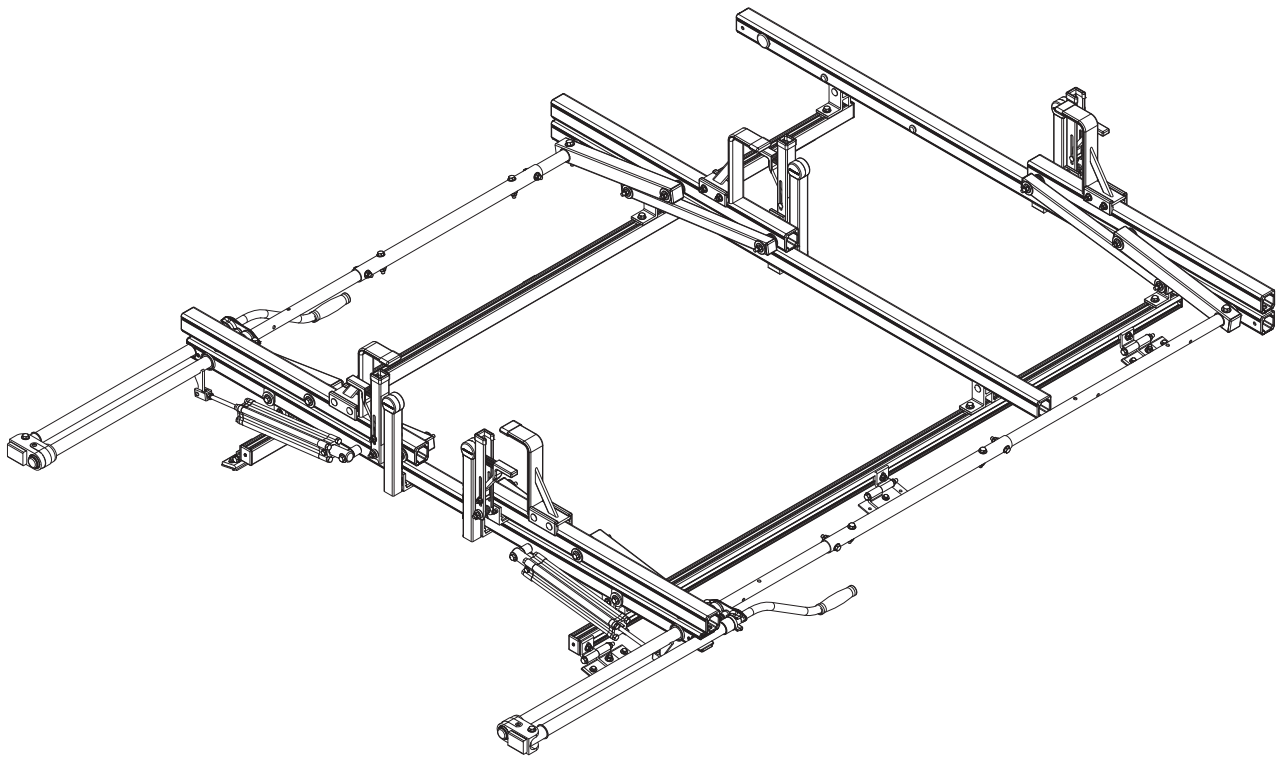


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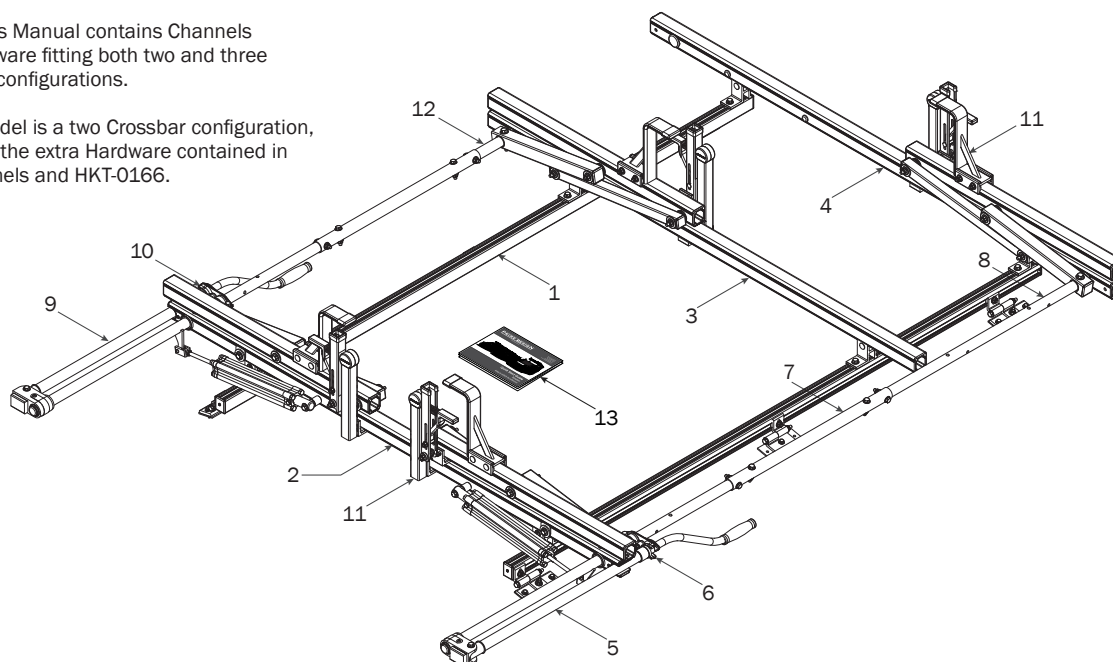


DC11B
VRR3

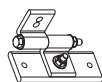
CONTENTS OVERVIEW

NOTE: This Manual contains Channels and Hardware fitting both two and three Crossbar configurations.

If your model is a two Crossbar configuration, disregard the extra Hardware contained in the Channels and HKT-0166.



1—FBM3-0113 (Qty 1) Channels with Hardware



Mounting Foot (4X)



Mounting Mid-Foot (2X)



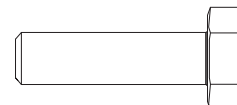
Foam Pad (6X)



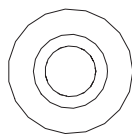
Channel Bracket (6X)



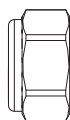
M8 x 20MM (6X)



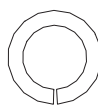
M6 x 25MM (10X)



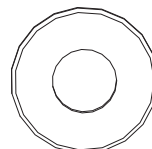
Sealing Washer (10X)



M8 Lock Nut (6X)



5/16" Lock Washer (6X)

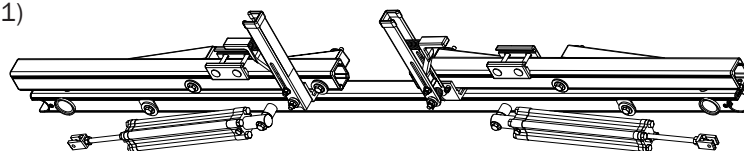


5/16" Flat Washer (22X)

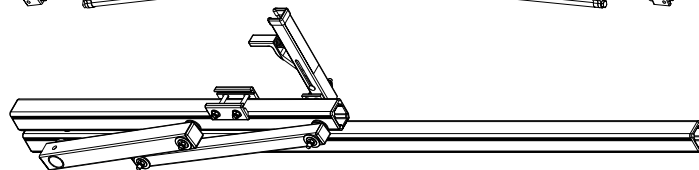


Anti-Seize (1X)

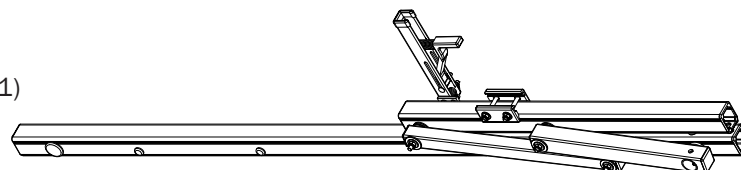
2—Rear Crossbar Assembly..... (Qty 1)



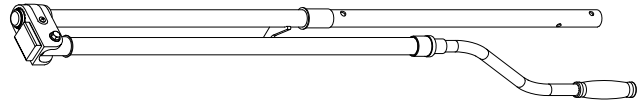
3—Center Crossbar Assembly..... (Qty 1)



4—Front Crossbar Assembly (Qty 1)



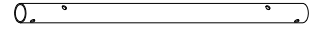
5—Rear Drive Shaft..... (Qty 1)
Right Hand, B4 Version, 46.00"



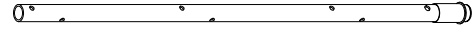
6—Handle Latch Assembly (Qty 1)
Right Hand



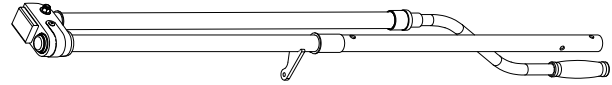
7—Connecting Bar..... (Qty 2)
2.00'



8—Front Drive Shaft (Qty 1)
B Version, 35.75"



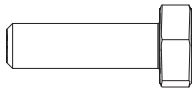
9—Rear Drive Shaft..... (Qty 1)
Left Hand, B4 Version, 46.00"



10—Handle Latch Assembly (Qty 1)
Left Hand



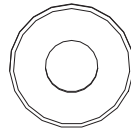
11—L & Z Post Kit..... (Qty 2)
Adj. Z Post, 7.25", L Post, w/HKT-0160



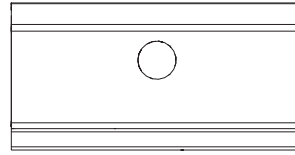
M6 x 20MM (2X)



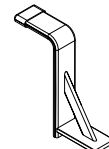
1/4 Lock Washer (2X)



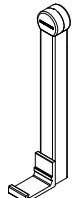
1/4 Flat Washer (2X)



L Post Bracket Clamp (2X)

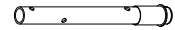


Z Post (2X)

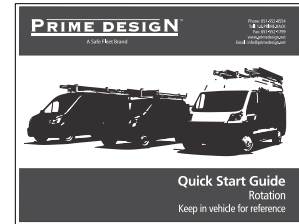


L Post (2X)

12—Front Drive Shaft..... (Qty 1)
B Version, 11.75"



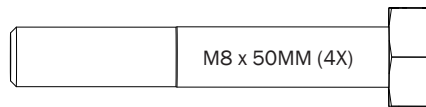
13—USQSG-Ergorack (Qty 1)
Quick Start Guide, Rotation



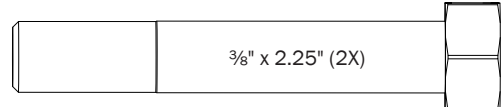
14—HKT-8163 (Not called out in Overview)..... (Qty 2)



Clevis Pin (1X)



M8 x 50MM (4X)



3/8" x 2.25" (2X)



Cotter Pin (1X)



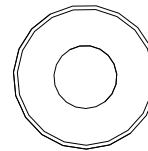
M8 x 25MM (1X)



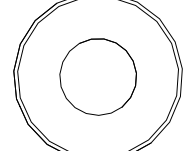
M8 Lock Nut (5X)



