

STORM⚡TOP

MODEL ST-8200-R

Removable Storm-Top Cover Assembly Instructions

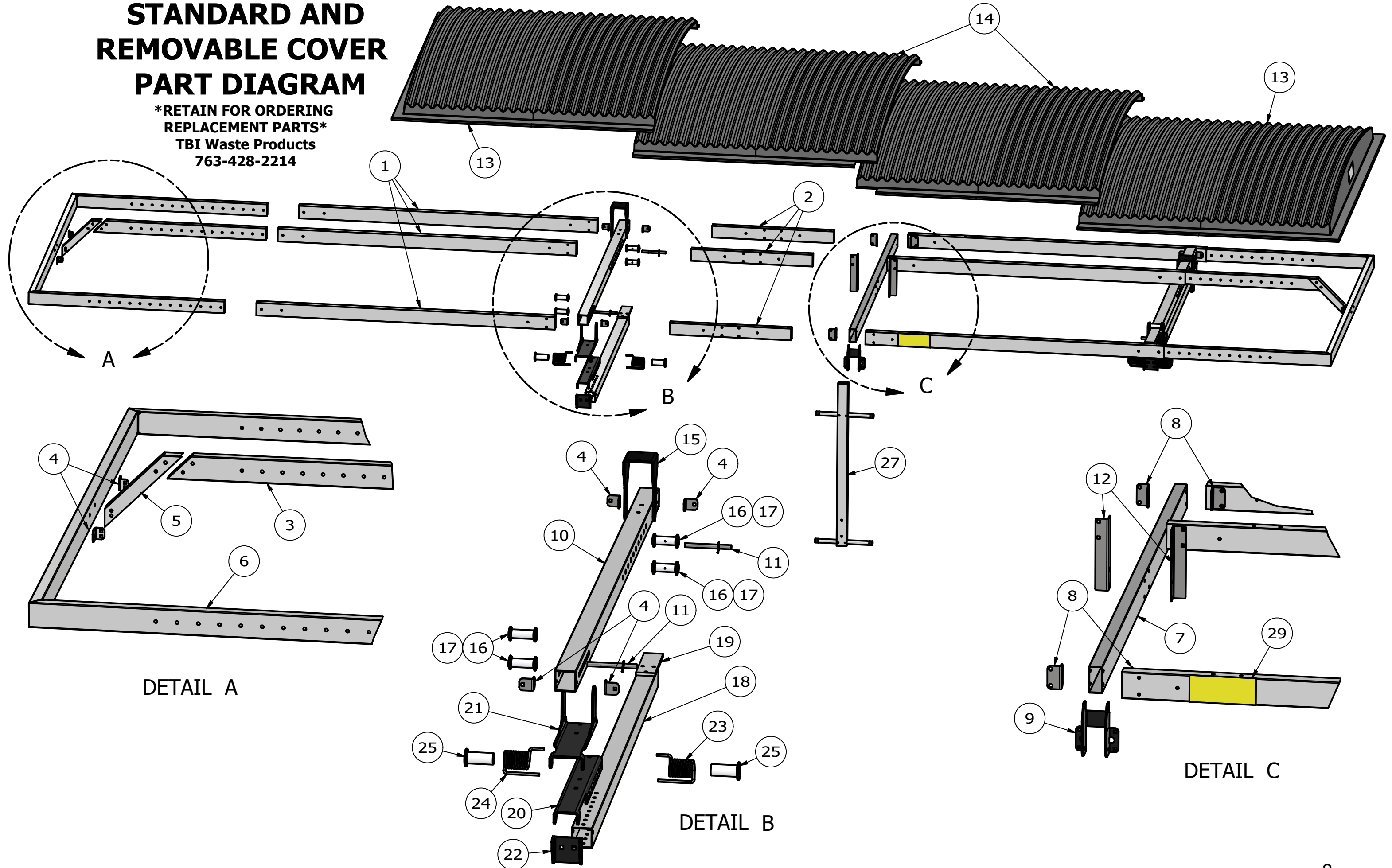
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STORM-TOP STANDARD AND REMOVABLE COVER PART DIAGRAM

