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# **KARGO MASTER<sup>®</sup>**

**WE PUT EVERYTHING WITHIN REACH.**

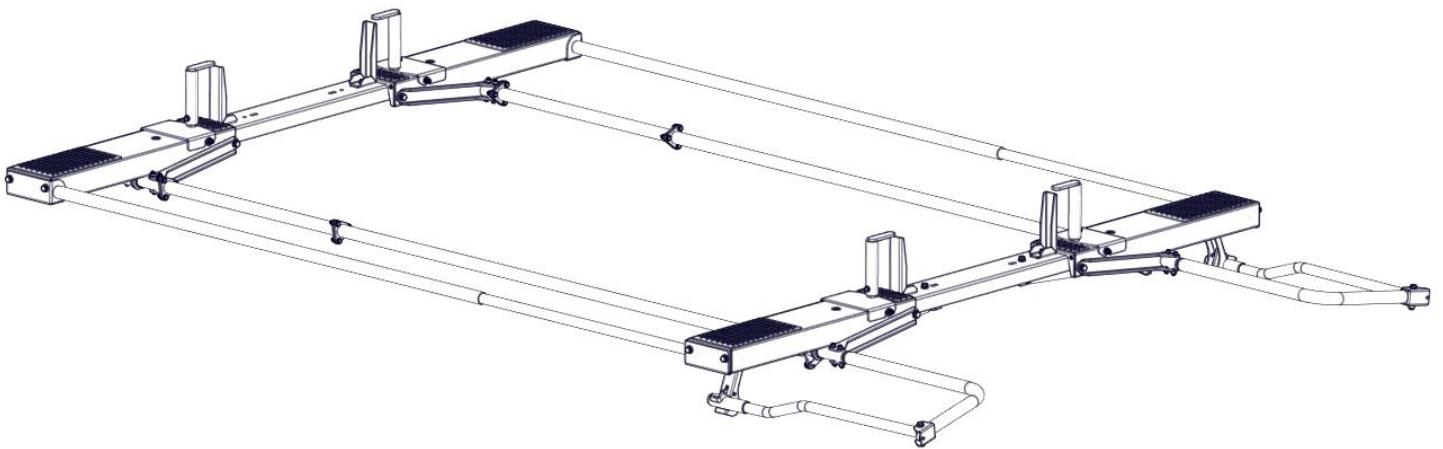
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## Installation Guide

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4A96L

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**\*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" Wrench and Socket	3/8" Wrench and Socket
9/16" Wrench and Socket	7/16" Wrench and Socket

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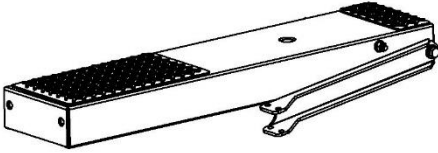
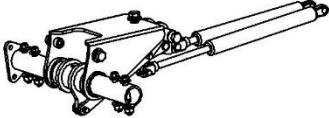
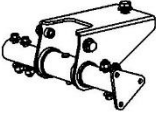
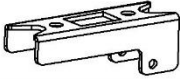
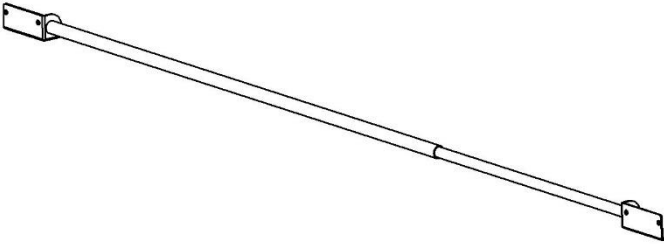
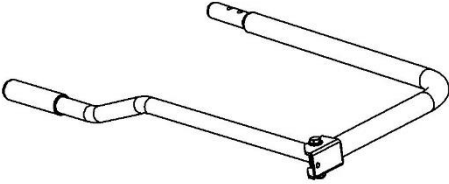
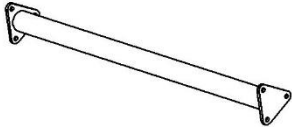
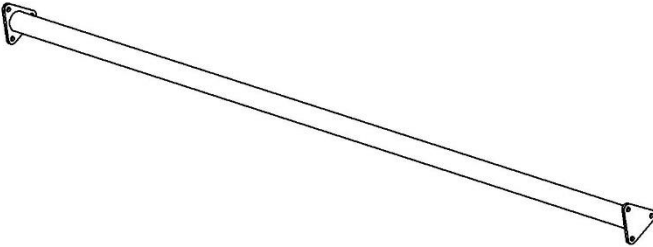
Step 17 Install Ladder Hook ..... 18

Step 18 Install Handle ..... 19

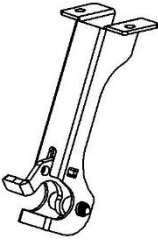
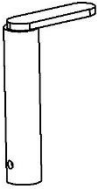
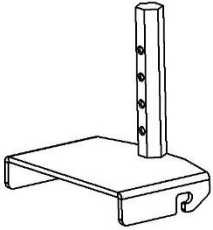

Before You Begin

- Read all instructions.
- Have Rack installed on vehicle. This is a Driver Side drop down addition.

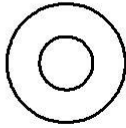
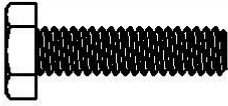
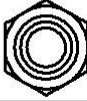
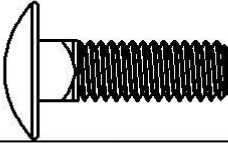
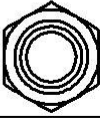
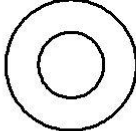

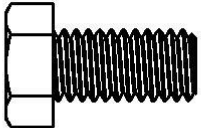
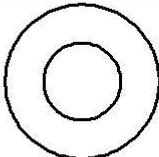
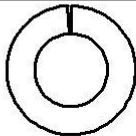
Parts

ITEM NO.		PART NUMBER	DESCRIPTION	QTY.
A		4A93L-10	ASSEMBLY, BOW, PAN, LADDER RACK, ALUMINUM	2
B		4A93L-11	MECHANISM, ASM, WITH DAMPERS	1
C		4A93L-12	MECHANISM, ASM	1
D		4A900-50-001-R3	DAMPER MOUNT BLOCK	1
E		4A93L-7	END TUBE ASM	1
F		4A93L-71	HANDLE ASM	1
G		4A93L-51	TORQUE TUBE ASM, EXT	1
H		4A93L-50	WELDMENT, TORQUE TUBE, STEEL, 71.5" SPACING, LOW ROOF DROP DOWN	1

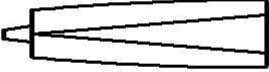
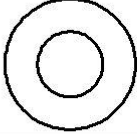
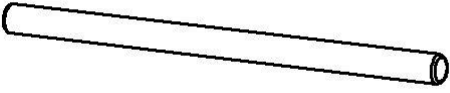

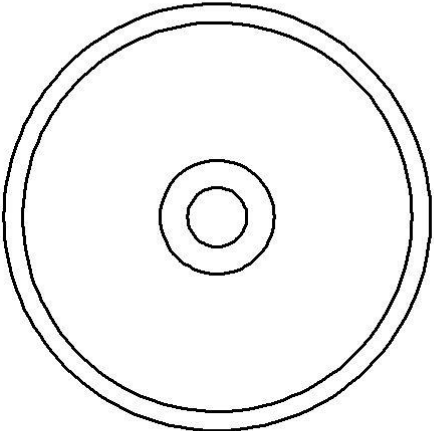


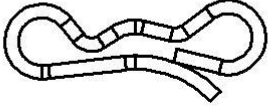
Parts Con't

ITEM NO.		PART NUMBER	DESCRIPTION	QTY.
J		4A93-44-R1	LATCH ASM	1
K		4A900-35	LADDER HOOK ASM	2
L		4A900-36	LADDER HOOK BASE ASM	2
M		4A900-30-004-R3	LADDER STOP	2

Hardware 1 of 2

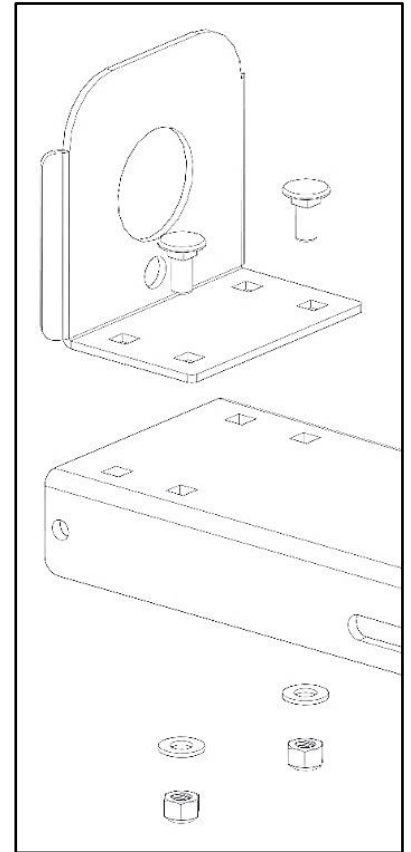
ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		90126A029	1/4" Flat Washer	20
2		92865A542	1/4"-20 x 1" Hex Head	11
3		95615A120	1/4"-20 Nyloc	9
4		90185A583	5/16"-18 x 1" Carriage Bolt	2
5		95615A160	5/16"-18 Nyloc	2
6		90126A030	5/16" Flat Washer	2
7		92865A624	3/8"-16 x 1" Hex Head	1
8		92865A622	3/8"-16 x 3/4" Hex Head	4
9		90126A031	3/8" Flat Washer	6
10		91102A760	3/8" Split Lock Washer	5

Hardware 2 of 2

ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
11		BH-821	SEALANT	1
12		90126A03x	5/16" Nylon Washer	4
13		40900-10-006	AXLE SCALE 1:2	2
14		Wheel Cap	Wheel Side Stopper	4
15		9960t26-Wheel	2-1/4" Wheel	4
16		Plastic Spacer-01	Nylon Spacer	1
17		97245A308	5/16" x 2.25" Pin	1
18		92418A225	BOW TIE COTTER PIN	1

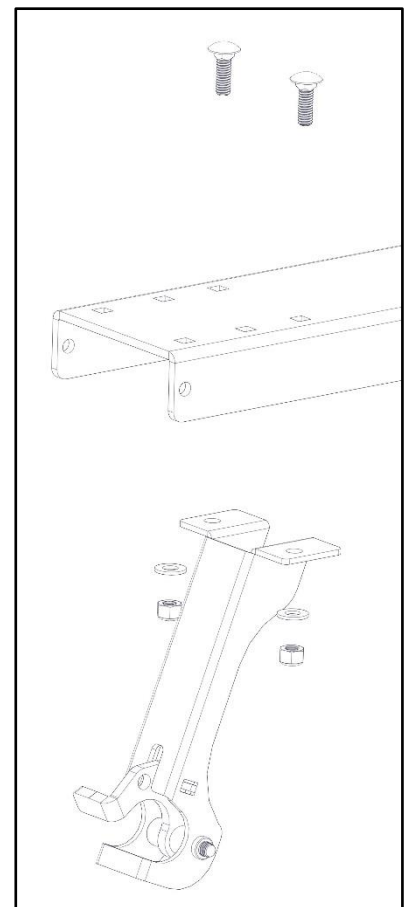
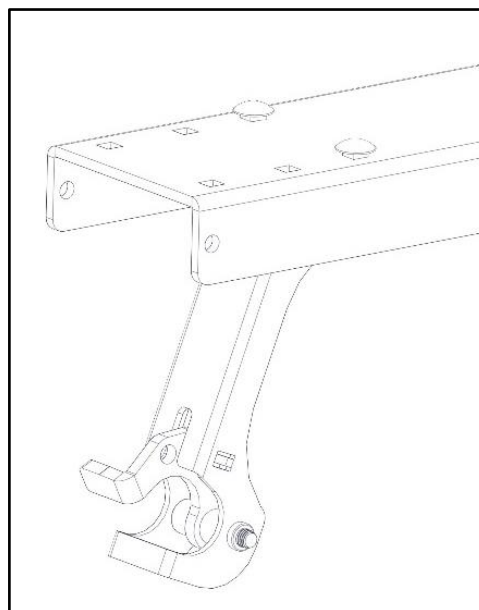
## Step 1 – Load Plates

- If installed, remove load plates at the end of each bow, opposite from the passenger side pan mechanism.
- Repeat on both bows.



