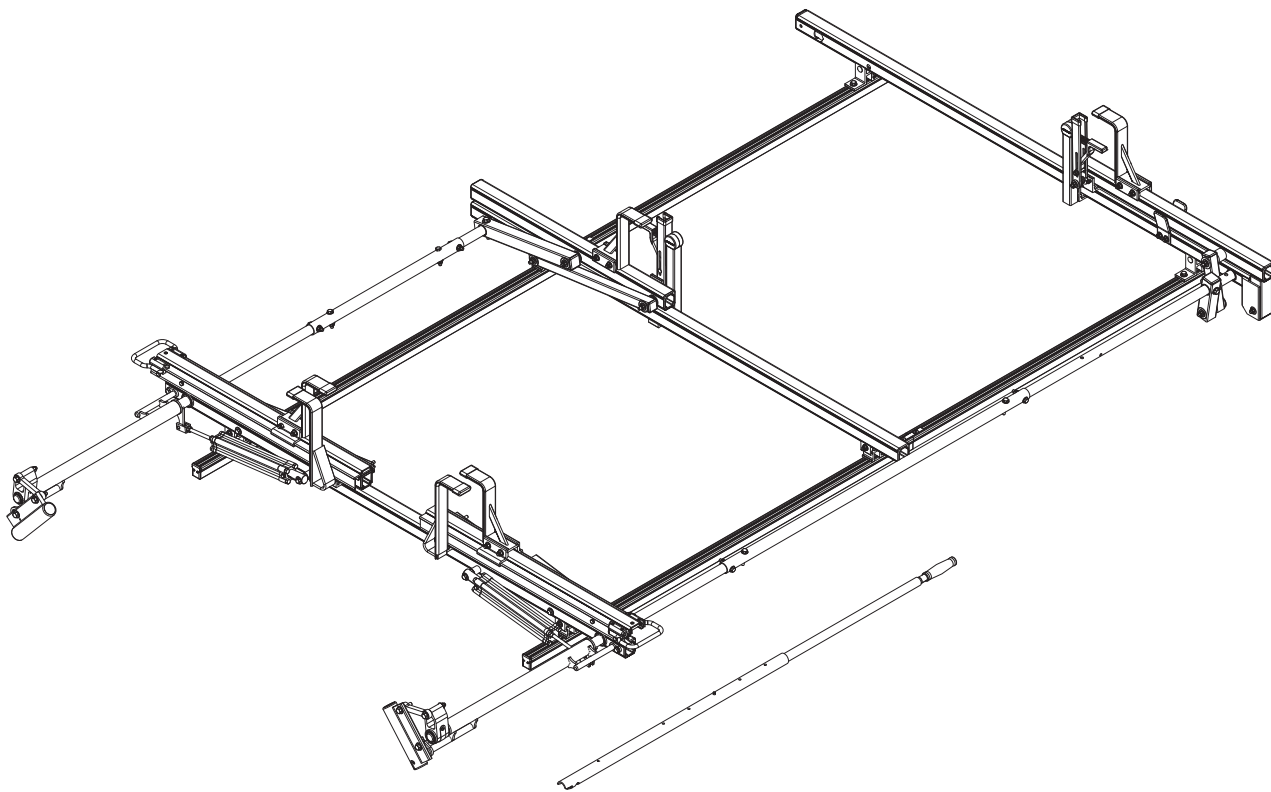


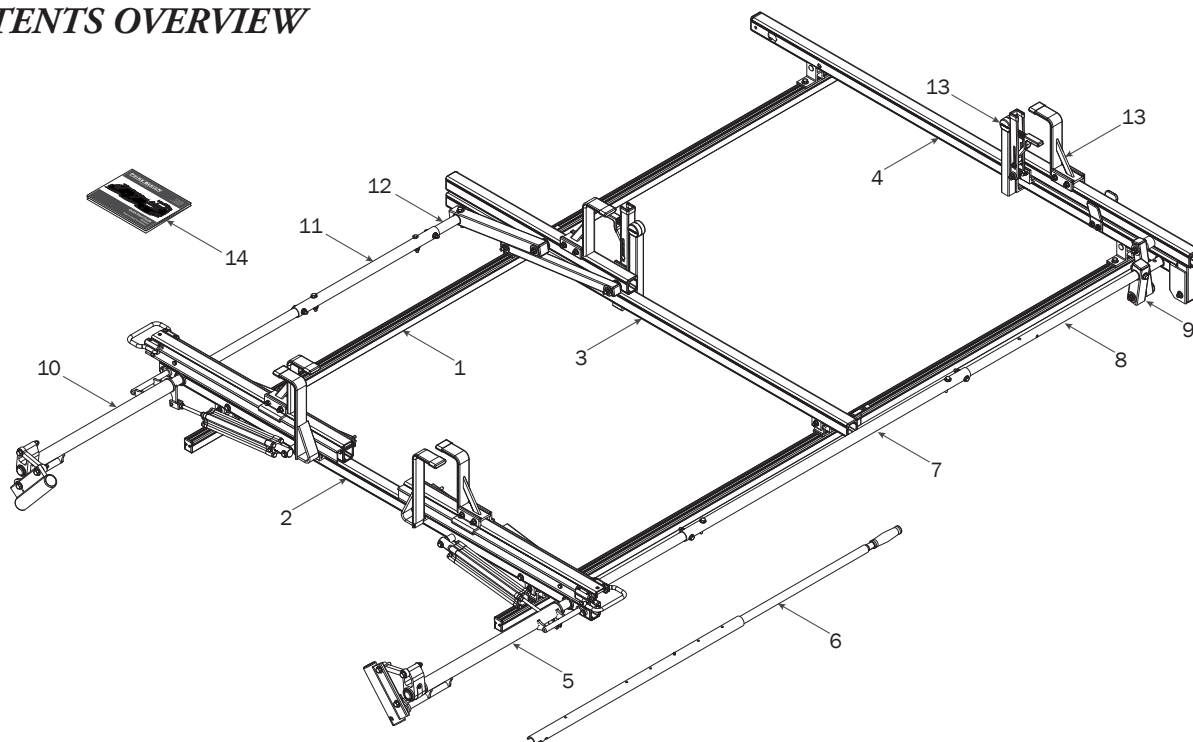
PRIME DESIGN™

A Safe Fleet Brand

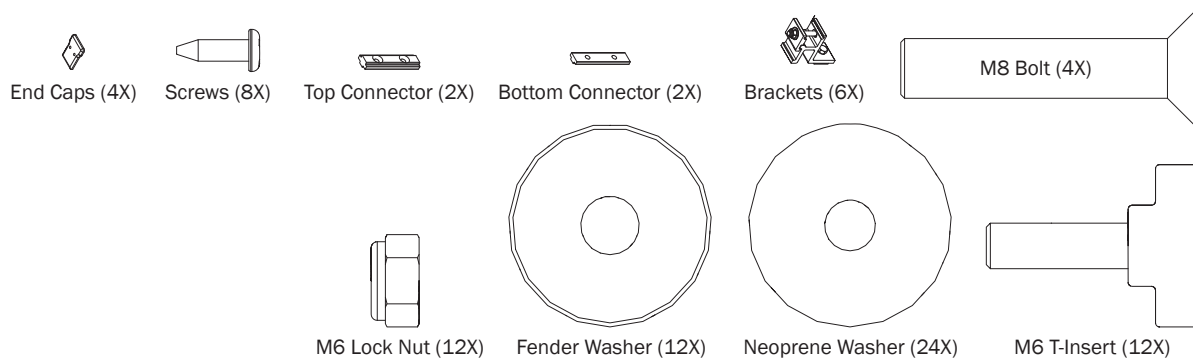


HR13-E

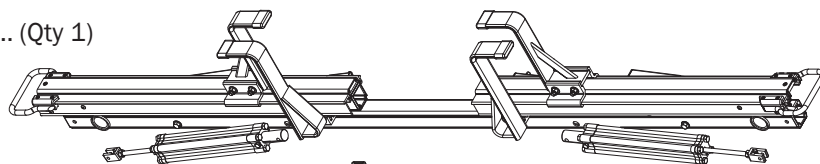
CONTENTS OVERVIEW



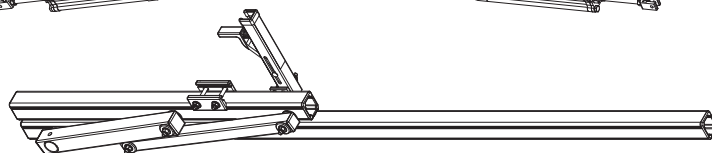
1—FBM3-0057 (Qty 1)
Channels with hardware



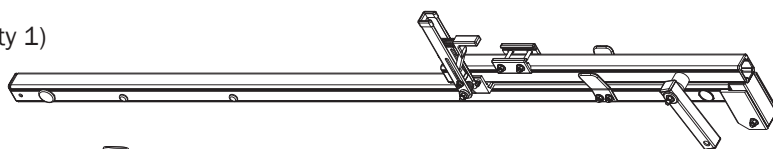
2—Rear Crossbar Assembly (Qty 1)



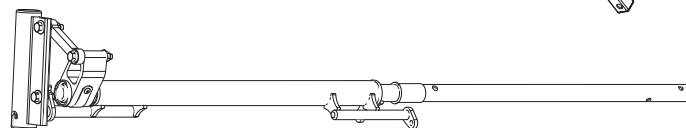
3—Center Crossbar Assembly (Qty 1)



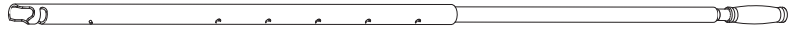
4—Front Crossbar Assembly (Qty 1)



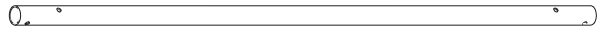
5—Rear Drive Shaft (Qty 1)
Right Hand, A Version, 50.00"



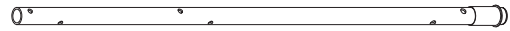
6—HHR Handle Assembly (Qty 1)
35.00"



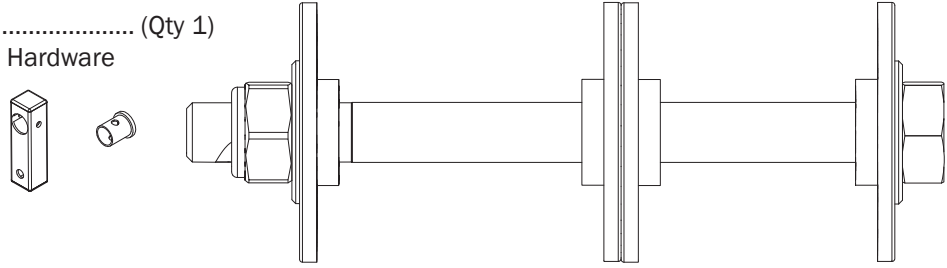
7—Connecting Bar (Qty 1)
4.00'



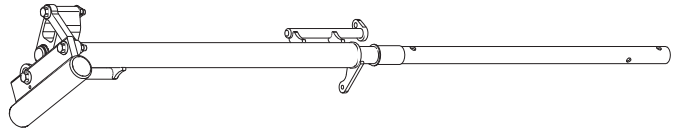
8—Front Drive Shaft (Qty 1)
B Version, 38.75"



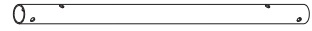
9—Drive Arm (Qty 1)
Incline Version with Bushing and Hardware



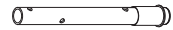
10—Rear Drive Shaft (Qty 1)
Left Hand, A Version, 50.00"