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



STORM-TOP COVER

PART DIAGRAM

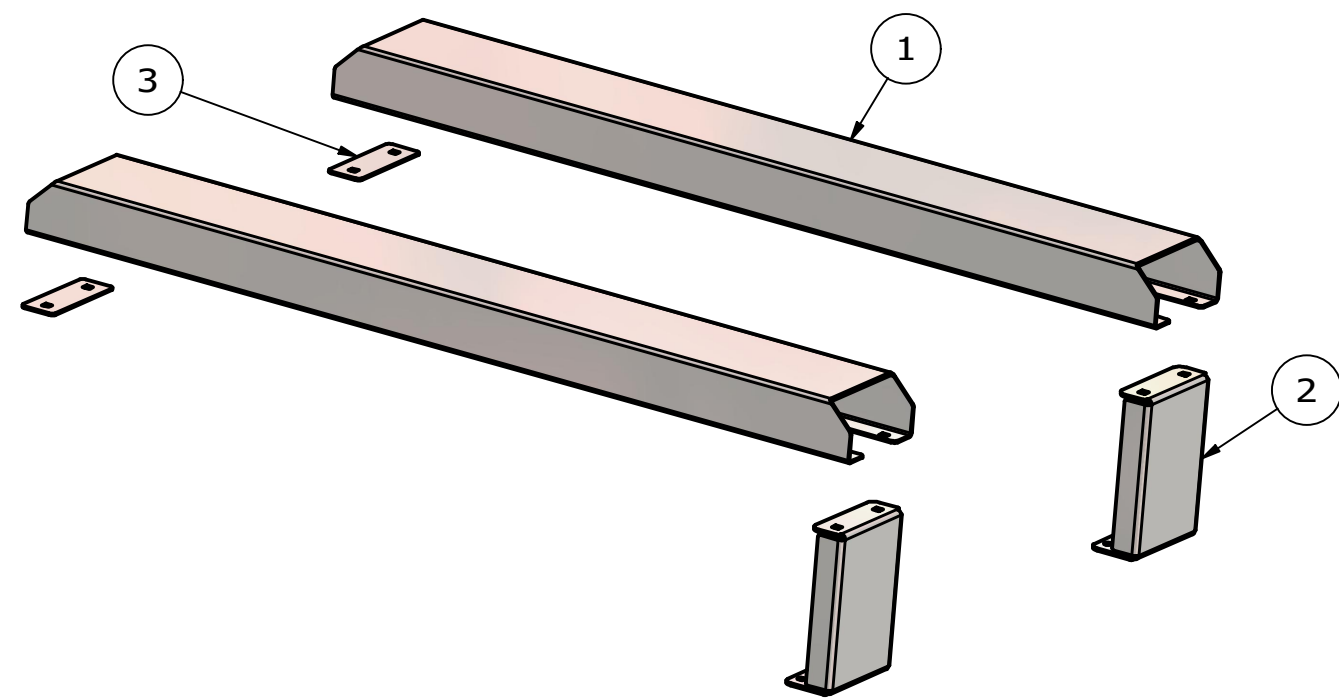
RETAIN FOR ORDERING REPLACEMENT PARTS

TBI Waste Products

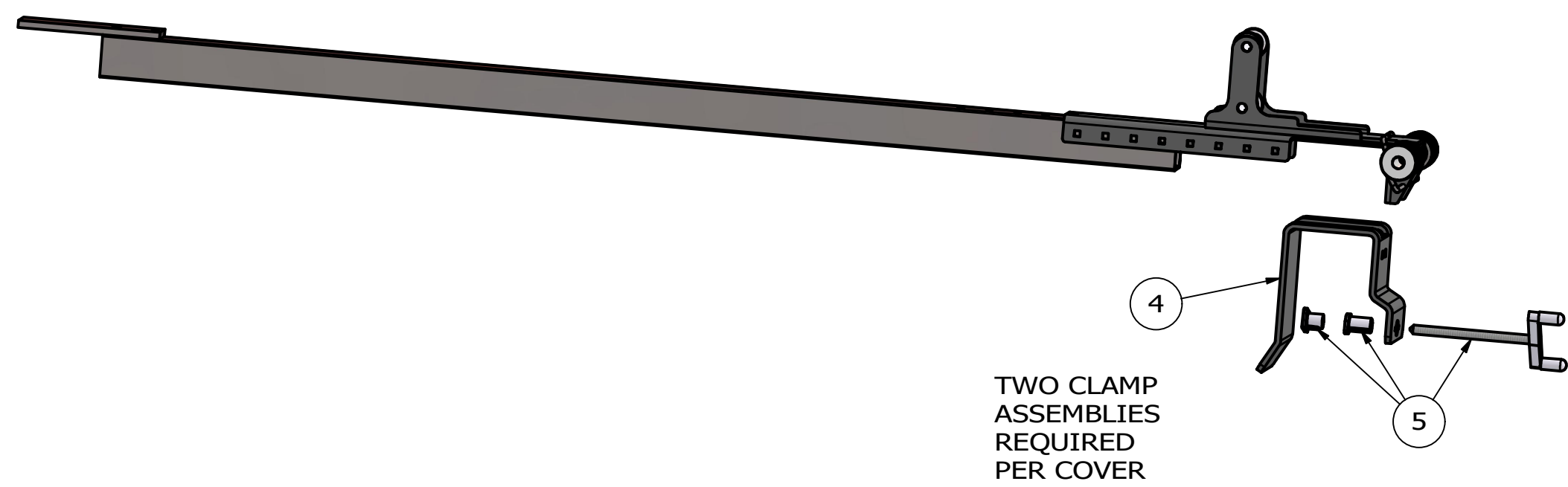
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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	8201	Center Tube
2	3	8202	Stub Tube
3	2	8204	Header End Tube
4	12	8207	Angle Bracket
5	2	8210	Header End Support
6	2	8203	End Tube
7	1	8214	Center X-Tube
8	4	8251	Angle Bracket
9	1	8102	Handle Bracket
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

