

ASSEMBLY INSTRUCTIONS
for:

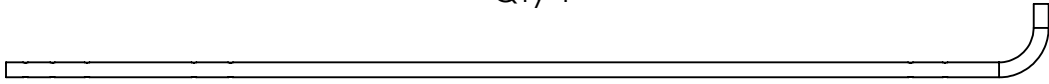
**Clamp & Lock
Ladder Rack
(Curb Side Only)**

40804

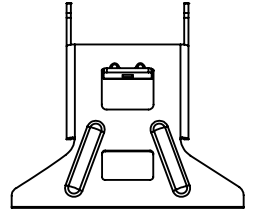
KARGO MASTER®

40804 Parts List

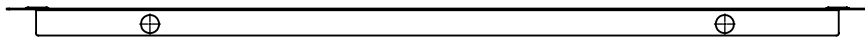
Side Tube Assembly
Item -012
Qty 1



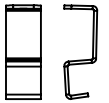
Gutter Mount
Item -041
QTY 4



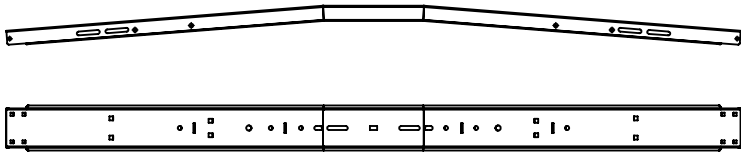
Support Angle
Item -014
QTY 1



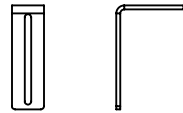
Gutter Clamp
Item -044
QTY 4



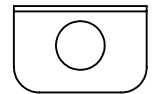
Cross Bow
Item -001
Qty 2



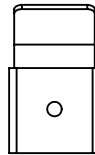
Pad Bracket
Item -026
QTY 1



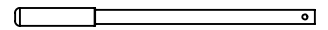
Bracket Plate
Item -015
QTY 1



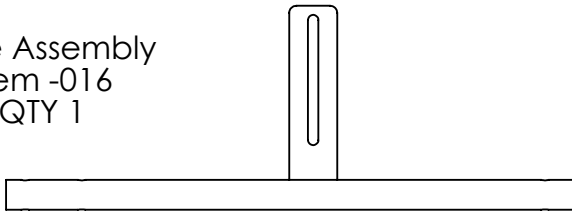
Clamp Pads
Item -034
QTY 2



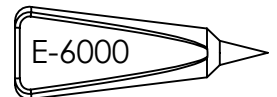
Handle
Item -002
QTY 1



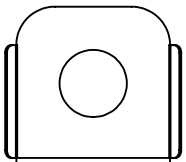
Tube Assembly
Item -016
QTY 1



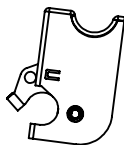
E-6000
QTY 1



Load Lock Plate
Item -025
QTY 2



Lock Box Assembly
Item -002
QTY 1



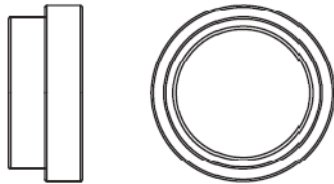
40804 Hardware List

Tools Needed

8' Tape Measure	1/2" End Wrench
1/2" Socket	9/16" End Wrench
9/16" Socket	Hammer

Component Pack

Qty 2 Flange Bushing Item -013



Qty 2 5/16" ID Nylon Washer Item -038



Hardware Pack

(a)
Qty 2 -
3/8"-16 x 3/4" Carriage Bolt



(b)
Qty 11 -
3/8" Flat Washer



(c)
Qty 3 -
3/8"-16 Nylock Nut



(d)
Qty 8 -
3/8"-16x3/4" Hex Head Bolt

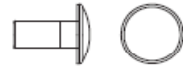


Hardware Pack Cont'

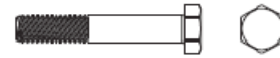
(e)
Qty 8 -
3/8" Lock Washer



(f)
Qty 4 -
5/16" x 3/4" Carriage Bolt



(g)
Qty 1 -
5/16"-2 3/4" Hex Bolt



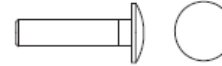
(h)
Qty 16 -
5/16" Nylock Nut



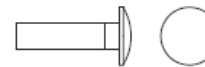
(k)
Qty 16 -
5/16" Flat Washer



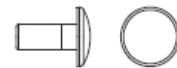
(u)
Qty 7 -
5/16" x 1 3/4" Carriage Bolt



