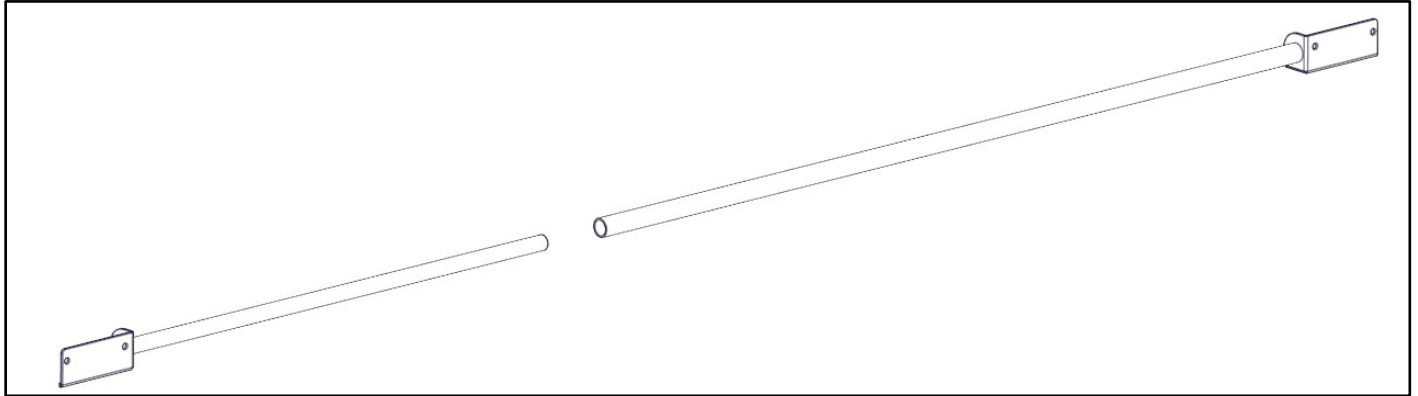


- Bolt the torque tube to the front and the rear bow using a 1/4" x 1" hex head bolt, two 1/4" flat washers and a 1/4" nyloc nut at each location. If the extension is used, bolt to the torque tube and bow using the same method.
- If EXT is not needed, use only the long torque tube.



Step 5 – Install End Tube

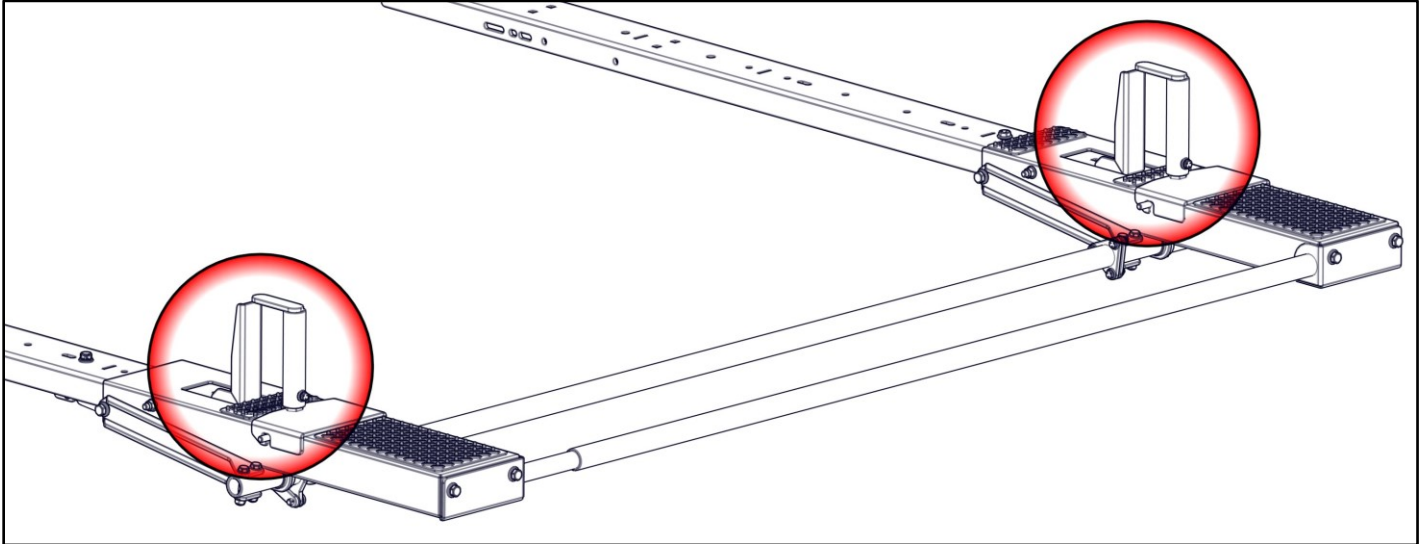
- Assemble end tubes as shown. Bolt to the end of both pans using 3/8" x 3/4" hex head bolts, 3/8" split lock washers and 3/8" flat washers.
- Repeat at the end both bows.
- Tighten.