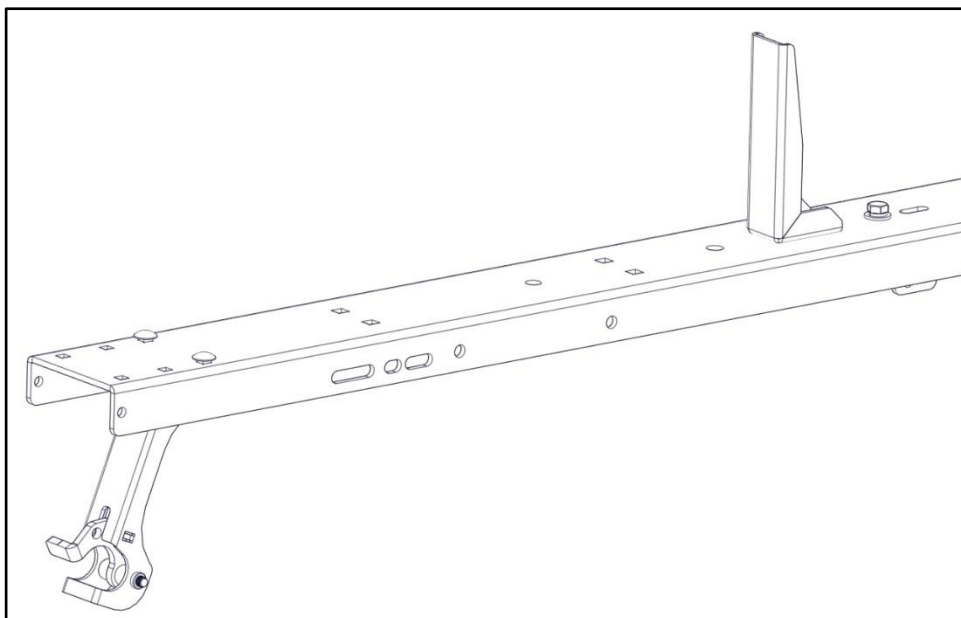
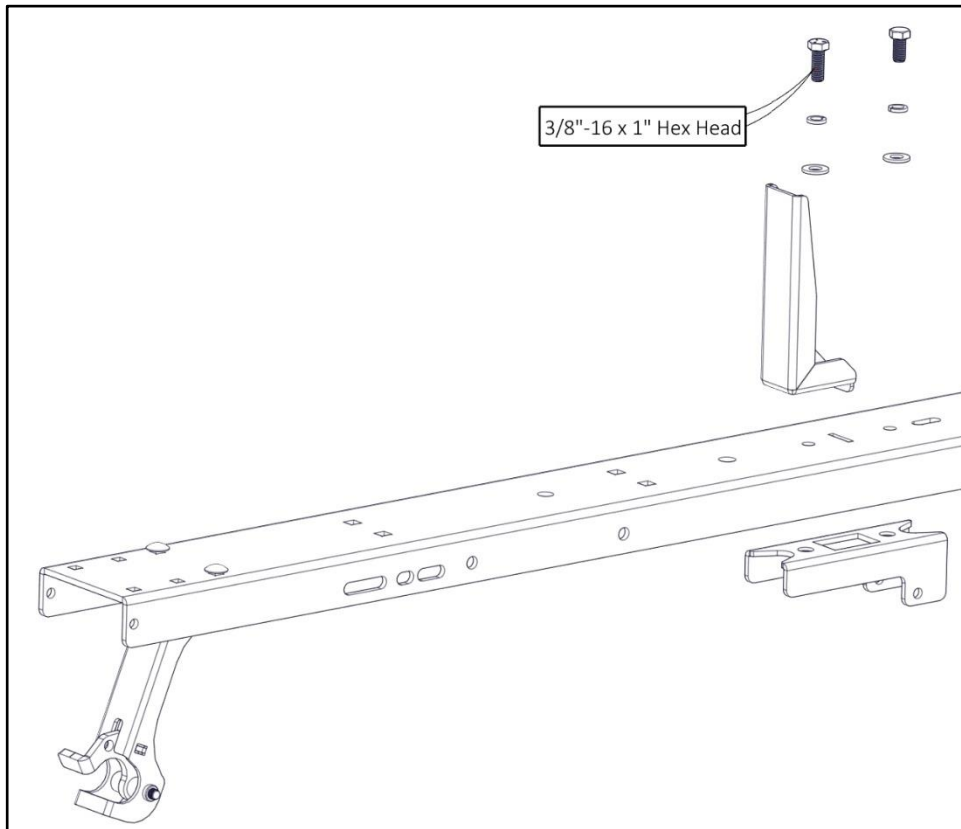
## Step 2 – Install Latch Assembly

- At the end of the rear bow, mount latch assembly in the squares shown.
- Use the 3<sup>rd</sup> set of square holes from the end of the bow.
- Mount using two 5/16" x 1" carriage bolts, two 5/16" flat washers and two 5/16" nyloc nuts.



### Step 3 – Rear Bow Damper Mount

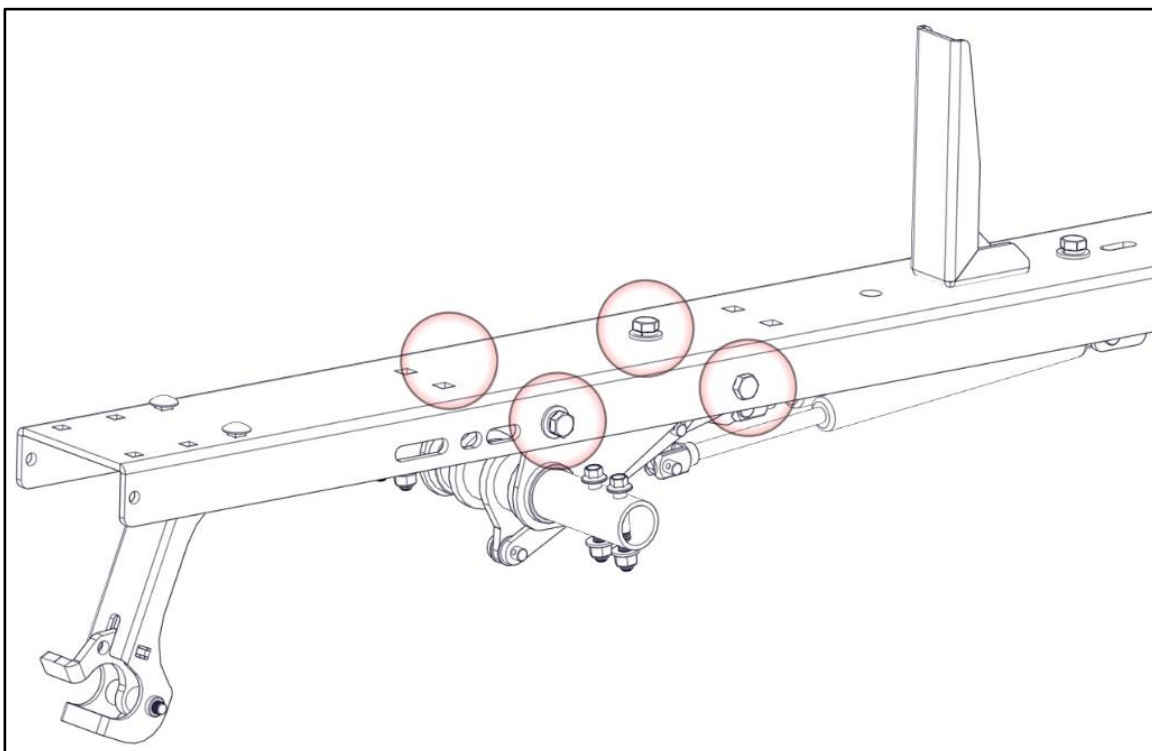
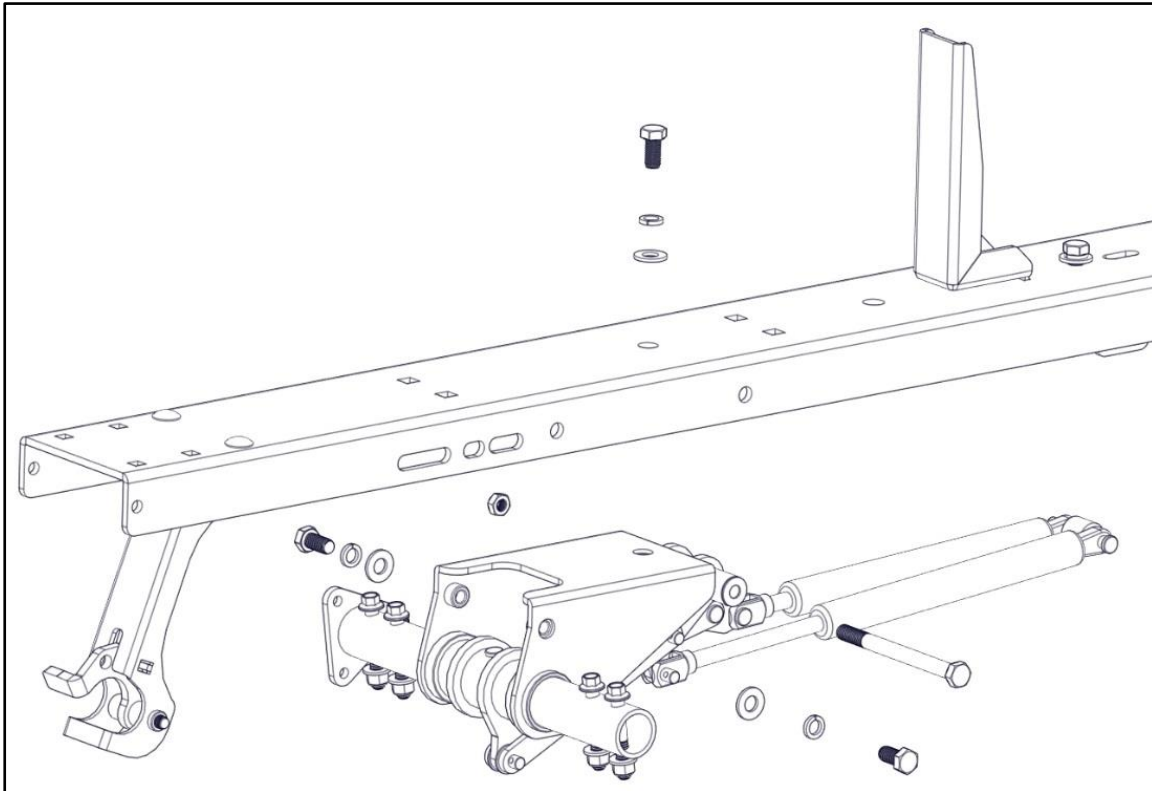
- Mount damper mount to the under side of the rear bow in the location shown.
- Mount the ladder stop on the top side of bow.
- When installing the ladder stop, be sure to use the longer, 3/8" x 1" hex head bolt. Use 3/8" lock washer and 3/8" flat washer.
- At the other location, fasten using 3/8" x 3/4" hex head bolt, 3/8" lock washer and 3/8" flat washer.
- Snug Tighten, but allow movement.





