
KARGO MASTER®

WE PUT EVERYTHING WITHIN REACH.

Instruction Guide

409TD



*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.

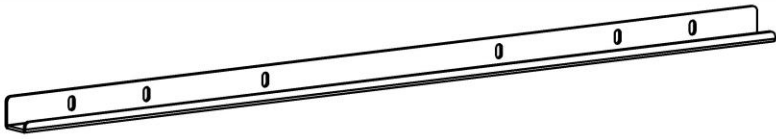
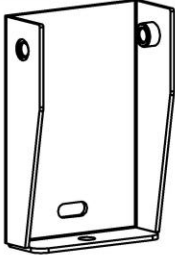
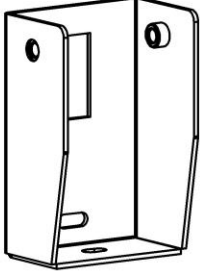


Tools Needed

13mm Wrench and Socket	1/2" Wrench and Socket
5mm Allen Hex	9/16" Wrench and Socket

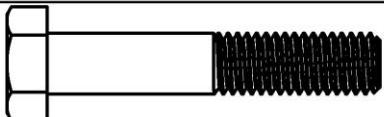
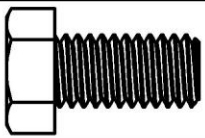

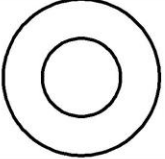
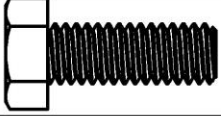

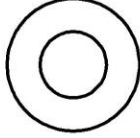


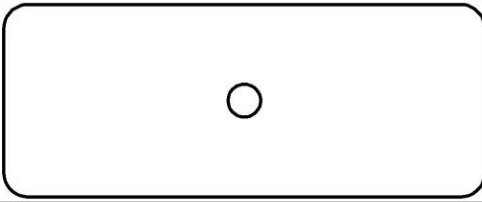

Before You Begin

- Read ALL instructions prior to installation.
 - Mount locations will vary based on van.
 - Be sure to put sealant around exposed threads in roof. Seal between the roof and the rubber pad. Apply some sealant on the threads of all bolts going into the roof.
-

Parts

ITEM NO.		PART NUMBER	DESCRIPTION	QTY.
A		4A901-10-001	Front Rail	2
B		13-03105	Tall Foot	2
C		4090T-10-R2	Large Foot	2
D		4A9ST-00-001	Rear Mount Bracket	2
E		T249-01	Black Nylon Block	4
		18-409TD-R2	Hardware	1

Hardware

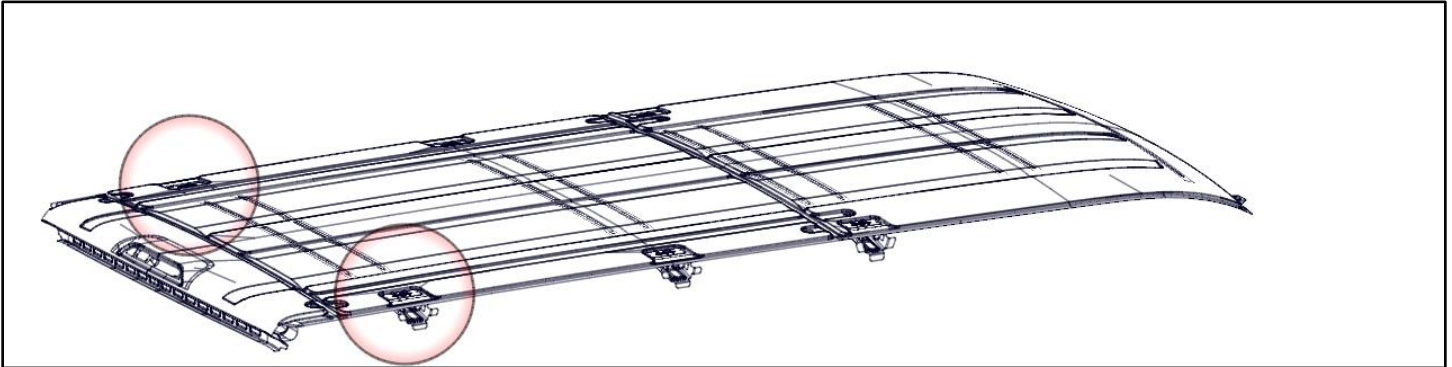
ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		95327A569	M8x1.25 x 45mm Hex Head	4
2		92865A622	3/8" x 3/4" Hex Head	8
3		91102A760	3/8" Split Lock Washer	8
4		90126A031	3/8" Flat Washer	8
5		92865A582	5/16" x 7/8" Hex Head	4
6		95615A160	5/16" Nyloc	4
7		90126A030	5/16" Flat Washer	12
8		91102A755	5/16" Split Lock Washer	4
9		91263A845	M8x1.25 x 30mm Flat Head	2
10		T249-02	Rubber Scale 1:2	8
		BH-821	Sealant	1

Ford Transit (EXCLUDING High Roof Extended)

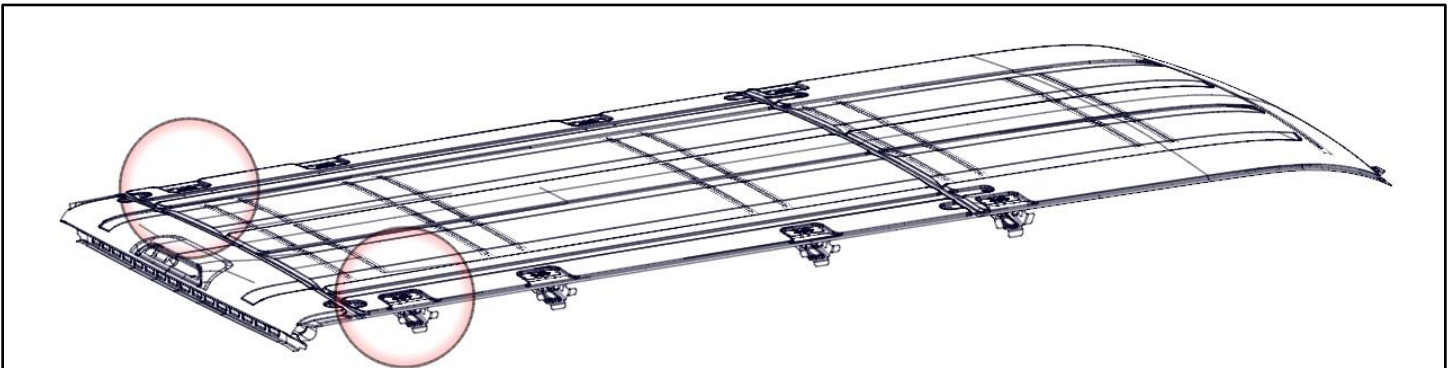
Step 1 – Rear Mounting

- Locate the threaded inserts at the rear of the van. Plugs will need to be removed.

130" Wheel Base

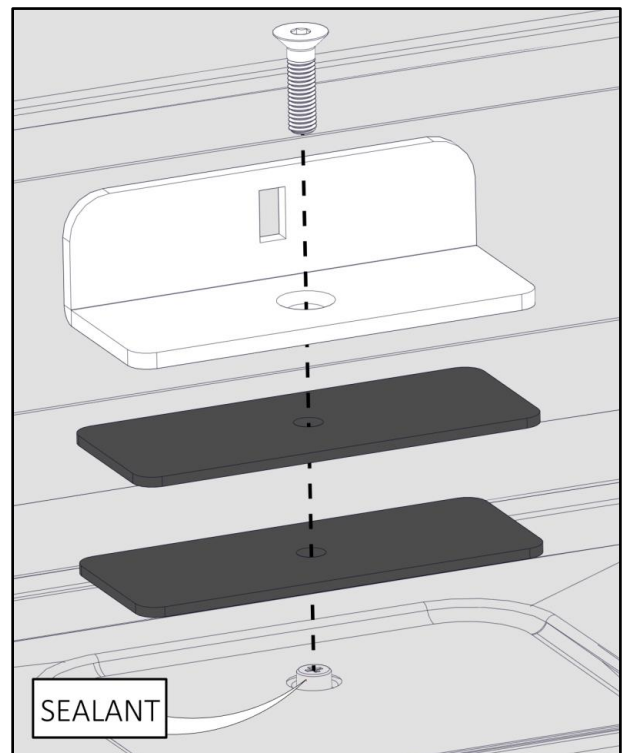


148" Wheel Base



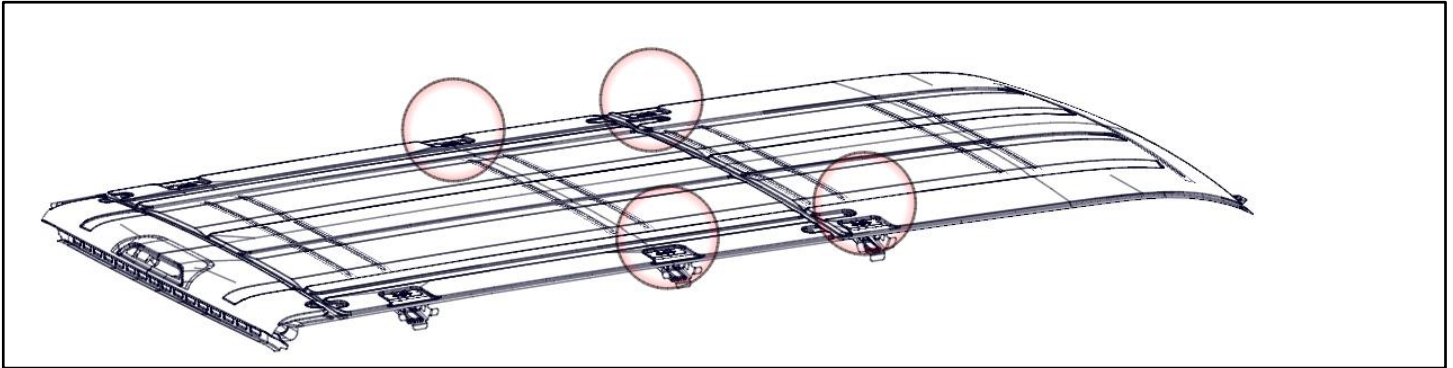
**** Place sealant around the exposed holes in the roof of the van under the rubber pads to ensure no water can leak into the cabin of the van. ****

- Attach the rear mount bracket using M8 x 30mm flat head bolts. Place two rubber pads between the bracket and the roof of the van. The bracket should be parallel with the length of the van and the flange should be to the inside.
- Tighten. (Passenger side shown)



Step 2A – Front Mount on 130" Wheel Base (Low/Mid Roof)

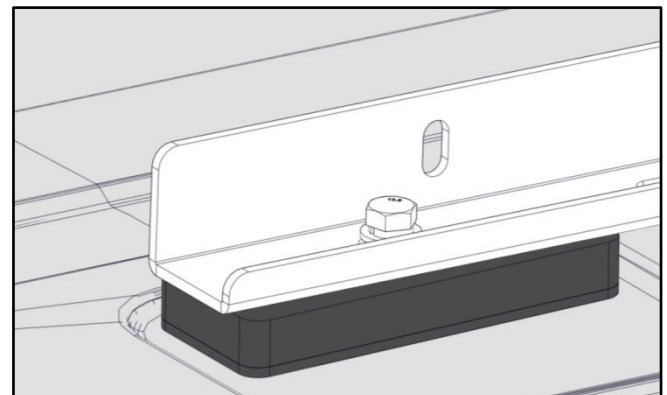
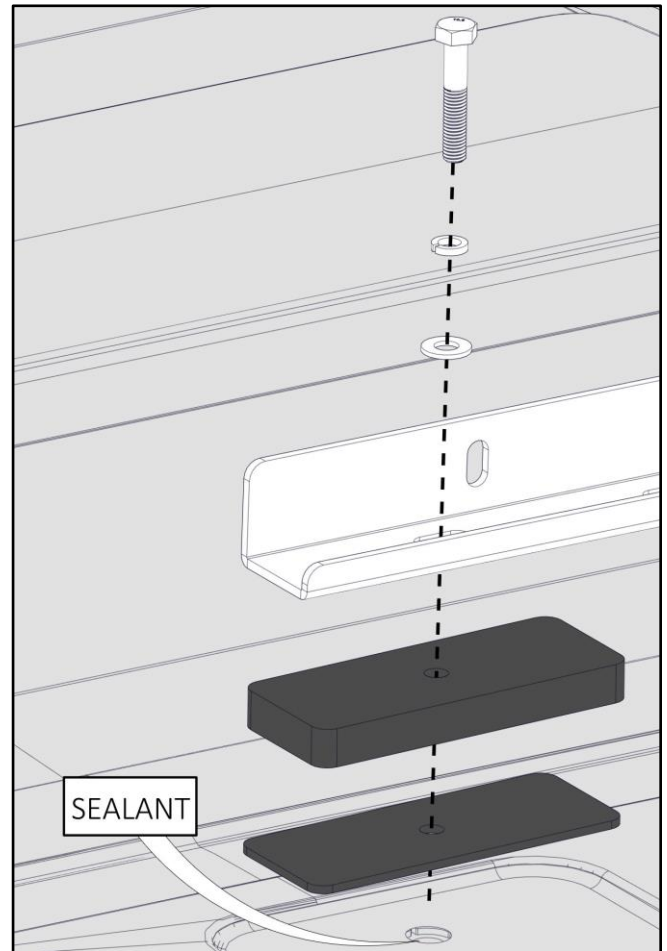
- Locate the other threaded inserts at the front of the van. Remove plugs.