(v)
Qty 4 -
5/16" x 1 1/4" Carriage Bolt



(w)
Qty 1 -
3/8" -16 x 1" Carriage Bolt

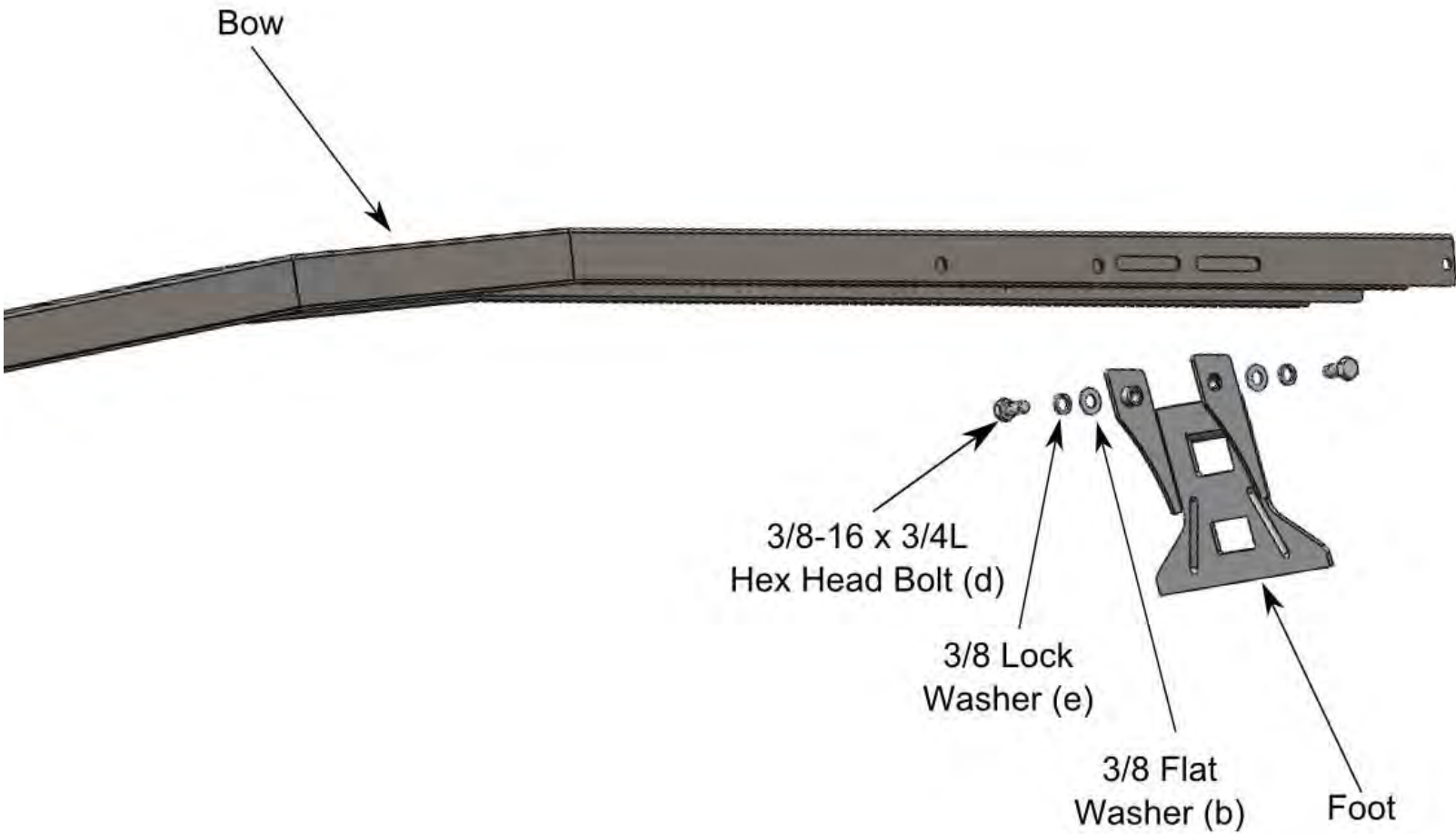


(z)
Qty 1 -
5/16" Contour Washer



Step 1

Attach each Gutter Mount Foot Item -041 to Cross Bow Item -001 using 2 x 3/8" x 3/4" carriage bolt, flat washer and lock nut. **Use location "A" for Ford or "B" for Chevy.** **Tighten almost all the way, but leave slightly loose to allow for adjustment later.** **Limited access to these nuts makes final tightening difficult, so minimize.**