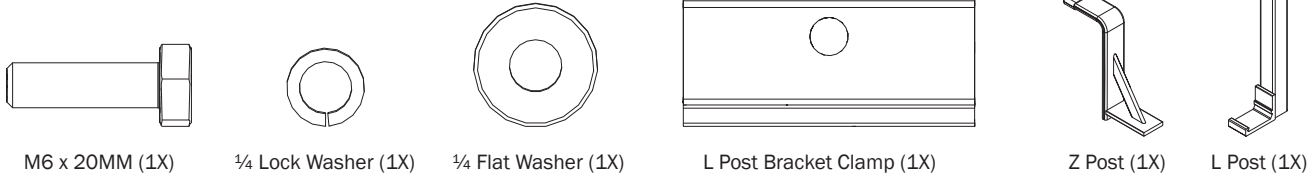
11—Connecting Bar (Qty 1)
24.00"



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



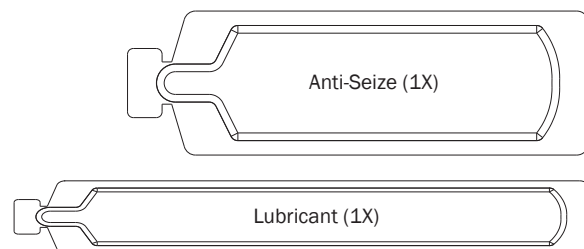
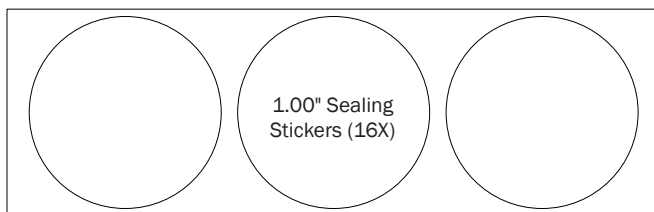
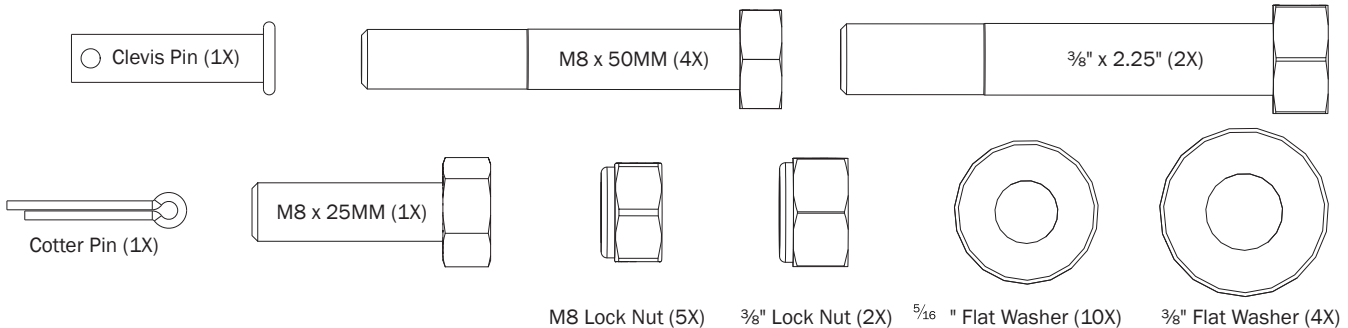
13—L & Z Post Kit..... (Qty 2)
Adj. Z Post, 7.25", L Post, w/HKT-0160



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

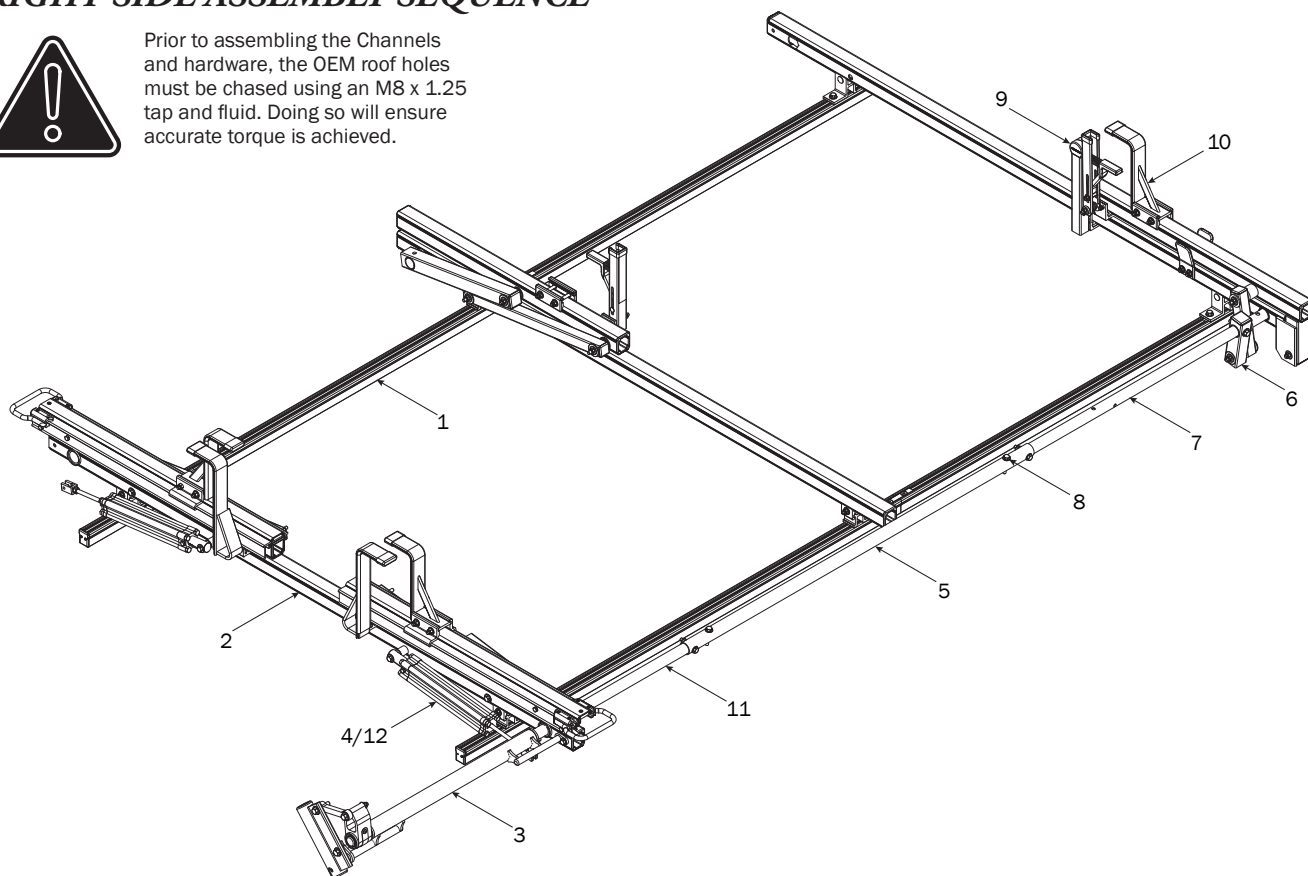


15—HKT-8163 (Not called out in Overview) (Qty 2)

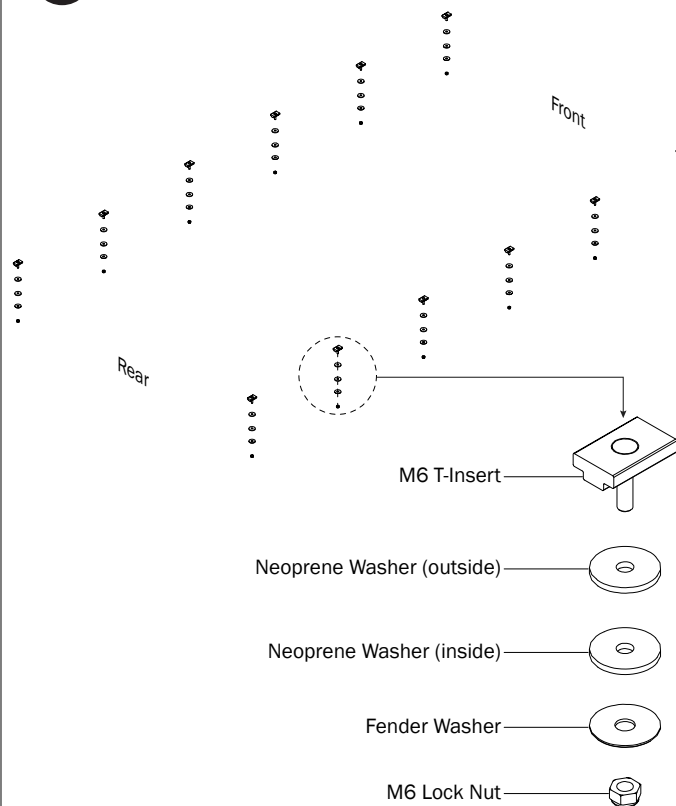
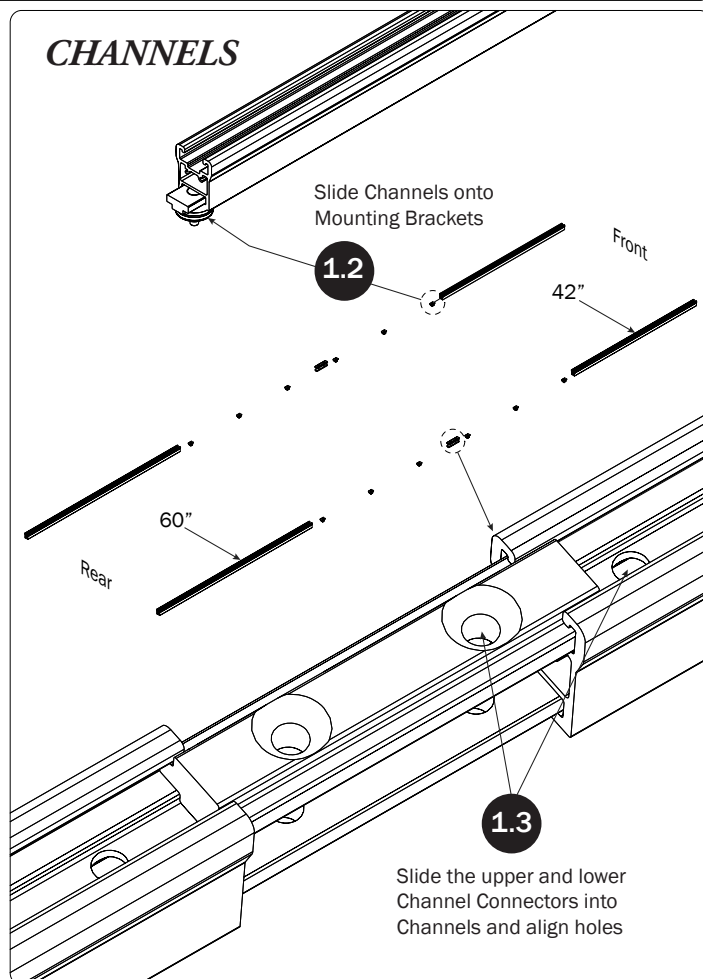