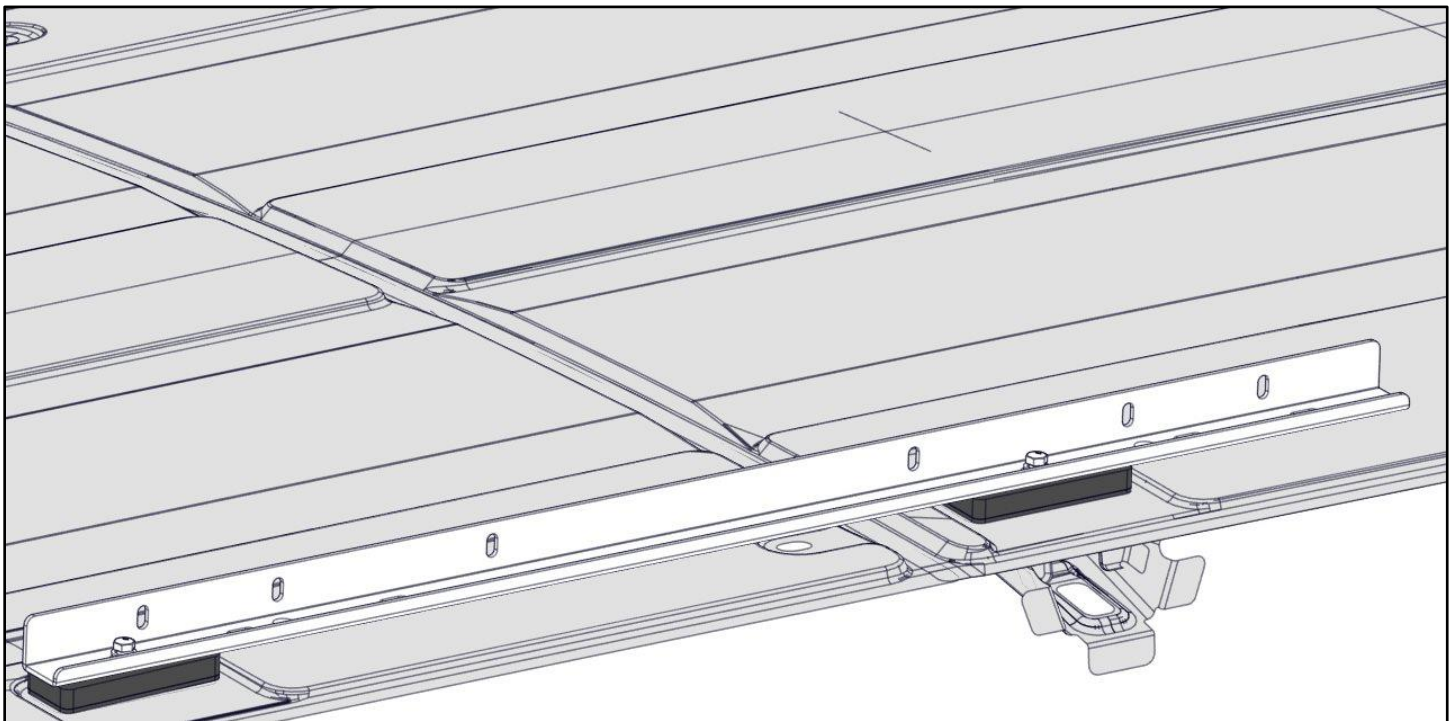
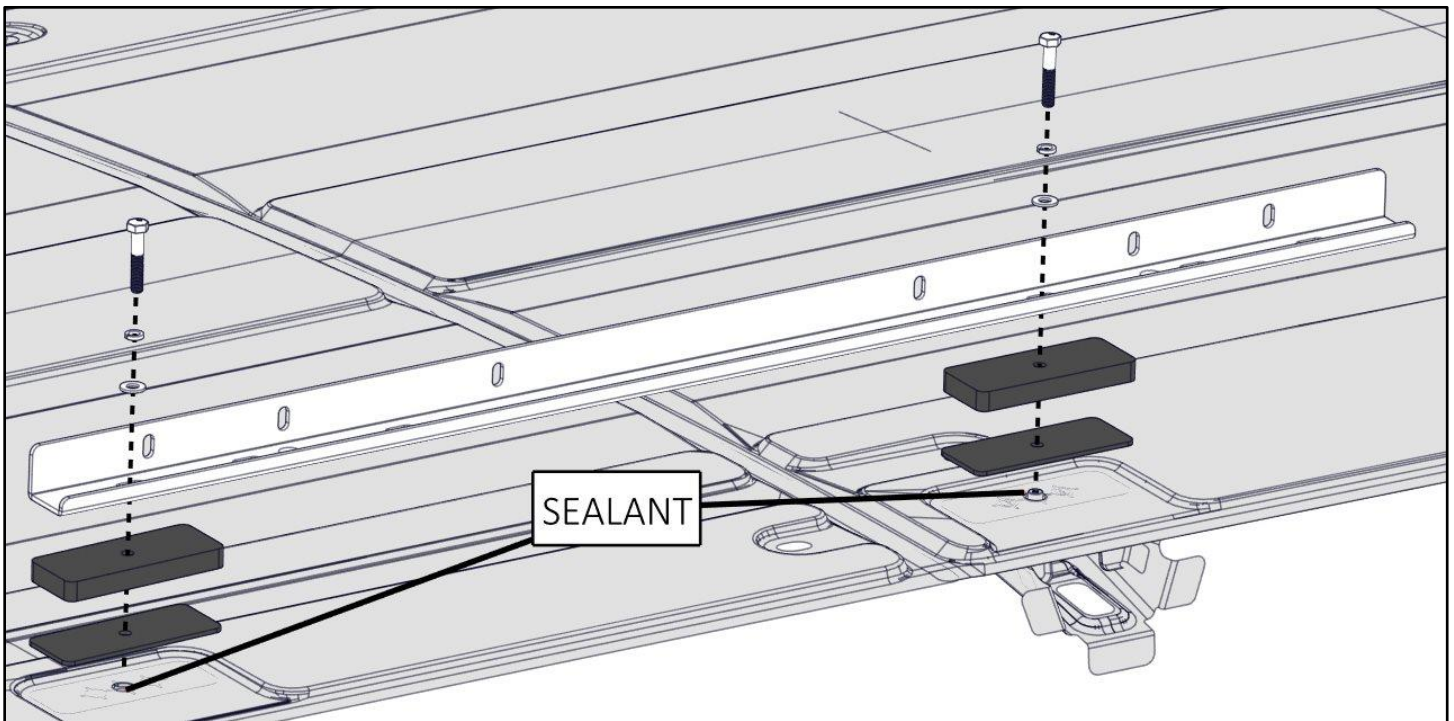
**** Place sealant around the exposed holes in the roof of the van under the rubber pads to ensure no water can leak into the cabin of the van. ****

- Place the long mount rail with the tall flange towards the center of the van on top of the rubber pad and black nylon block.
- Bolt through farthest rear slot in the rail and the corresponding front slot using M8 x 45mm bolts with lock washers and flat washers.
- The rail should be offset to the front of the van.

(Passenger side, rear most mount on the rail shown)

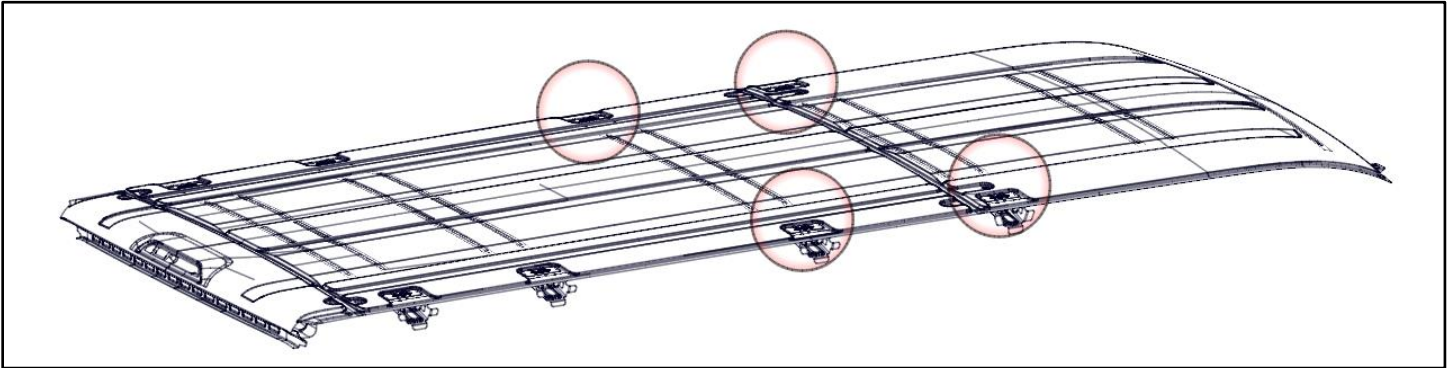


- Passenger side shown, repeat on driver side.
- Snug tighten.



Step 2B – Front Mount on 148” Wheel Base (Low/Mid/High Roof excluding Extended)

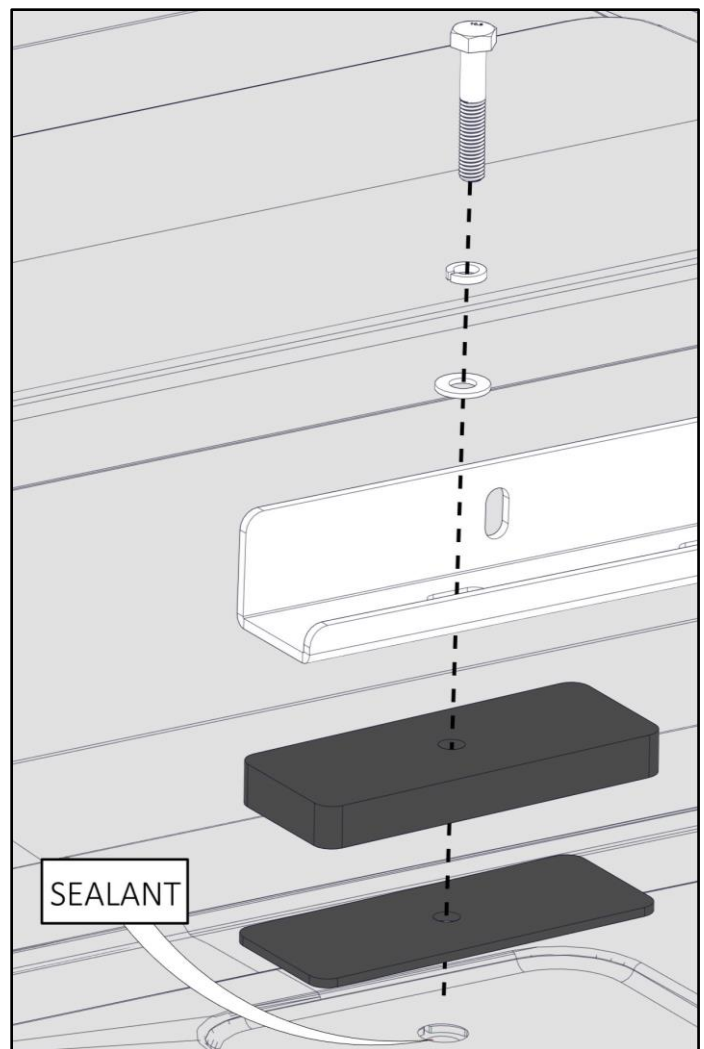
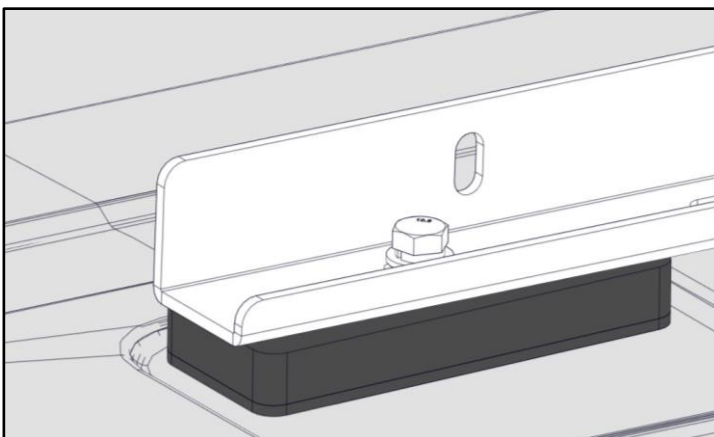
- Locate the other threaded inserts at the front of the van. Remove plugs.