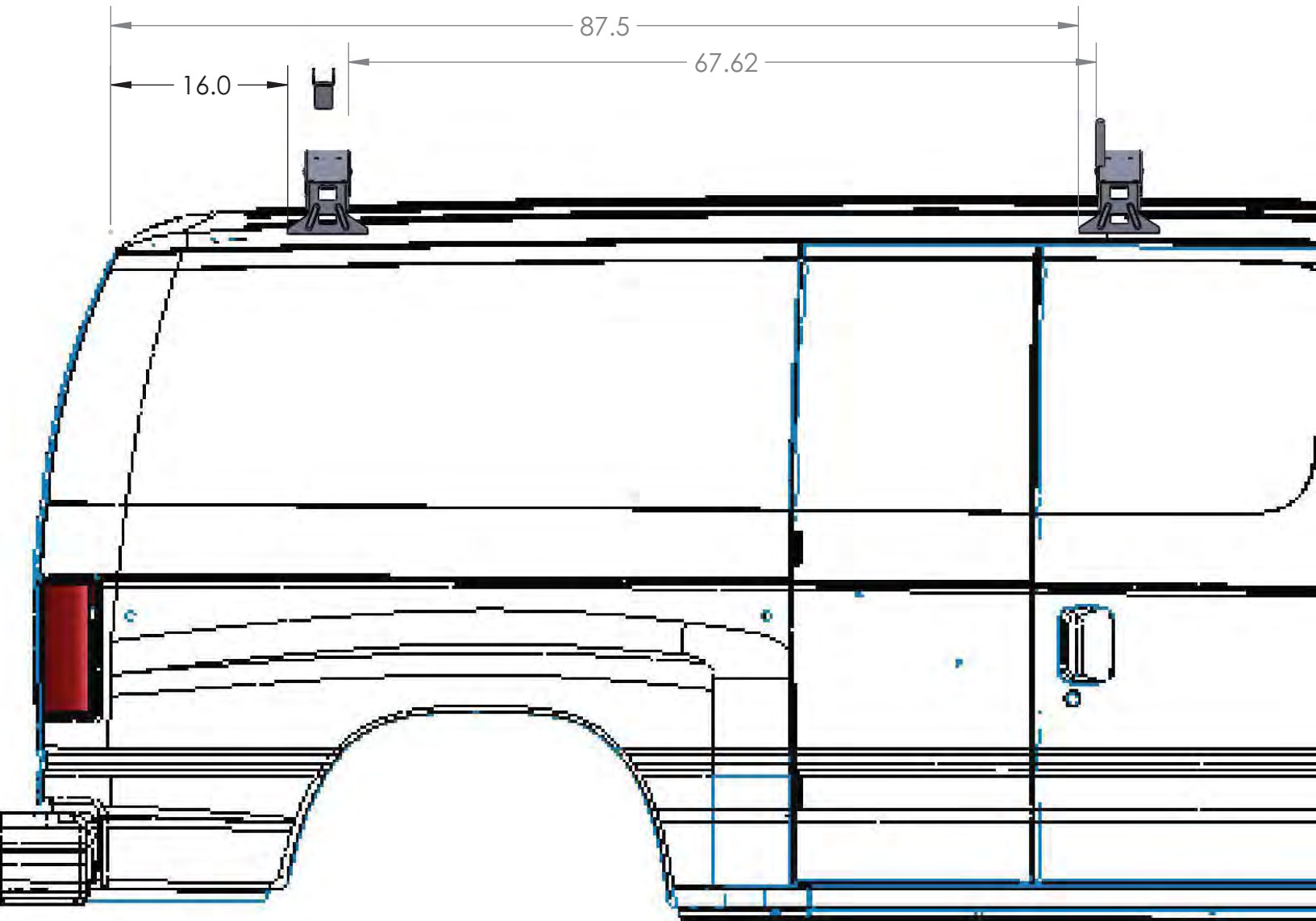


Step 1 Continued

We recommend building the rack on a workbench, and then using 3 friends or a hoist to position the completed rack on the roof of the van. If this is not possible, then you will have to build the rack on the roof of the van as set forth below.

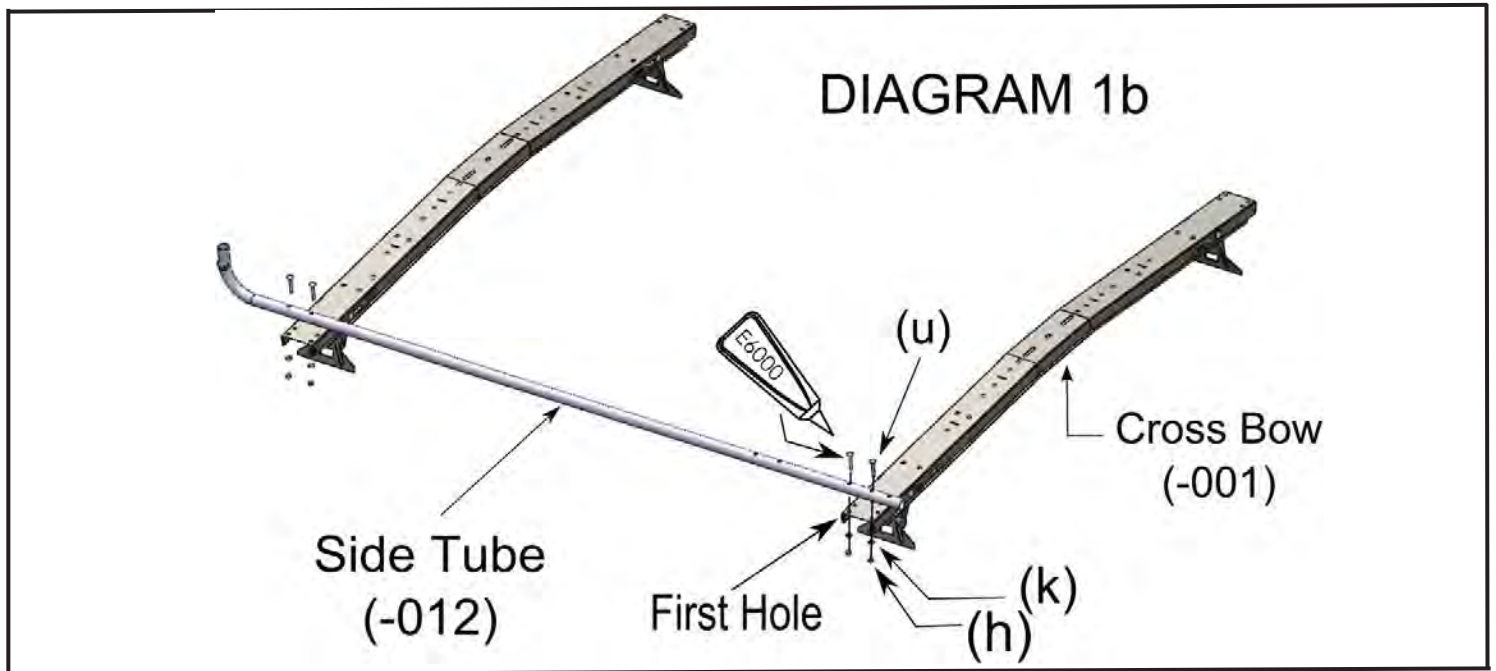
Place the rear bow on top of the van with the Kargo Master decal facing the back of the van. Position the rear bow about 16" forward of the back of the van as shown below.

Place the front bow on top of the van with the Kargo Master decal facing the front of the van. Position the front bow so that there is about 67 5/8" between the bows as shown below.