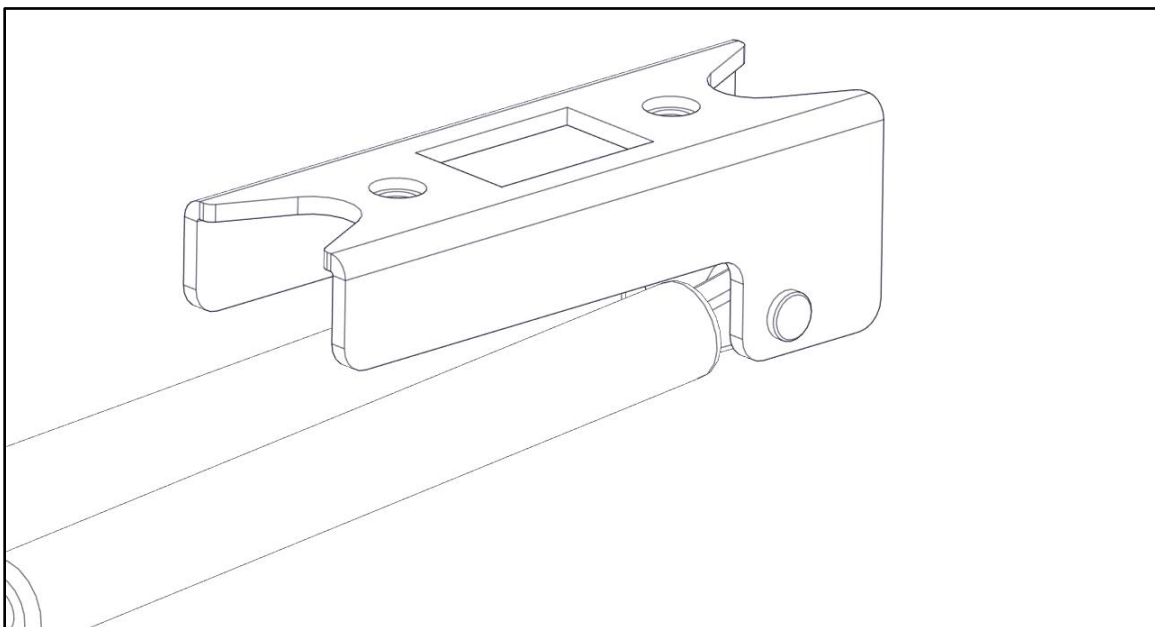
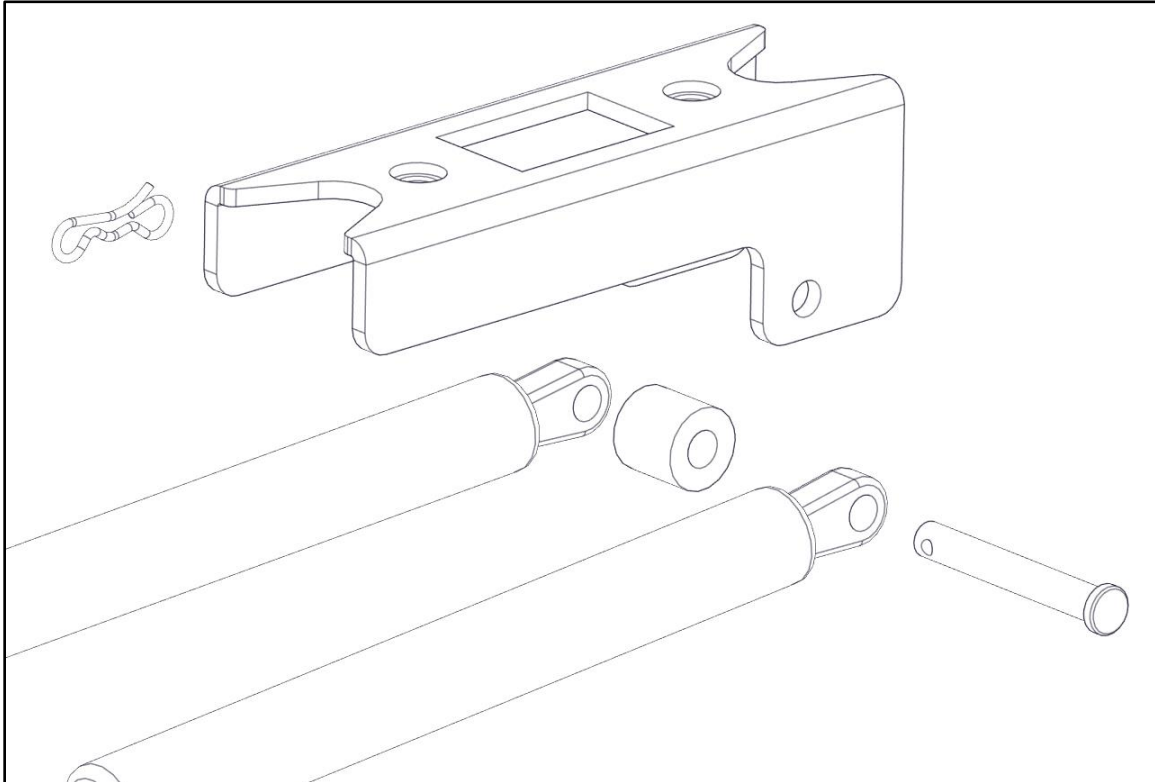
## Step 4 – Install Rear Bow Damper Mechanism

- Mount damper mechanism to the under side of the rear bow in the location shown.
- Use the existing hardware found in the damper mechanism to mount.
- While using the 3/8" x 4-1/2" hex head bolt. Be sure to not lose the pre-assembled nylon washers.
- Snug Tighten, but allow movement.



## Step 5 – Install Dampers

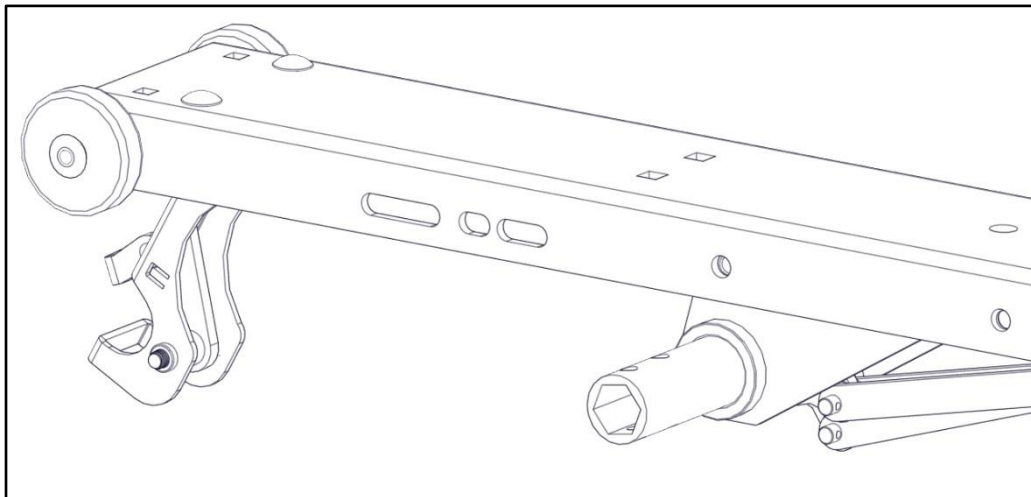
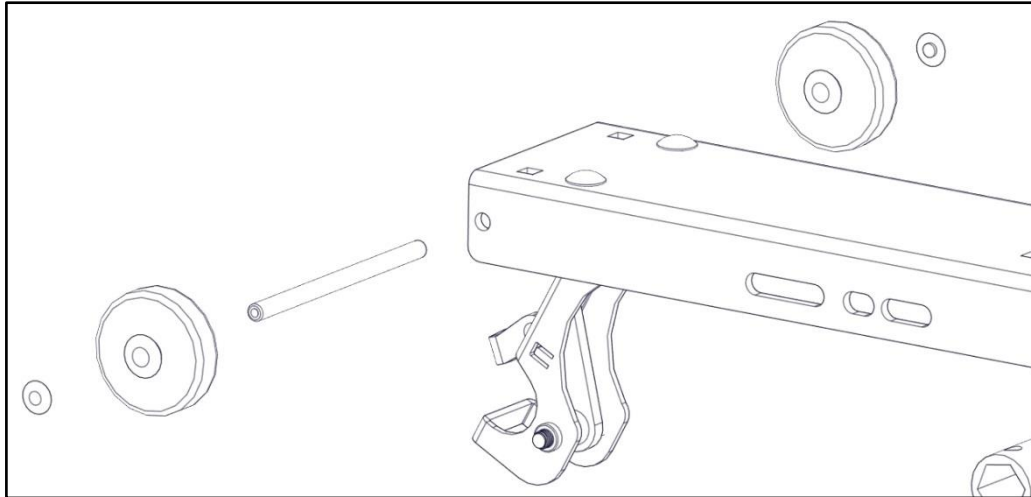
- Install dampers in orientation shown.
- Install the end of damper to the damper mount using 2-1/4" pin, cotter pin and plastic spacer in orientation shown. The plastic spacer goes in between two dampers.
- In some situations, one may need to wait until handle assembly is installed to attach both sides of the dampers. This is so you can use the handle to help adjust the damper.
- Use cotter pin to ensure dampers stay in place.
- Shown without crossmember for clarity.