REMOVABLE STORM-TOP PARTS

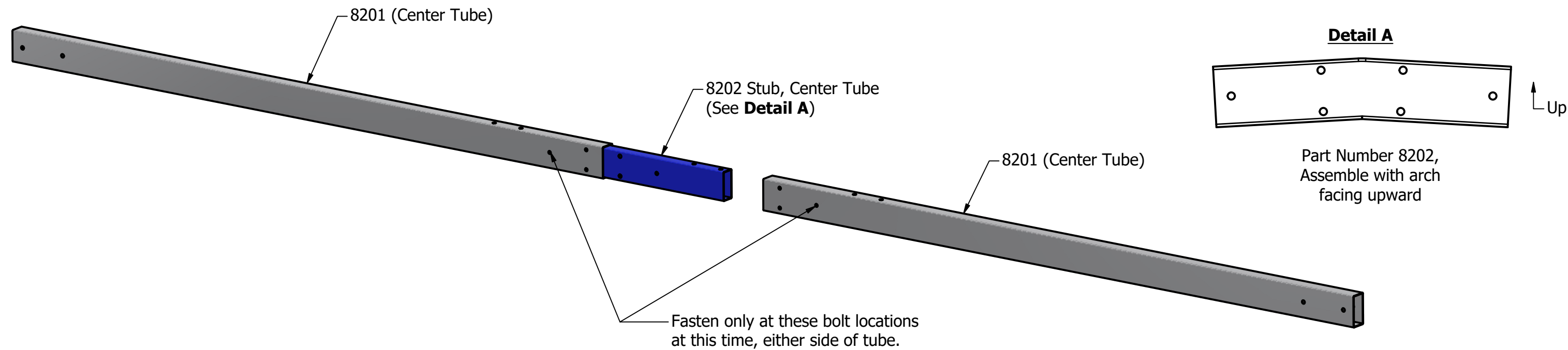


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	8121	Fork Pocket Channel
2	2	8212	Fork Pocket Upright
3	2	8128	Fork Pocket Strap
4	2	3030	Clamp
5	2	3039	Press Clamp



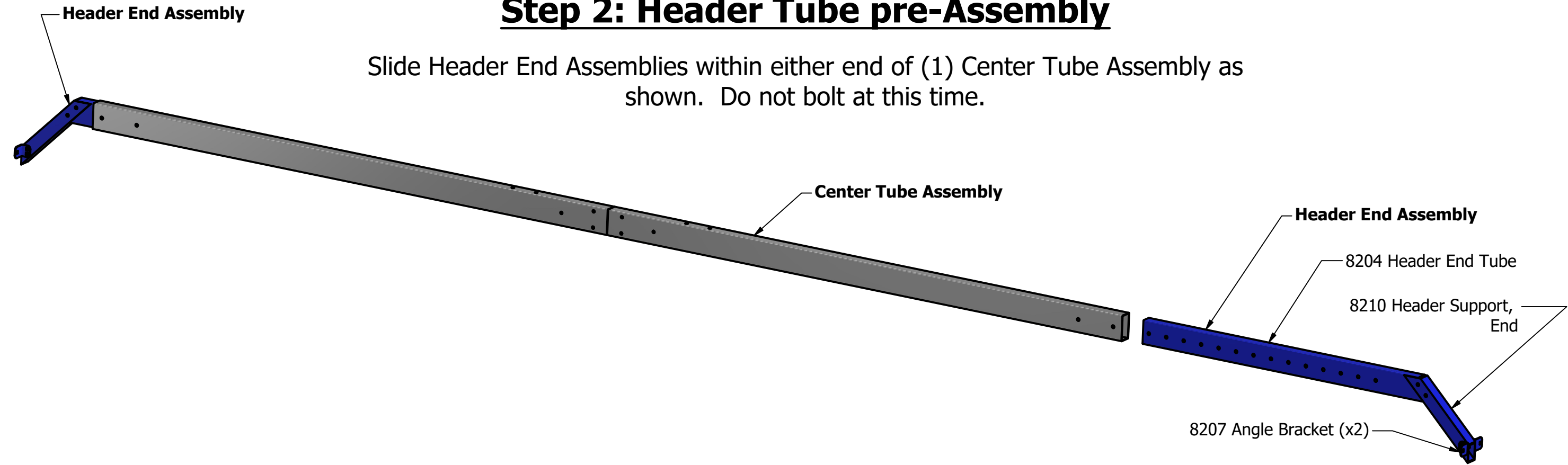
Step 1: Center Tube Assembly (x3)