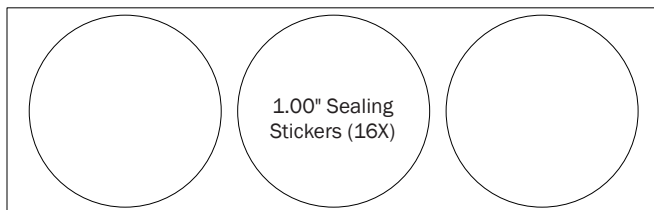
3/8" Lock Nut (2X)



5/16" Flat Washer (10X)



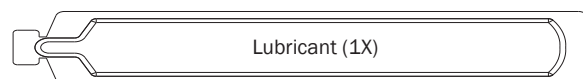
3/8" Flat Washer (4X)



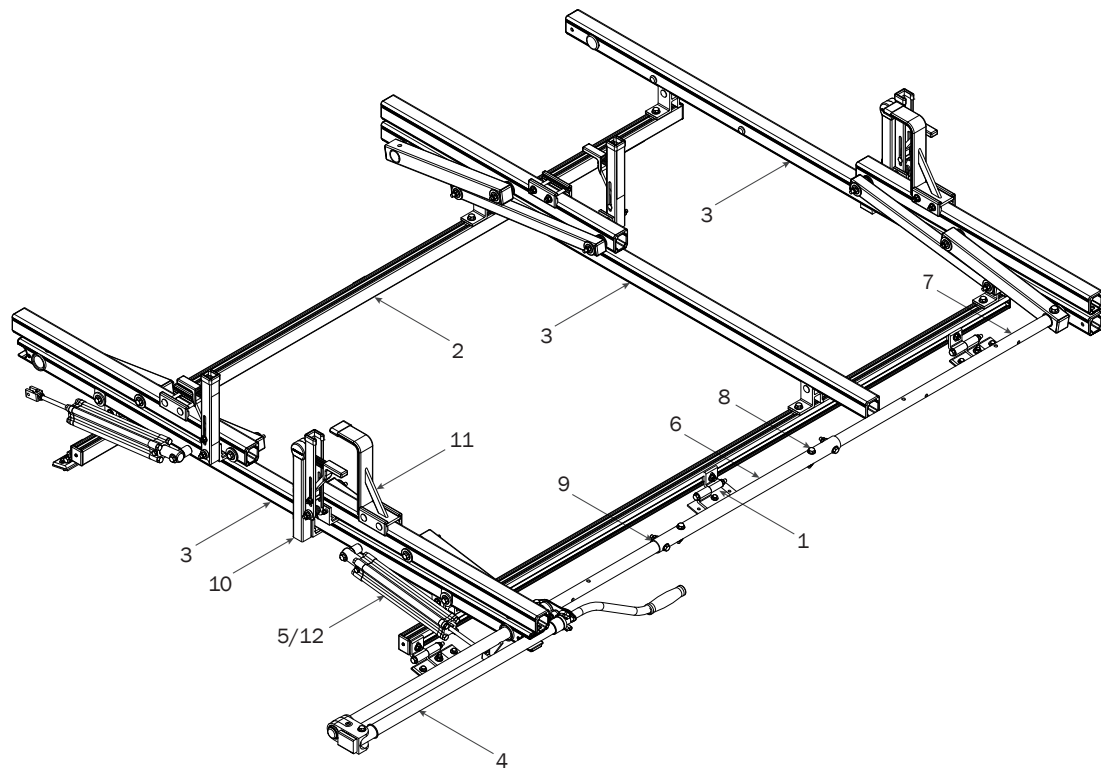
1.00" Sealing
Stickers (16X)



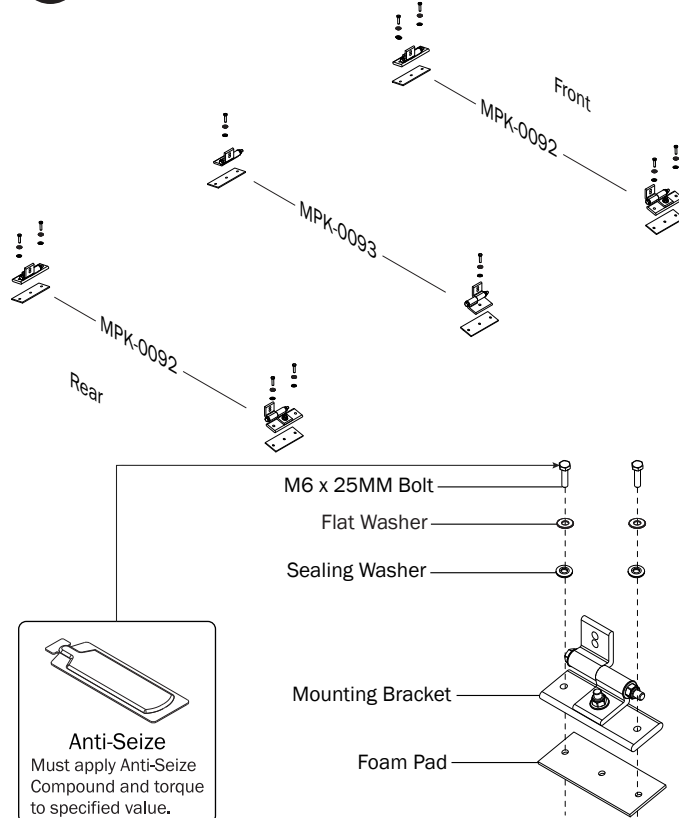
Anti-Seize (1X)



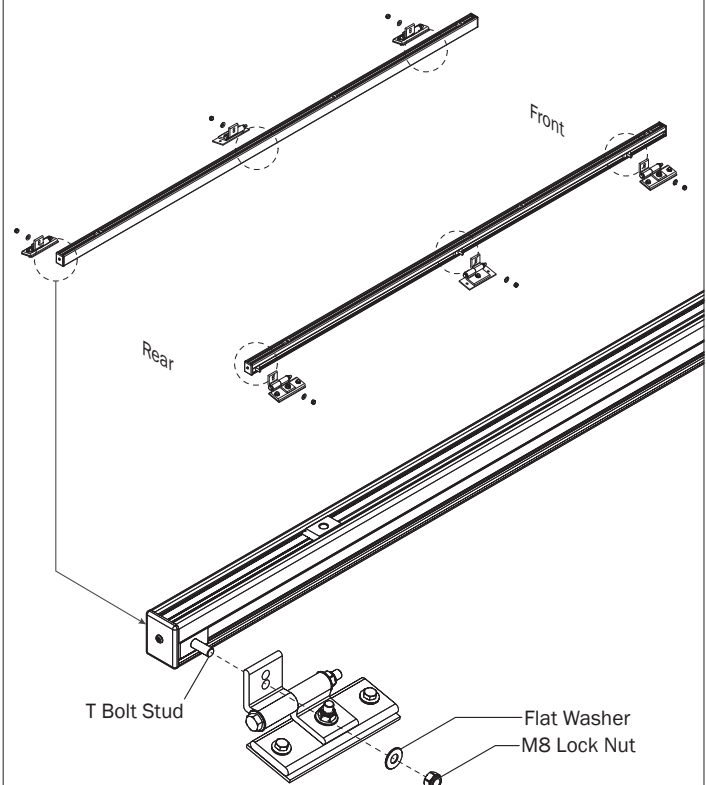
Lubricant (1X)

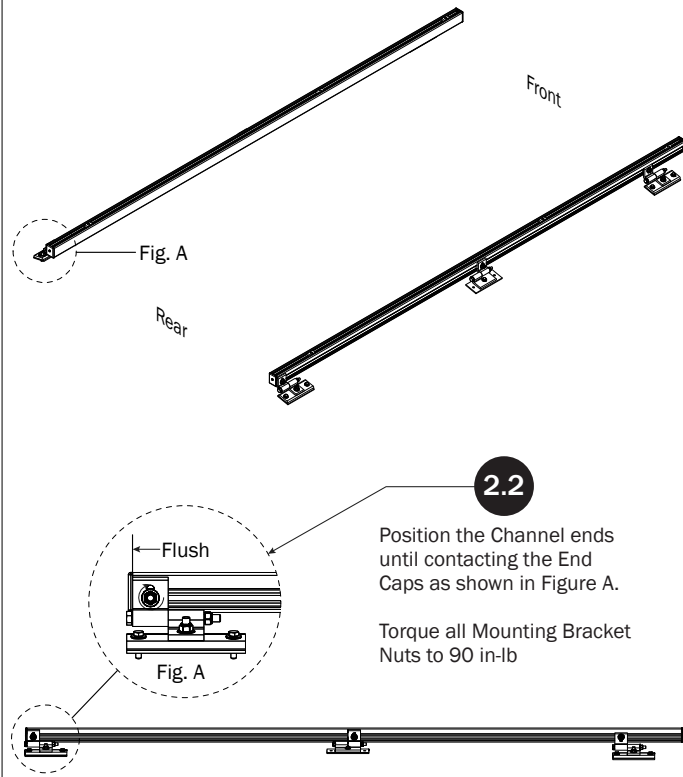
RIGHT SIDE ASSEMBLY SEQUENCE**MOUNTING BRACKETS**

- 1** Install the Channel Mounting Brackets into the vehicle's roof mounting holes and torque to 60 in-lb.

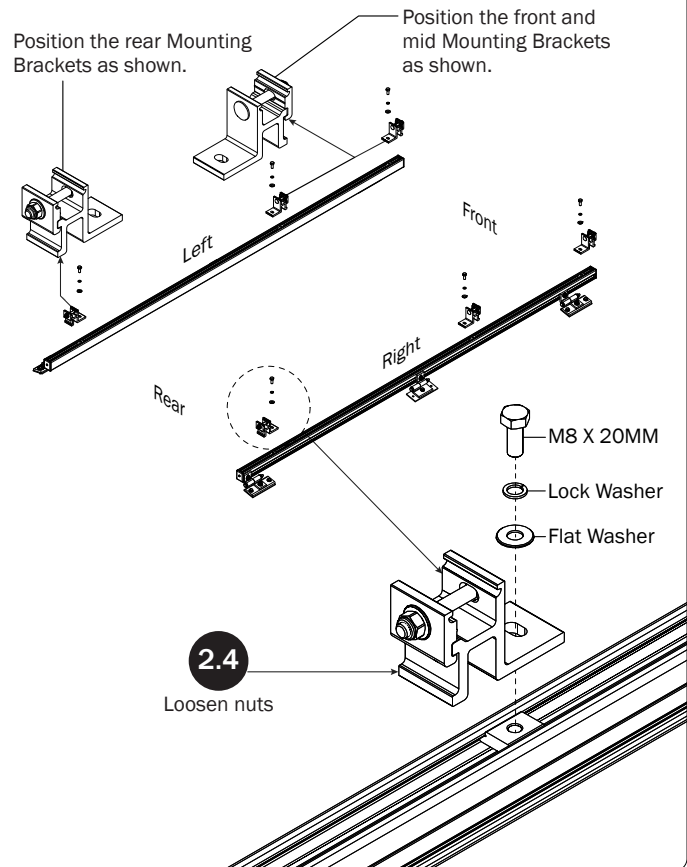
**CHANNELS**

- 2.1** Apply Anti-Seize to all M8 T Bolt studs, then attach the Channels to the Mounting Brackets using the indicated hardware. Do not tighten until Step 2.2