Step 6 – Install Ladder Hooks and Stops

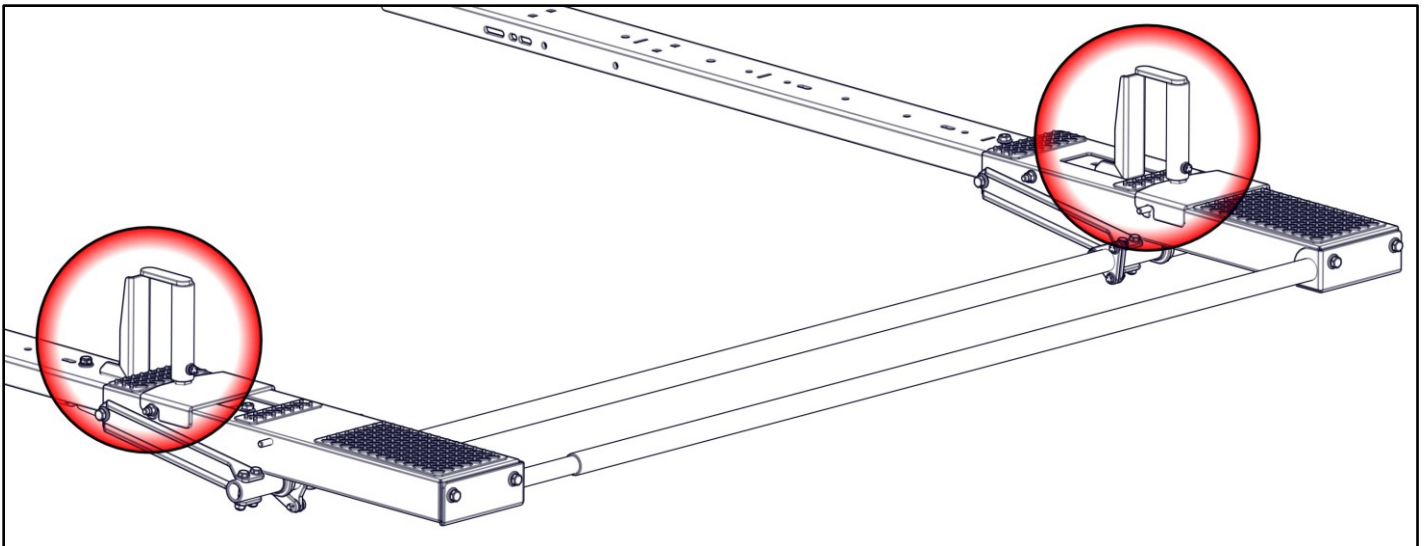
- Determine which location the ladder hook and ladder stop need to be installed.
- Notice there are two studs protruding from each ladder pan.
- Both bows, lower positions are best for extension ladders.

Location of ladder clamps and stops for standard extension ladders.



- Front bow, low position, Rear bow, upper position is best for common stepladders.