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

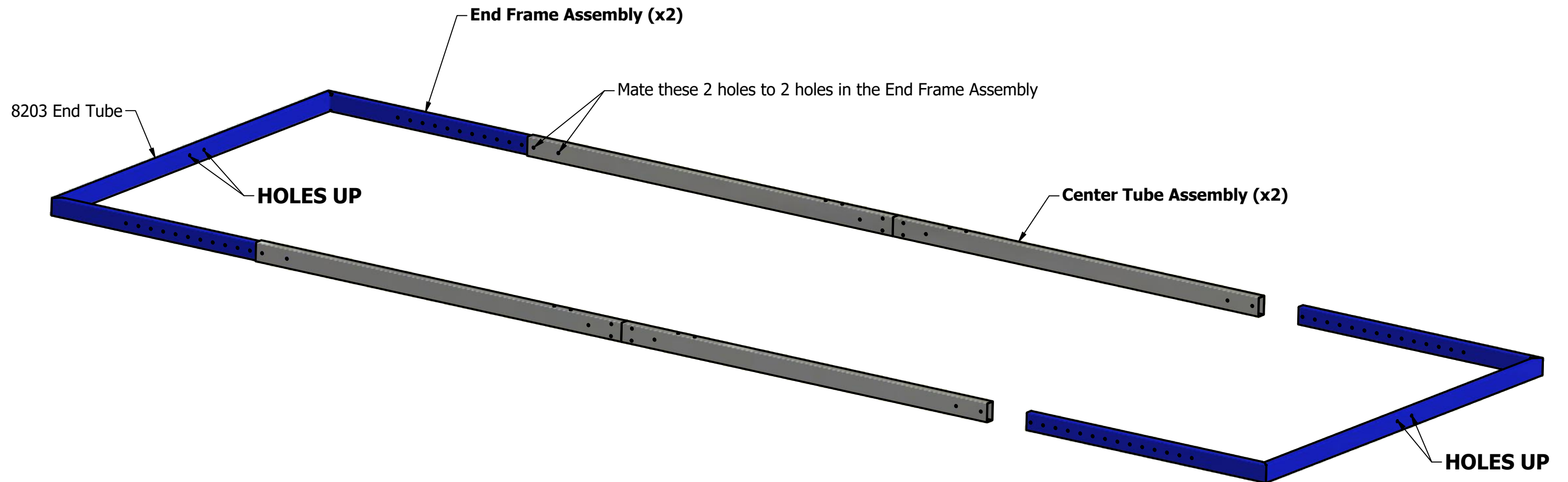
Slide Header End Assemblies within either end of (1) Center Tube Assembly as shown. Do not bolt at this time.



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.



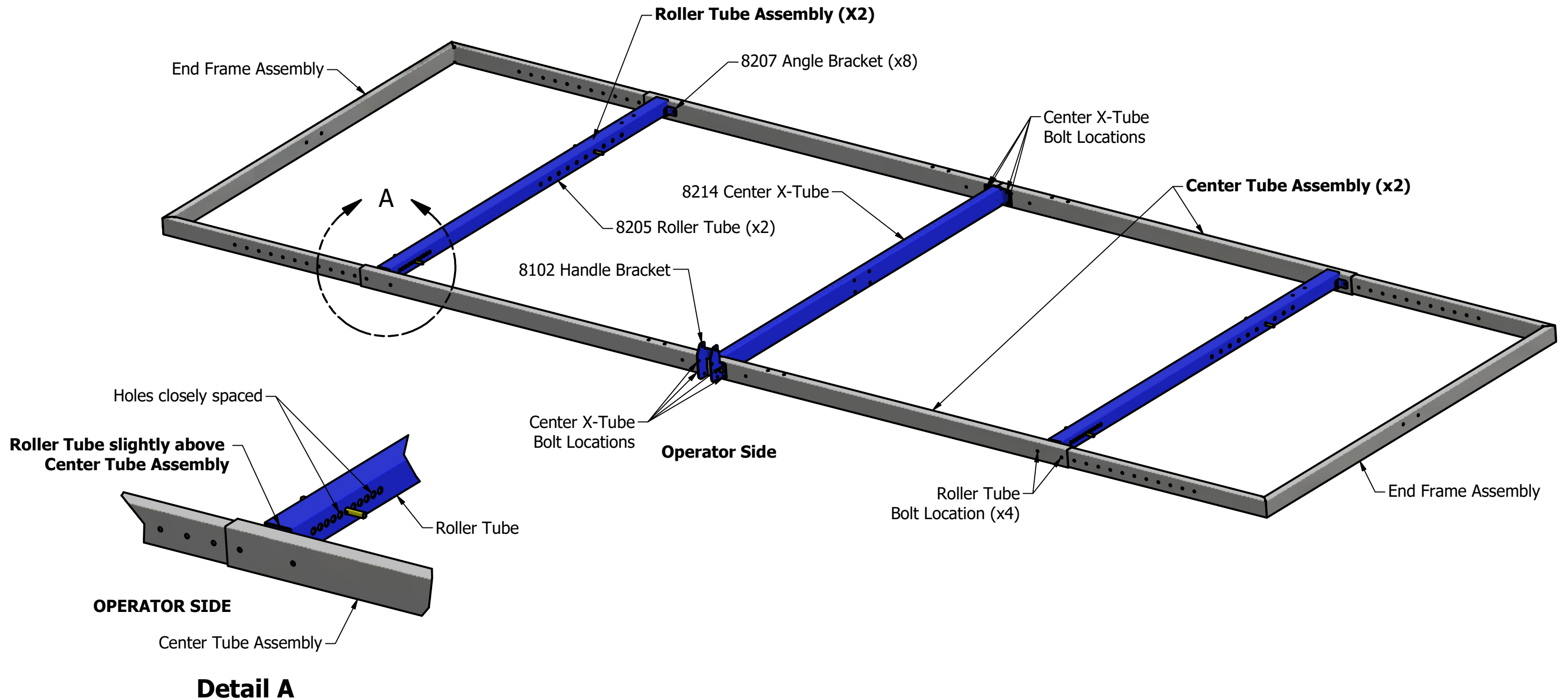
Step 4: Roller and Center Tube Installation