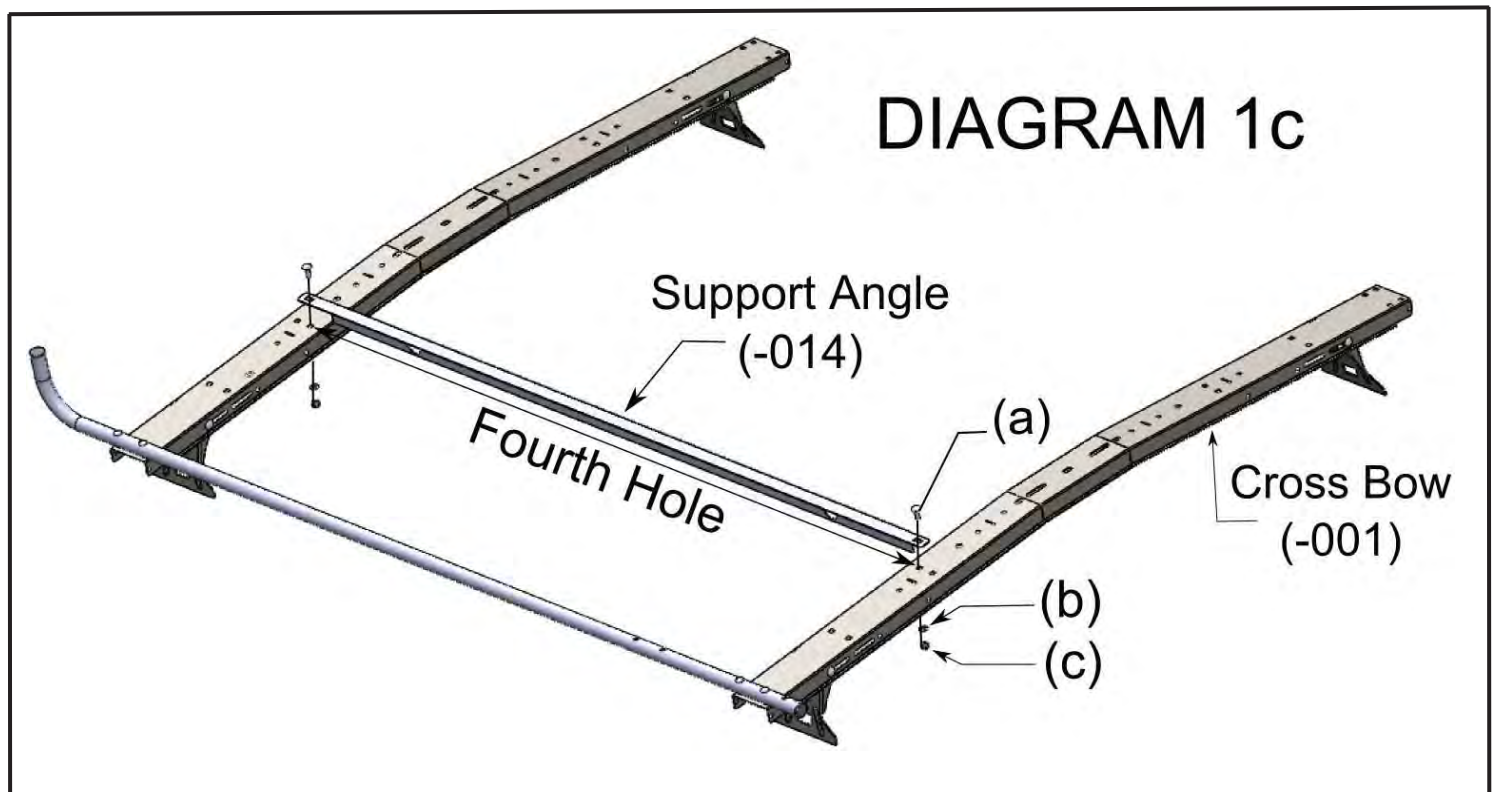
STEP 2

Install side tube (-012) per **[DIAGRAM 1b]** using 4 each 5/16 x 1 3/4 carriage bolts (u), 4 each 5/16 flat washers (k) and 4 each 5/16 nylock nuts (h). Run bead around the head of the button head bolts with E6000 sealer (supplied). (This will prevent possible corrosion of the tube I.D.) There is 1 each of a 5/16 nylock jam nut, a jam nut is thinner than the other nuts. Find it and set it aside for step 8. SHOWN BELOW ON THE STREET SIDE.



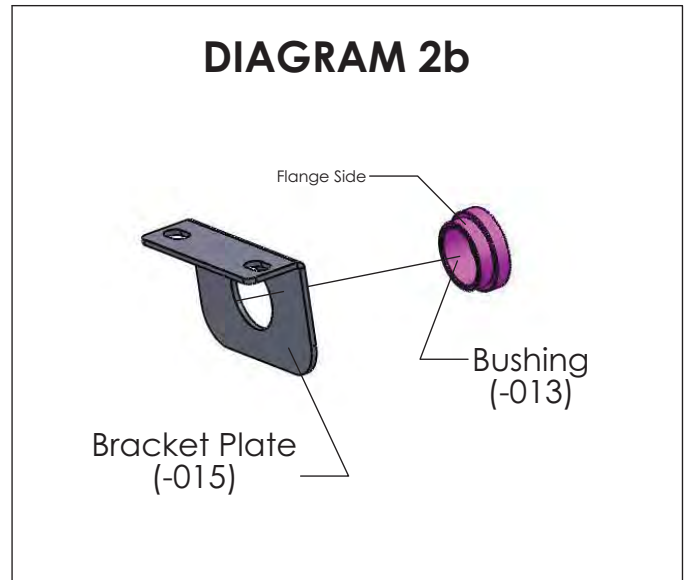
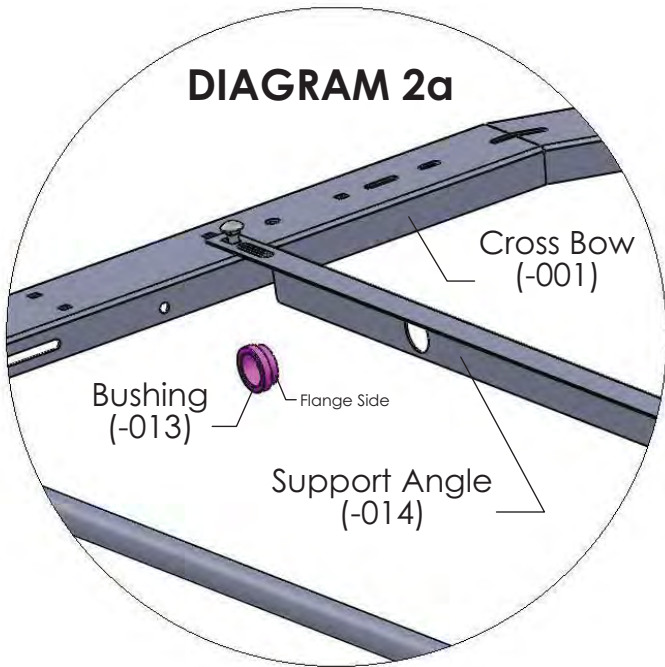
STEP 3

Install support angle (-014) per **[DIAGRAM 1c]** using 2 each 3/8 x 3/4 carriage bolts (a), 2 each 3/8 flat washers and 2 each 3/8 nylock nuts (c). Install into fourth square hole from the end of cross bow (-001). SHOWN BELOW ON STREET SIDE.



