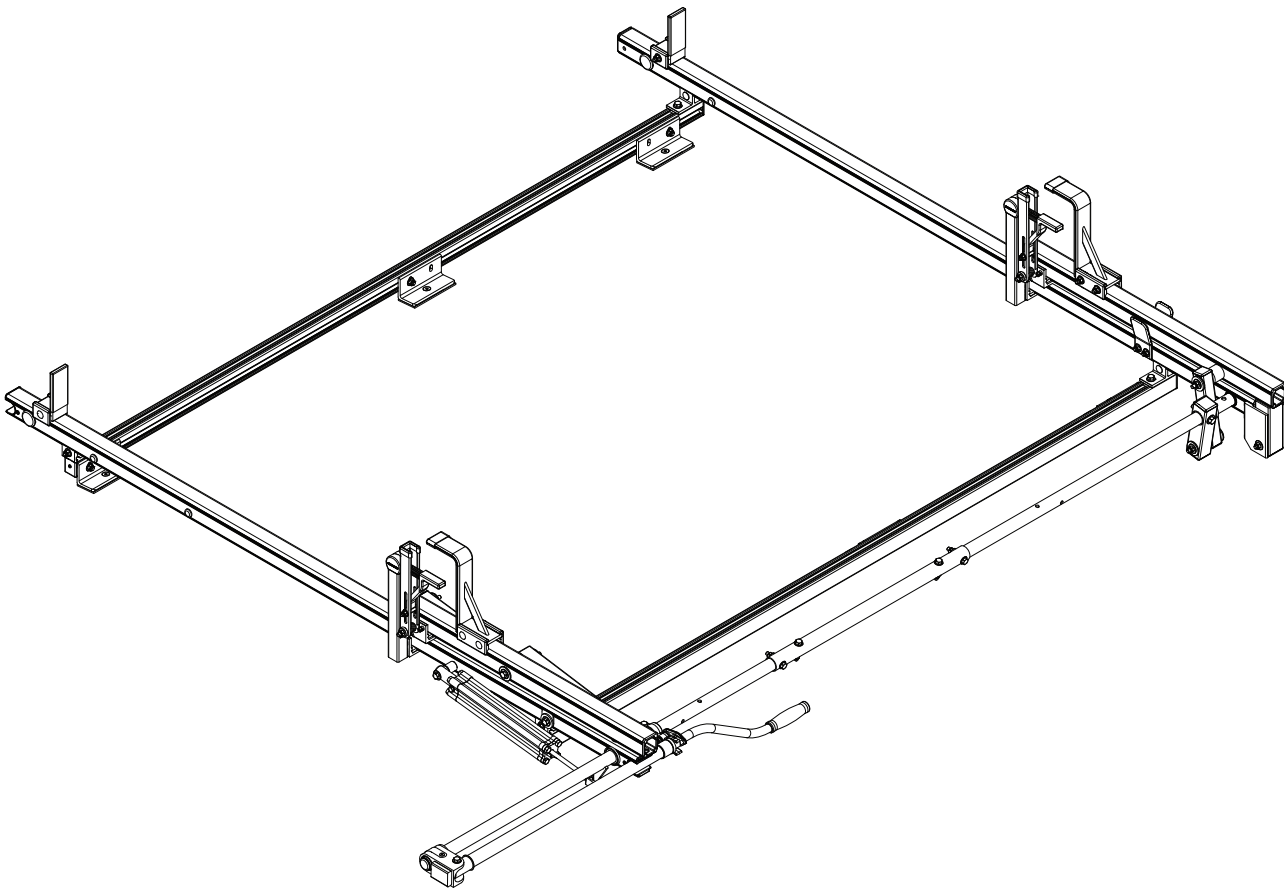


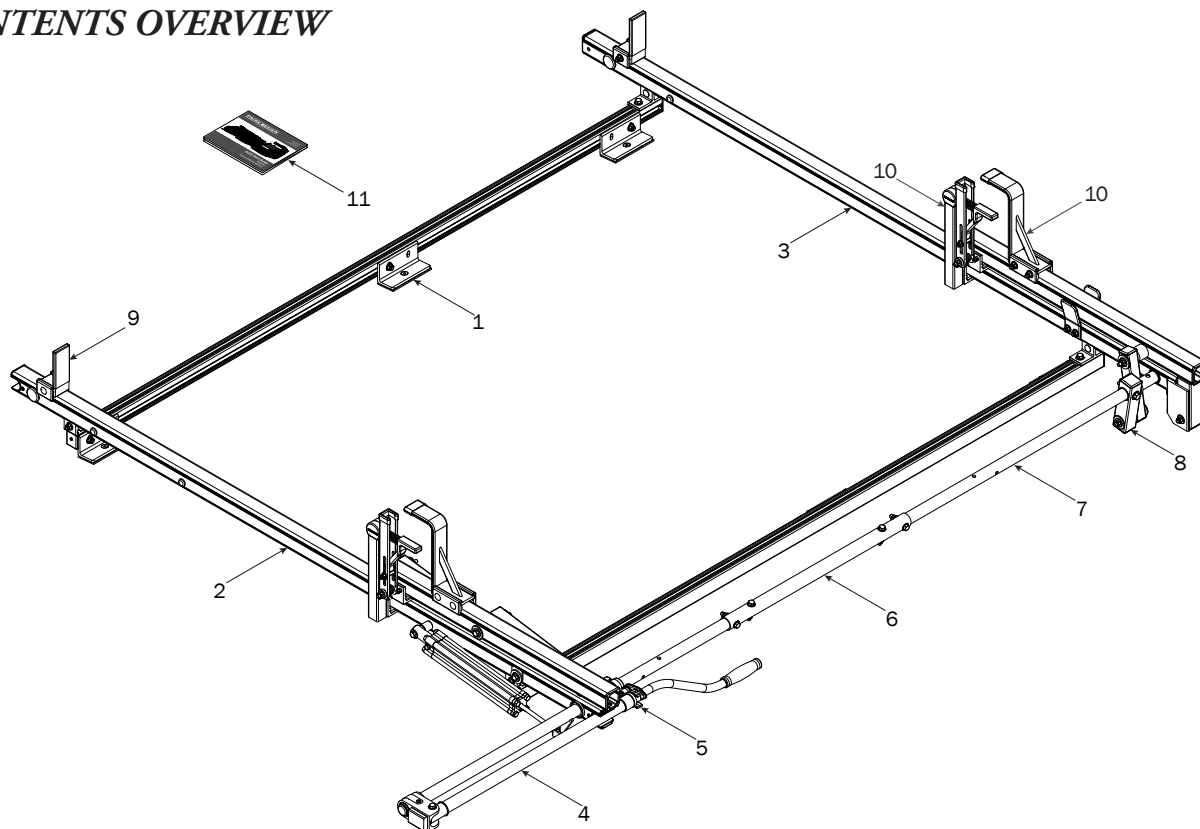
PRIME DESIGN™

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VBI

CONTENTS OVERVIEW



1—FBM-0101..... (Qty 1)
Channels w/ Hardware

76" Channels, Pre-assembled (2X)



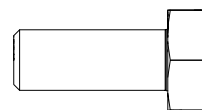
Mounting Bracket (6X)



Foam Pad (6X)



Channel Bracket (4X)



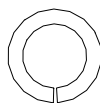
M8 x 20MM (4X)



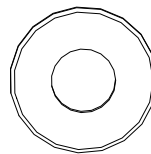
M8 X 25MM (6X)



M8 Lock Nut (6X)



$\frac{5}{16}$ " Lock Washer (4X)

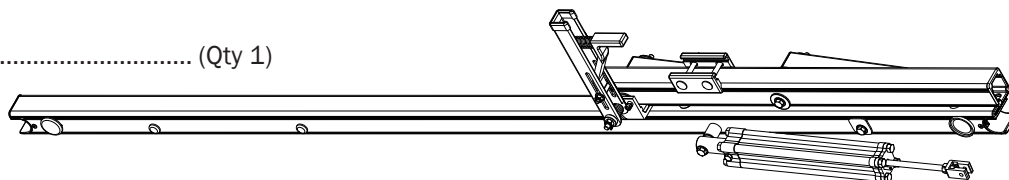


$\frac{5}{16}$ " Flat Washer (10X)

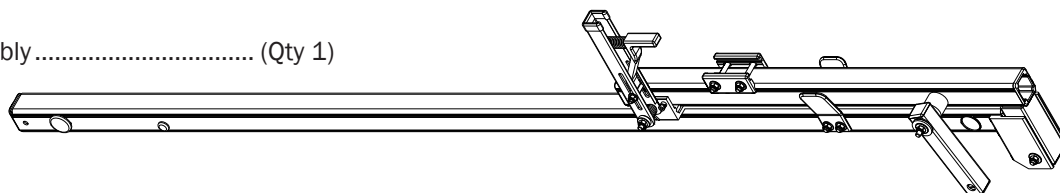


Anti-Seize (1X)

