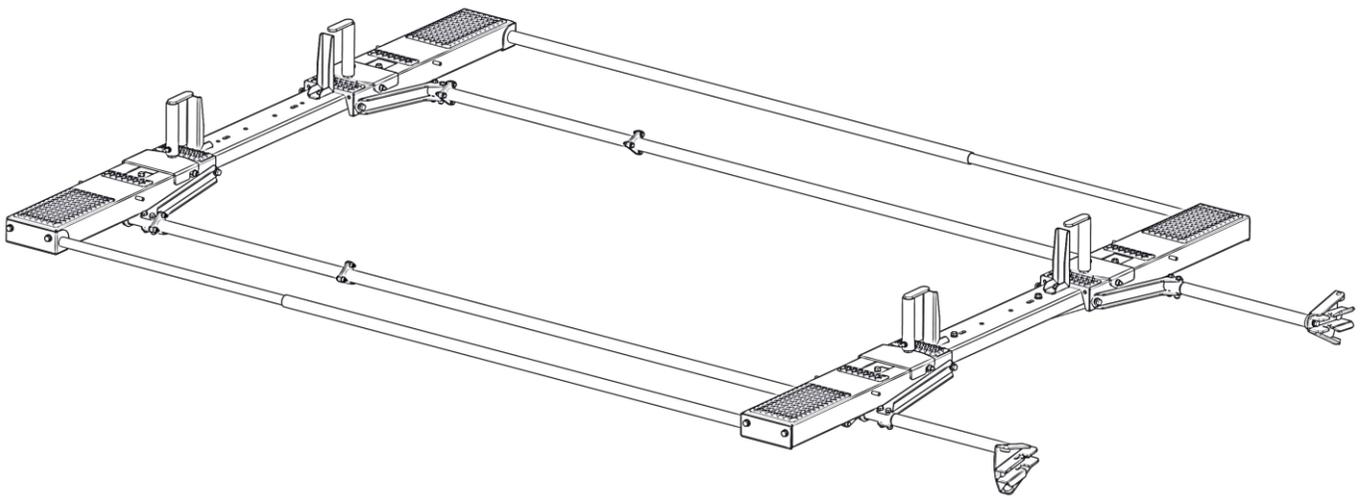


Holman

Installation Guide 4A96M



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.



DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF.

Tools Needed

9/16" Wrench and Socket	7/16" Wrench and Socket
-------------------------	-------------------------

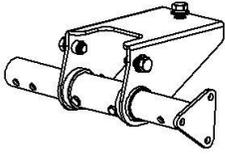
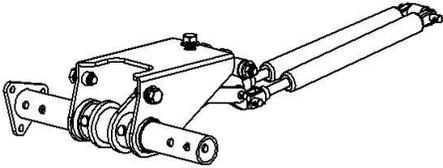
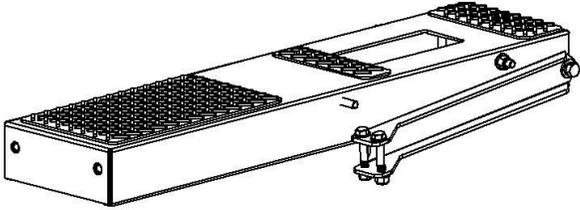
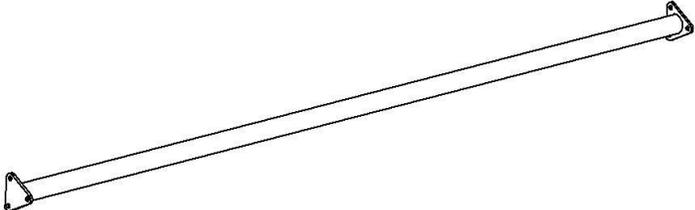
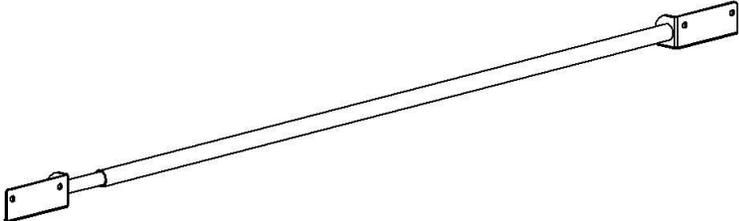
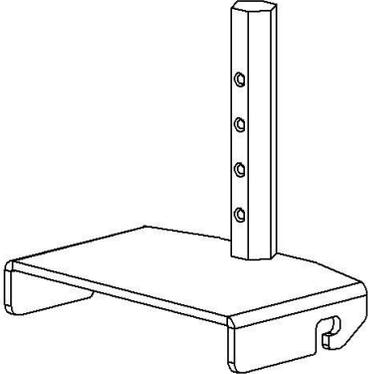
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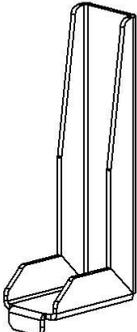
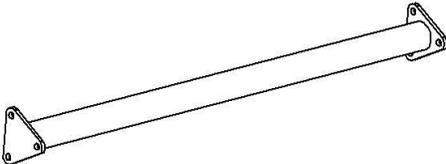
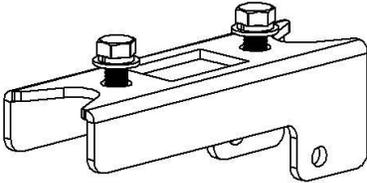
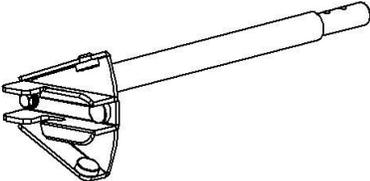
Before You Begin

- Read all instructions.
 - Have ladder rack installed on vehicle.
 - Place sealant around all swage connections.
 - **DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF.**
 - **BE SURE TO ADJUST LADDER CLAMPS ACCORDINGLY TO FIRMLY SECURE LADDER TO RACK.**
 - **KEEP THE ADJUSTMENT GUIDE IN VEHICLE AT ALL TIMES.**
-

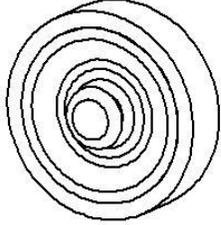
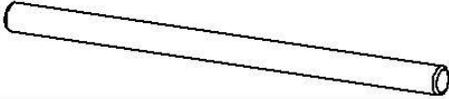
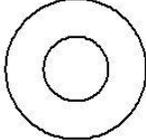
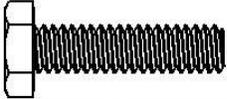
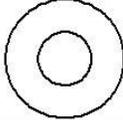
Parts List

ITEM		PART NO.	DESCRIPTION	QTY.
A		4A93L-12	FRONT TORQUE TUBE ASSEMBLY	1
B		4A93L-11	DAMPER ASSEMBLY	1
C		4A93L-10	PAN	2
D		4A93L-50	TORQUE TUBE	1
E		4A93L-7	END TUBE	1
F		4A900-36	LADDER HOOK BASE	2

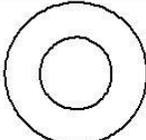
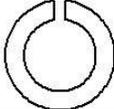
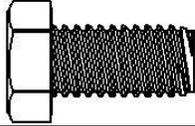
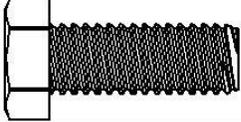
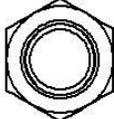
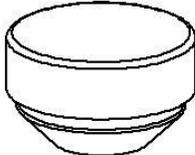
Parts List (Continued)

ITEM		PART NO.	DESCRIPTION	QTY.
G		4A900-35	LADDER HOOK	2
H		4A900-30-004-R3	LADDER STOP	2
J		4A93L-51	TORQUE TUBE EXTENSION	1
K		4A900-50	DAMPER MOUNT	1
L		100531	HANDLE ASM	1
		18-4A96M	HARDWARE KIT	1

Hardware

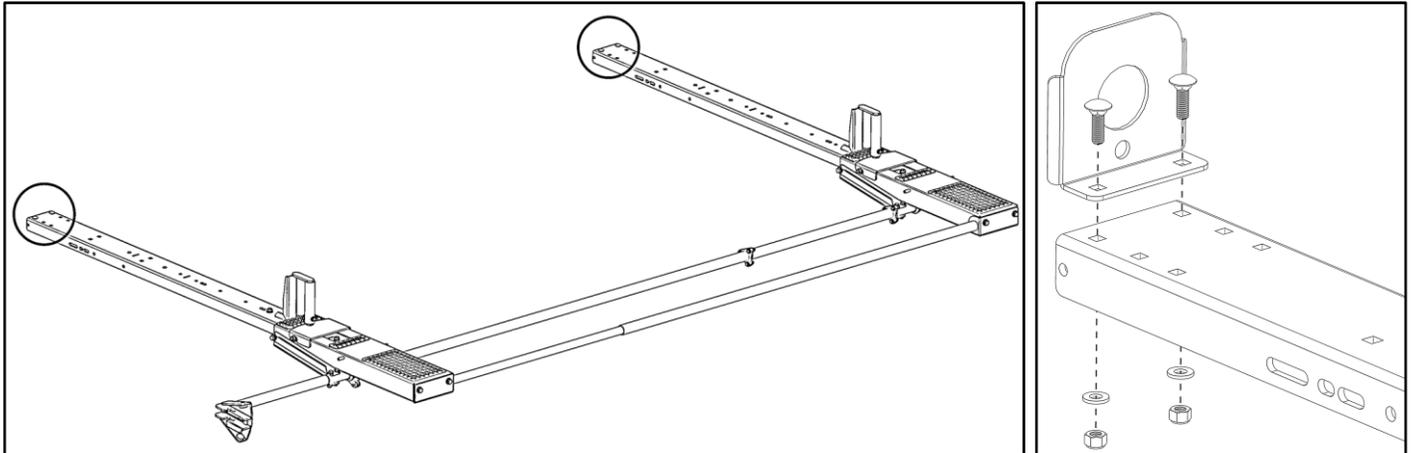
ITEM	HARDWARE TO SCALE	PART NO.	DESCRIPTION	QTY.
1		9960T26	WHEEL SCALE 1:2	4
2		40900-10-006	Axle SCALE 1:2	2
3		90295A160	Nylon Washer	4
4		92865A542	1/4"-20 x 1" HEX HEAD	11
5		90126A029	1/4" FLAT WASHER	20
6		95615A120	1/4"-20 NYLOC NUT	9
7		91102A750	1/4" LOCK WASHER	2

Hardware (Continued)

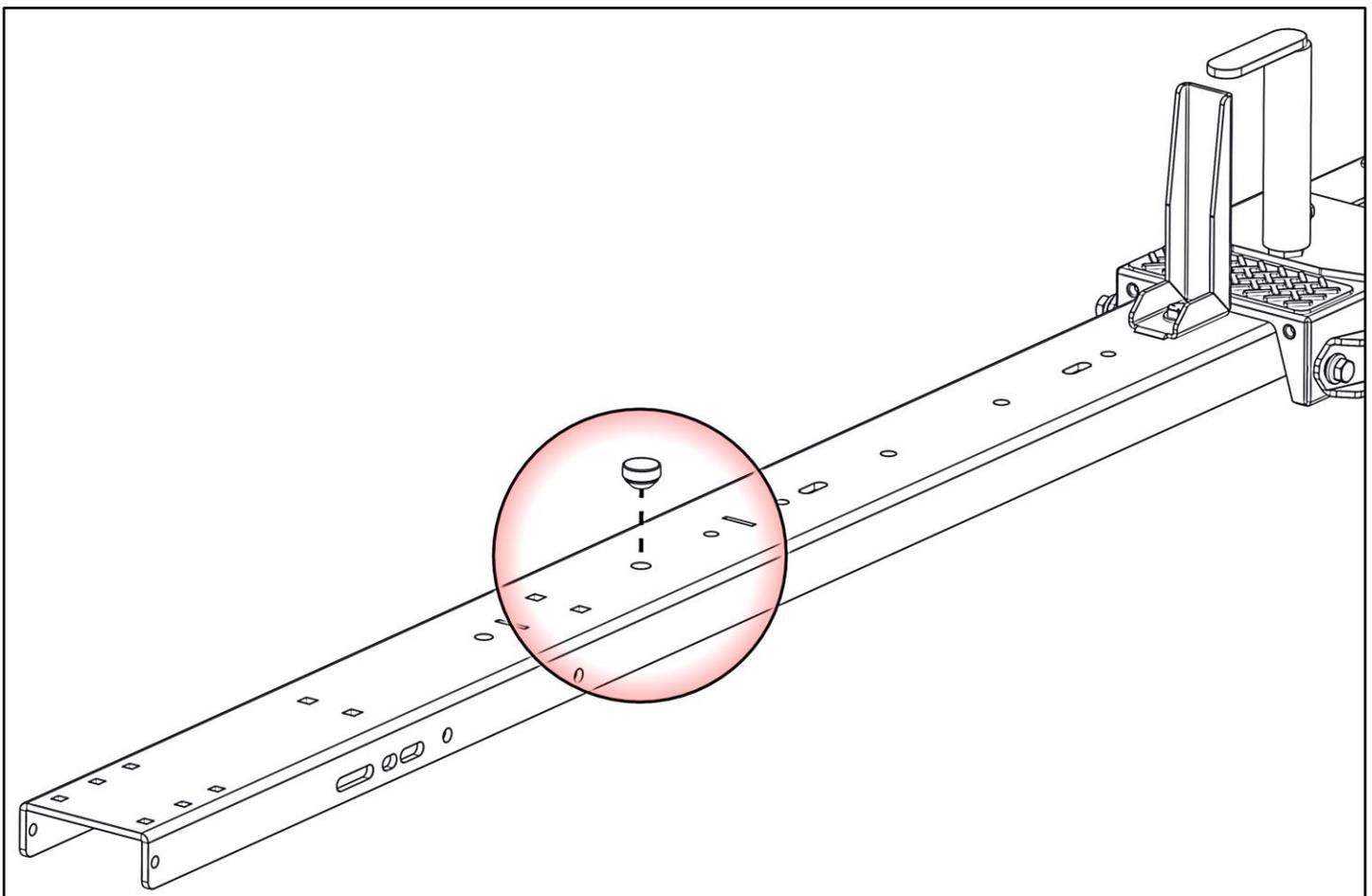
ITEM	HARDWARE TO SCALE	PART NO.	DESCRIPTION	QTY.
8		98023A031	3/8" FLAT WASHER	6
9		91102A760	3/8" LOCK WASHER	4
10		92865A622	3/8"-16 X 3/4" HEX HEAD	4
11		92865A624	3/8"-16 x 1" HEX HEAD	1
12		97135A230	3/8"-16 NYLOC NUT	1
13		9309k19	1" RUBBER BUMPER	2
		SEALANT - 60ml	SEALANT	1

