

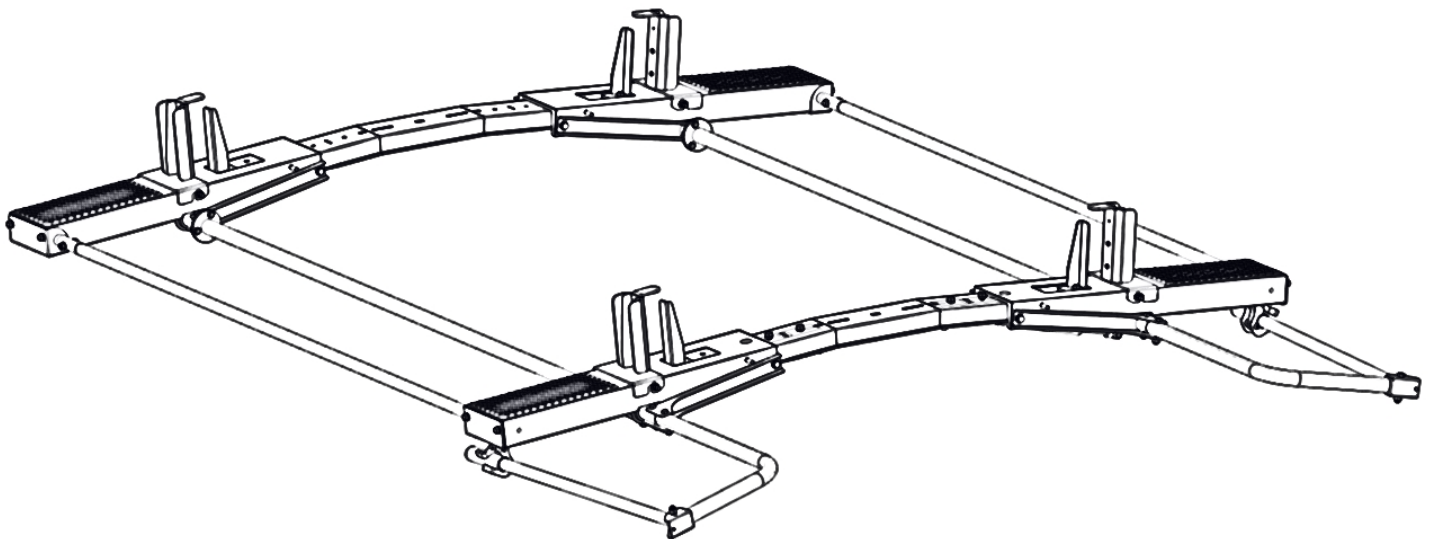
# Holman

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## Assembly Guide

40963

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Available at Contractor's Solutions: [www.Contractors-Solutions.net](http://www.Contractors-Solutions.net)

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

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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
7/16" Wrench and Socket	Tape Measure

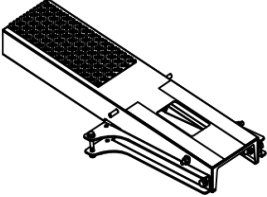
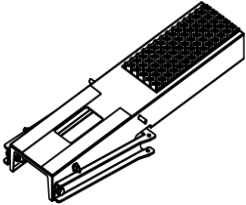
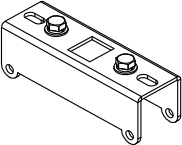
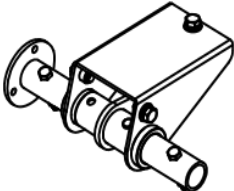
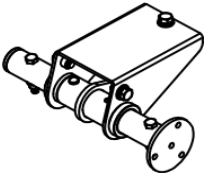
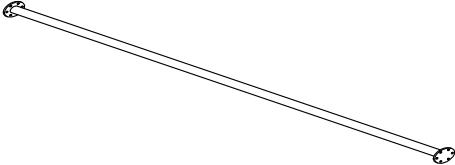
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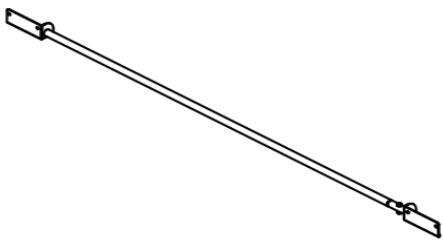
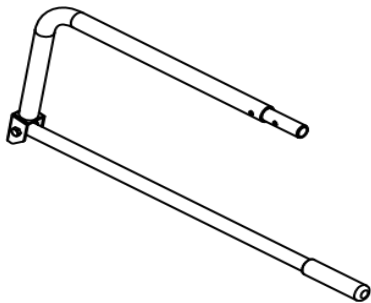


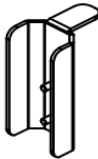

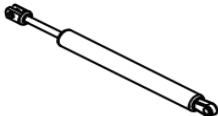
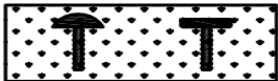
## **Before You Begin**

- Read all instructions.
- Have rack installed on vehicle.



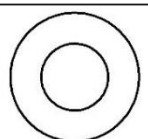
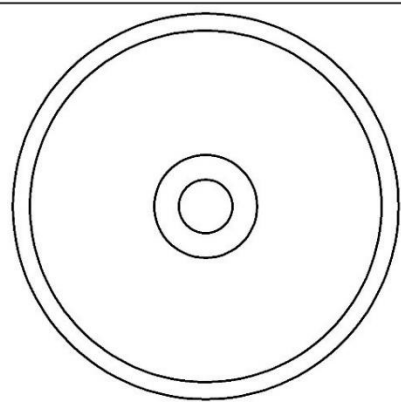
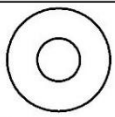
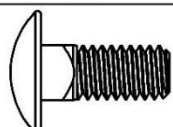
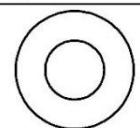
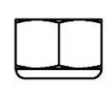
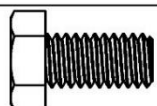
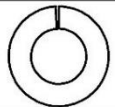
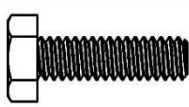
Parts

	PART NUMBER	QTY
	40800-05	1
	40800-06	1
	40800-07	2
	40800-08	1
	40800-16	1
	40800-21	1

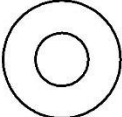

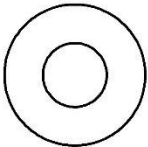
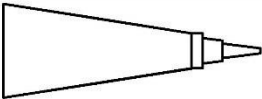
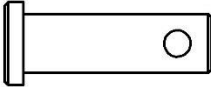
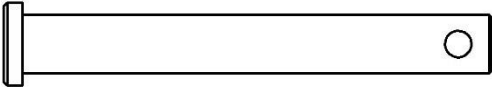
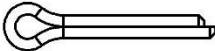
## PARTS Con't

PART	PART NO.	QTY
	40953-831	1
	40900-40-1	1
	40900-30-004	2
	40800-32	2
	40800-33-R2	2
	40900-43	1
	AVM SD500	2
	40963	1

## Hardware 1 of 2

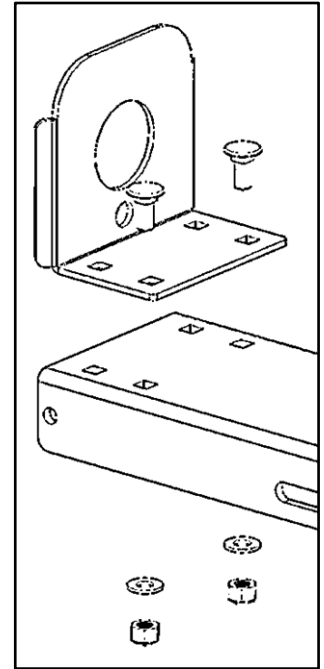
ITEM NO.		DESCRIPTION	QTY.
1		Rubber Bumper	2
2		AXLE	2
3		Nylon Washer	4
4		2-1/4" Wheel	4
5		Wheel Side Stopper	4
6		5/16"-18 X 3/4" Carriage Bolt	2
7		5/16" Flat Washer	6
8		5/16"-18 Nyloc	2
9		5/16"-18 x 5/8" Hex Head	4
10		5/16" Split Lock Washer	4
11		1/4"-20 x 7/8" Hex Head	6

Hardware 2 of 2

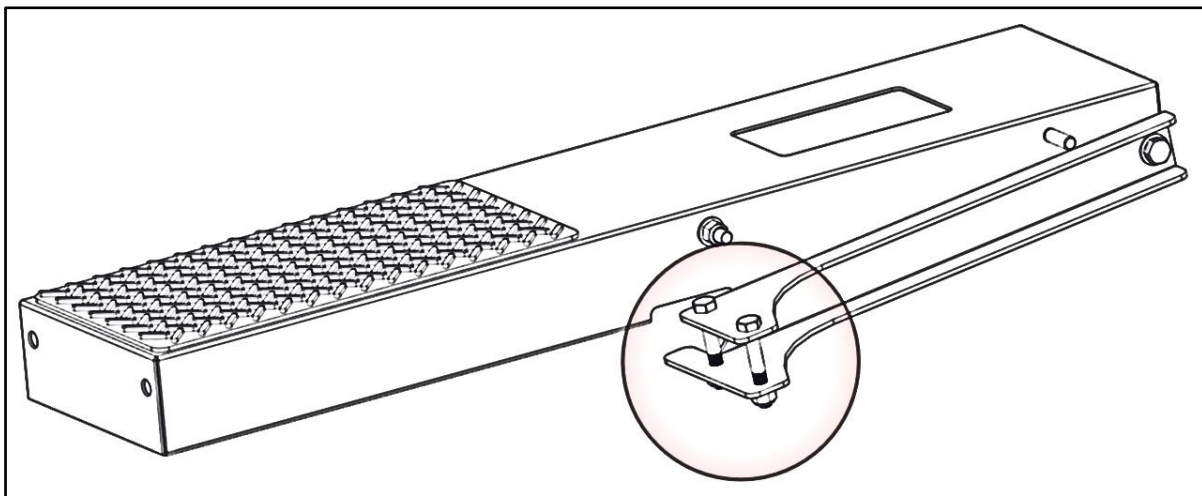
ITEM NO.		DESCRIPTION	QTY.
12		1/4" Flat Washer	12
13		1/4"-20 Nyloc	6
14		Nylon Spacer	4
15		Sealant	1
16		5/16" x 3/4" Pin	2
17		5/16" x 2.25" Pin	2
18		Cotter Pin	4