## Step 6 – Wheel Assembly

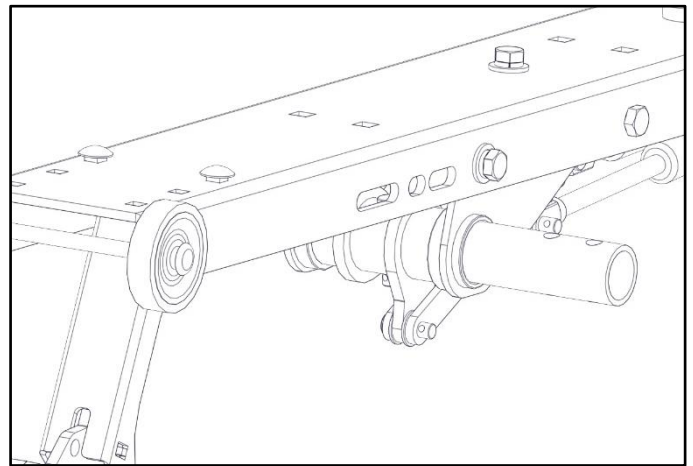
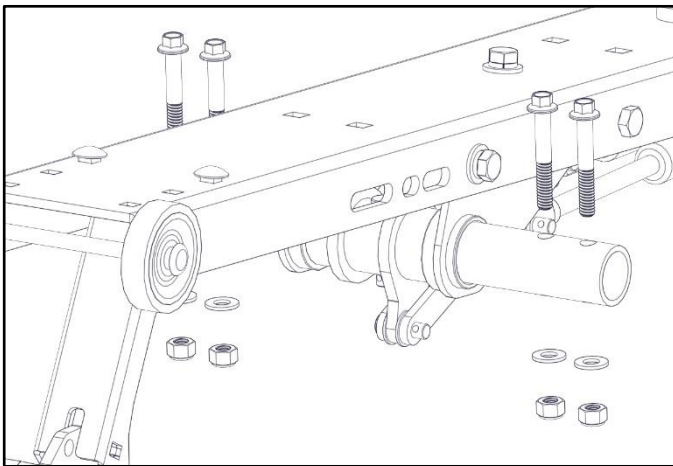
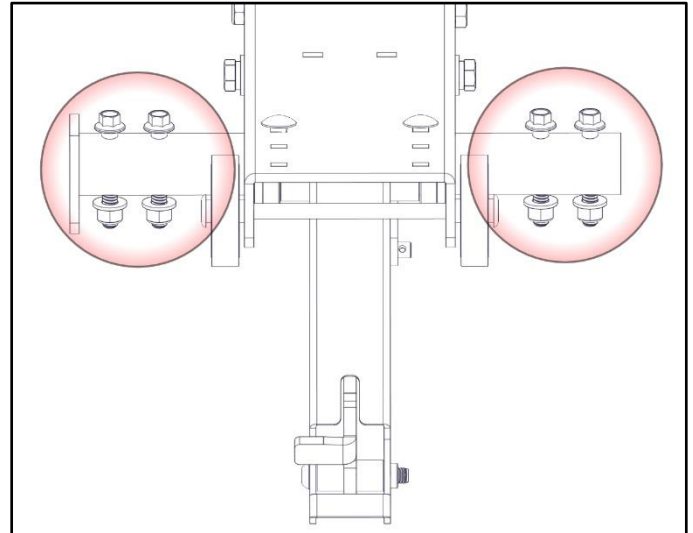
- Install wheel assembly. Slide wheel axle in the end of the rear bow. Place a wheel on each end of the axle. Cap the wheel with wheel stopper.

**\*\*While placing the pan on the next step, Be sure the wheel caps DO NOT come off\*\***

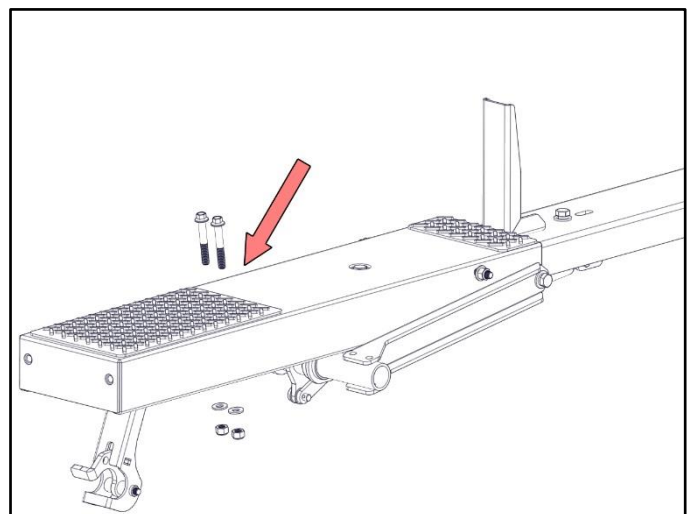
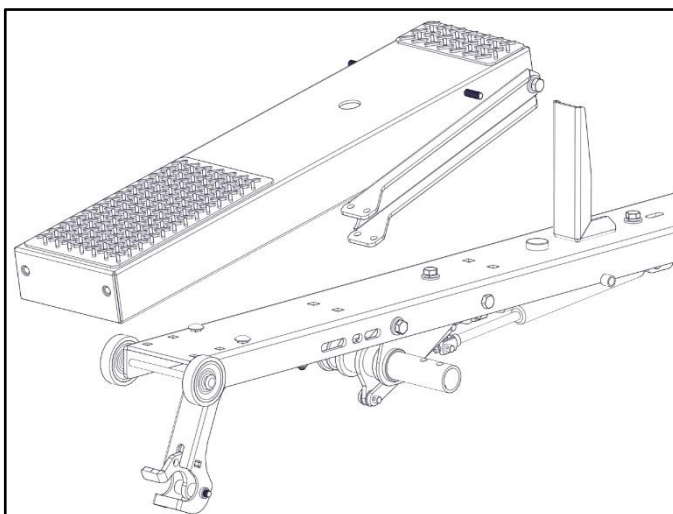


## Step 7 – Install Rear Pan

- Remove hardware from the installed damper mechanism from step 4.

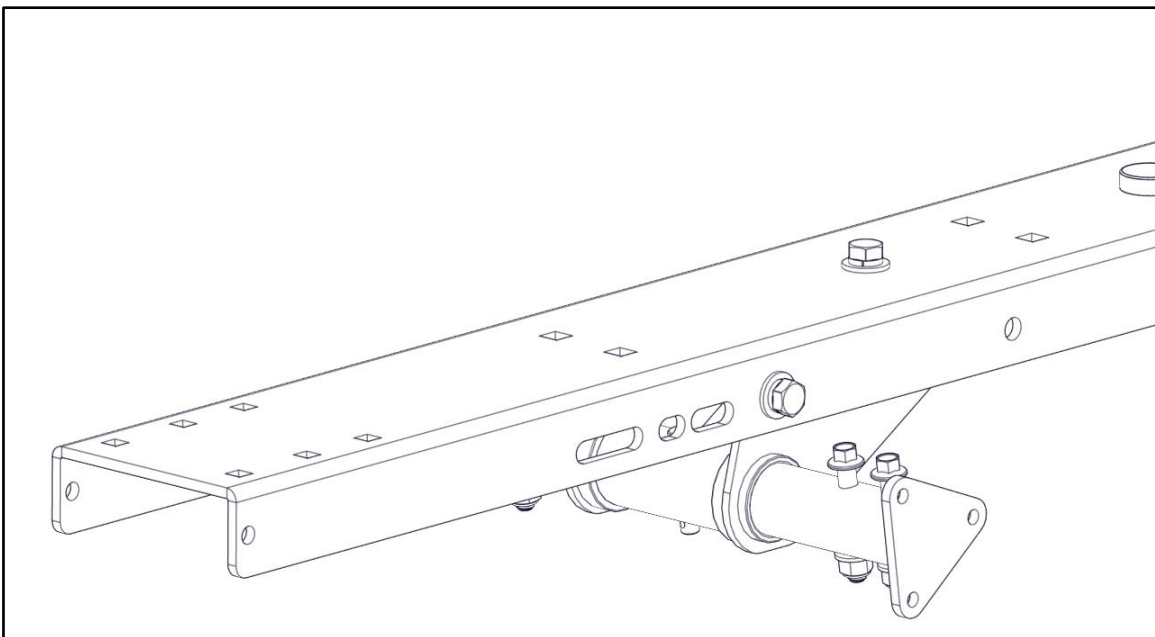
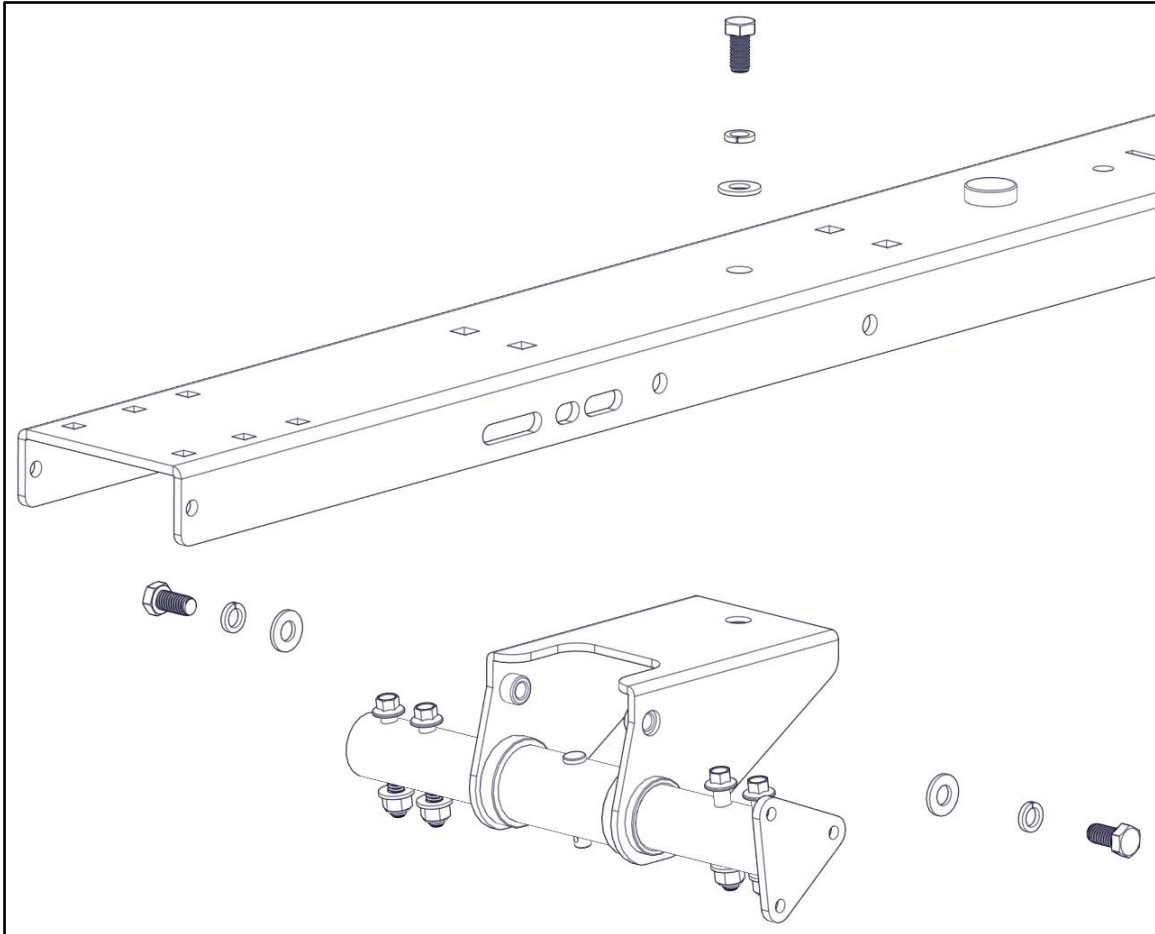