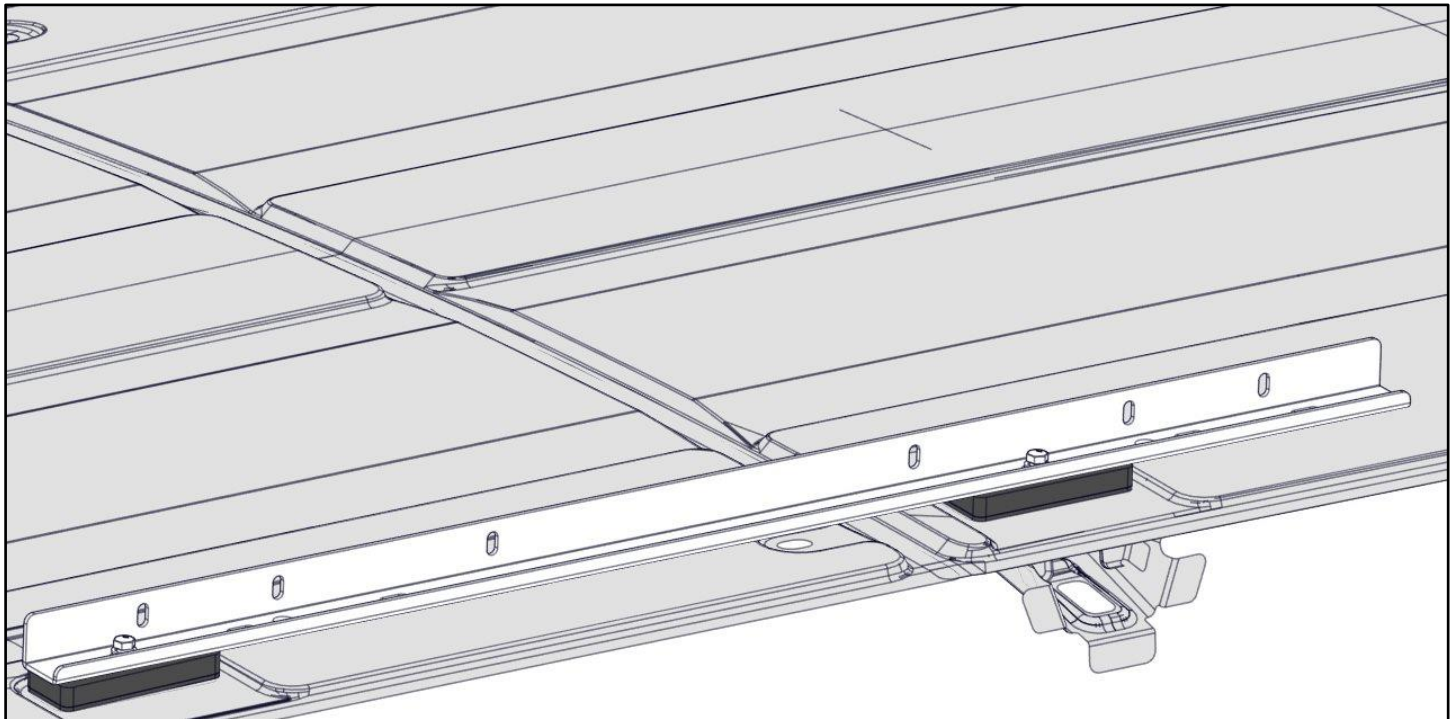
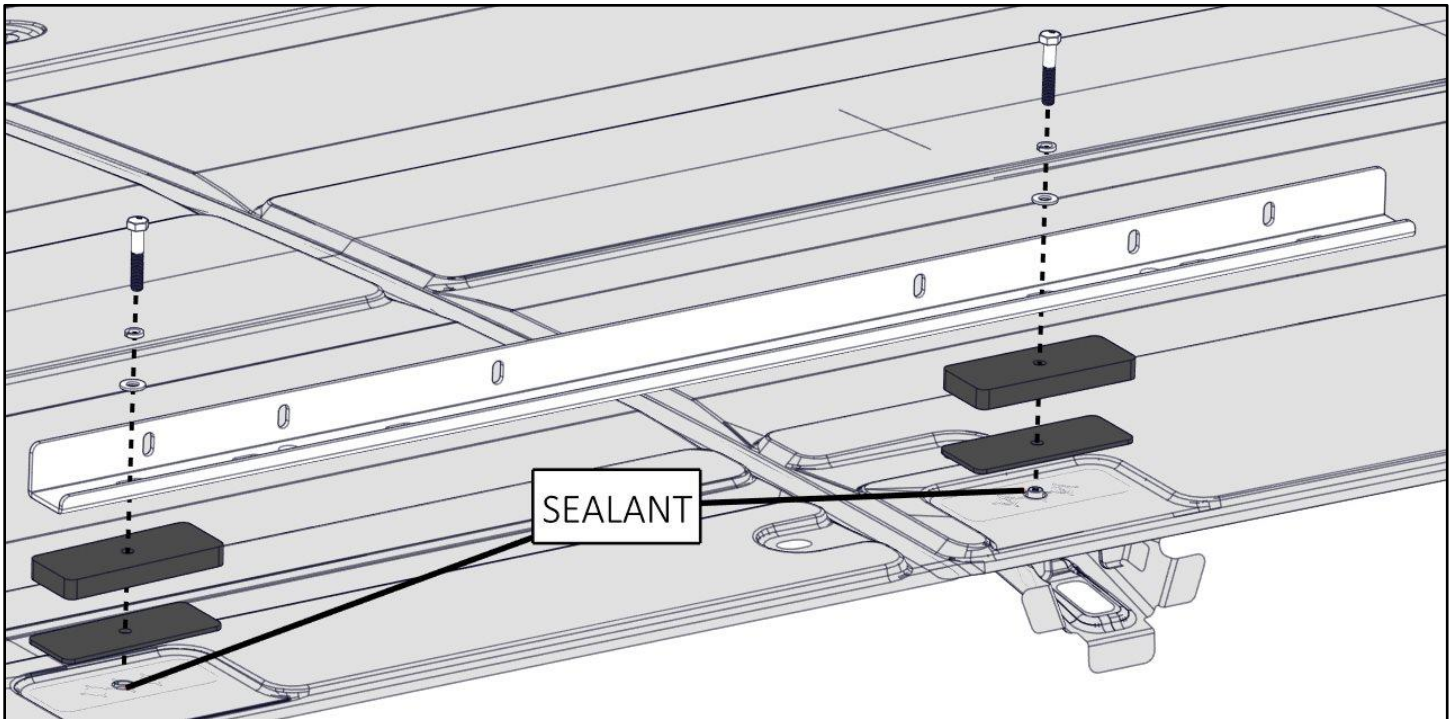
**** Place sealant around the exposed holes in the roof of the van under the rubber pads to ensure no water can leak into the cabin of the van. ****

- Place the mount rail with the tall flange towards center of the van on top of the rubber pad and black nylon block.
- Bolt through the farthest rear slot in the mount rail and corresponding front slot in the rail using M8 x 45mm bolts with lock washers and flat washers.
- The rail should be offset to the front of the van.

(Passenger side, rear most mount on the rail shown)

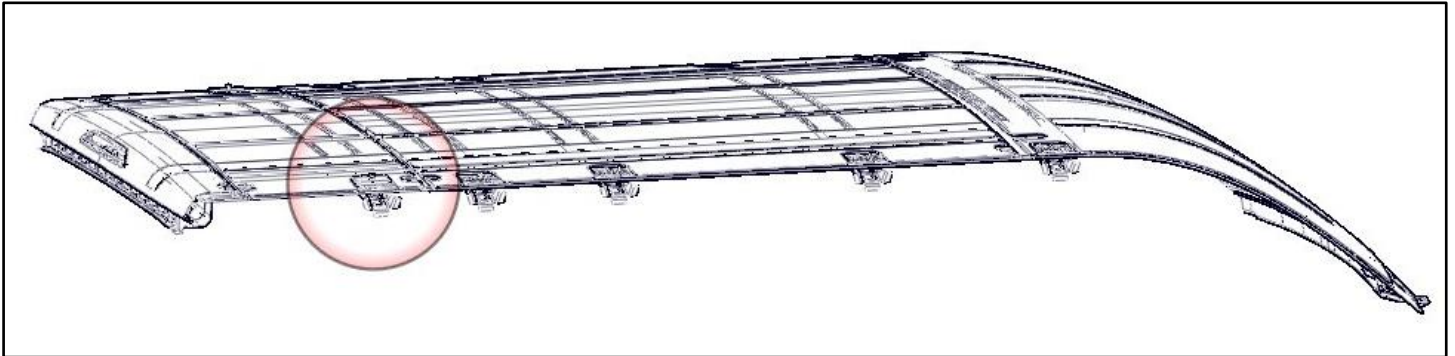


- Passenger side shown, repeat on driver side.
- Snug Tighten.



Transit 148" Wheelbase, High Roof, Extended

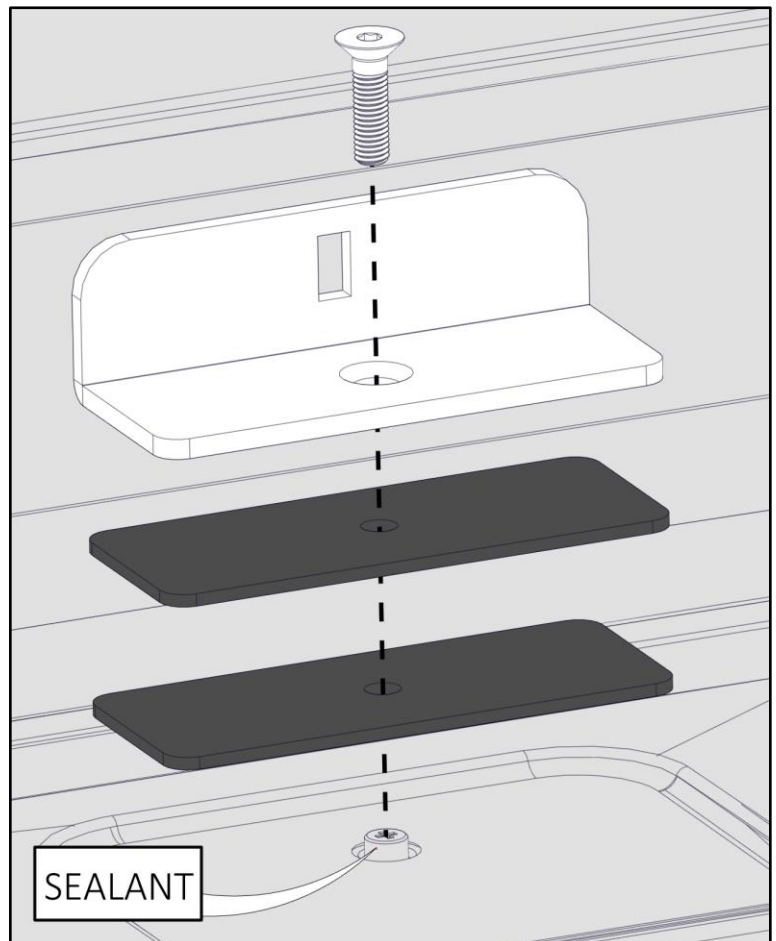
Step 3A - Extended - Rear Foot Mounting



**** Place sealant around the exposed holes in the roof of the van under the rubber pads to ensure no water can leak into the cabin of the van. ****

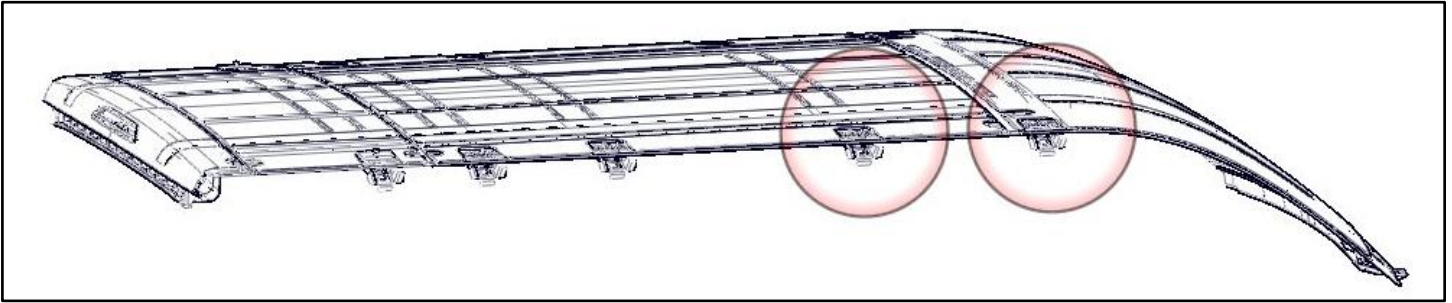
- Mount rear mount bracket using M8 x 30mm flat head bolts. Place two rubber pads between the bracket and the roof of the van. The bracket should be parallel with the length of the van and the flange should be towards the center as shown.

(Passenger side shown)



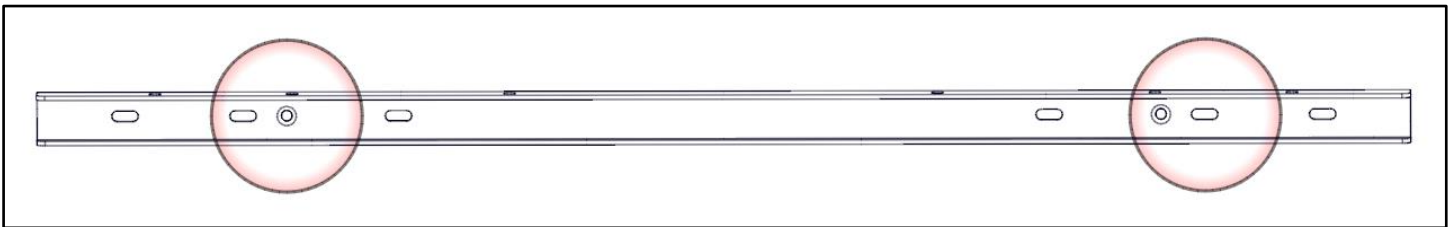
Step 3B - Extended - Front Mount

- Locate the other two threaded inserts at the front of the van. Remove plugs.