## **Step 1 – Load Plates**

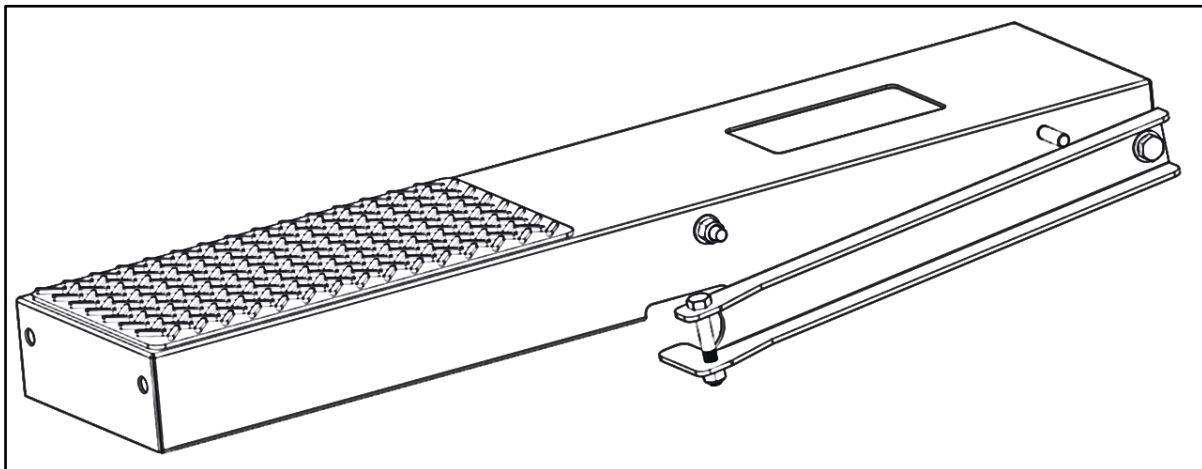
- If installed, remove load plates at the end of each bow, opposite from the pan mechanism.
- Repeat on both bows.



**NOTE: Determine front and rear pan. The rear pan will have two mounts on one arm.**



Rear Pan

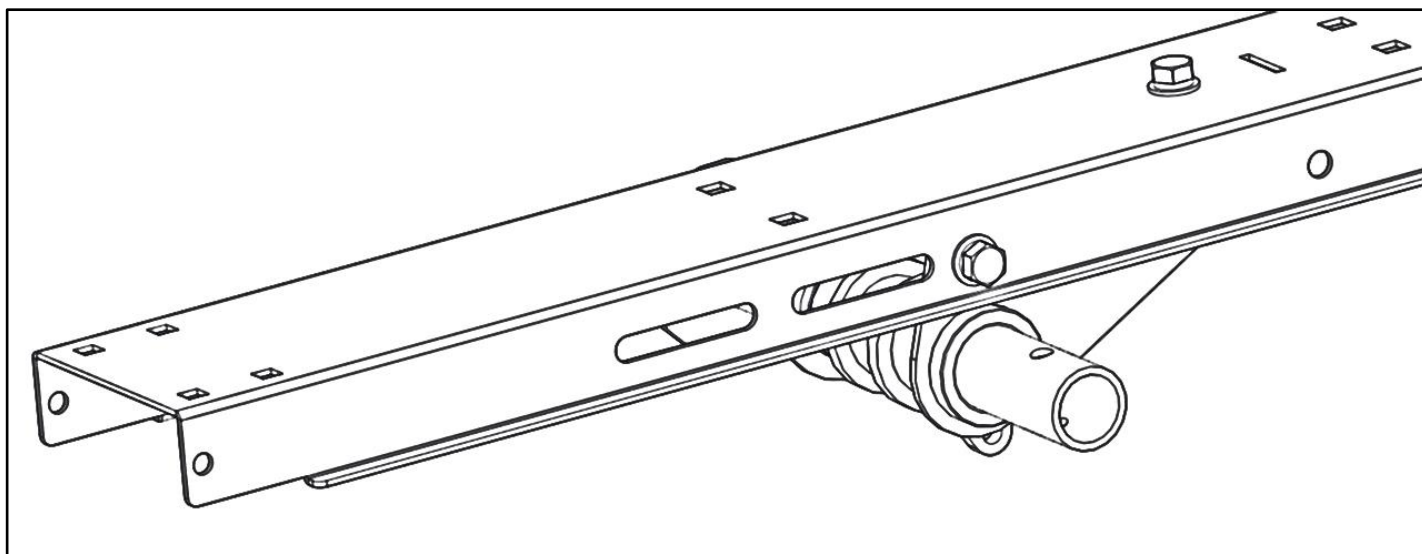
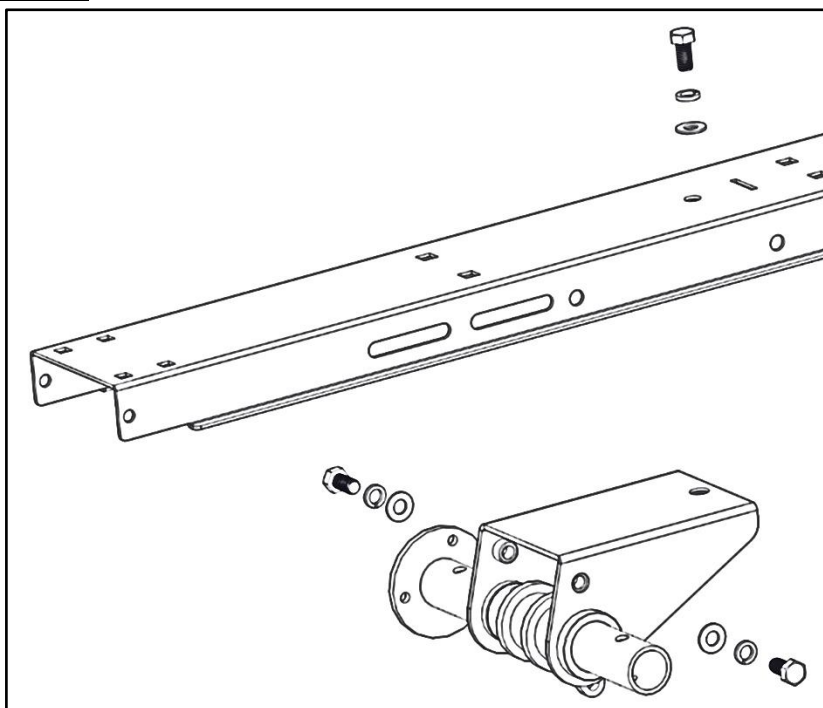


Front Pan

## Step 2 – Mount Cantilever Mechanism

- Mount cantilever mechanism to the under side of the rear bow in the location shown.
- Use existing hardware.
- **Be sure to have the flat-round piece towards the other bow assembly.**
- Snug tighten, but allow movement.