- Place rear pan on top of wheels and bow. Be sure the wheel caps DID NOT come off.
- Align the arms from the pan with the holes in the damper mechanism where the bolts were previously removed.
- Bolt together using hardware that was removed, only mount the front two bolts, leaving the holes to the rear as shown empty. The empty holes is for the handle installation.
- Snug Tighten, but allow movement.



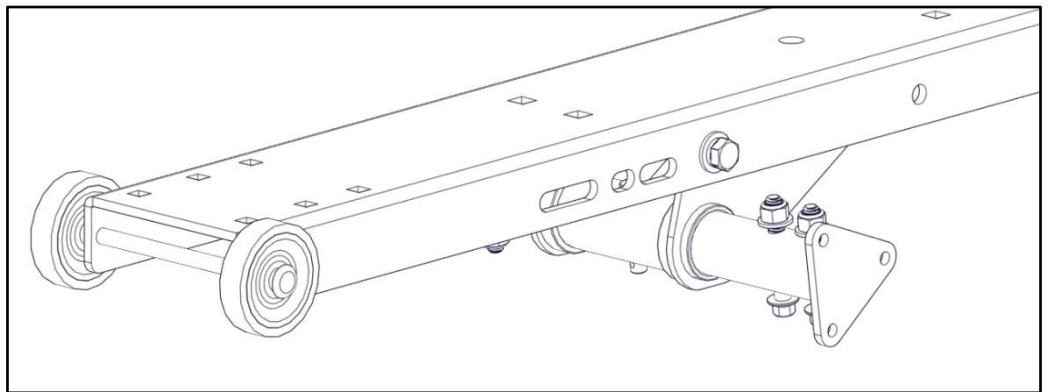
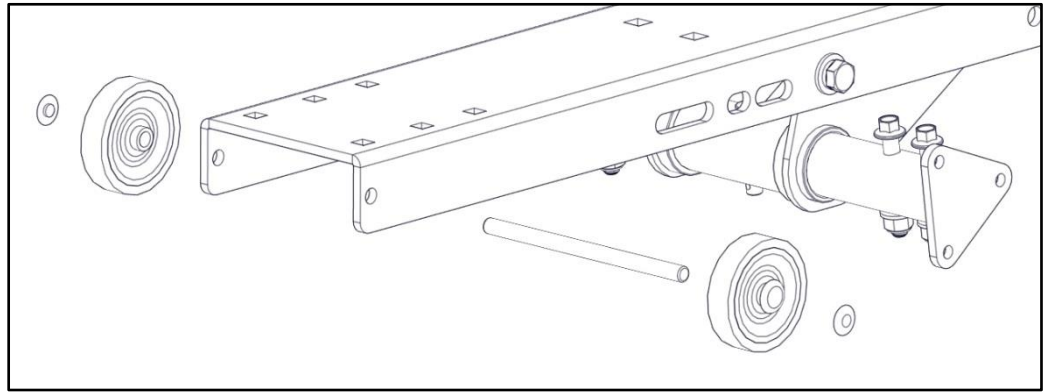
## Step 8 – Install Front Pan Mechanism

- Mount mechanism to the under side of the front bow in the location shown. This is the mechanism that DOES NOT have the dampers.
- Use the existing hardware found in the mechanism to mount.
- Snug Tighten, but allow movement.



## Step 9 – Wheel Assembly

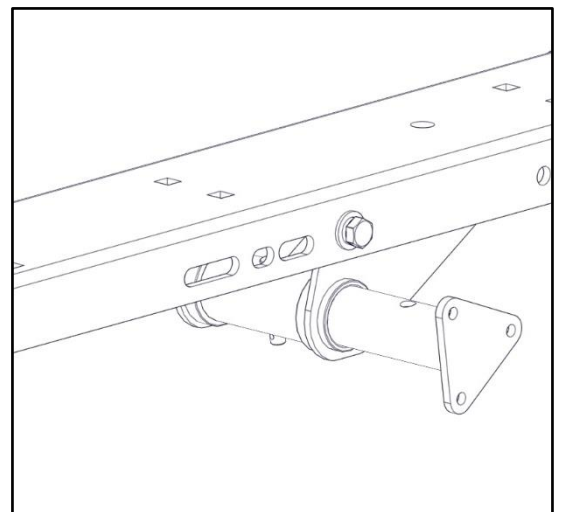
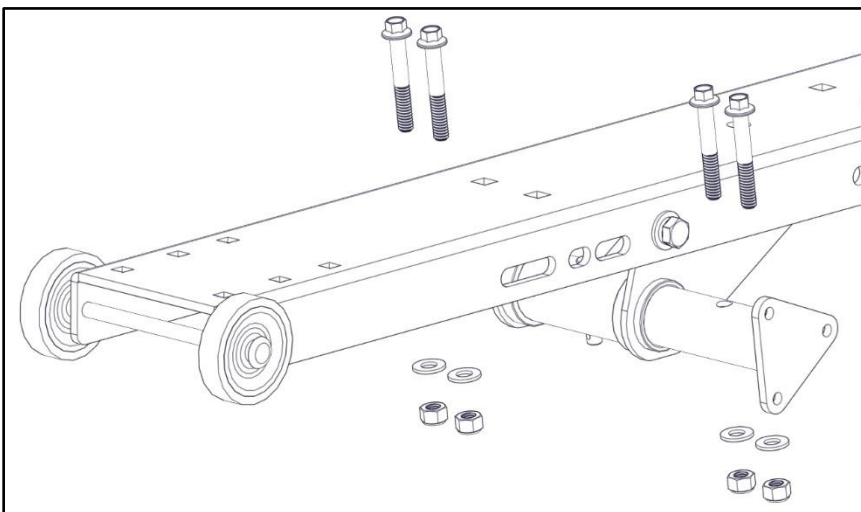
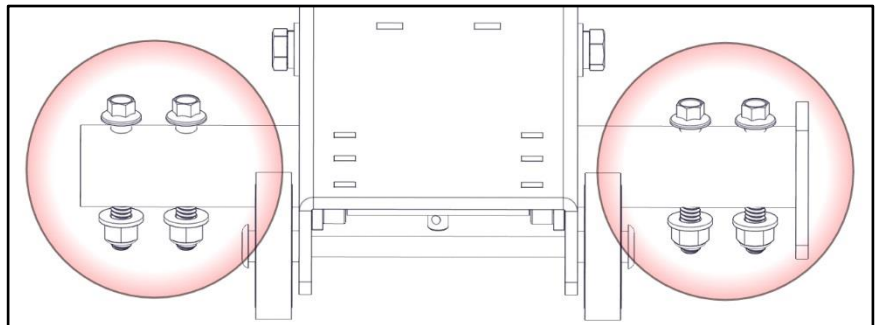
- Install wheel assembly. Slide wheel axle in the end of the front bow. Place a wheel on each end of the axle. Cap the wheel with wheel stopper.



**\*\*While placing the pan on the next step, Be sure the wheel caps DO NOT come off\*\***

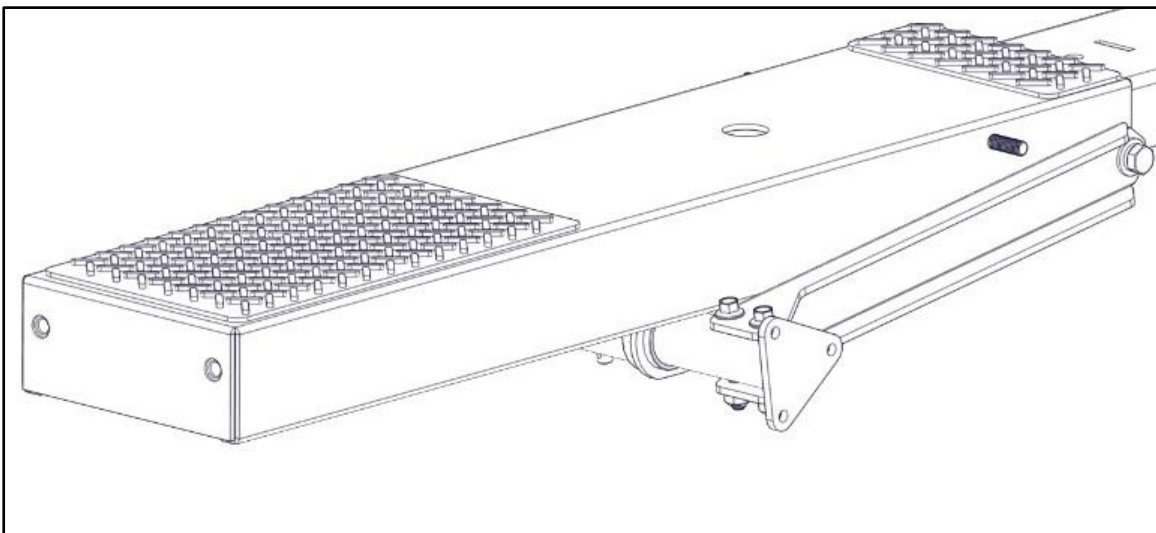
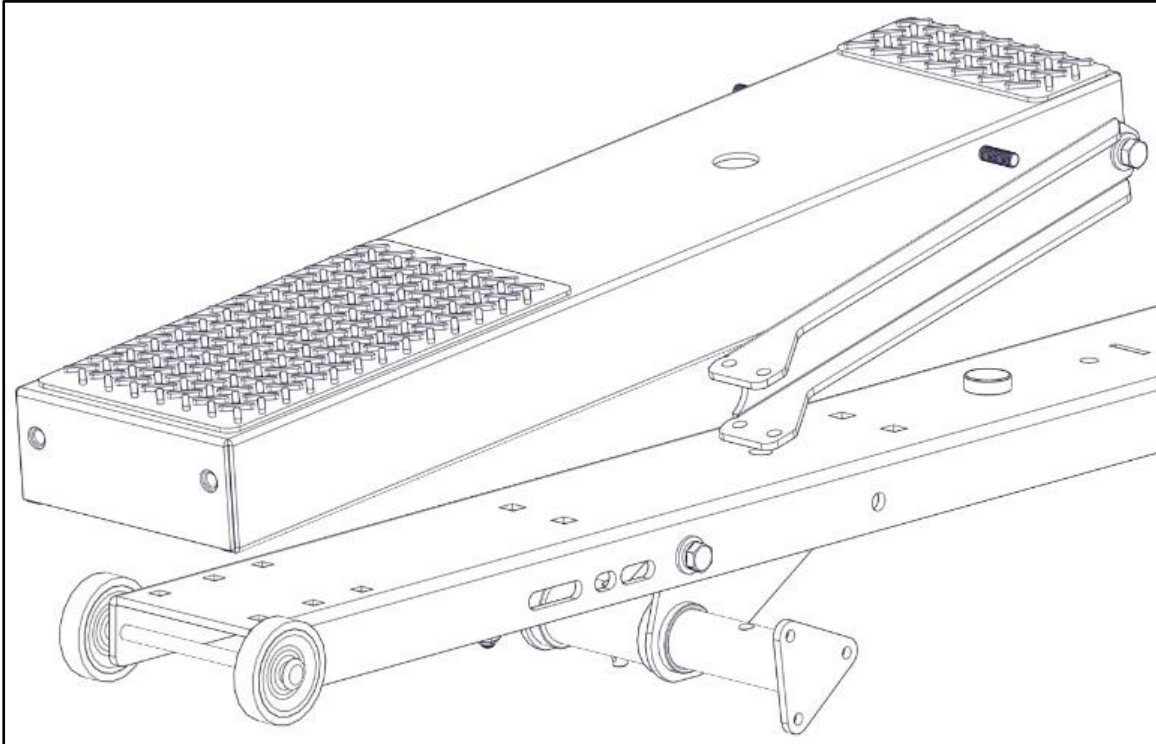
## Step 10 – Remove Bolts

