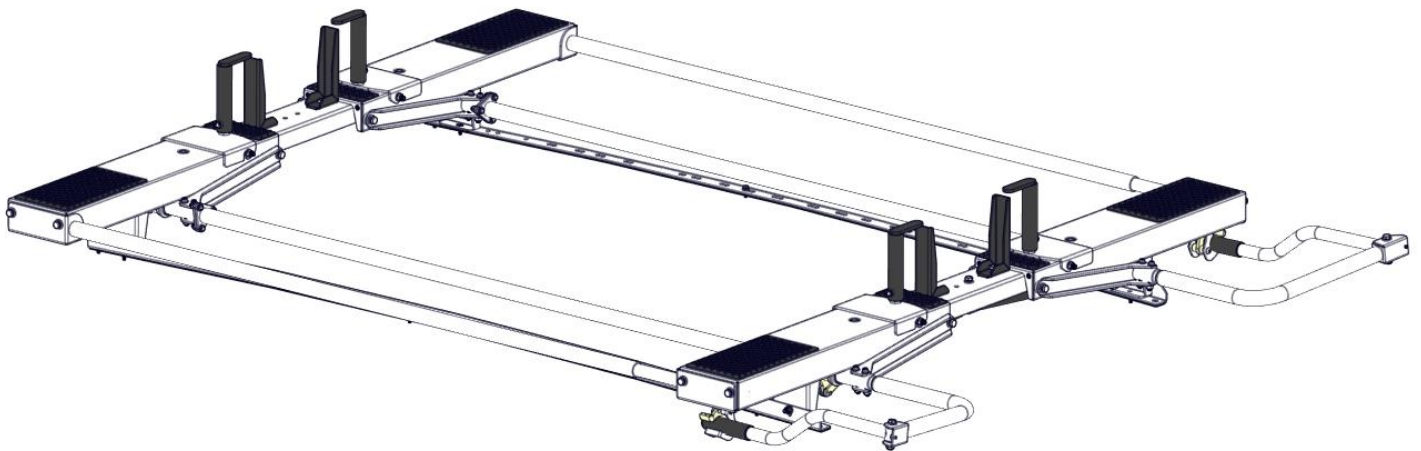

KARGO MASTER[®]

WE PUT EVERYTHING WITHIN REACH.

Installation Guide

4A98L-Rev 1



***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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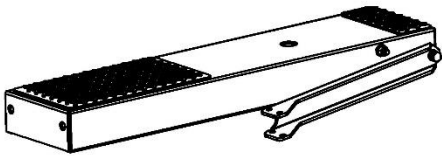
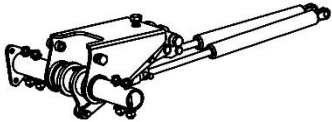
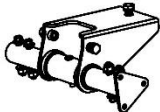
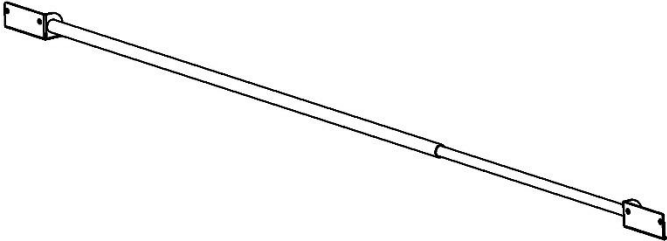
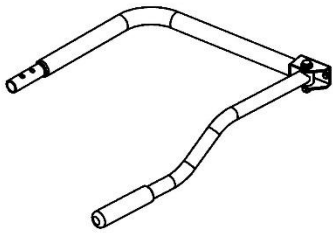
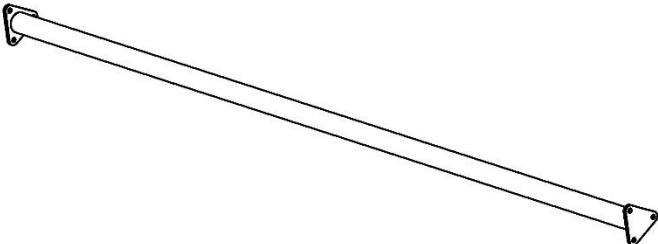

Step 15 Install Ladder Hook 17

Step 16 Install Handle 18

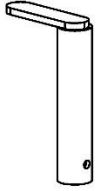
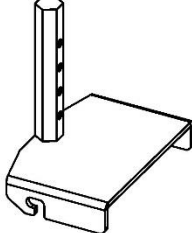

Before You Begin

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

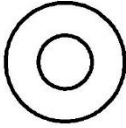



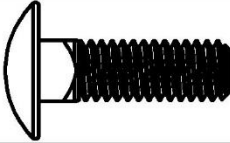

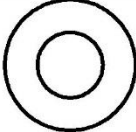

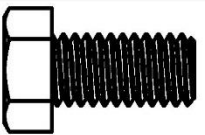
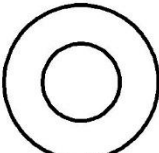
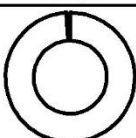

Parts

ITEM NO.		PART NUMBER	DESCRIPTION	QTY.
A		4A93L-10	ASSEMBLY, BOW, PAN, LADDER RACK, ALUMINUM	2
B		4A98L-11	MECHANISM, ASM, WITH DAMPERS	1
C		4A93L-12	MECHANISM, ASM	1
D		4A93L-7	END TUBE, ASM	1
E		4A98L-40	DS HANDLE, ASM	1
F		4A93L-50	WELDMENT, TORQUE TUBE, STEEL, 71.5" SPACING, LOW ROOF DROP DOWN	1
G		4A92L-44-R1	LATCH ASM	1

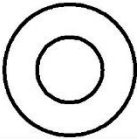


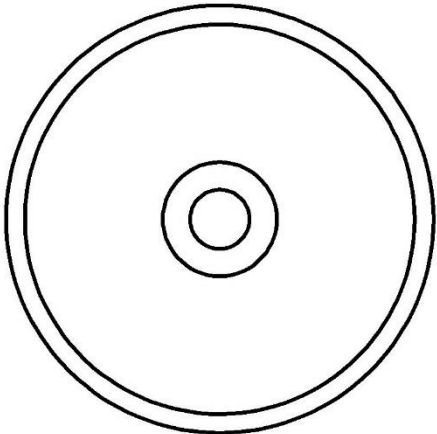

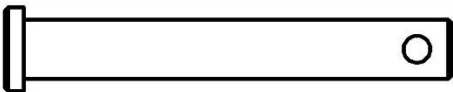
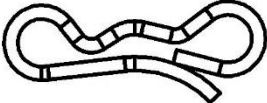

Parts Con't

ITEM NO.		PART NUMBER	DESCRIPTION	QTY.
H		4A900-35	LADDER HOOK ASM	2
J		4A900-36	LADDER HOOK BASE ASM	2
K		4A900-30-004-R3	LADDER STOP	2
		18-4A98L	HARDWARE	1

Hardware 1 of 2

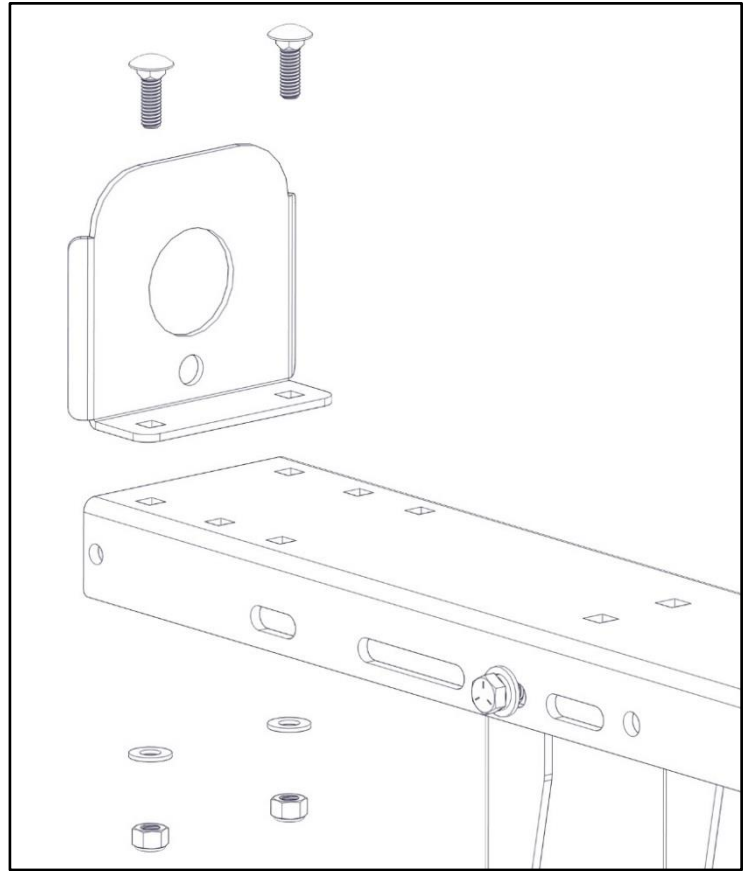
ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		90126A029	1/4" Flat Washer	14
2		92865A542	1/4"-20 x 1" Hex Head	8
3		91102A750	1/4" Lock Washer	2
4		95615A120	1/4"-20 Nyloc	6
5		90185A583	5/16"-18 x 1" Carriage Bolt	2
6		95615A160	5/16"-18 Nyloc	2
7		90126A030	5/16" Flat Washer	2
8		92865A624	3/8"-16 x 1" Hex Head	1
9		92865A622	3/8"-16 x 3/4" Hex Head	4
10		90126A031	3/8" Flat Washer	6
11		91102A760	3/8" Split Lock Washer	4
12		95615A140	3/8" Nyloc Nut	1

Hardware 2 of 2

ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
13		90126A03x	5/16" Nylon Washer	4
14		40900-10-006	AXLE SCALE 1:2	2
15		Wheel Cap	Wheel Side Stopper	4
16		9960t26-Wheel	2-1/4" Wheel	4
17		Plastic Spacer-01	Nylon Spacer	1
18		97245A308	5/16" x 2.25" Pin	1
19		92418A225	BOW TIE COTTER PIN	1
		BH-821	SEALANT	1