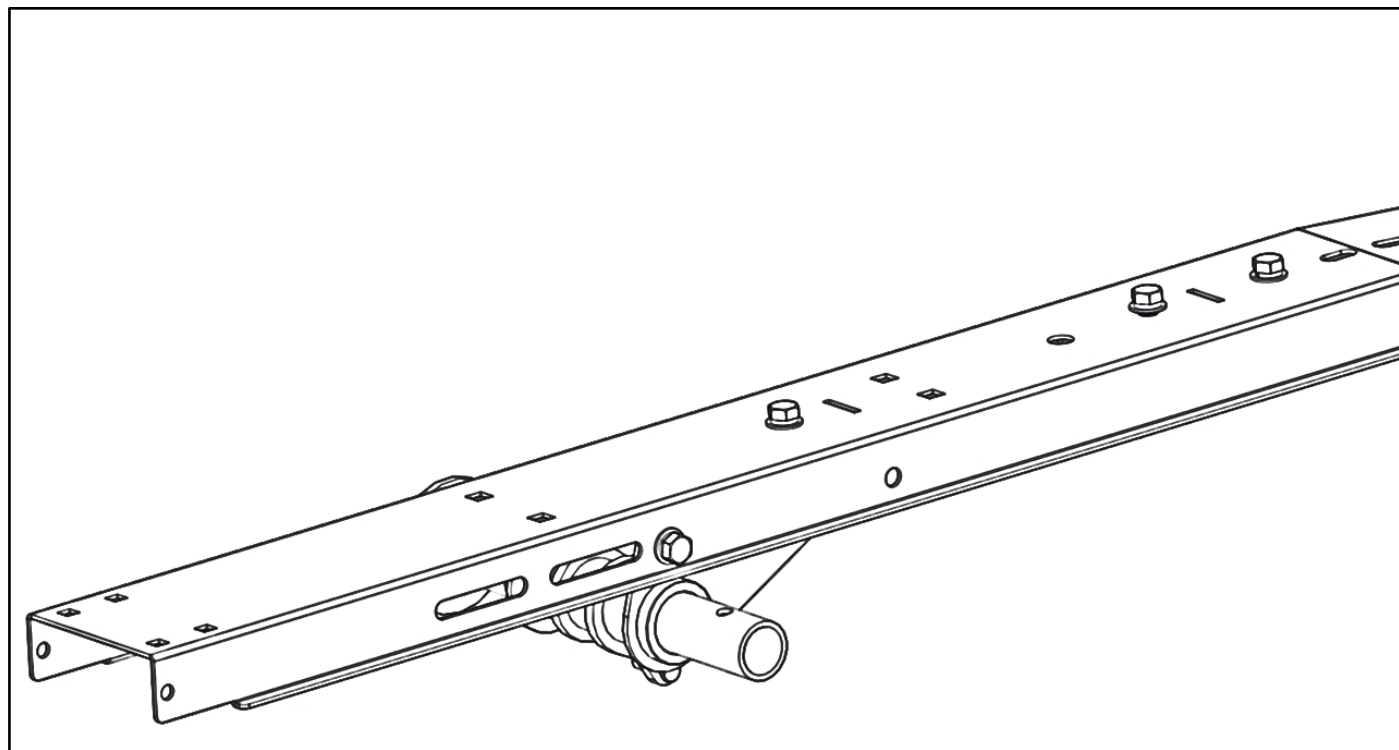
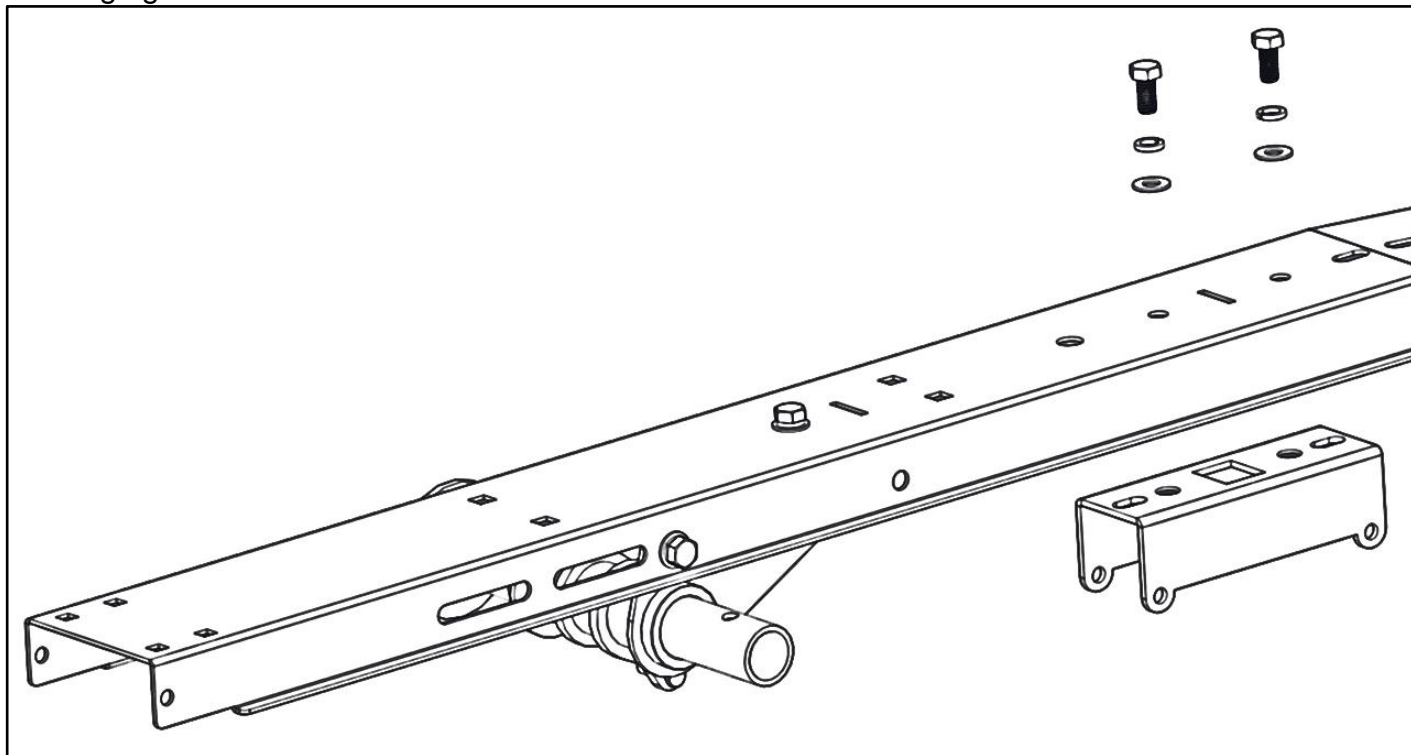
**NOTE: Removing foot may make installation easier.**





## **Step 3 – Install Damper Mount**

- Install dampers in orientation shown on the rear bow.
- Use existing 3/8" hardware for installation.
- Snug tighten.

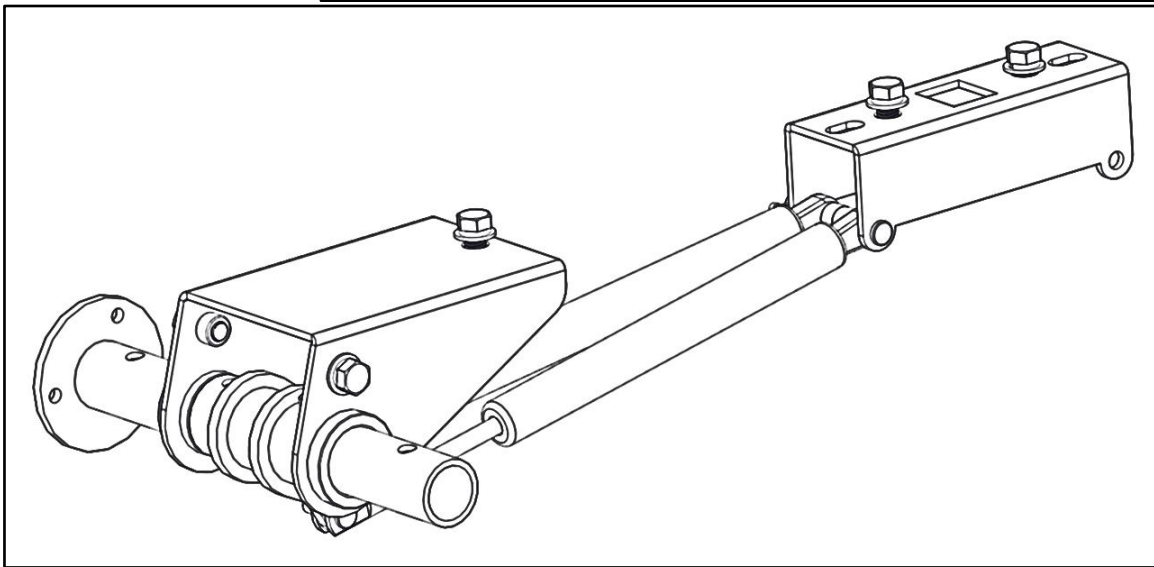
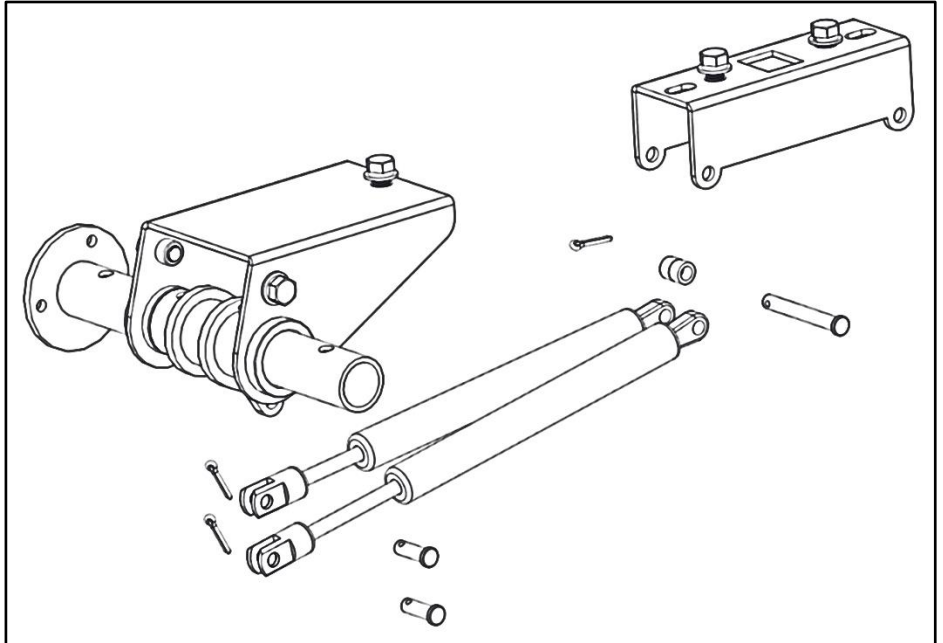


## Step 4 – Install Dampers

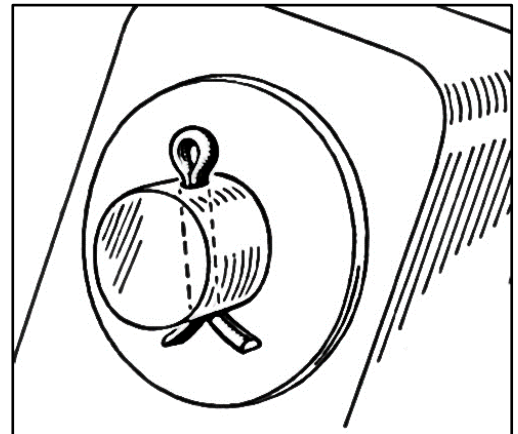
- Install dampers in orientation shown.