- Remove hardware from the previously installed mechanism from step 8.



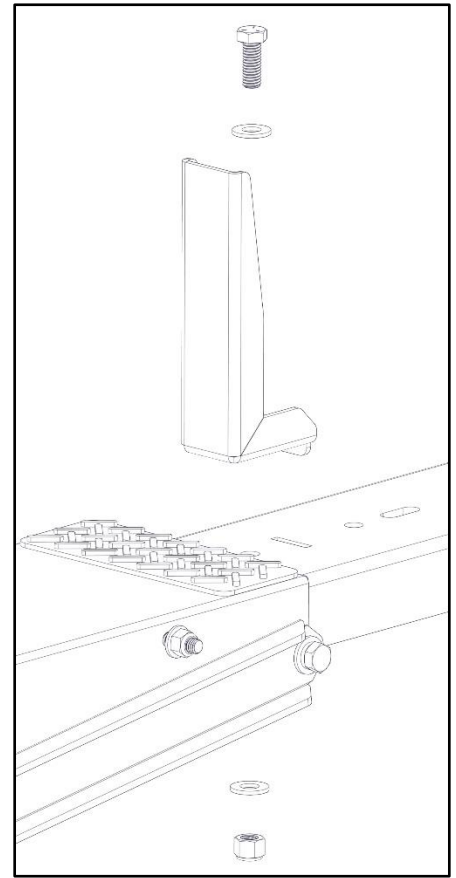
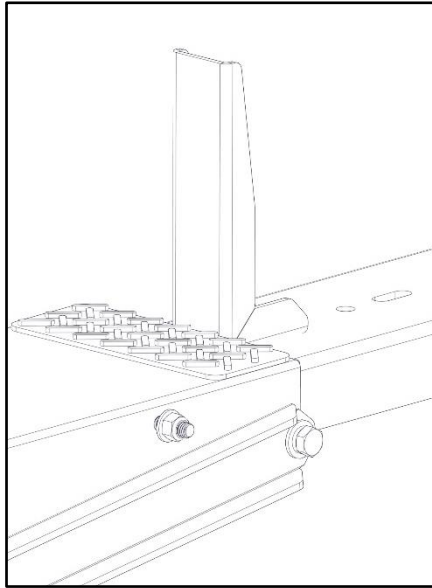
## Step 11 – Install Front Pan

- Place front pan on top of wheels and bow. Be sure the wheel caps DID NOT come off.
- Align the arms from the pan with the holes from the mechanism where the bolts were previously removed.
- Bolt together using hardware that was removed.
- Snug Tighten, but allow movement.



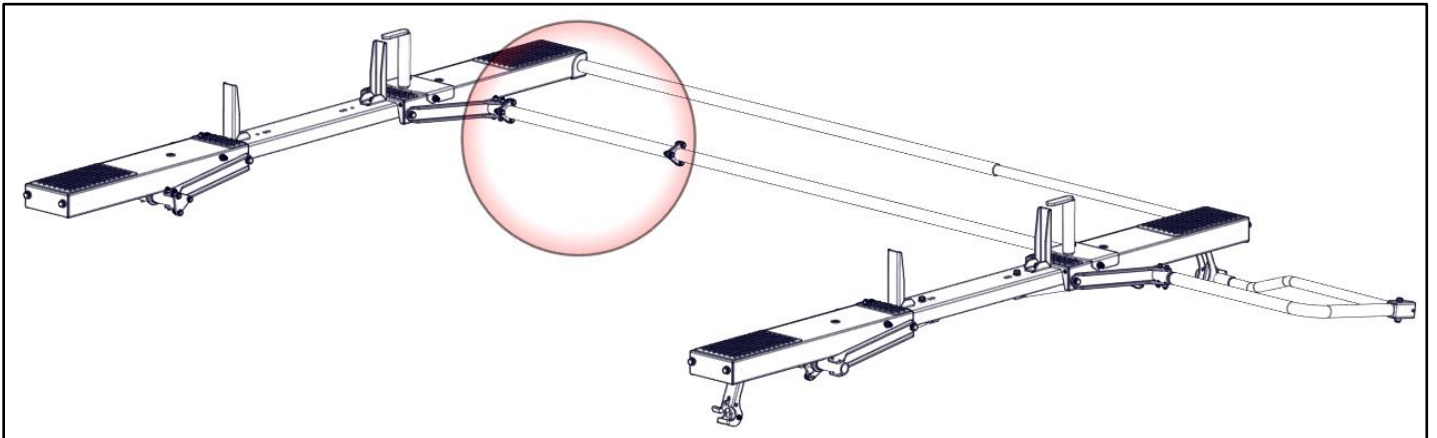
## Step 12 – Front Bow Ladder Stop

- Bolt ladder hook to the front bow in the orientation shown.
- Be sure to have the flange of the hook line up with the slot on the bow.
- TIGHTEN



## Step 13 – Determine if EXT is needed

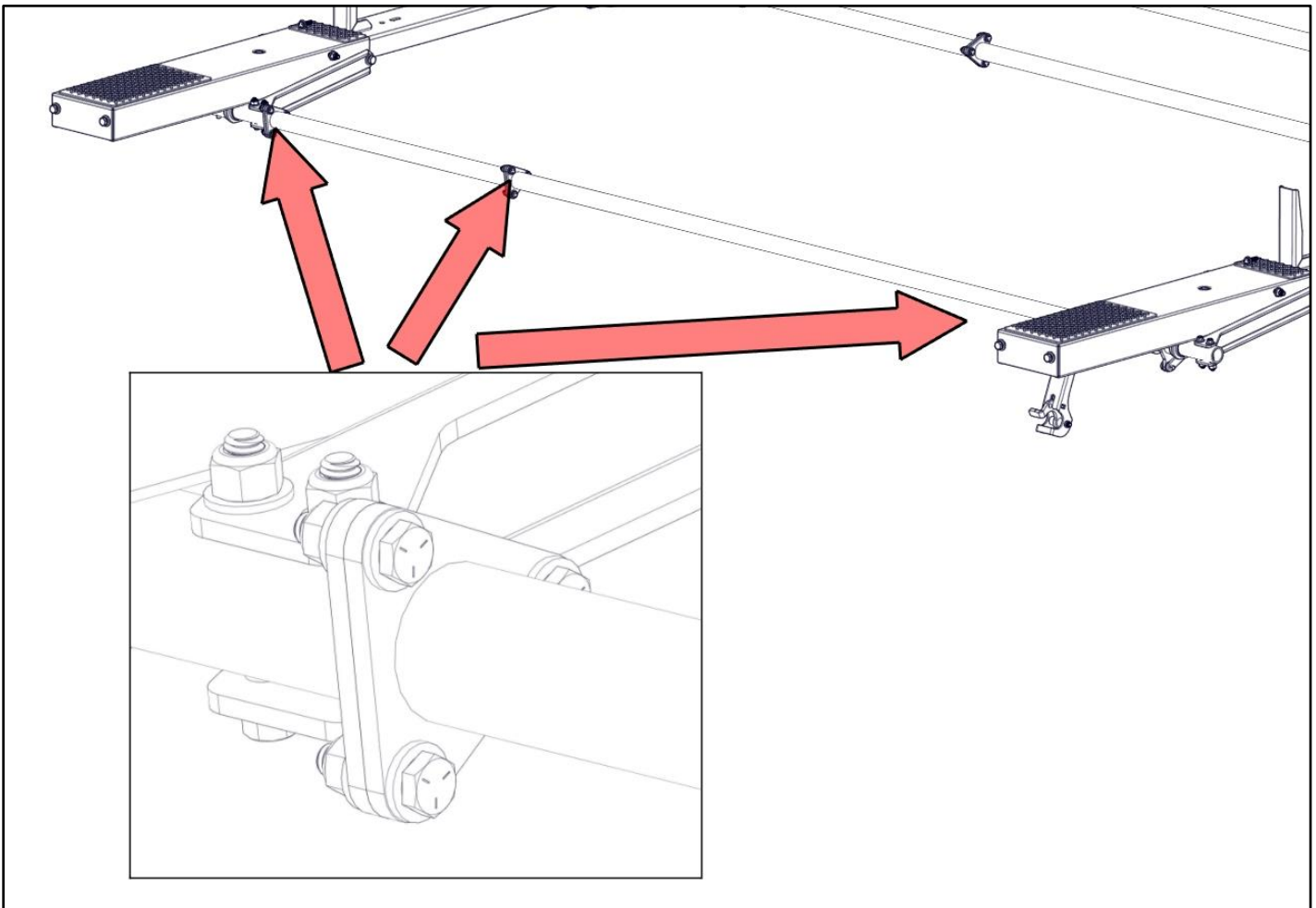
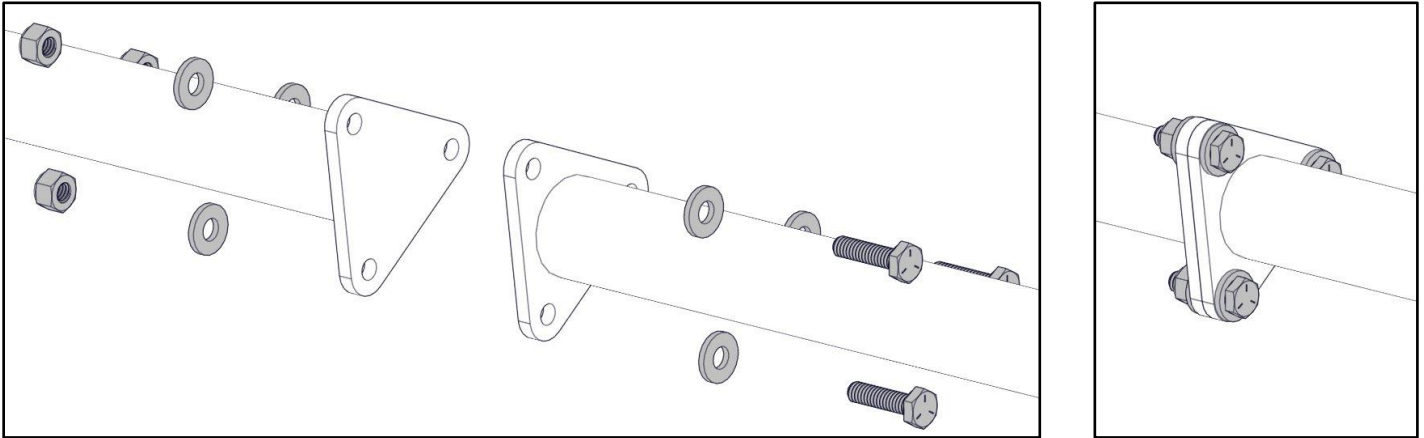
- Determine if EXT will be needed. Look at the passenger side of rack.