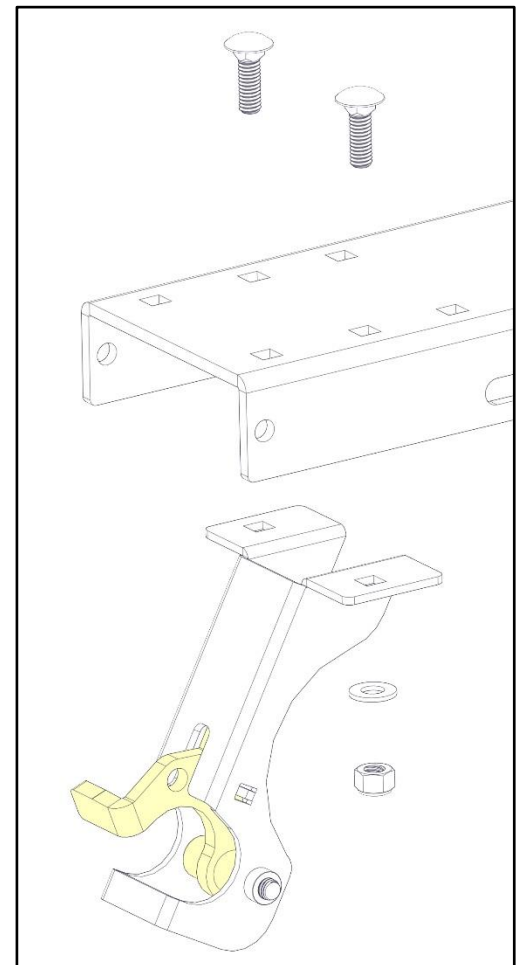
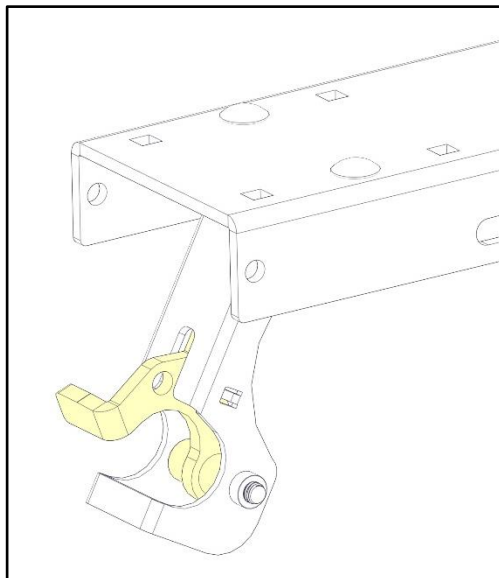
Step 1 – Remove Load Plates

- If installed, remove load plates on the drivers side, at the end of each bow.
- Repeat on both front and rear bows.



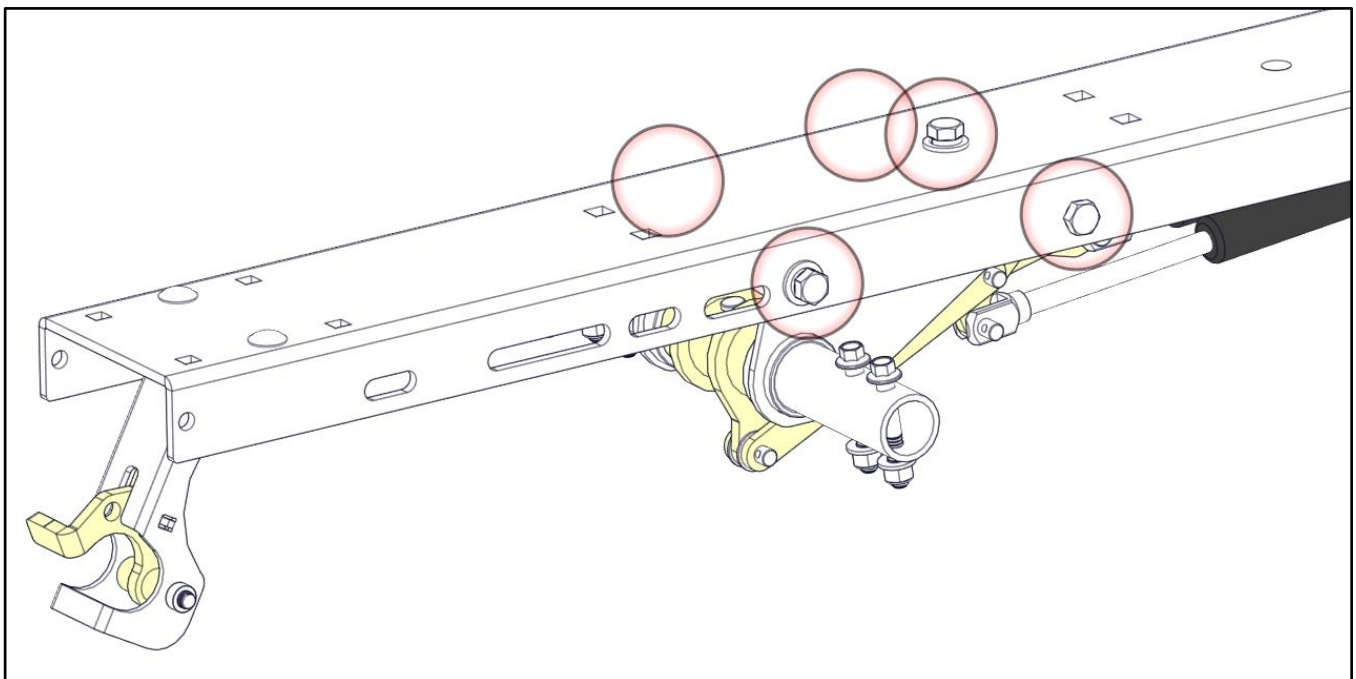
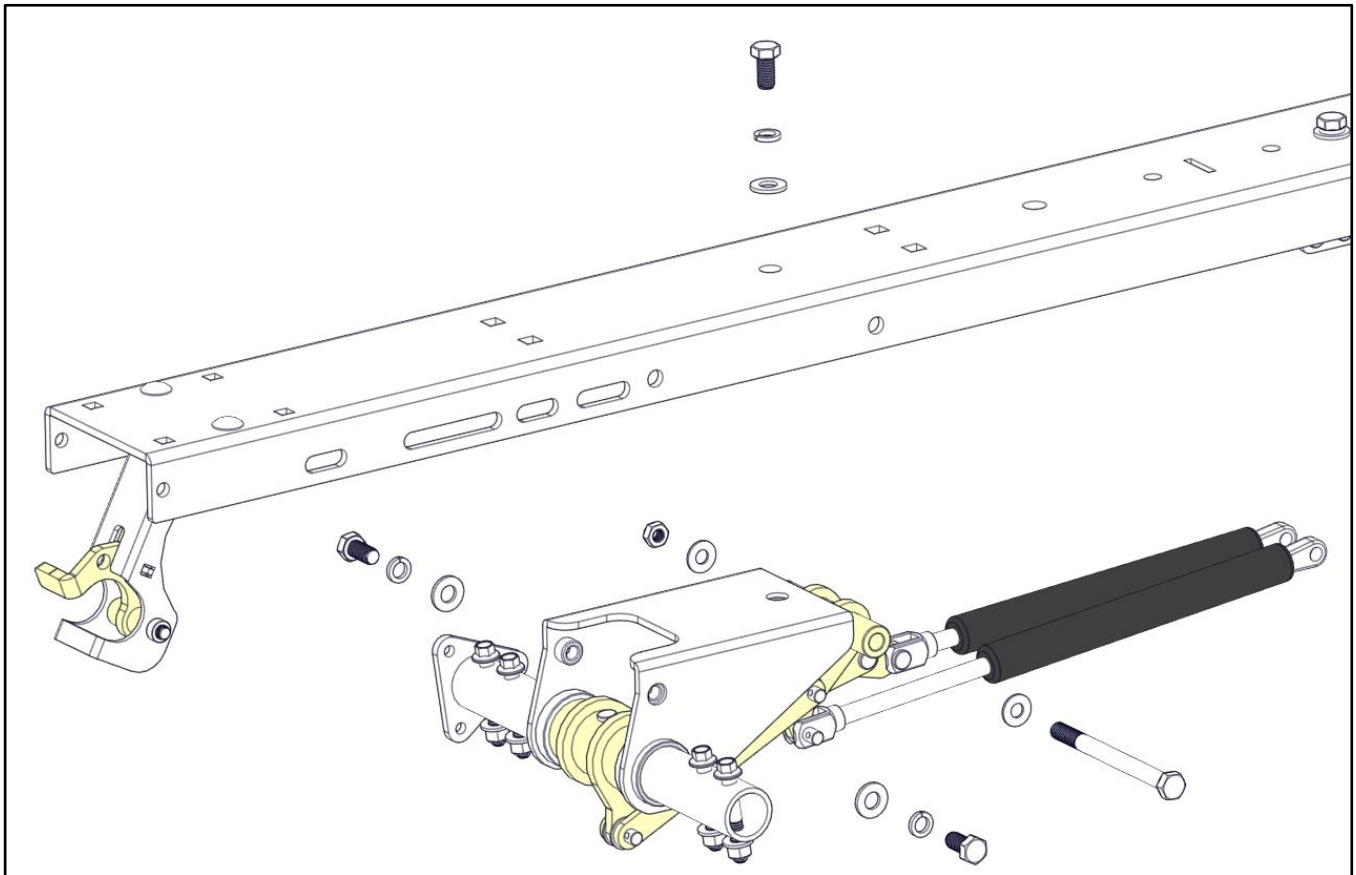
Step 2 – Install Latch Assembly

- At the open end of the rear bow, mount latch assembly in the squares shown.
- Use the 2nd 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.



