

# STORM⚡TOP

## MODEL ST-8200-S

### Standard Storm-Top Cover Assembly Instructions

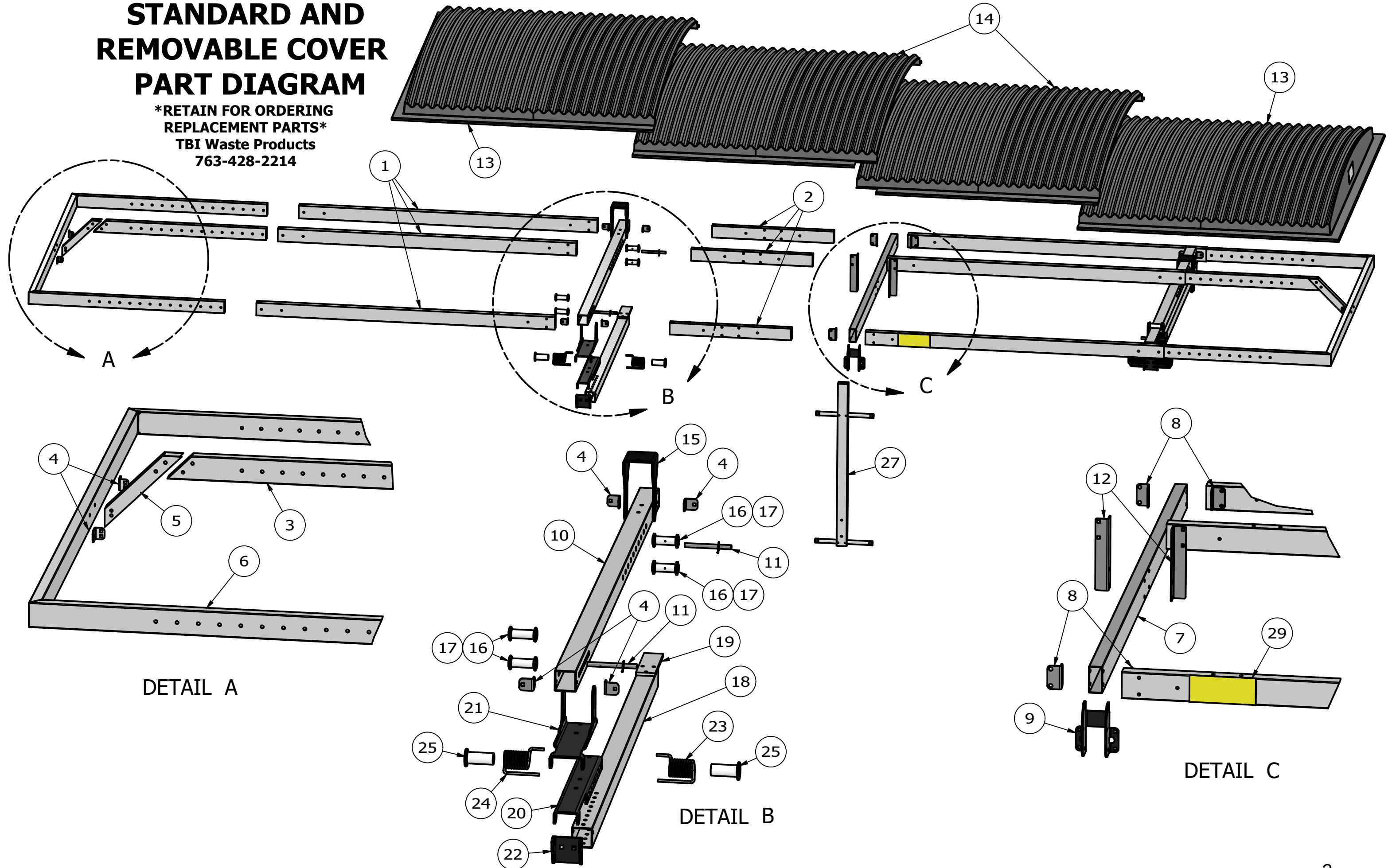
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# STORM-TOP STANDARD AND REMOVABLE COVER PART DIAGRAM

\*RETAIN FOR ORDERING  
REPLACEMENT PARTS\*  
TBI Waste Products  
763-428-2214



# STORM-TOP COVER

## PART DIAGRAM

**\*RETAIN FOR ORDERING REPLACEMENT PARTS\***

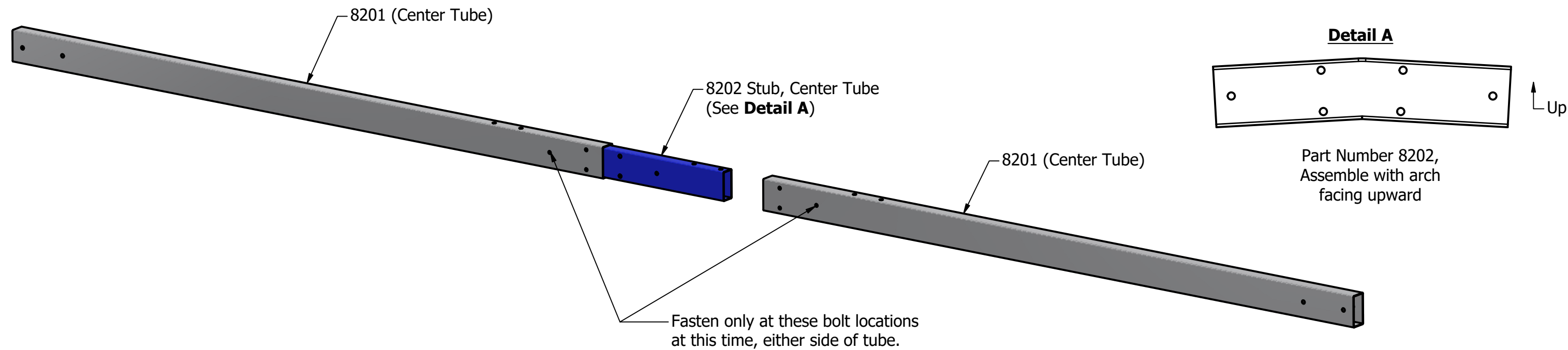
**TBI Waste Products**

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| PARTS LIST |     |             |                               |
|------------|-----|-------------|-------------------------------|
| ITEM       | QTY | PART NUMBER | DESCRIPTION                   |
| 1          | 6   | 8201        | Center Tube                   |
| 2          | 3   | 8202        | Stub Tube                     |
| 3          | 2   | 8204        | Header End Tube               |
| 4          | 12  | 8207        | Angle Bracket                 |
| 5          | 2   | 8210        | Header End Support            |
| 6          | 2   | 8203        | End Tube                      |
| 7          | 1   | 8214        | Center X-Tube                 |
| 8          | 4   | 8251        | Angle Bracket                 |
| 9          | 1   | 8102        | Handle Bracket                |
| 10         | 2   | 8205        | Roller Tube                   |
| 11         | 4   | 8215        | Stop Pin                      |
| 12         | 2   | 8211        | Middle Header Support         |
| 13         | 2   | 8253        | Cover, End                    |
| 14         | 2   | 8254        | Cover, Middle                 |
| 15         | 2   | 8112        | Roller Retainer Bracket       |
| 16         | 8   | 3102        | Spool Roller                  |
| 17         | 8   | 8527        | Roller Pin                    |
| 18         | 2   | 8114        | Arm Tube                      |
| 19         | 2   | 8117        | Arm Front Extension           |
| 20         | 2   | 8111        | Rear Arm Extension            |
| 21         | 2   | 8110        | Rear Arm Brace                |
| 22         | 2   | 8113        | Hinge Bracket                 |
| 23         | 2   | 8118        | Torsion Spring, RH            |
| 24         | 2   | 8119        | Torsion Spring, LH            |
| 25         | 4   | 8120        | Torsion Spring Bushing Insert |
| 26         | 2   | 8125        | Torsion Spring Link           |
| 27         | 1   | 8230        | Handle Assembly               |
| 28         | 1   |             | Hardware Kit                  |
| 29         | 1   |             | Label Kit                     |