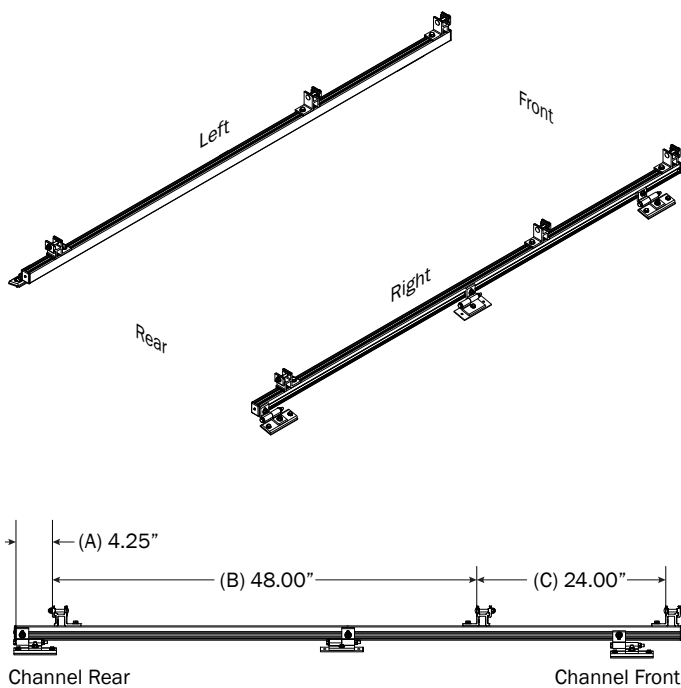


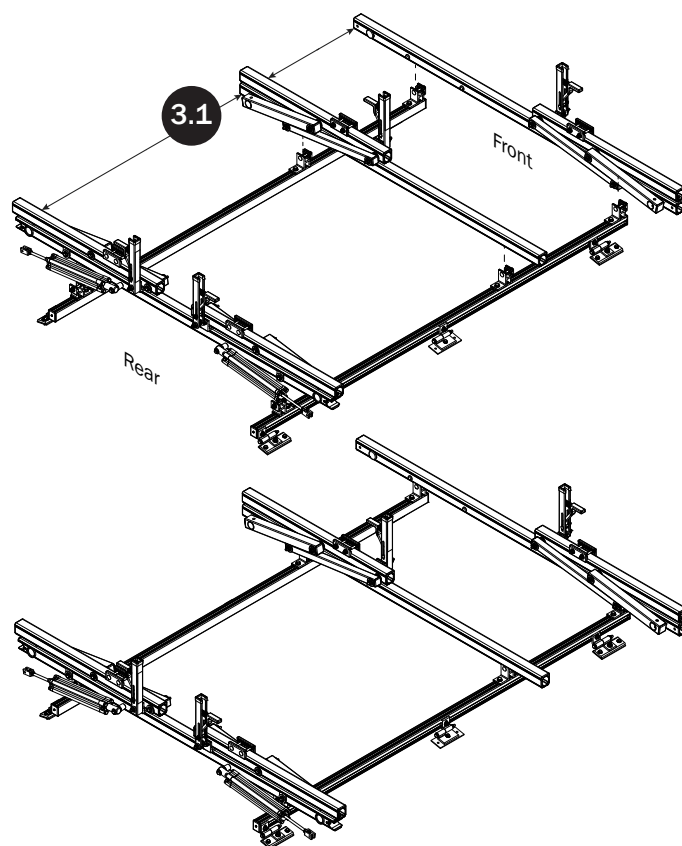
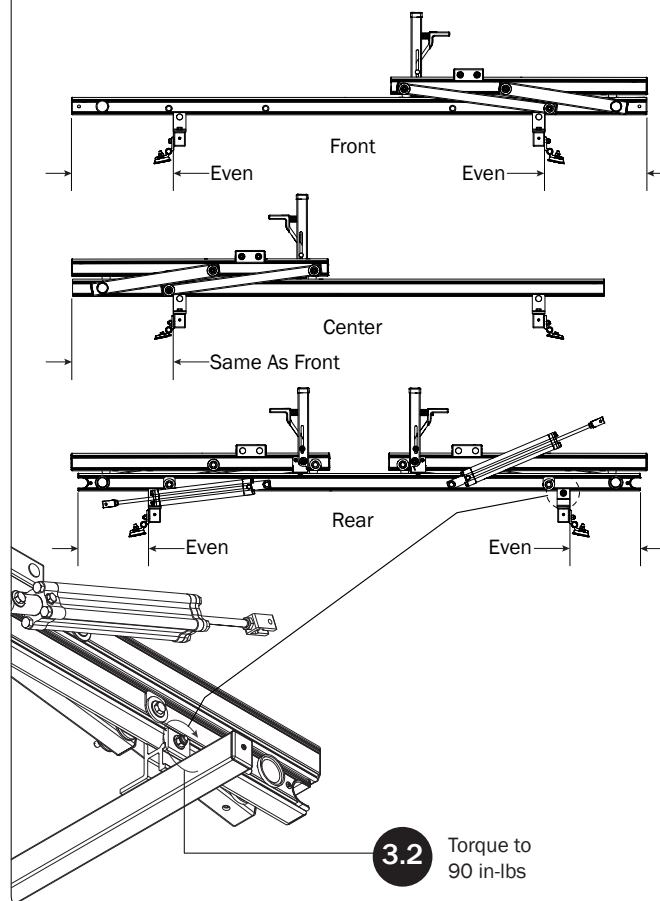


2.3 Attach Mounting Brackets to the Aluminum Strip Nuts located in the Channels

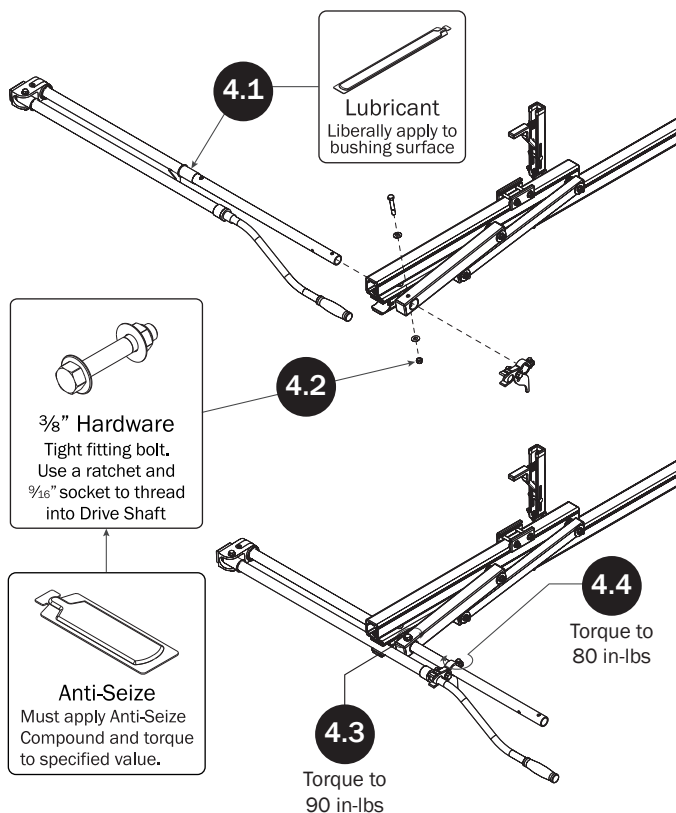
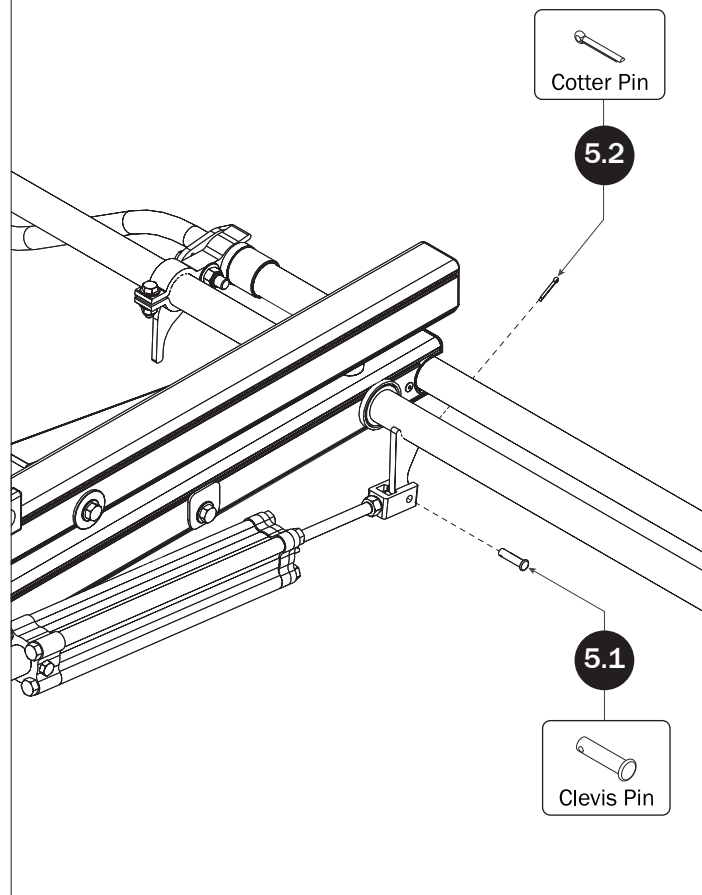


2.6 Position Mounting Brackets to designated dimension shown below, then torque the M8 X 20MM bolt to 90 in-lbs. Proceed to Step 3.1.