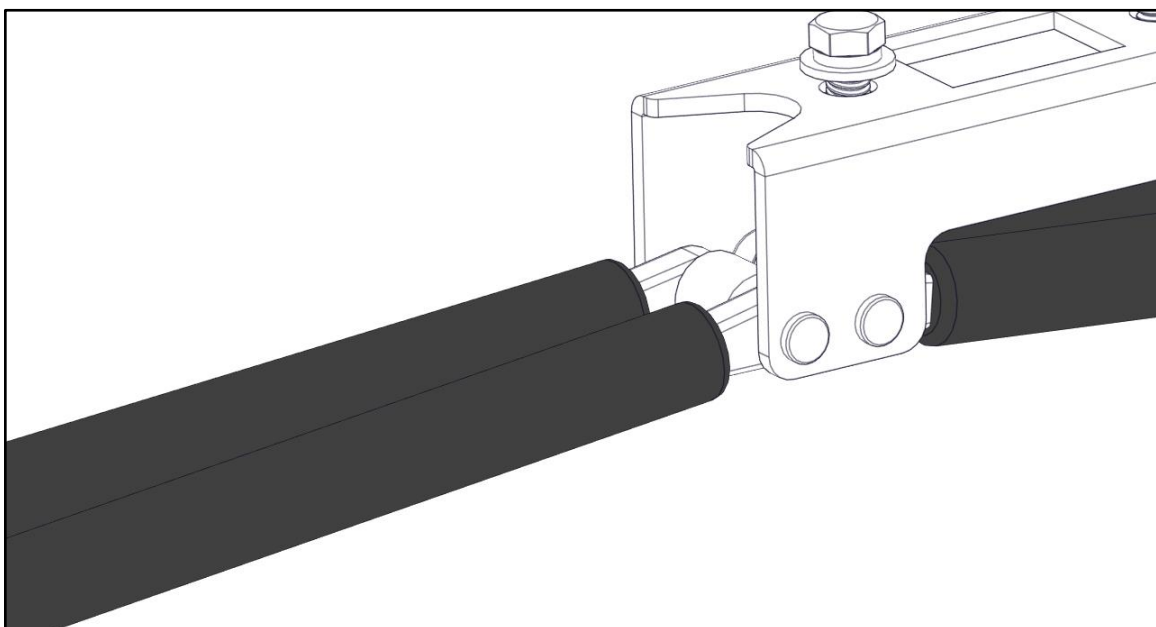
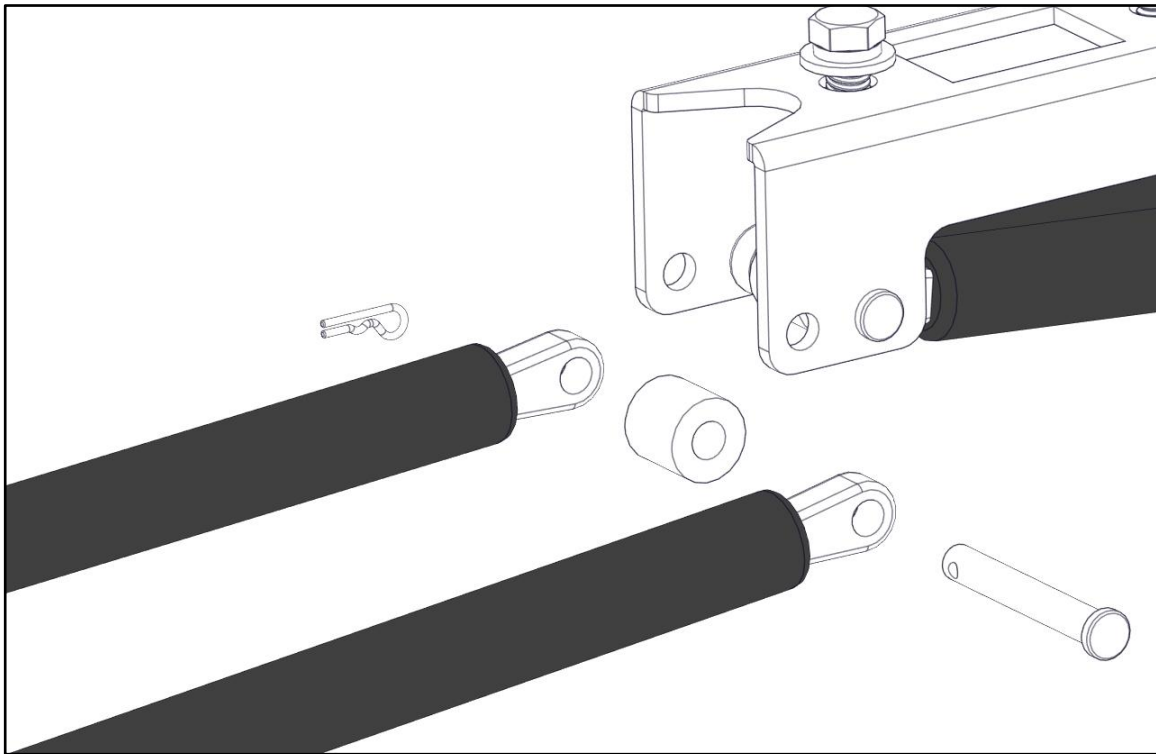
Step 3 – Install Rear Bow Damper Mechanism

- 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 nylon washers. The nylon washers go on the inside of the bow.
- Snug Tighten, but allow movement.



Step 4 – Install Dampers

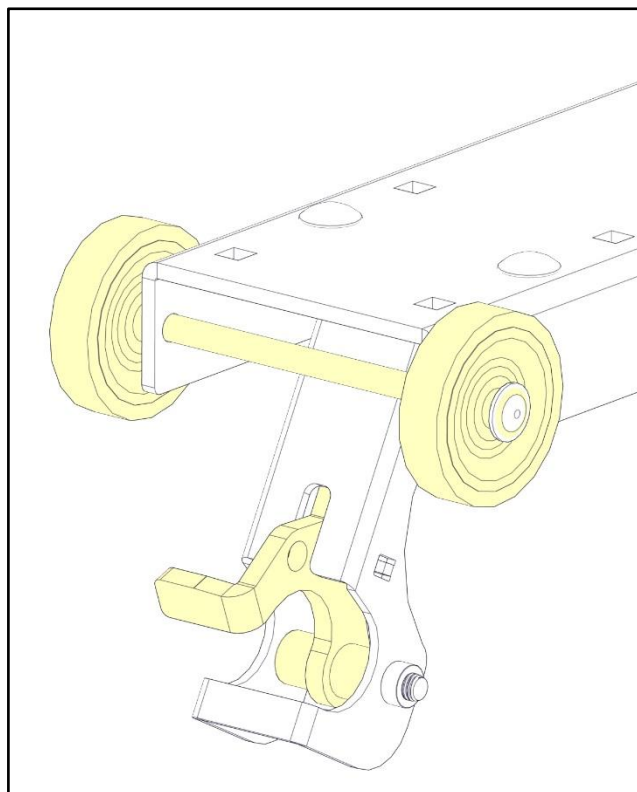
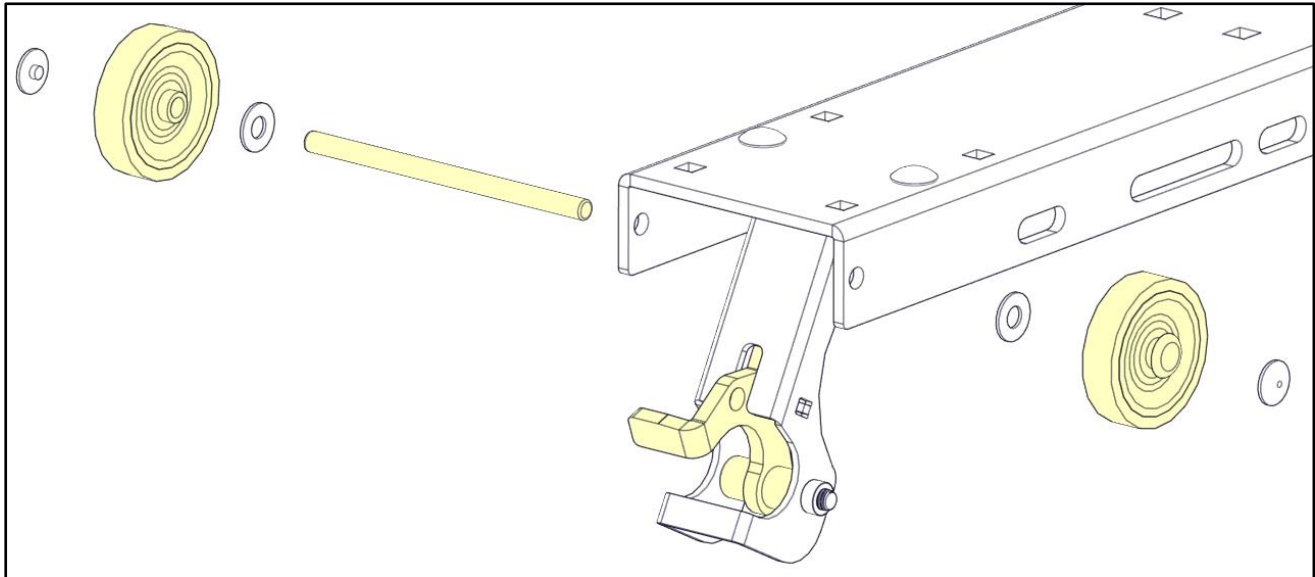
- Install dampers underneath the rear bow using the existing mount.
- Attach the end of damper to the existing mount using 2-1/4" pin, cotter pin and plastic spacer in orientation shown. The plastic spacer goes in between two dampers.
- In some situations, one may need to wait until handle assembly is installed to attach both ends of both dampers. This is so you can use the handle to help compress the damper.
- Shown without cross bow for clarity.



Step 5 – Install Rear Wheels

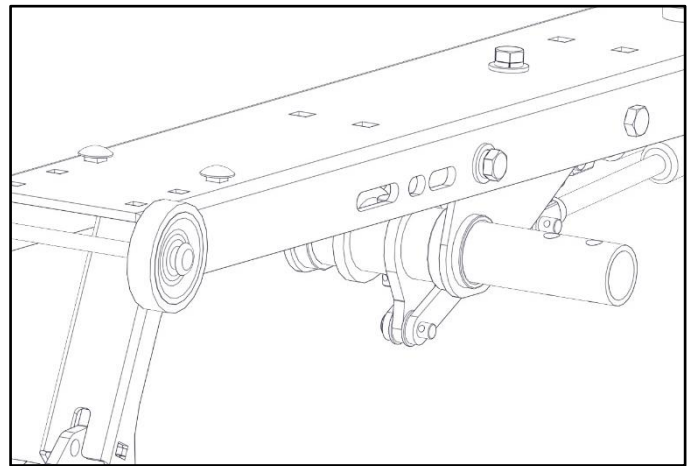
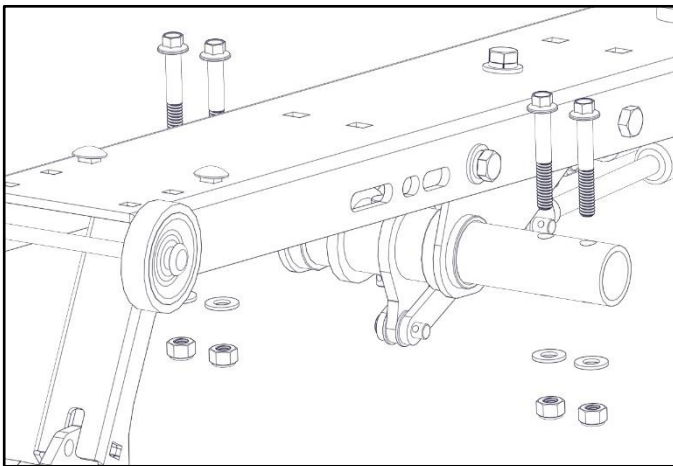
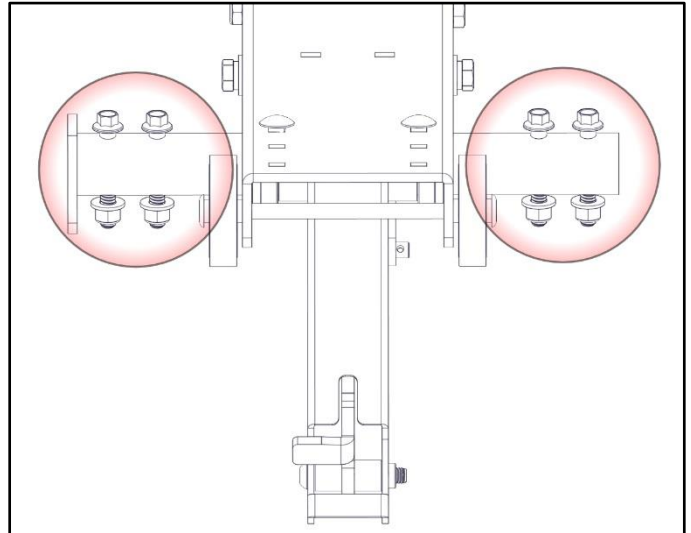
- Install rear wheels.
- Slide wheel axle in the end of the rear bow.
- Place nylon washer in between the bow and the wheel.
- Place a wheel on each end of the axle.
- Cap the wheel with wheel stopper.