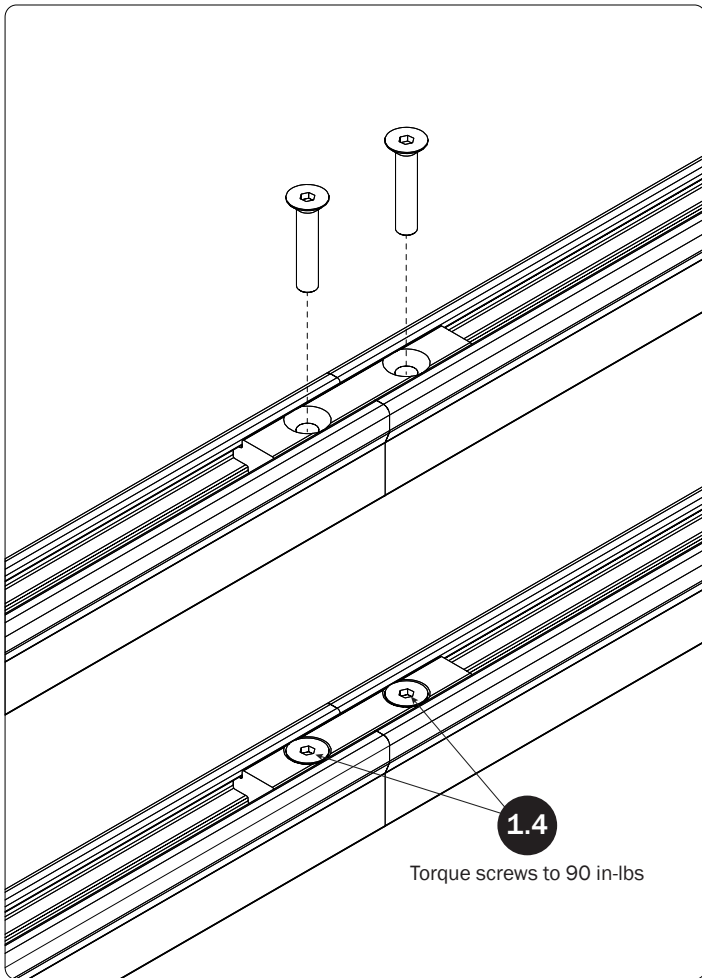
RIGHT SIDE ASSEMBLY SEQUENCE

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

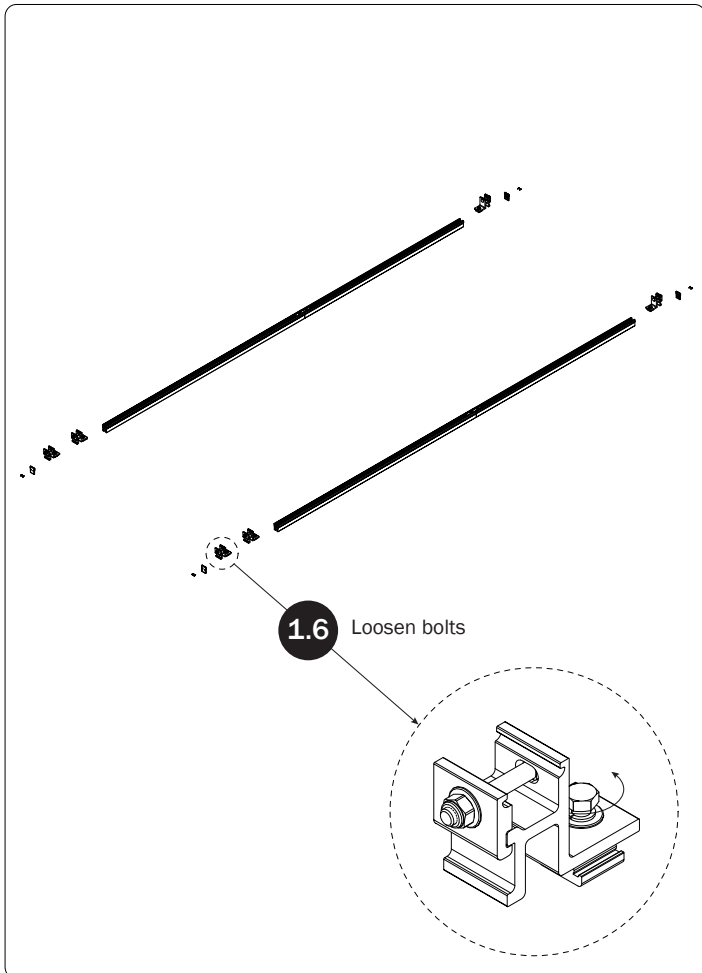
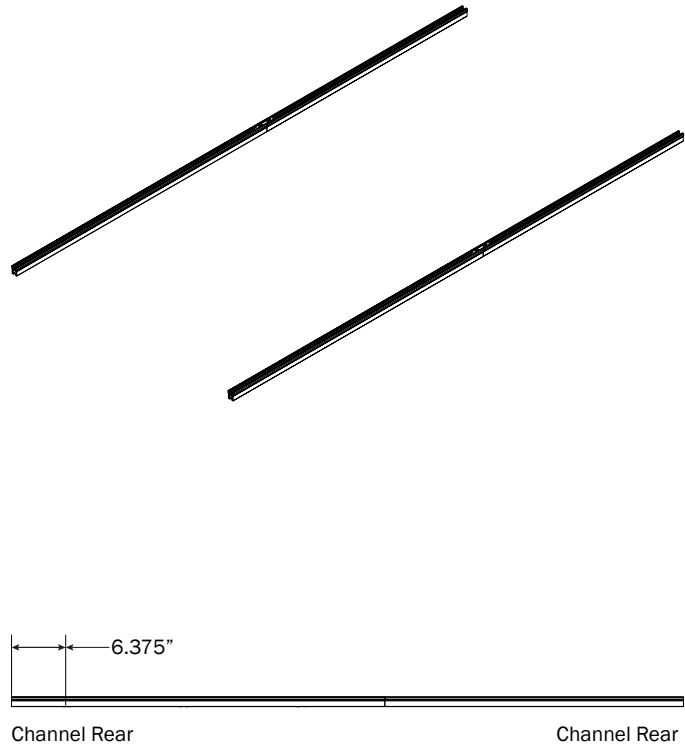
**MOUNTING BRACKETS****1**

Assemble Channel hardware through roof as shown, but do not tighten.

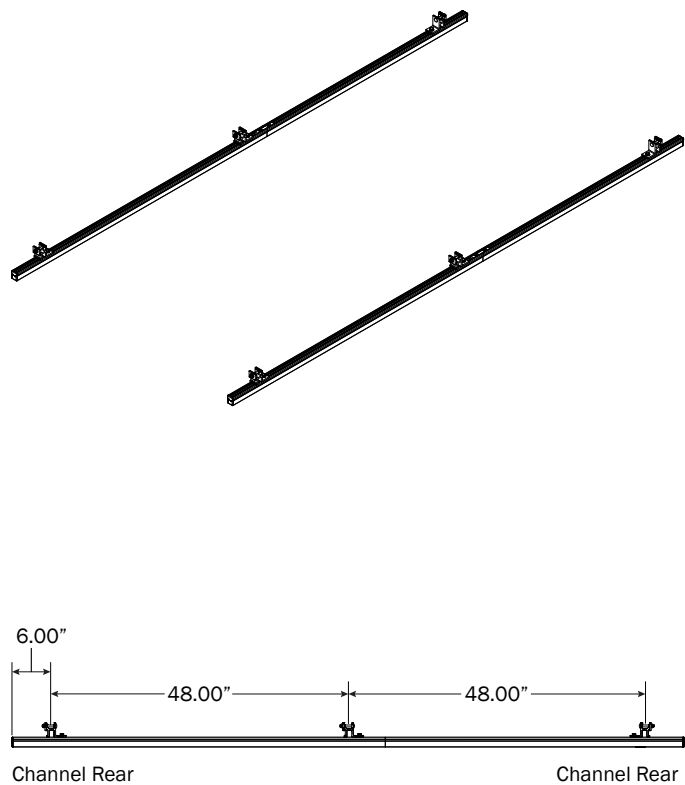
**CHANNELS**

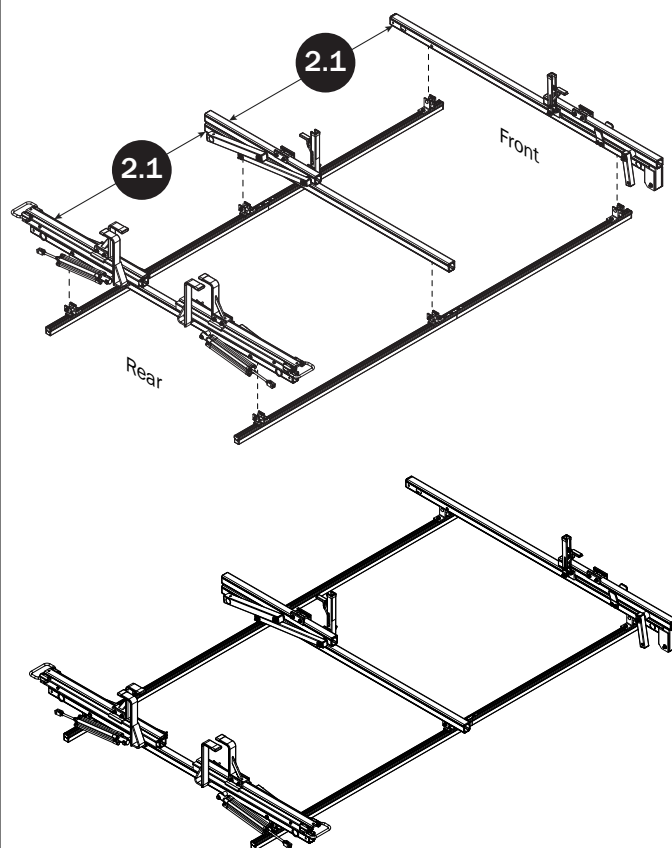
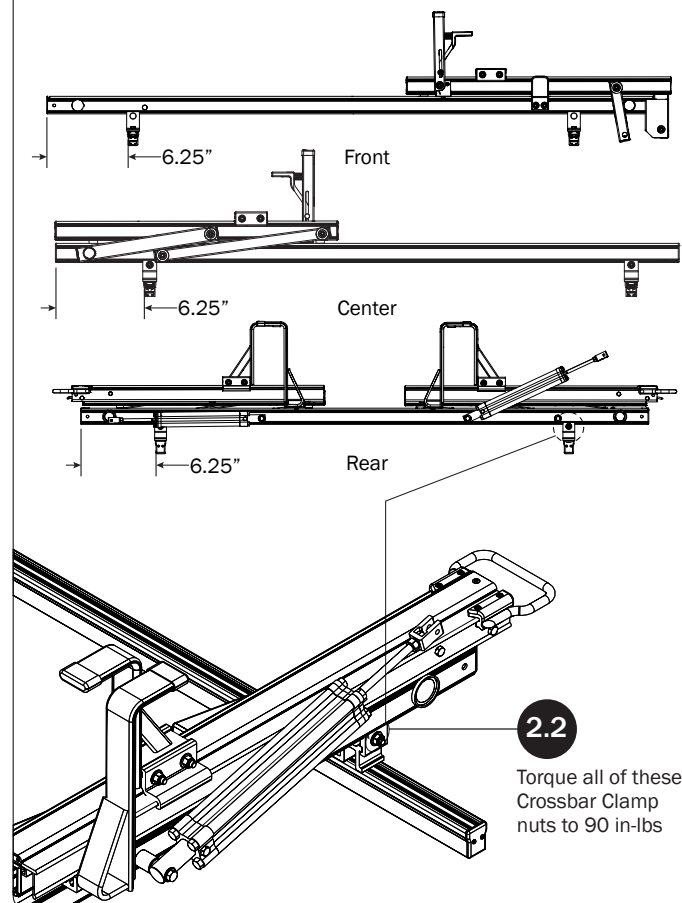