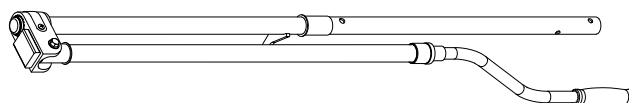
2—Rear Crossbar Assembly..... (Qty 1)



3—Front Crossbar Assembly (Qty 1)



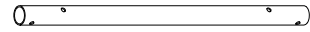
4—Rear Drive Shaft..... (Qty 1)
Right Hand, B4 Version, 46.00"



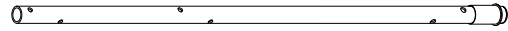
5—Handle Latch Assembly (Qty 1)



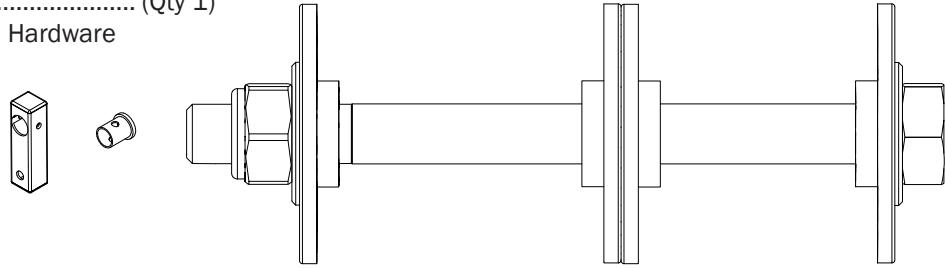
6—Connecting Bar (Qty 1)
24.00"



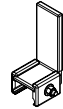
7—Front Drive Shaft (Qty 1)
38.75"



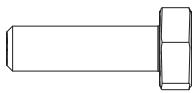
8—Drive Arm (Qty 1)
Incline Version with Bushing and Hardware



9—Ladder Stop Assembly (Qty 2)
1.75"



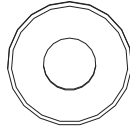
10—L & Z Post Kit (Qty 1)
Adj. Z Post, 7.25", L Post, w/HKT-0160



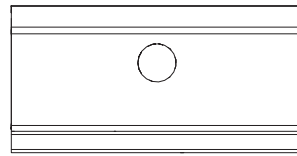
M6 x 20MM (2X)



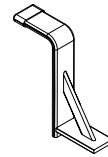
1/4 Lock Washer (2X)



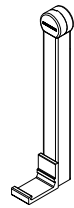
1/4 Flat Washer (2X)



L Post Bracket Clamp (2X)



Z Post (2X)



L Post (2X)

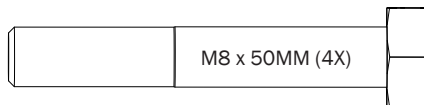
11—USQSG-Ergorack (Qty 1)
Quick Start Guide, Rotation



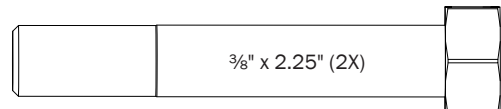
12—HKT-8163 (Not called out in Overview) (Qty 1)



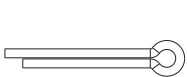
Clevis Pin (1X)



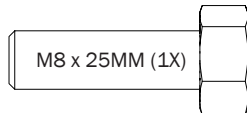
M8 x 50MM (4X)



3/8" x 2.25" (2X)



Cotter Pin (1X)



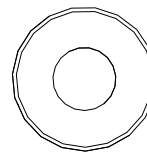
M8 x 25MM (1X)



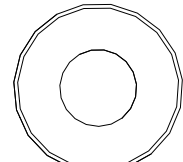
M8 Lock Nut (5X)



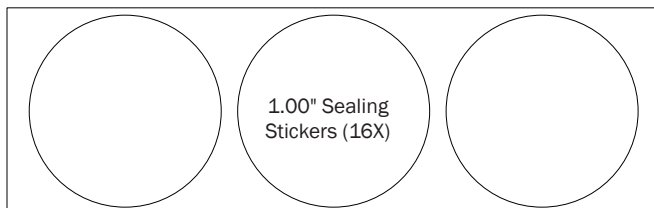
3/8" Lock Nut (2X)



5/16" Flat Washer (10X)



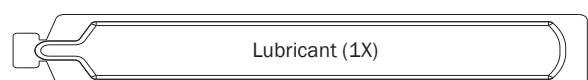
3/8" Flat Washer (4X)



1.00" Sealing
Stickers (16X)



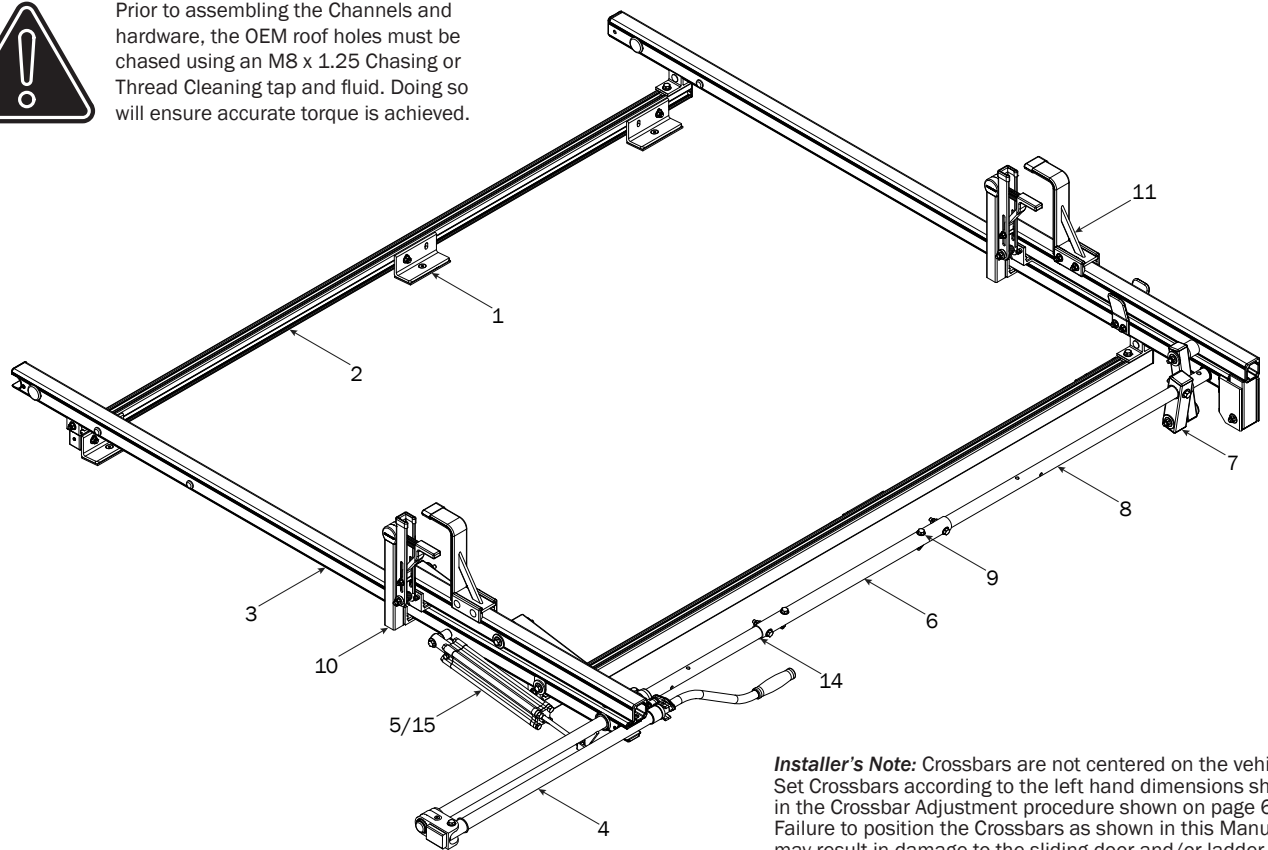
Anti-Seize (1X)



Lubricant (1X)