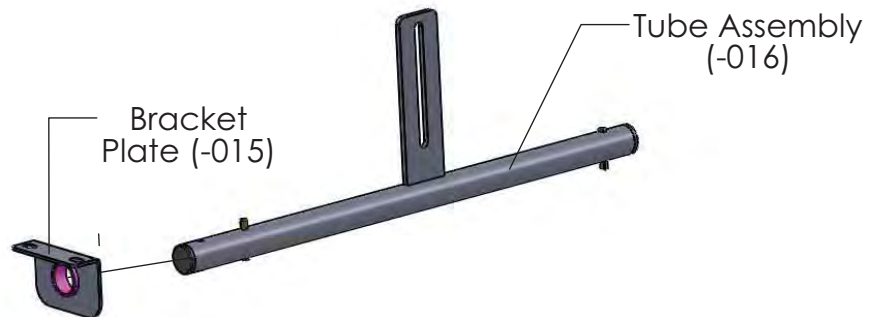
STEP 4

Next, insert bushing (-013) into support angle (-014) flange side in per **[DIAGRAM 2a]**. Next, insert bushing (-013) into bracket plate (-015) as shown in **[DIAGRAM 2b]**.



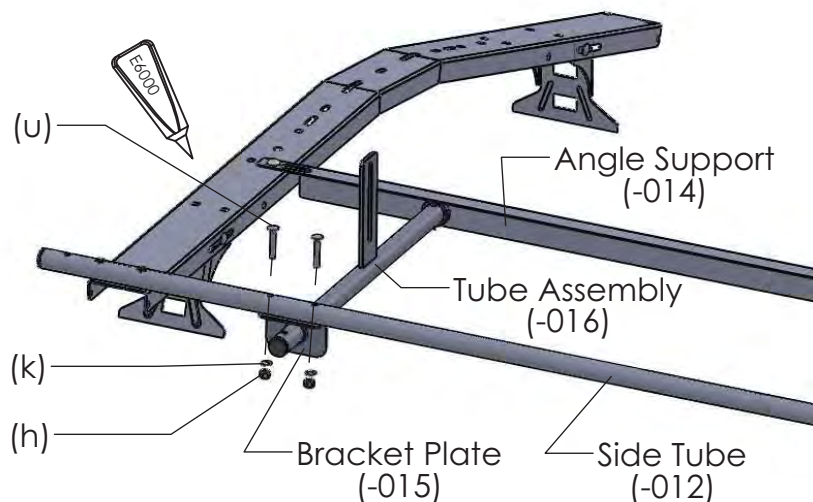
STEP 5

Install bracket plate (-015) with the flange facing outward onto tube assembly (-016) as shown.



STEP 6

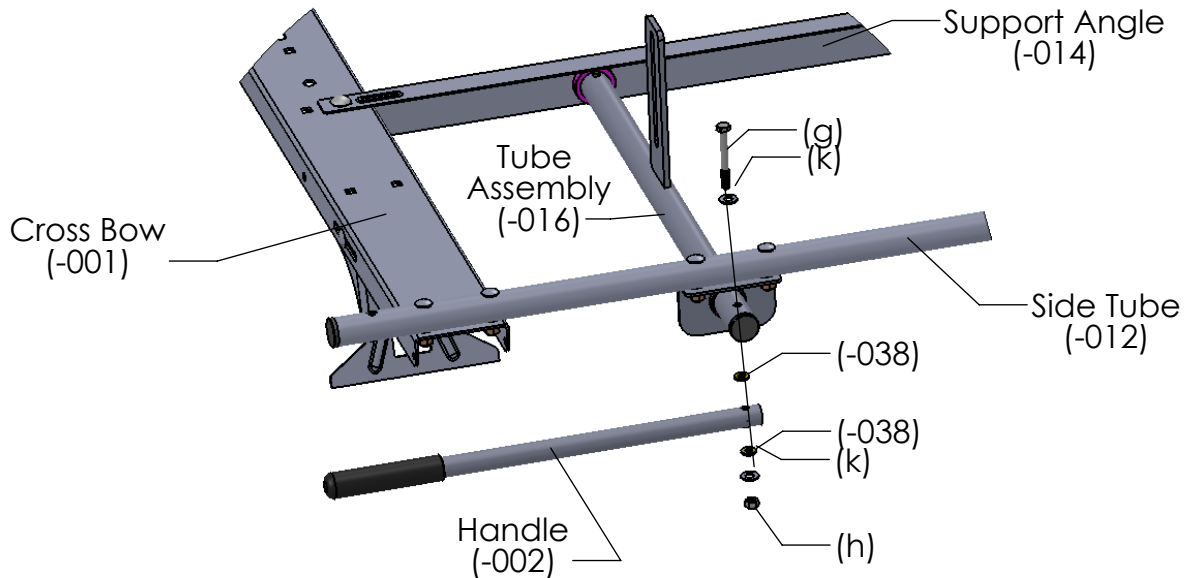
Now install the end of tube assembly (-016) into the bushing on the support angle (-014). Match up the holes in the bracket plate (-015) to the holes in the side tube (-012) and insert 2 each 5/16 x 2 carriage bolts (u), 2 each 5/16 flat washers (k) and 2 each 5/16 nylock nuts (h). Coat bolts with E6000.