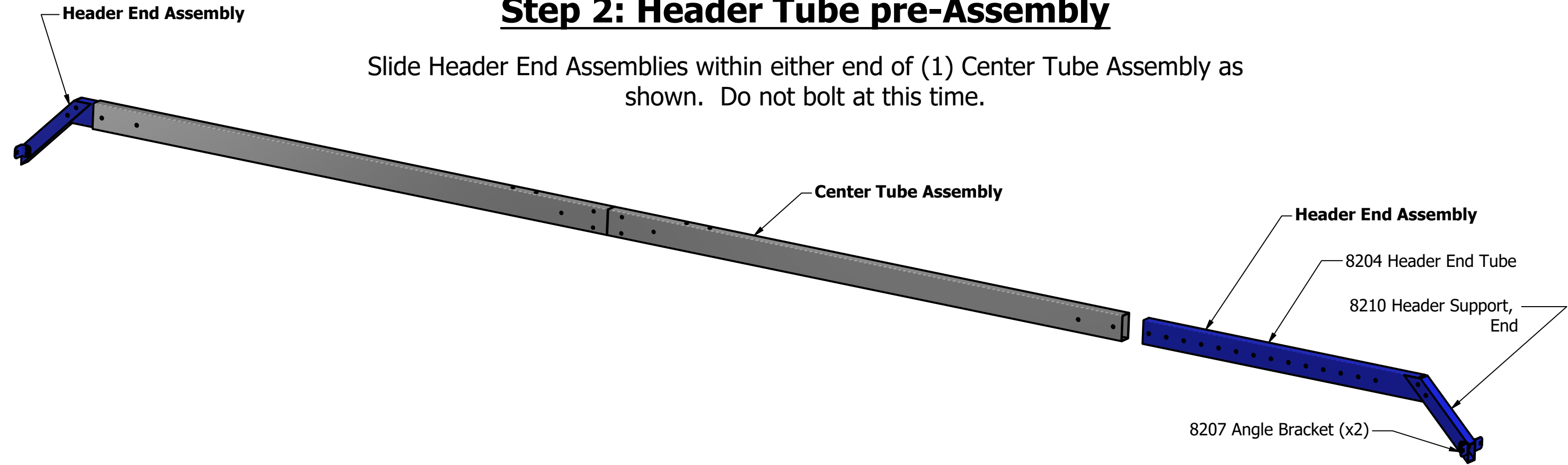
# Step 1: Center Tube Assembly (x3)

Lie components on a flat surface. Assemble Center Tubes (8201) to the Stub Connector (8202) using (4) 3/8 x 1" bolts at the locations shown.



# Step 2: Header Tube pre-Assembly

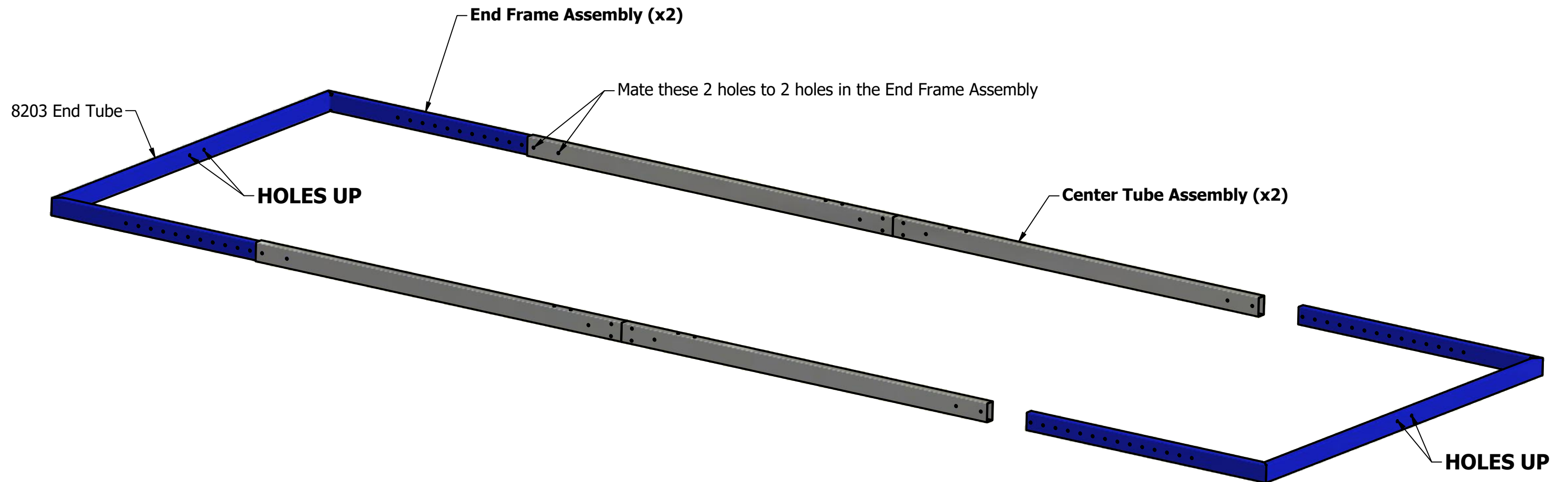
Slide Header End Assemblies within either end of (1) Center Tube Assembly as shown. Do not bolt at this time.



### **Step 3: Cover Frame Assembly**

Measure outside length of the container on which the cover is to be installed. You will want the Cover Frame to be at least this length or longer.

Equally install the End Frame Assemblies into the Center Tube Assemblies as shown. It is acceptable to have one End Frame Assembly extending 3" more than the other in order to reach the length desired. When properly adjusted, the 2 holes at either end of each Center Tube Assembly will closely align with 2 holes of the End Frame Assemblies. Do not bolt at this time.