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

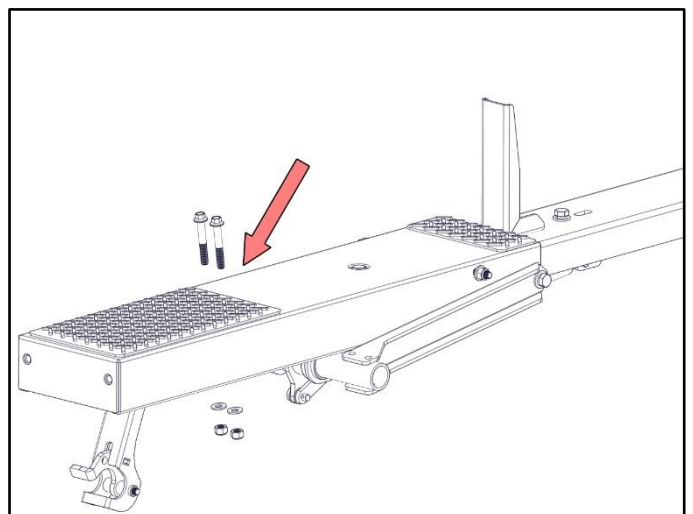
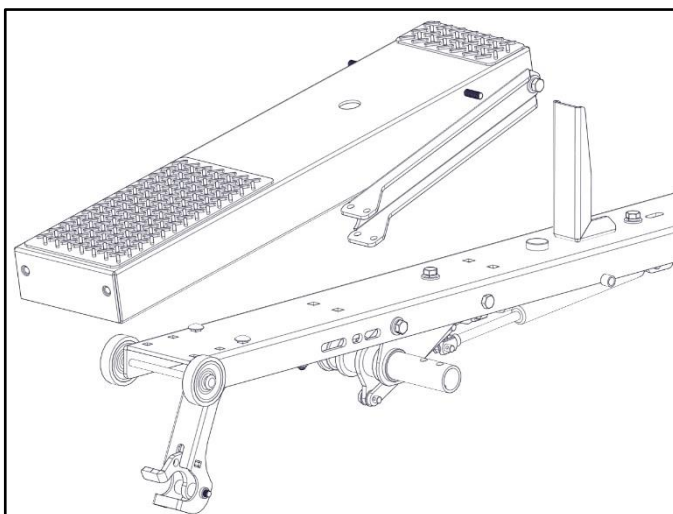


Step 6 – Install Rear Pan

- Remove hardware from the installed damper mechanism from step 3.

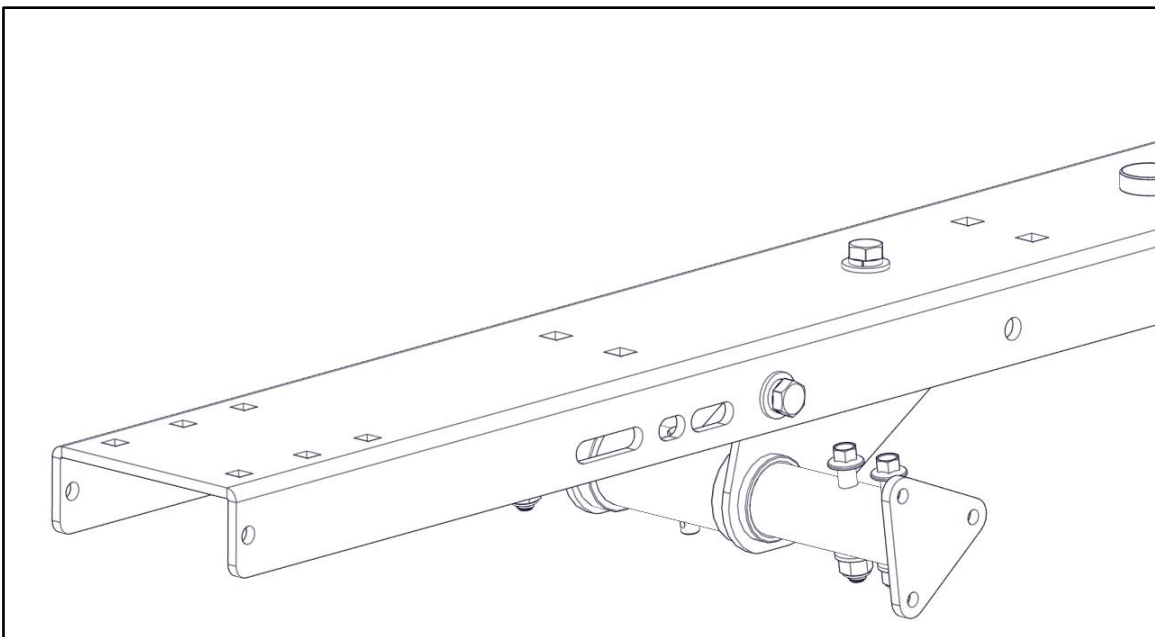
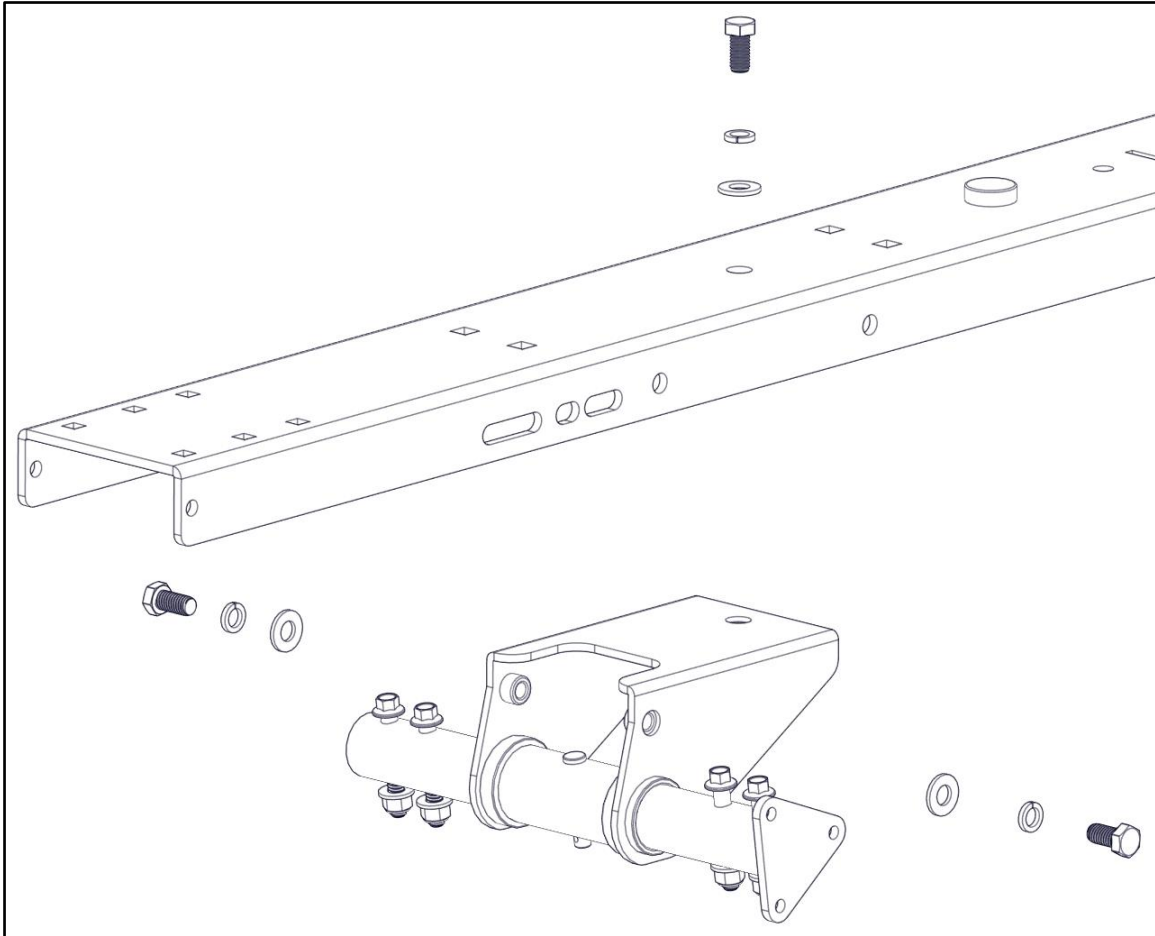


- Place rear pan on top of wheels and bow. Be sure the wheel caps DID NOT come off.
- Align the arms from the pan with the holes in the damper mechanism where the bolts were previously removed.
- Bolt together using hardware that was removed, only use the front two bolts, leaving the holes on the rear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