RIGHT SIDE ASSEMBLY SEQUENCE

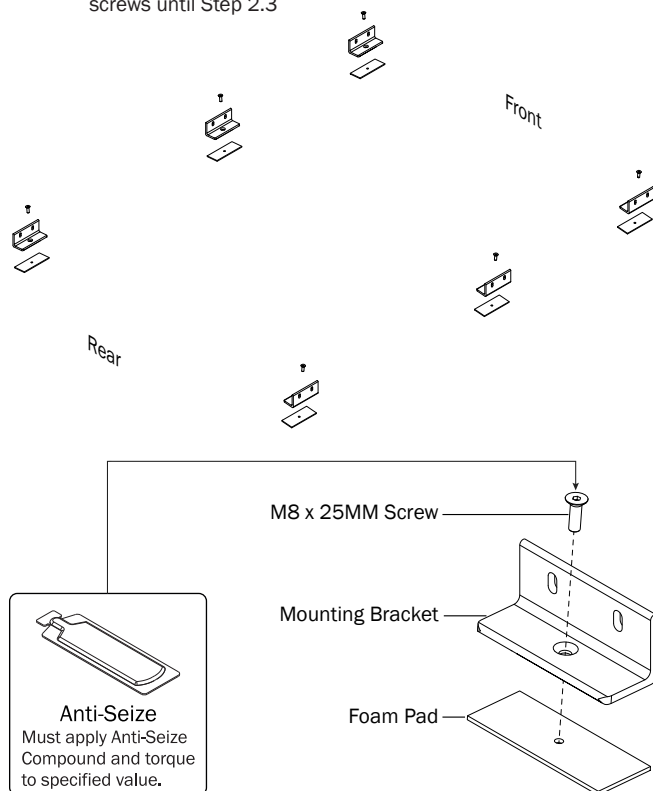
Prior to assembling the Channels and hardware, the OEM roof holes must be chased using an M8 x 1.25 Chasing or Thread Cleaning tap and fluid. Doing so will ensure accurate torque is achieved.



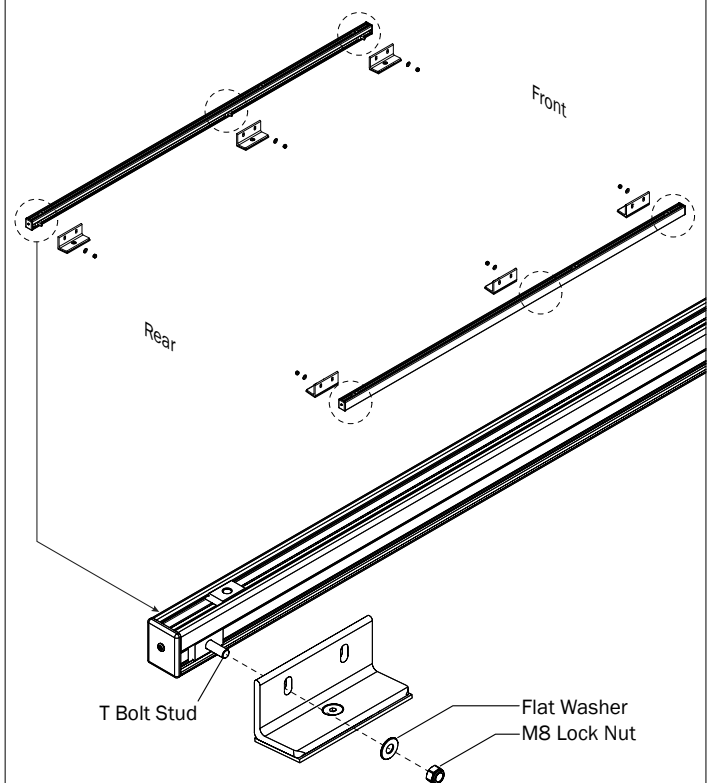
Installer's Note: Crossbars are not centered on the vehicle. Set Crossbars according to the left hand dimensions shown in the Crossbar Adjustment procedure shown on page 6. Failure to position the Crossbars as shown in this Manual may result in damage to the sliding door and/or ladder rack.

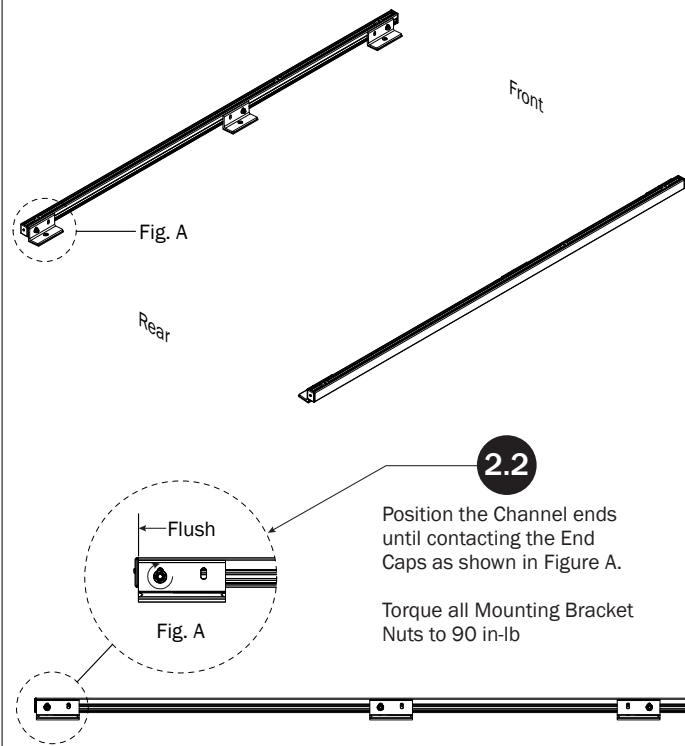
MOUNTING BRACKETS**1**

Apply Anti-Seize to all M8 x 25MM Flat Head Screws and install the Channel Mounting Brackets with Foam Pads onto the vehicle's roof mounting holes. Do not tighten screws until Step 2.3