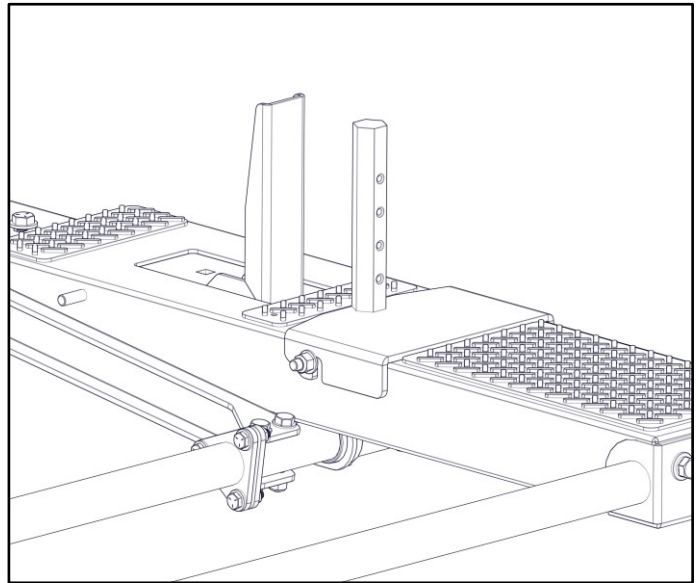
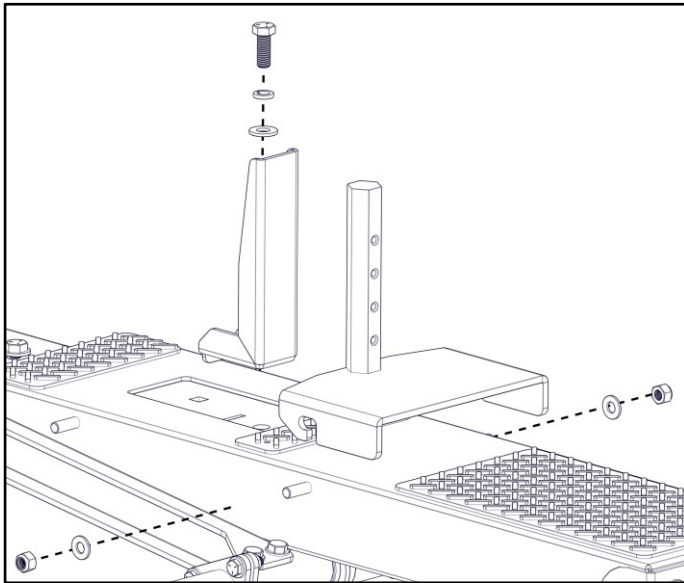
Location of ladder clamps and stops for standard stepladders.



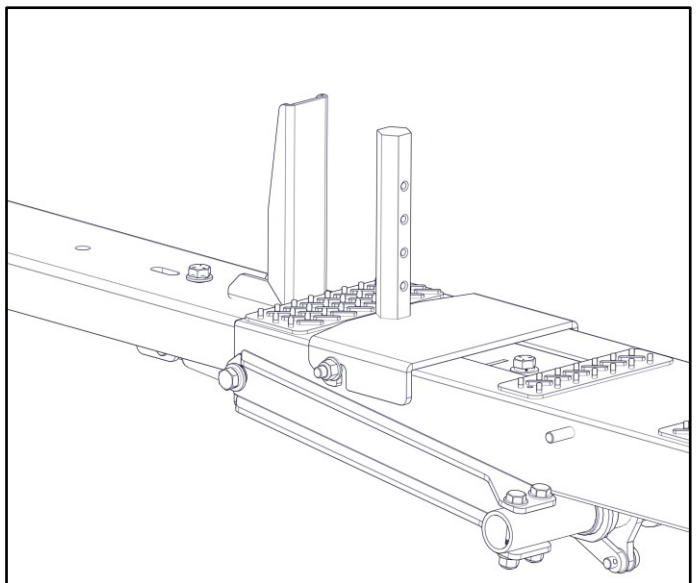
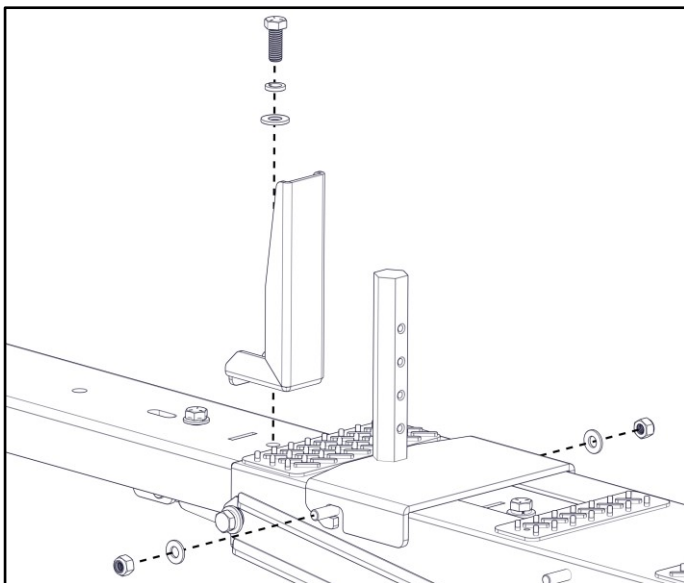
In the rare instance that the upper location is used on the front bow, A 3/8" nyloc nut and bolt will need to be used to install the ladder stop.