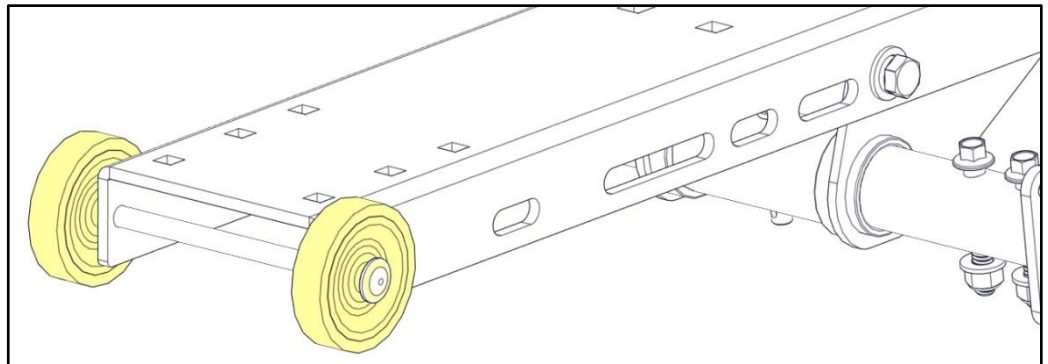
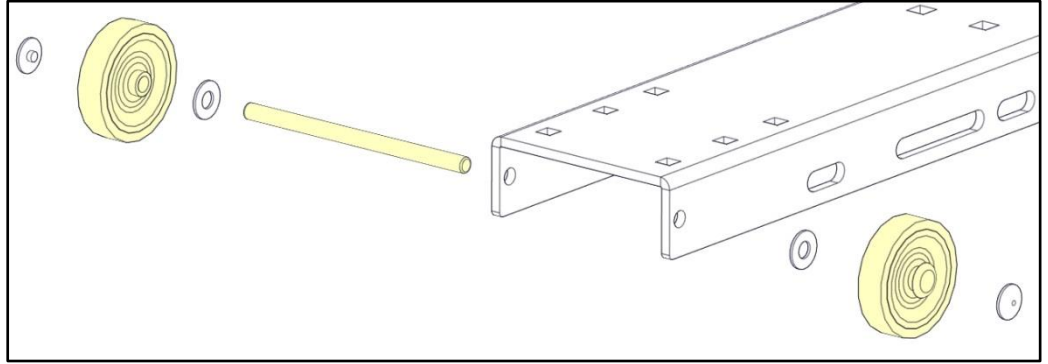
Step 7 – Install Front Mechanism

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



Step 8 – Front Wheels

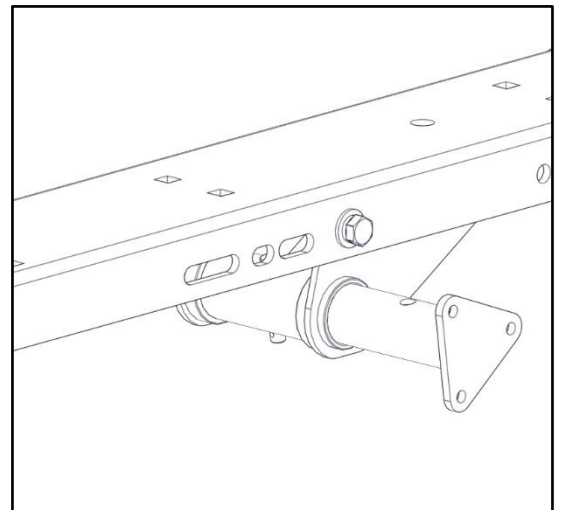
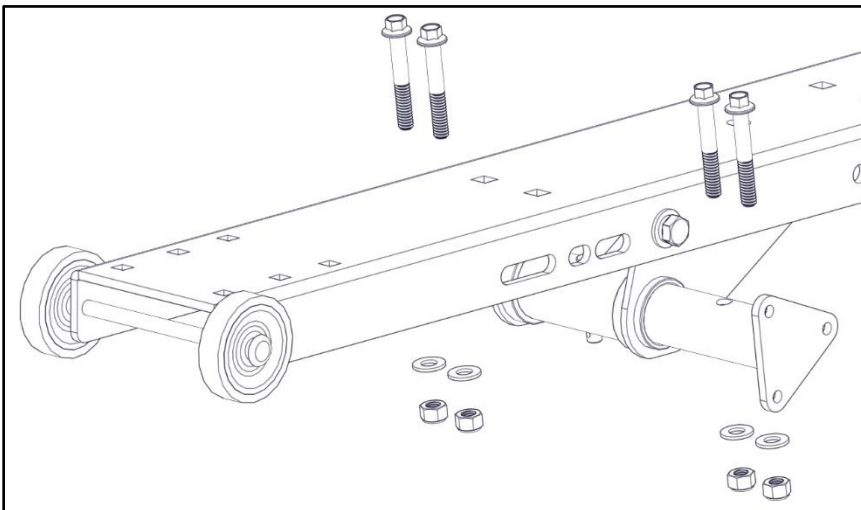
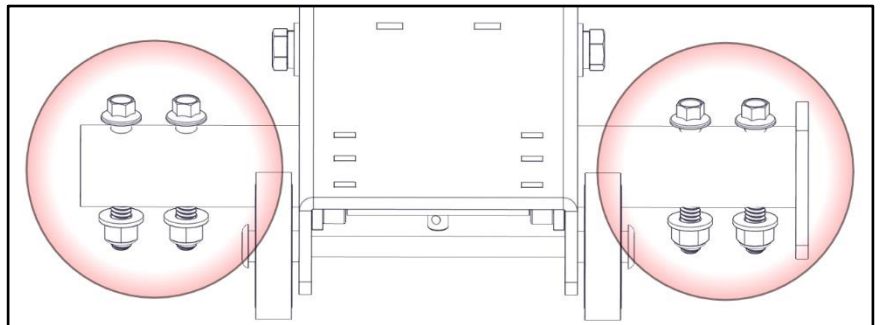
- Install front wheels.
- Slide wheel axle in the end of the front bow.
- Place nylon washer in between the bow and the wheel.
- Place a wheel on each end of the axle.
- Cap the wheel with wheel stopper.



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

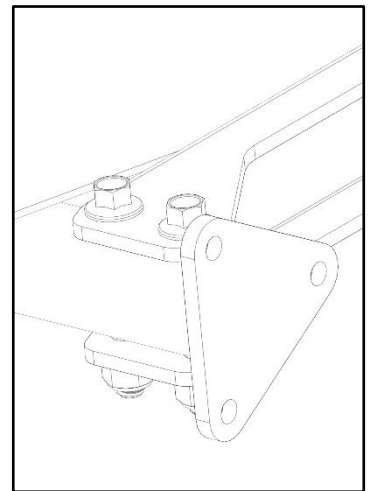
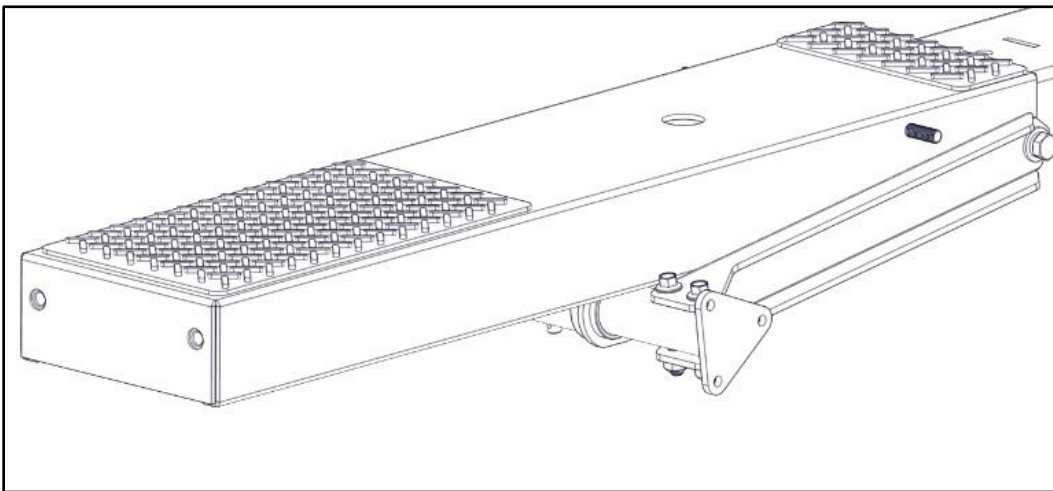
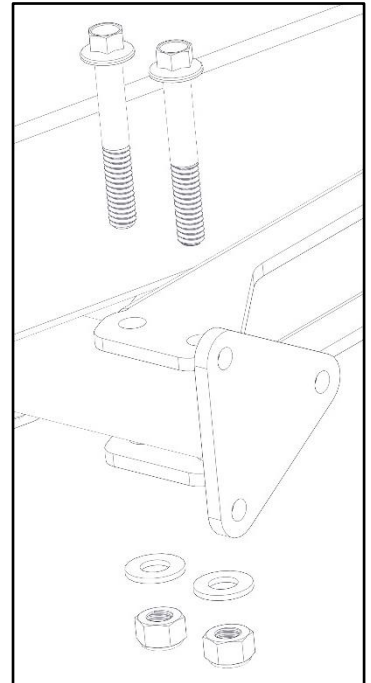
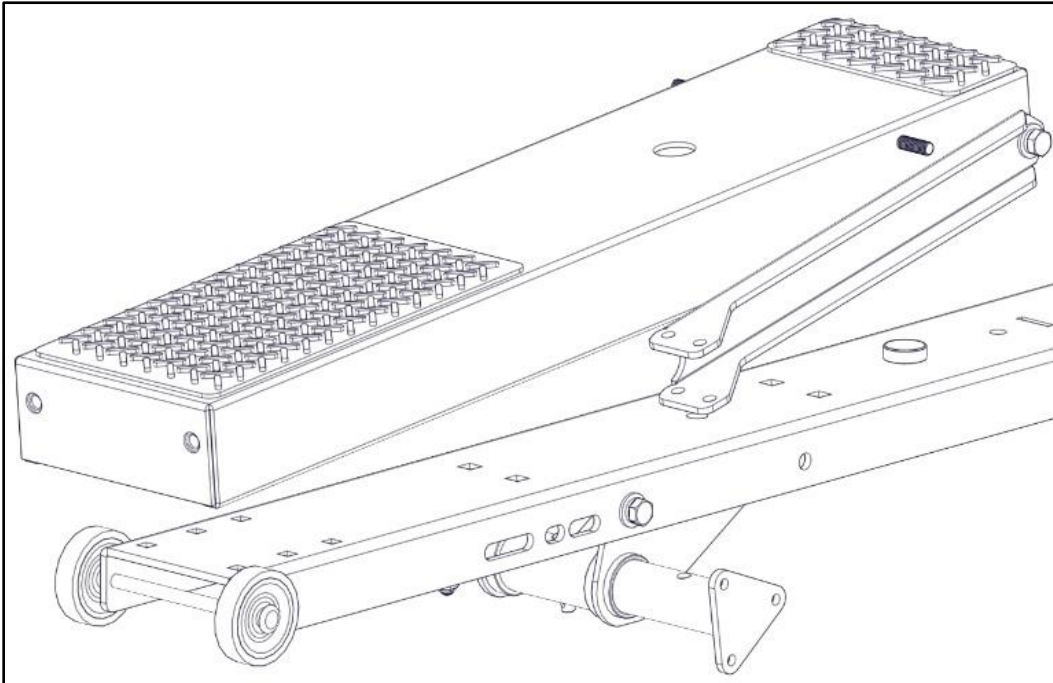
Step 9 – Remove Bolts

- Remove hardware from the previously installed mechanism from step 7.