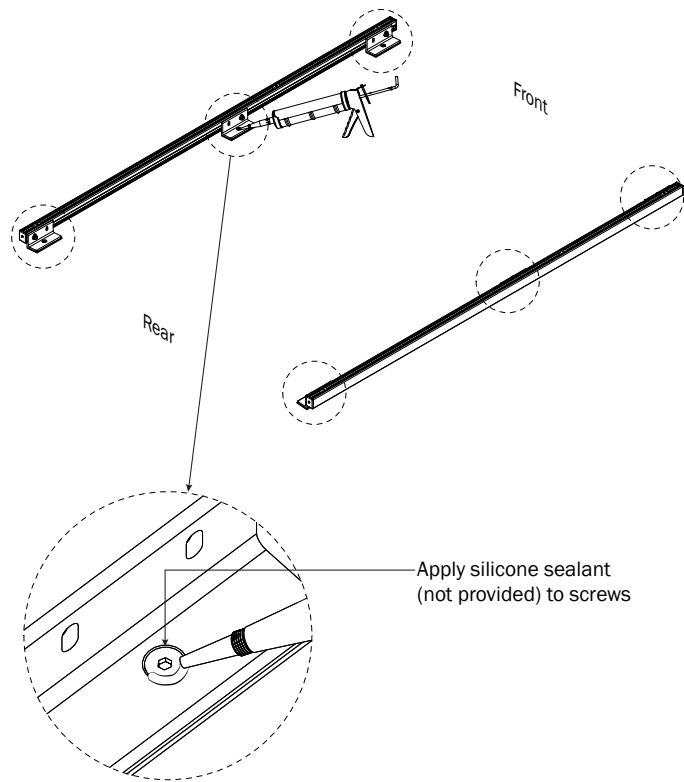
**CHANNELS****2.1**

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

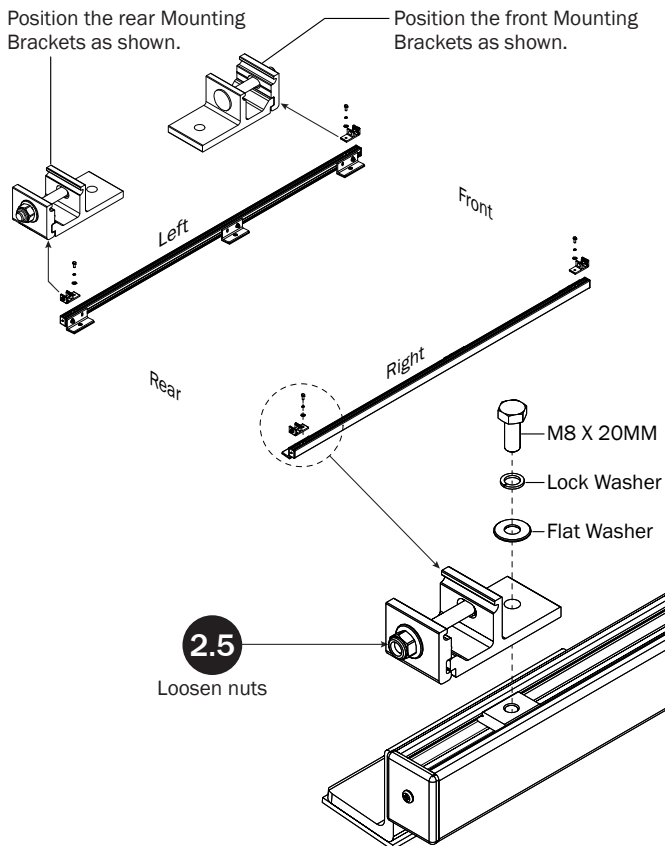




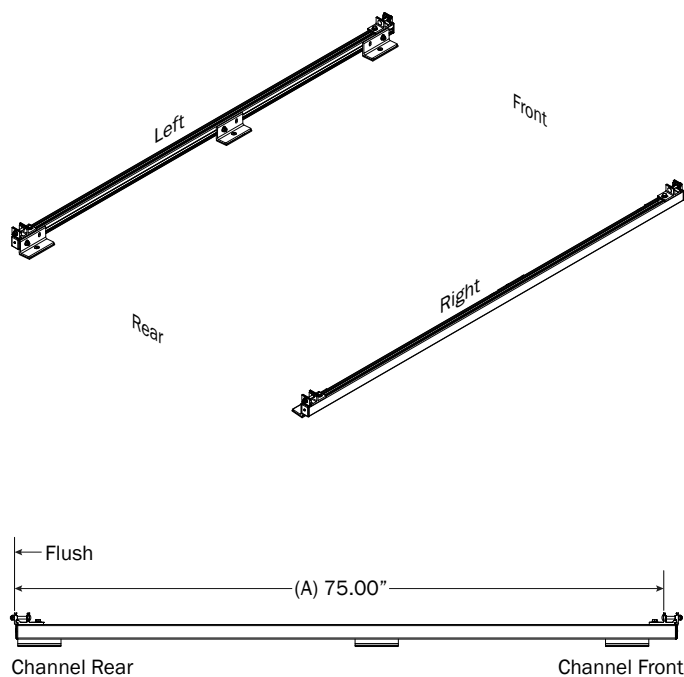
- 2.3** Torque all M8 x 25MM Flat Head Screws to 150 in-lbs. Apply Silicone Sealant to screw heads to seal against water intrusion.

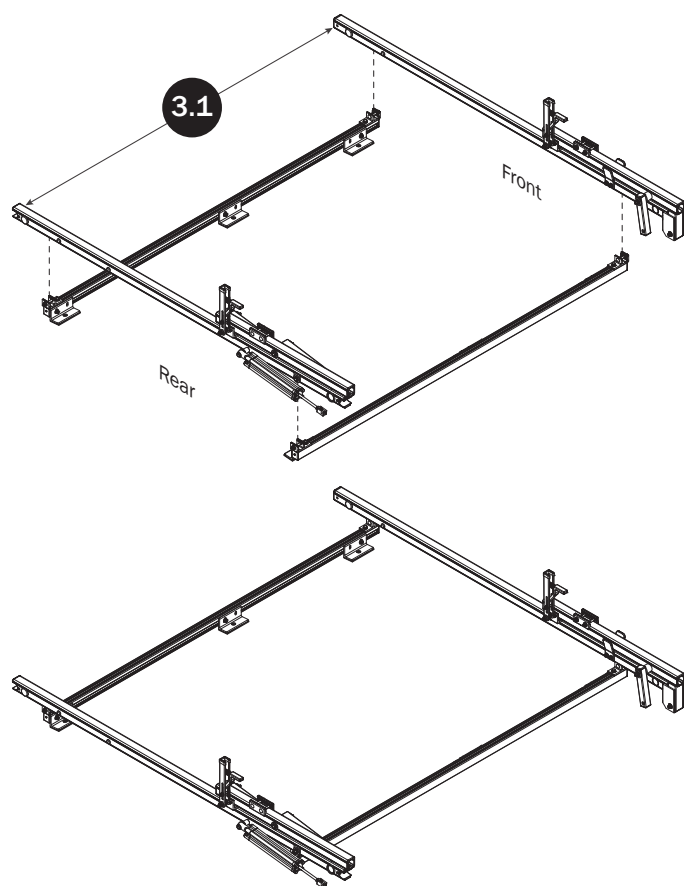
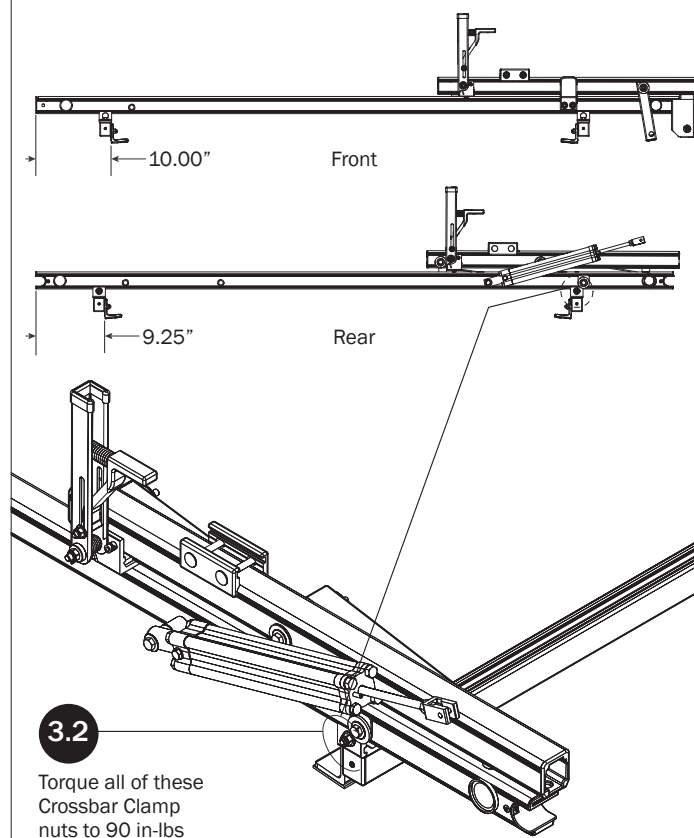


- 2.4** Attach Mounting Brackets to the Aluminum Strip Nuts located in the Channels

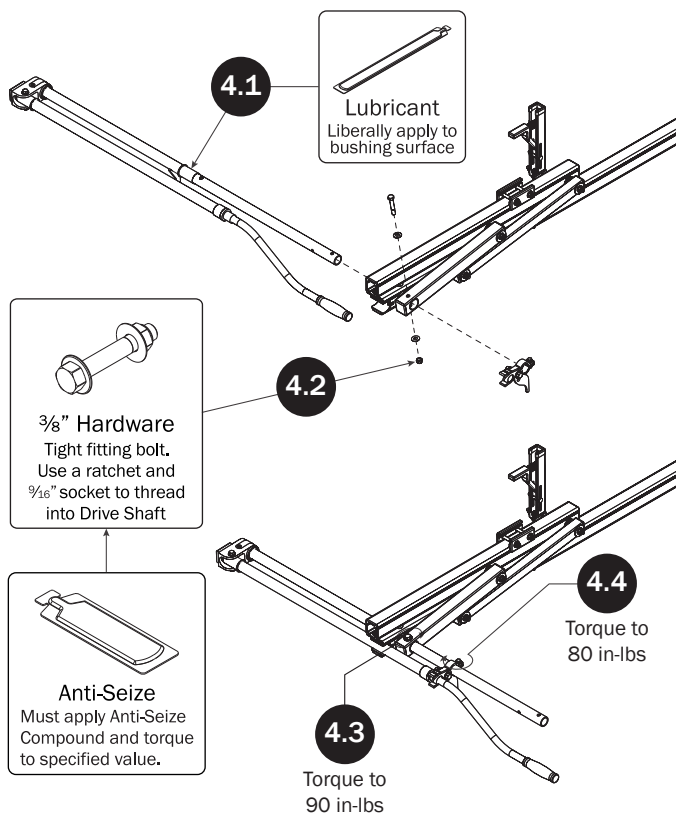
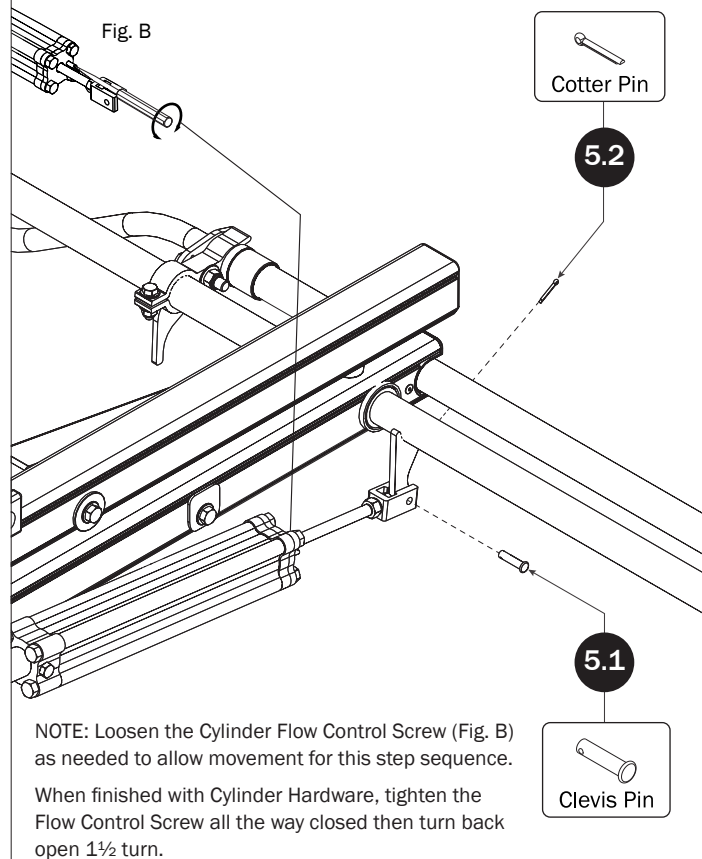