**NOTE: Shown without bow for clarity.**

- Install end of damper to damper mount using 2" 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 length of the damper.

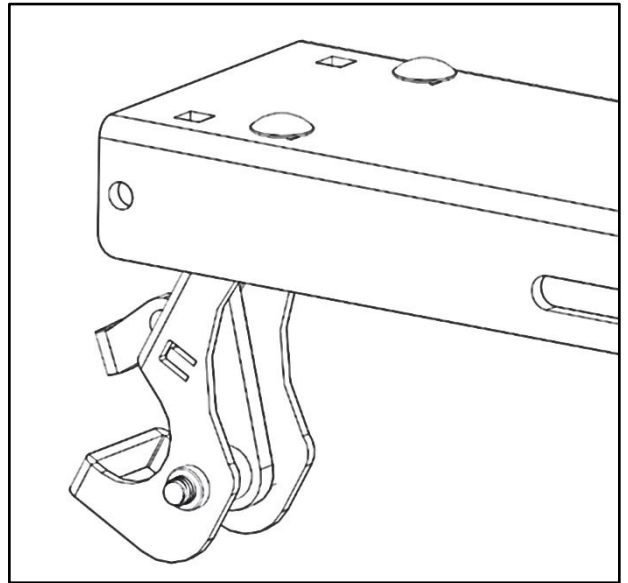
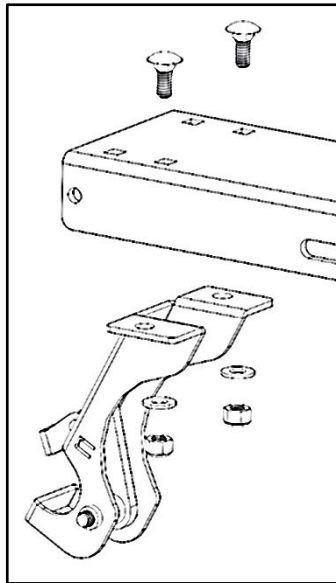


- Use cotter pin to ensure dampers stay in place.
- **Be sure to bend the open end of the cotter pin to ensure the pin stays in place.**



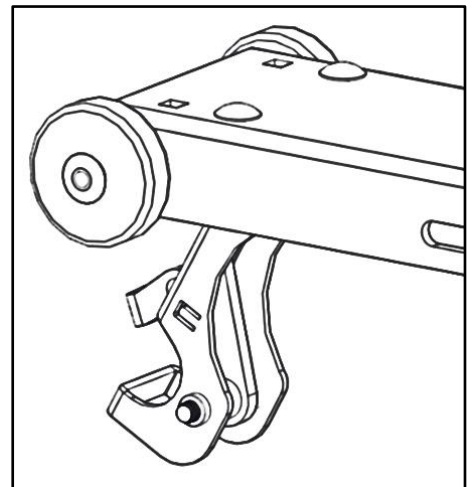
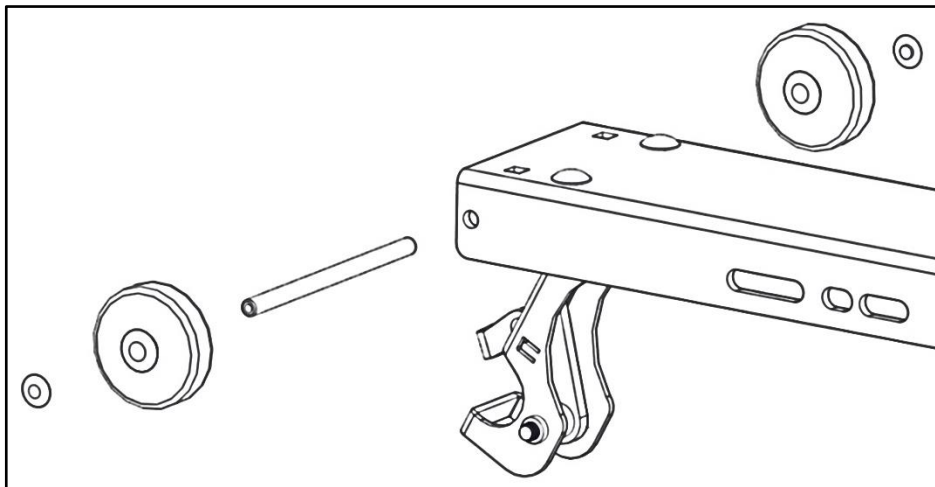
## Step 5 – Install Latch ASM

- Install latch assembly to the exposed end of the rear bow.
- Use 5/16" x 3/4" carriage bolts, 5/16" flat washers and 5/16" lock nuts in orientation shown.



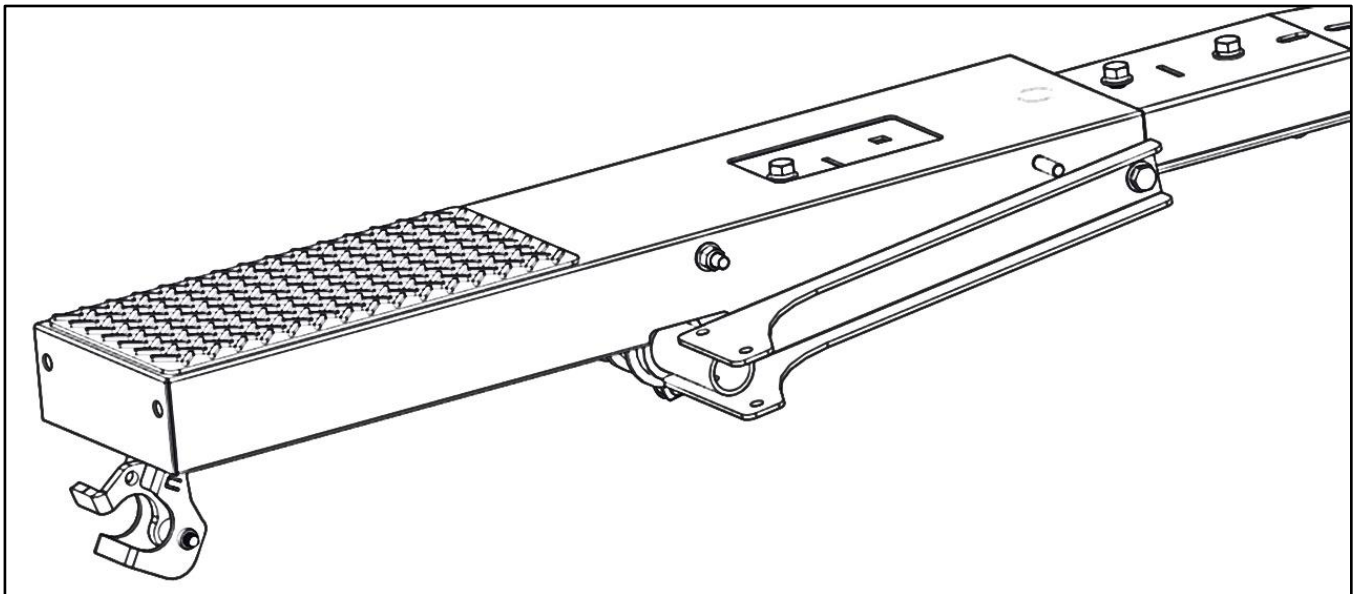
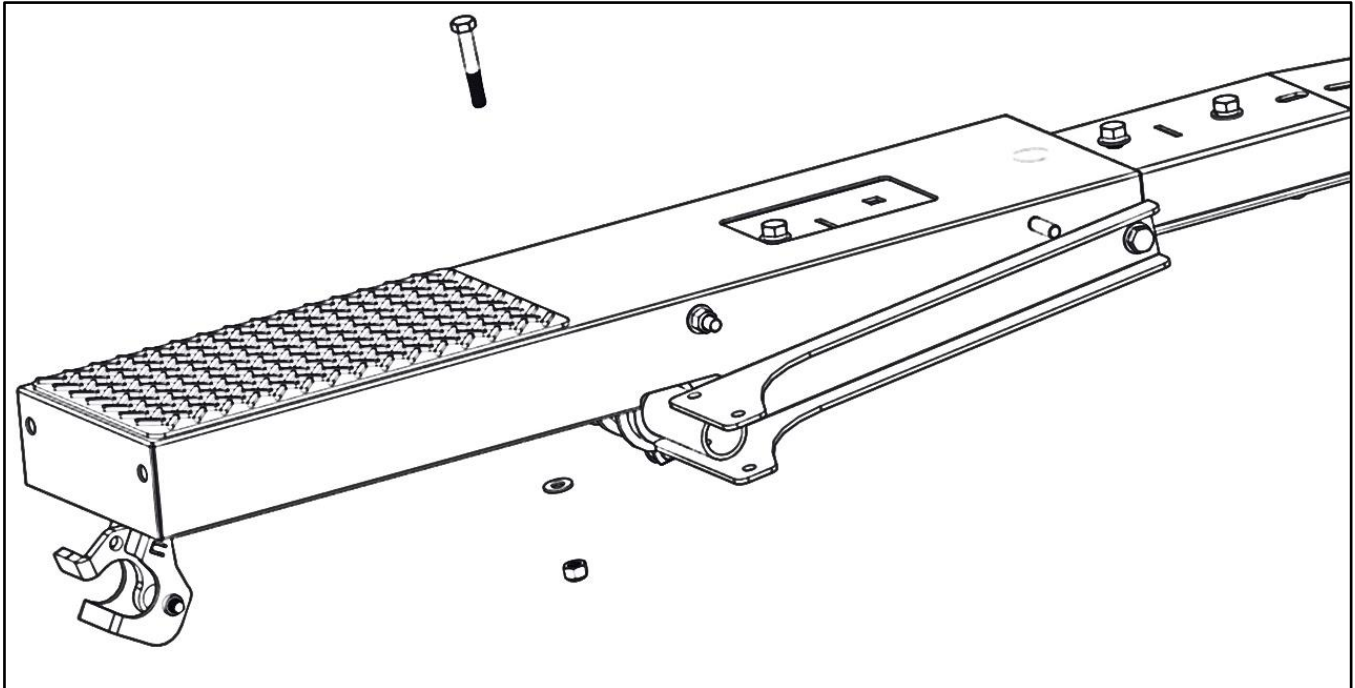
- Install wheel assembly.
- Slide wheel axle in the end of the rear bow. Place a wheel on each end of the axle. Cap the wheel with wheel stopper.