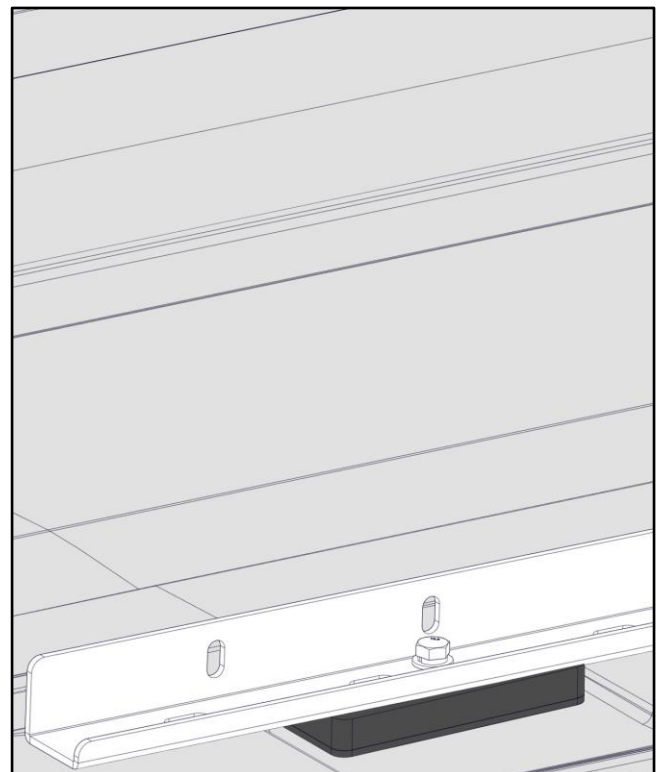
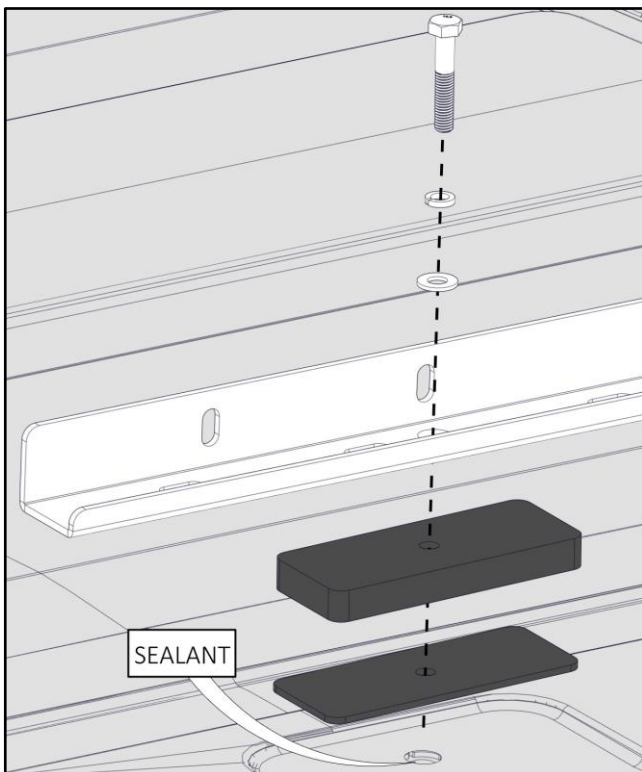


**** Place sealant around the exposed holes in the roof of the van under the rubber pads to ensure no water can leak into the cabin of the van. ****

- Place the long mount rail with the tall flange towards the center of the van.
- Bolt through the farthest rear countersunk hole and the 2nd slot from the front using M8 x 45mm bolts with lock washers and flat washers.

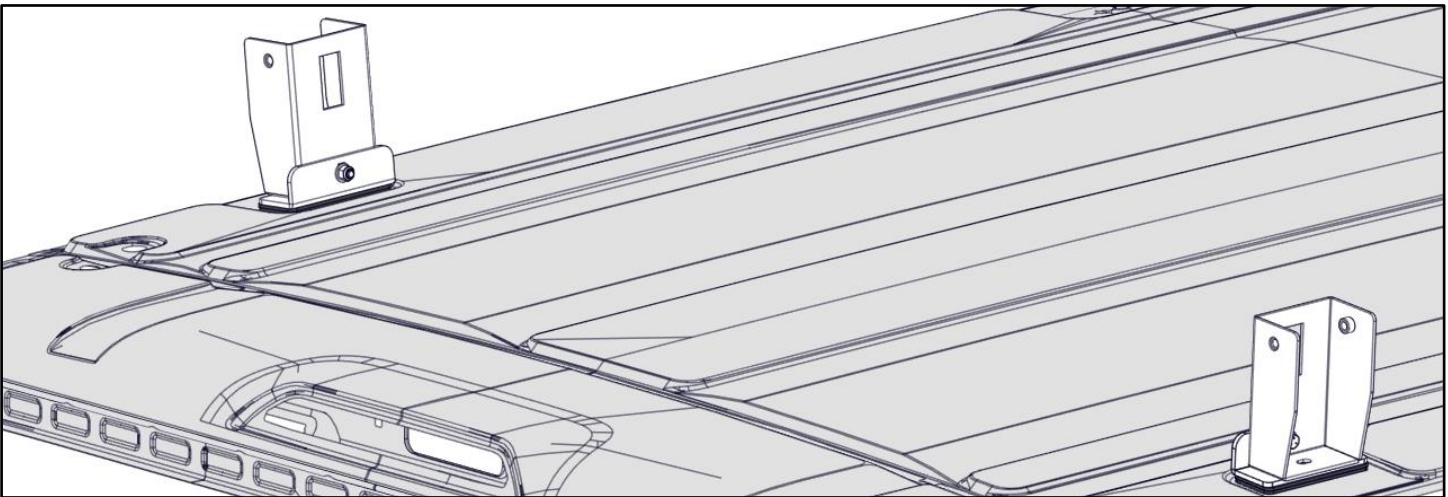
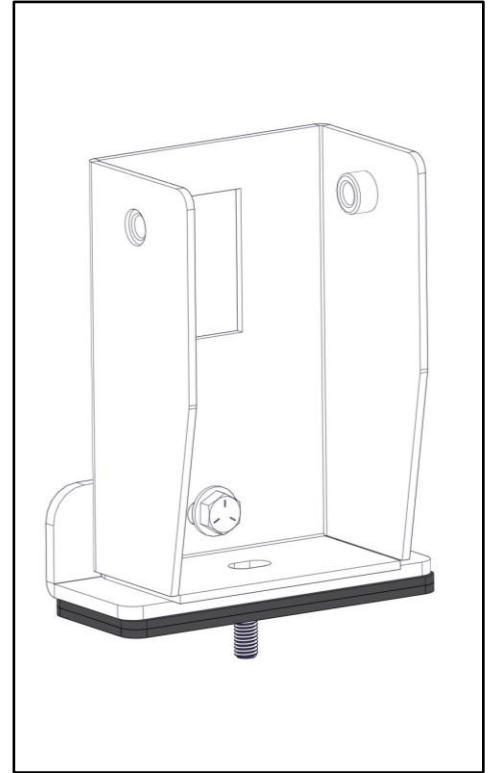
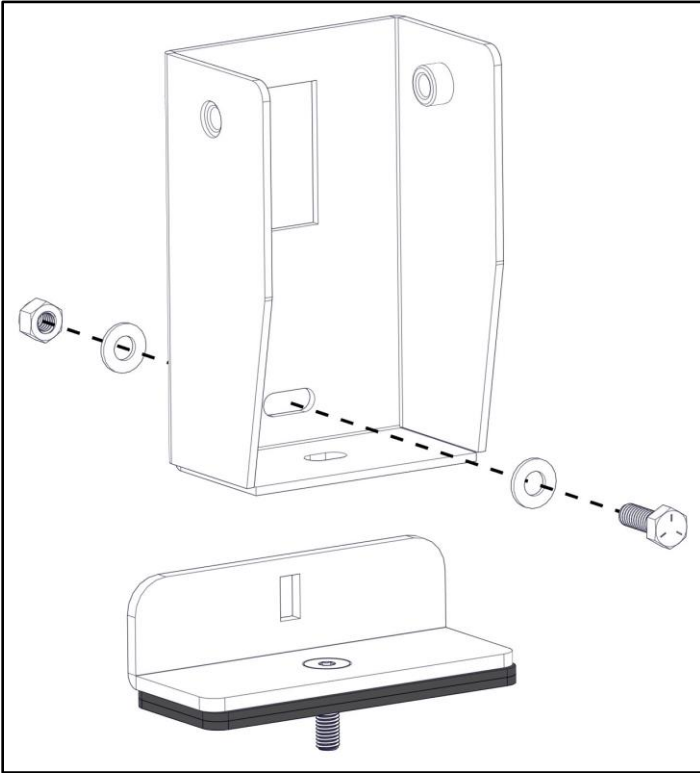


- The picture shown below is the rear most mount on the rail. (through the countersunk hole)
- Passenger side shown, repeat on driver side.
- Snug Tighten.



Step 4 – Install Rear Feet

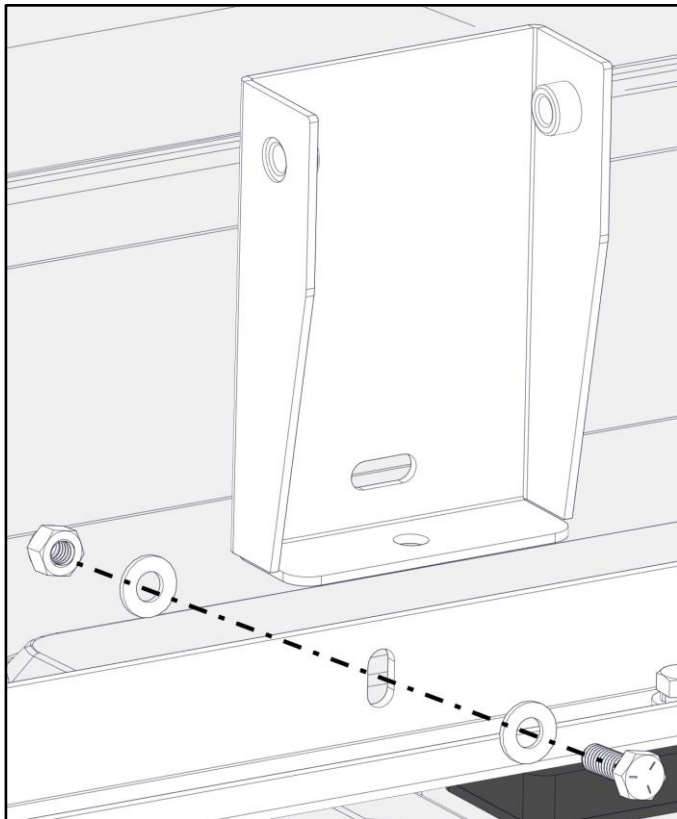
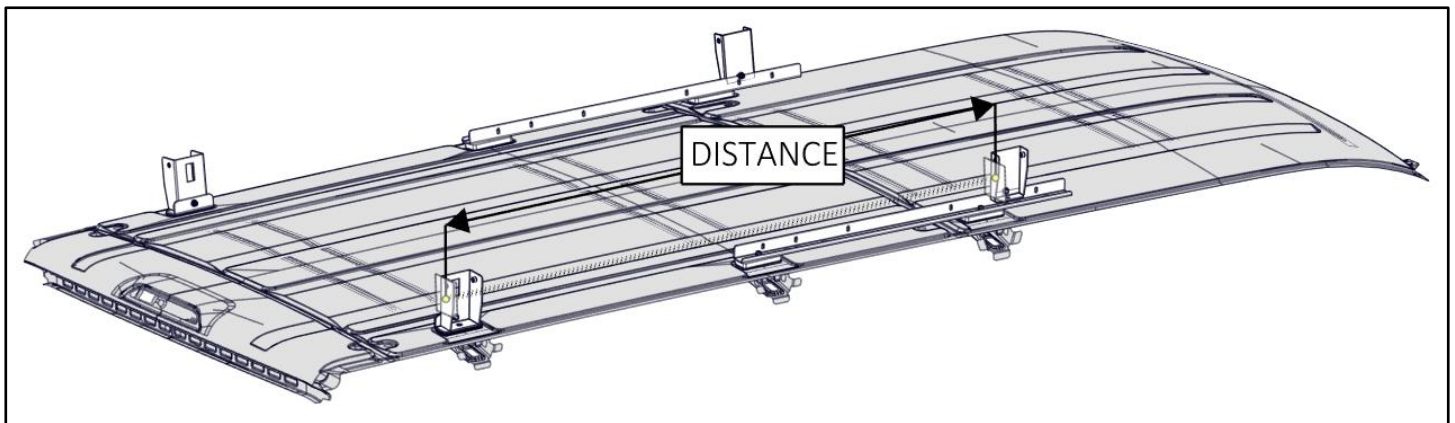
- Bolt large foot (has a cut out) to the rear mount previously installed using 5/16" x 7/8" hex head bolt, two 5/16" flat washers and a 5/16" nyloc nut. (Passenger side shown without roof and rack for clarity)



Step 5 – Install Front Feet

- Mount the tall foot to the previously installed rail using a 5/16" x 7/8" hex head bolt, two 5/16" flat washers and a 5/16" nyloc nut.
- Be sure the distance between the two feet closely matches the distance between the bows on the ladder rack being installed. The slot used on the front rail will vary from the picture below.