- 2.6** Position Mounting Brackets to designated dimension shown below, then torque the M8 X 20MM bolt to 90 in-lbs. Proceed to Step 3.1.

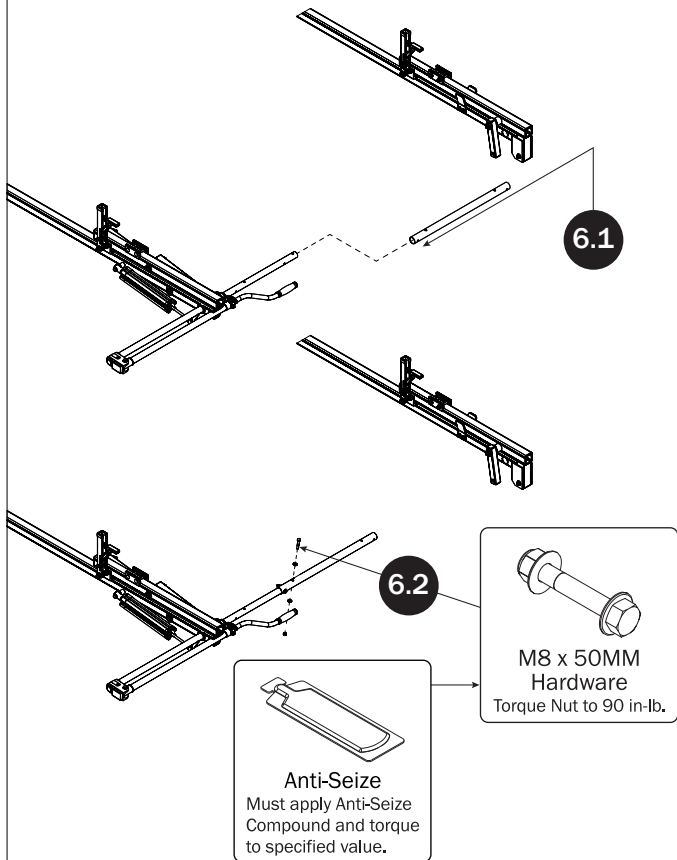


CROSSBARS**CROSSBAR ADJUSTMENT****REAR DRIVE SHAFT**

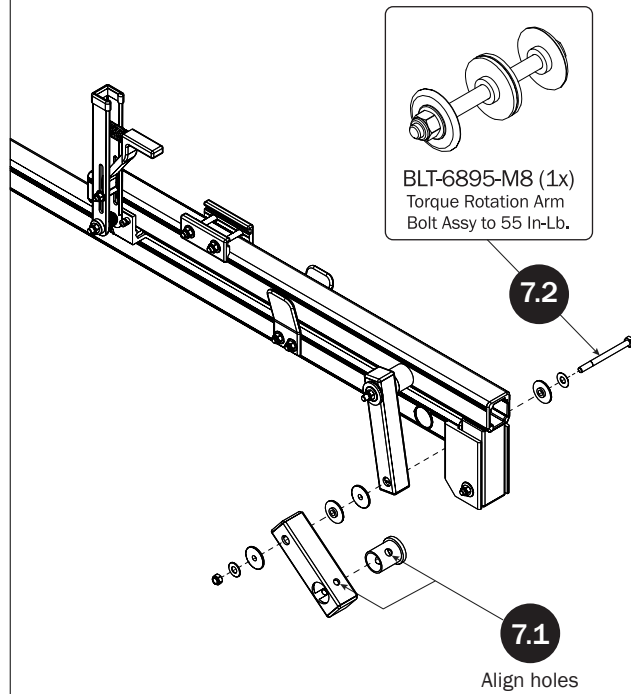
NOTE: For instructional clarity, the FBM Mounting System will not be shown for the remainder of this Assembly Manual.