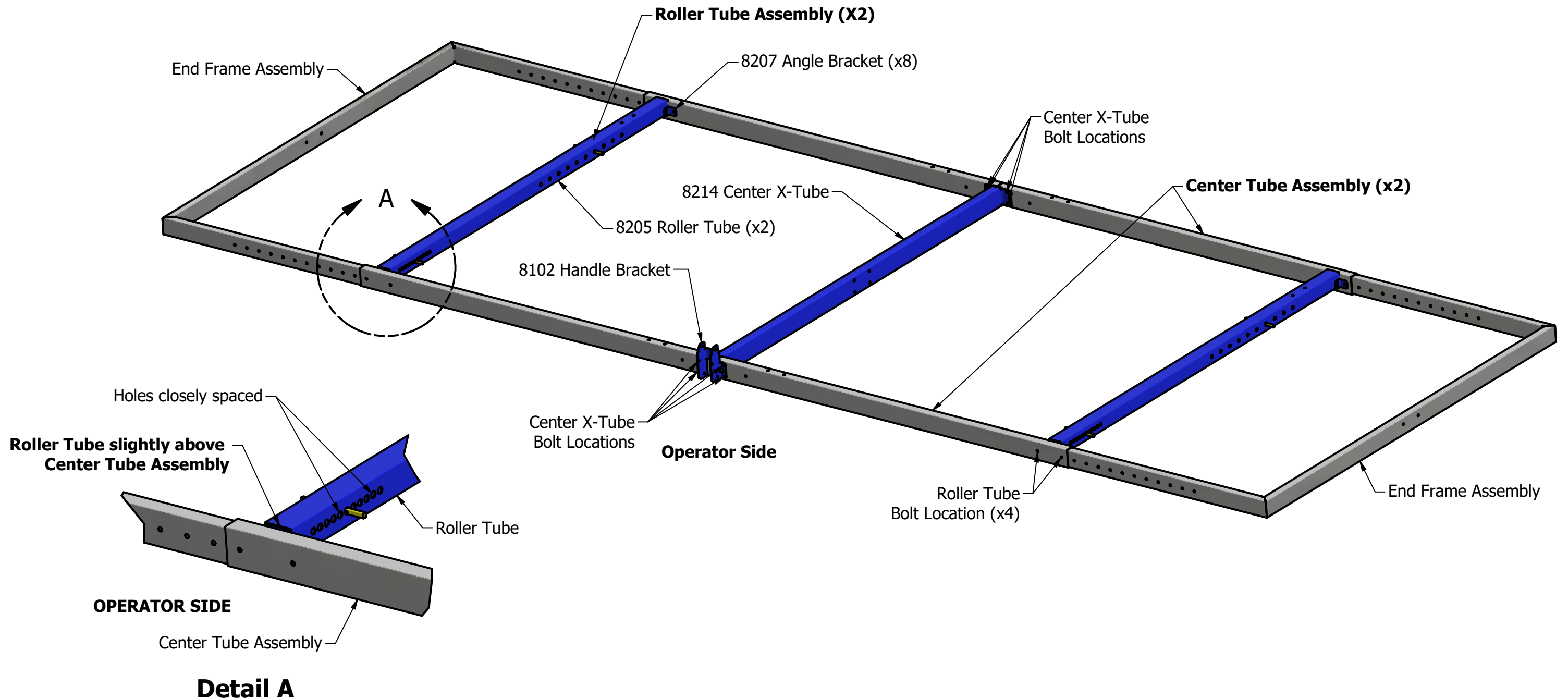
## Step 4: Roller and Center Tube Installation

Upon a flat surface with frame adjusted per previous step, bolt the Roller Tubes (8205) with Angle Brackets (8207) to the ends of the Center Tube Assemblies as shown. **\*Note orientation (see detail A)\*** Use (4) 3/8 x 3" bolts and flange nuts per Roller Tube Assembly, flange nuts to the inside of the frame assembly.

Install Center X-Tube (8214) and Handle Bracket (8102) to the center of the (2) Center Tube Assemblies using (8) 3/8 x 3" bolts and flangenuts, flangenuts to the inside of the frame.

**\*Note: Handle Bracket must coincide with Roller Tube Assembly orientation\***

See below for bolt locations. Tighten all fasteners.



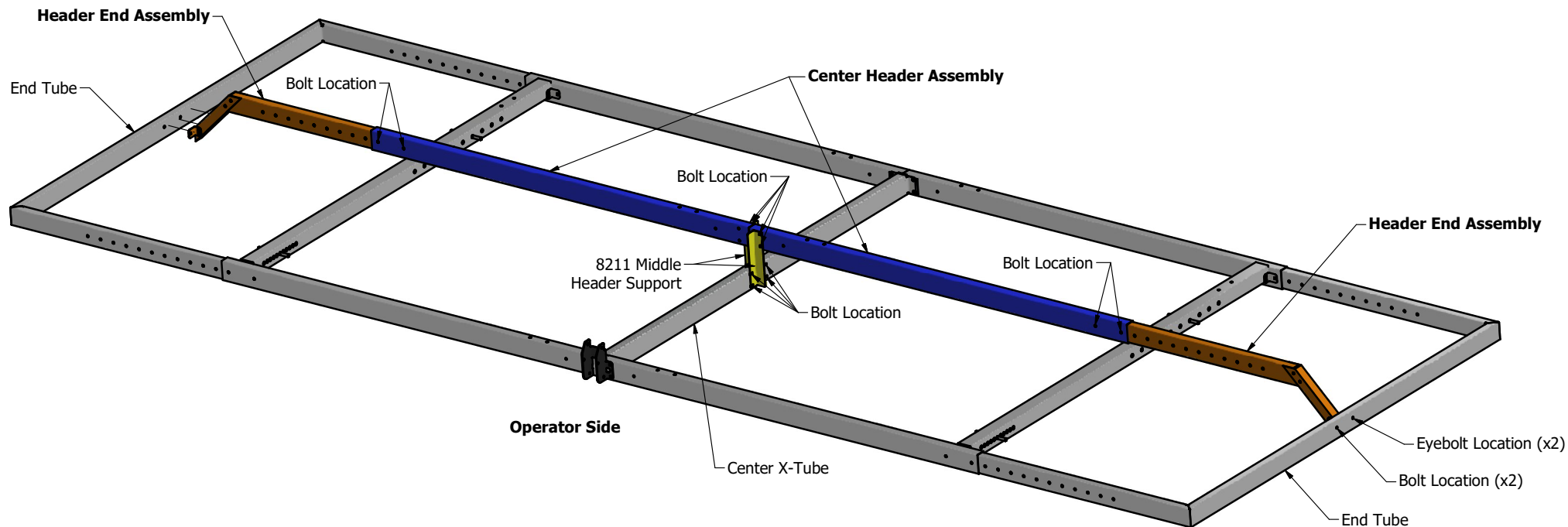
## **Step 5: Header Assembly Installation**

Slide the Header End Assemblies out from the Center Header Assembly until they meet the End Tubes. Bolt Header End Assemblies to End Tubes using (2) 3/8 x 3" bolts and flange nuts, and (2) 3/8" eyebolts and flange nuts to the inside of frame as shown below.

Attach one end of the Middle Header Supports (8211) to the Center X-Tube with (4) 3/8 x 3" bolts and flangenuts. Attach upper end of Middle Header Supports to the Header Tube Assembly using (4) 3/8 x 3" bolts.