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.



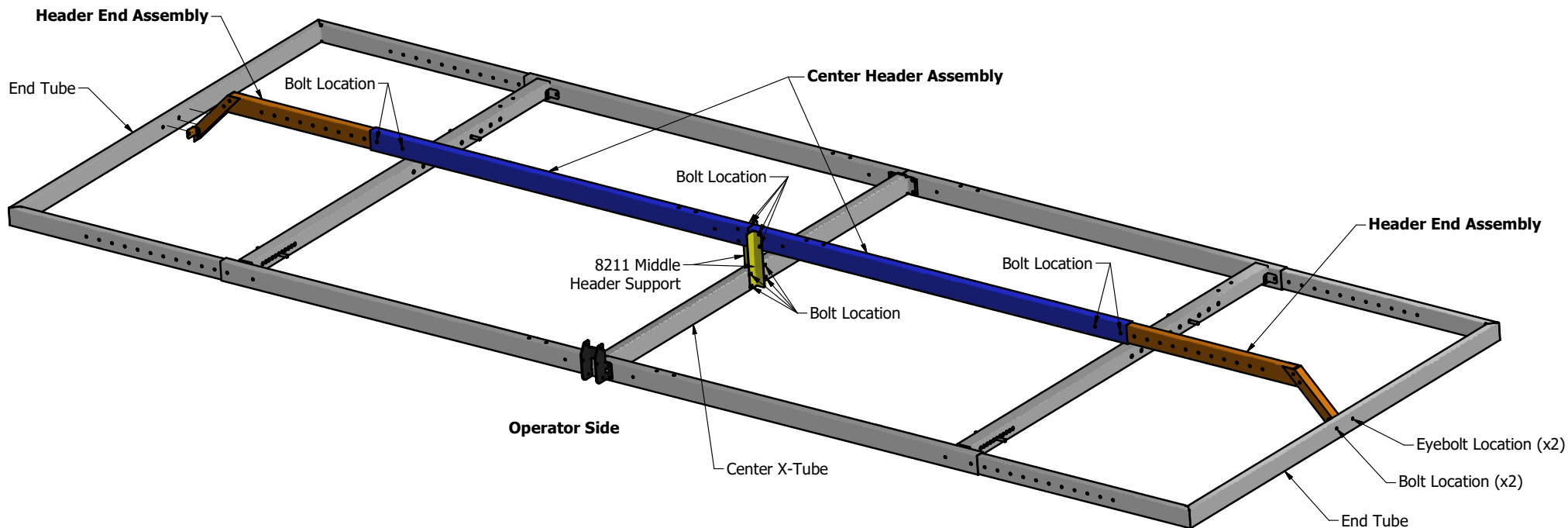
Step 5: Header Assembly Installation

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.