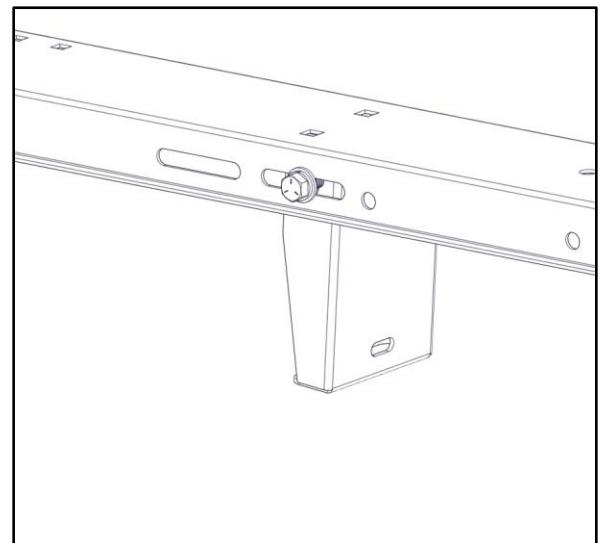
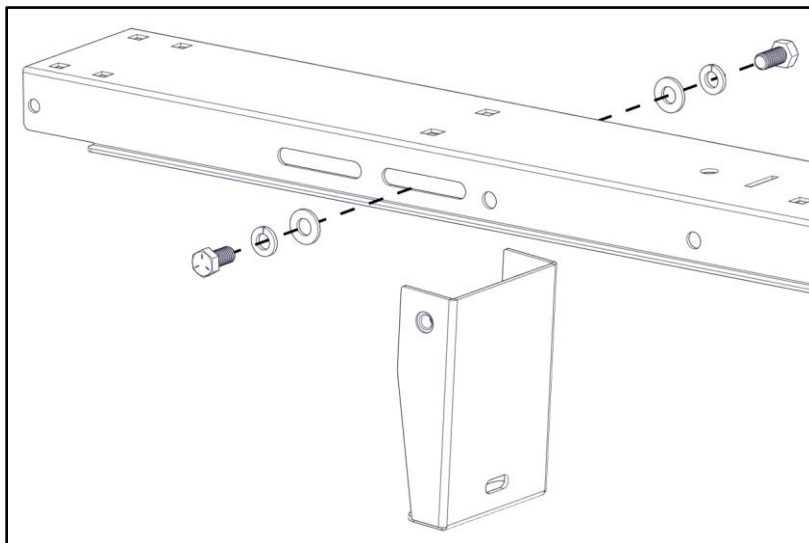
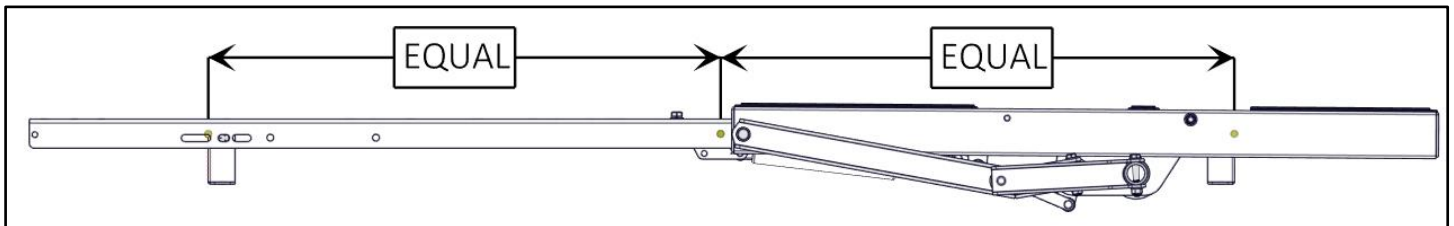
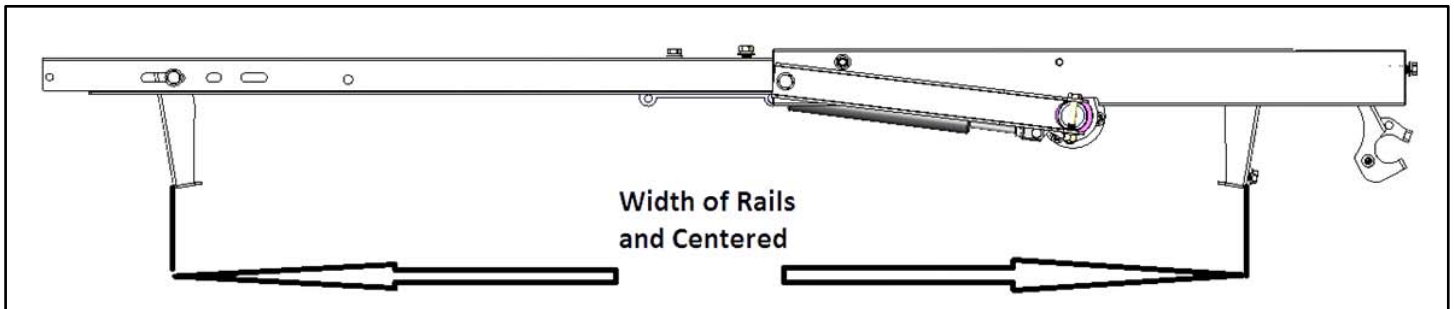
Note: One may choose to install the feet on the rack prior to installing onto the vehicle. It is the installers preference.



Step 6 – Feet to Rack

- Place assembled ladder rack on top of the previously installed feet.
- Measure width between the mounts on the van.
- Center the assembled rack on top of the installed feet. Align bow with the same slot on opposite ends.
- Bolt the feet to the bows as shown using 3/8" x 3/4" hex head bolts, 3/8" lock washers and a 3/8" flat washers.

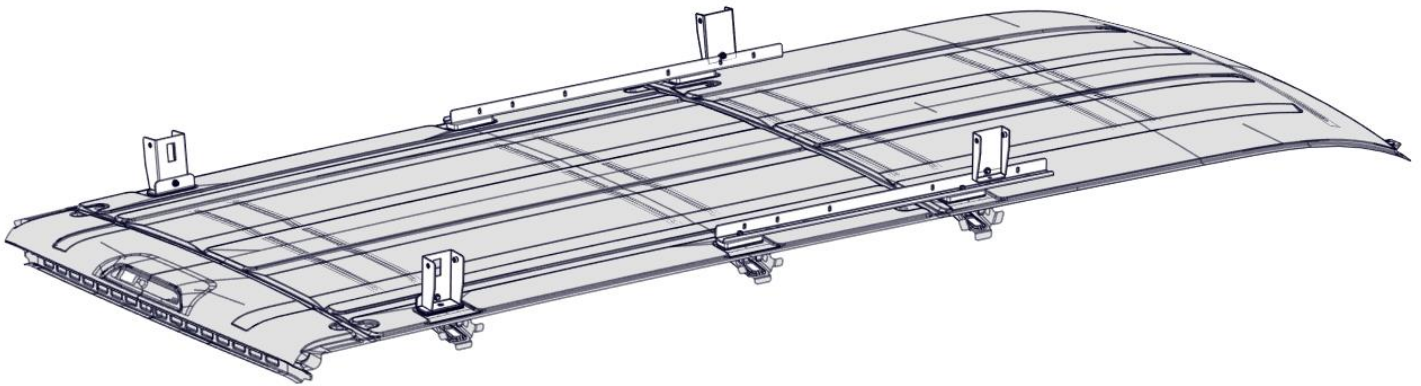
Note: One may choose to install the feet on the rack prior to installing onto the vehicle. It is the installers preference.



Go back and square the rack.

Ensure all hardware is tight. This includes into the roof, within the rack assembly and the mounting of the rack to roof mounts.

Your installation is complete.

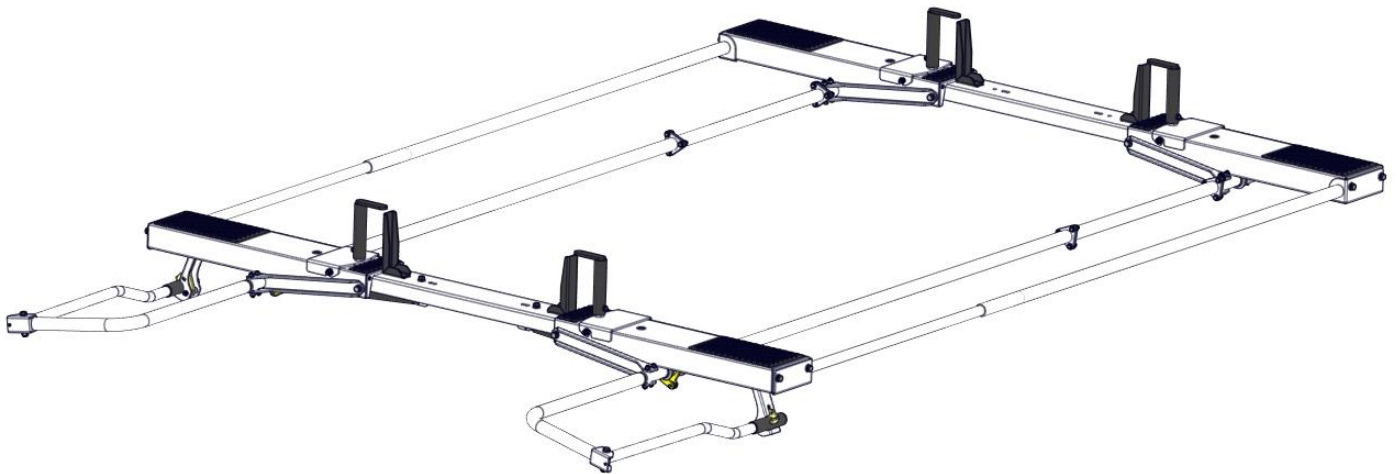


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Installation Guide

4A95L



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Warning



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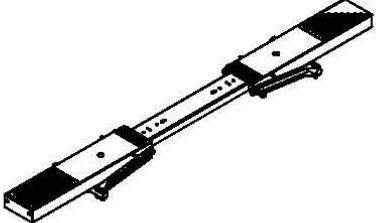
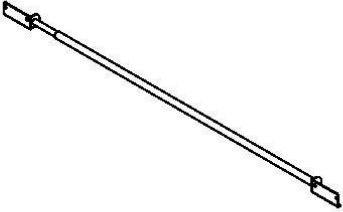
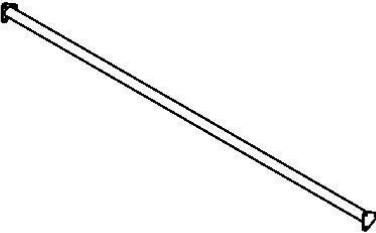

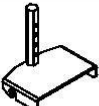
Tools Needed

7/16" Wrench and Socket	3/8" Wrench and Socket
1/2" Wrench and Socket	9/16" Wrench and Socket
Tape Measure	

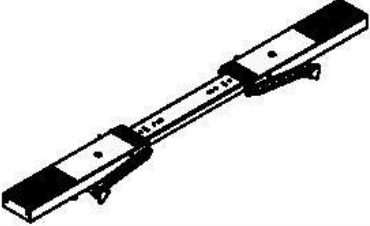
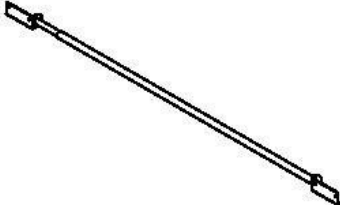
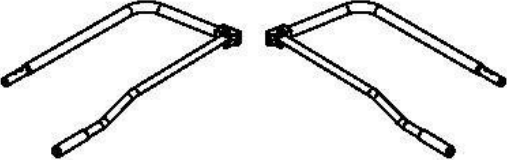

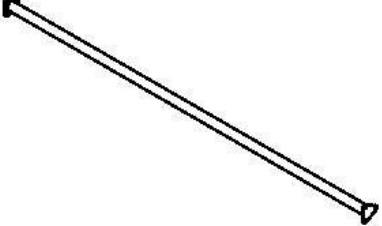

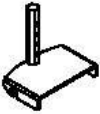

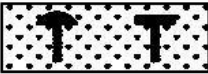
Before You Begin

- Read all instructions.
 - Have mount kit installed on vehicle.
 - NEVER EXCEED MANUFACTURERS ROOF WEIGHT RATING.
 - Place BH-821 around all tube connections to ensure water does not get inside of rack.
-

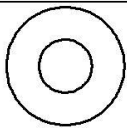
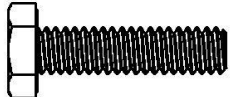

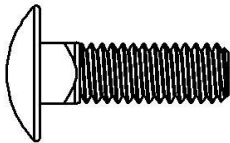

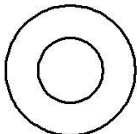
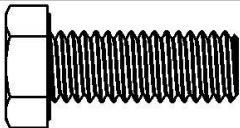
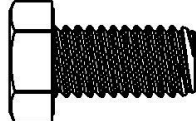
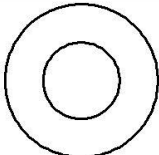
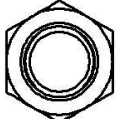
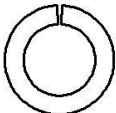

Parts

PART	PART NO.	QTY
	4A95L-2	1
	4A93L-7	1
	4A93L-50	1
	4A900-35	4
	4A900-36	2

Parts Continued

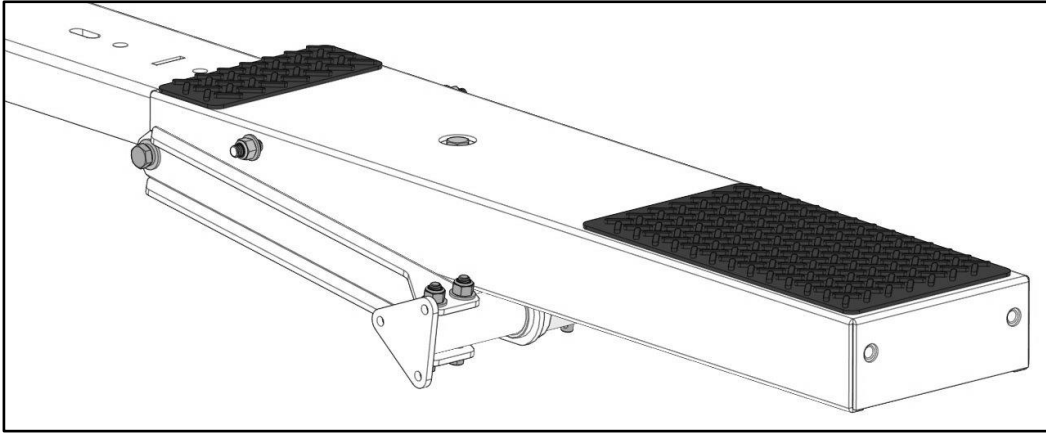
PART	PART NO.	QTY
	4A95L-1	1
	4A93L-7	1
	4A93L-70 4A93L-71	2
	4A93L-51	2
	4A93L-50	1
	4A93L-44-R1	2
	4A900-36	2
	4A900-30-004 -R3	4
	HARDWARE	1

HARDWARE

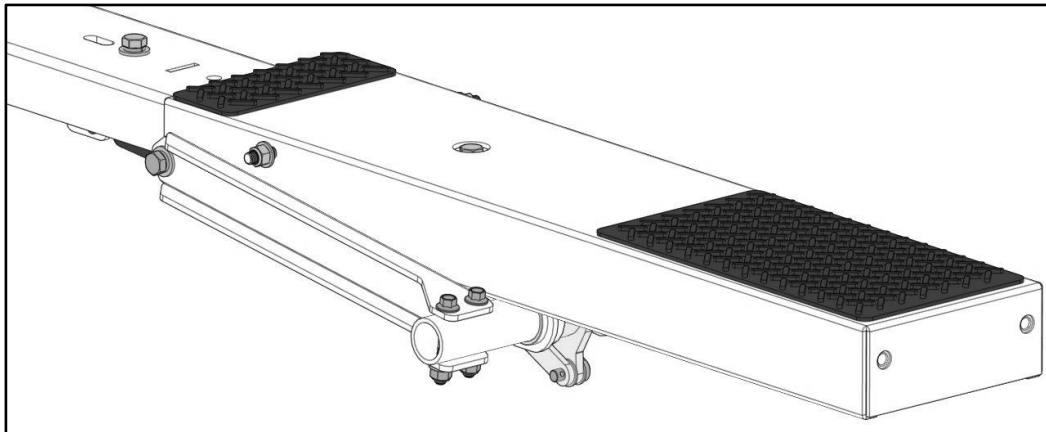
ITEM NO.	TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		90126A029	WASHER, FLAT, 1/4"	40
2		92865A542	BOLT, HEX, 1/4-20 x 1"	22
3		95615A120	NUT, NYLOK, 1/4-20	18
4		90185A583	BOLT, CARRIAGE, 5/16-18 X 1	4
5		95615A160	NUT, NYLOC, 5/16-18	4
6		90126A030	WASHER, FLAT, 5/16, SAE	4
7		92865A624	BOLT, HEX, 3/8-16 X 1"	2
8		92865A622	BOLT, HEX, 3/8-16 X .75"	8
9		90126A031	WASHER, FLAT, 3/8, SAE	12
10		97135A230	NUT, HEX, NYLOK, 3/8-16	2
11		91102A760	WASHER, LOCK, 3/8	8
12		BH-821	SEALANT	1

Step 1 – Determine Bows

- Determine front and rear bow. The triangular piece should be facing each other on each bow.