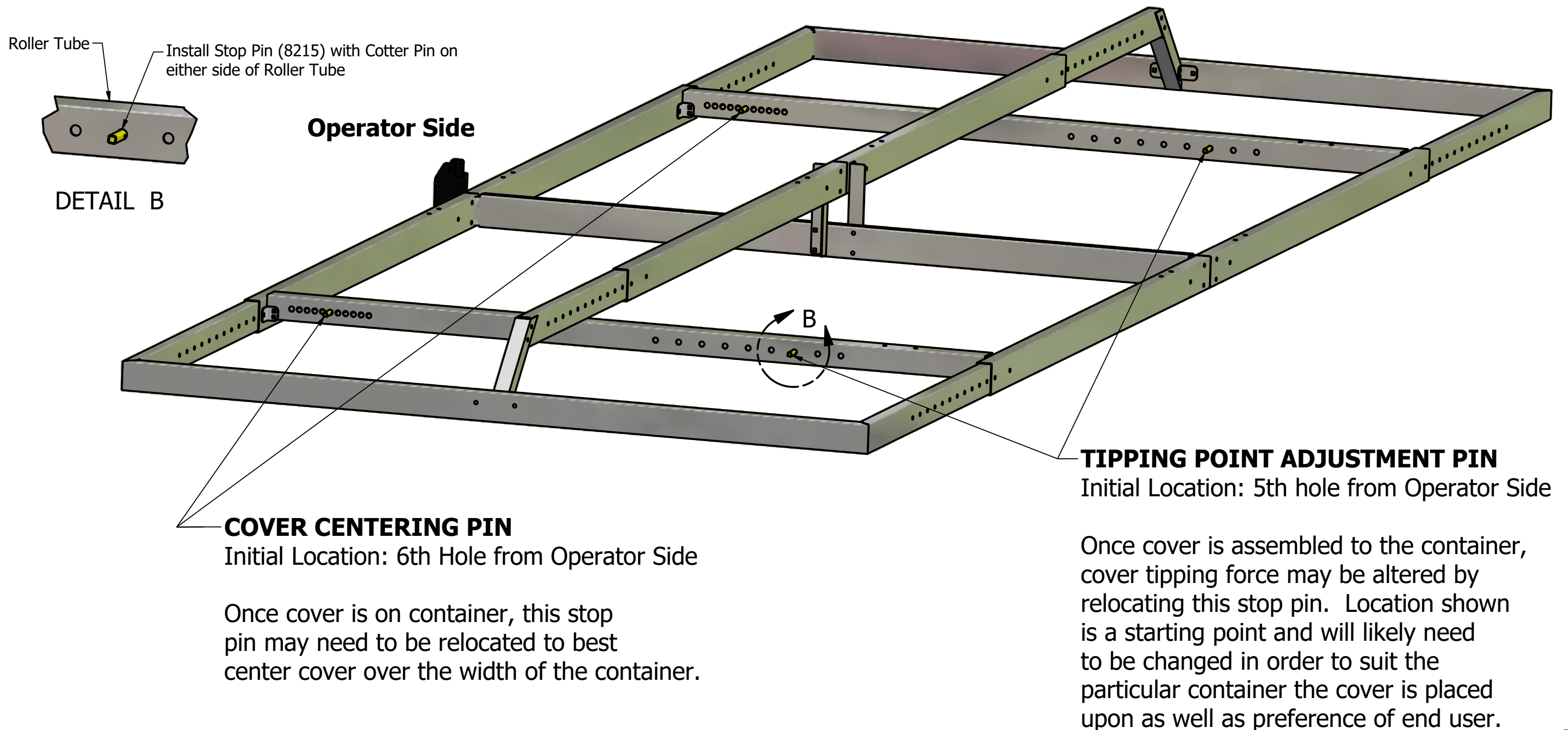
Bolt Header End Assemblies to Center Header Assembly with (4) 3/8 x 3" bolts and flangenuts.

See below for bolt locations. Tighten all fasteners. **Center Header Assembly bolts must be completely tightened to prevent sag at seam.**



## Step 6: Stop Pin Placement

**WARNING: STOP PINS MUST BE IN PLACE BEFORE ATTEMPTING TO OPERATE COVER. DO NOT PROCEED UNTIL PINS ARE IN PLACE!**



## Step 7: Plastic Cover Assembly

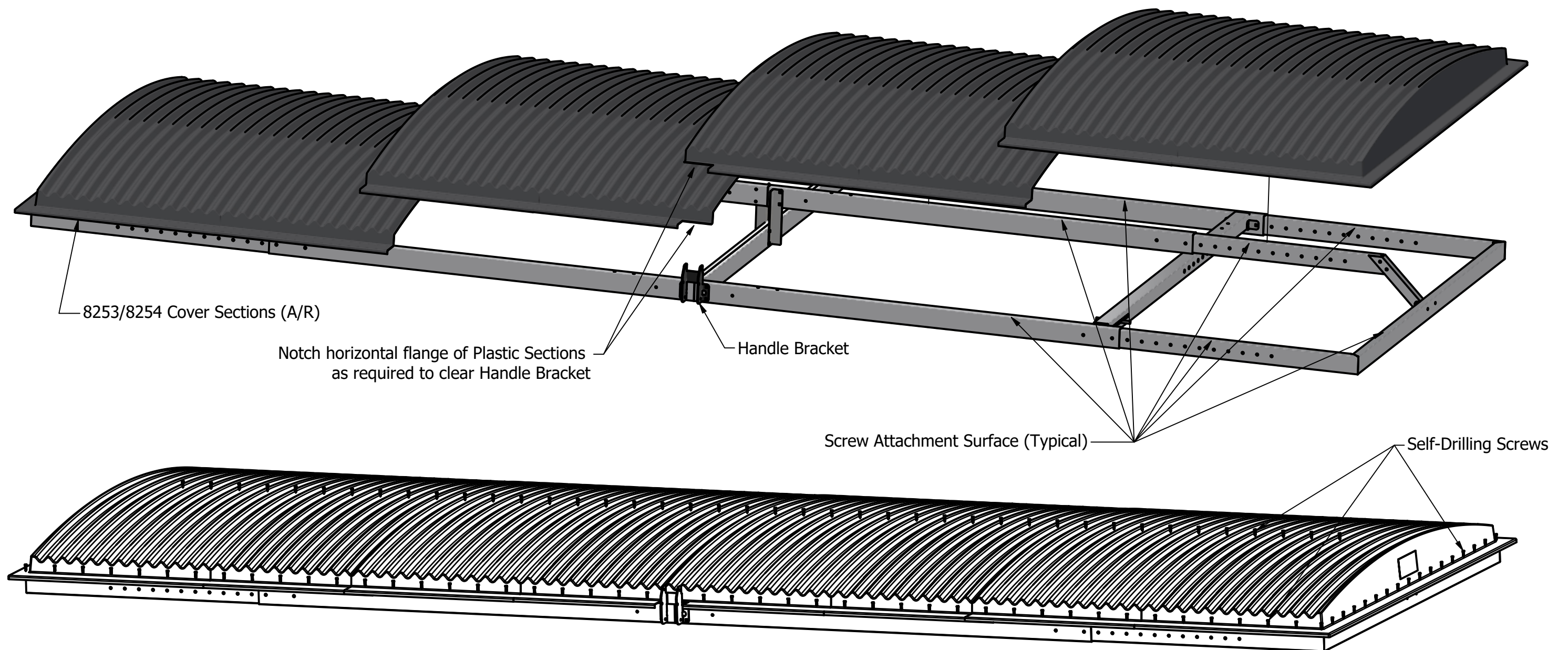
Position the Plastic Sections (8253/8254) over the frame (total number of pieces may be less than shown for shorter covers).