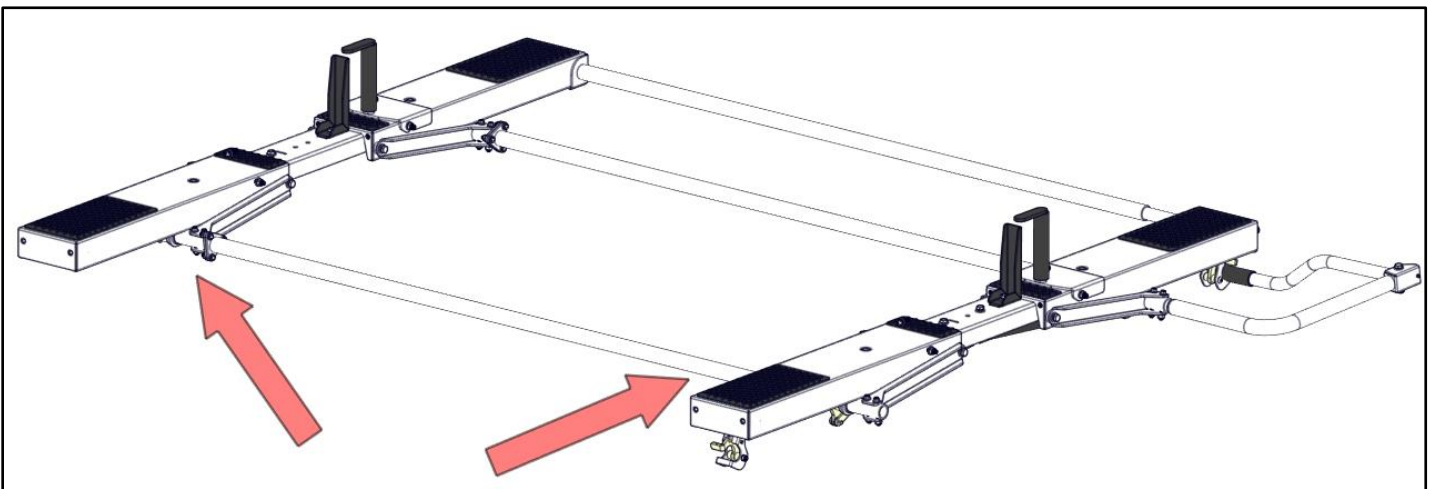
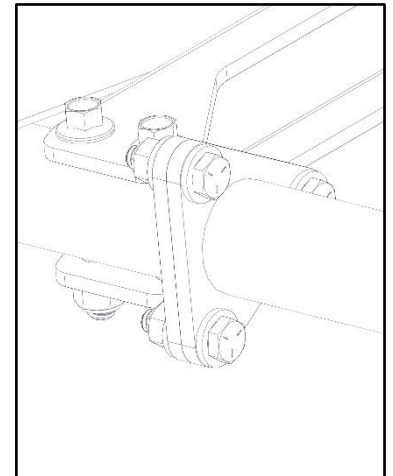
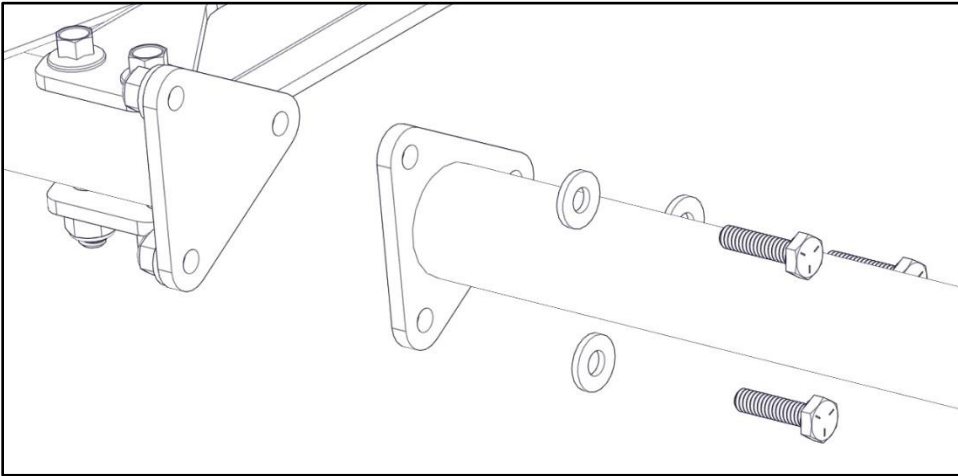
Step 10 – Install Front Pan

- 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.



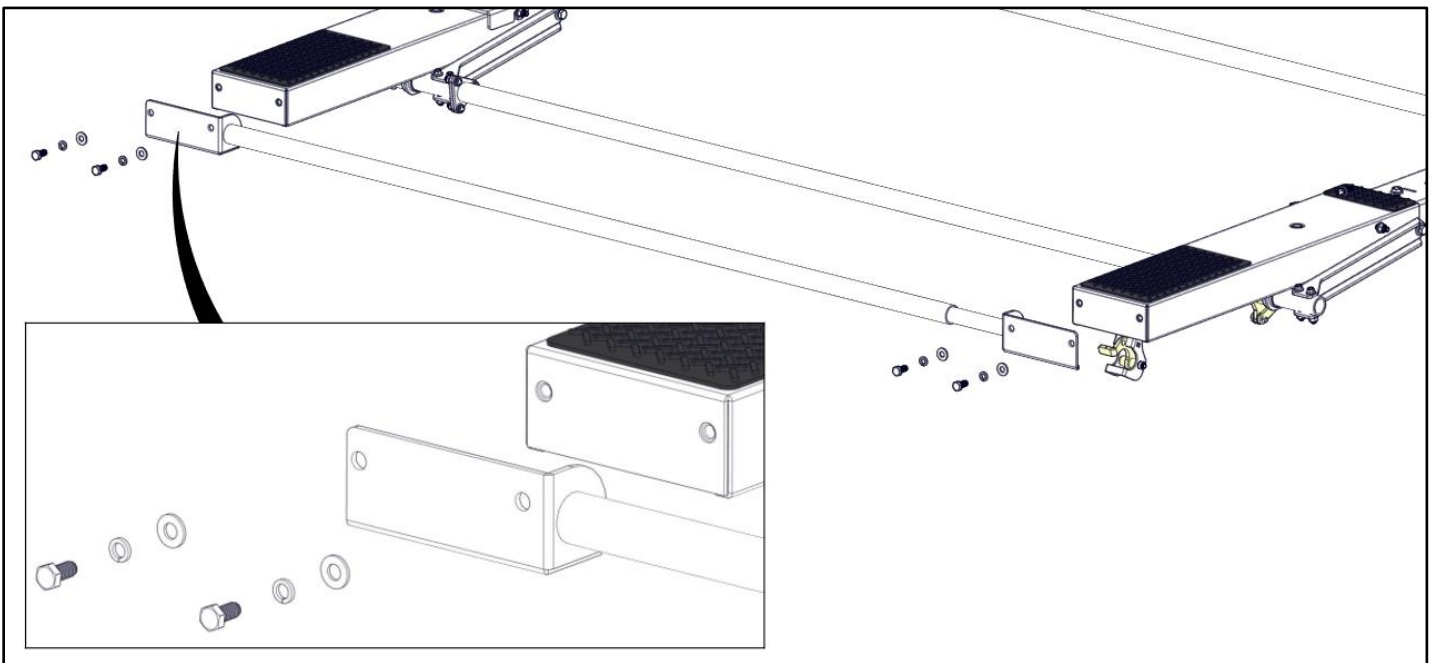
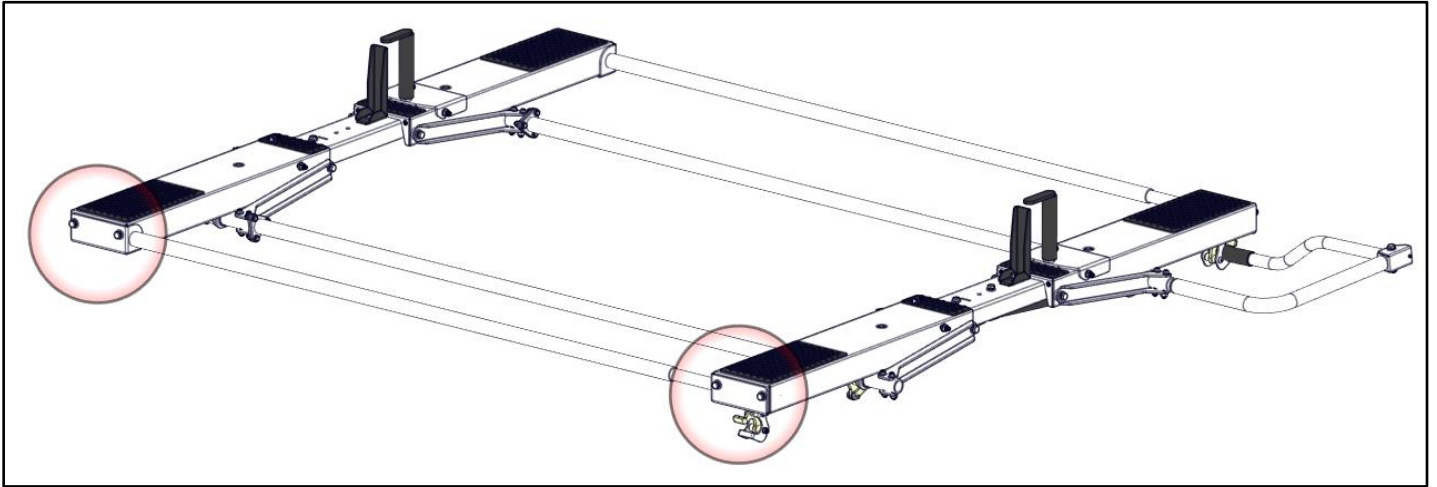
Step 11 – Attach Torque Tube