**WHEN INSTALLING PAN, BE SURE THE WHEEL CAP STOPPER STAYS IN PLACE.**



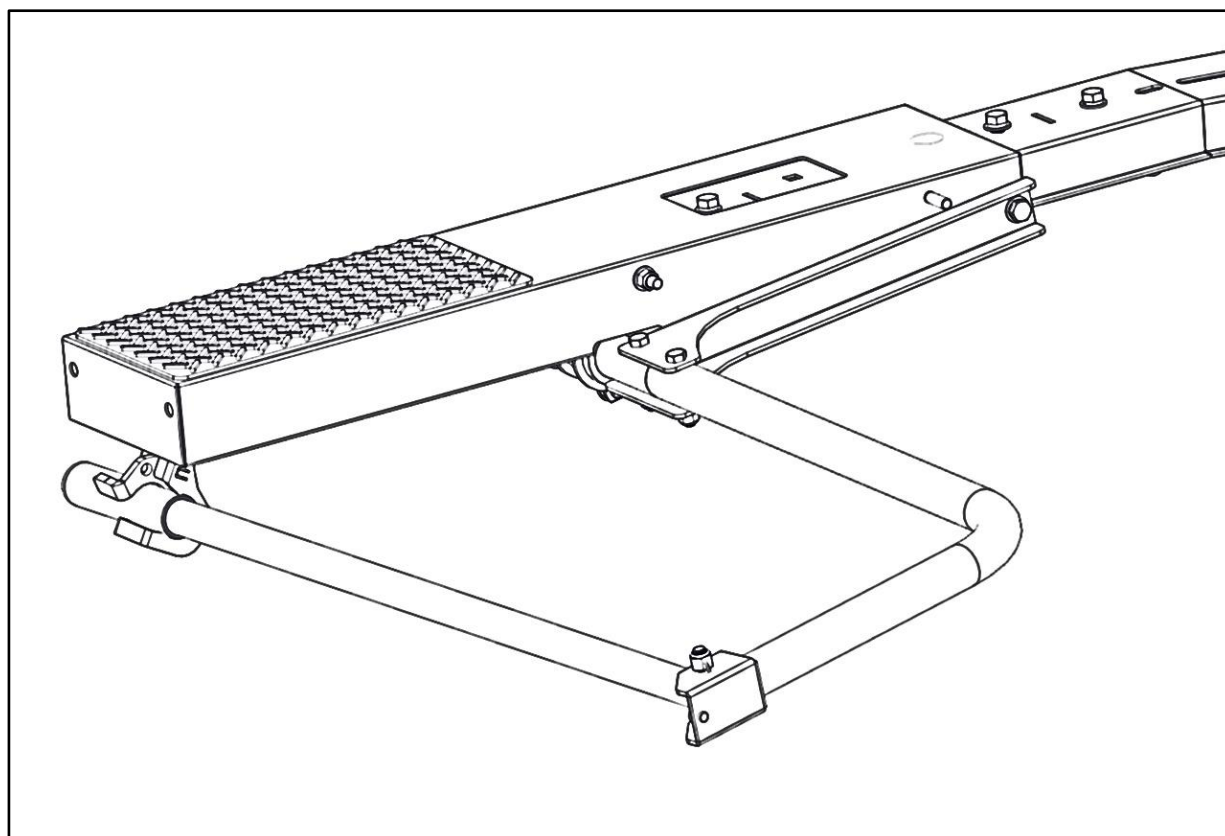
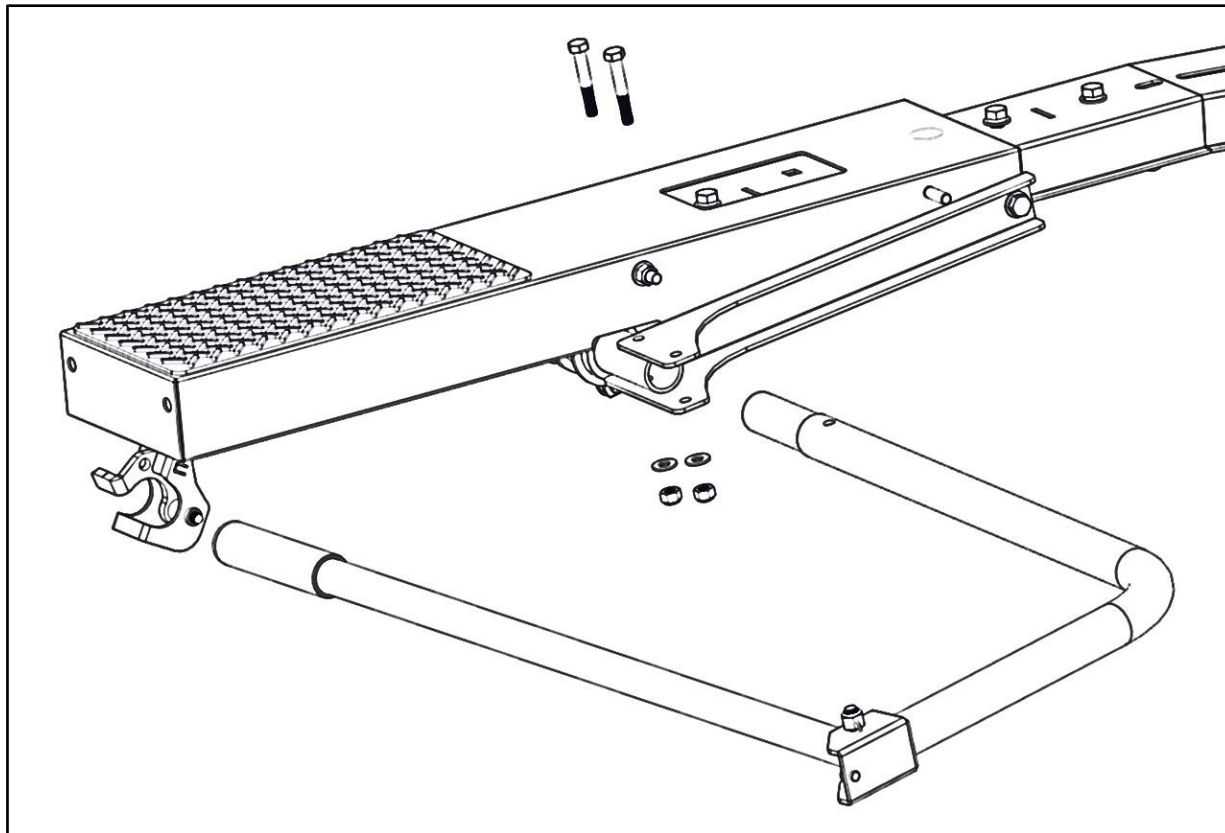
## Step 6 – Install Rear Pan

- Place rear pan on top of wheels and bow. **Be sure the wheel caps do NOT come off.**
- Slide arm from bow, and align ONE hole with hole in the cantilever tube mechanism in the position shown.
- Bolt together using existing hardware, only use 1 bolt, leaving the holes shown empty.
- These empty holes will be filled when installing the handle.
- Snug tighten, but allow movement.