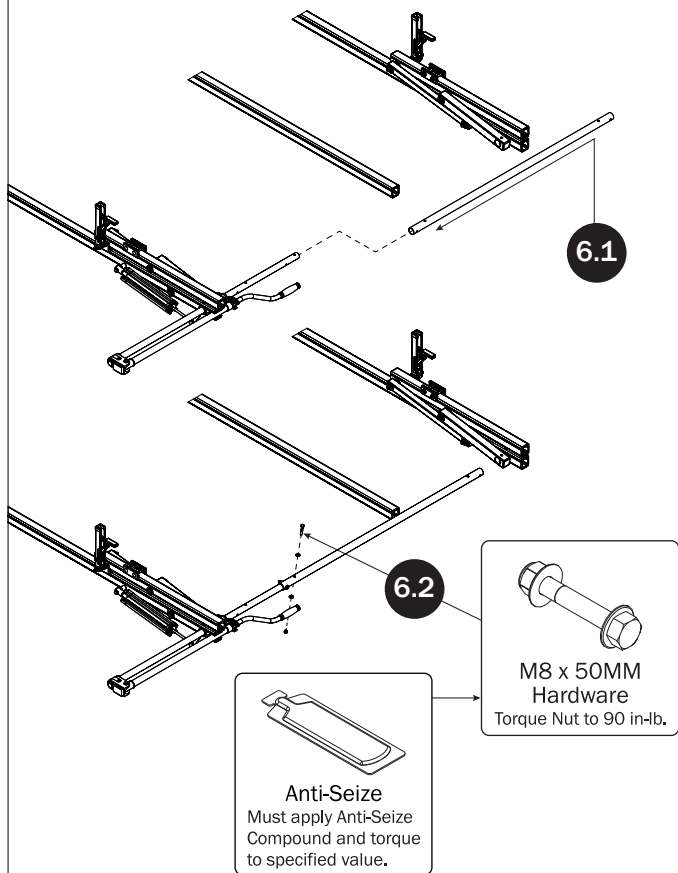


CROSSBARS**CROSSBAR ADJUSTMENT****REAR DRIVE SHAFT**

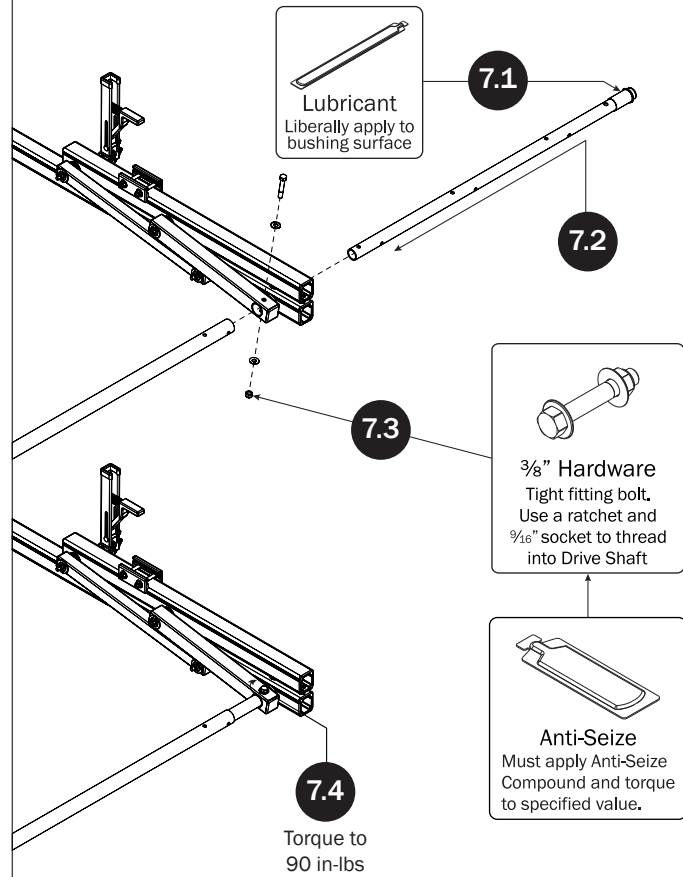
NOTE: For instructional clarity, the FBM Mounting System will not be shown for the remainder of this Assembly Manual.

**CYLINDER HARDWARE**

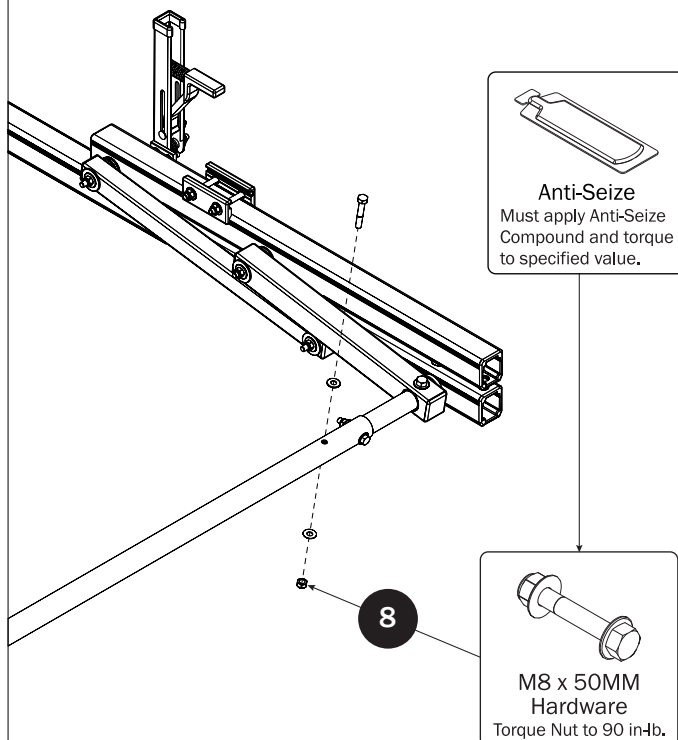
CONNECTING BAR



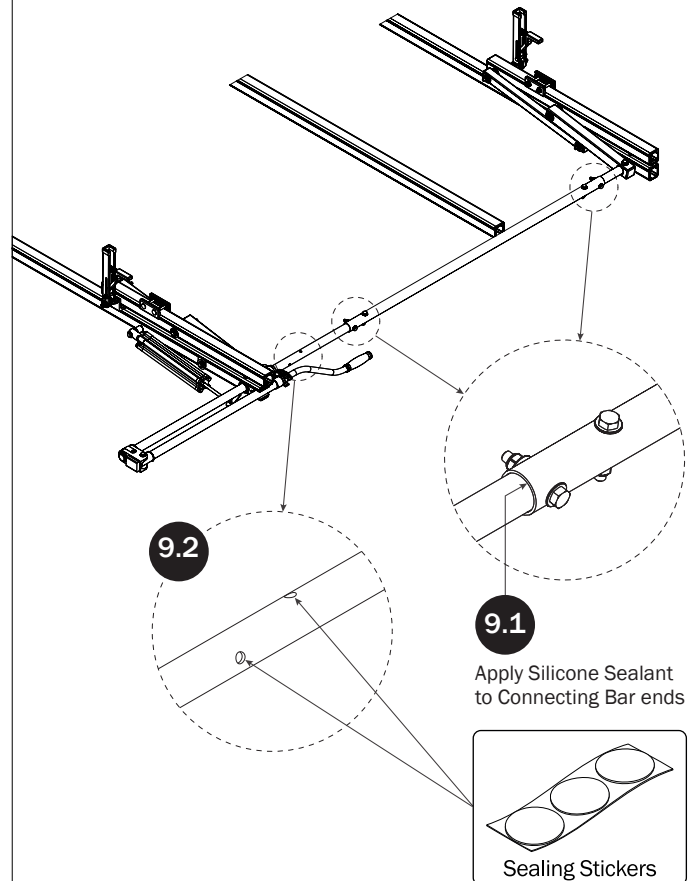
FRONT DRIVE SHAFT



CONNECTING BAR FASTENERS



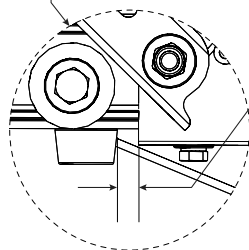
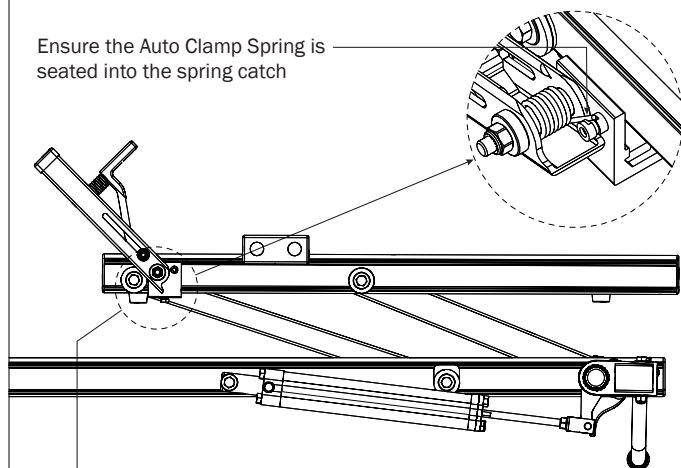
DRIVE SHAFT SEALING



L POSTS**SEE QUICK START GUIDE FOR ADJUSTMENTS**

NOTE: The Auto Clamps may come preset from the factory for packaging purposes only. To assemble the L Posts to the Crossbars, the Auto Clamps may need to be repositioned.

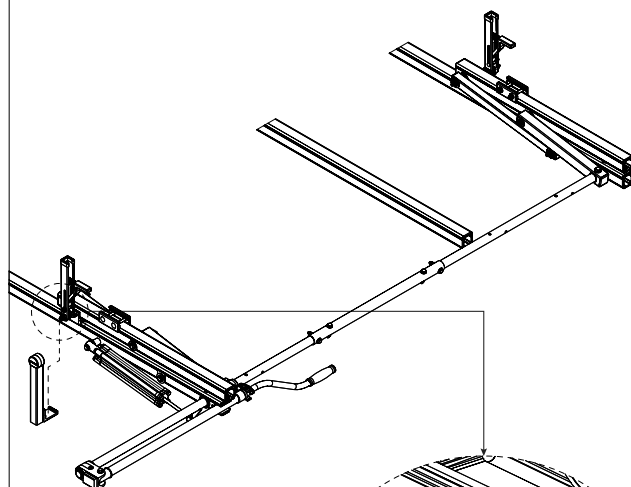
Ensure the Auto Clamp Spring is seated into the spring catch



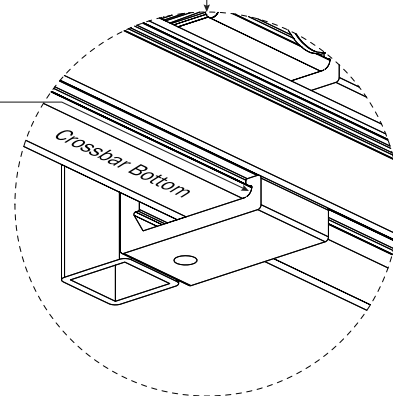
10.1 Beginning with the Rear Crossbar, loosen the bolt at the bottom of the Auto Clamp, then slide the Auto Clamp toward the inside end of the Rotation Upper. Reposition the Auto Clamp leaving a minimum of 1/4" distance from the rubber bumper to the edge of the Auto Clamp Bracket as shown, then finger-tighten if adjusting later, or torque to 80 in-lbs.

10.2

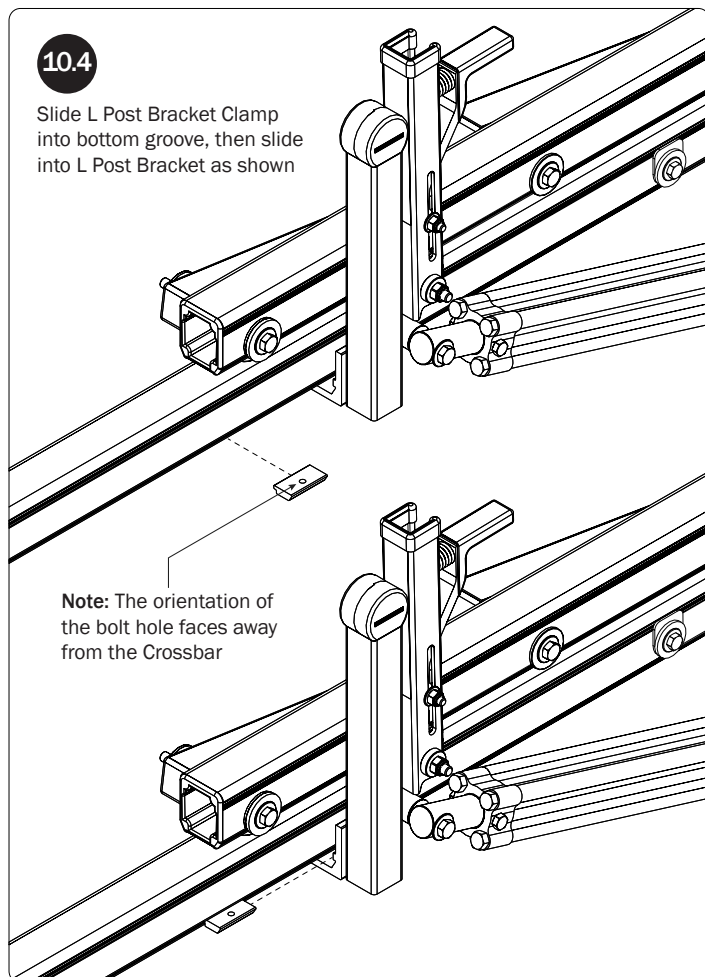
Prepare the L Post by removing the hex head bolt, lock washer, flat washer, and Bracket Clamp. Retain for installation Steps 10.4—10.8.