Front Bow

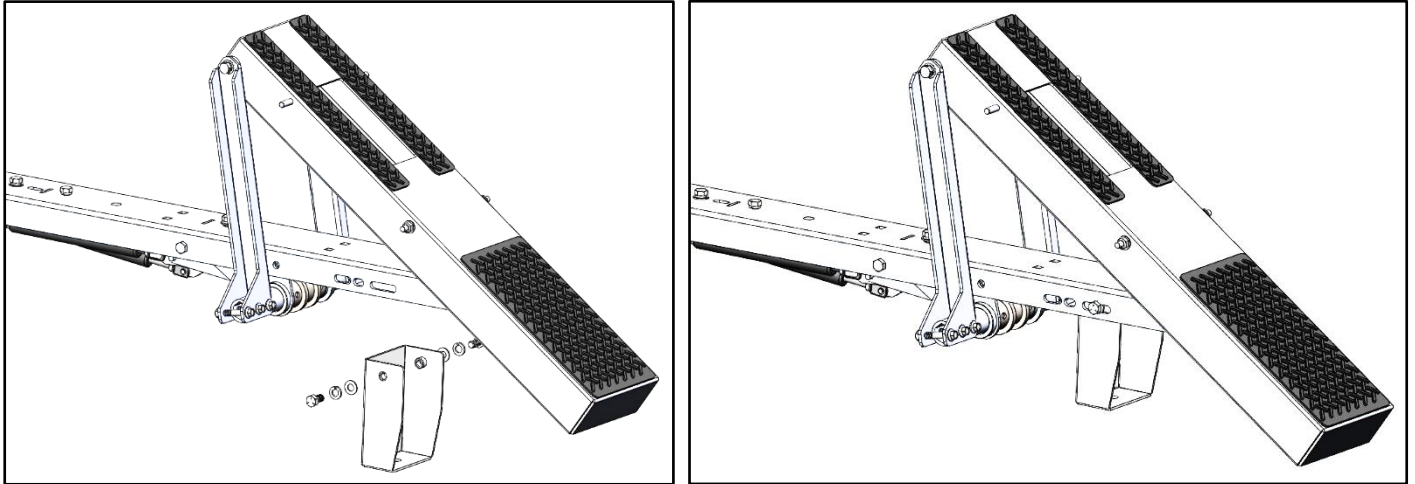


Rear Bow

Step 2 – Pan Mount

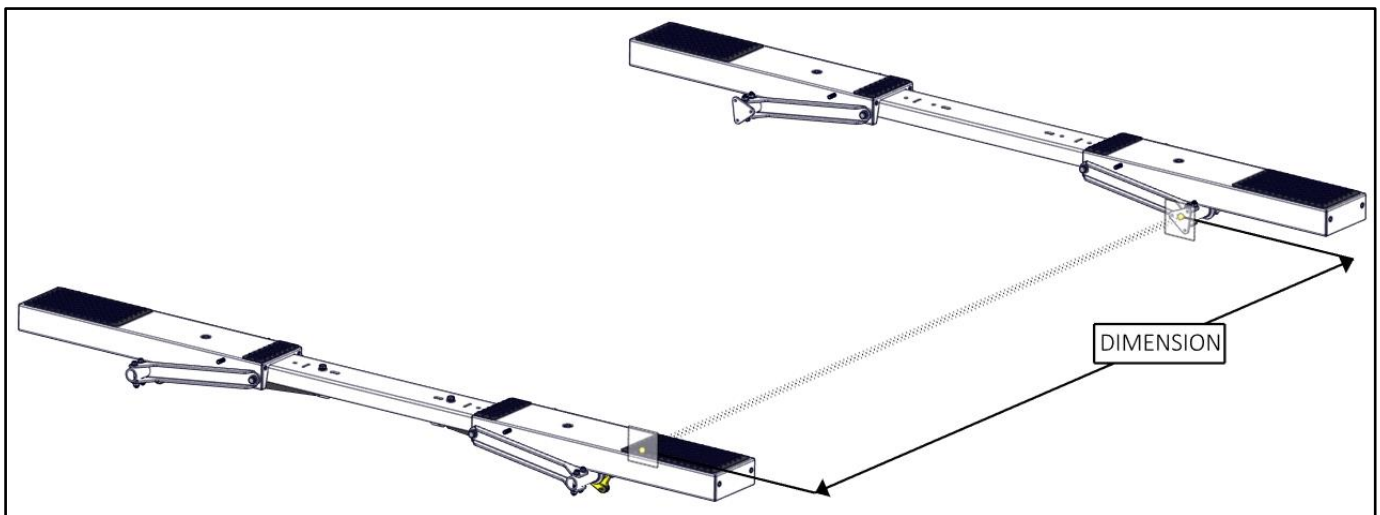
- Be sure mount kit is installed on vehicle.
- Set front and rear bow asm on mounting feet as shown.
- Place a foam block from the packaging to hold the bow in the up position in order to access the mounting slots.
- Leave loose until the the rack is assembled.
- Repeat on both ends of bow.

Feet and bow design varies from rack to rack. The installation is the same.



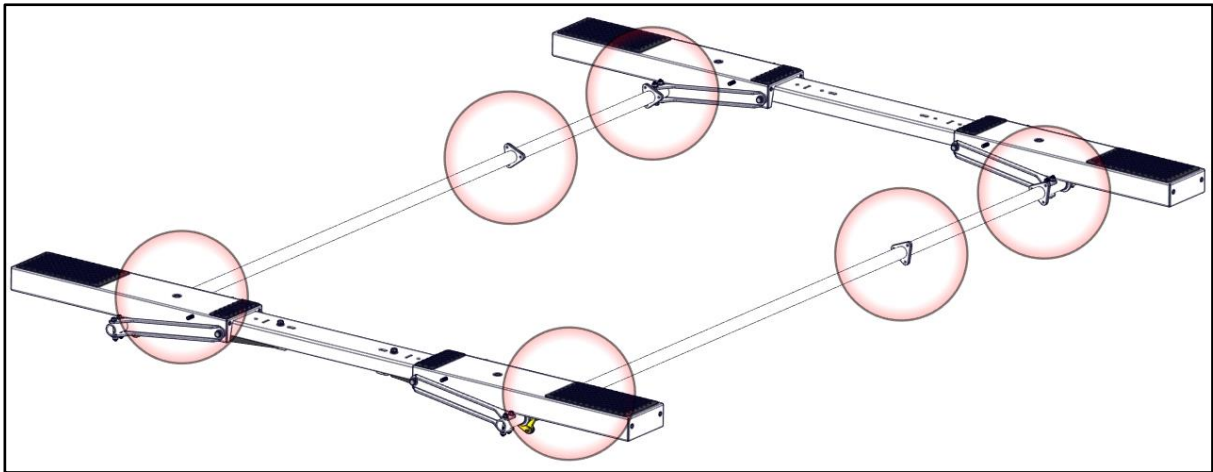
Step 3 – Determine if Extension is Needed

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

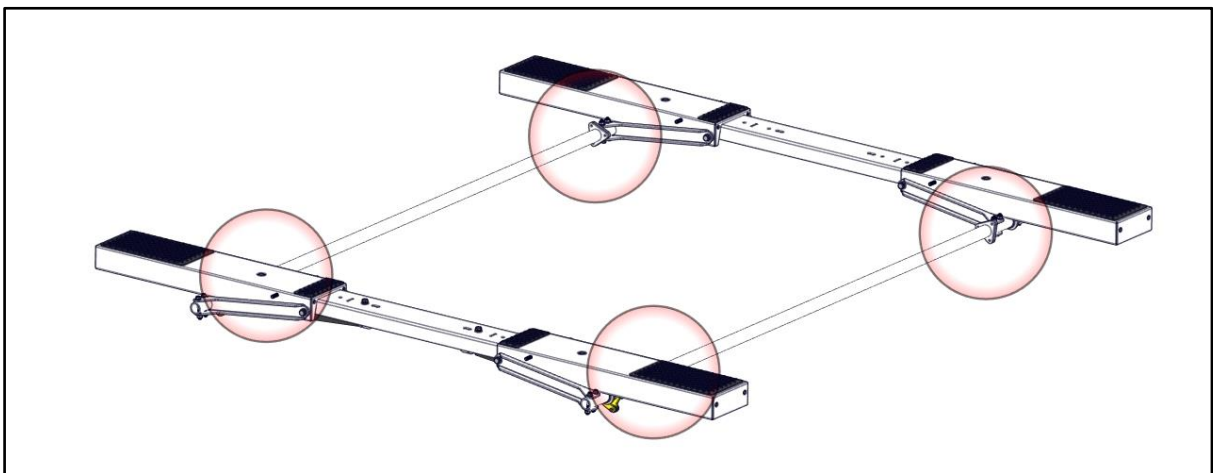


Step 4 – Install Torque Tube

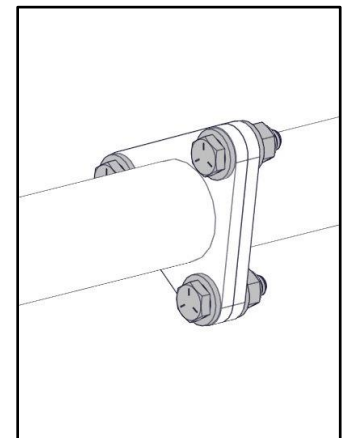
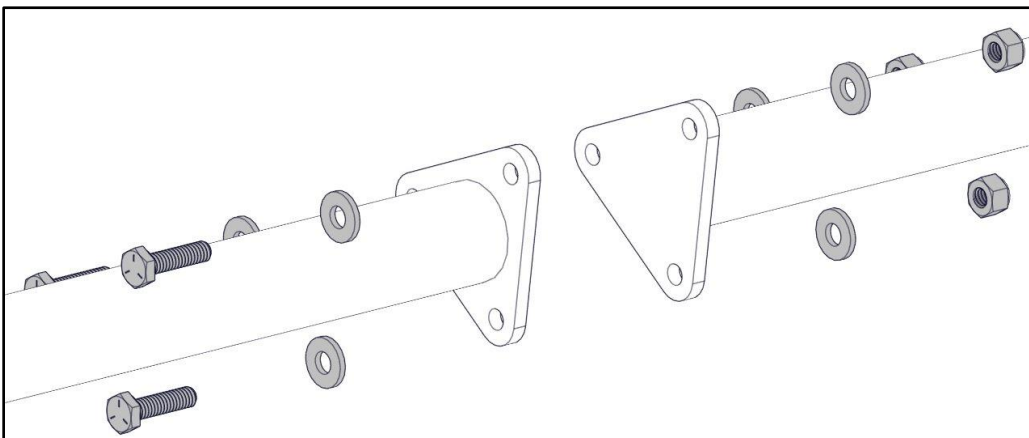
- If EXT is needed, Assemble EXT to long torque tube.



- If EXT is not needed, Only use long torque tube.