Step 1 – Remove Load Plates and Install Bumpers

- If installed, at the end of each bow, opposite from the pan mechanism, remove the load plates as shown.

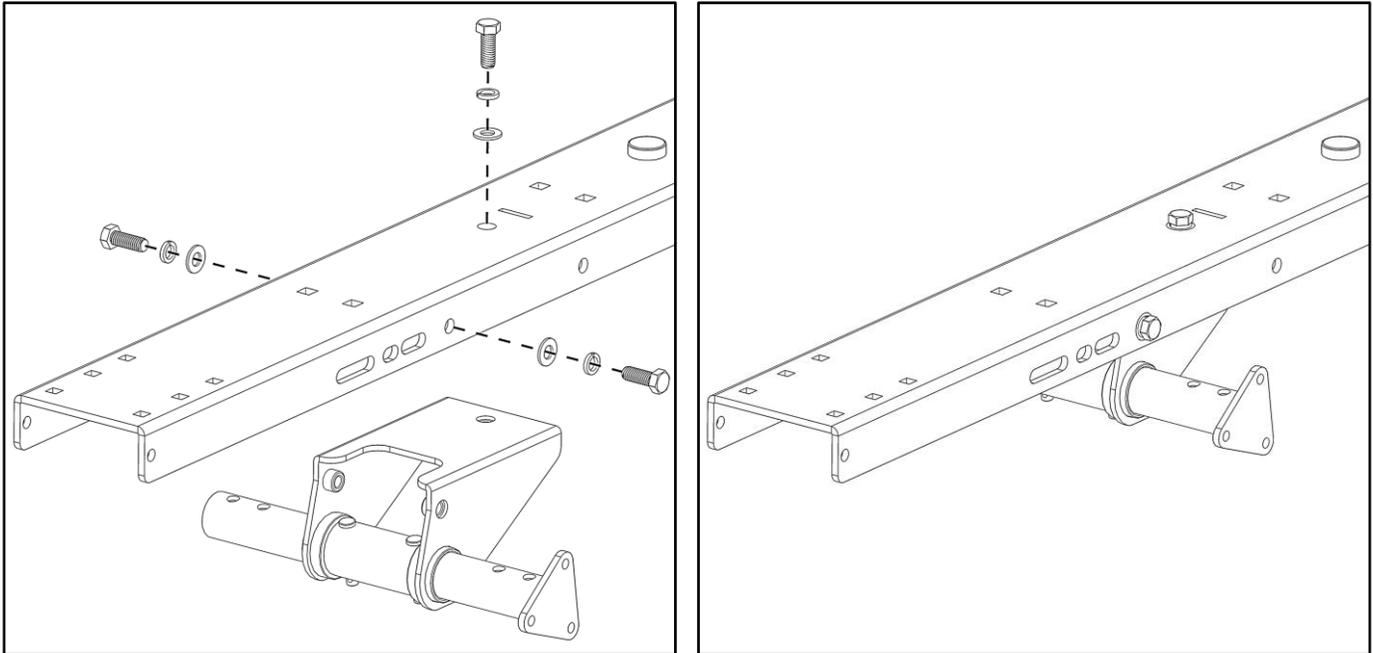


- Push the rubber bumper into the larger round hole in the location shown.
- Repeat on both bows.



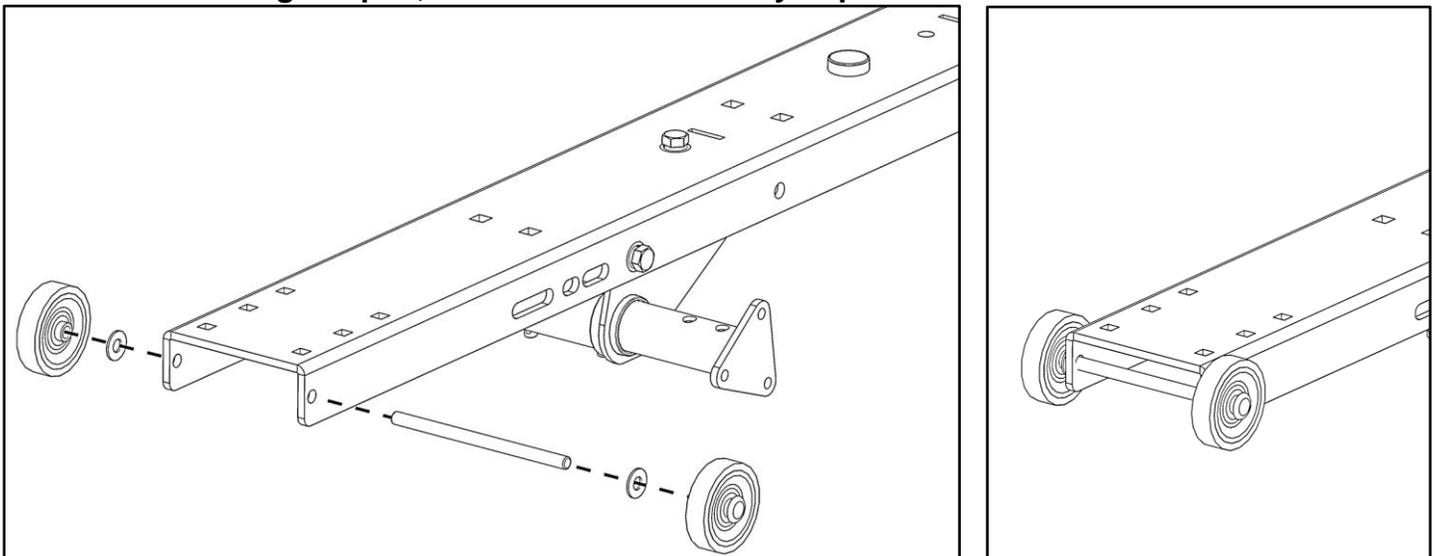
Step 2 – Assemble Front Bow Mechanism

- On the underside of the front bow, install the front torque tube assembly using the pre-assembled 3/8" hardware in the location shown.



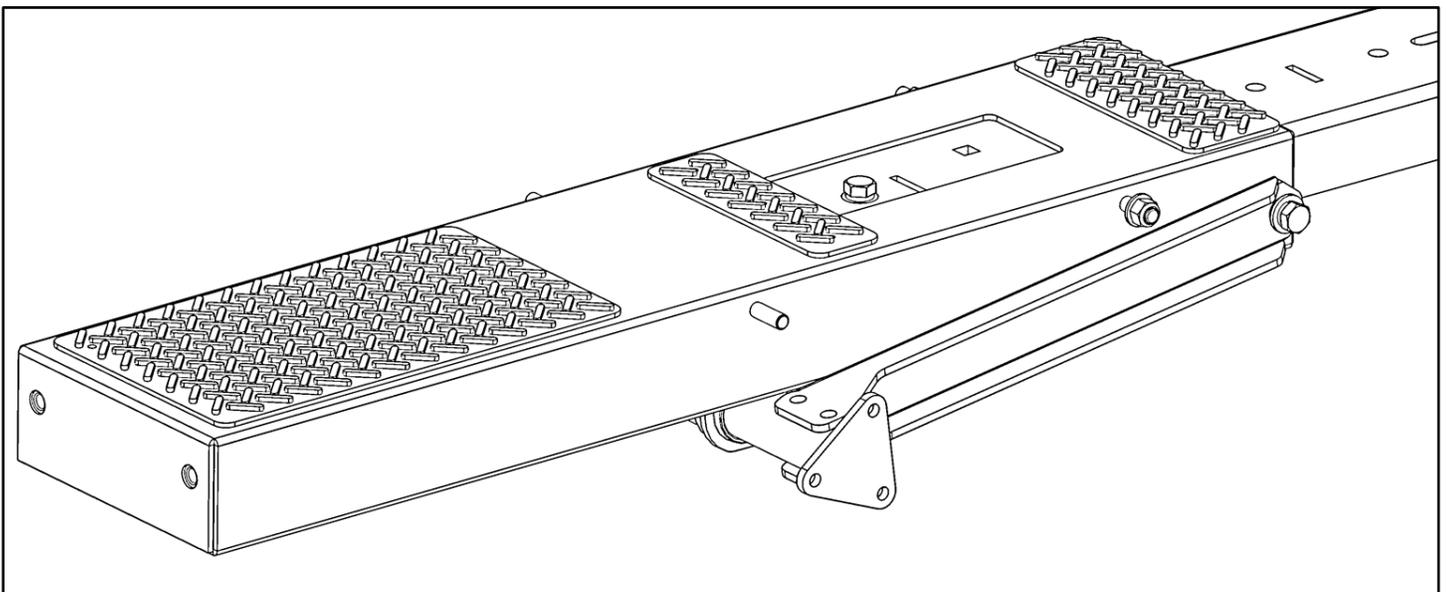
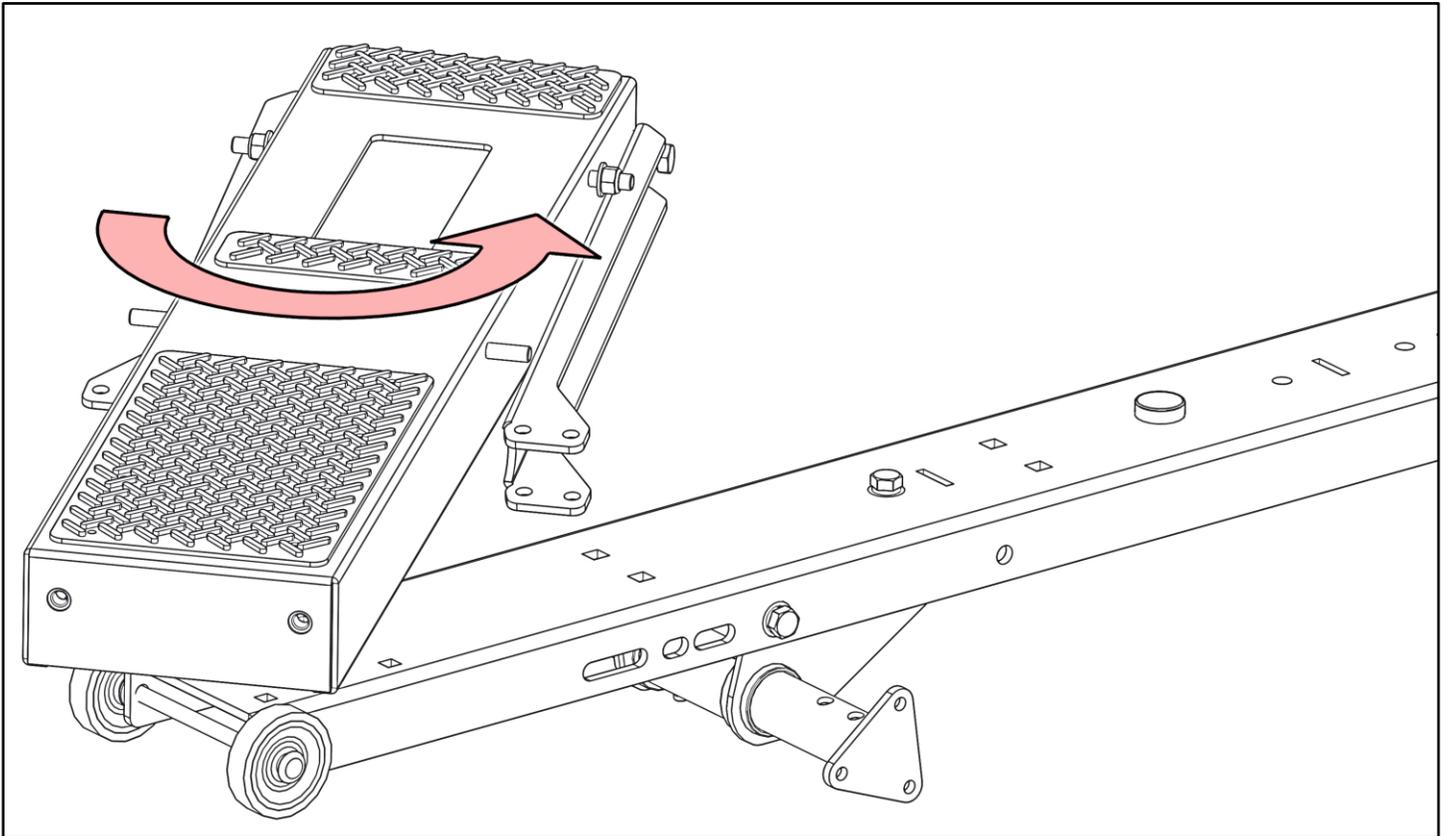
Step 3 – Install Front Wheels