- On the front bow, place the ladder hook base around the threaded studs in the desired location and attach using 5/16" flat washers and 5/16" nyloc nuts.
- Position the ladder stop near the ladder hook base as shown. Be sure the slot of the ladder stop aligns with the slot in the bow.
- Bolt the ladder stop in place using a 3/8" x 1" hex head bolt, a 3/8" split lock washer and a 3/8" flat washer in the orientation shown.

In the rare instance that the upper location is used on the front bow, A 3/8" nyloc nut and washer will need to be used from the underside to install the ladder stop.

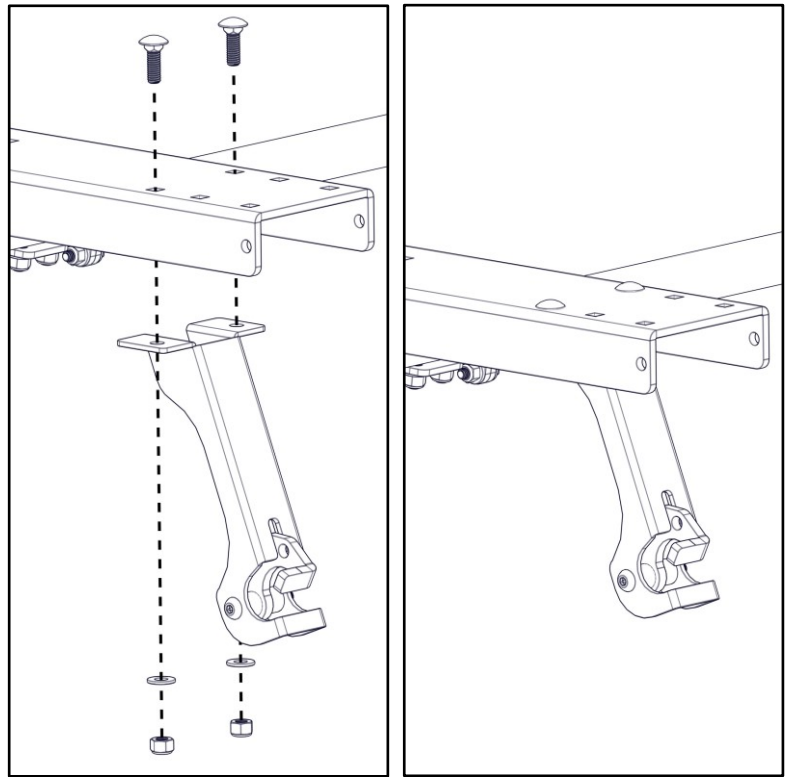


- On the rear bow, place the ladder hook base around the threaded studs in the desired location and attach using 5/16" flat washers and 5/16" nyloc nuts.
- Position the ladder stop near the ladder hook base as shown. Be sure the slot of the ladder stop aligns with the slot in the bow.
- Bolt the ladder stop in place using a 3/8" x 1" hex head bolt, a 3/8" split lock washer and a 3/8" flat washer in the orientation shown.