**10.3**

Place the L Post into the bottom groove of the Rear Crossbar, ensuring the L Post seats into the Crossbar's inside bottom groove as seen from the front of the Rear Crossbar

**10.4**

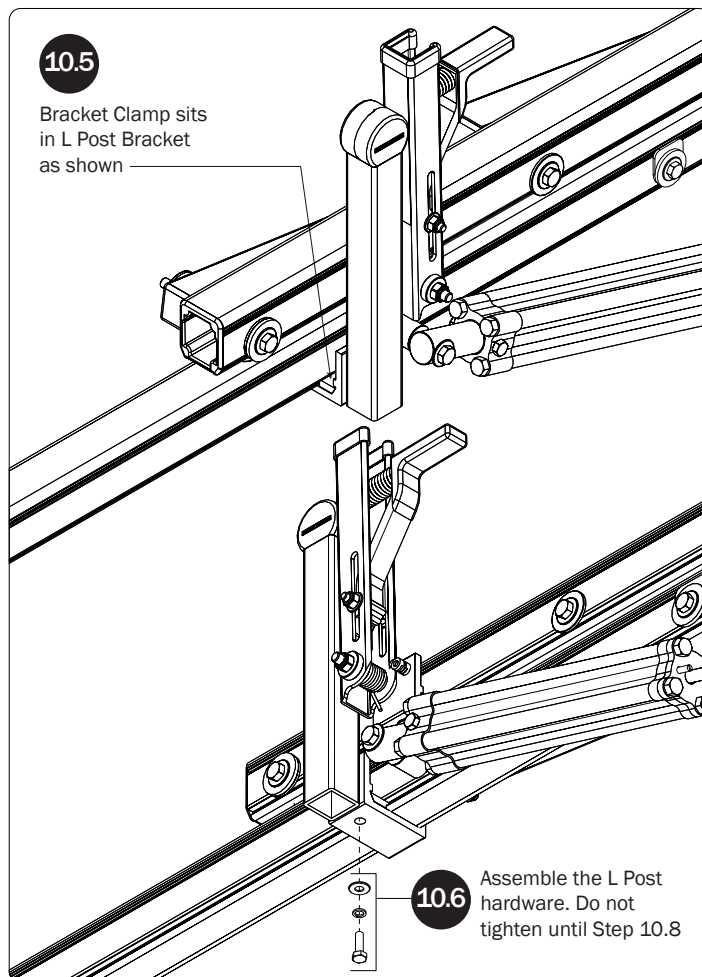
Slide L Post Bracket Clamp into bottom groove, then slide into L Post Bracket as shown



Note: The orientation of the bolt hole faces away from the Crossbar

10.5

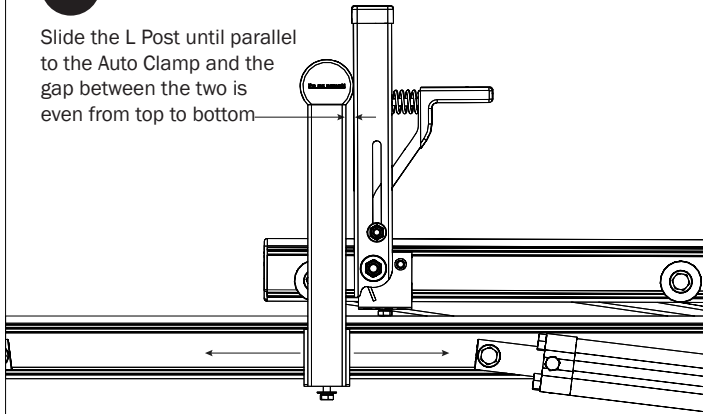
Bracket Clamp sits in L Post Bracket as shown

**10.6**

Assemble the L Post hardware. Do not tighten until Step 10.8

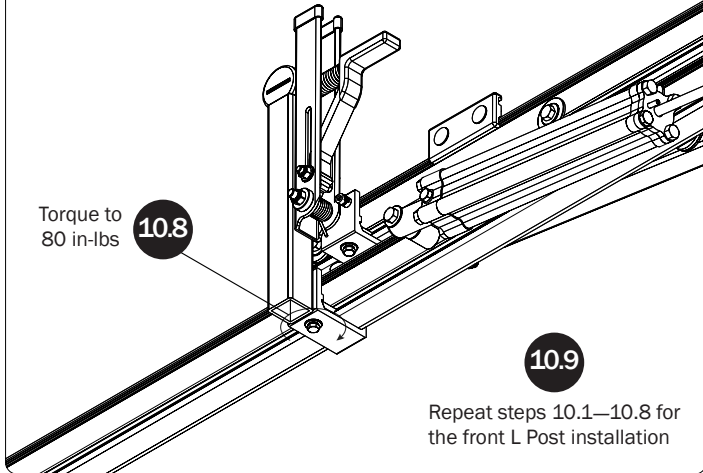
10.7

Slide the L Post until parallel to the Auto Clamp and the gap between the two is even from top to bottom



Torque to 80 in-lbs

10.8

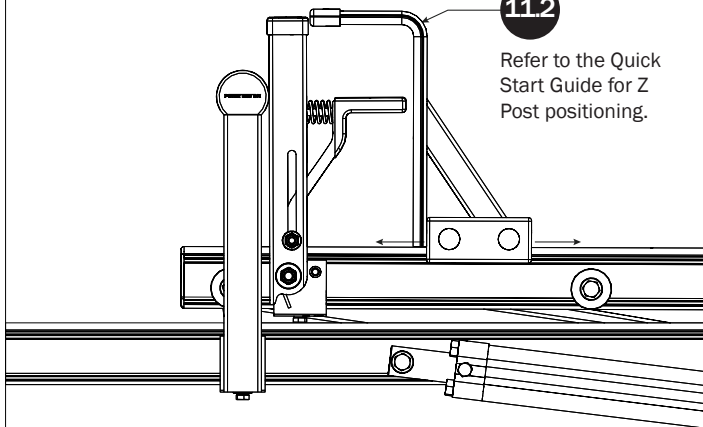


10.9

Repeat steps 10.1—10.8 for the front L Post installation

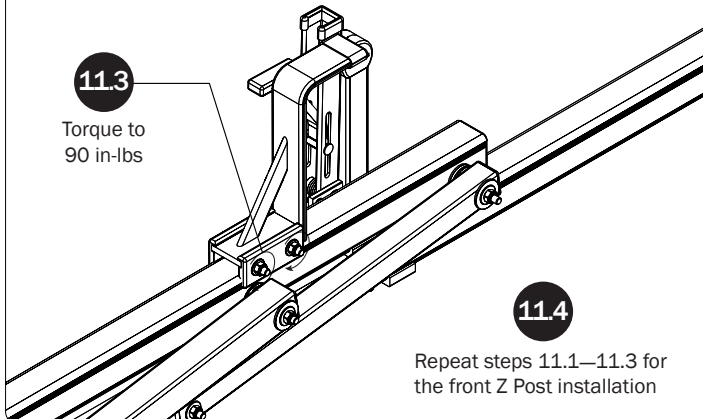
11.2

Refer to the Quick Start Guide for Z Post positioning.



11.3

Torque to 90 in-lbs



11.4

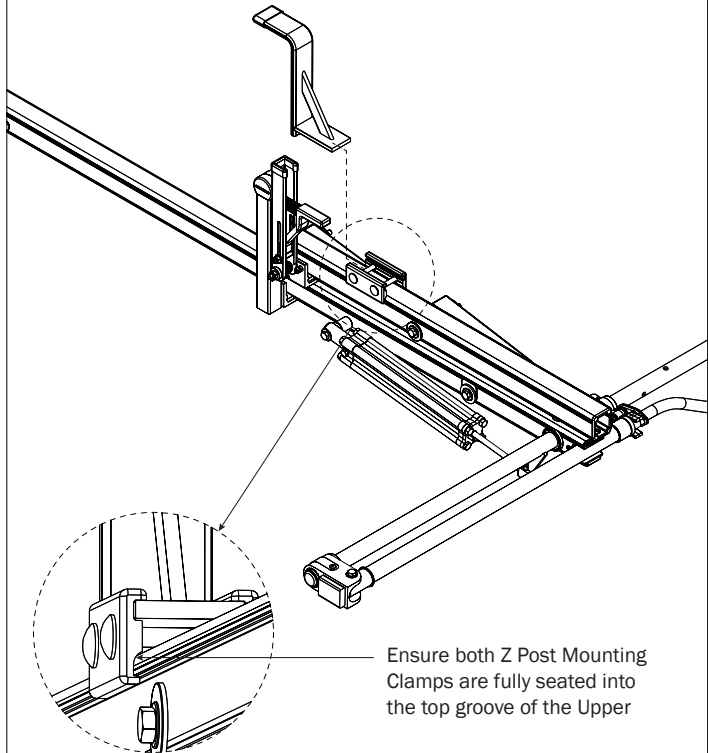
Repeat steps 11.1—11.3 for the front Z Post installation