- Slide the axle into the end of the front bow.
- Place a nylon washer and a wheel on each end of the axle as shown.
- **While installing the pan, be sure the wheels stay in position.**

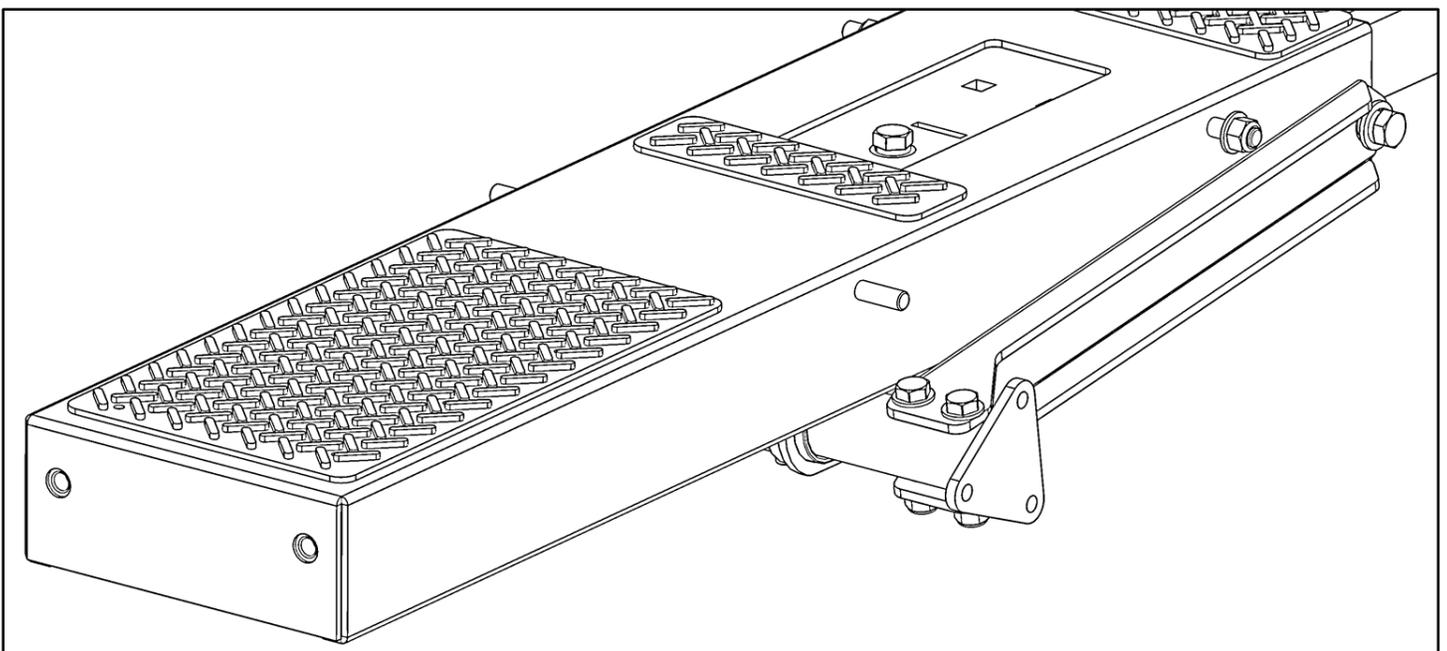
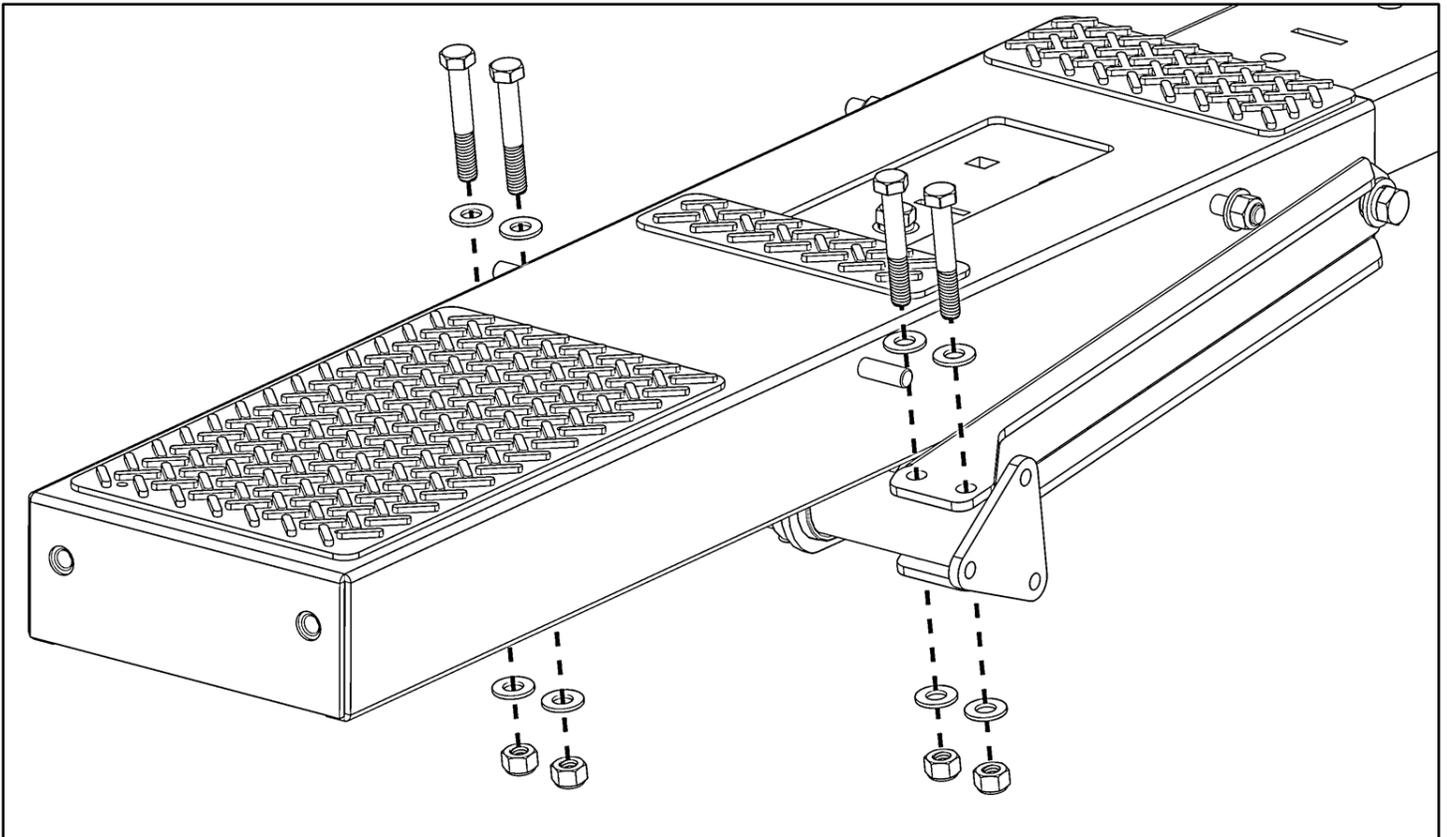


Step 4 – Install Front Bow

- Remove the hardware from the arms in the pan.
- Rotate the pan and place over the previously installed wheels. Position the pan so it is parallel with the bow.

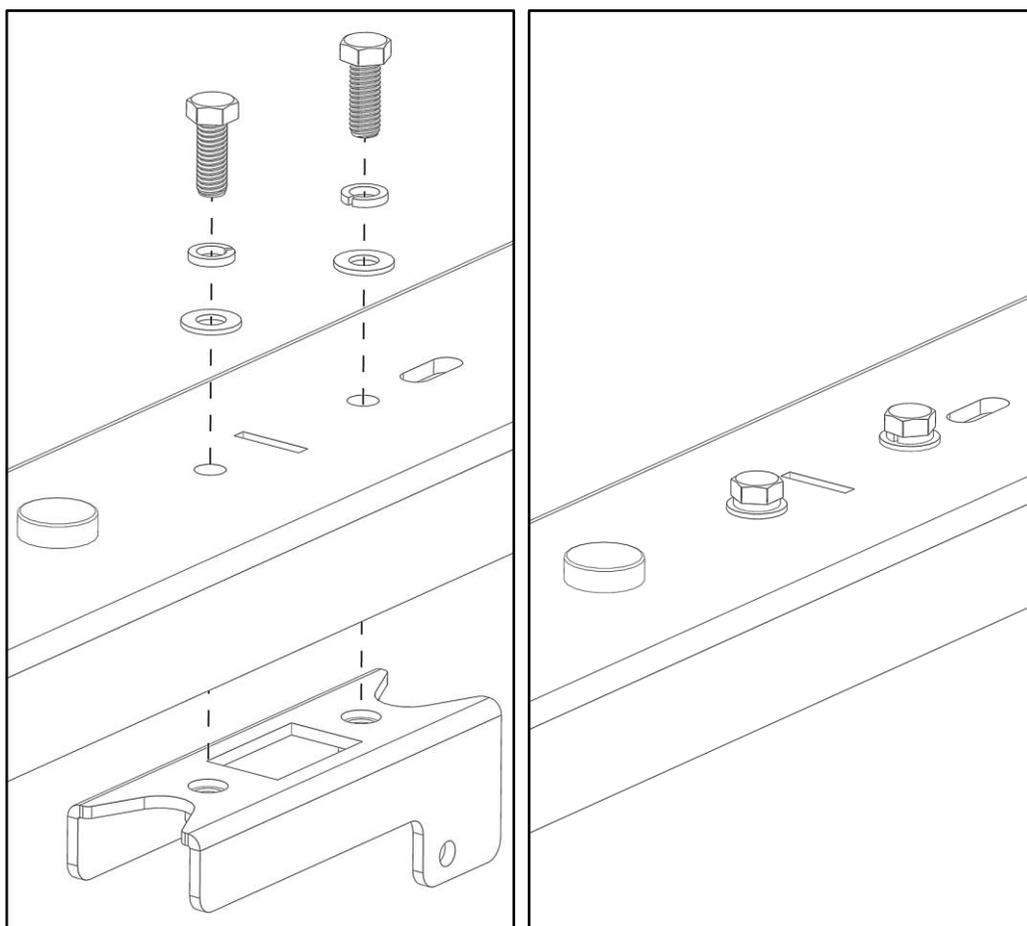
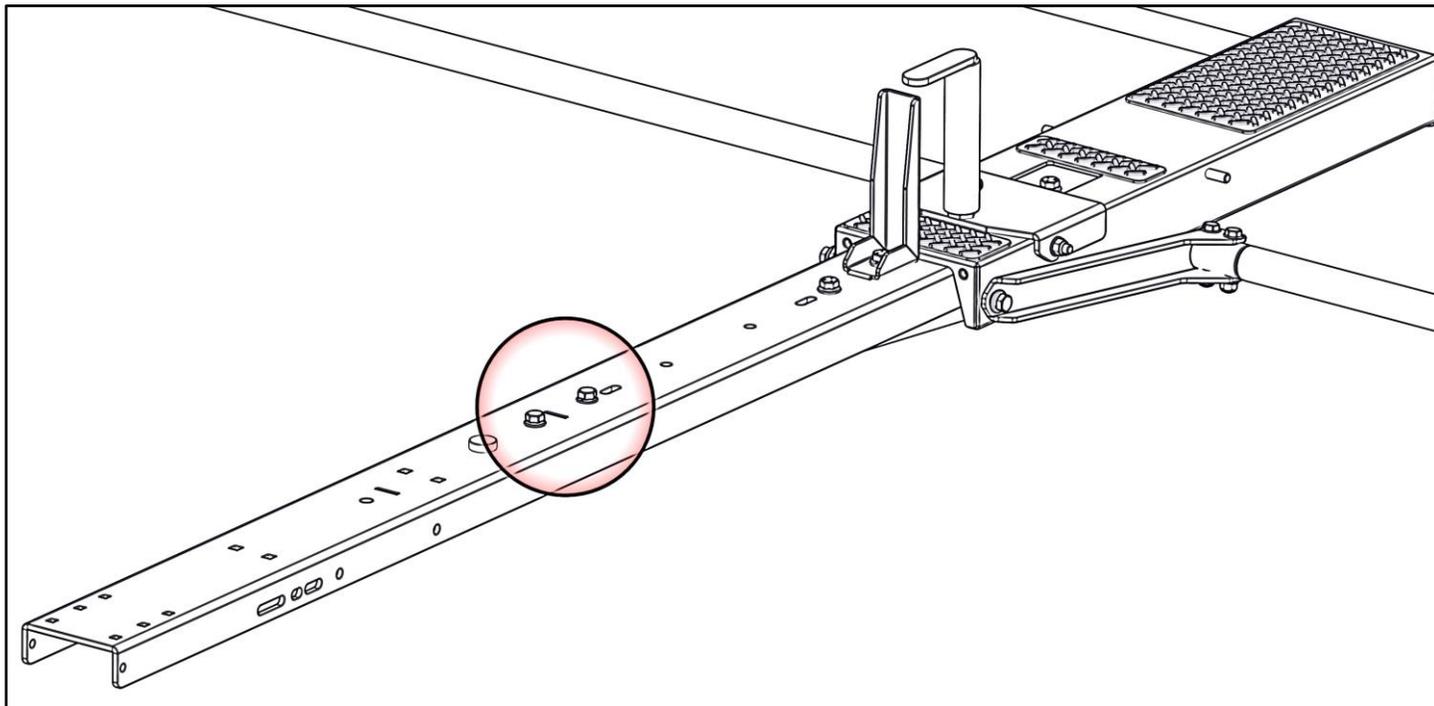