## **Step 7 – Attach Handle**

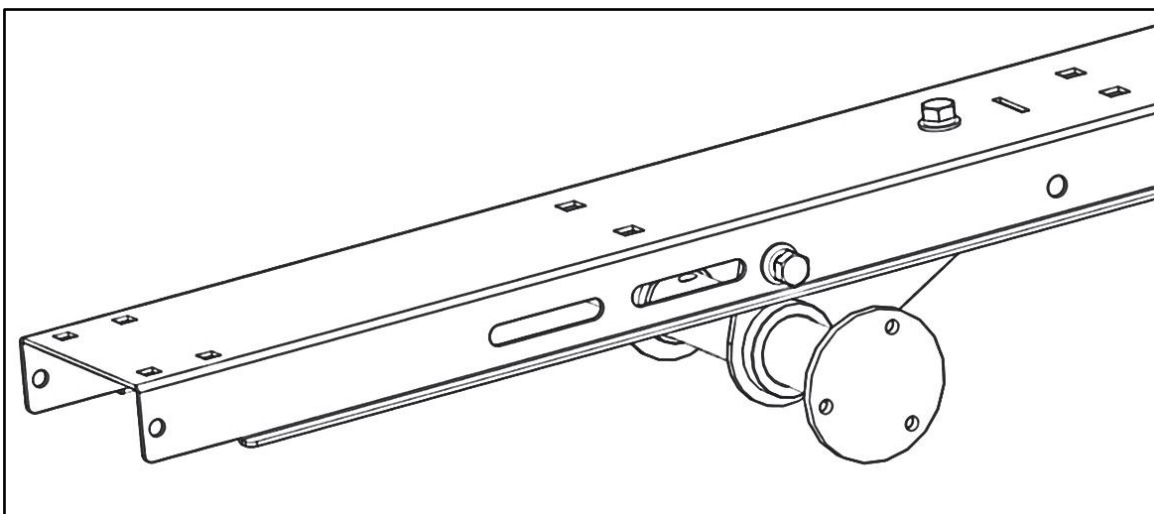
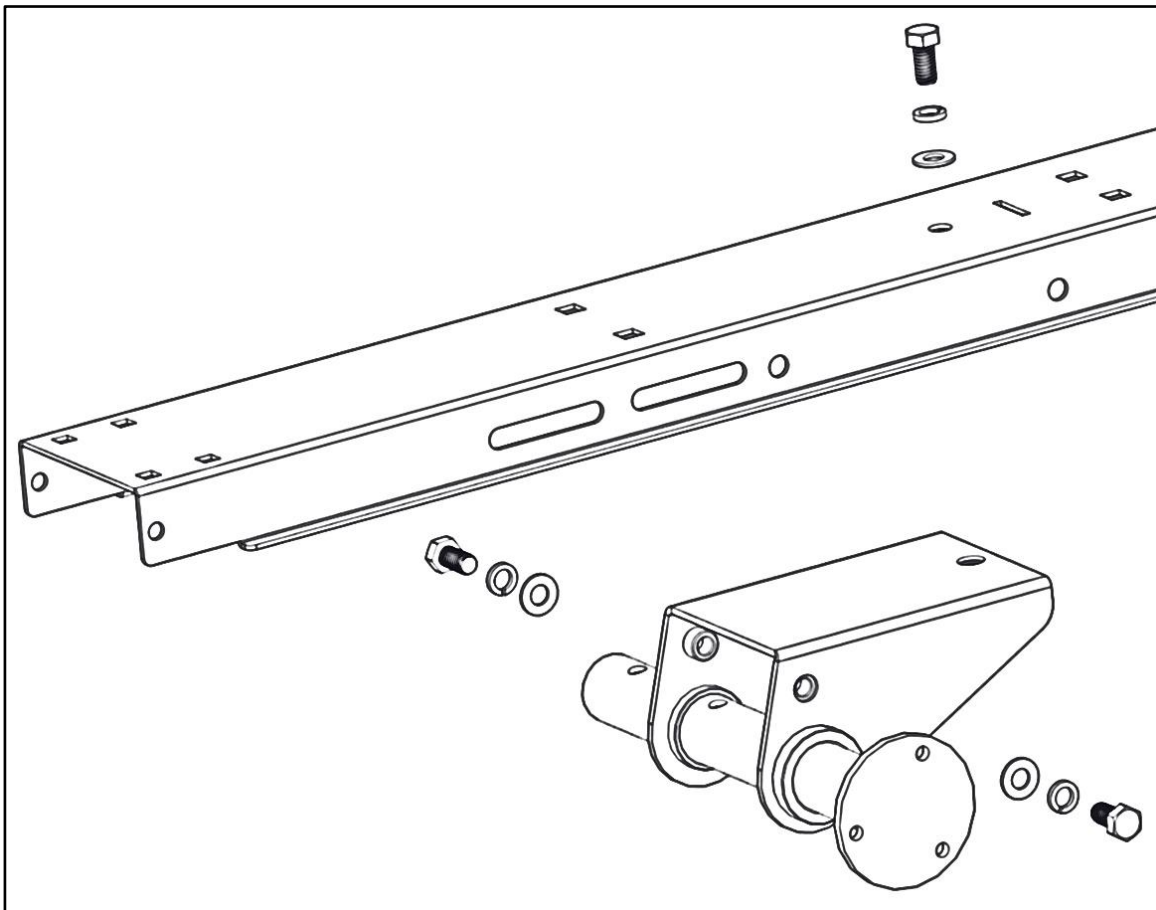
- Attach handle to rear pan using hardware removed in previous step.
- TIGHTEN.





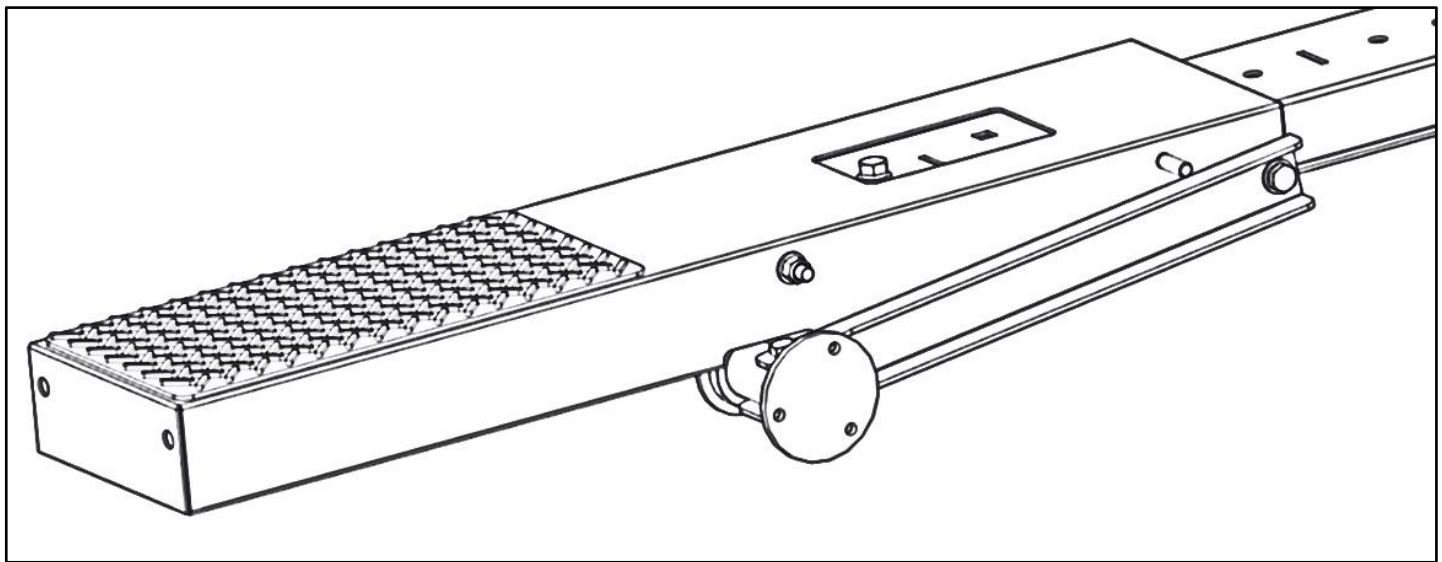
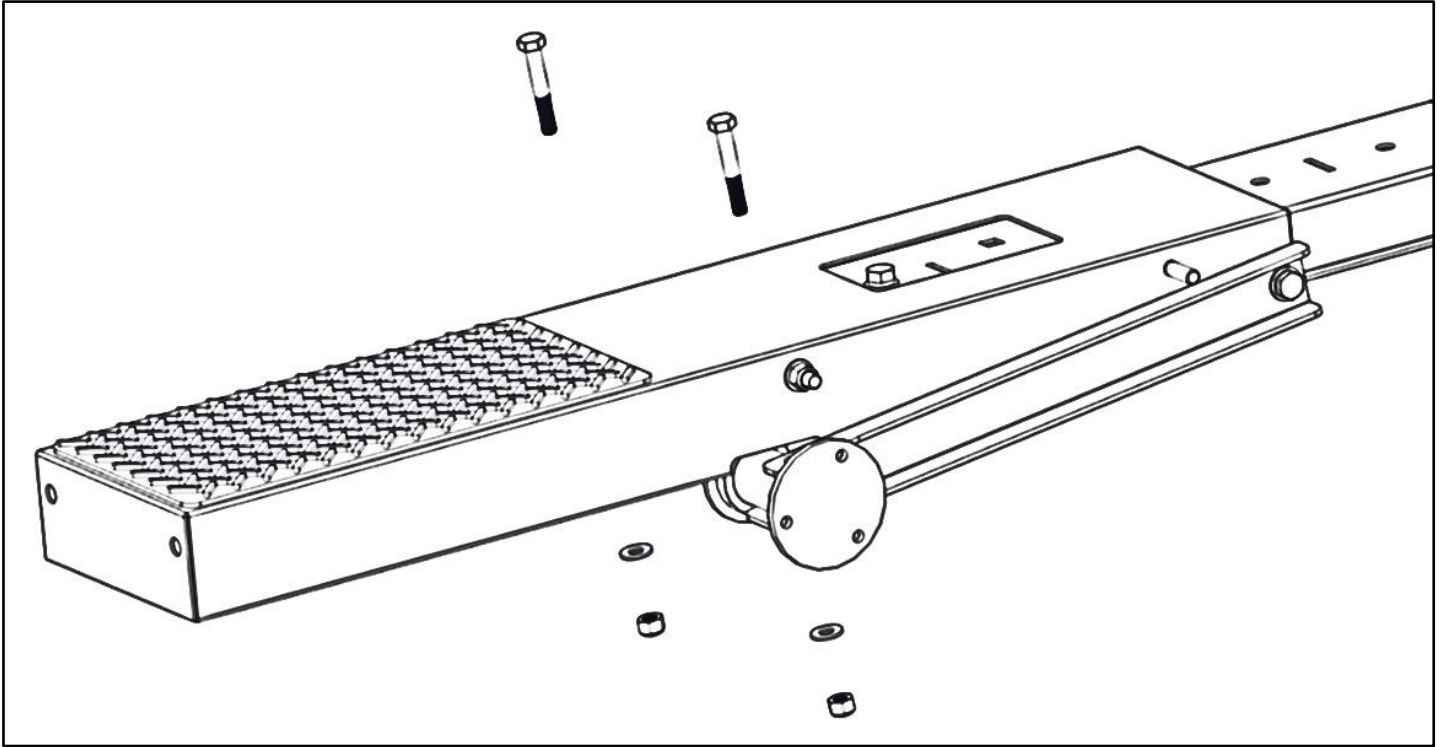
## Step 8 – Install Front Mechanism

- Place cantilever housing under bow as shown.
- Bolt cantilever housing to bow using existing bolts.
- Bolt together using existing hardware. There are three sets of hardware attaching the cantilever housing to the bow.
- **Be sure to have the round part of the mechanism towards the previously installed rear bow.**
- Snug tighten, but allow movement.