STEP 7

Next, install handle (-002) to the end of tube assembly (-016) using 1 each 5/16 x 2 3/4 hex bolt (g), 2 each nylon washers (-038), 2 each 5/16 flat washers (k), 1 each 5/16 nylock nut (h). Note: insert washers (-038) over and under handle tube (-002) per **[DIAGRAM 3]**. Tighten so handle rotates freely.

DIAGRAM 3



STEP 8

Install the lock box assembly (-002) to the end of the side tube (-012) per **[DIAGRAM 4]** Using 1 each 5/16 x 2 carriage bolt (u), 1 each 5/16 washer (k), 1 each 5/16 nylock nut (h). Coat bolt with E6000 as shown.

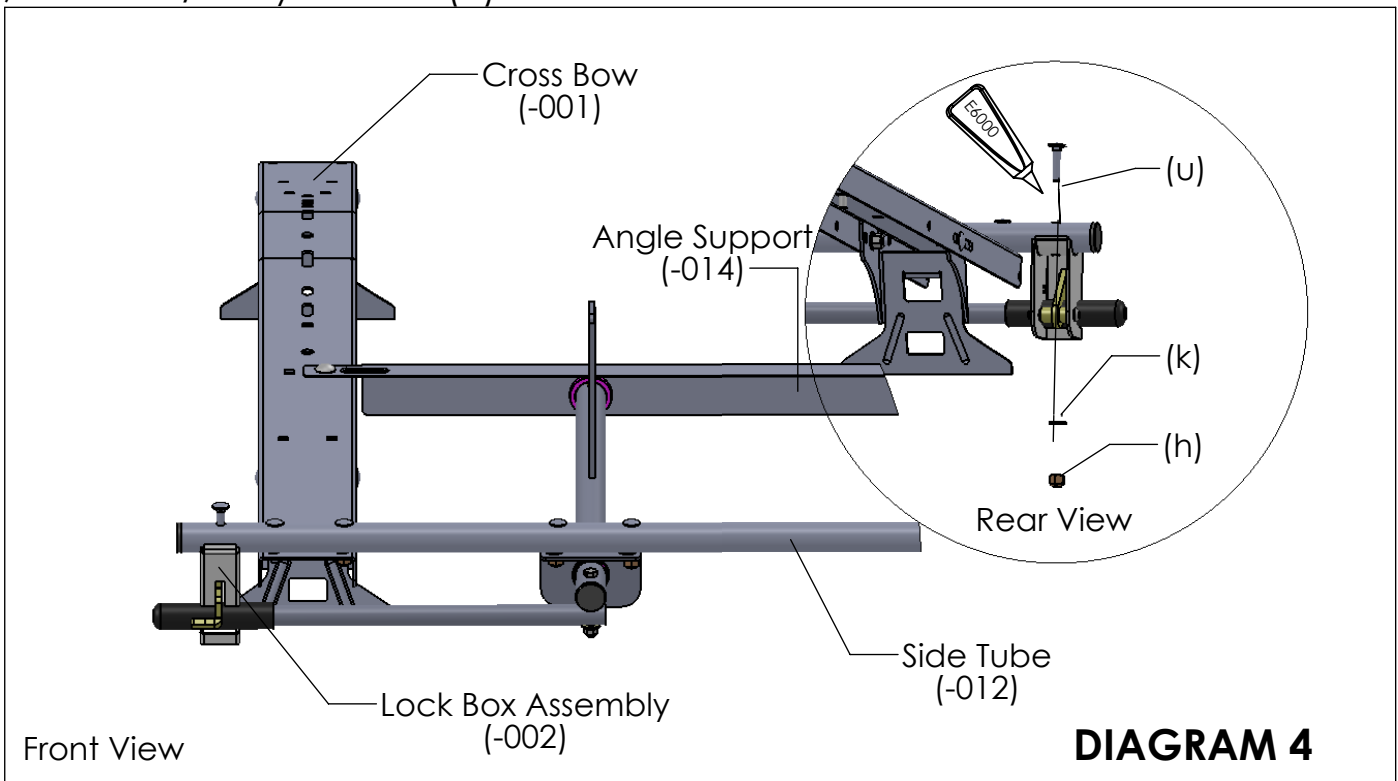


DIAGRAM 4

STEP 9

Install pad bracket (-026) using 1 each 3/8 x 1 carriage bolt (a), 1 each 3/8 flat washer (b), 1 each 3/8 nylock nut (c) shown in **[DIAGRAM 7]**. Do not tighten for later adjustment.

Now install the clamp pads (-034) to pad bracket (-026) and tube assembly (-020) per **[DIAGRAM 7a]** using 2 each 3/8 washers (b) and 2 each 3/8 nylock nuts (c). Do not tighten.