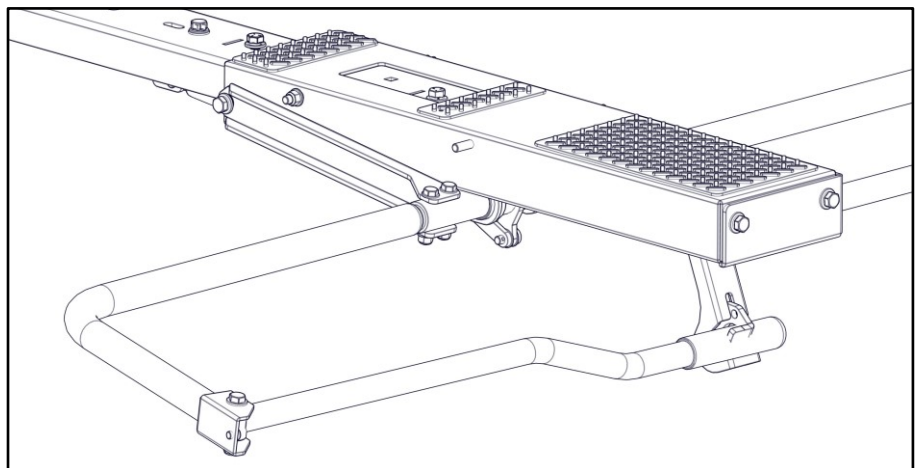
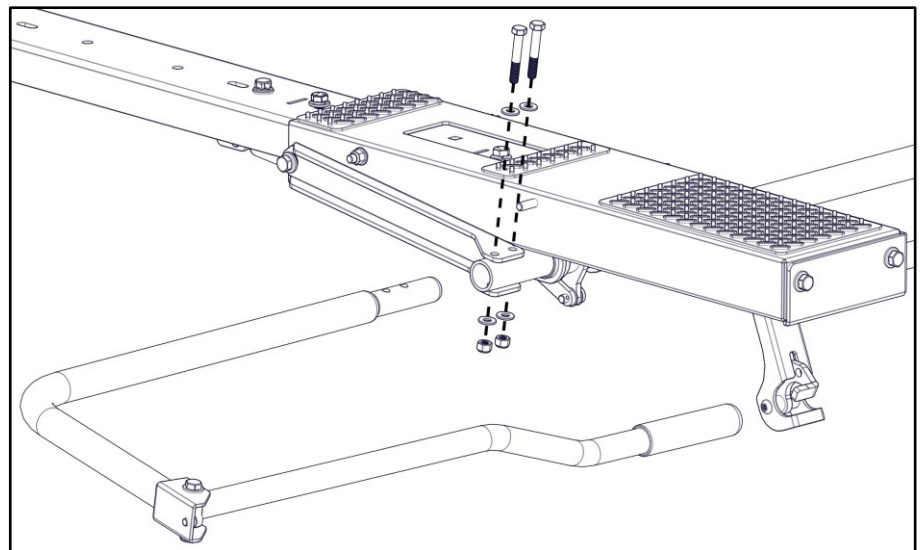
Step 7 – Install Latch

- Move rear pan assembly out of the way to expose the end of the crossmember as in Step 3.
- Bolt the latch to the end of the crossmember using two 5/16" x 1" carriage bolts, two 5/16" flat washers and two 5/16" nyloc nuts.
- Shown without pan for clarity.
- Tighten.