Z POSTS

SEE QUICK START GUIDE FOR ADJUSTMENTS

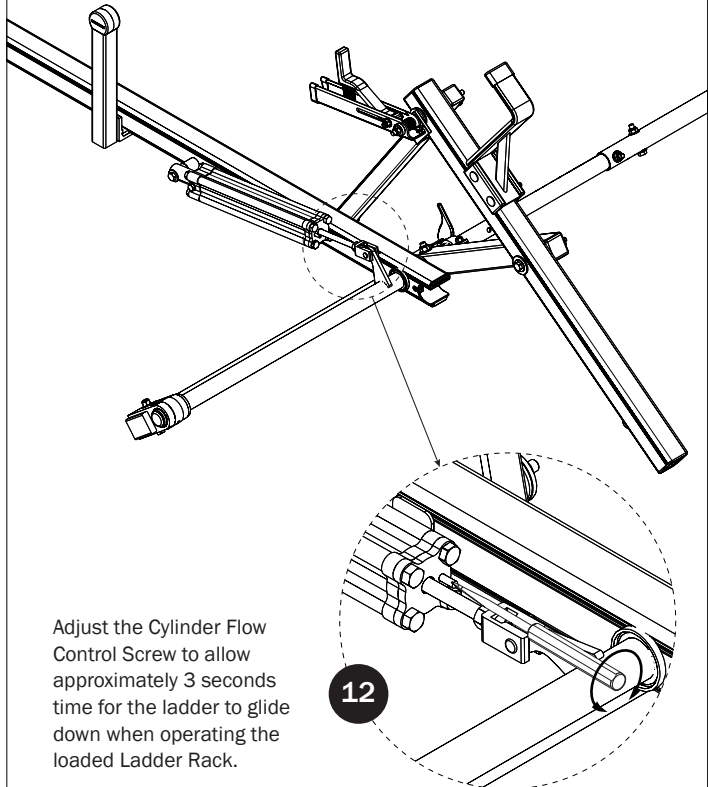
11.1

Slide the Z Post into the Mounting Clamp Assembly



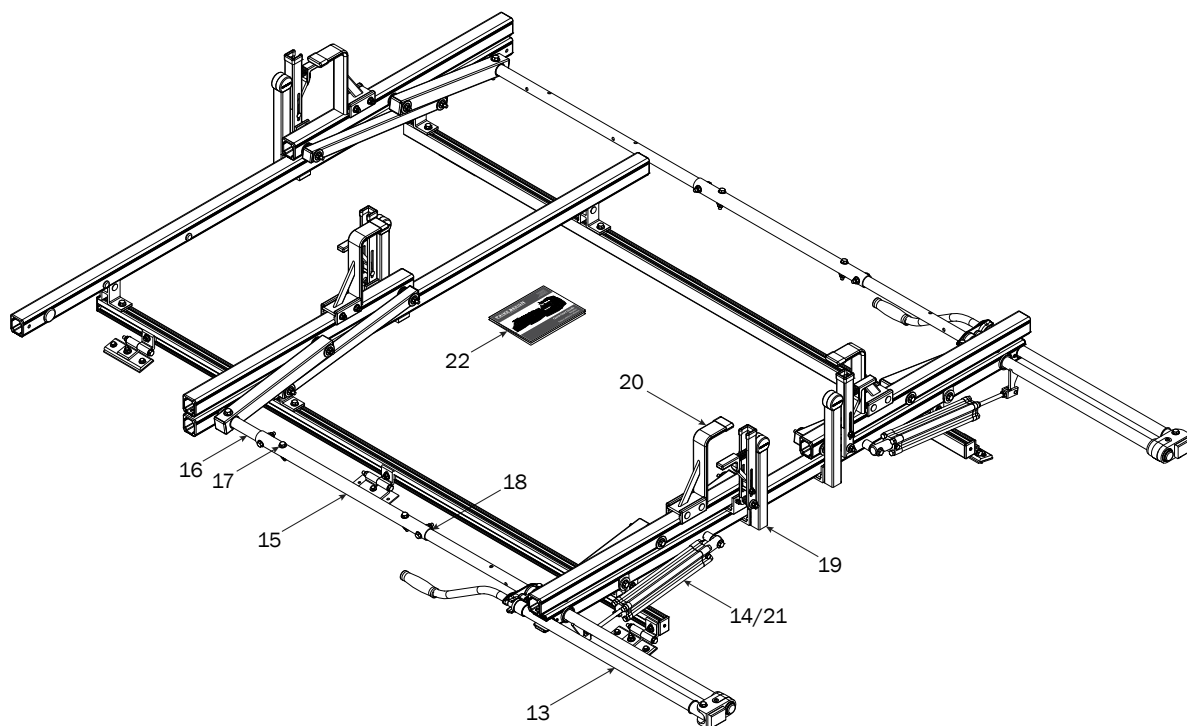
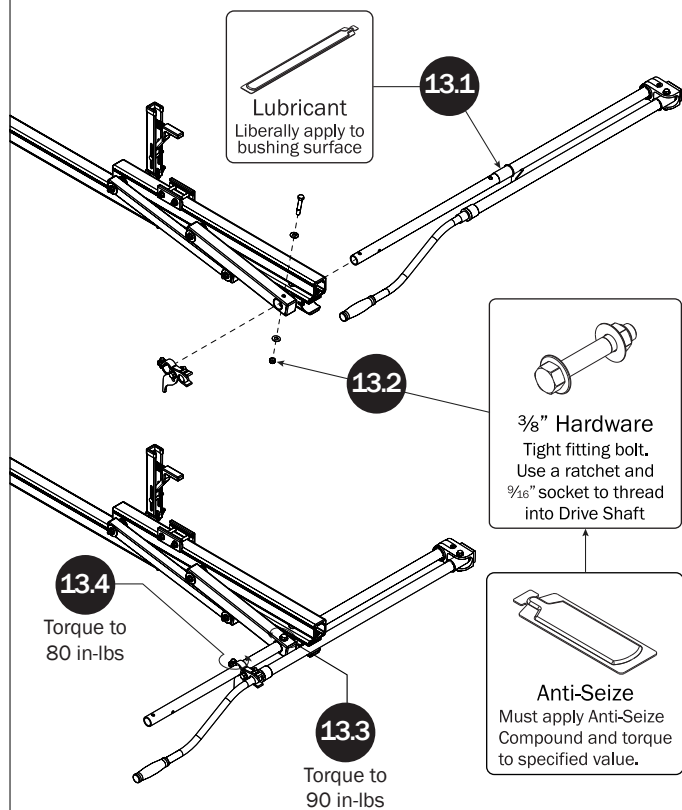
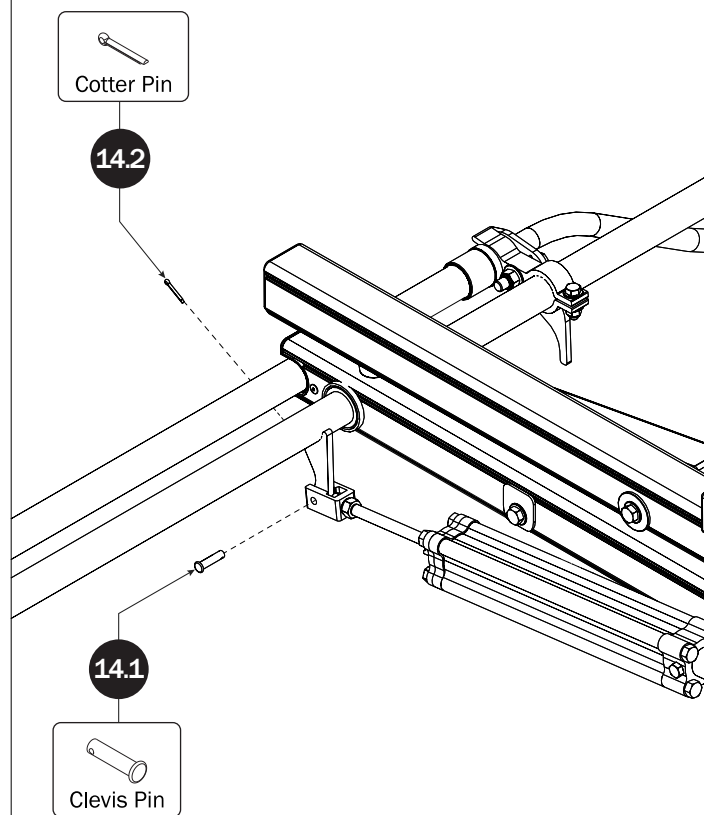
Ensure both Z Post Mounting Clamps are fully seated into the top groove of the Upper

CYLINDER ADJUSTMENT

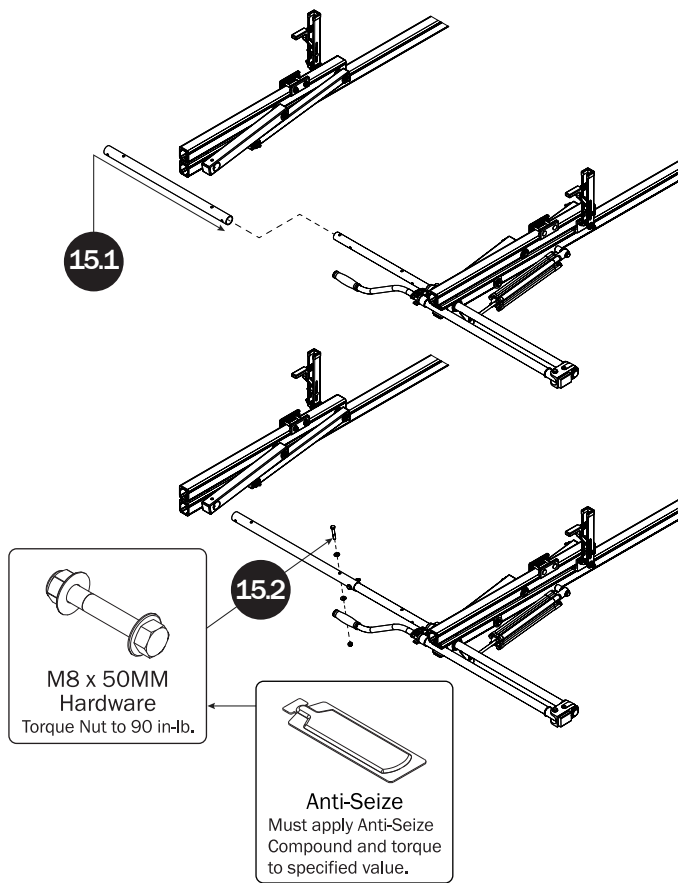


12

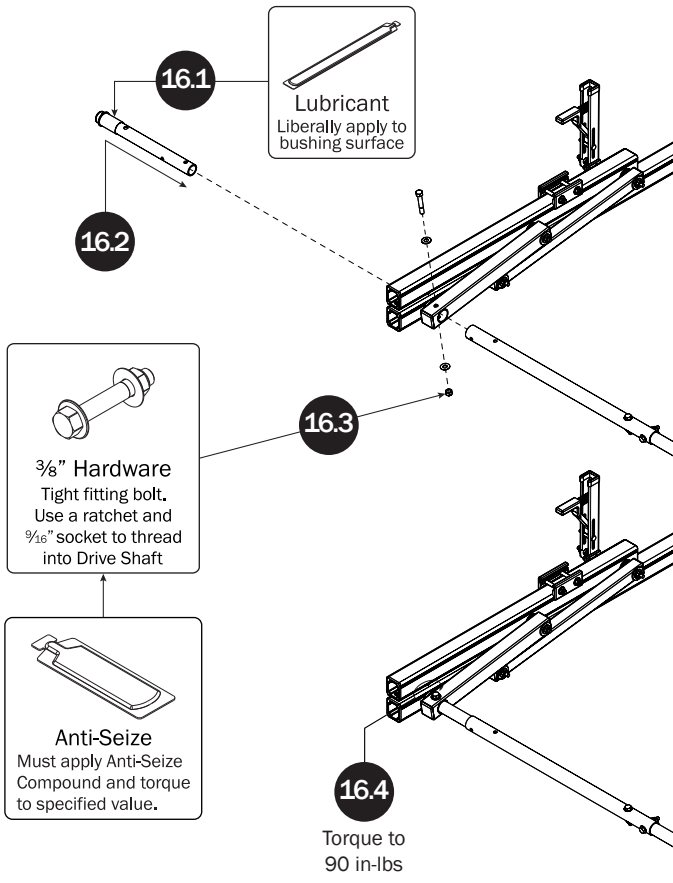
Adjust the Cylinder Flow Control Screw to allow approximately 3 seconds time for the ladder to glide down when operating the loaded Ladder Rack.