- Place the arms around the tube from the front bow mechanism.
- Replace the hardware to attach the pan to the front bow mechanism.



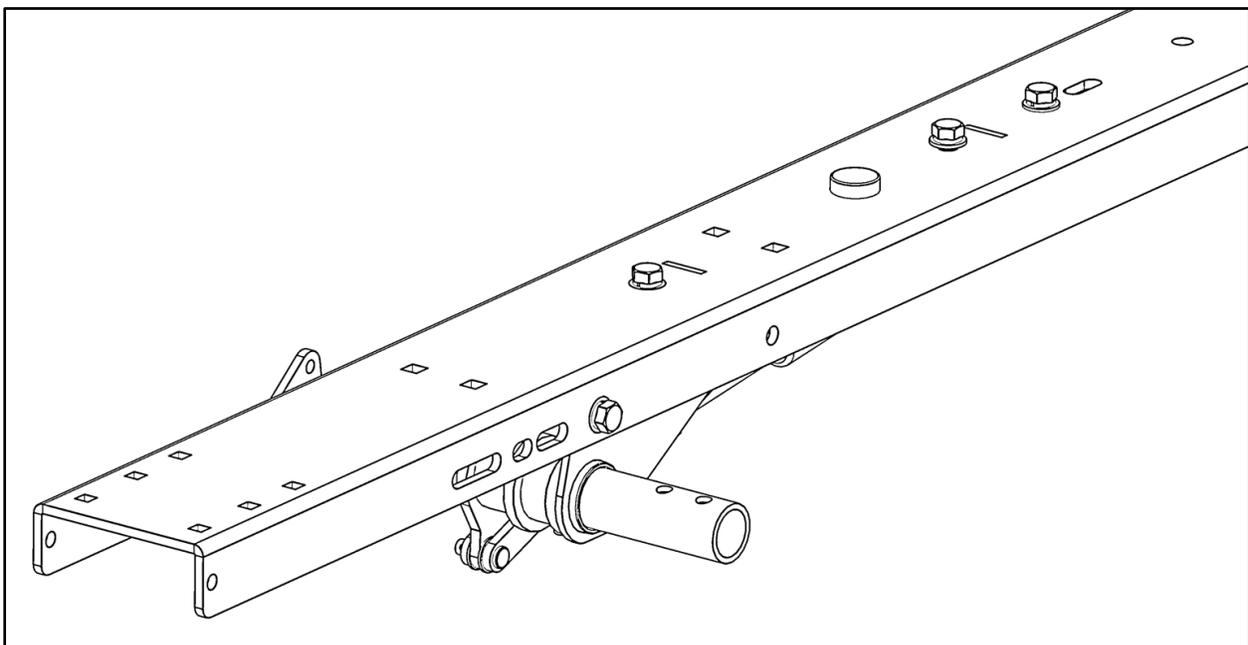
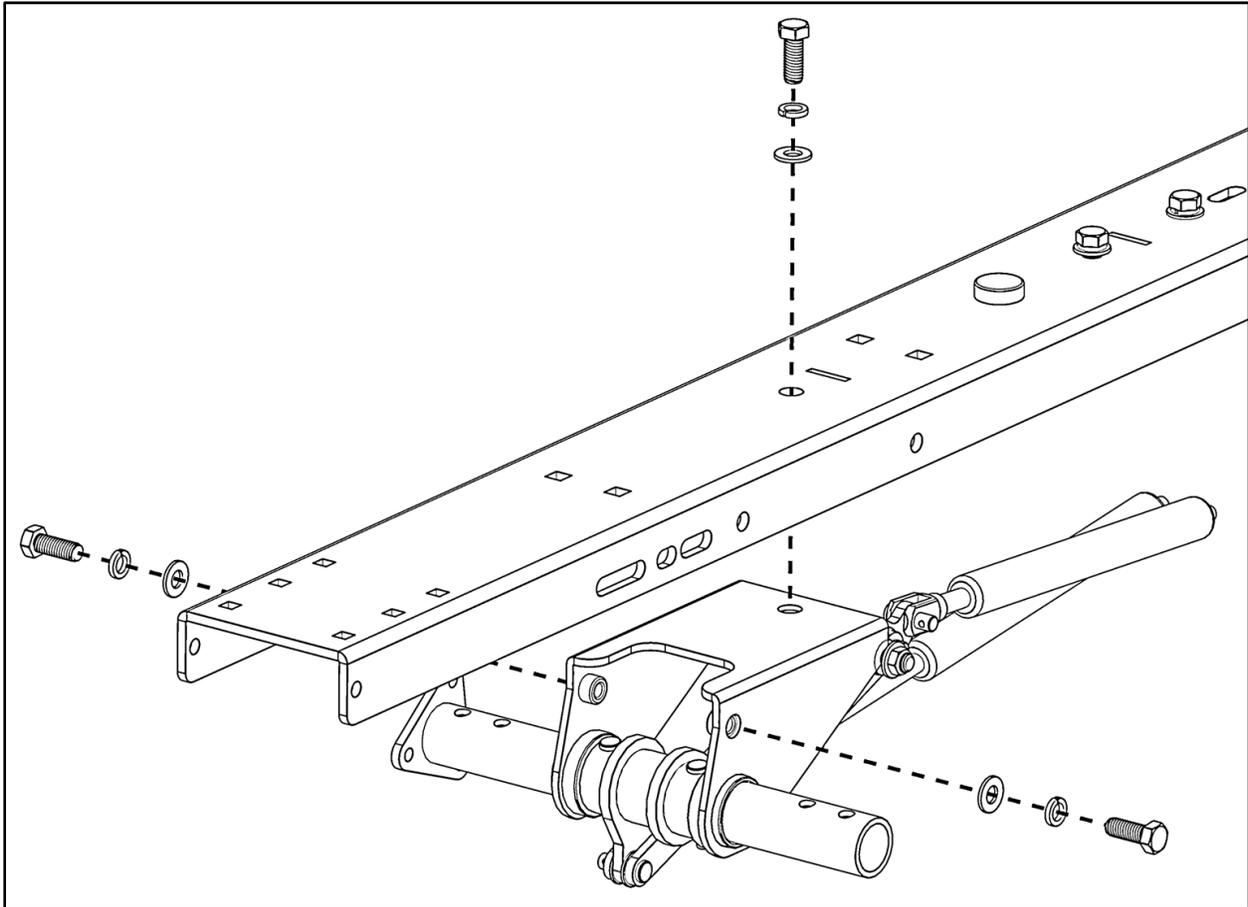
Step 5 – Install Damper Mount

- On the underside of the rear bow, install the damper mount in the location and orientation shown using the pre-assembled 3/8" hardware.