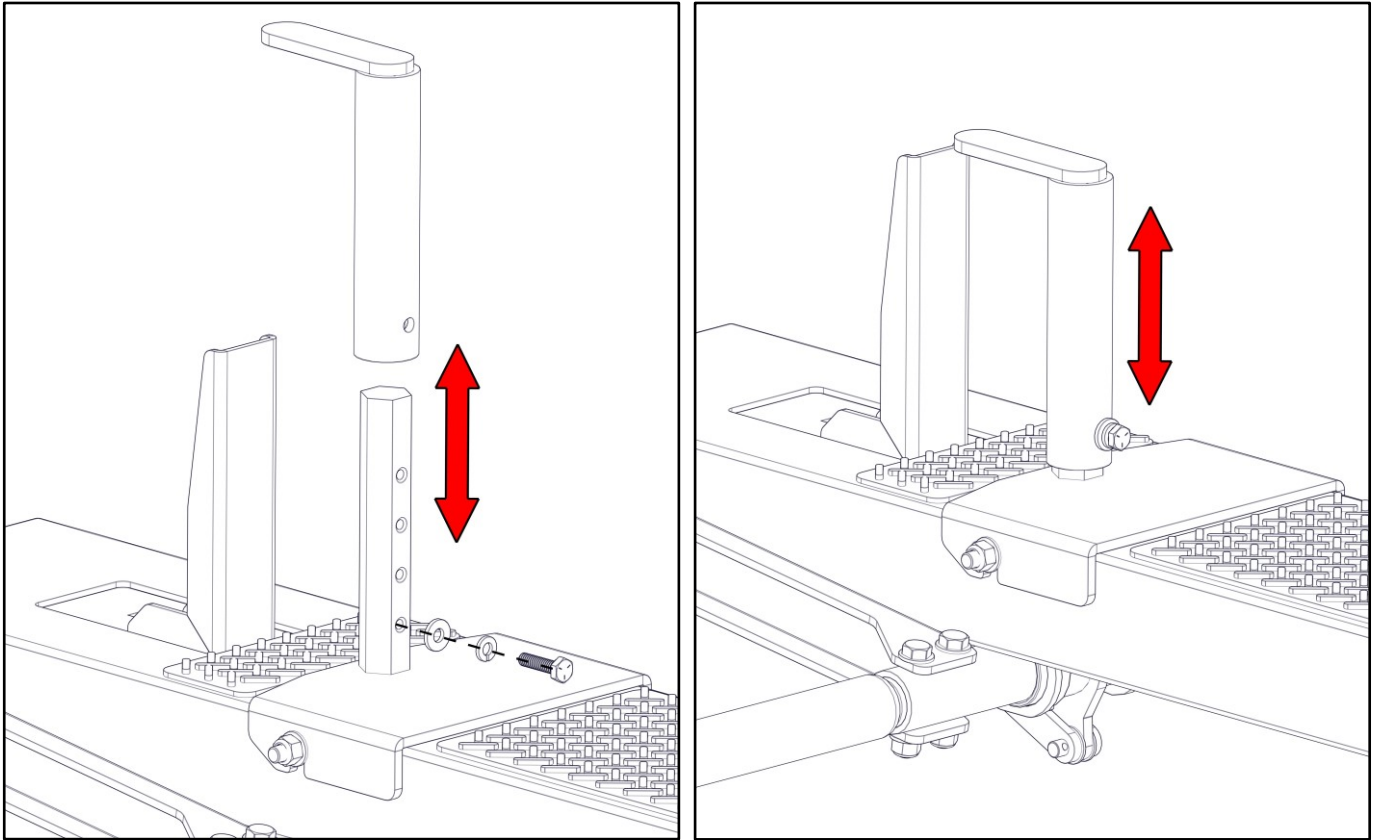
Step 8 – Install Handle

- Place handle in orientation shown.
- Place sealant round swage joint to ensure no water leaks into tubes.
- Attach handle to the rear pan using existing 5/16" hardware.
- Tighten.



Step 9 – Assemble Ladder Hooks

- Install the ladder hooks on the previously installed ladder hook base using 1/4" x 1" hex head bolts, 1/4" split lock washers and 1/4" flat washers in the desired location. This location is dependent on the size of the ladder being used. Adjust so the ladder hook fits the ladder as tight as possible.
- Tighten.



GO BACK AND TIGHTEN ALL BOLTS FROM PREVIOUS STEPS, BE SURE
HARDWARE IN MOUNTING IS TIGHT.

YOUR INSTALLATION IS NOW COMPLETE