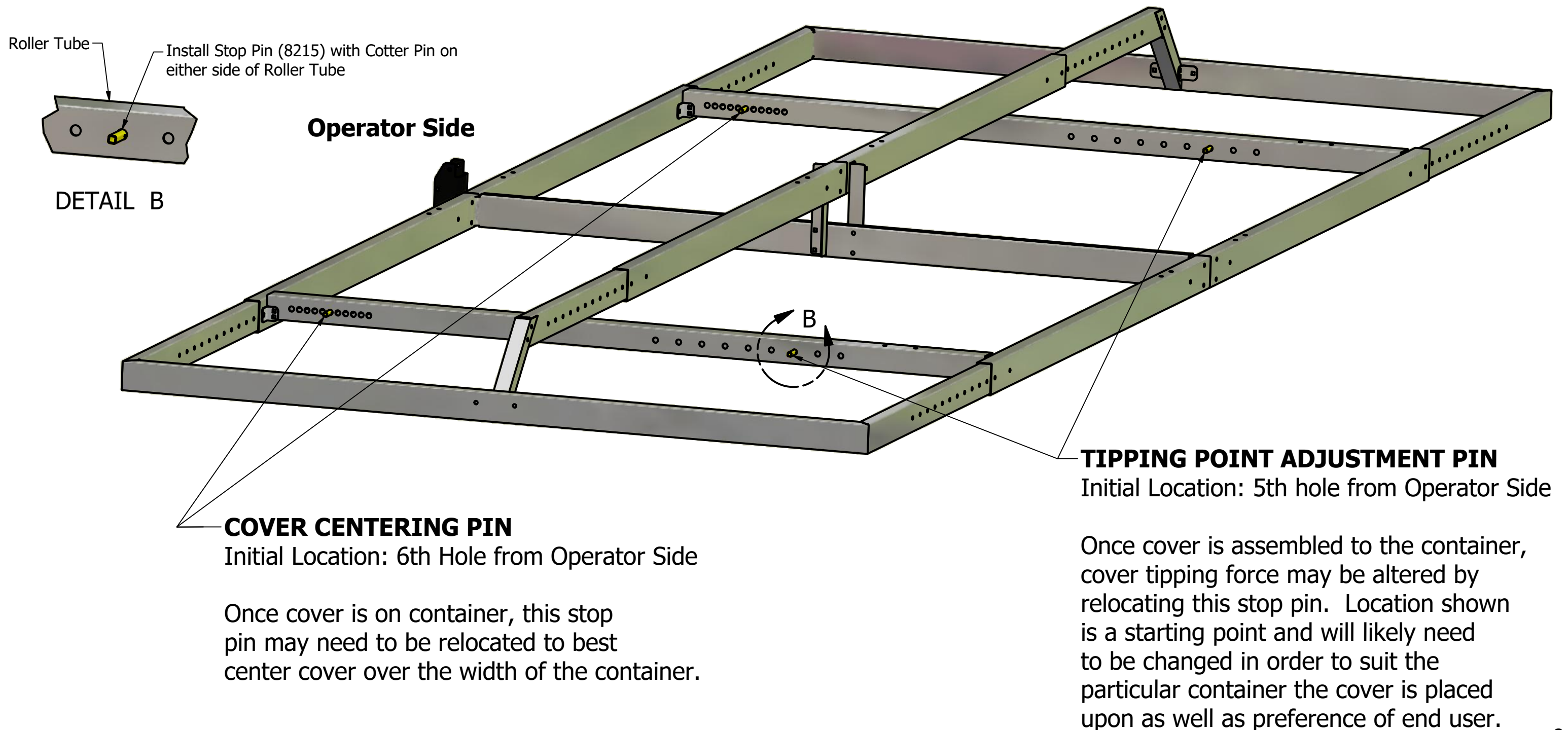
Bolt Header End Assemblies to Center Header Assembly with (4) 3/8 x 3" bolts and flangenuts.