1.5 Set to specified distances shown below, then torque Mounting hardware nuts to 80 in-lbs.

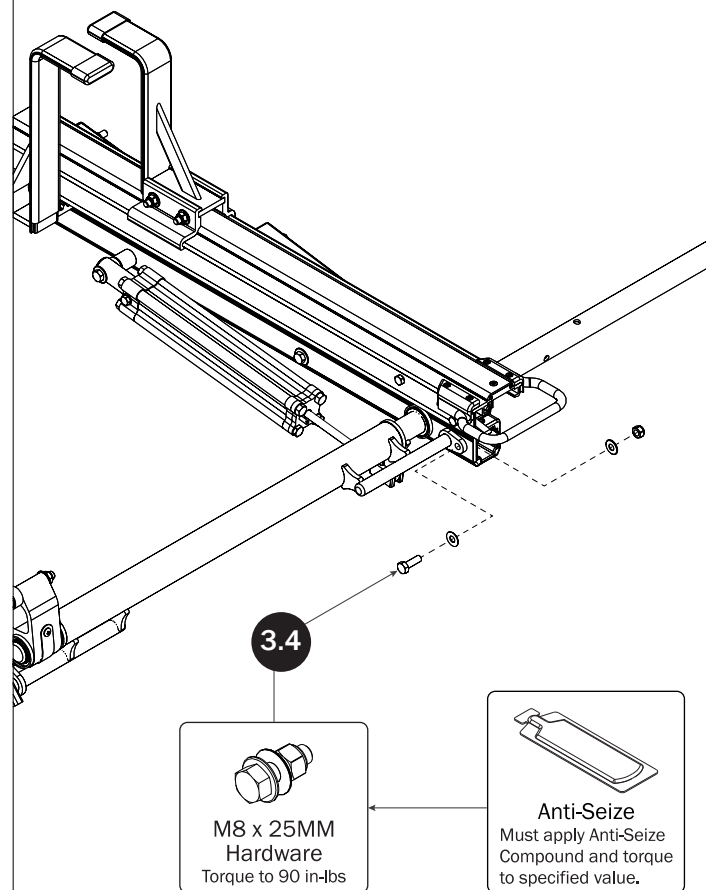
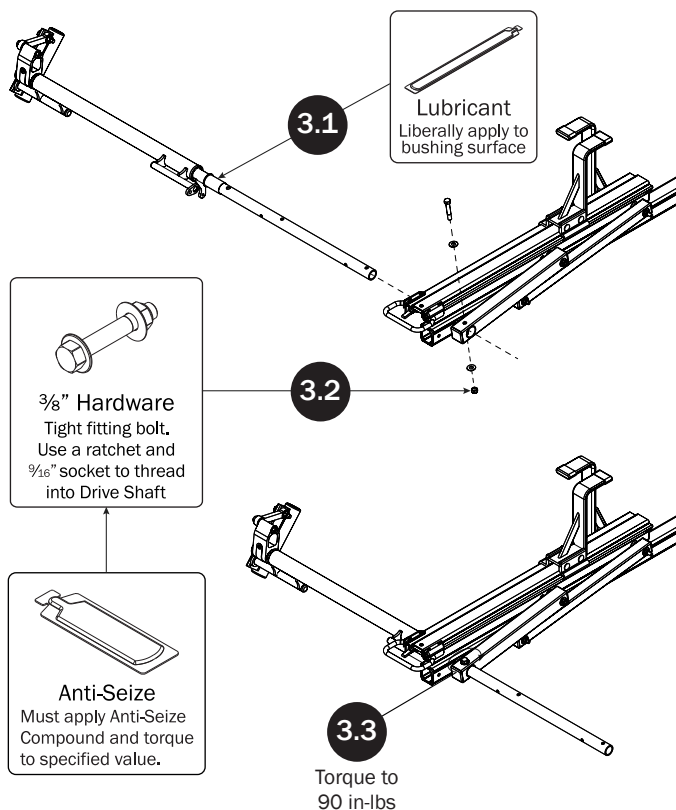


1.7 Set to distances then torque Bracket nuts to 90 in-lbs

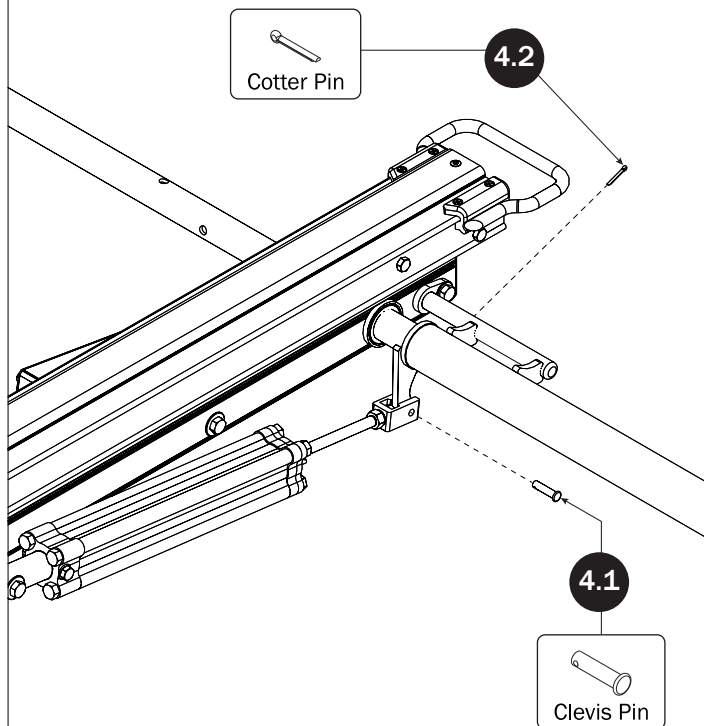


CROSSBARS**CROSSBAR ADJUSTMENT****REAR DRIVE SHAFT**

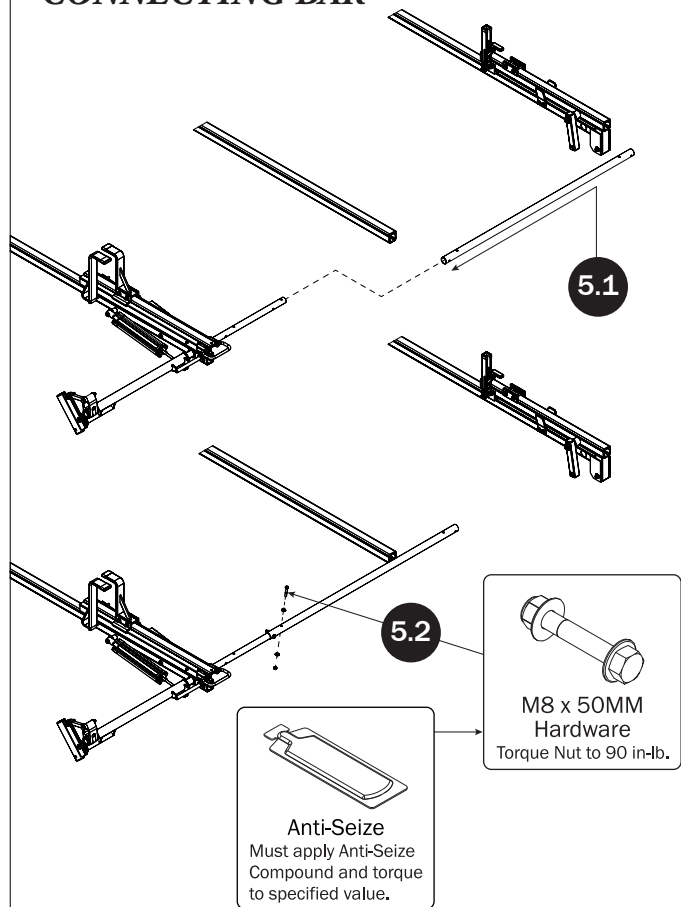
NOTE: For instructional clarity, the FBM Mounting System will not be shown for the remainder of this Assembly Manual.