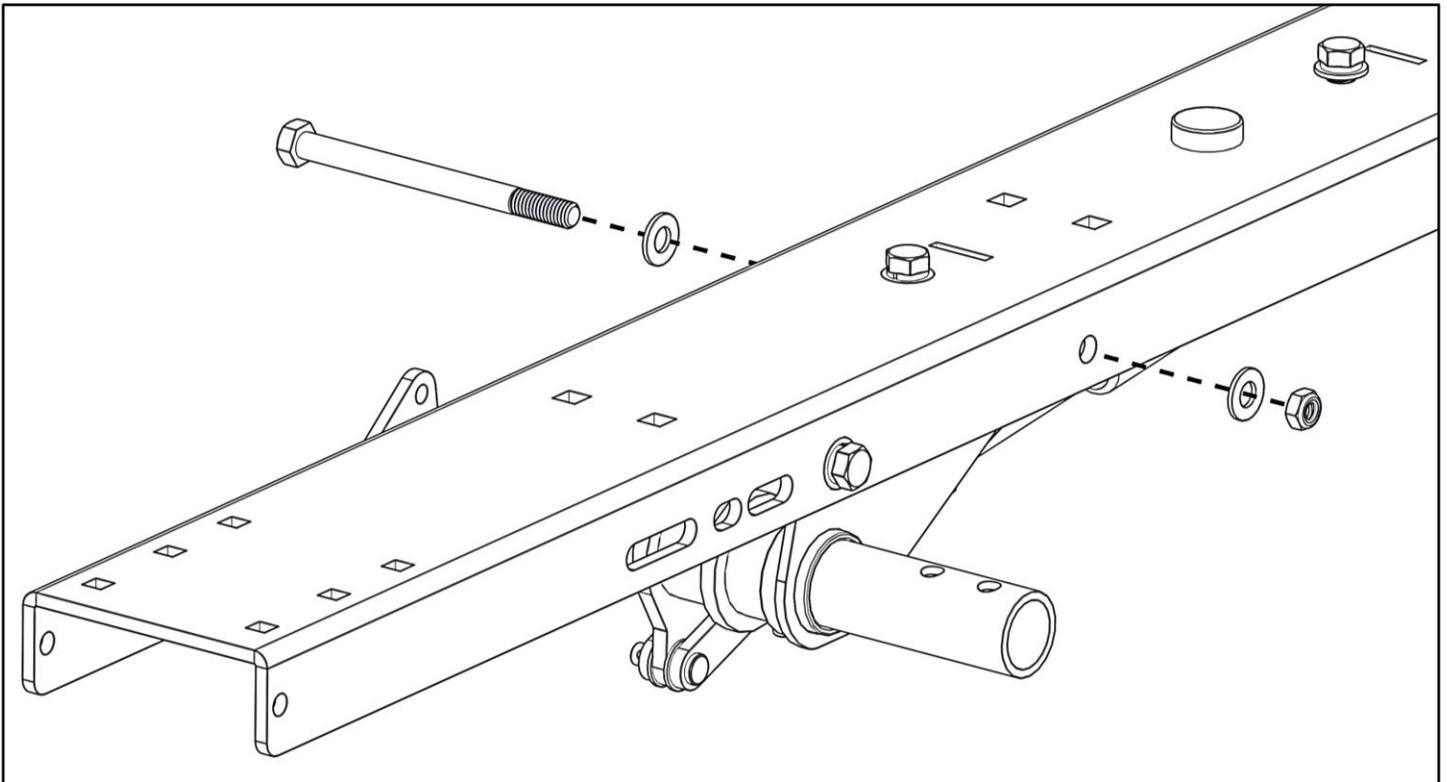


Step 6 – Install Damper Assembly

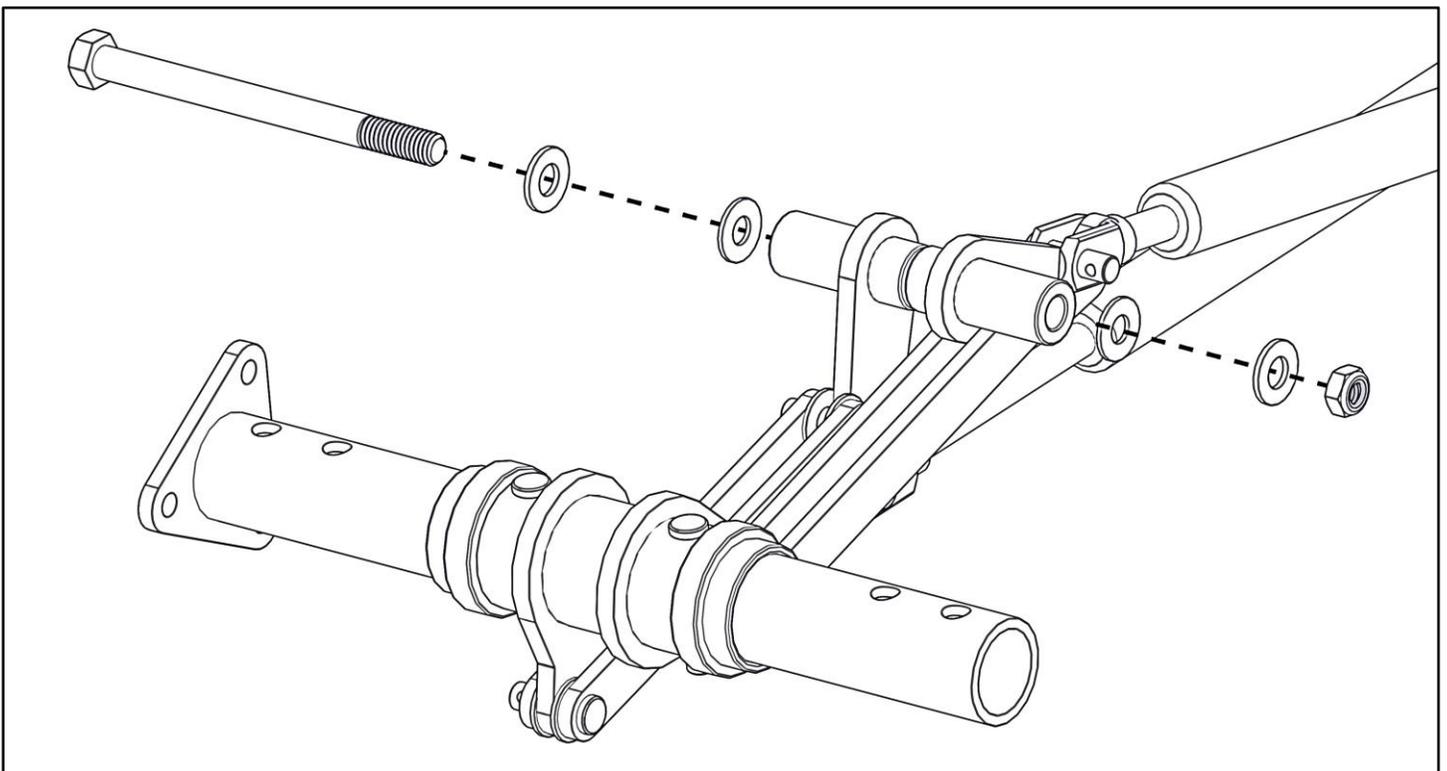
- Along the rear bow, install the damper assembly using the pre-assembled 3/8" hardware in the location shown.



- Attach the damper cantilever mechanism to the bow using the pre-assembled hardware as shown. **Be sure to keep the nylon washers in the correct locations. One goes in between the two damper mounts and one in between each damper mount and the bow.**

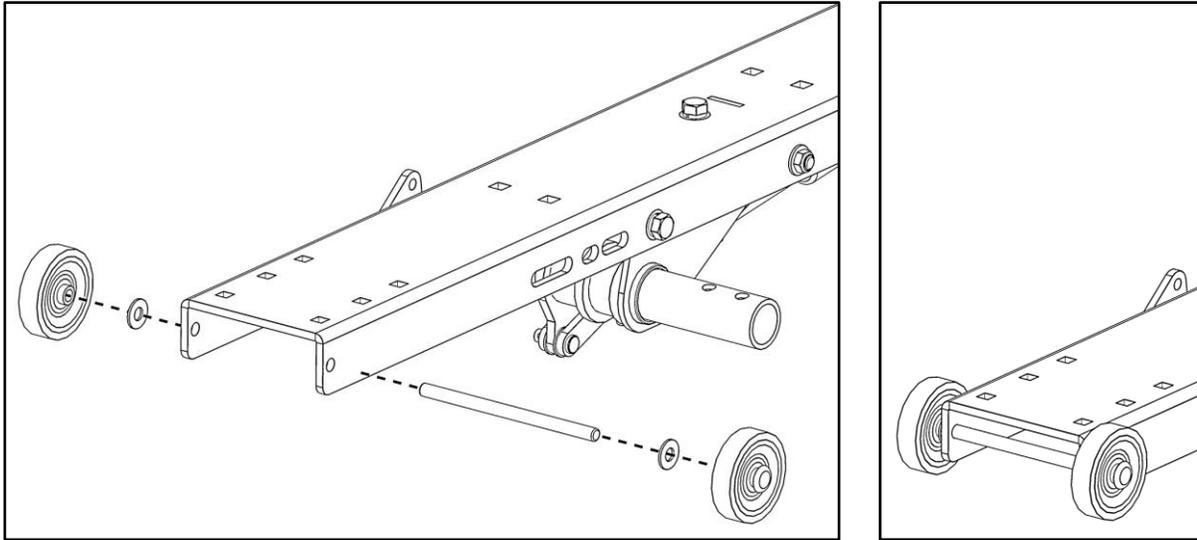


(Picture shown below is without the bow)



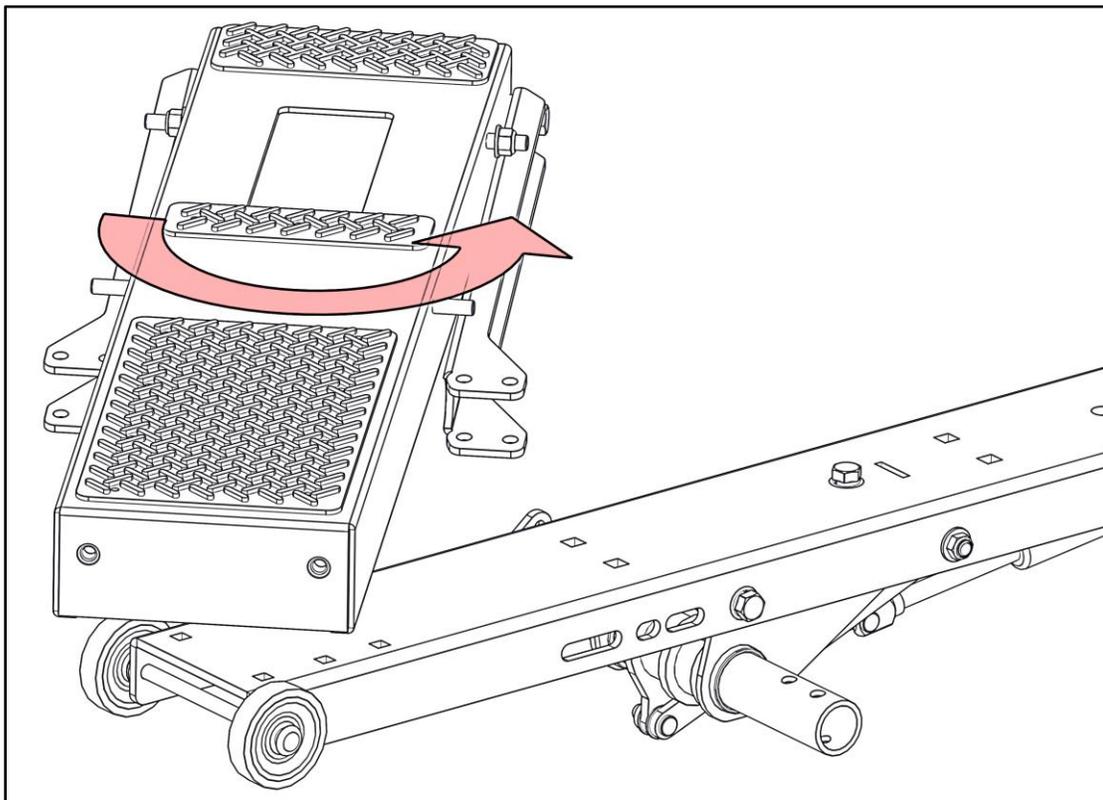
Step 7 – Install Rear Wheels

- Slide the axle into the end of the rear bow.
- Place a nylon washer and a wheel on each end of the axle as shown.
- **While installing the pan, be sure the wheels stay in position.**

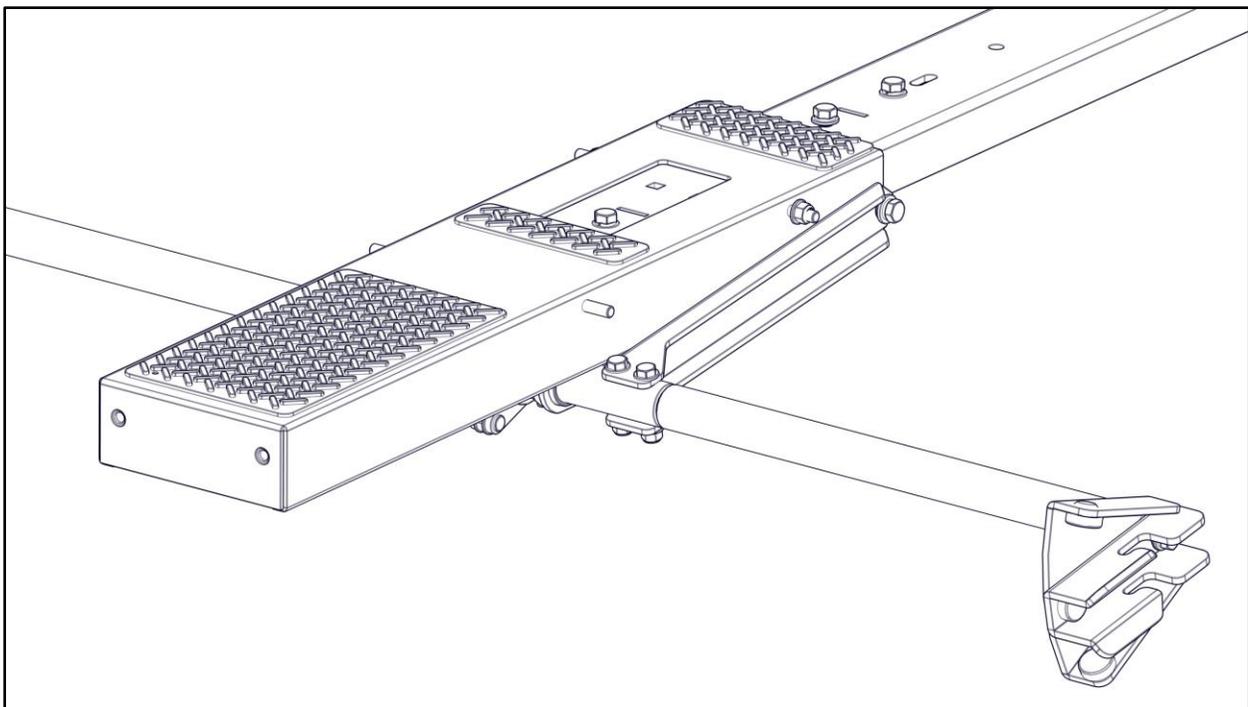
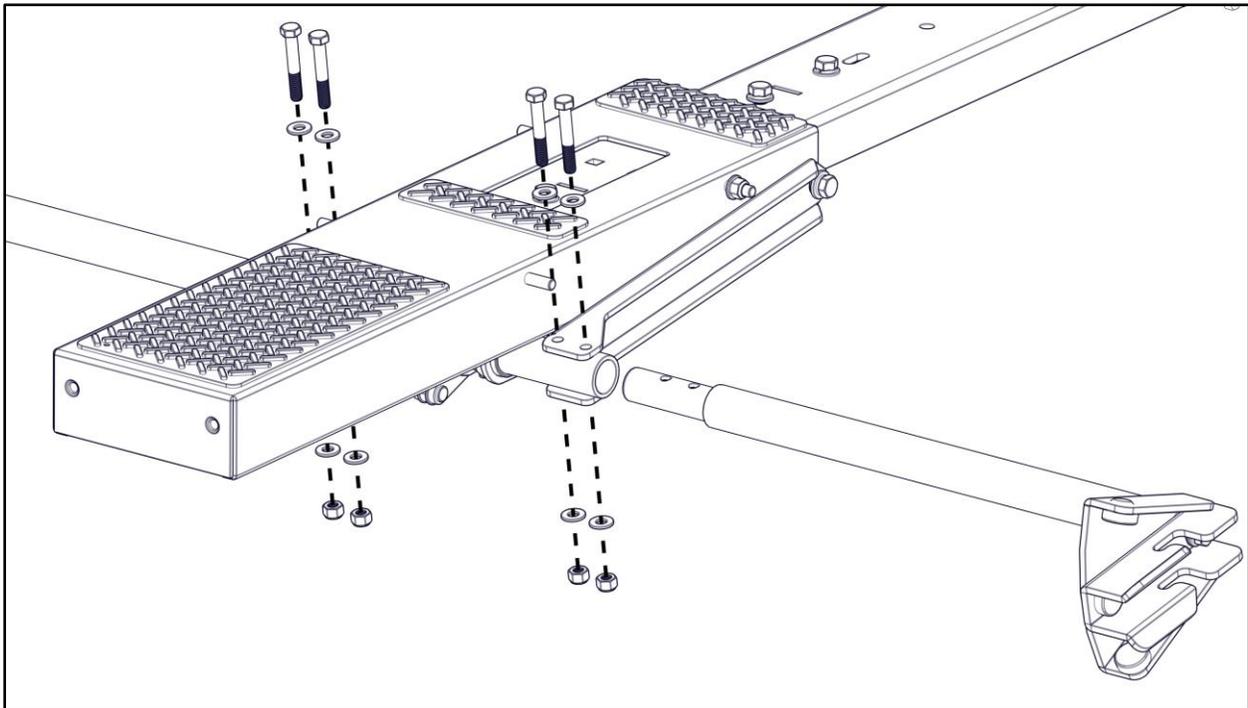