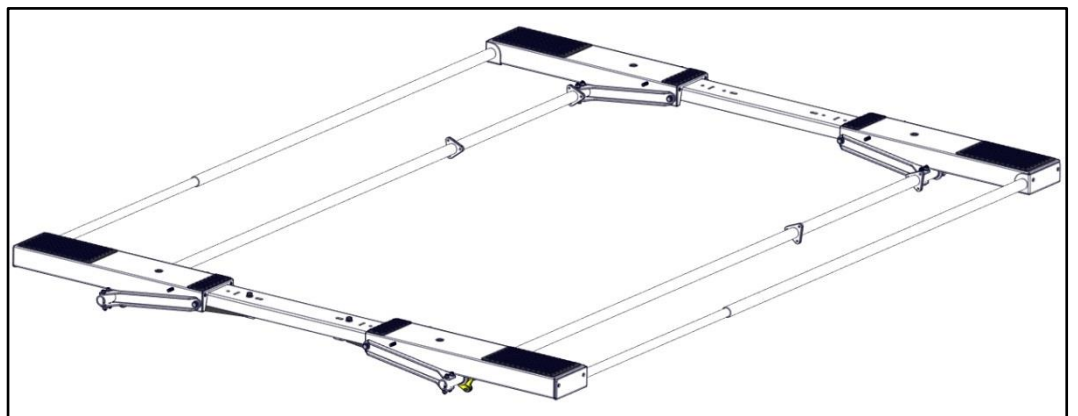
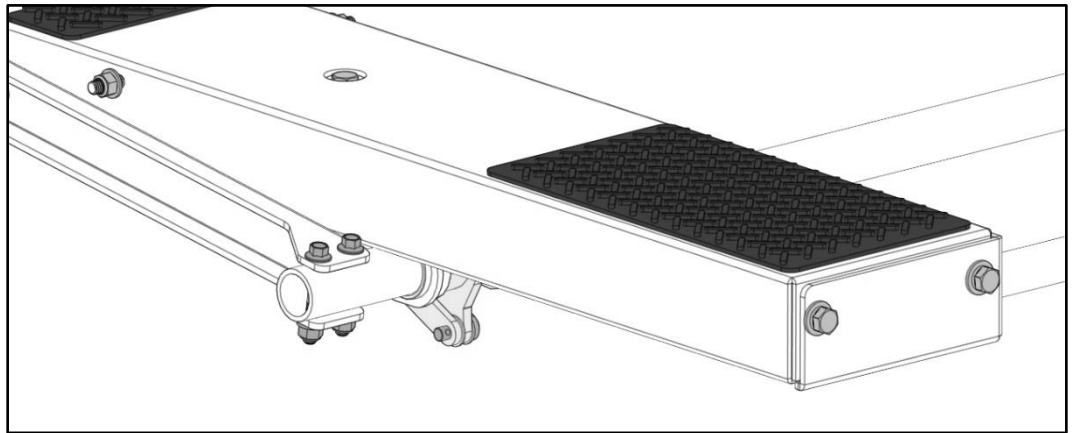
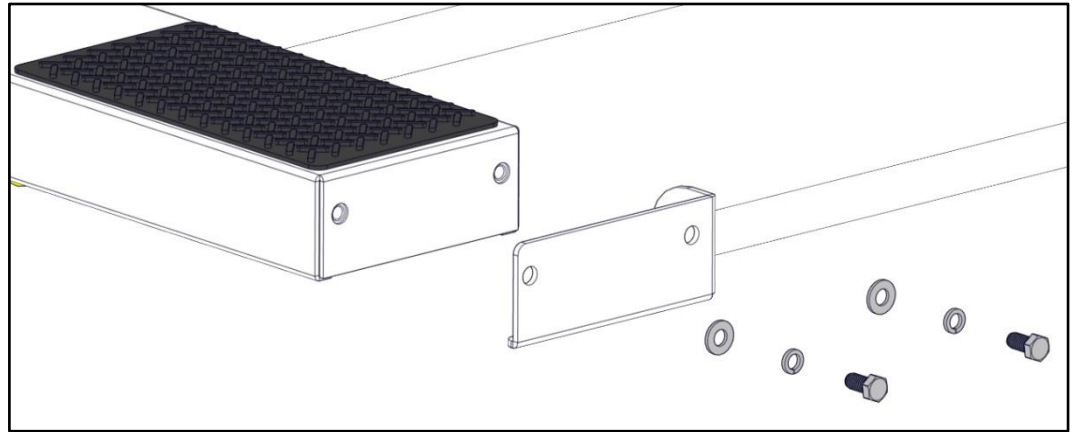
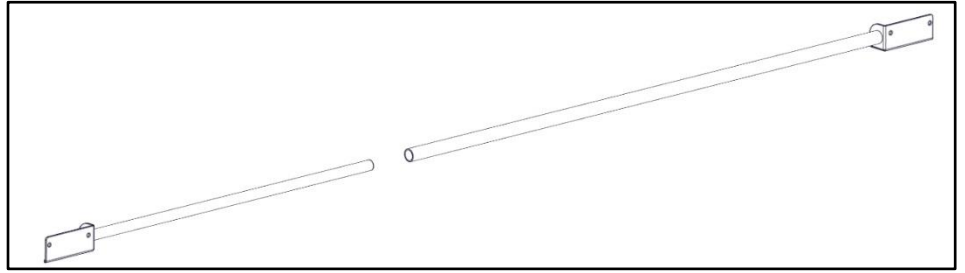
- Bolt torque tube to front and rear bow using 1/4"-20 x 1" Hex Head bolt, two 1/4" flat washers and 1/4"-20 nyloc nut at each location.



Step 5 – Install Cross Tube

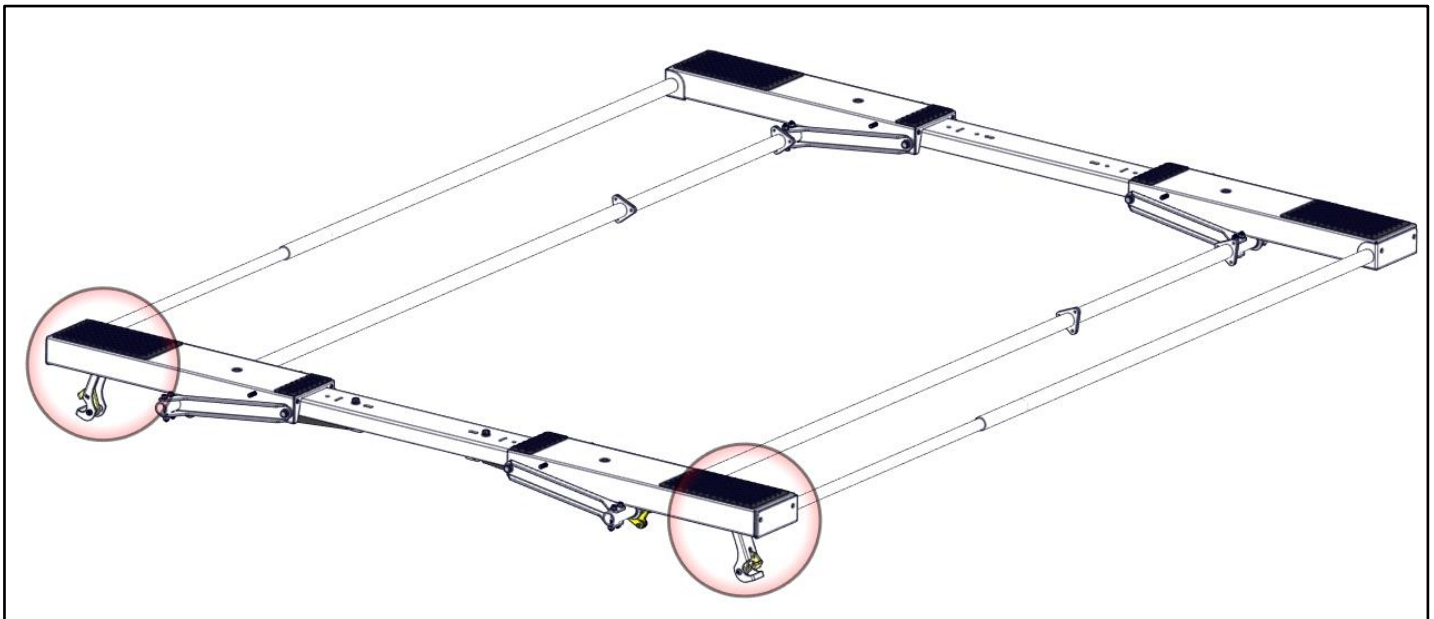
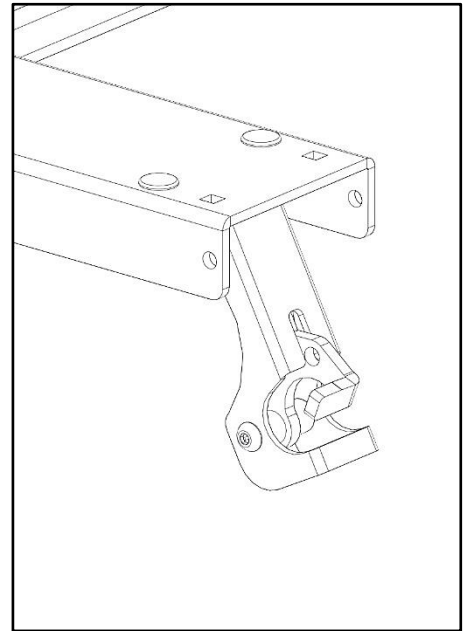
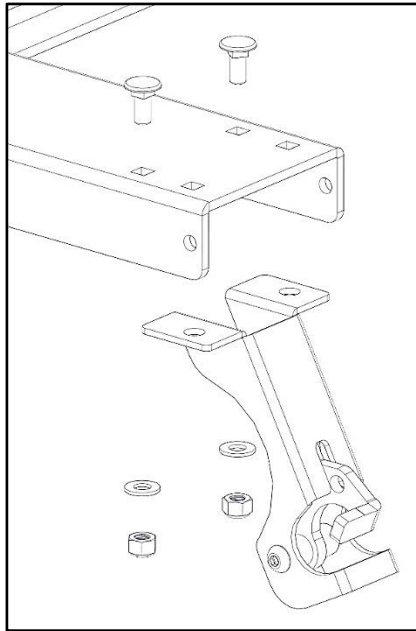
- Insert crosstube as shown. Bolt to the end of both pans using 3/8" x 3/4" Hex Head bolts, 3/8" flat washers and 3/8" nyloc nuts.
- Repeat at front and rear on the ends of both bows.
- BE SURE TO USE THE 3/4" long bolts.

TIGHTEN



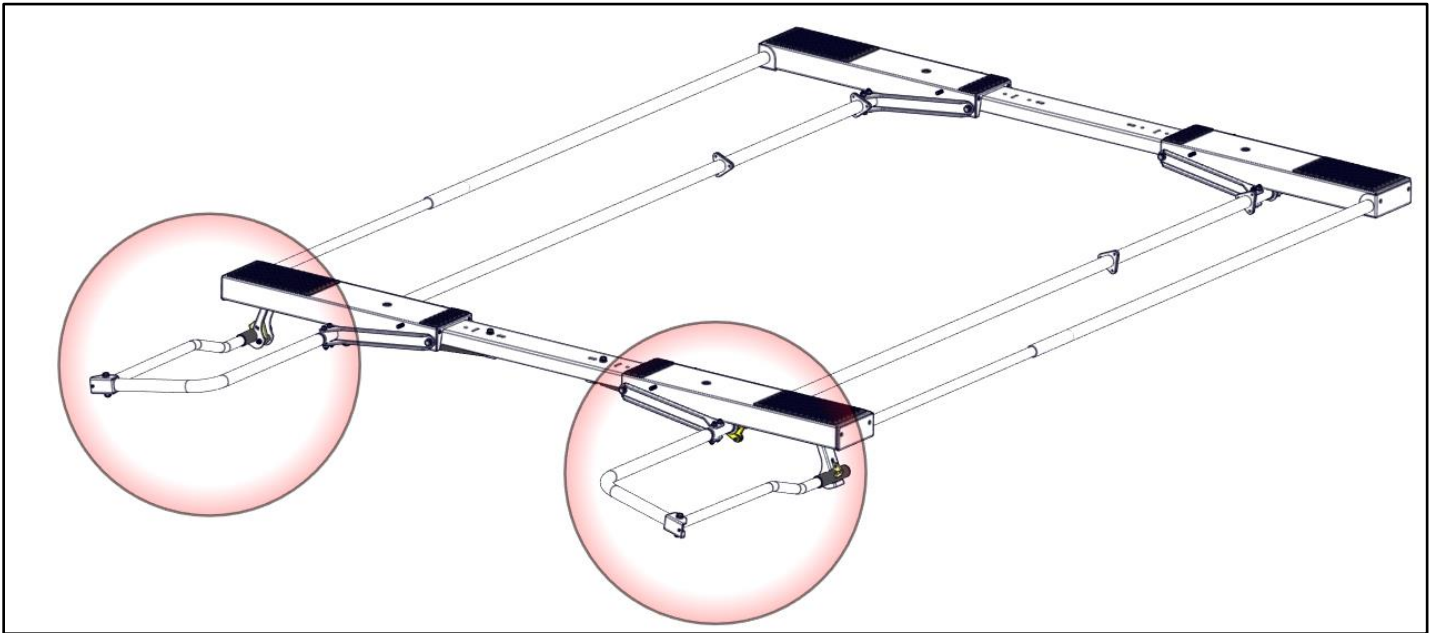
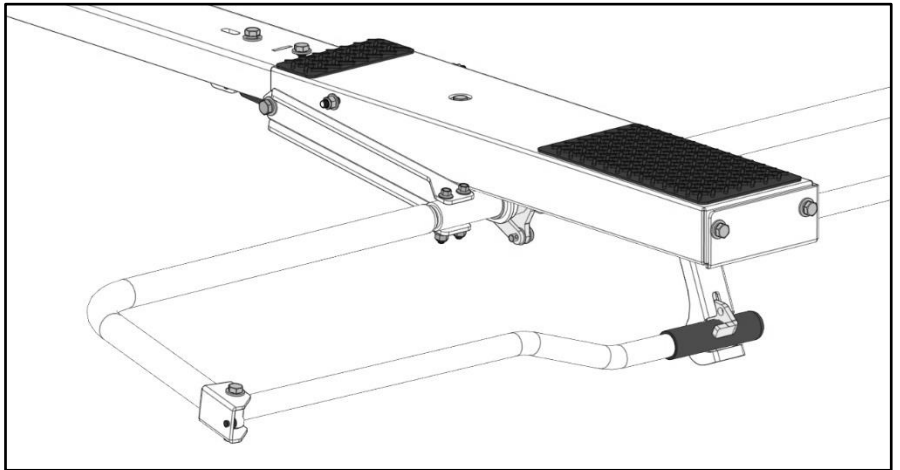
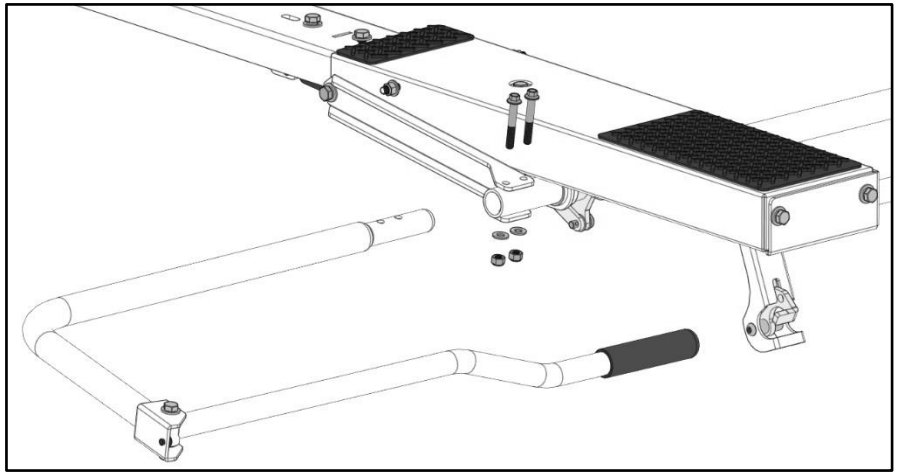
Step 6 – Install Latch