LEFT SIDE ASSEMBLY SEQUENCE**REAR DRIVE SHAFT****CYLINDER HARDWARE**

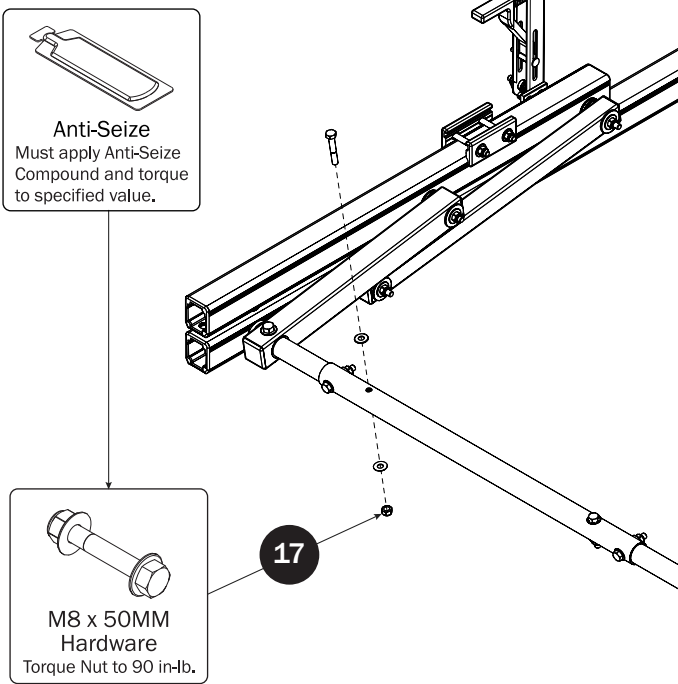
CONNECTING BAR



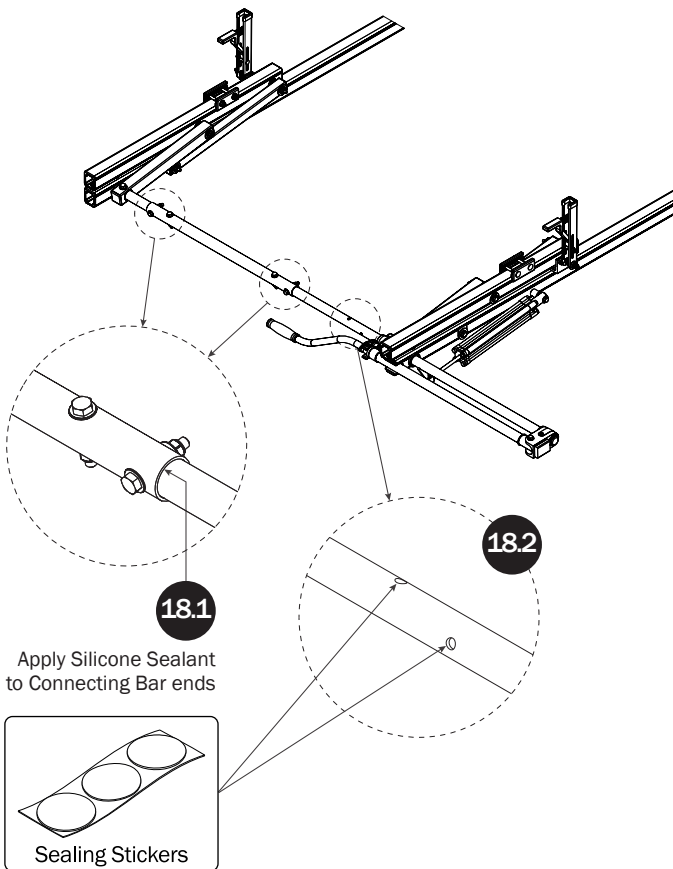
FRONT DRIVE SHAFT



CONNECTING BAR FASTENERS

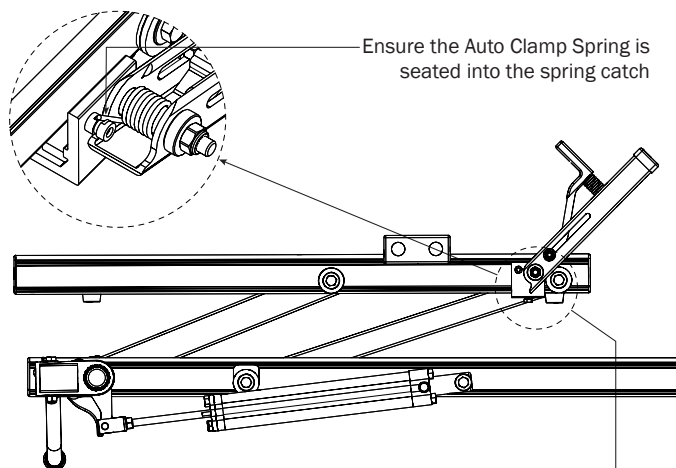


DRIVE SHAFT SEALING



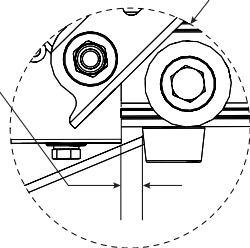
L POSTS**SEE QUICK START GUIDE FOR ADJUSTMENTS**

NOTE: The Auto Clamps may come preset from the factory for packaging purposes only. To assemble the L Posts to the Crossbars, the Auto Clamps may need to be repositioned.

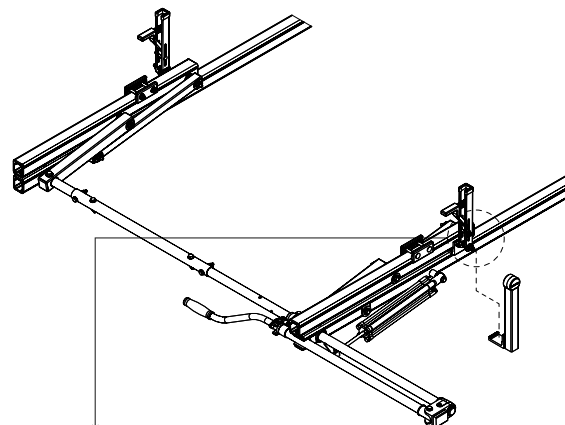
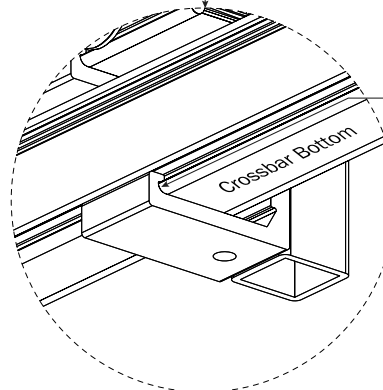


Ensure the Auto Clamp Spring is seated into the spring catch

Beginning with the Rear Crossbar, loosen the bolt at the bottom of the Auto Clamp, then slide the Auto Clamp toward the inside end of the Rotation Upper. Reposition the Auto Clamp leaving a minimum of 1/4" distance from the rubber bumper to the edge of the Auto Clamp Bracket as shown, then finger-tighten if adjusting later, or torque to 80 in-lbs.

19.1**19.2**

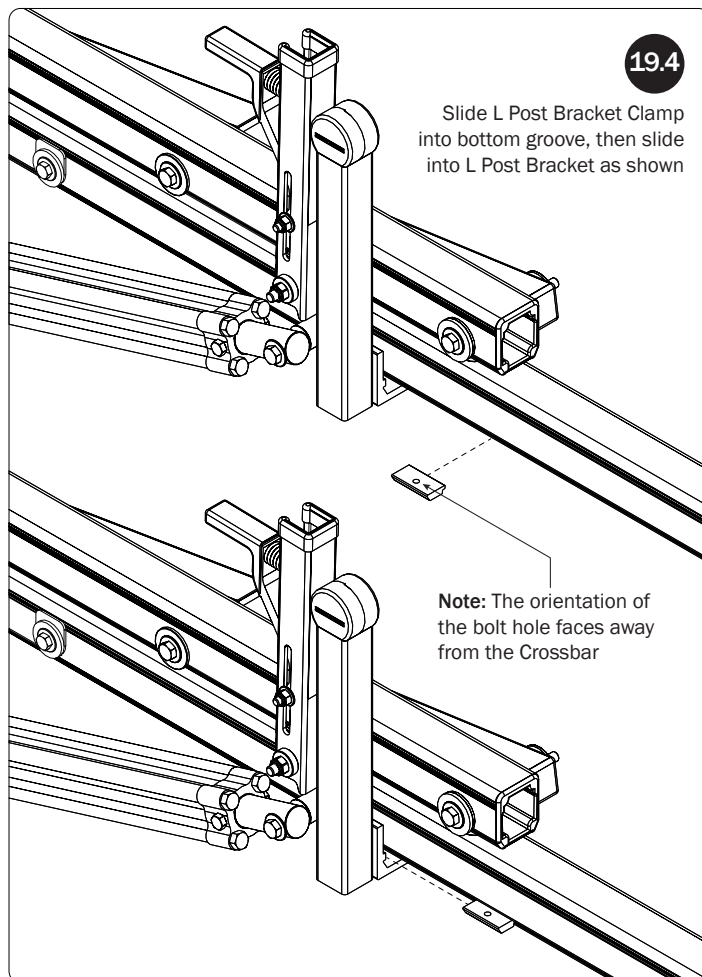
Prepare the L Post by removing the hex head bolt, lock washer, flat washer, and Bracket Clamp. Retain for installation Steps 19.4—19.8.

**19.3**

Place the L Post into the bottom groove of the Rear Crossbar, ensuring the L Post seats into the Crossbar's inside bottom groove as seen from the front of the Rear Crossbar

19.4

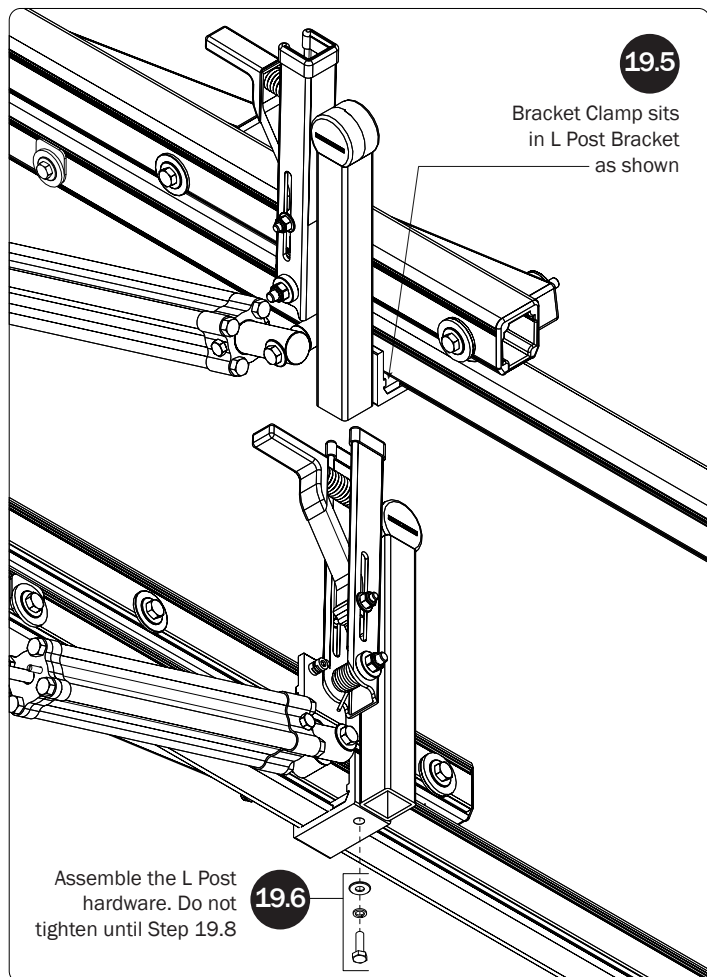
Slide L Post Bracket Clamp into bottom groove, then slide into L Post Bracket as shown