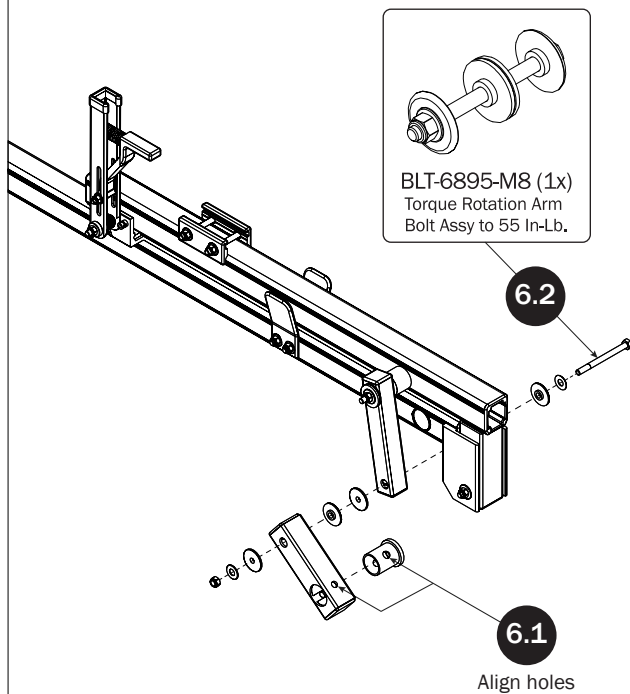
CYLINDER HARDWARE



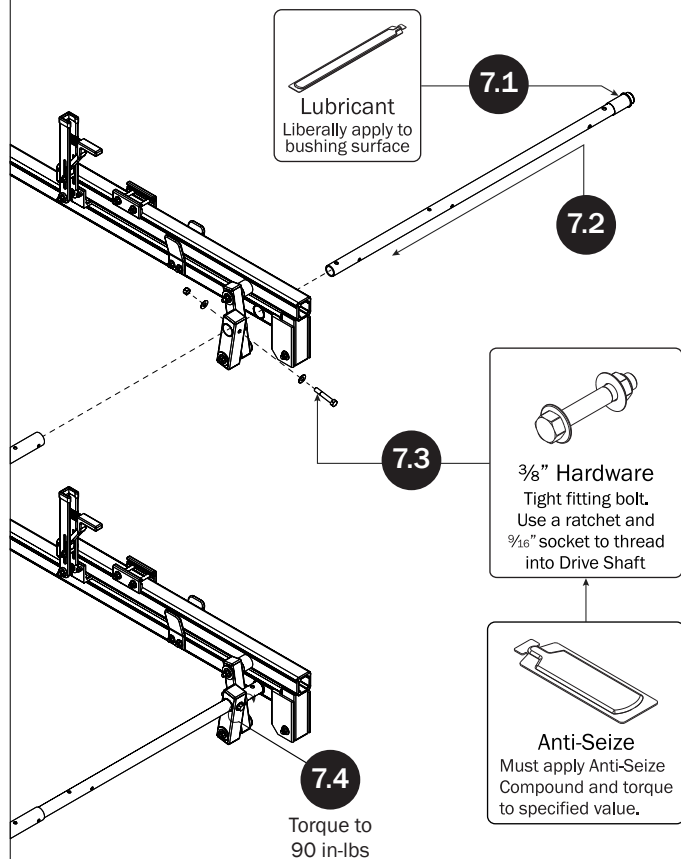
CONNECTING BAR



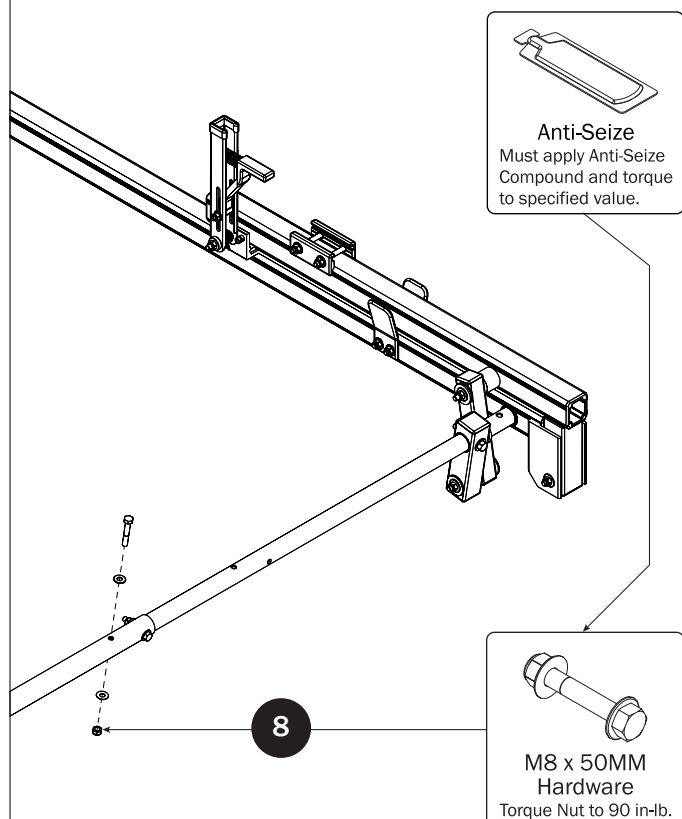
FRONT DRIVE ARM



FRONT DRIVE SHAFT



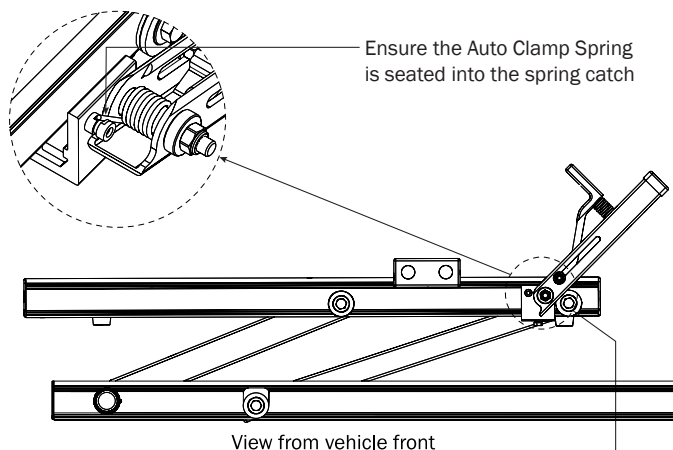
CONNECTING BAR FASTENERS



L POSTS

SEE QUICK START GUIDE FOR ADJUSTMENTS

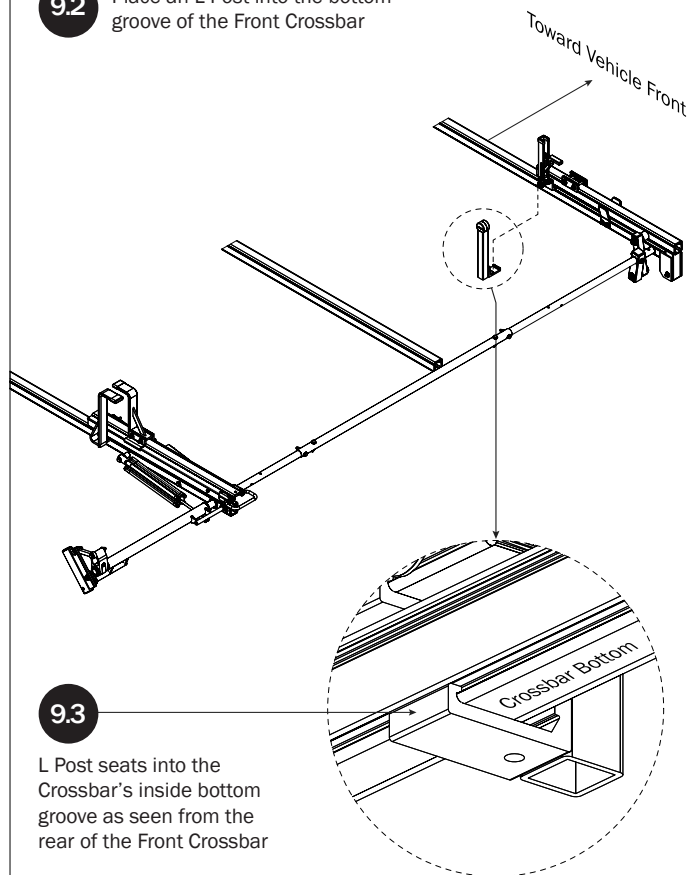
NOTE: The front Auto Clamp come preset from the factory for packaging purposes only. To assemble the L Post to the Crossbar, the Auto Clamps must be repositioned.



Beginning with the Front 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.

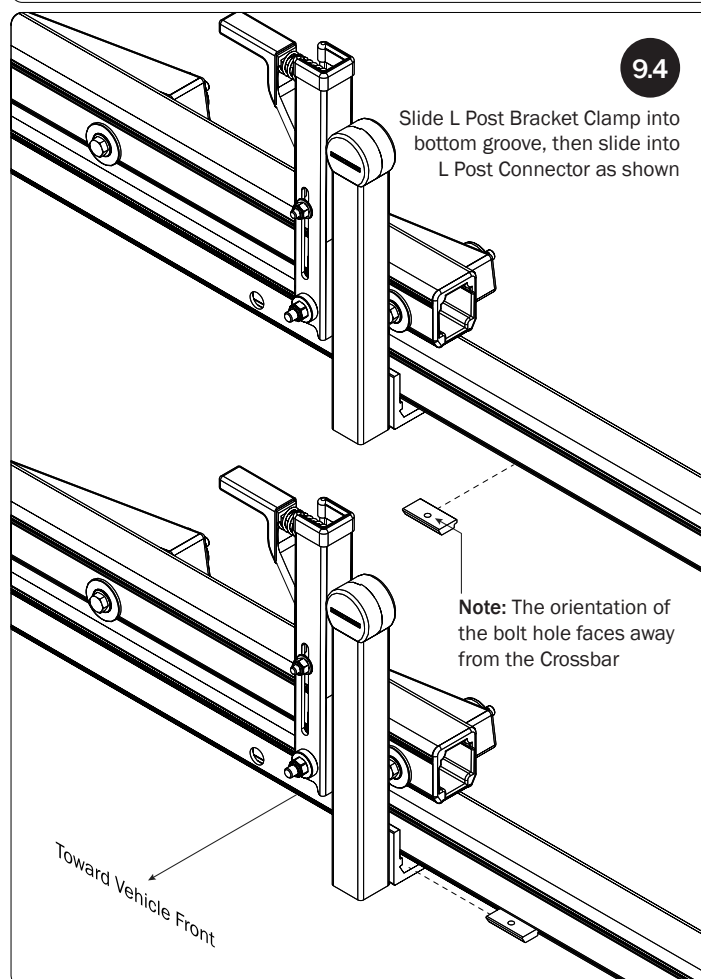
9.1

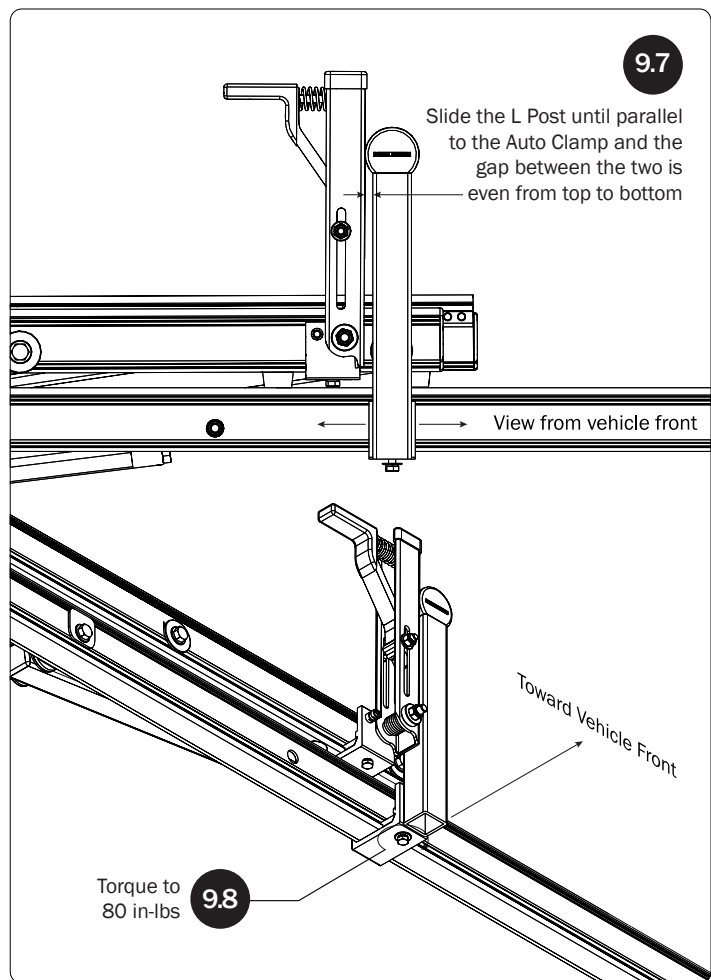
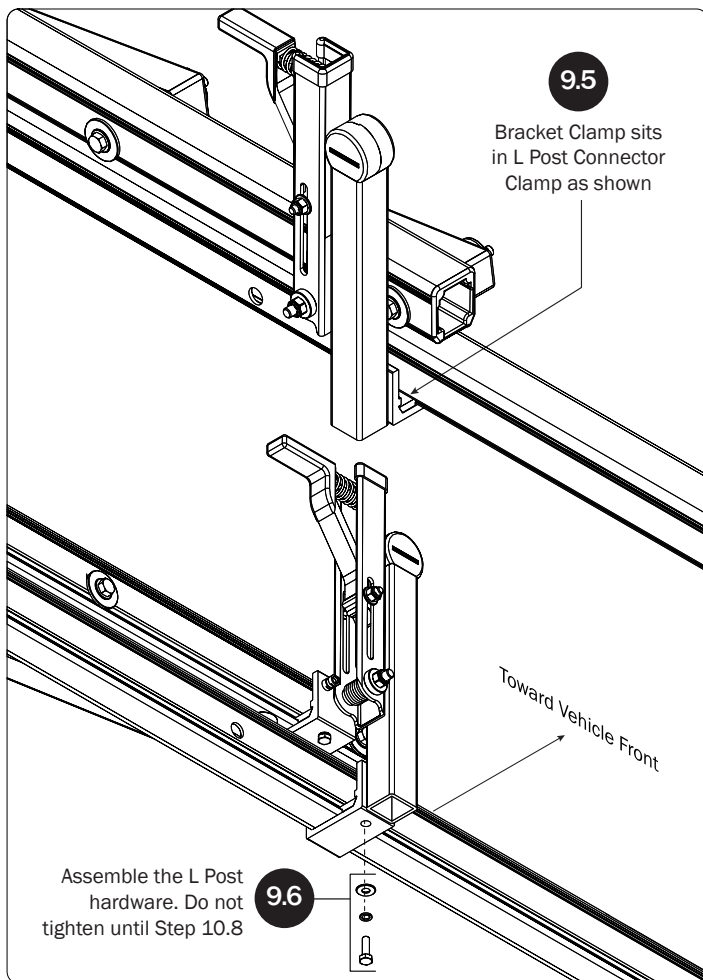
9.2 Place an L Post into the bottom groove of the Front Crossbar