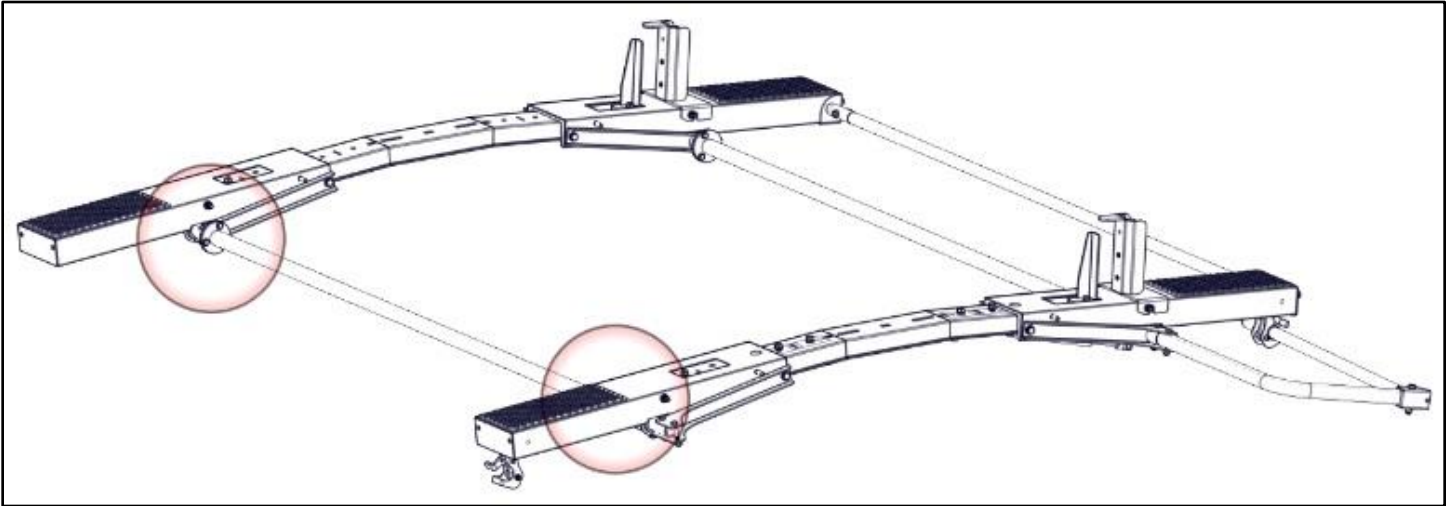
## **Step 9 – Install Front Pan**

- Place front pan on top of front bow.
- Bolt pan arms to cantilever housing using existing bolts.
- Snug tighten, but allow movement.

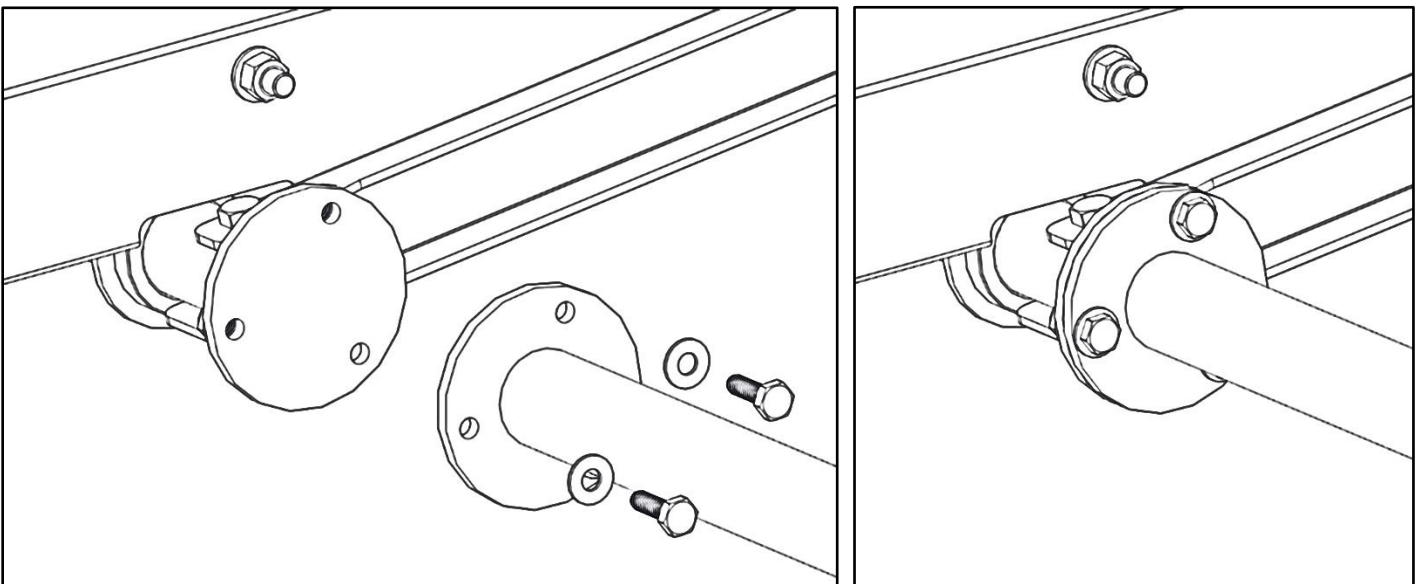


## **Step 10 – Install Torque Tube**

- Install torque tube to front pan assembly.



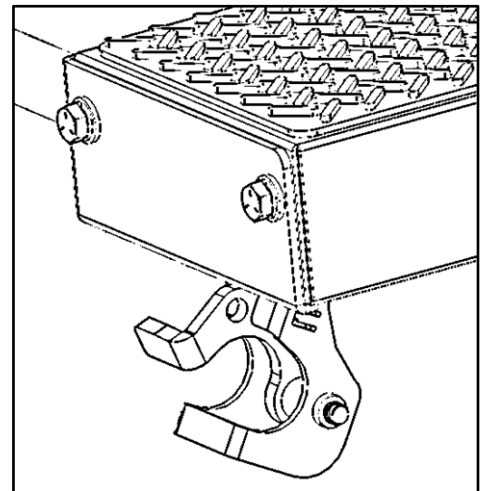
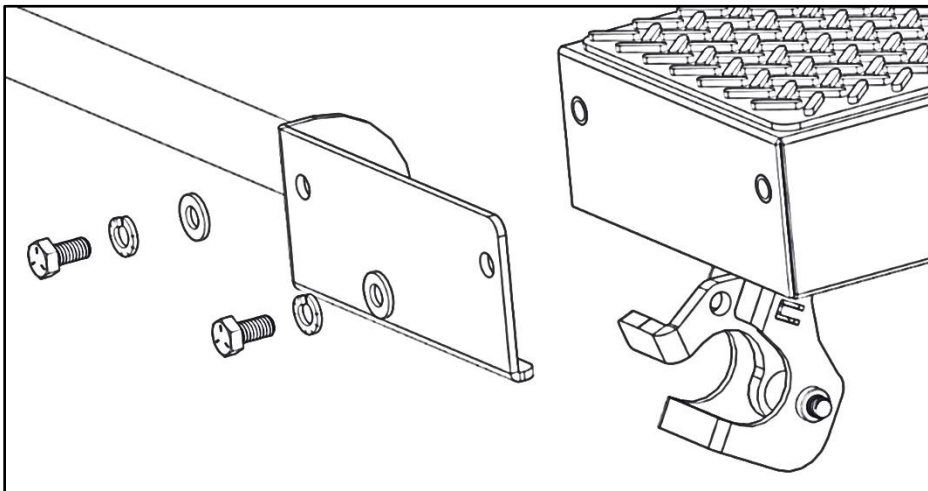
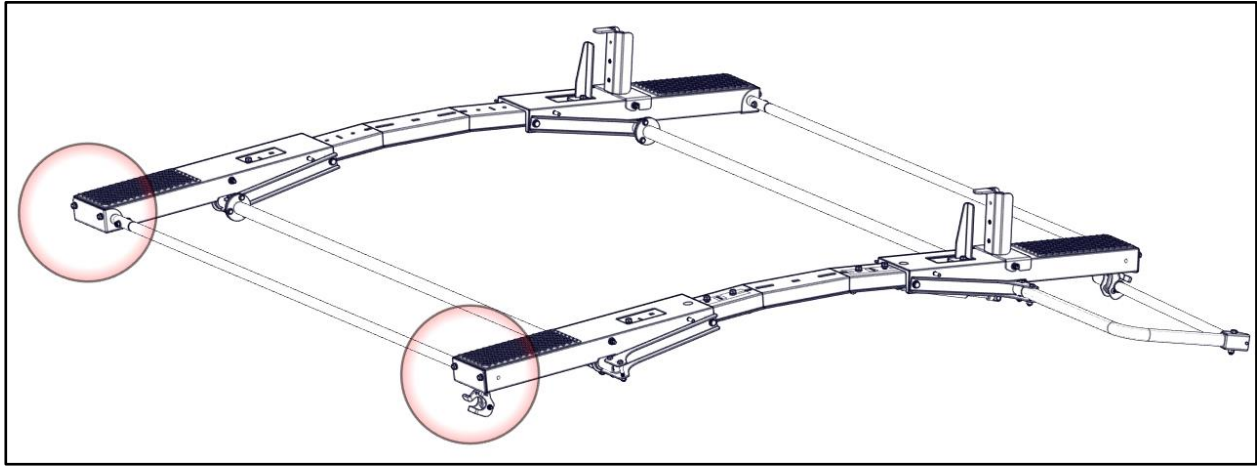
- Bolt to front pan assembly using 1/4" x 7/8" hex head bolts, 1/4" flat washers and 1/4" lock nuts.
- Repeat at both front and rear bows.
- TIGHTEN.