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

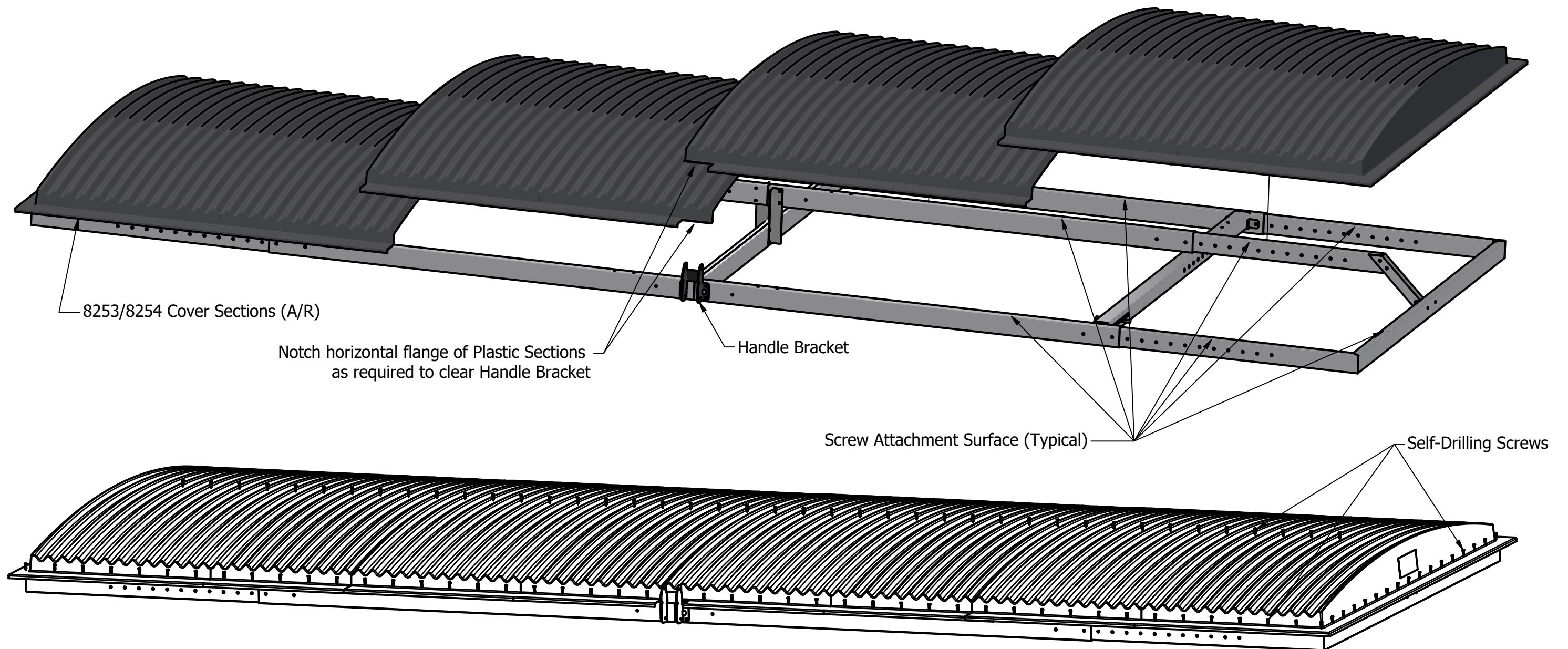
Position the Plastic Sections (8253/8254) over the frame (total number of pieces may be less than shown for shorter covers).

***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).

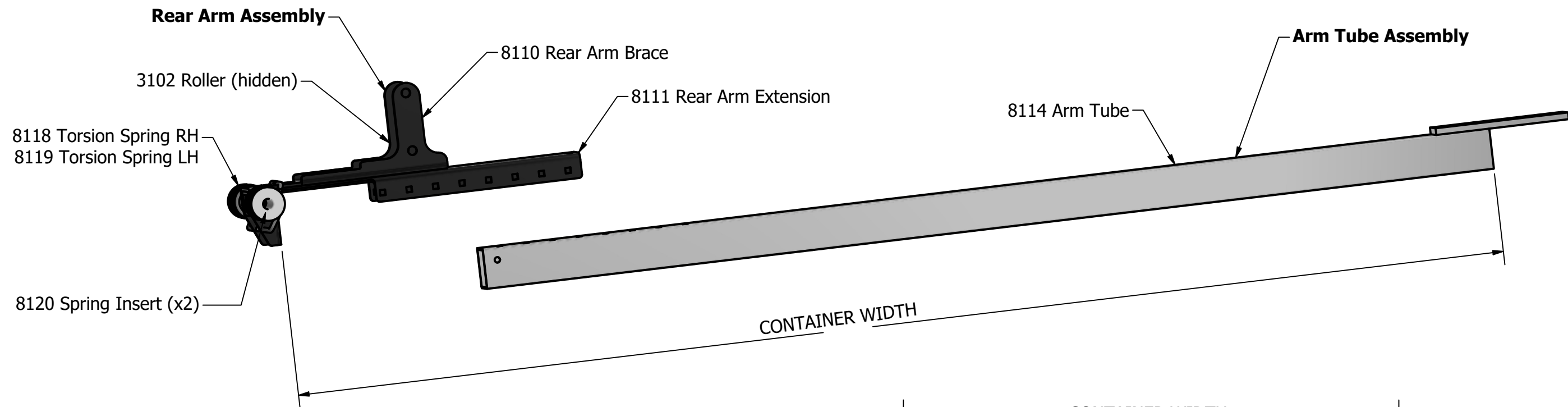


Step 8: Arm Assembly (x2)