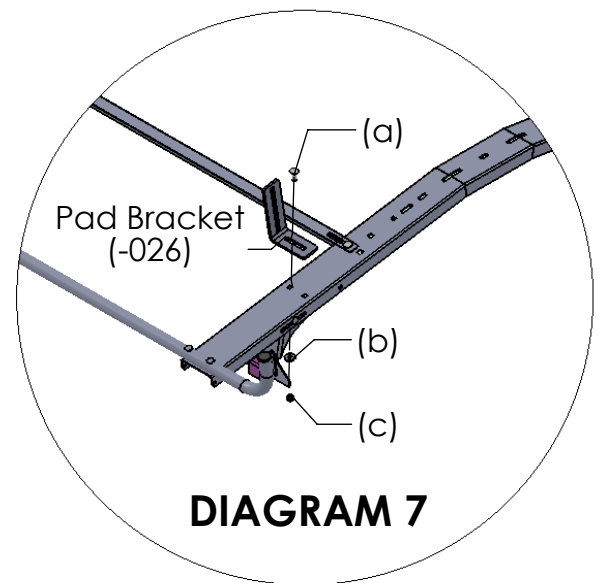


DIAGRAM 7

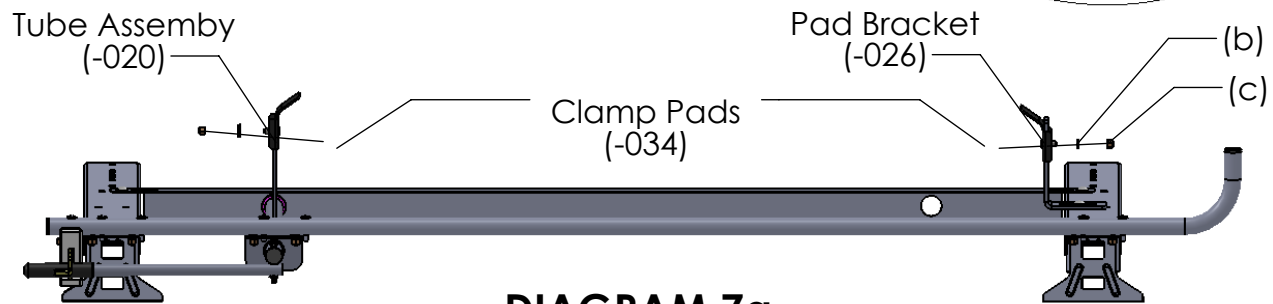


DIAGRAM 7a

STEP 10

Now install ladder into desired position with ladder rung firmly against the clamp pads. Now adjust front pad bracket (-026) firmly against rung. It may be necessary to move pad bracket (-026) to align with one of the two square holes in the cross bow. Note: position pad bracket (-026) so adequate pressure is applied to ladder rung when rotating handle (-002). Ladder should be clamped firm with no movement when handle is in lock position. Tighten all hardware. You may want to install load lock plate (-025) using 4 each 5/16 x 3/4 carriage bolts (f), 4 each 5/16 flat washers (k), and 4 each 5/16 nylock nuts (h) per **[DIAGRAM 8]**.

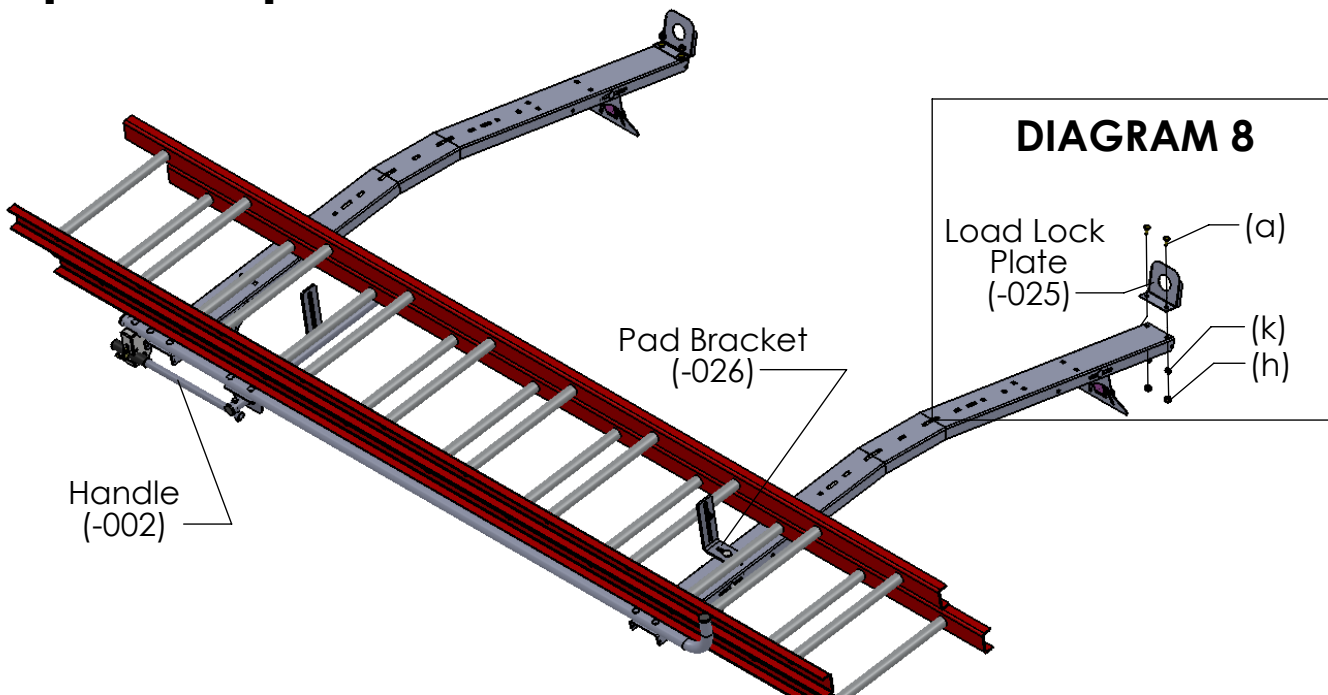
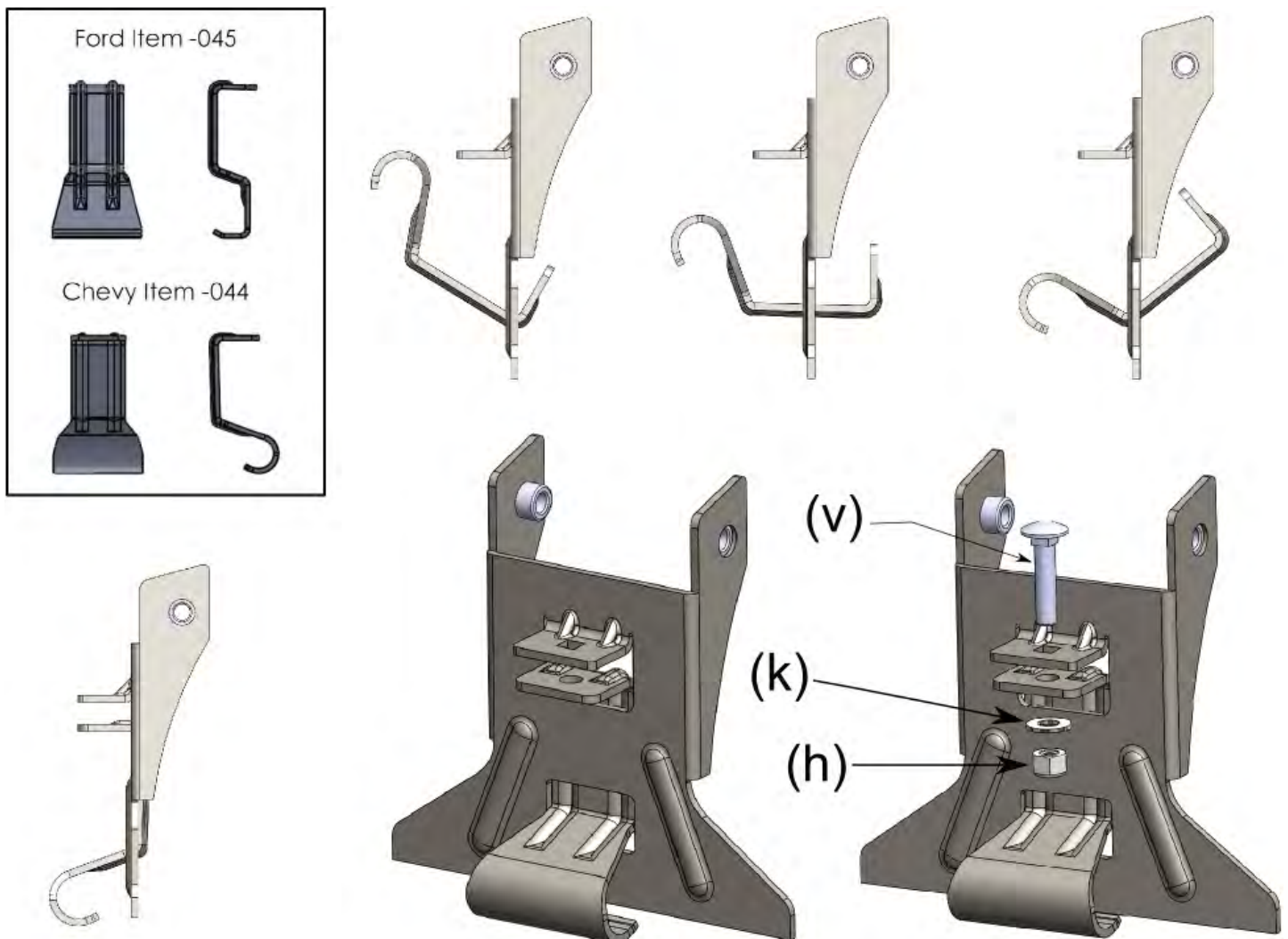