**CYLINDER HARDWARE**

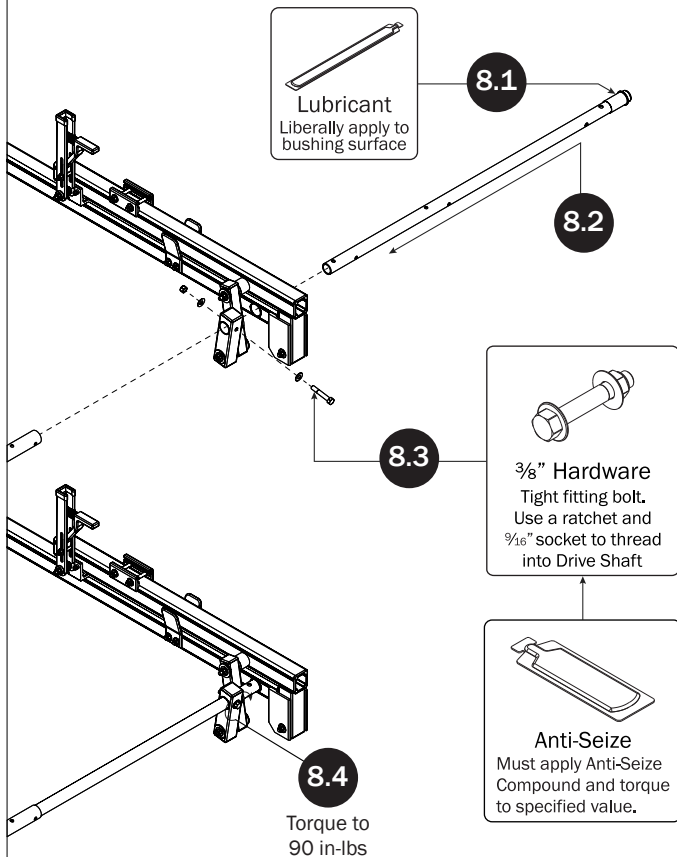
CONNECTING BAR



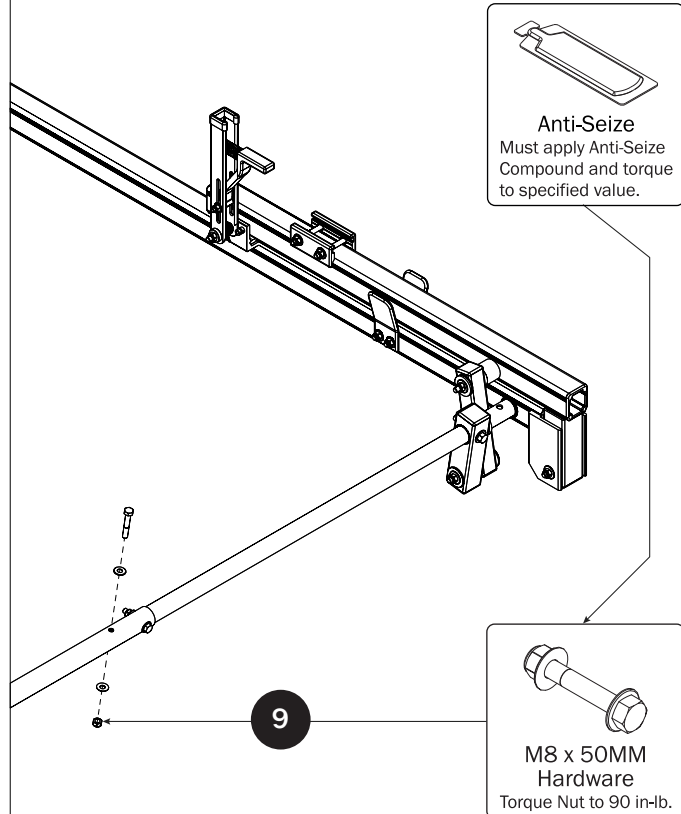
FRONT DRIVE ARM



FRONT DRIVE SHAFT



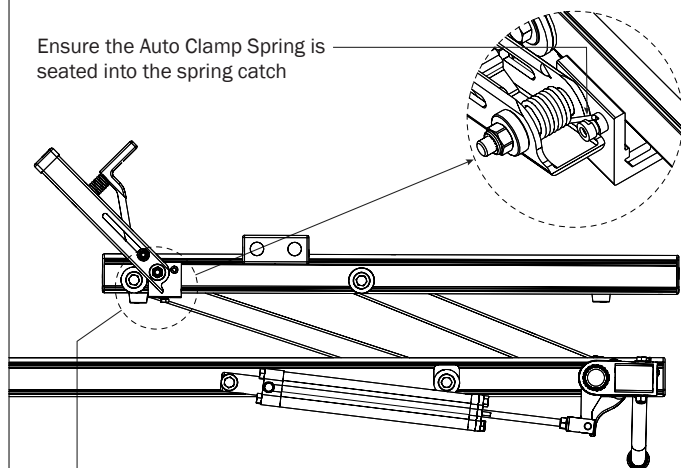
CONNECTING BAR FASTENERS



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.

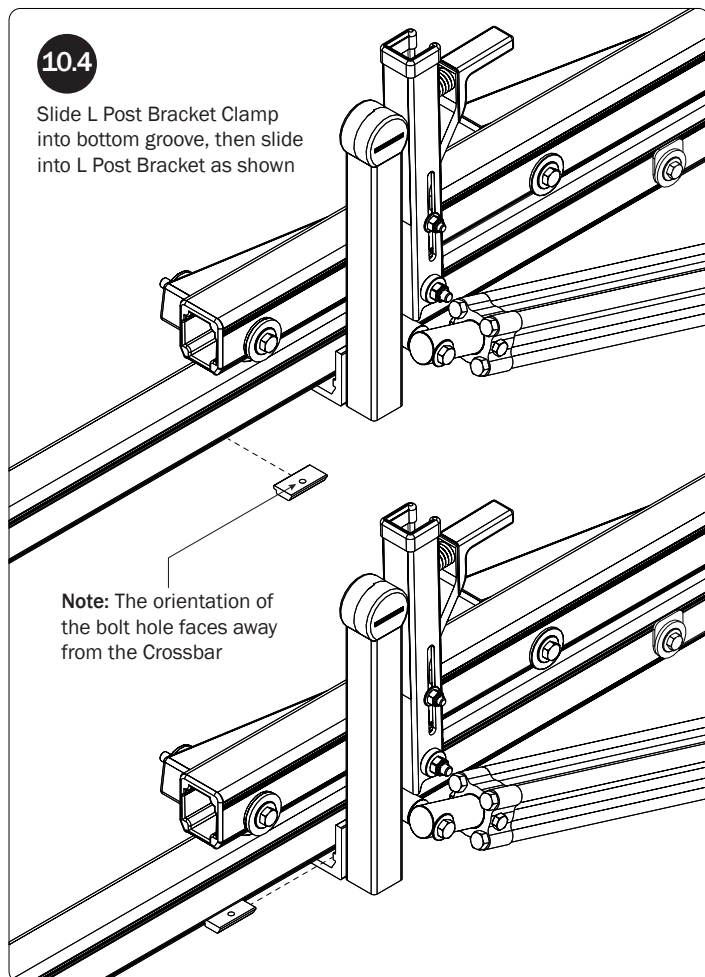
Ensure the Auto Clamp Spring is seated into the spring catch



- 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.

10.4

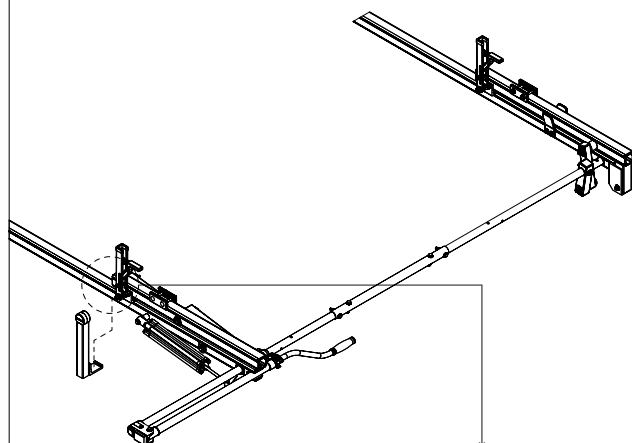
Slide L Post Bracket Clamp into bottom groove, then slide into L Post Bracket as shown



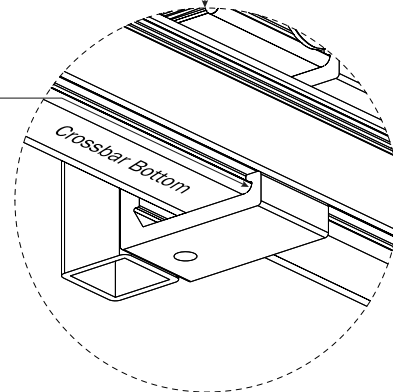
Note: The orientation of the bolt hole faces away from the Crossbar

10.2

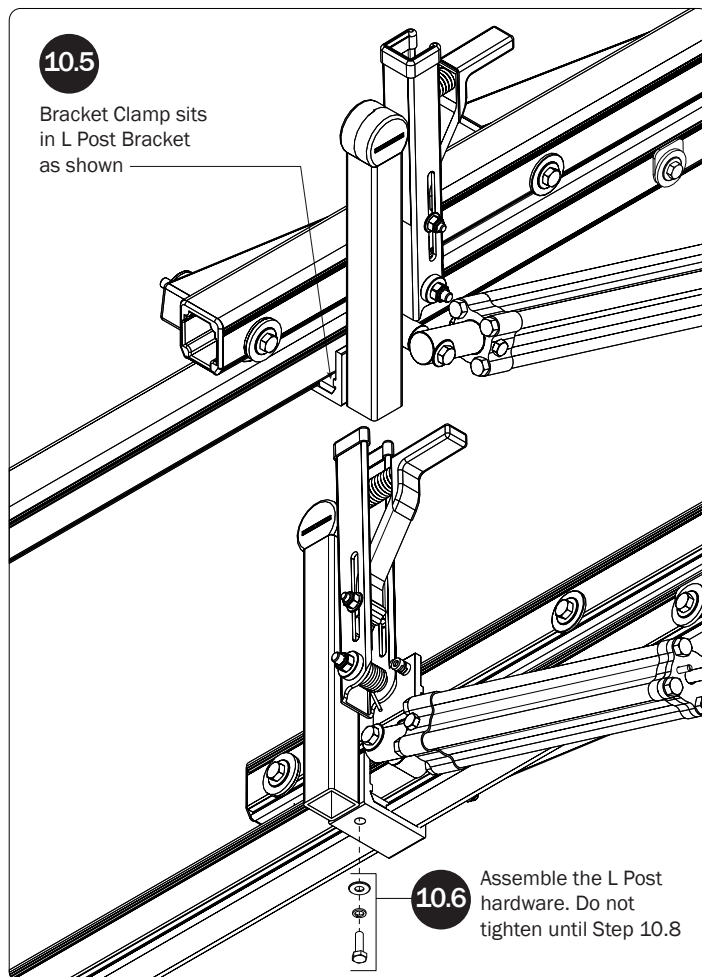
Prepare the L Post by removing the hex head bolt, lock washer, flat washer, and Bracket Clamp. Retain for installation Steps 10.4—10.8.