**\*NOTE\* THE WIDER END OF EACH SECTION WILL FIT OVER TOP OF THE NARROWER END OF THE NEXT PIECE.**  
**Due to the variations in the plastic molding process, if an interference should occur, place piece to the underside.**

Space sections evenly end-to-end and also side-to-side. Notch the plastic to clear the Handle Bracket.

Using the self-drilling screws provided, secure the sections to the top perimeter of the tube frame assembly.  
Space screws 6" apart. Add more where required.

Lastly, secure the plastic sections to the header assembly of the frame (every other corrugation at dimples, 6" screw spacing).

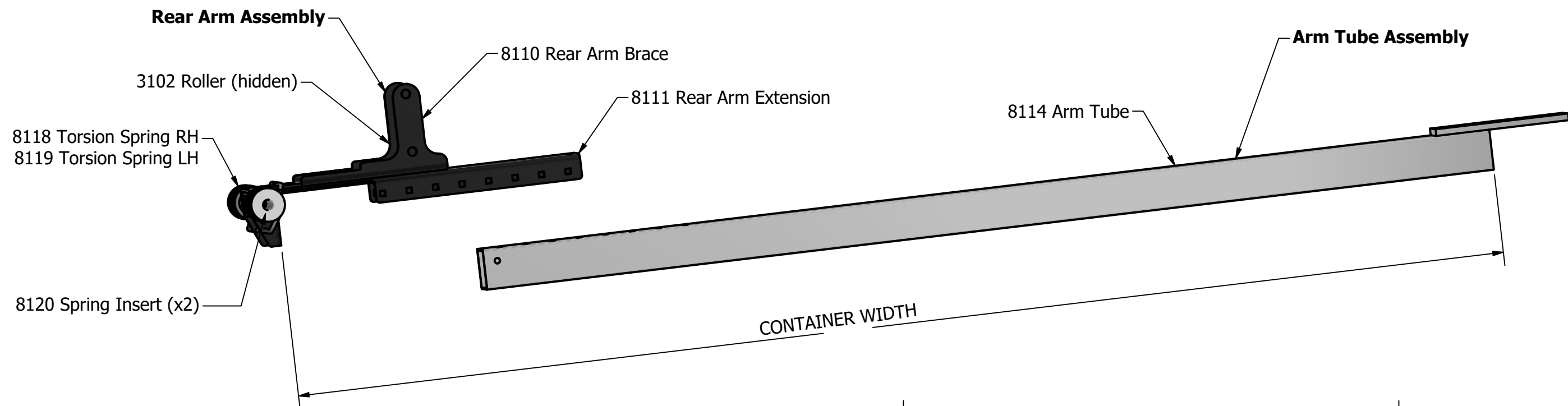


## Step 8: Arm Assembly (x2)

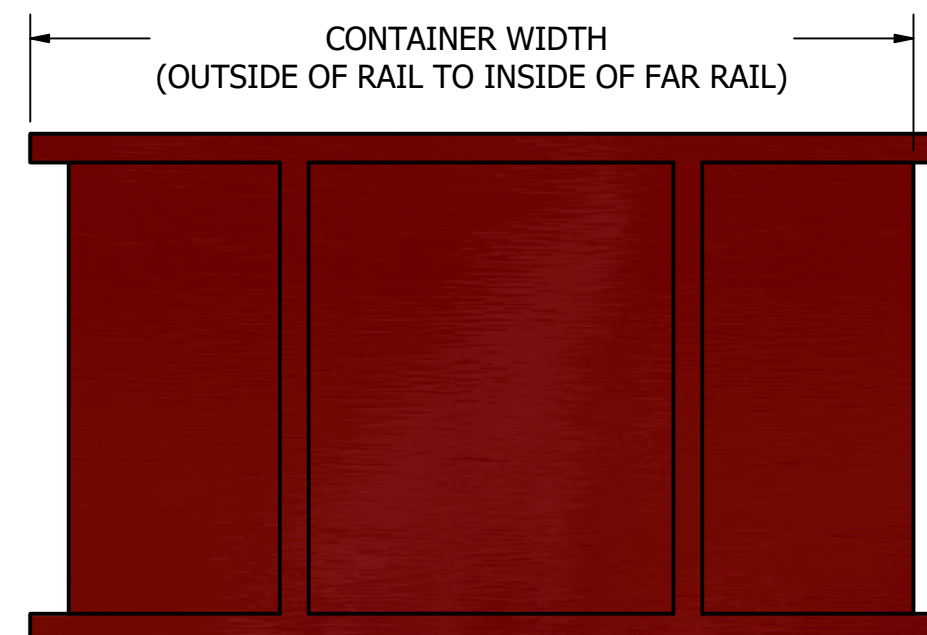
Measure the width of the container being covered (the outside of one rail to the inside of the other).

Using (2) 3/8 x 4" bolts and flange nuts, assemble the Rear Arm Assembly to the Arm Tube Assembly. Match the measurement to the container width or next increment smaller. **Note:** On narrow width containers, the (2) 3/8 x 1 1/2" carriage bolts holding the Rear Arm Assembly together will need to be replaced with (2) 3/8 x 4" carriage bolts.

Install a Roller (3102) into the lower hole of the Rear Arm Extension (8111) using a 5/8" pin (8527) and two retaining clips. Do not install a Roller into the upper hole at this time.