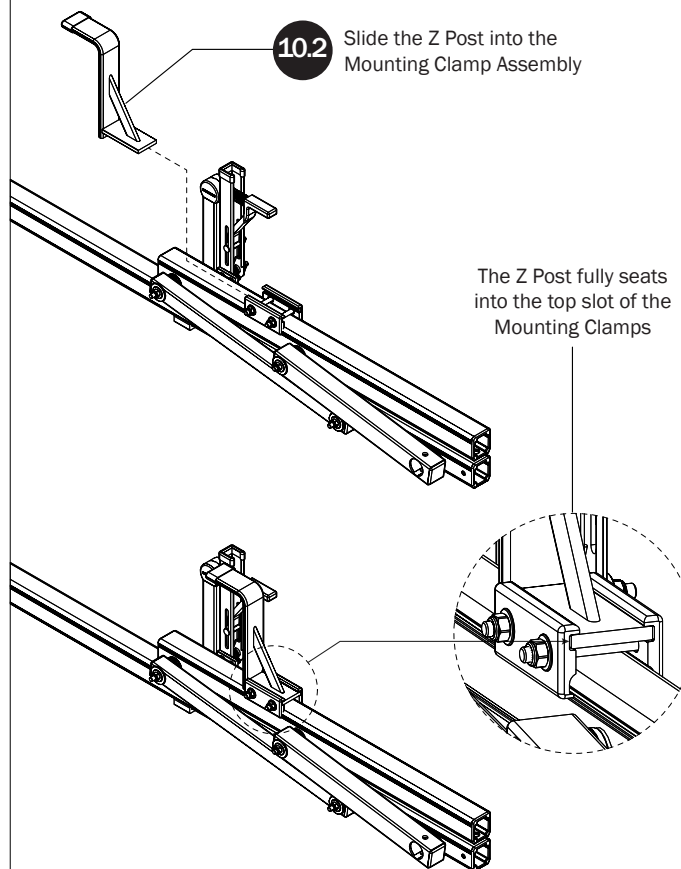
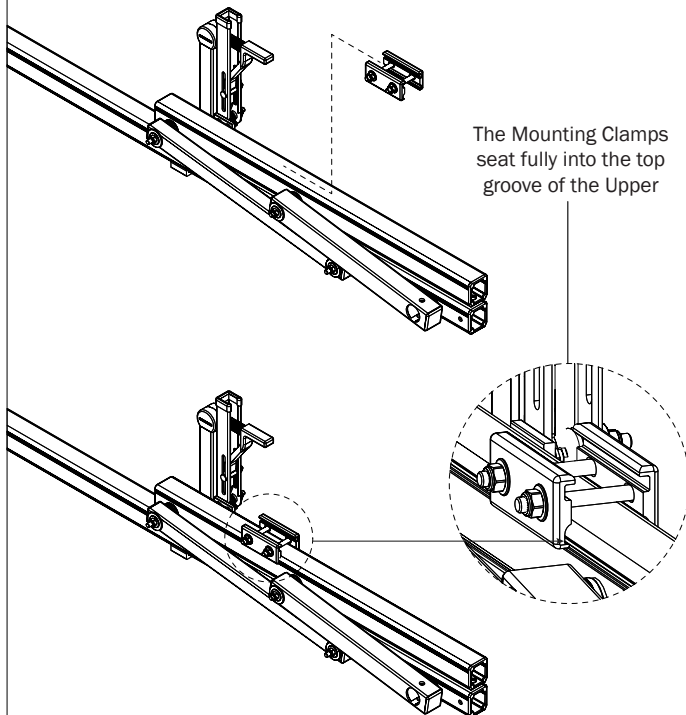
9.4

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



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

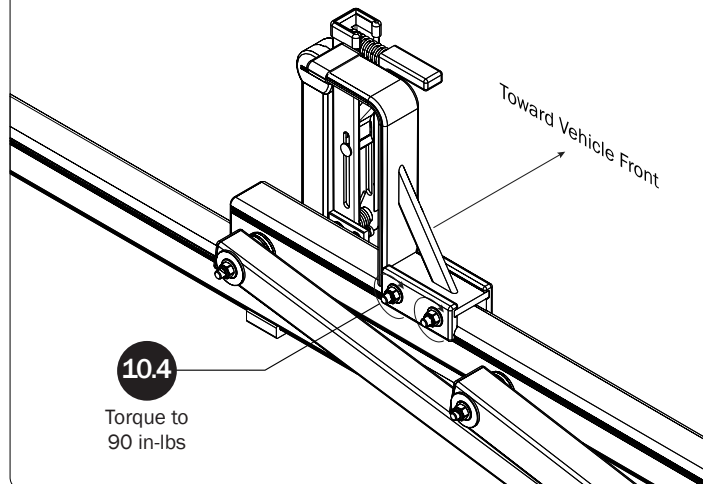
- 10.1** Assemble the Z Post Mounting Clamp Assembly onto the Rotation Upper. Do not tighten until Step 11.4



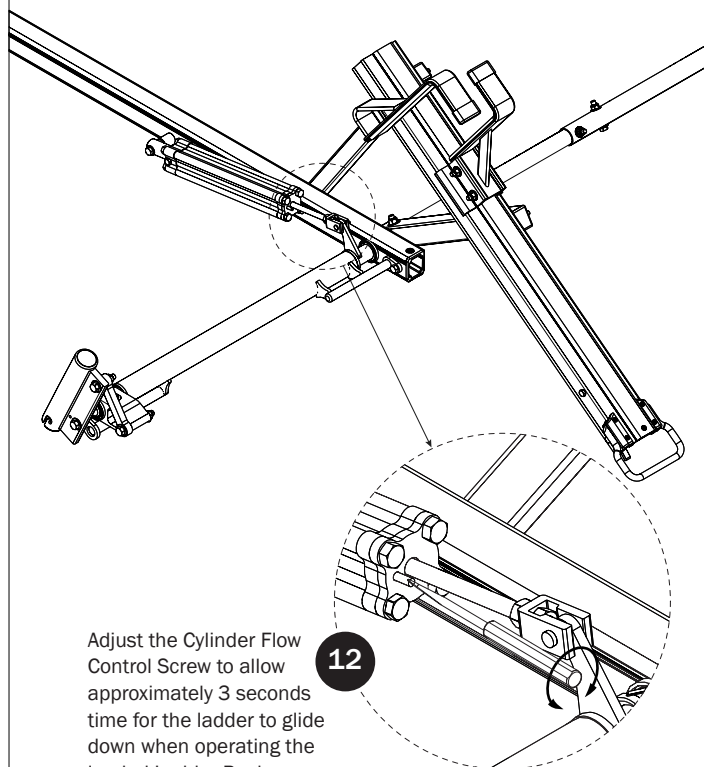
10.3

Refer to the Quick Start Guide for Z Post positioning.