**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

**10.5**

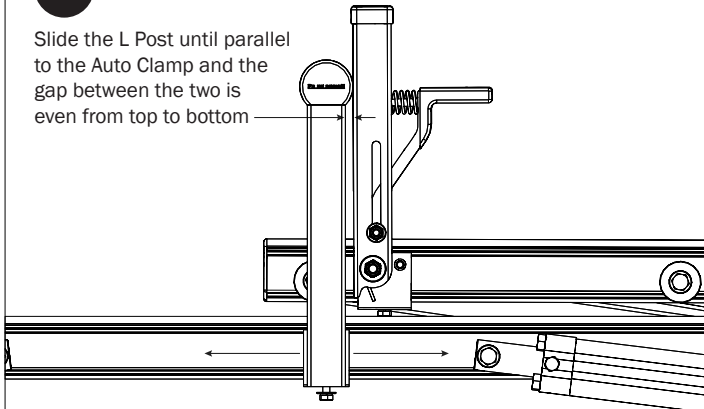
Bracket Clamp sits in L Post Bracket as shown

**10.6**

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

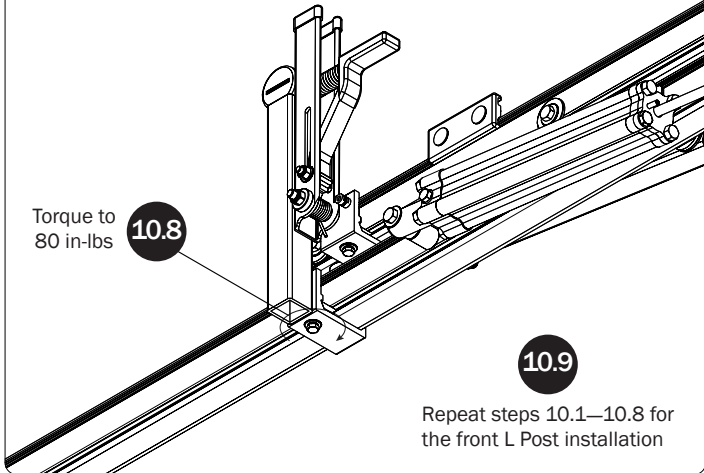
10.7

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

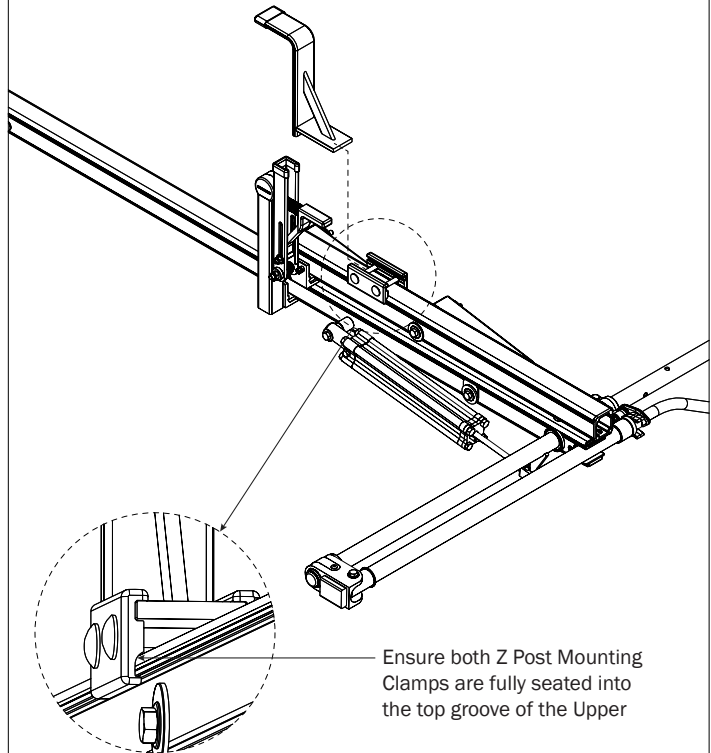
Repeat steps 10.1—10.8 for the front L Post installation

Z POSTS

SEE QUICK START GUIDE FOR ADJUSTMENTS

11.1

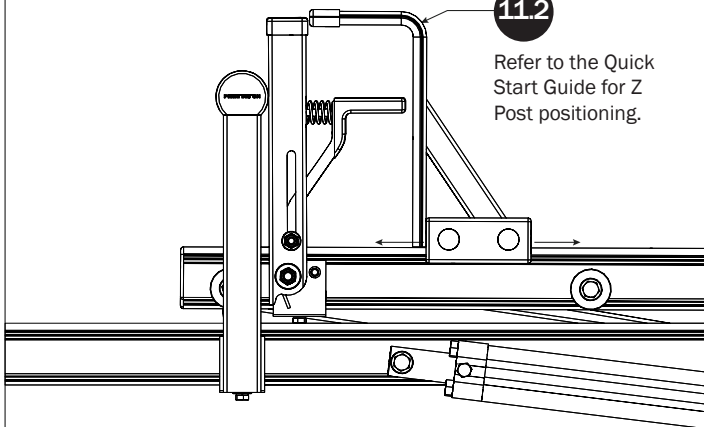
Slide the Z Post into the Mounting Clamp Assembly



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

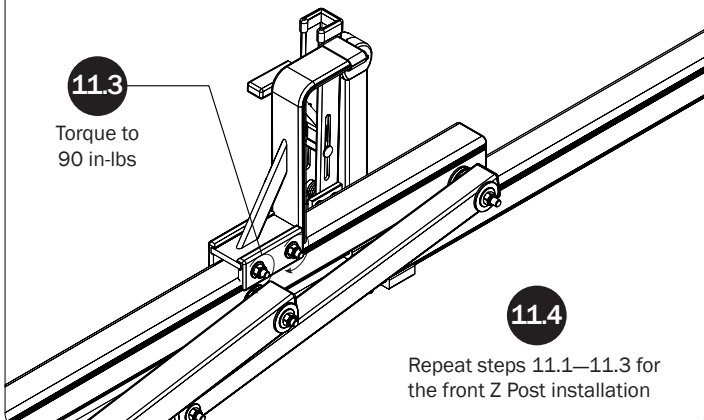
11.2

Refer to the Quick Start Guide for Z Post positioning.