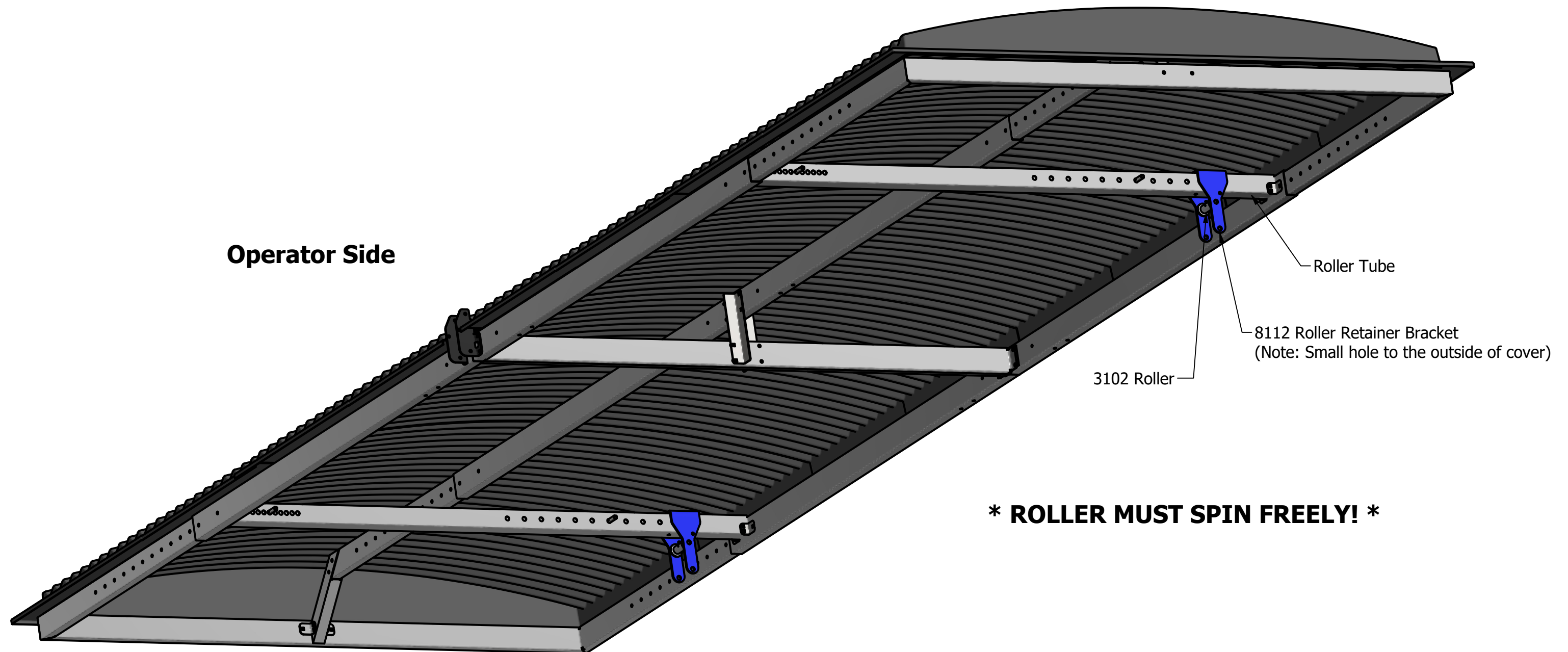
**\* ROLLER MUST SPIN FREELY \***



## Step 9: Roller Retainer Bracket Installation (x2)

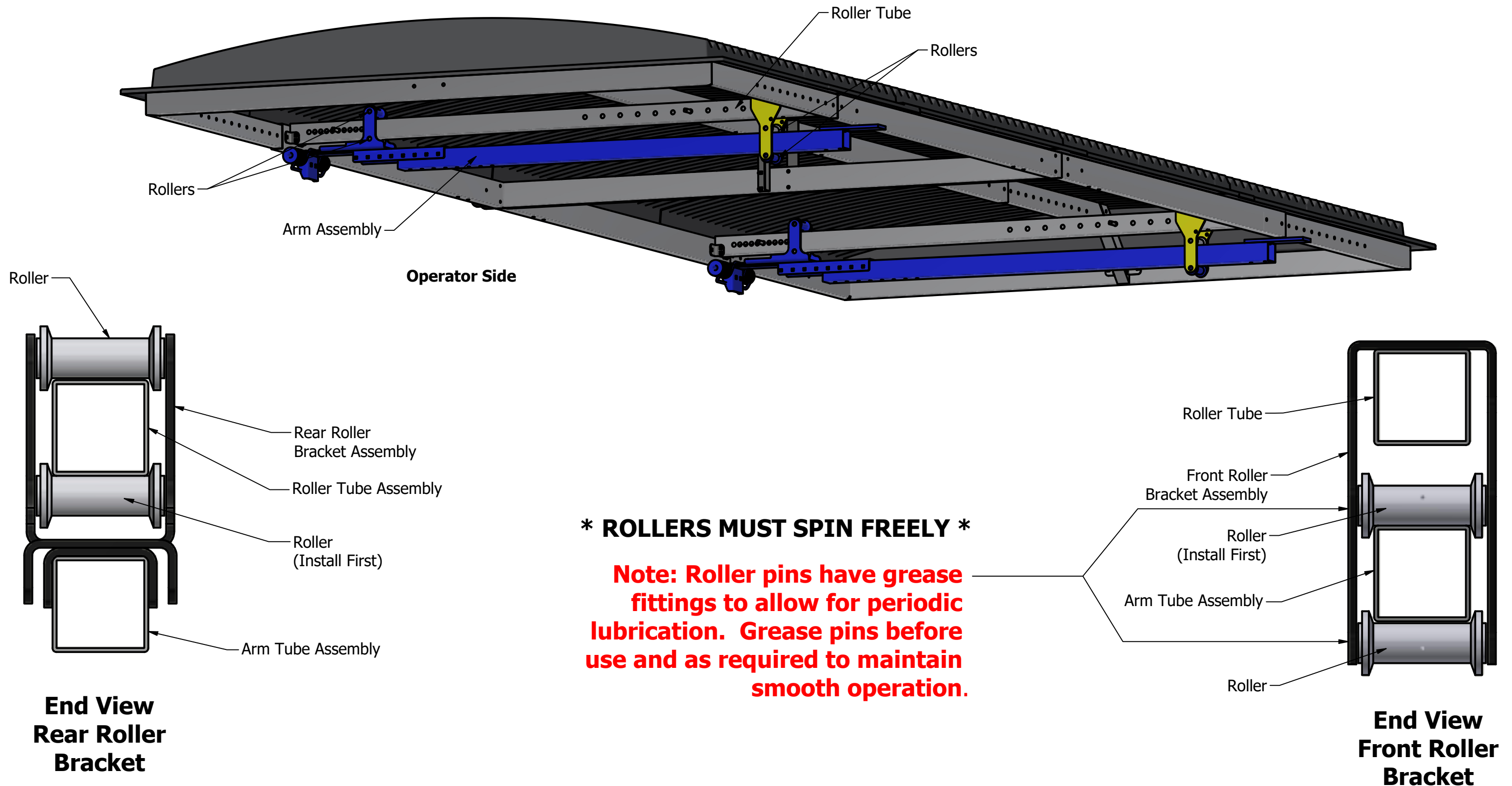
Securely elevate the cover and attach the Roller Retainer Bracket (8112) to the Roller Tube as shown using (2) 3/8 x 4" carriage bolts and flange nuts.

Attach a Roller (3102) into the upper hole of the Roller Retainer Bracket using a 5/8" pin (8527) and two retaining clips. Do not install a Roller into the lower hole at this time.