- 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.
- TIGHTEN



Step 12 – Install End Tube

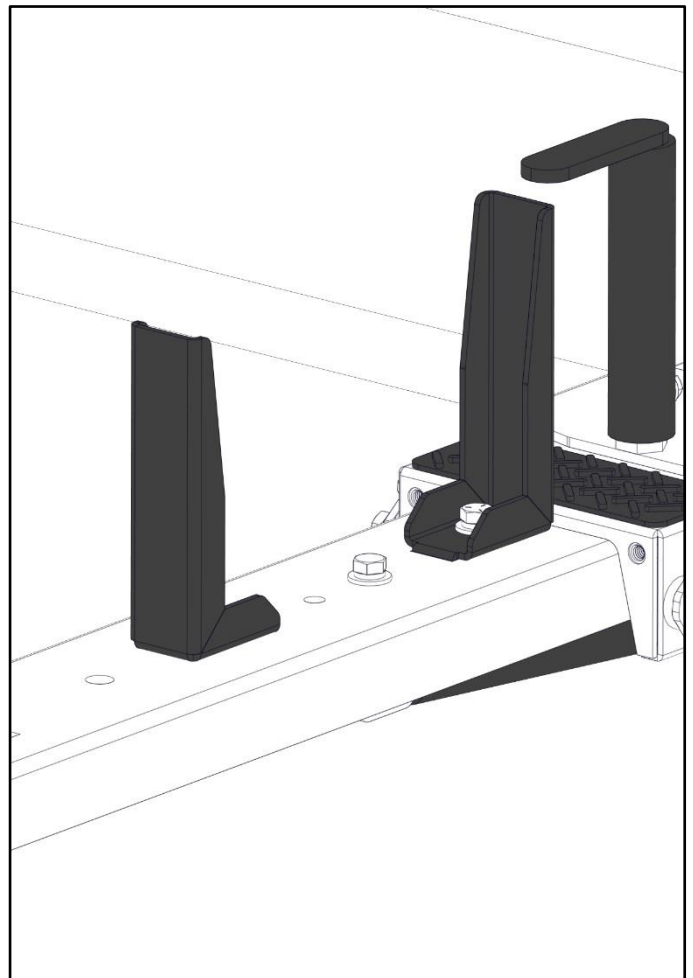
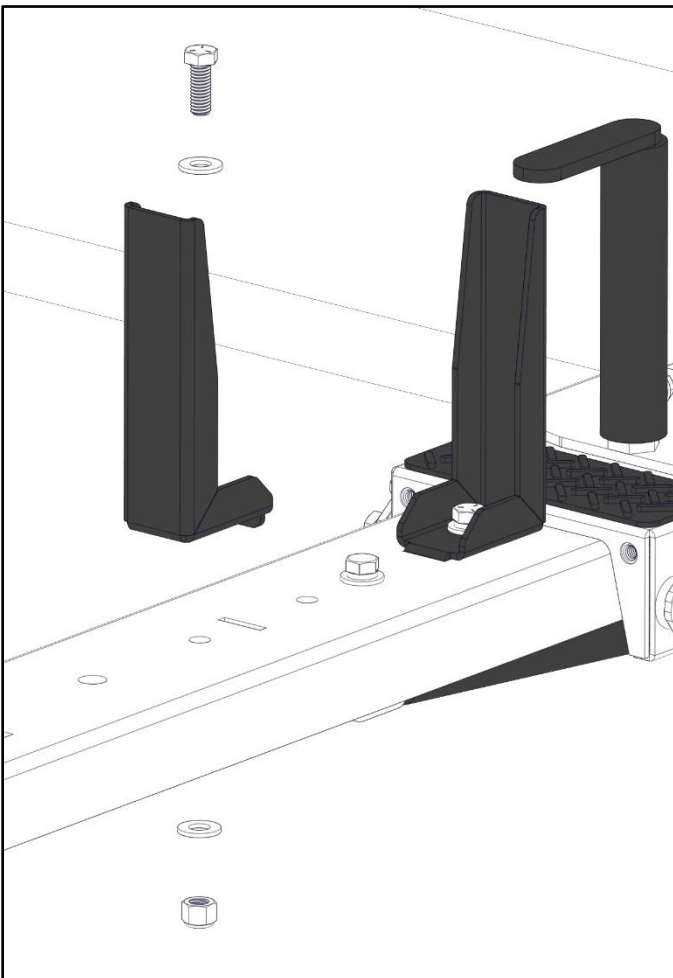
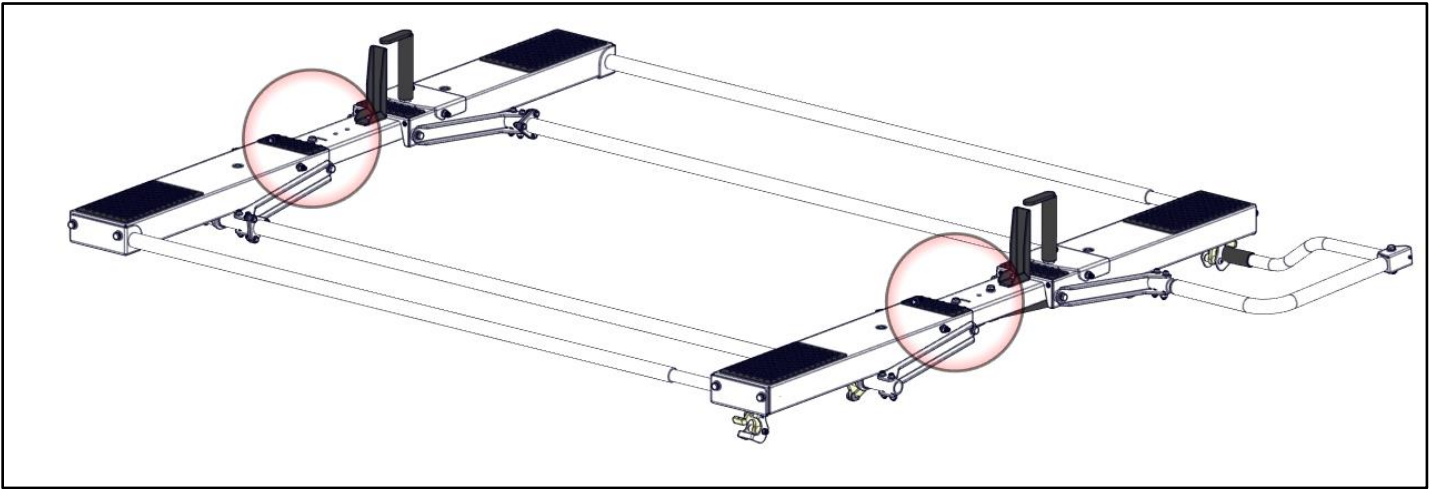
- Place end tube at the end of each bow.
- Bolt into place using 3/8" x 3/4" hex head, 3/8" lock washer and 3/8" flat washer.
- Repeat at front and rear bow.
- TIGHTEN



Step 13 – Install Ladder Stops

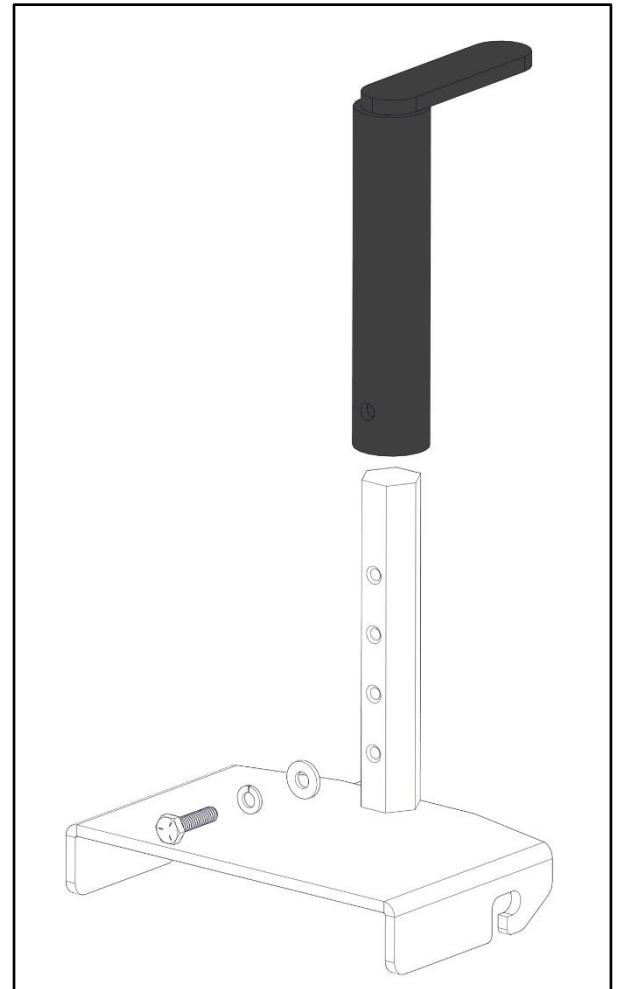
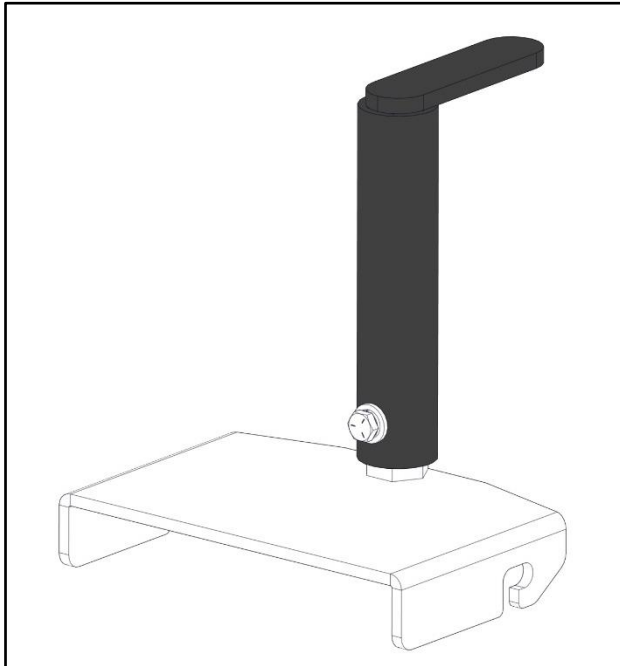
- Bolt the ladder hook to both bows in the orientation shown.
- Be sure to have the flange of the hook line up with the slot on the bow.
- Use the existing hardware in the rear bow to attach the ladder stop to the rear bow.
- Use 3/8" x 1" hex head, two 3/8" flat washers and 3/8" nyloc nut to install on the front bow.