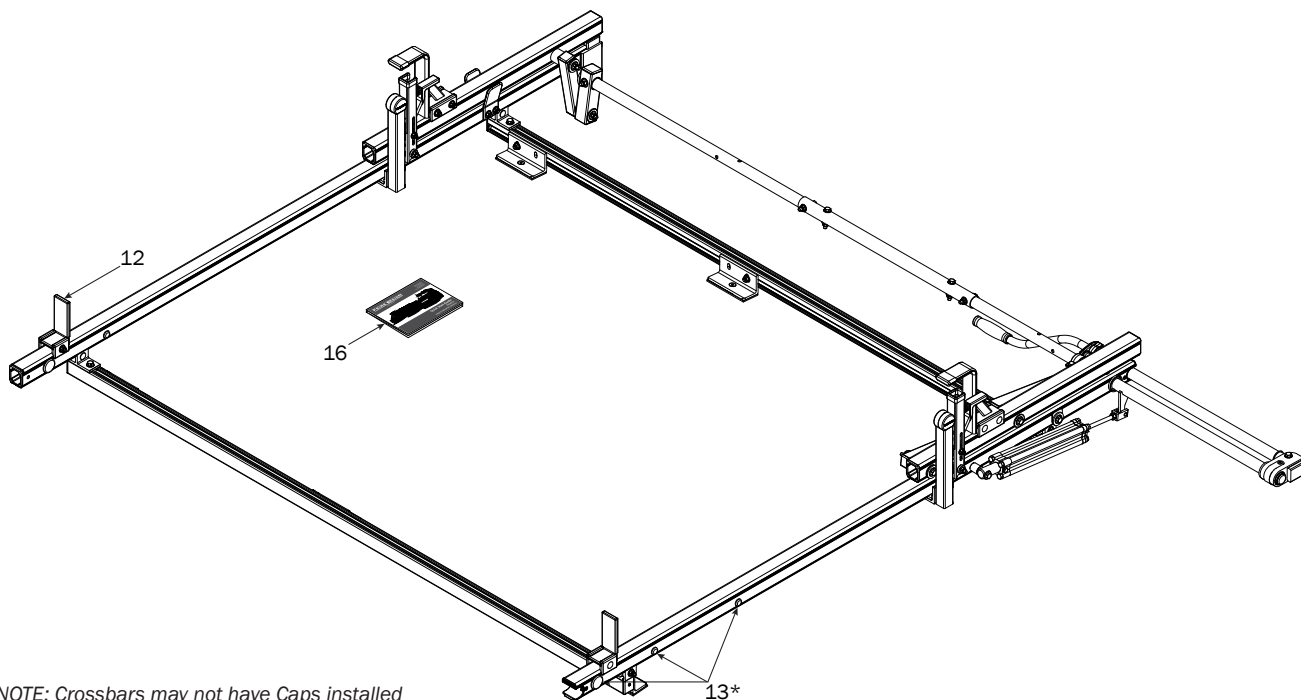
11.3

Torque to 90 in-lbs



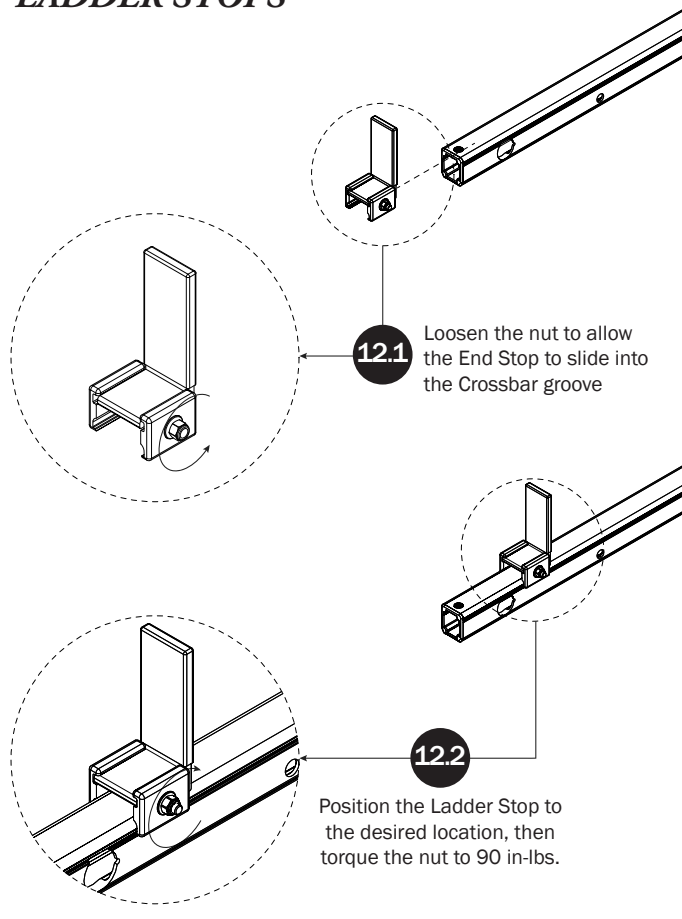
11.4

Repeat steps 11.1—11.3 for the front Z Post installation



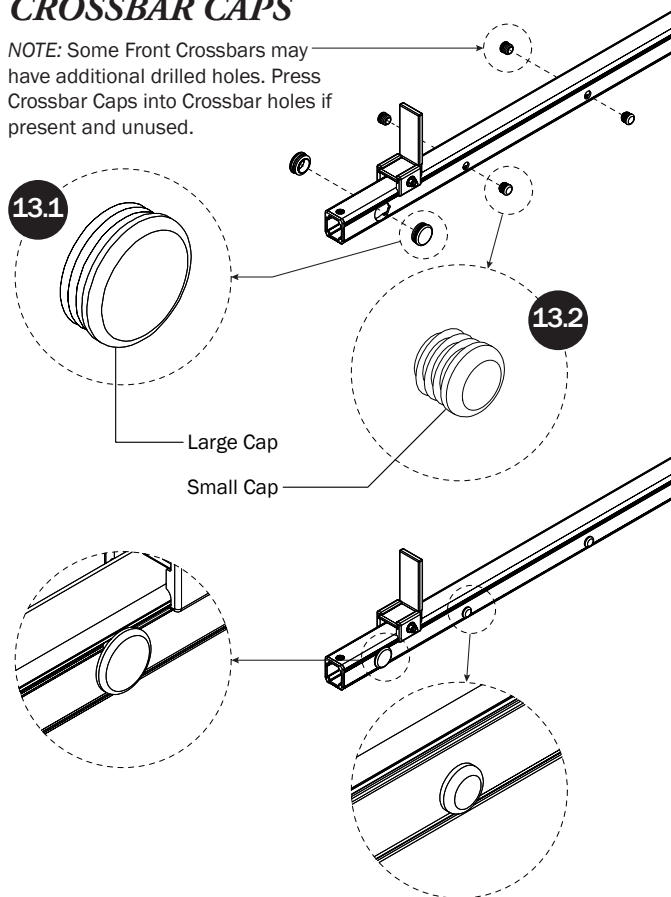
* NOTE: Crossbars may not have Caps installed from the factory. If factory-installed, proceed to Step 12 and ignore Step 13. If not installed, Caps will be included in the Hardware Kit. Press them into the Crossbars as shown in Step 13.

LADDER STOPS

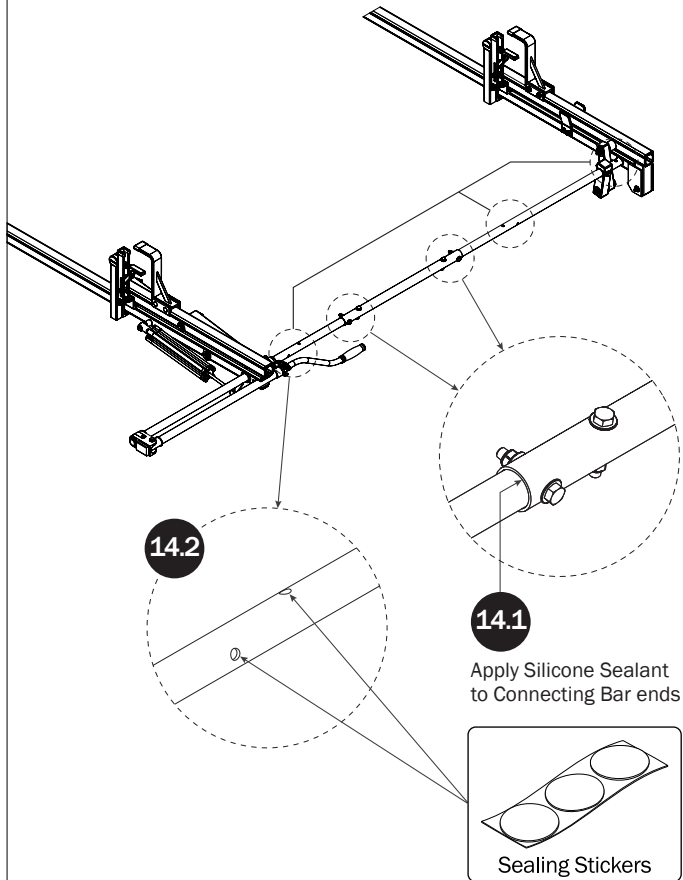


CROSSBAR CAPS

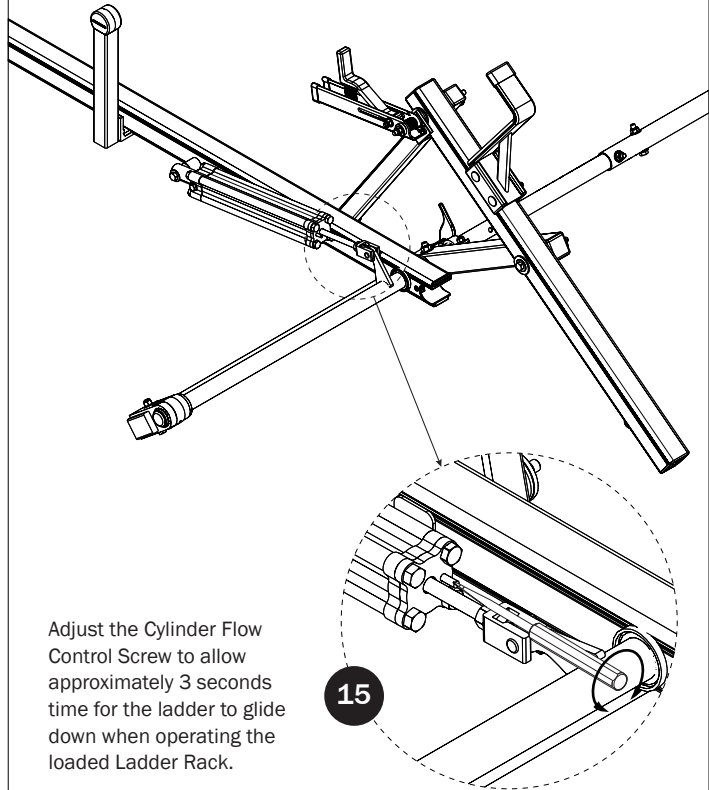
NOTE: Some Front Crossbars may have additional drilled holes. Press Crossbar Caps into Crossbar holes if present and unused.



DRIVE SHAFT SEALING



CYLINDER ADJUSTMENT



QUICK START GUIDE

16

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