Step 8 – Install Rear Pan

- Remove the hardware from the arms in the pan.
- Rotate the pan and place over the previously installed wheels. Position the pan so it is parallel with the bow.

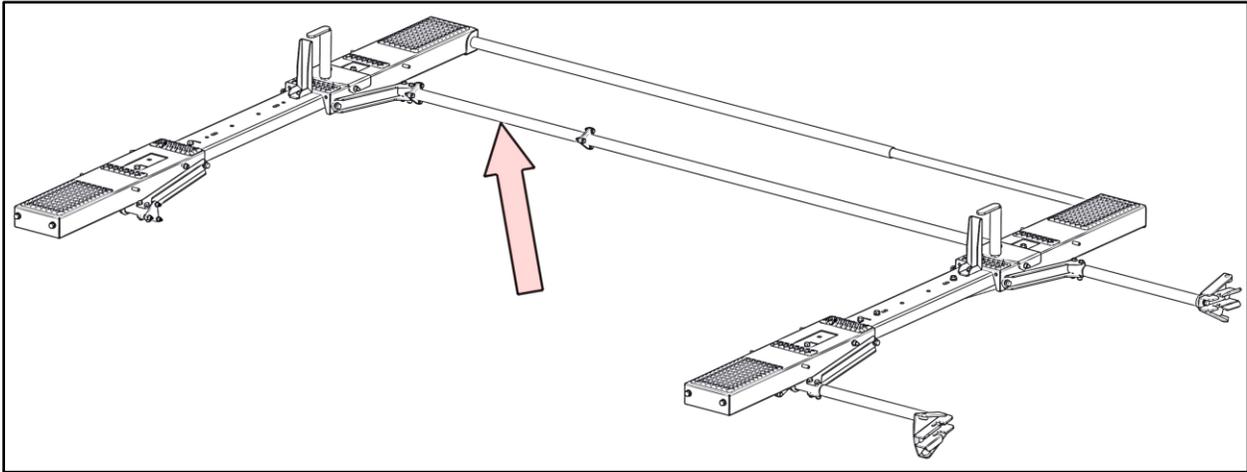


- Place the arms around the tube from the front bow mechanism.
- Insert handle assembly into the rear of the damper mechanism.
- Replace the hardware to attach the pan and handle assembly to the rear bow mechanism.

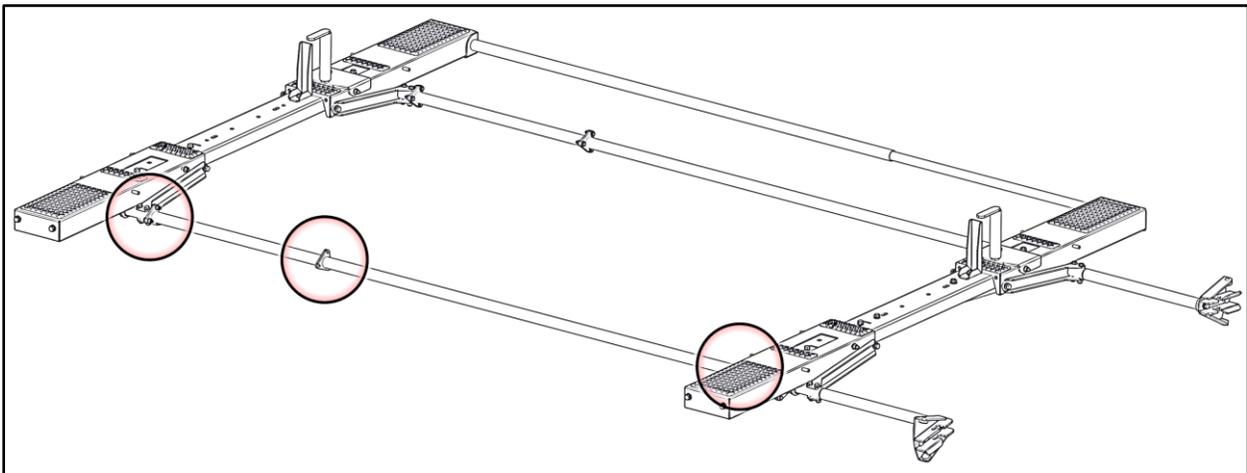


Step 9 – Install Torque Tube

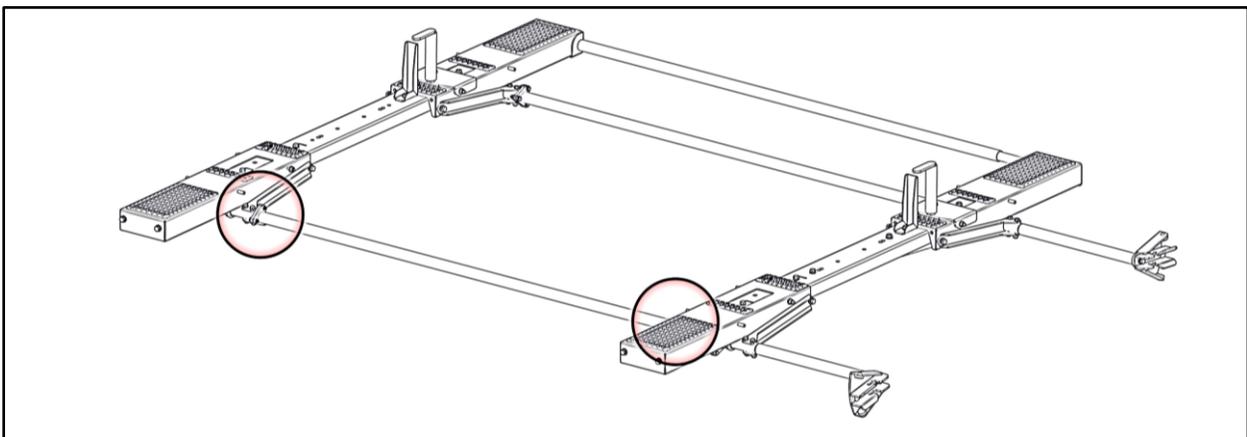
- Look at the passenger side of the rack. Notice if the extension on the torque tube is being used.



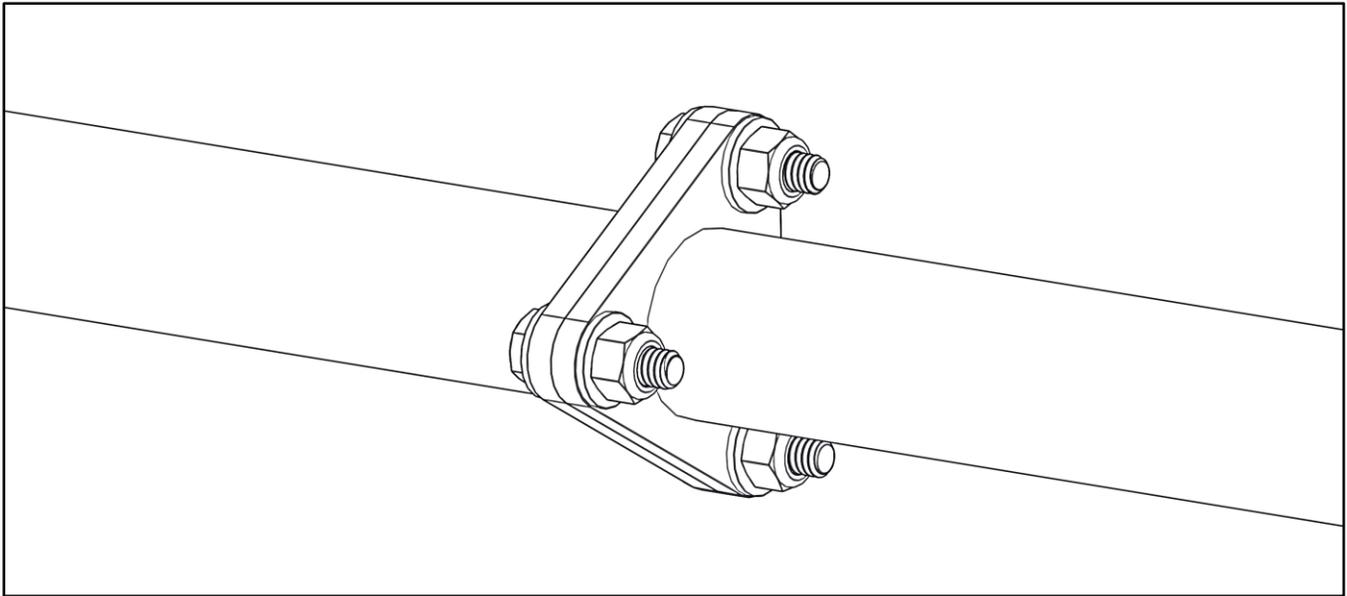
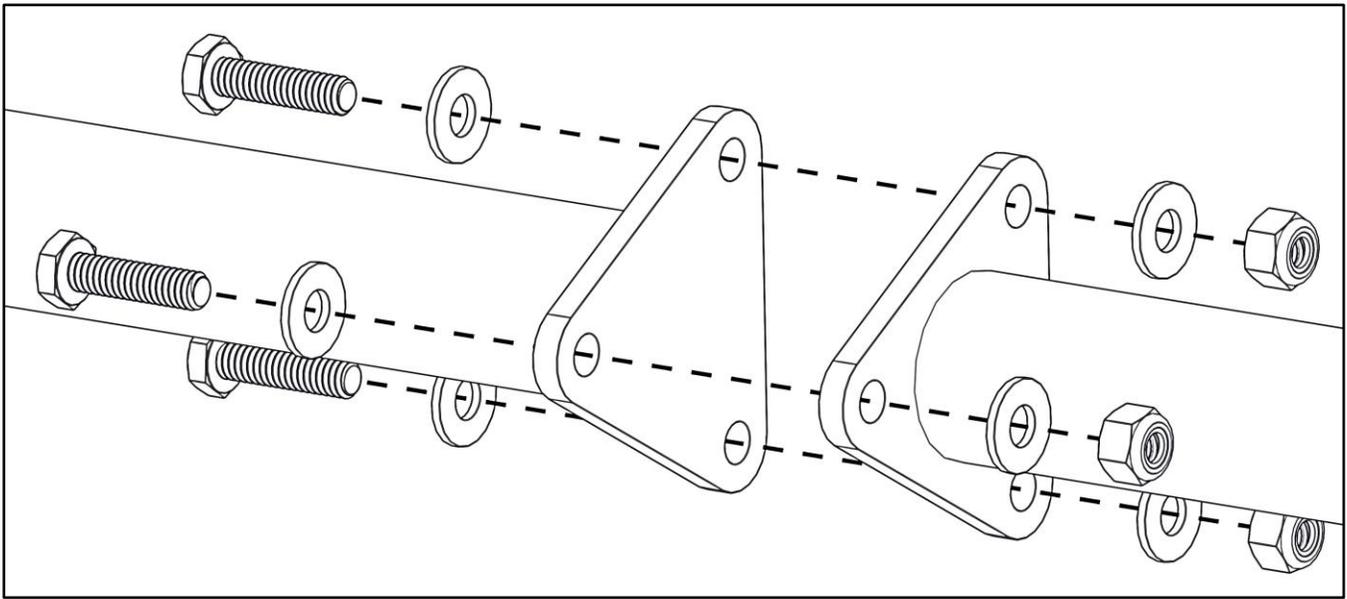
- If the extension is needed, assemble the extension to the torque tube the same way the torque tube attaches to the bows.