DIAGRAM 8

Step 11

If you have built the rack on a workbench, position it on top of the van now. Make certain that each Gutter Mount Foot Item-041 is sitting down firmly on the metal rain gutter. Chevy vans have a bead of mastic on the outboard side of the rain gutter. The Foot should be positioned inboard of the mastic. Your rack includes 4 x Chevy Gutter Clamps Item -044 and 4 x Ford Gutter Clamps Item -045. See diagram below. Select the appropriate Clamps for your vehicle.

Insert a Gutter Clamp through each Foot as shown below. Attach a Clamp to each Foot using 5/16" x 1 1/4" carriage bolt, flat washer, and lock nut. Before tightening fully, make certain that the Clamp has good purchase on the bottom of the rain gutter. Tighten the nut to a torque rating of about 150 inch pounds, or until the rain gutter of the clamp or the tongue of the Foot begin to deform. **Do not overtighten.**



THAT'S IT, YOUR CLAMP&LOCK LADDER RACK INSTALLATION IS COMPLETE.

DON'T FORGET TO REMIND THE END-USER TO MAKE FIELD ADJUSTMENTS AS NECESSARY TO PROPERLY SECURE THE LADDER.

STEP 12

If your rack was assembled off the van you can now install it per **STEP 1**. Be certain the rack cross bows (-001) are square per **[DIAGRAM 5a]** before tightening bolts as binding may occur if rack is out of square. Make sure the gutter mount (-044) is properly seated in rain gutter channel before tightening gutter clamp (-041). Do not over-tighten clamp. A torque rating of 150 inch-pounds is suggested as deformation of clamp and gutter may occur.

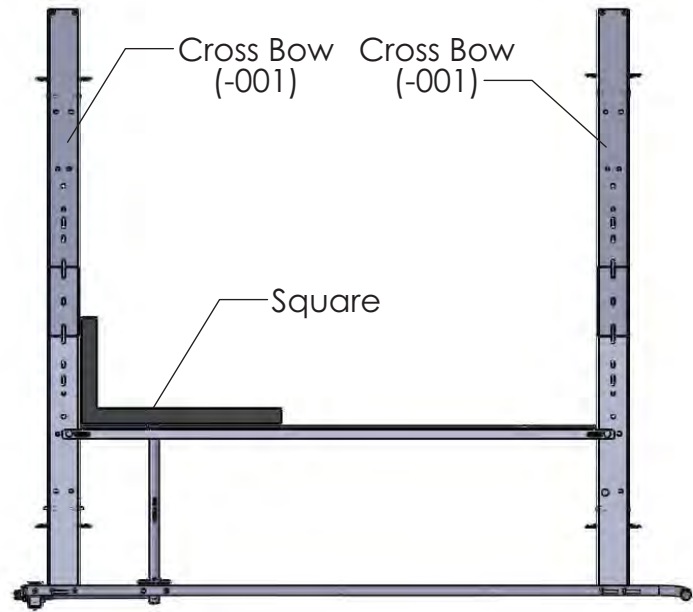


DIAGRAM 5a