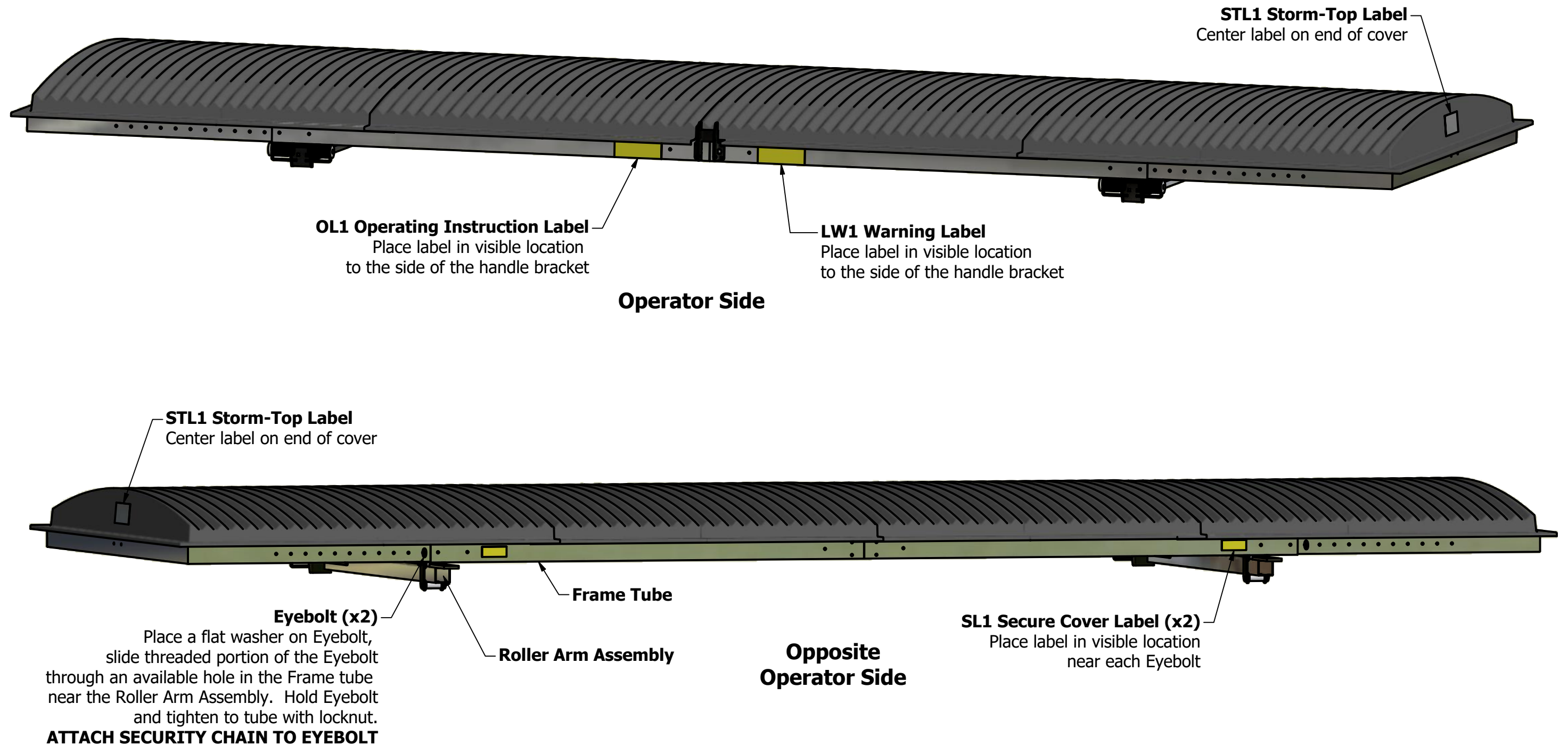
## Step 10: Arm Assembly Installation (x2)

Lift the Arm Assembly to the Roller Tube until the Rollers previously installed are in contact with the Tubes. Secure Arm Assembly into place with the remaining (2) Rollers (3102) and 5/8" pins (8527) and retaining clips.



## Step 11: Warning Label Installation

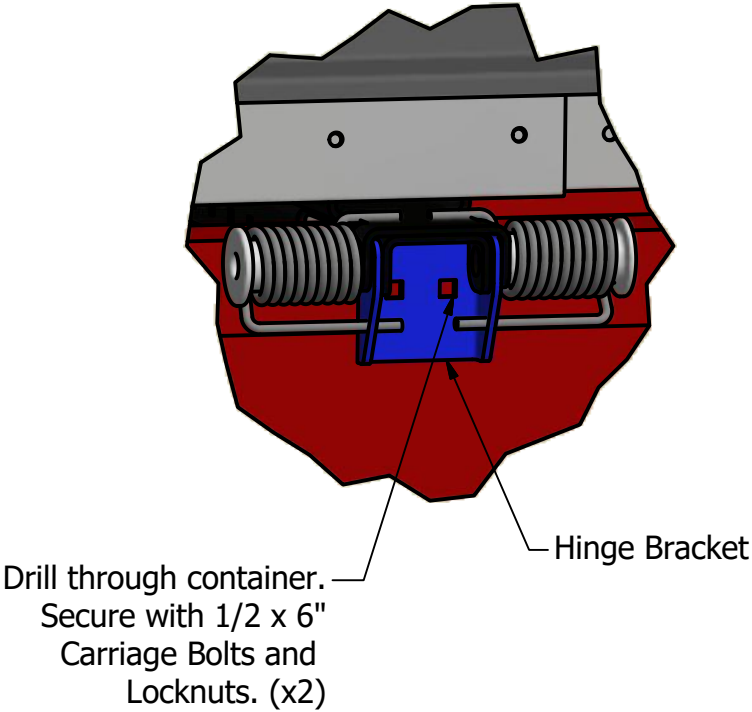
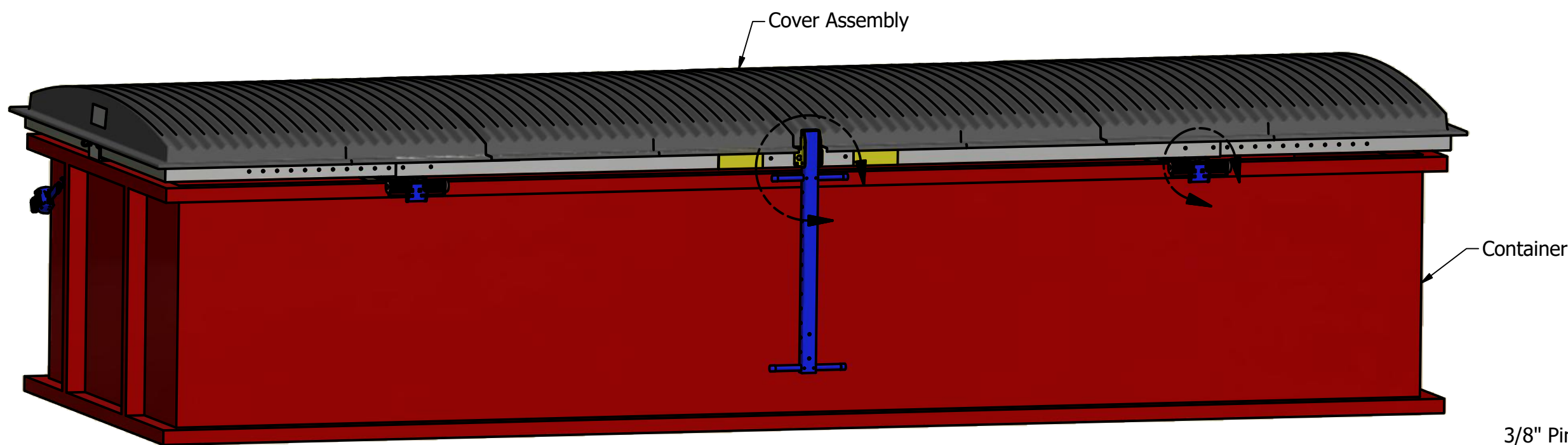
Place labels and eyebolts as shown.



# Step 12: Cover/Container Attachment

Center Cover Assembly on Container, noting direction that is desired to operate vs. direction container gate swings (typically mounted opposite unless unusual circumstance). Once positioned, drill (4) 1/2" diameter holes through container rail using holes in Hinge Brackets as a template. Secure in place with 1/2" hardware.

Adjust Stop Pins (see Step 4) to set tipping force required to tilt cover and to set closed position of cover over container.