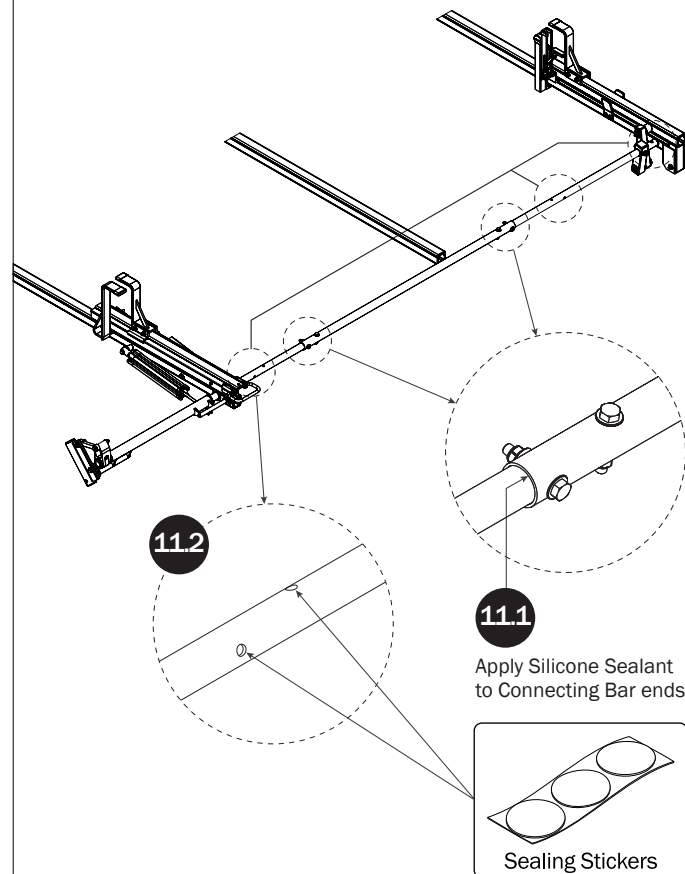
View from vehicle front



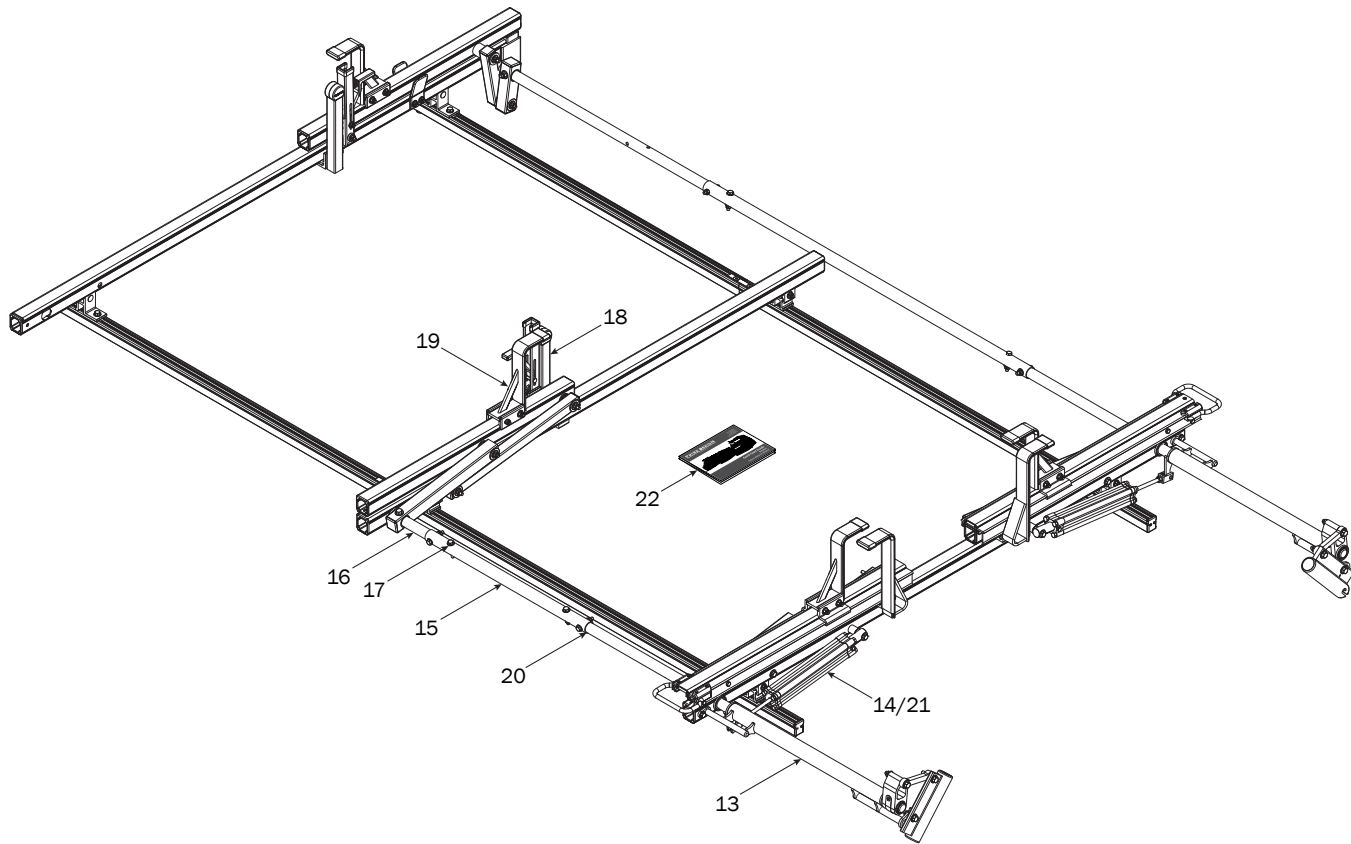
CYLINDER ADJUSTMENT



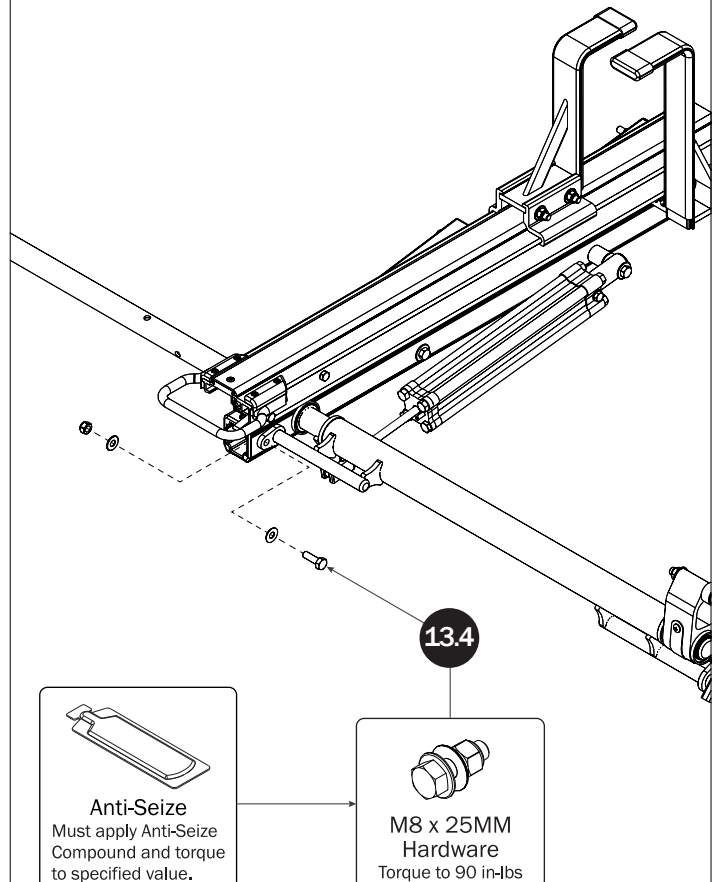
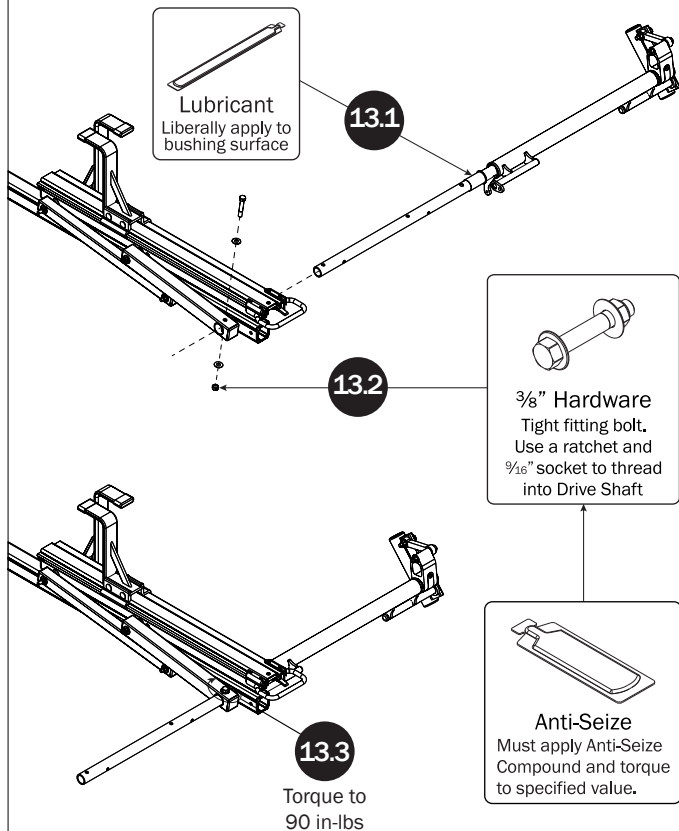
DRIVE SHAFT SEALING

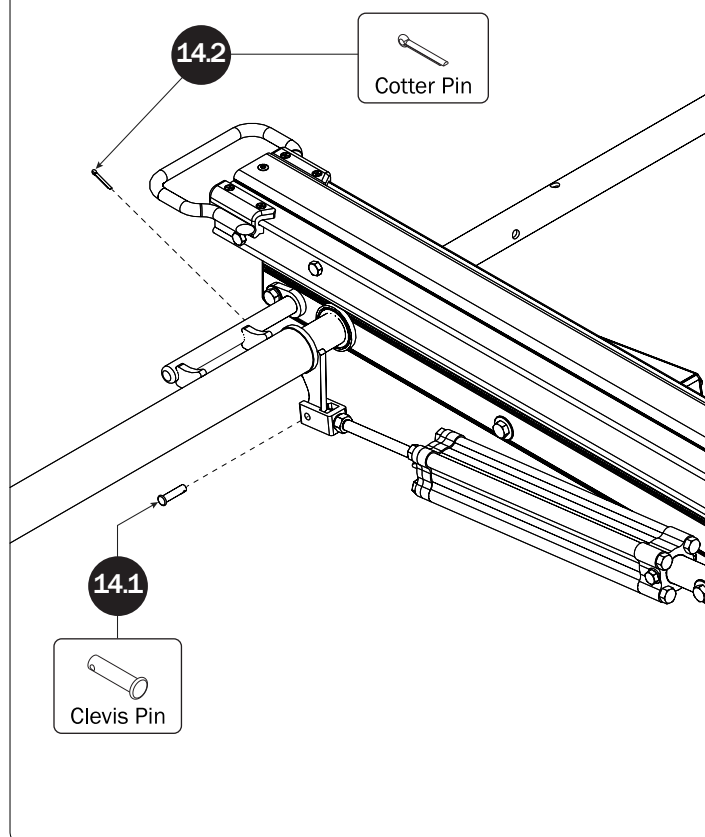
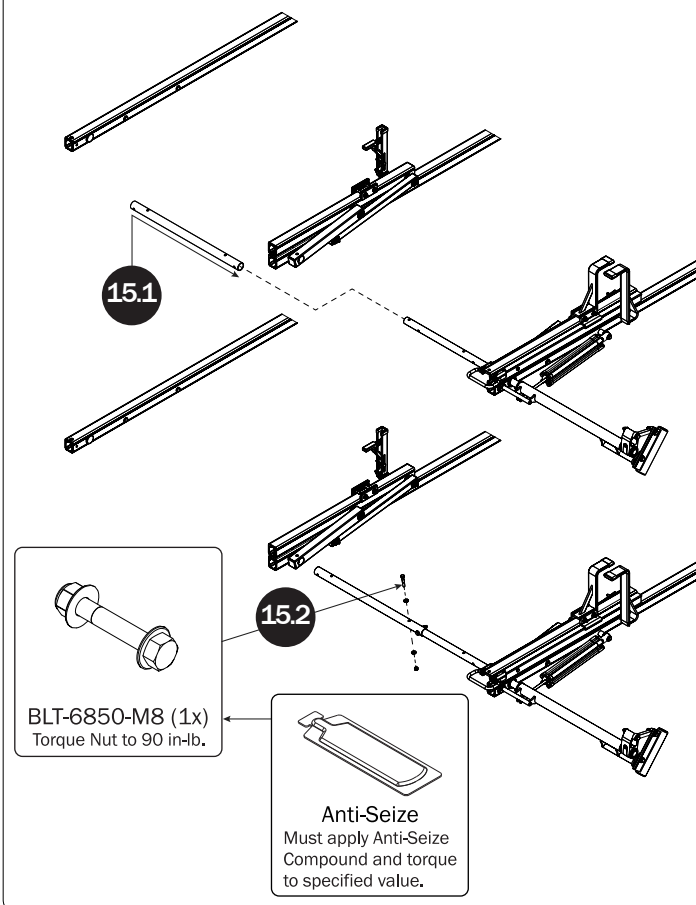
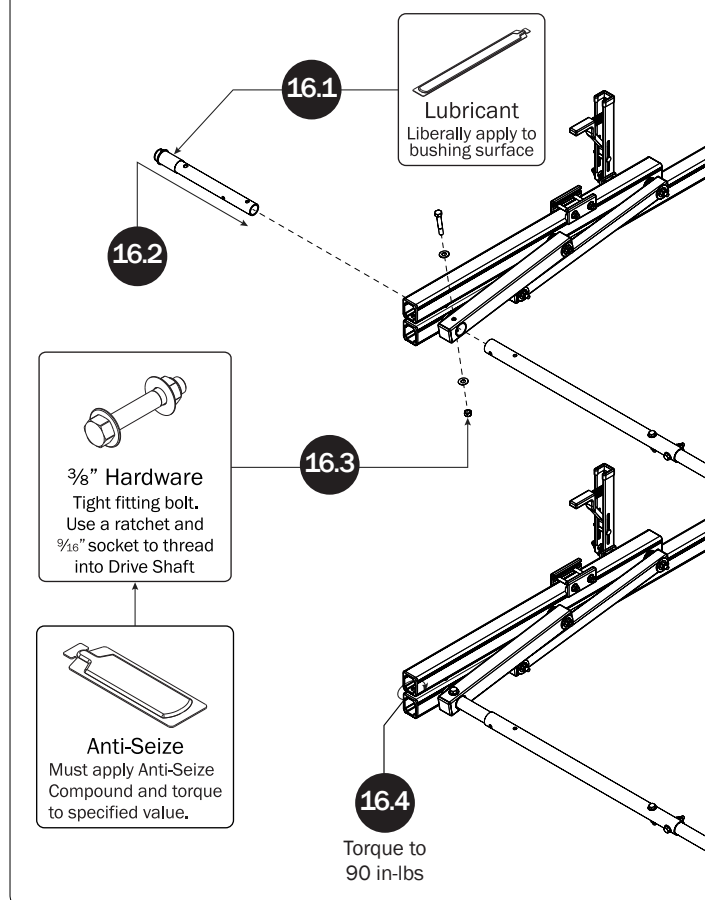
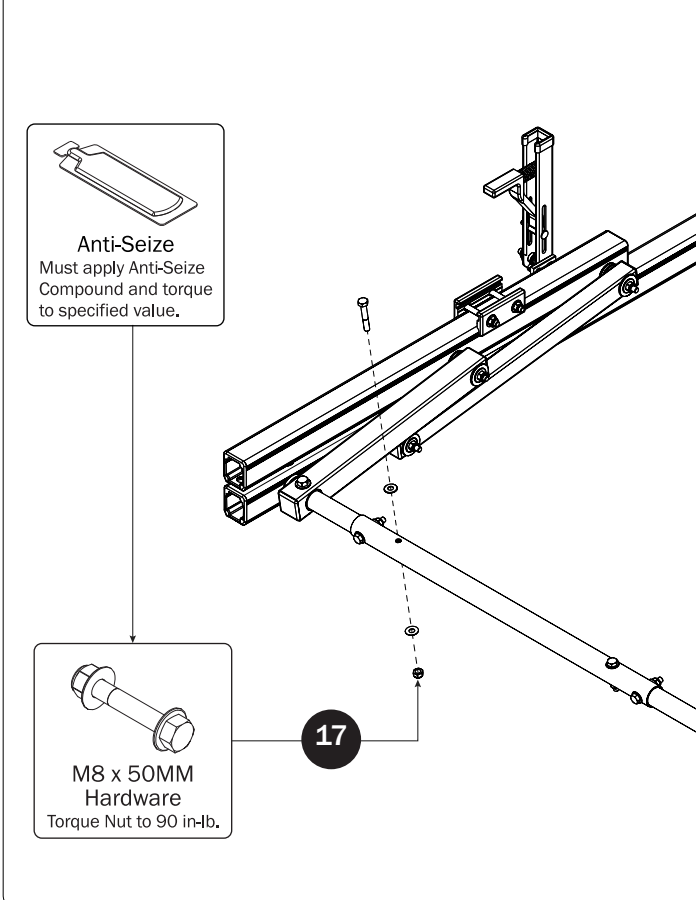


LEFT SIDE ASSEMBLY SEQUENCE



REAR DRIVE SHAFT



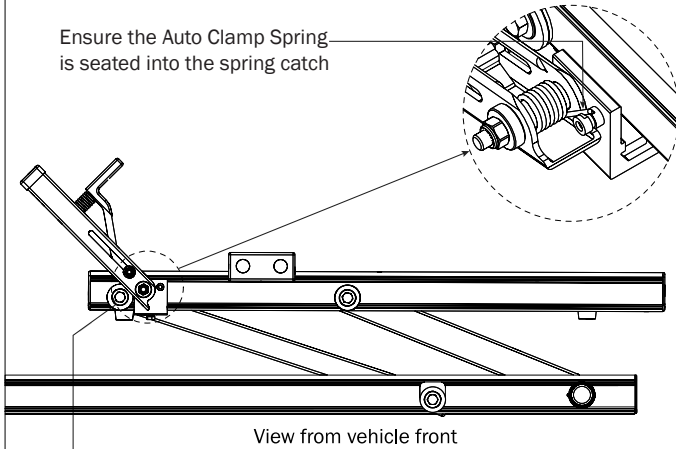
CYLINDER HARDWARE**CONNECTING BAR****FRONT DRIVE SHAFT****CONNECTING BAR FASTENERS**

L POSTS

SEE QUICK START GUIDE FOR ADJUSTMENTS

NOTE: The front Auto Clamp come preset from the factory for packaging purposes only. To assemble the L Post to the Crossbar, the Auto Clamps must be repositioned.