Note: The orientation of the bolt hole faces away from the Crossbar

19.5

Bracket Clamp sits in L Post Bracket as shown



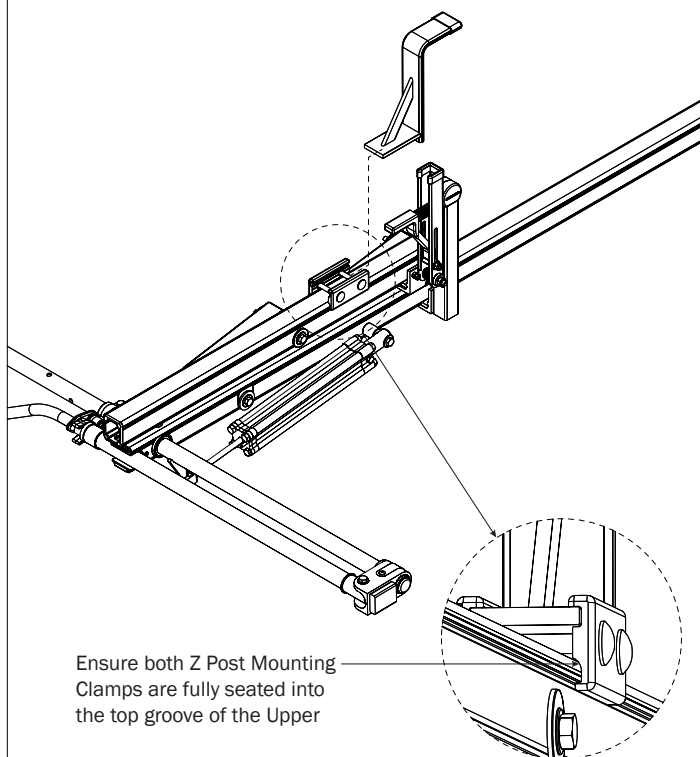
Assemble the L Post hardware. Do not tighten until Step 19.8

19.6

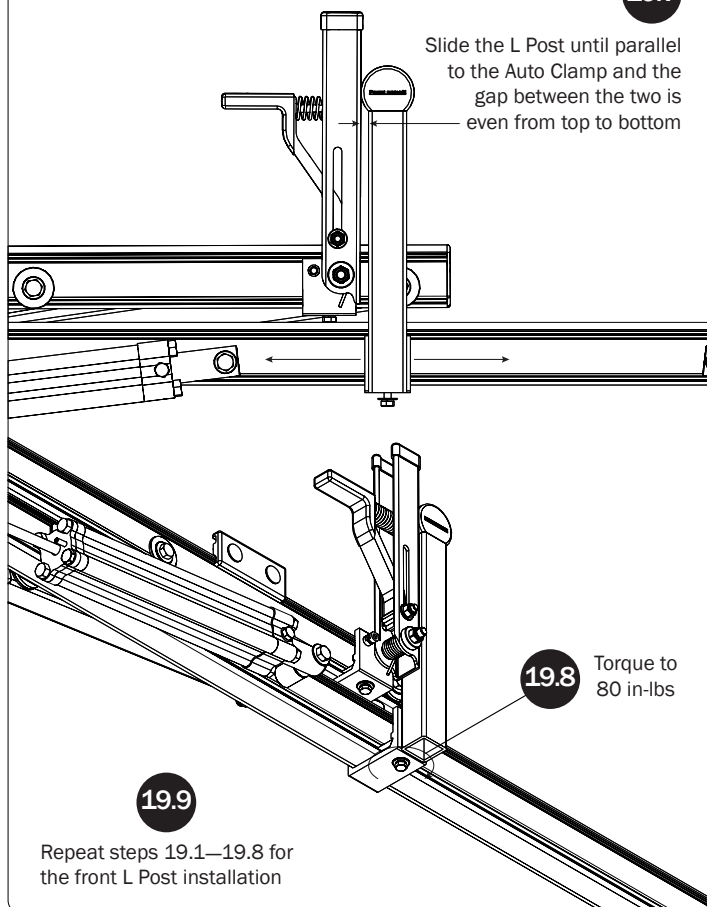
Z POSTS

SEE QUICK START GUIDE FOR ADJUSTMENTS

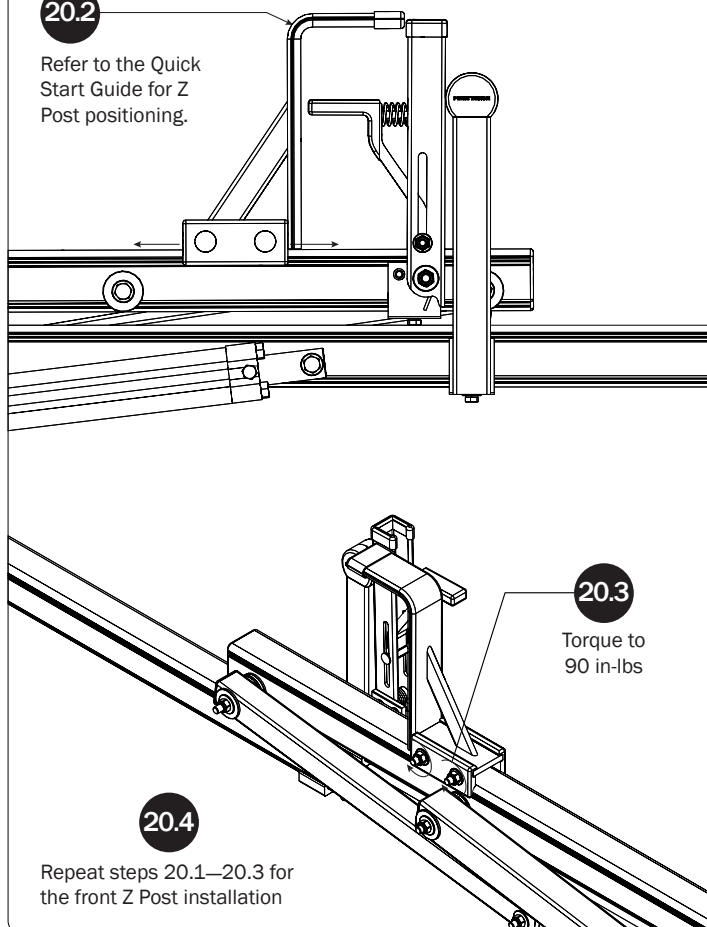
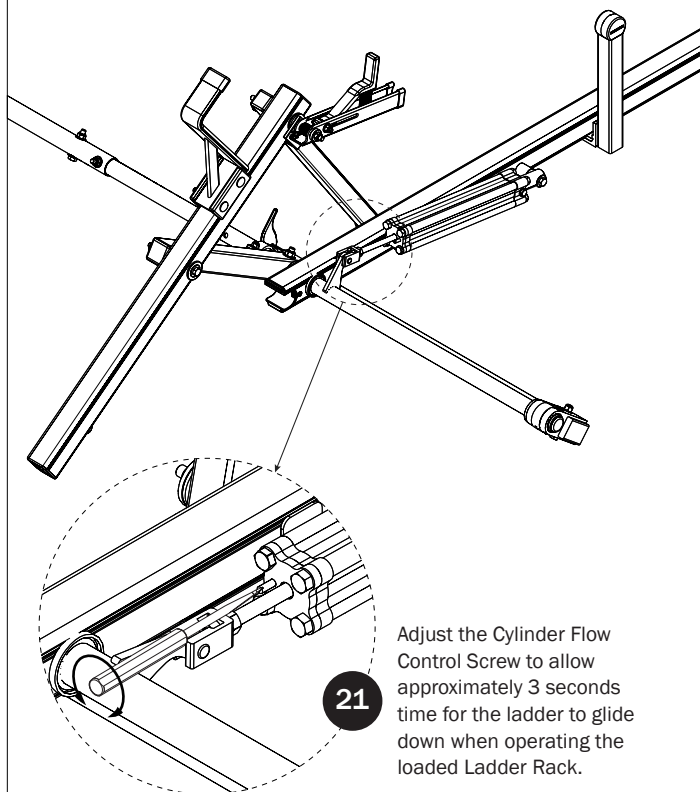
- 20.1** Slide the Z Post into the Mounting Clamp Assembly

**19.7**

Slide the L Post until parallel to the Auto Clamp and the gap between the two is even from top to bottom

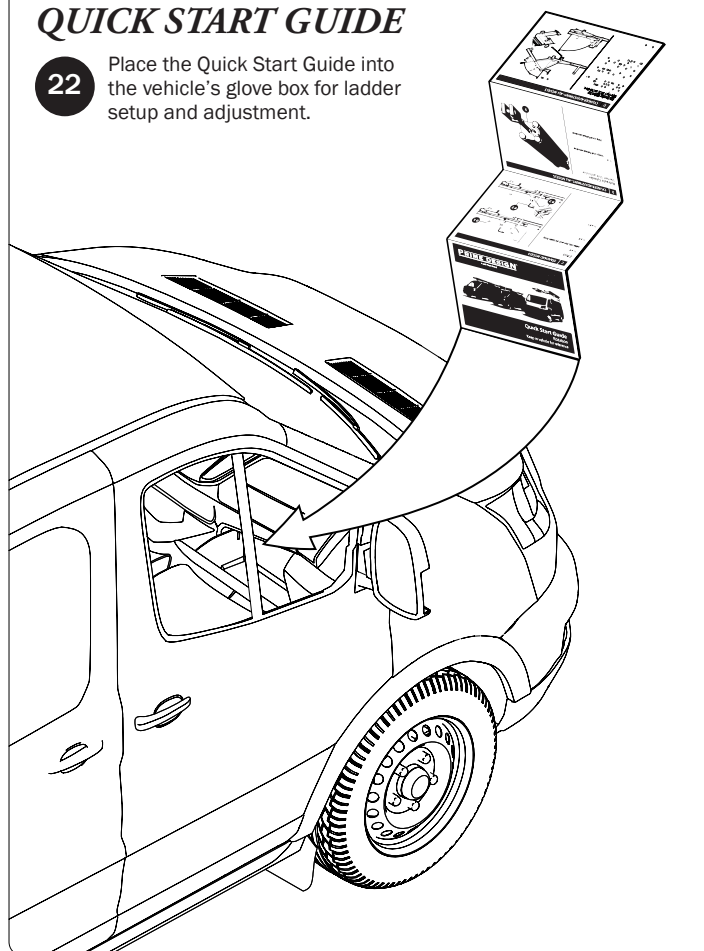
**20.2**

Refer to the Quick Start Guide for Z Post positioning.

**CYLINDER ADJUSTMENT**

QUICK START GUIDE**22**

Place the Quick Start Guide into the vehicle's glove box for ladder setup and adjustment.



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