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

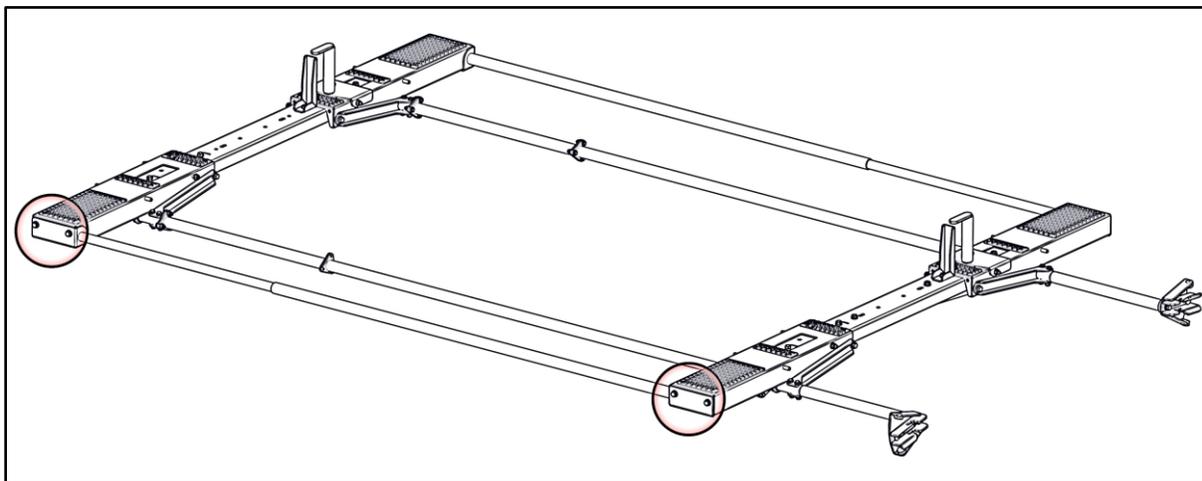


- Bolt the torque tube to the front and the rear bow using 1/4"-20 x 1" hex head bolt, two 1/4" flat washers and 1/4"-20 lock nut at each location. If the extension is used, bolt together using the same method.

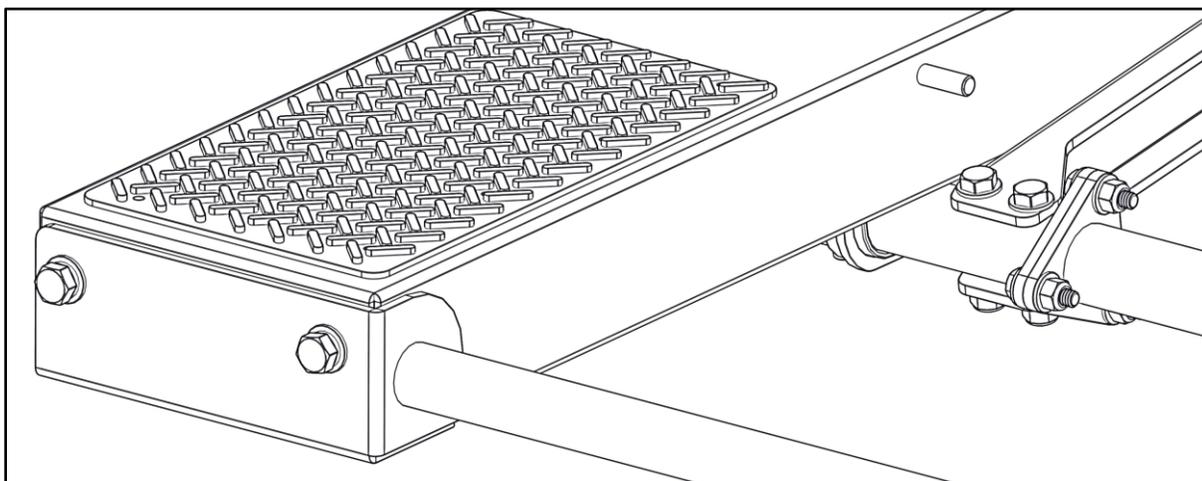
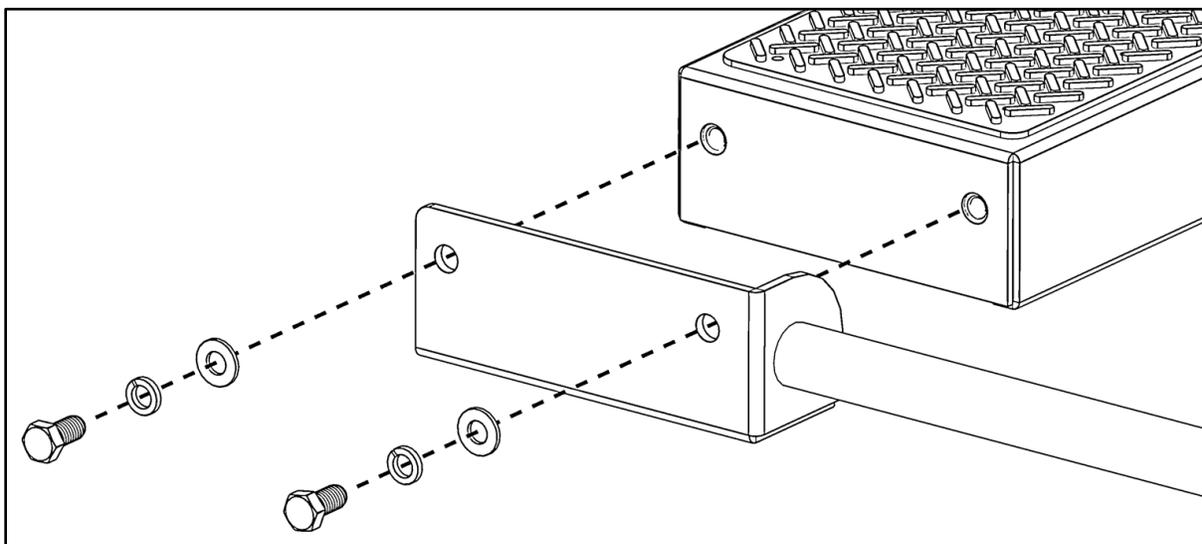


Step 10 – Install End Tube

- Attach the end tube to the end of both bows using 3/8" x 3/4" hex head bolts, 3/8" split lock washers and 3/8" flat washers in the orientation shown.
- Repeat at the end of both bows.



Front Bow Shown Below

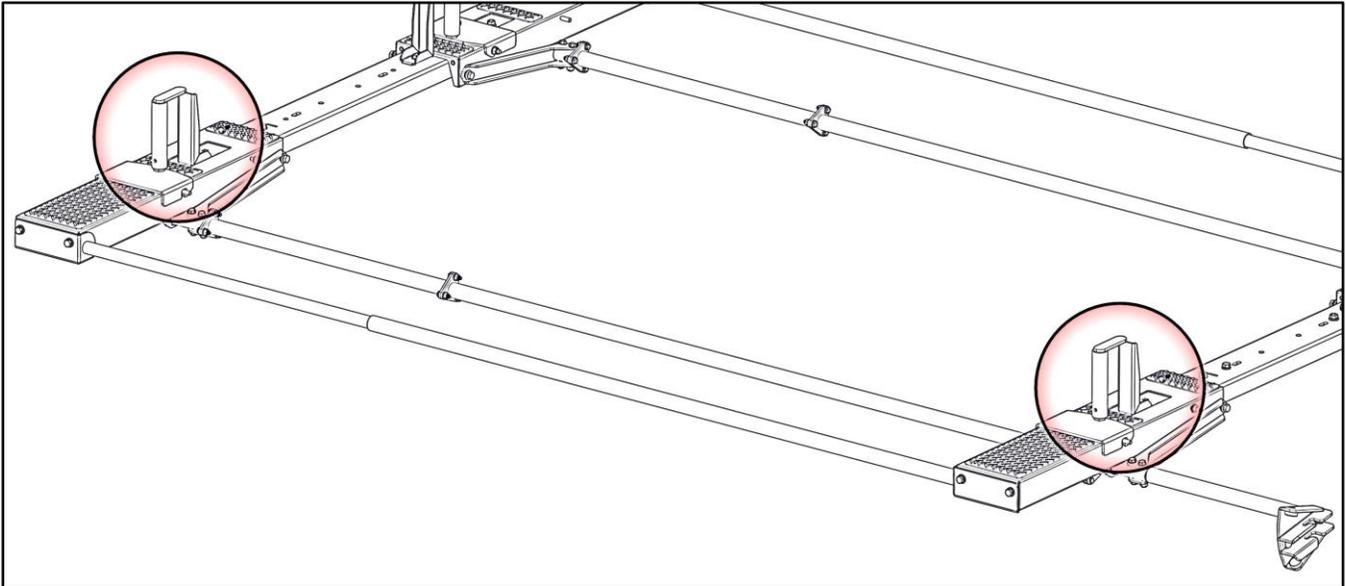


Step 11 – Install Ladder Clamps and Stops

- Determine the location the ladder bow and stop will need to be installed.

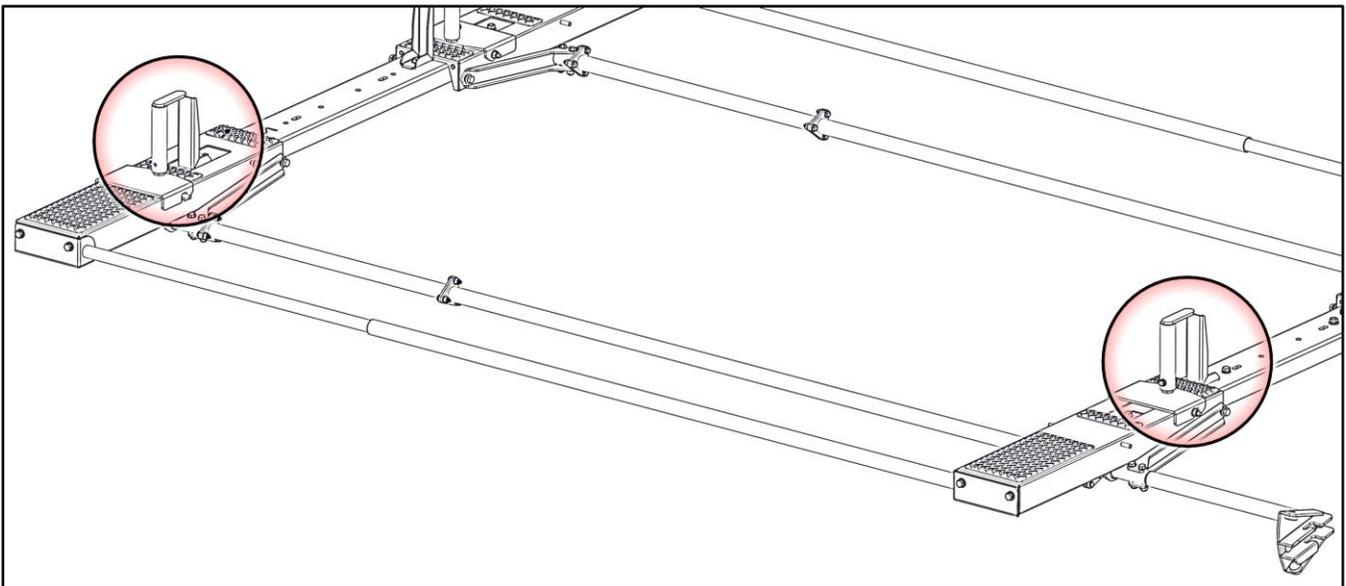
Location of ladder clamps and stops for standard extension ladders shown below.