## Step 14 – Attach Torque Tube

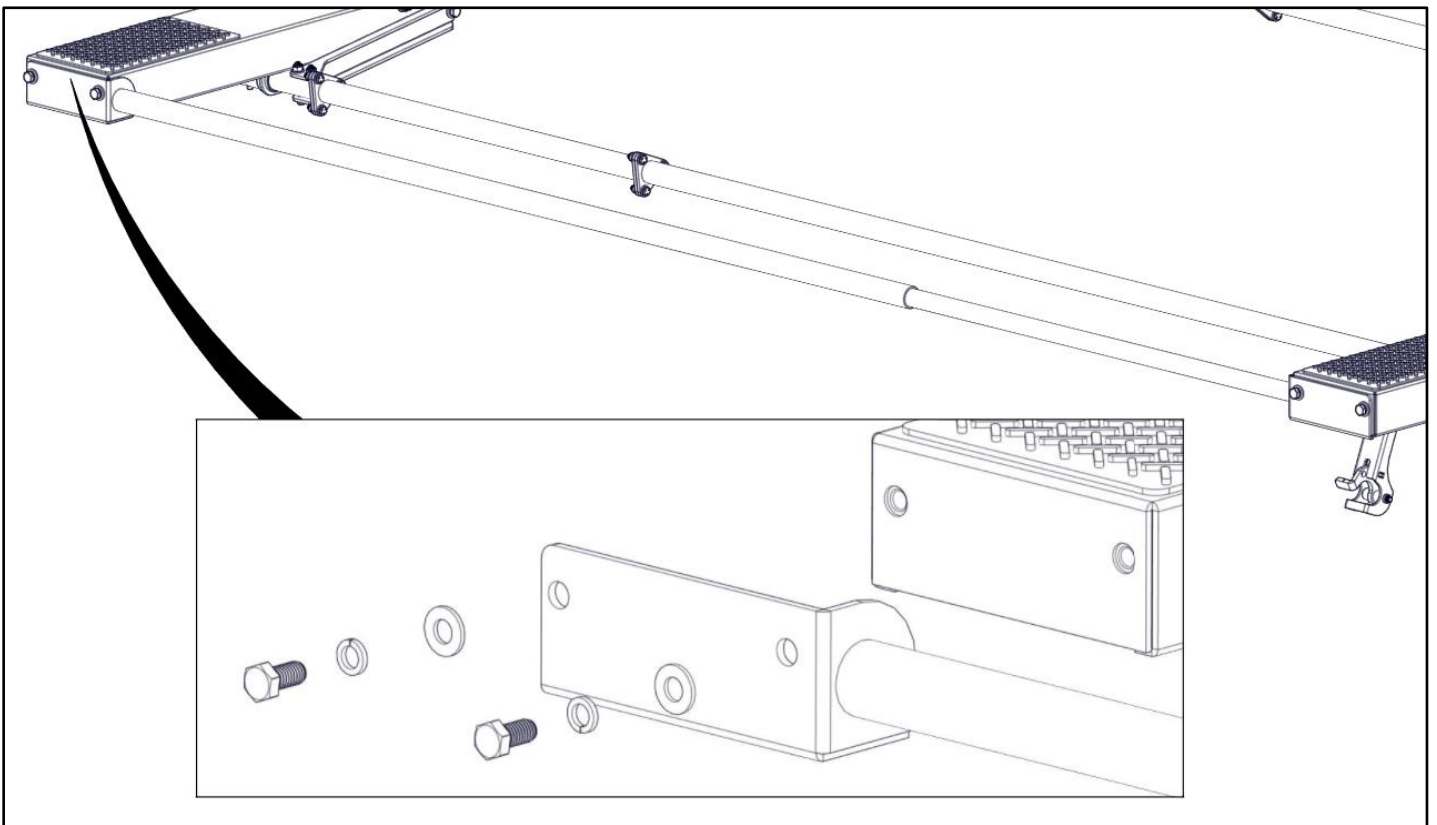
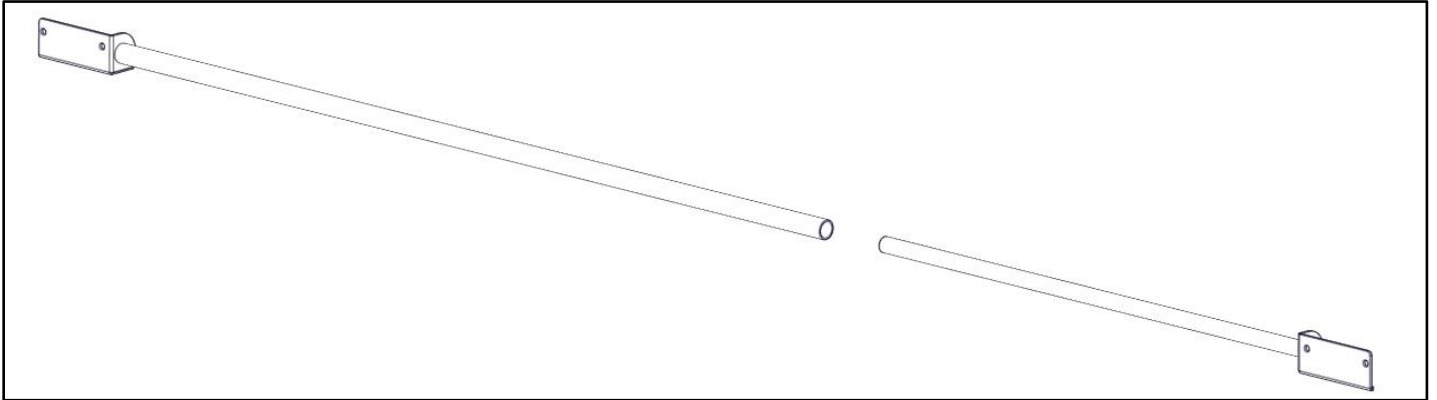
- Bolt torque tube to front and rear bow using 1/4"-20 x 1" hex head bolt, two 1/4" flat washers and 1/4"-20 nyloc nut at each location.
- If EXT is needed, follow same instructions to attach torque tube to EXT.
- TIGHTEN



**\*\*These pictures show using the EXT\*\***

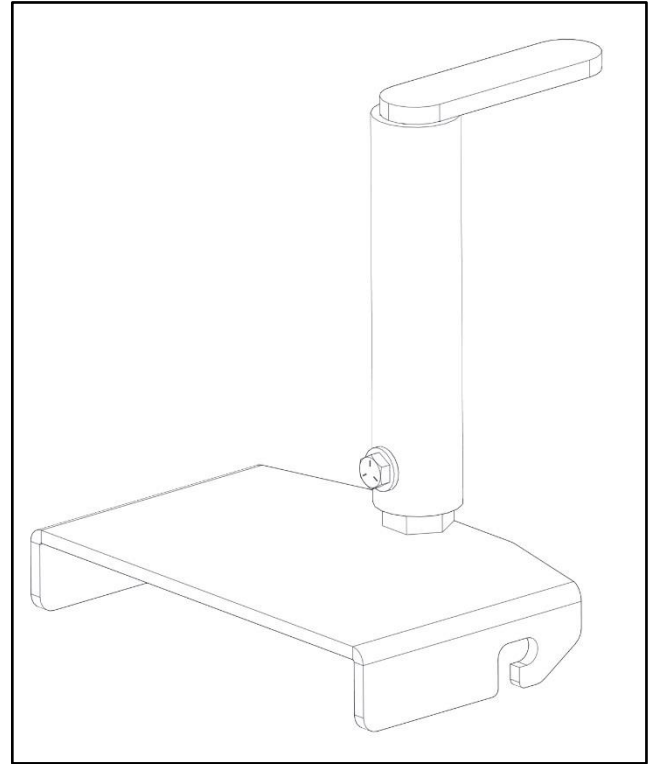
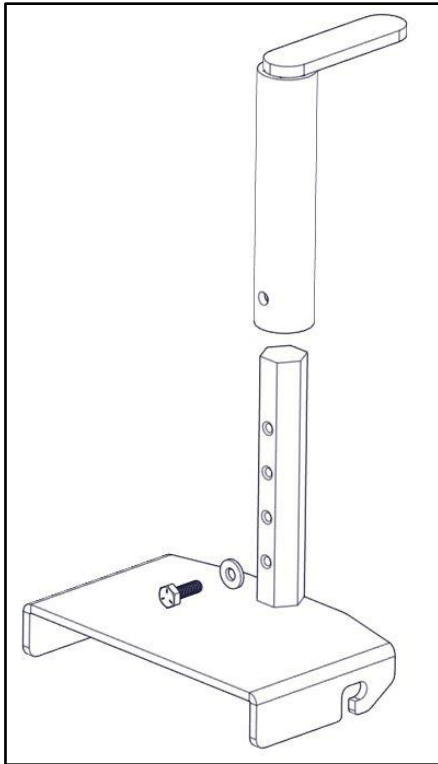
## Step 15 – Install End Tube