- Move rear pan assembly out of the way to expose the end of the crossmember.
- Bolt latch assembly to end of crossmember using 5/16" x 1" carriage bolts, 5/16" flat washers and 5/16" nyloc nuts.
- Shown without pan for clarity.
- Repeat on both ends of rear bow.
- TIGHTEN



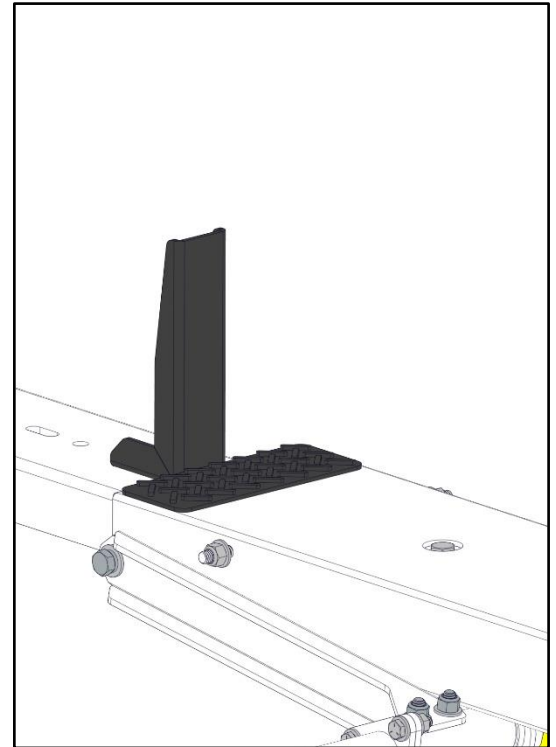
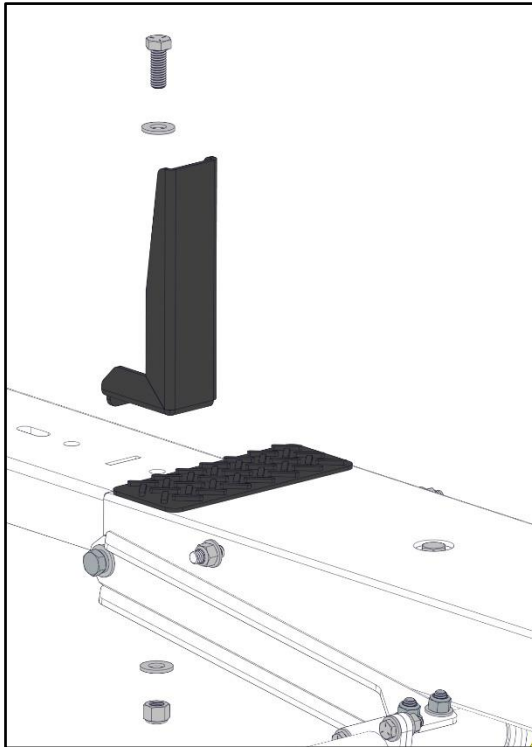
Step 7 – Install Handle

- Place handle in orientation shown. Attach handle to the rear pan using existing 5/16" hardware.
- Repeat at both ends of rear bow.
- Place BH-821 around tube connection.
- TIGHTEN

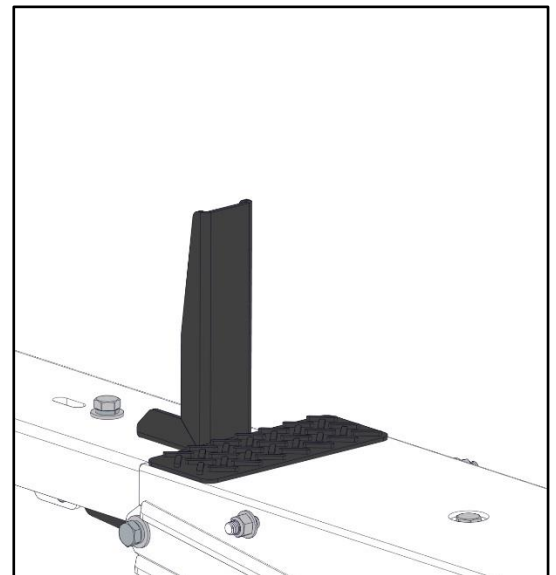
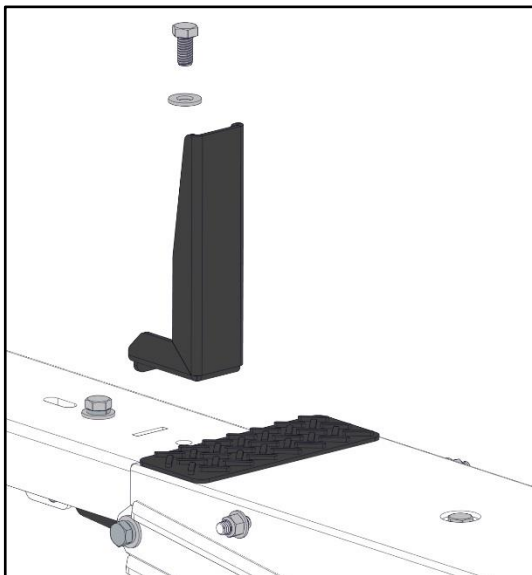


Step 8 – Ladder Stop

- Attach ladder stop to both front and rear bow. Be sure the flange of the ladder stop is aligned with the cut out in the bows.
- In the front bow, bolt in place using 3/8" x 1" hex head bolt, two 3/8" flat washers and a 3/8" nyloc nut.

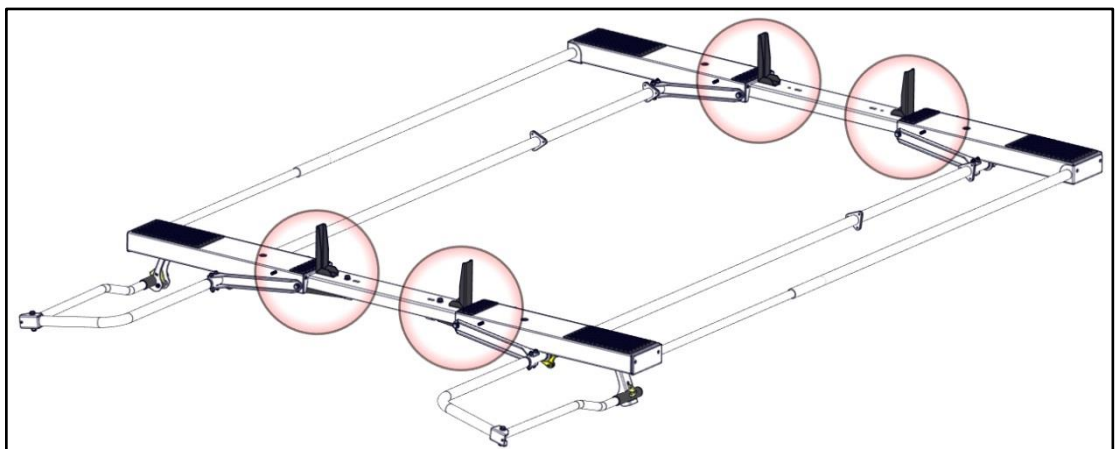


- In the rear bow, bolt in place using 3/8" x 1" hex head bolt and a 3/8" flat washer.



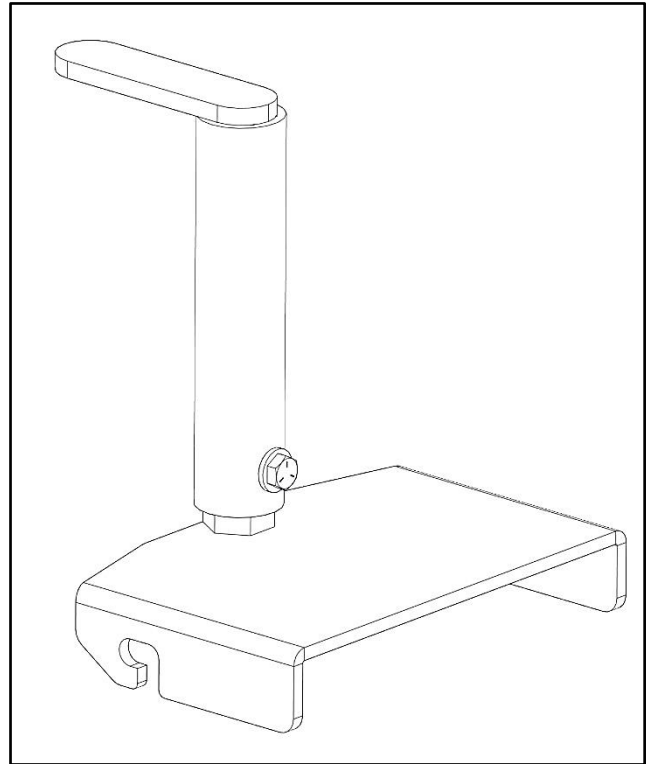
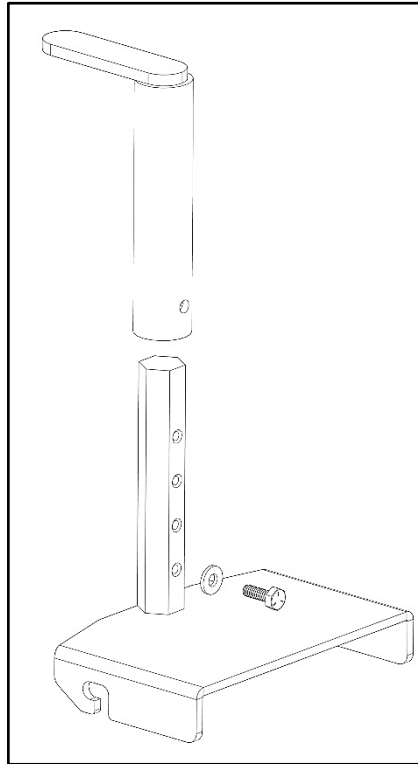
****Be sure to use the longer of the 3/8" hex head bolts****

- Repeat at both sides of each bow.
- TIGHTEN



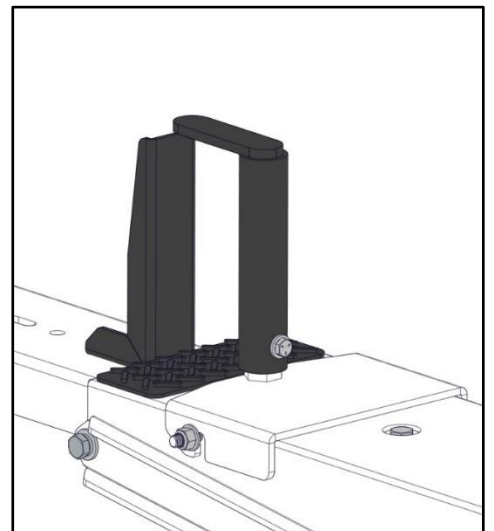
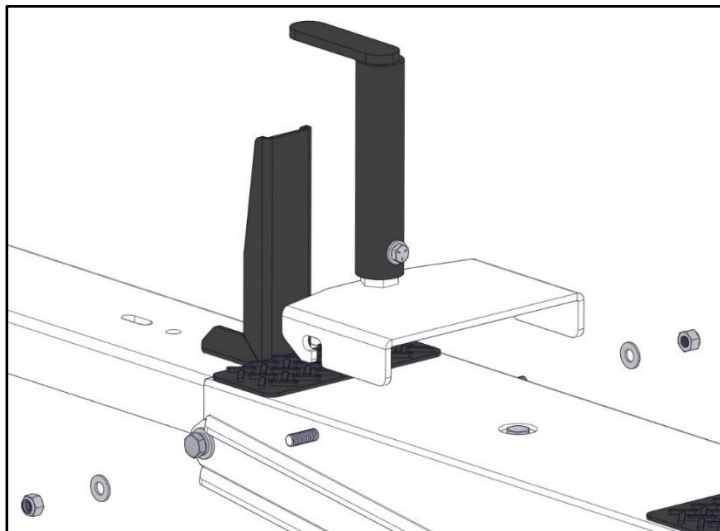
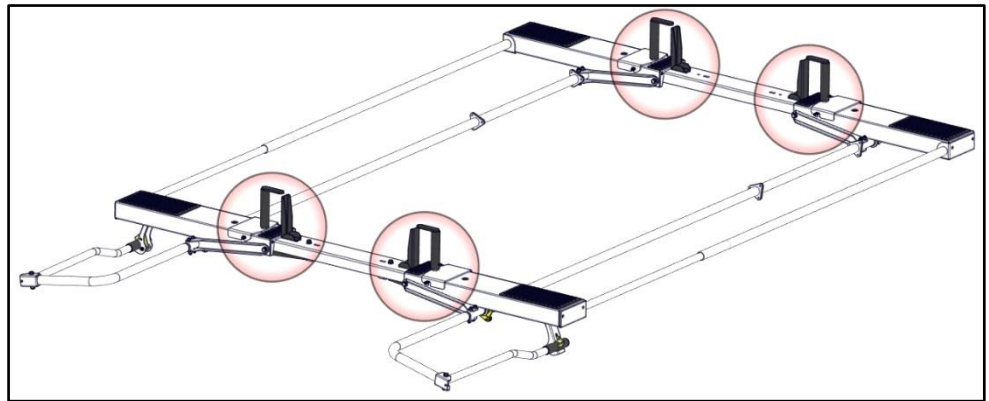
Step 9 – Assemble Ladder Hooks

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



Step 10 – Install Ladder Hooks

- Using the hardware and installed pem studs on both bows, loosen nuts and slide ladder hook assembly into place.
- TIGHTEN



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

YOUR INSTALLATION IS NOW COMPLETE