(Both towards the end of the bow)

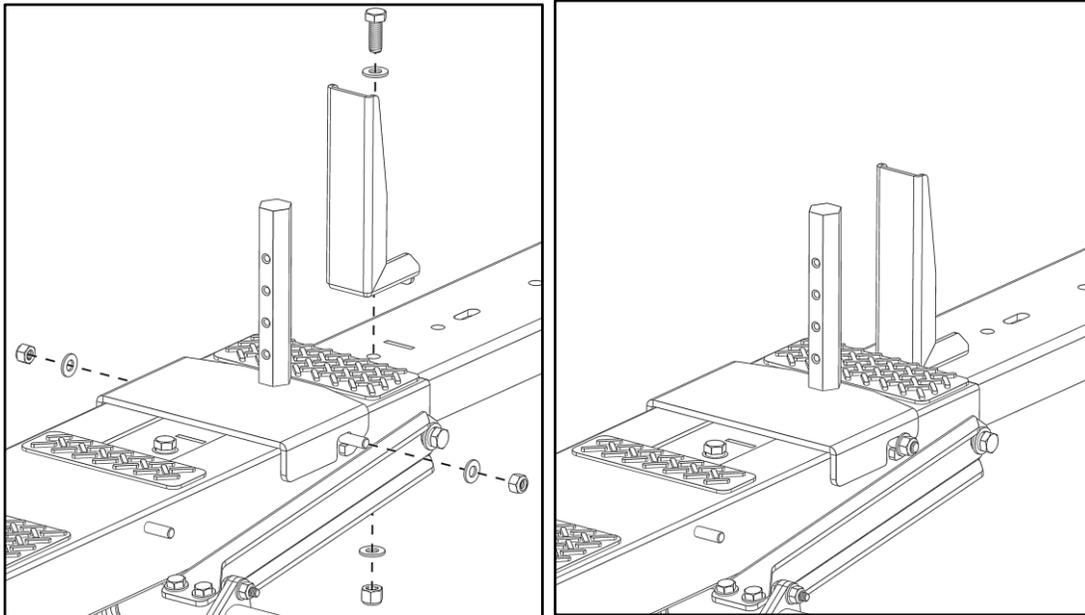


Location of ladder clamps and stops for standard step ladders shown below.

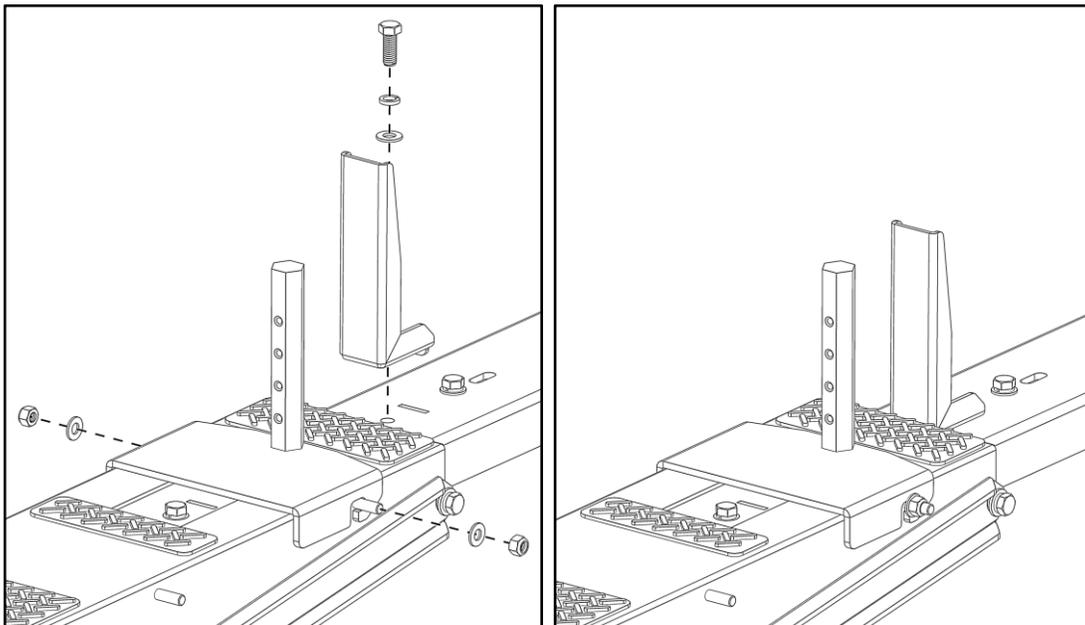
(Front bow in the low position, rear bow in the upper position)



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



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

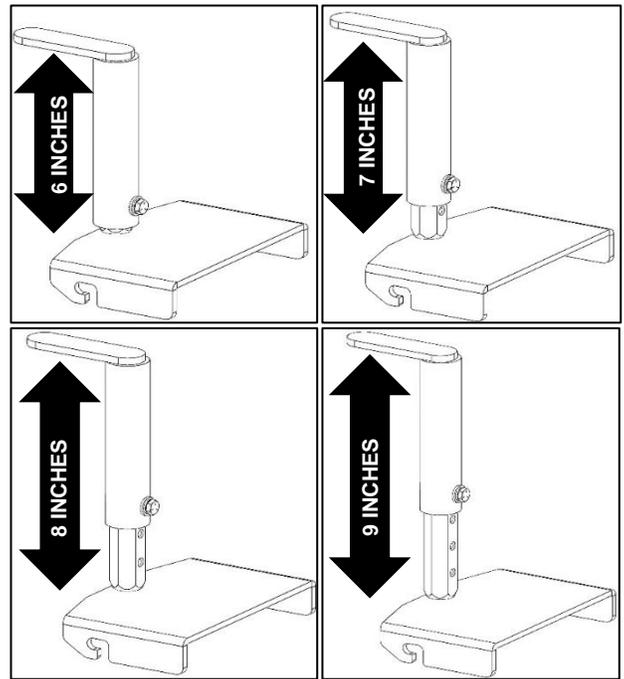


Step 12 – Assemble Ladder Hooks

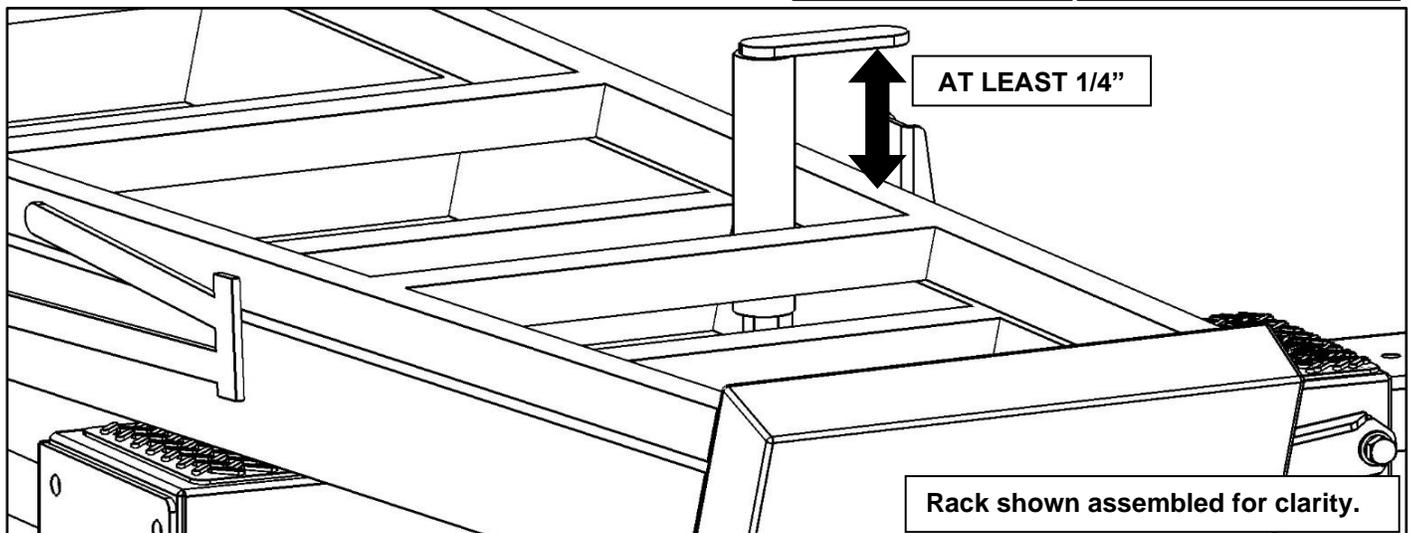
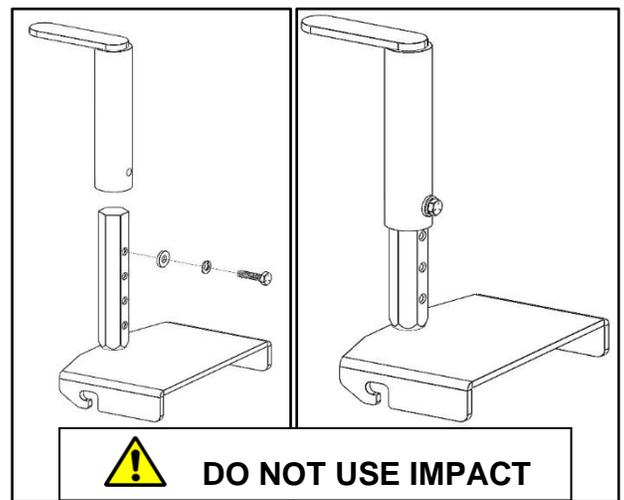
Note: Before use the ladder hook must be adjusted to an appropriate height for the ladder that will be used. The height of the hook needs to be at least 1/4" greater than the ladder. The ladder should fit loosely on the hook, not snug.

- Measure the thickness of the ladder that will be used and determine the appropriate mounting hole on the ladder hook weldment that will allow for a loose fit.
- **Be sure the height of the hook is AT LEAST 1/4" GREATER THAN the thickness of your ladder.**
- If you are unsure of the thickness of the ladder that will be used, set the height of the hook to the highest setting (9 inches) and adjust it later.

NOTE: Roof height clearance is affected by the hook mounting location used. Please verify and be aware of the total height of the vehicle with rack installed.

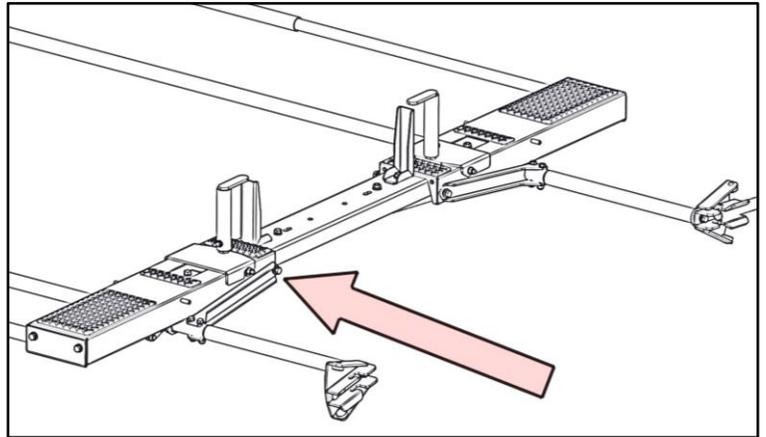


- Using a 1/4" x 1" hex head, a 1/4" lock washer and a 1/4" flat washer, bolt ladder hook assembly to ladder hook weldment using the previously determined mounting location.
- Tighten.

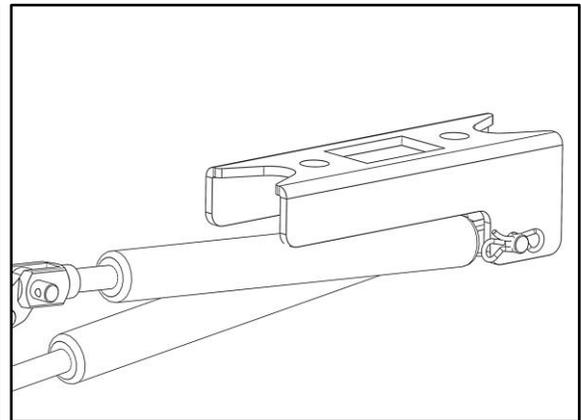
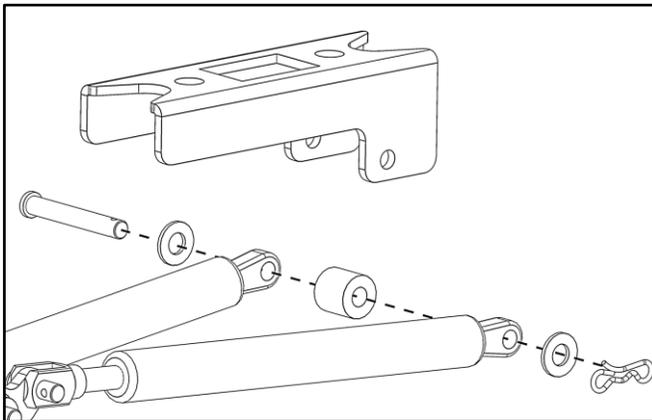


Step 13 – Attach Dampers

- Locate the dampers on the underside of the rear bow.



- Remove the pin and spacer.
- Attach the dampers to the damper mount. The nylon washers go in between the bracket and the dampers. Use the handle to pivot the bow if necessary, to attach. **Be sure to replace the pin.**



SQUARE AND POSITION THE RACK

START BY TIGHTENING THE FEET TO THE VEHICLE AND MOVING UPWARD AND OUTWARD ON THE RACK

INSTALLATION IS NOW COMPLETE