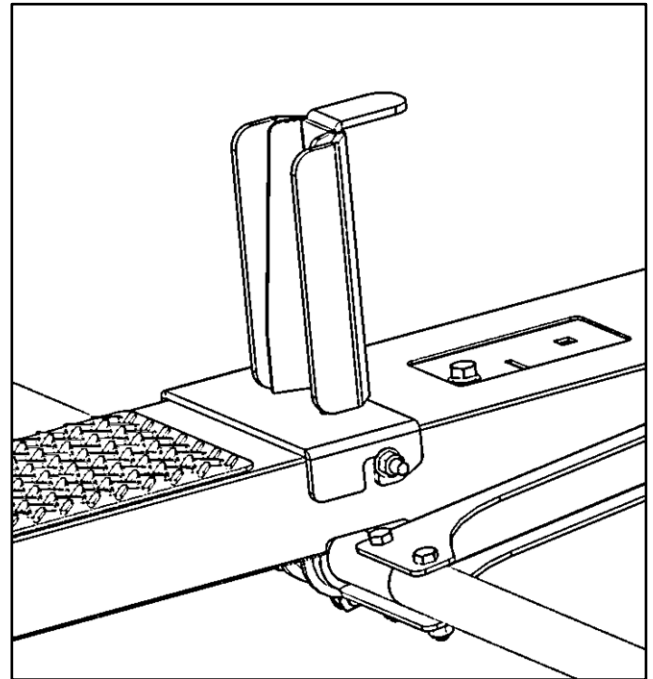
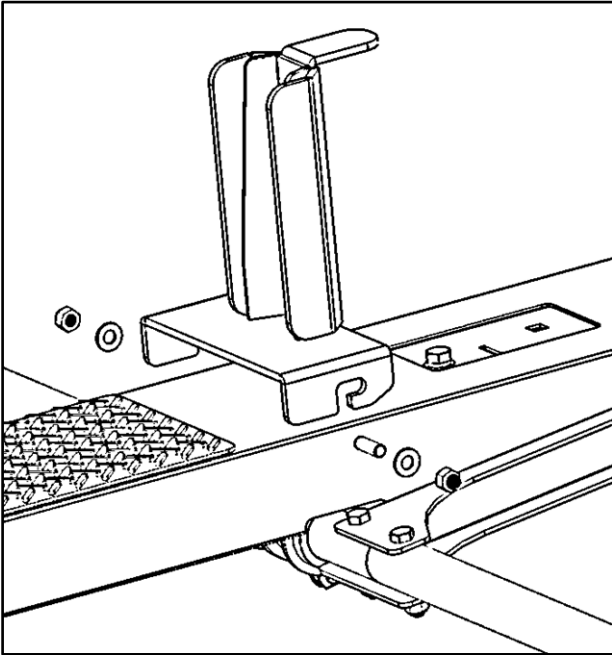
## **Step 11 – Install Ladder Pan**

- Attach pan support to both front and rear bow using 5/16" x 5/8" hex head bolt, 5/16" split lock washer and a 5/16" flat washer.
- TIGHTEN.



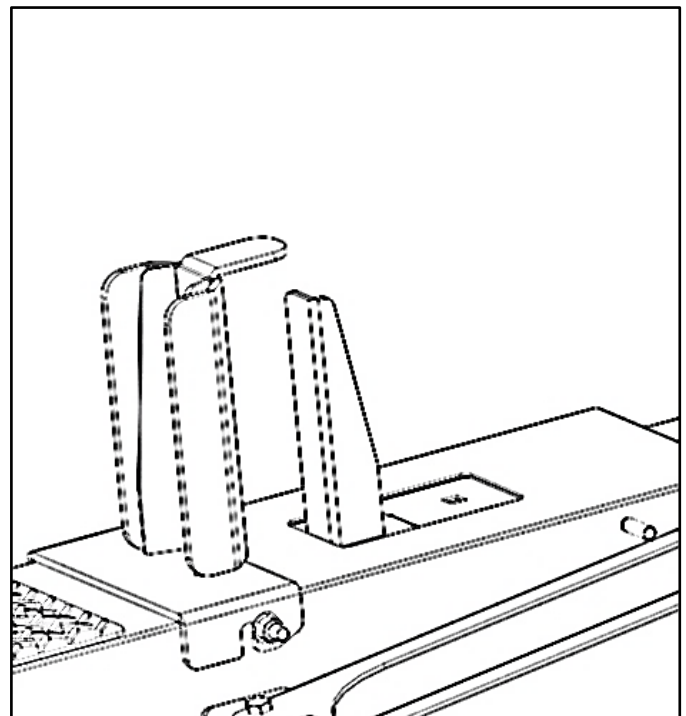
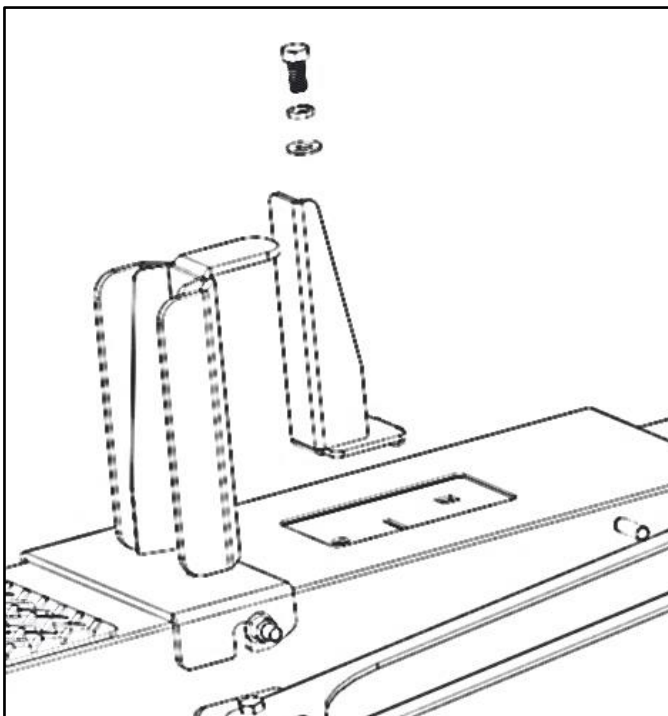
## **Step 12 – Install Ladder Hooks**

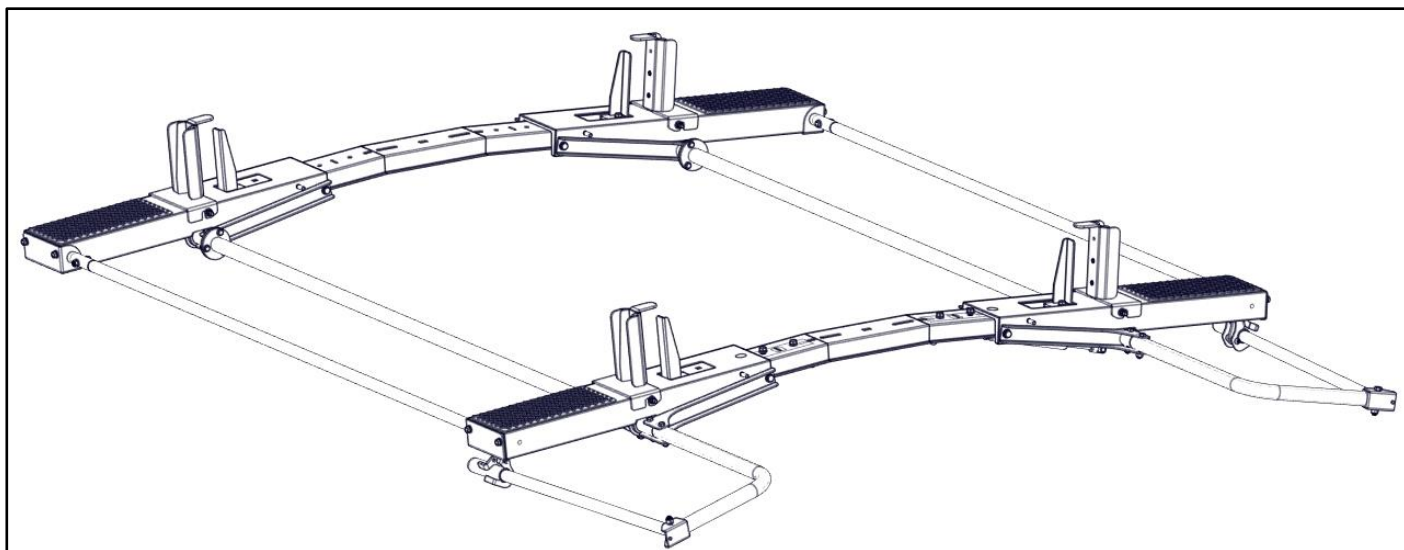
- Using the hardware and installed studs on the bows, loosen nuts and slide ladder hook into place.
- There are two sets of studs attached to the pans, use appropriate set depending on what ladder you are using.
- TIGHTEN.



## **Step 13 – Ladder Stop**

- Using the hardware on the bows, bolt the ladder stop in the orientation shown. Be sure to line up slot in bow with slot in stop.
- TIGHTEN.





**GO BACK AND TIGHTEN ALL HARDWARE.**  
**INSTALLATION AND ASSEMBLY ARE COMPLETE.**