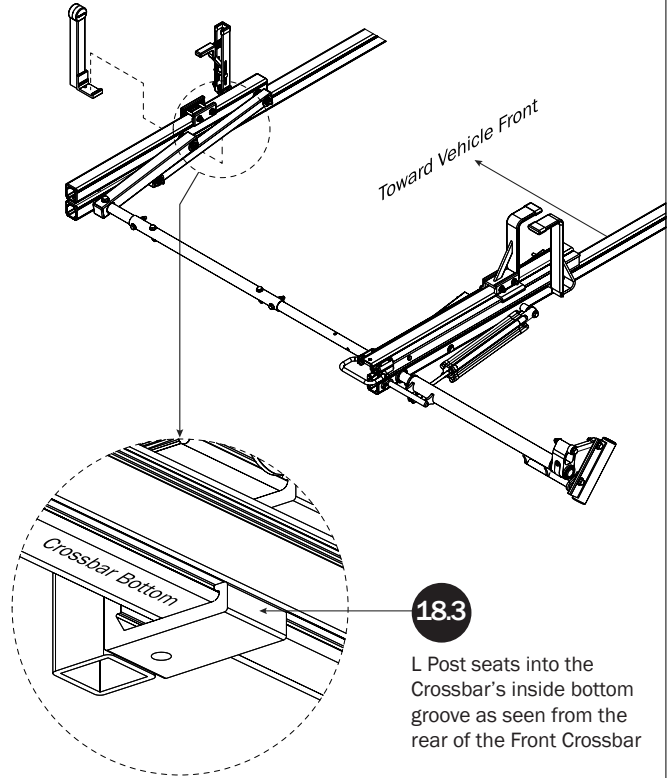
Ensure the Auto Clamp Spring is seated into the spring catch



View from vehicle front

18.1 Beginning with the Front 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.

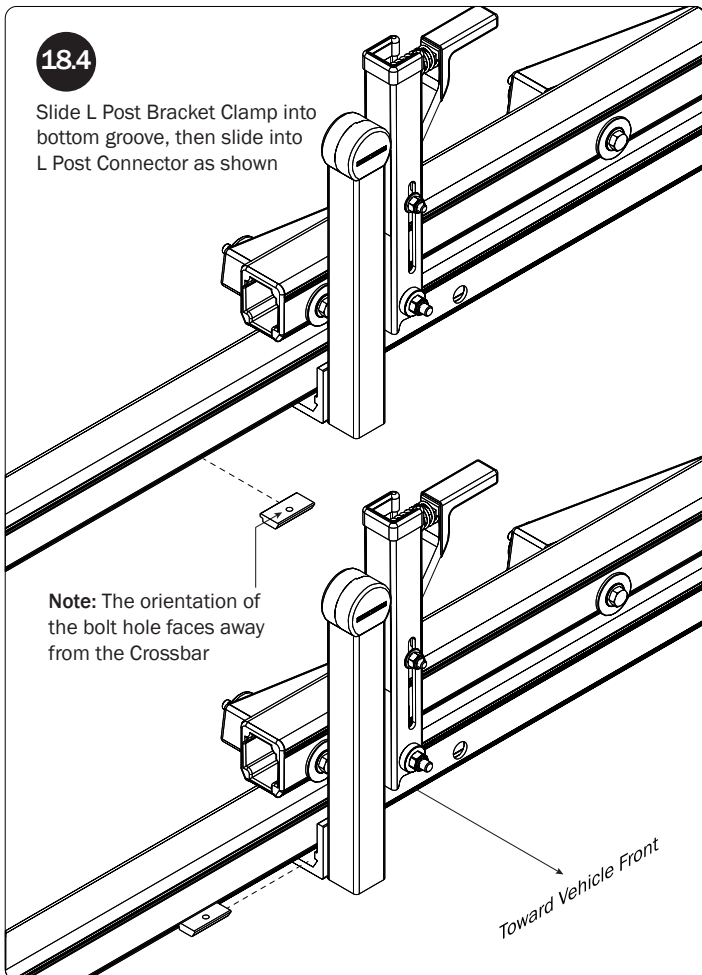
18.2 Place an L Post into the bottom groove of the Front Crossbar



18.3 L Post seats into the Crossbar's inside bottom groove as seen from the rear of the Front Crossbar

18.4

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

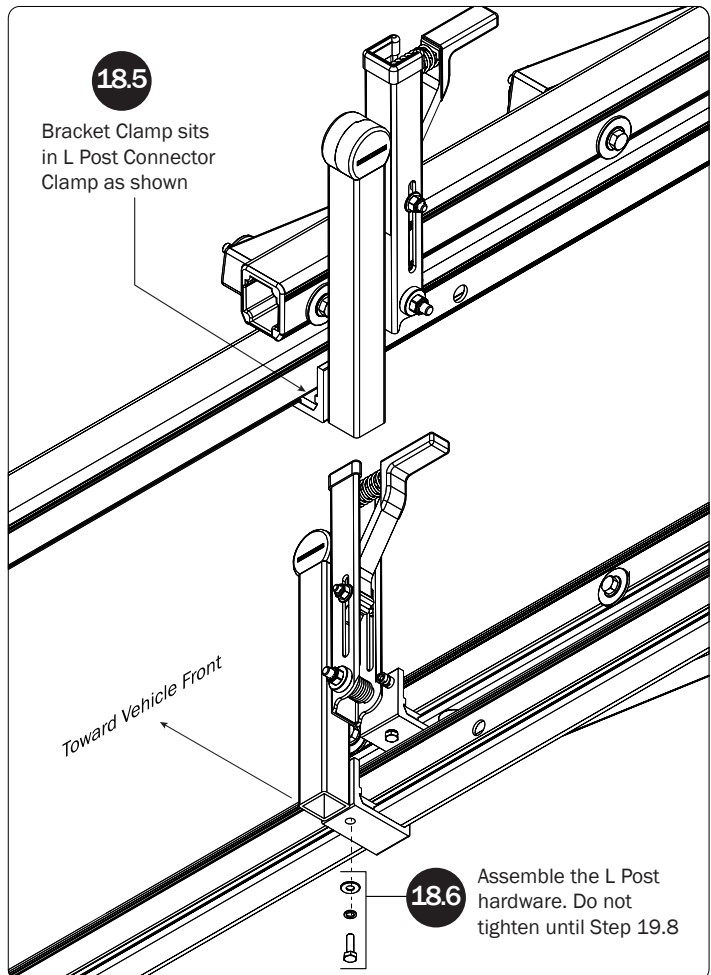


Note: The orientation of the bolt hole faces away from the Crossbar

Toward Vehicle Front

18.5

Bracket Clamp sits in L Post Connector Clamp as shown



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

18.7

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

View from vehicle front

Toward Vehicle Front

18.8

Torque to 80 in-lbs

Slide the Z Post into the Mounting Clamp Assembly

19.2

The Z Post fully seats into the top slot of the Mounting Clamps

19.3

Refer to the Quick Start Guide for Z Post positioning.

View from vehicle front

Toward Vehicle Front

19.4

Torque to 90 in-lbs

Z POSTS

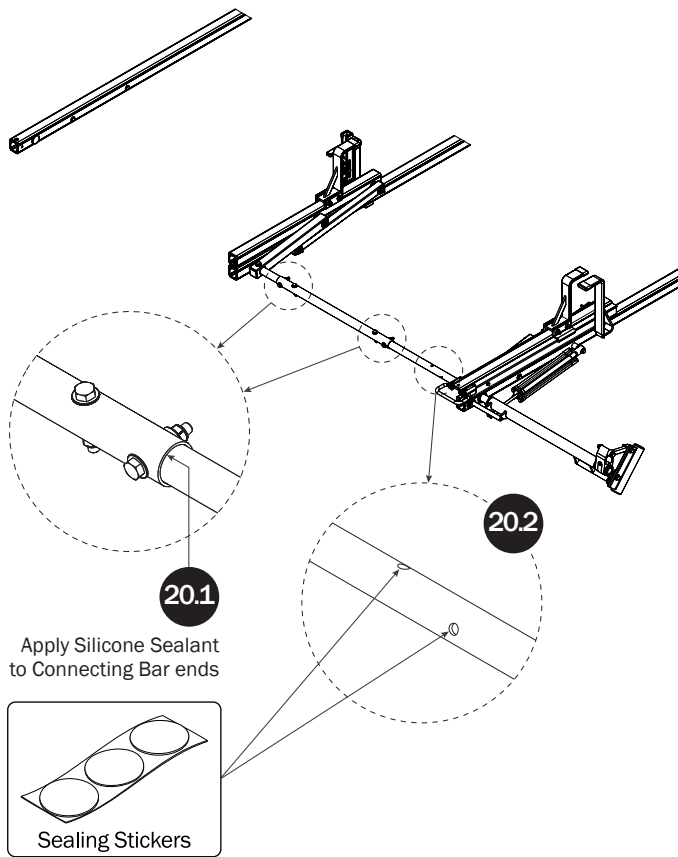
SEE QUICK START GUIDE FOR ADJUSTMENTS

19.1

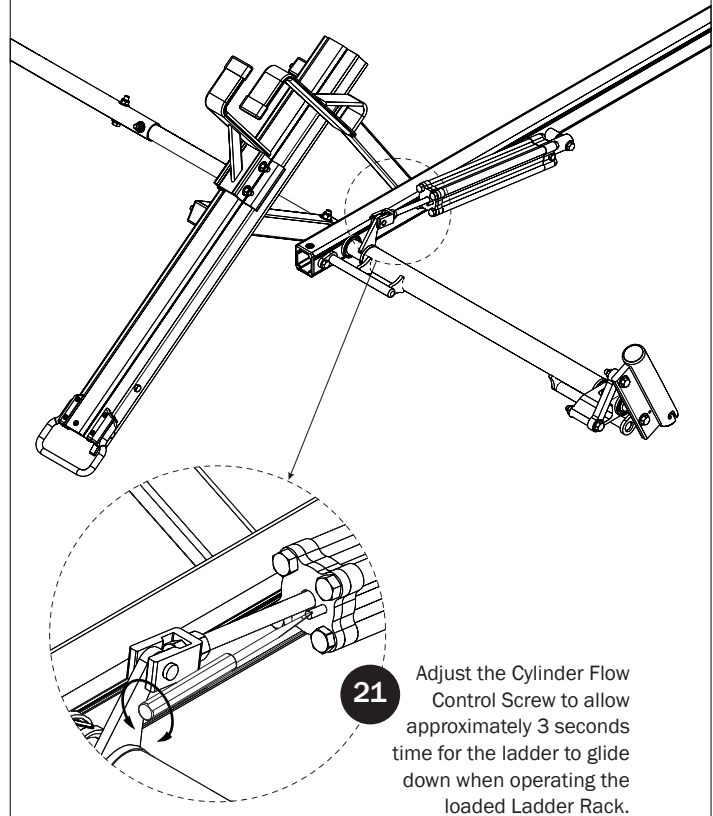
Assemble the Z Post Mounting Clamp Assembly onto the Rotation Upper. Do not tighten until Step 20.4.

The Mounting Clamps seat fully into the top groove of the Upper

DRIVE SHAFT SEALING



CYLINDER ADJUSTMENT



QUICK START GUIDE

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