- Assemble end tube and place at the end of each bow.
- Bolt into place using 3/8" x 3/4" hex head, 3/8" lock washer and 3/8" flat washer.
- Repeat at front and rear bow.
- TIGHTEN



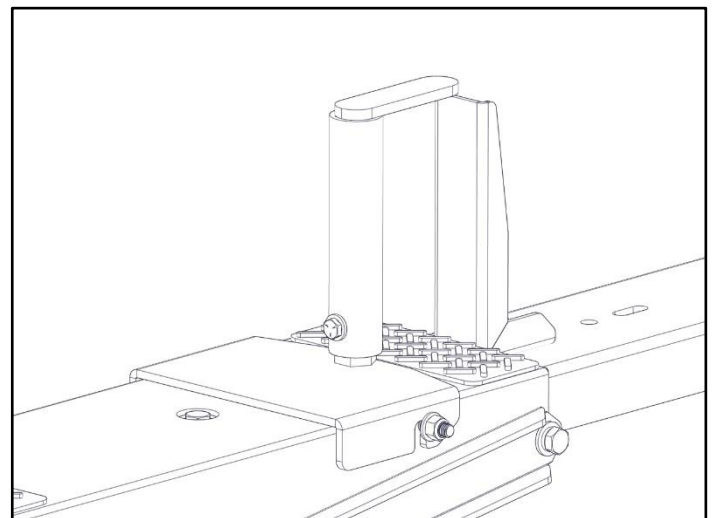
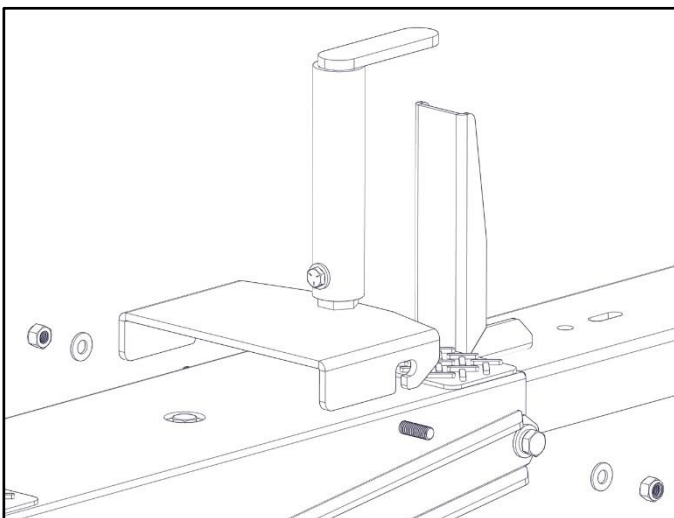
## Step 16 – Assemble Ladder Hooks

- Bolt ladder hook ASM to ladder hook weldment as shown.
- Use 1/4" x 3/4" hex head and 1/4" flat washer. This can be adjusted later.



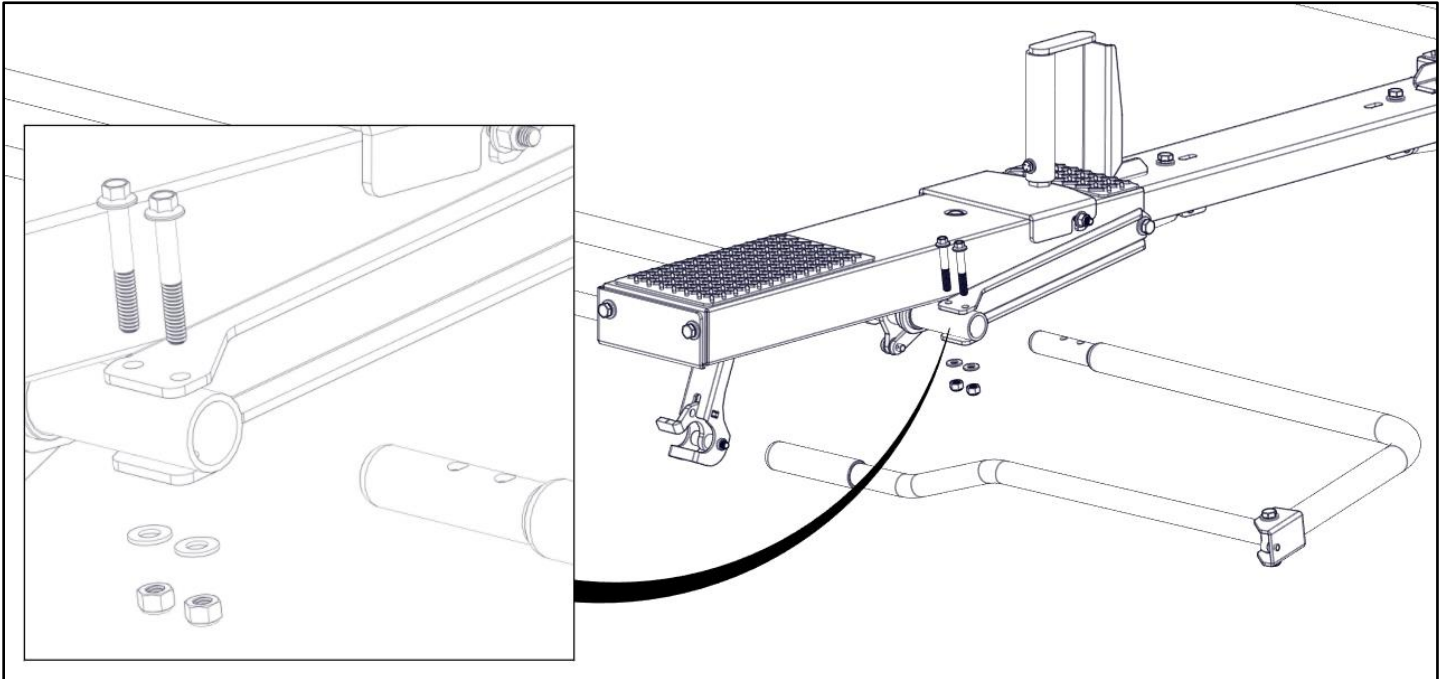
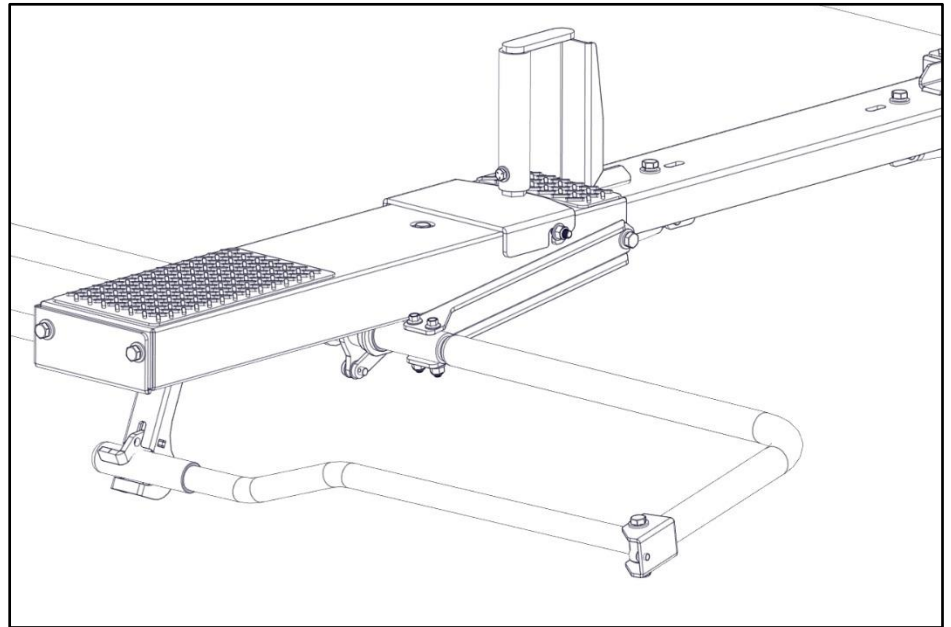
## Step 17 – Install Ladder Hooks

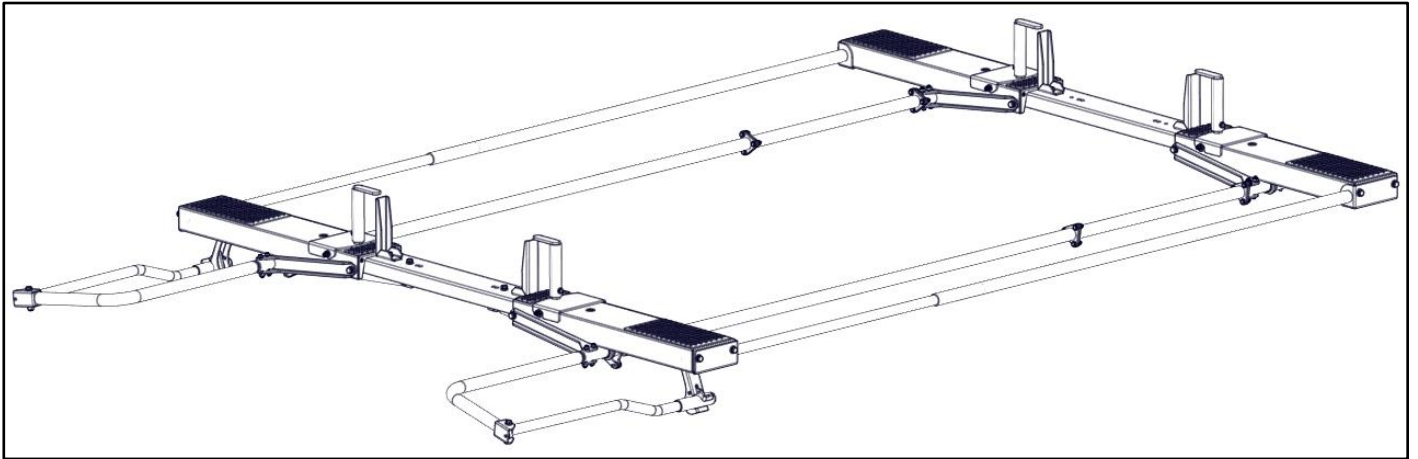
- Using the hardware and installed studs on the bows, loosen the nuts and slide ladder hook into place. Be sure the washers are on the outside of the ladder hook.
- TIGHTEN



## Step 18 – Install Handle

- Using the hardware removed in step 4, insert handle into swage on the rear bow.
- Be sure to place BH-821 sealant along swage joint.
- TIGHTEN





GO BACK AND TIGHTEN ALL BOLTS FROM PREVIOUS STEPS

BE SURE HARDWARE IN MOUNTING IS TIGHT.

YOUR INSTALLATION IS NOW COMPLETE