TIGHTEN



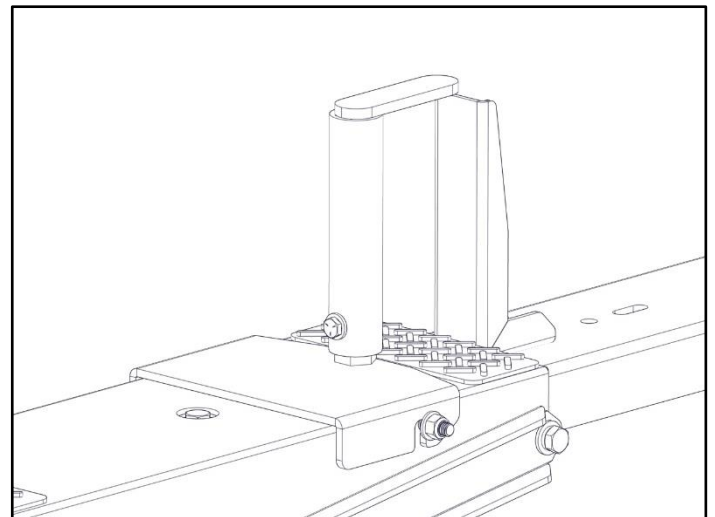
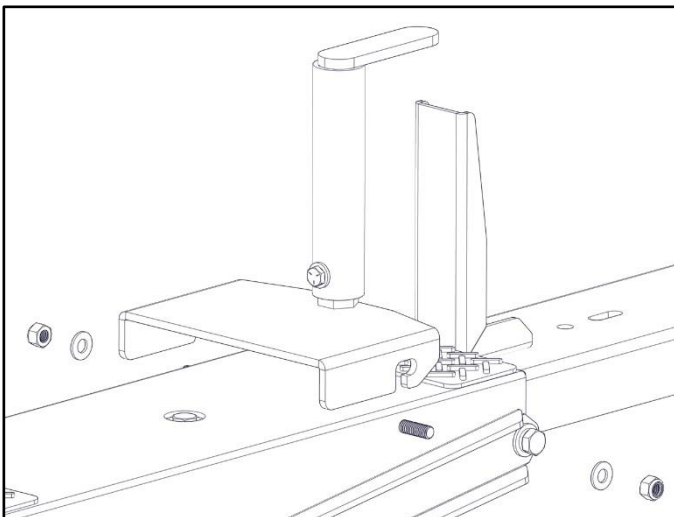
Step 14 – Assemble Ladder Hooks

- Bolt ladder hook assembly to ladder hook weldment as shown.
- Use 1/4" x 1" hex head, 1/4" lock washer and 1/4" flat washer. This can be adjusted at a later time to fit a variety of different ladder shapes and sizes.



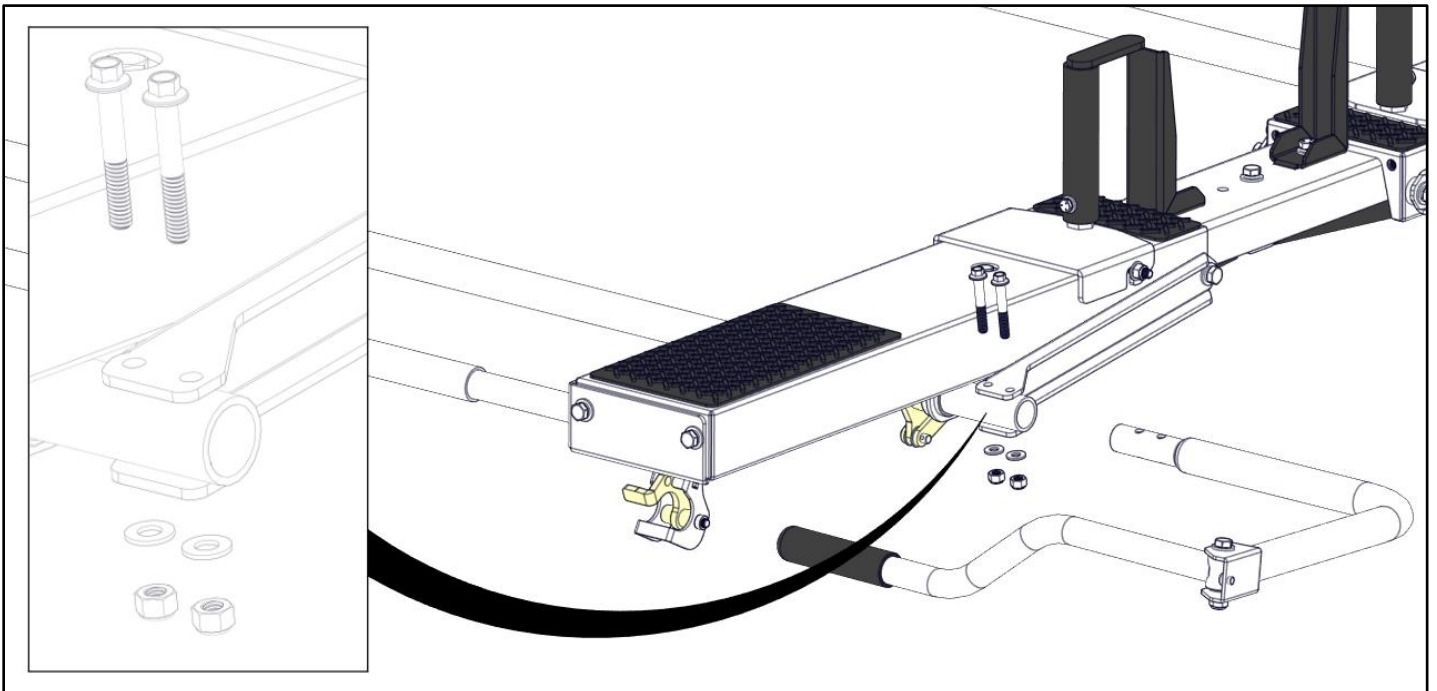
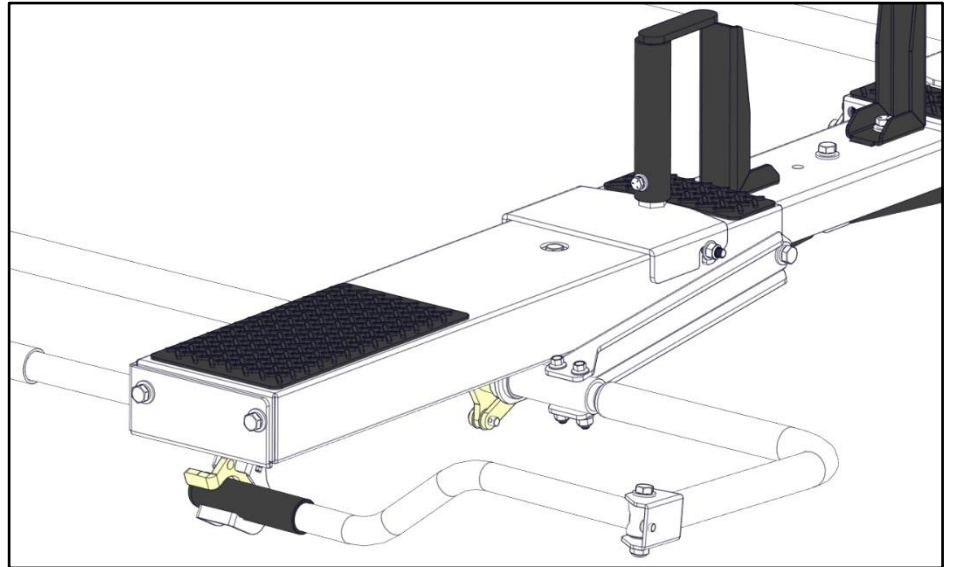
Step 15 – Install Ladder Hooks

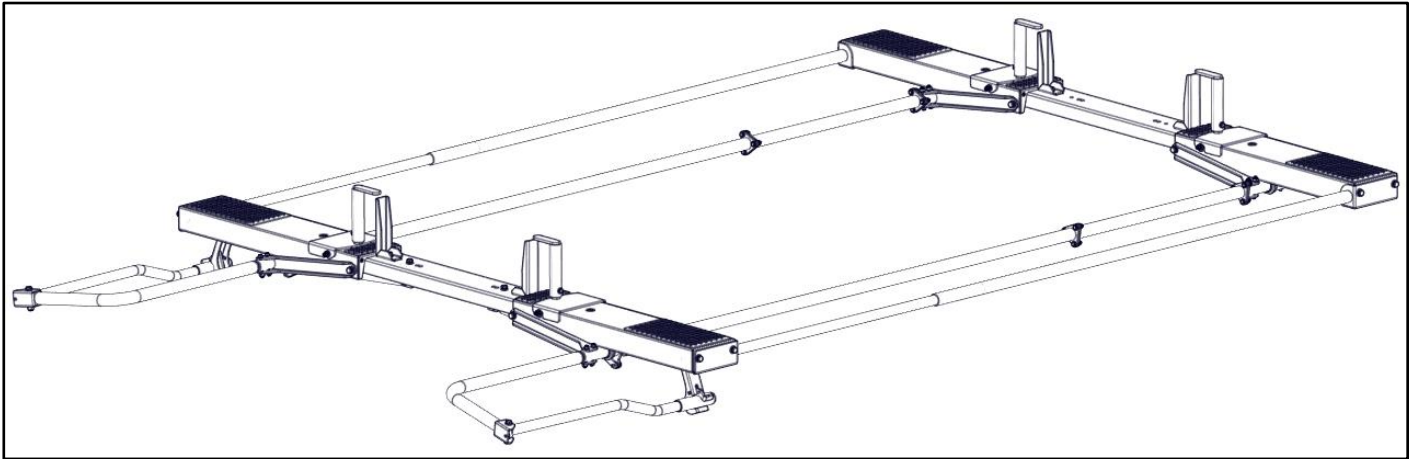
- At the location shown, use the hardware on the bows to install the ladder hooks.
- Loosen the nuts and slide the ladder hook into place in the orientation shown. Be sure the washers are on the outside of the ladder hook.
- TIGHTEN



Step 16 – Install Handle

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





GO BACK AND TIGHTEN ALL BOLTS FROM PREVIOUS STEPS
BE SURE ALL HARDWARE INCLUDING THE MOUNTING IS TIGHT.
YOUR INSTALLATION IS NOW COMPLETE