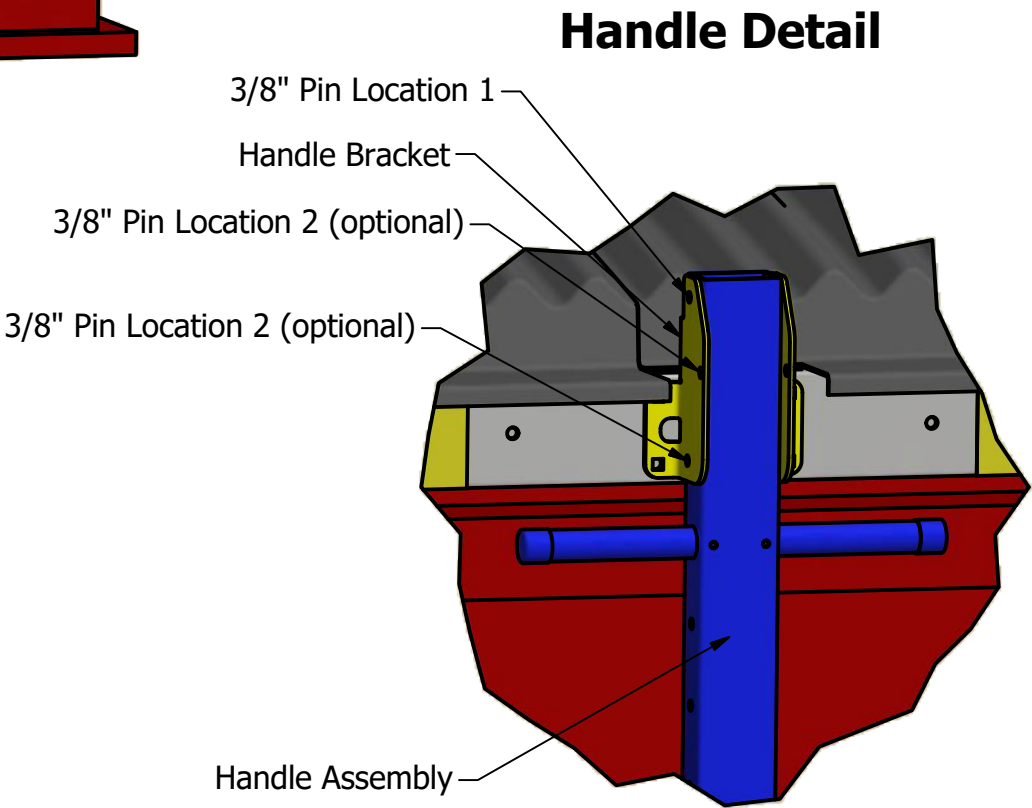


Hinge Detail

# Step 13: Handle Installation

The Handle Assembly may be attached with a single 3/8" Pin Lock through Location 1 of the Handle Bracket and the first hole location of the Handle Assembly. This will allow the Handle Assembly to pivot as the Cover Assembly is operated.

Alternately, at the preference of the operator, the Handle Assembly may be attached in a fixed position through any of its various holes with one 3/8" Pin Lock in Location 1 of the Handle Bracket and a second 3/8" Pin Lock through either of the Handle Bracket locations marked 2 in the Handle Detail.

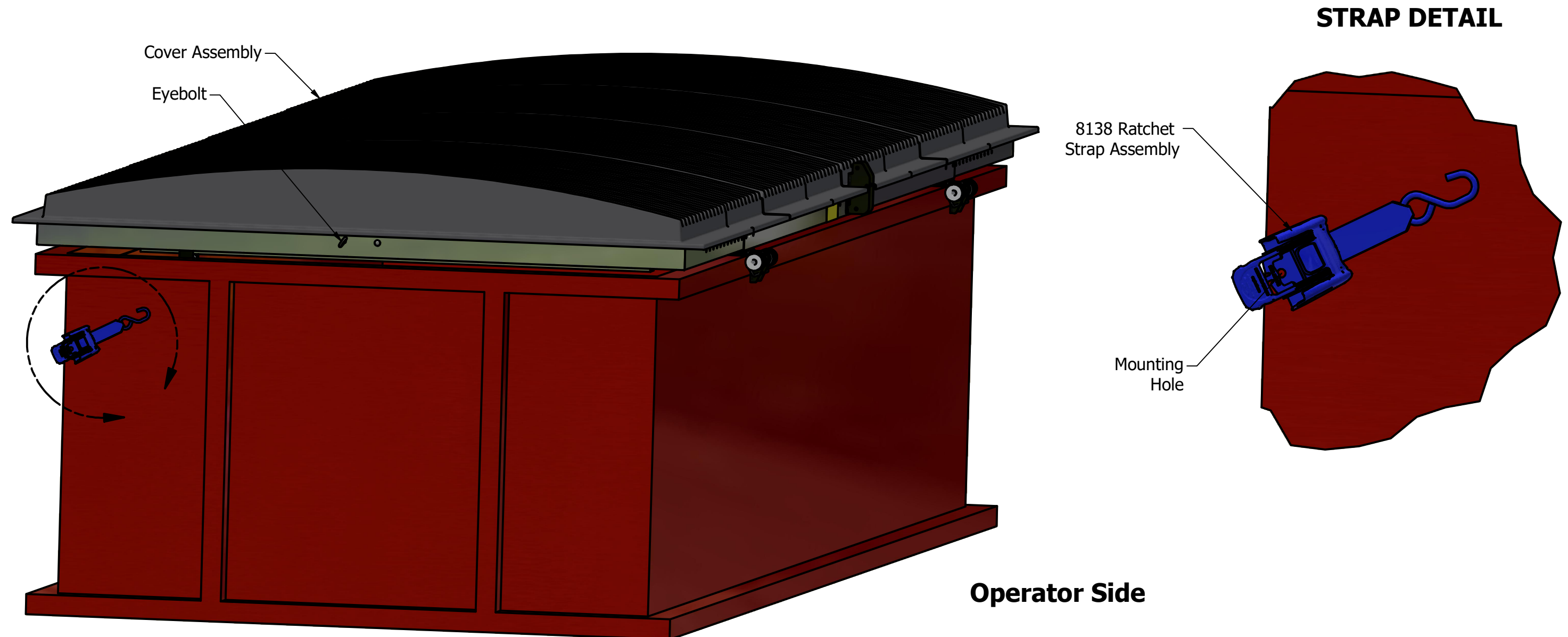


## **Step 14: Ratchet Strap Installation**

Determine location for the Ratchet Strap Assemblies (8138) on either end of the container, opposite the Operator Side. Select an area that is protected from damage, convenient to operate and will allow the Straps to be hooked to the eyebolts of the Cover Frame without being abraded.

Once positions are established, drill a 3/8" diameter hole in container ends at these locations. Attach the Ratchet Strap Assemblies to the container using 3/8" bolts, flat washers and lock nuts.

Ratchet Strap Assemblies are to aid in securing the Cover Assembly to the Container when not in use and during transport.



# STORM TOP

## Model ST-8200-S SAFETY CHECKLIST

**DO NOT OPERATE STORM-TOP COVER BEFORE REVIEWING**

- Make sure all four stop bolts are in place in the roller channels (See Step 6 “WARNING” page)
- Grease roller pins and see that the rollers spin freely
- Make sure all warning labels are in place (See step 11)
- Make sure all nuts/bolts are tightened and securing pins in place