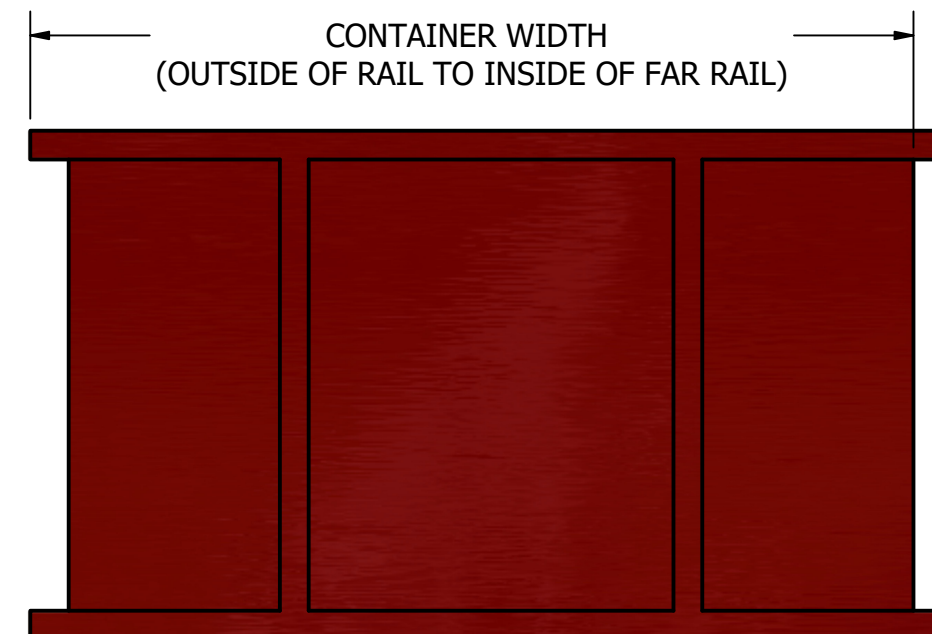
Measure the width of the container being covered (the outside of one rail to the inside of the other).

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.



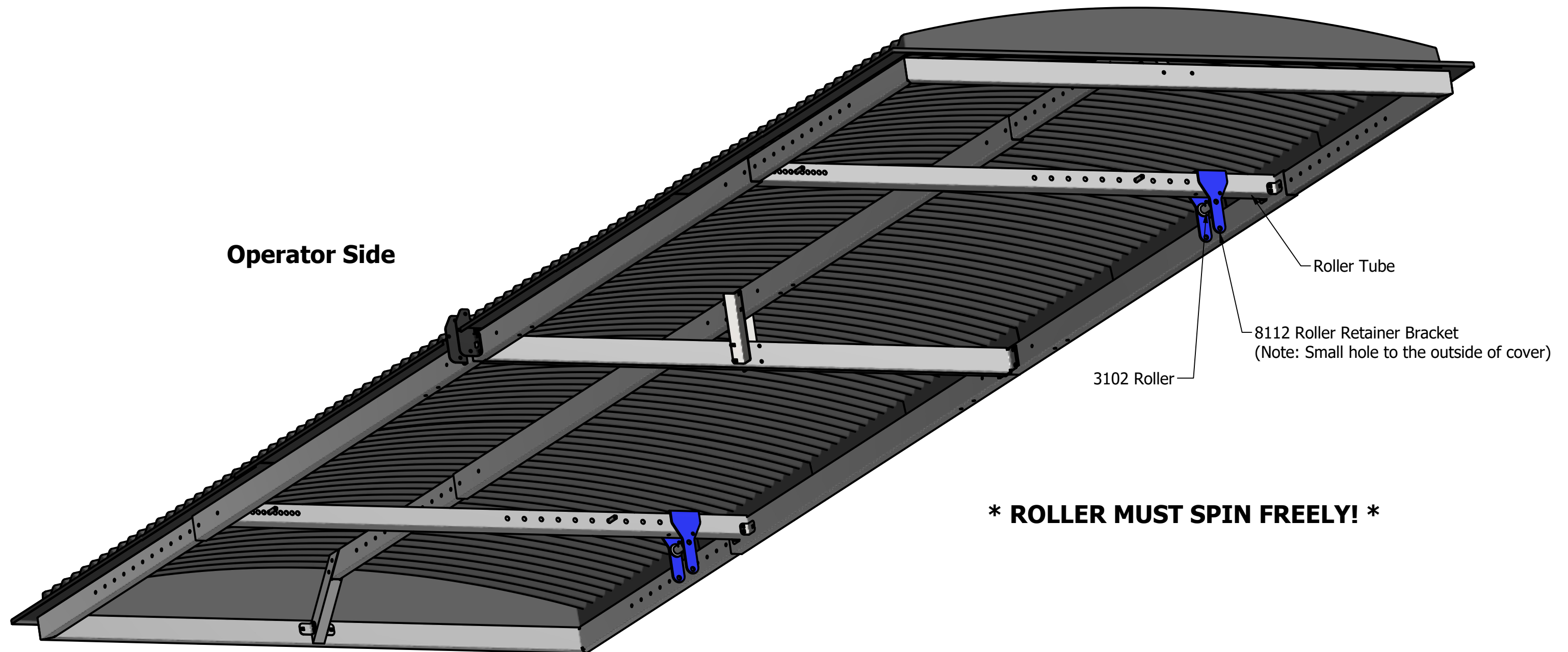
*** ROLLER MUST SPIN FREELY ***



Step 9: Roller Retainer Bracket Installation (x2)

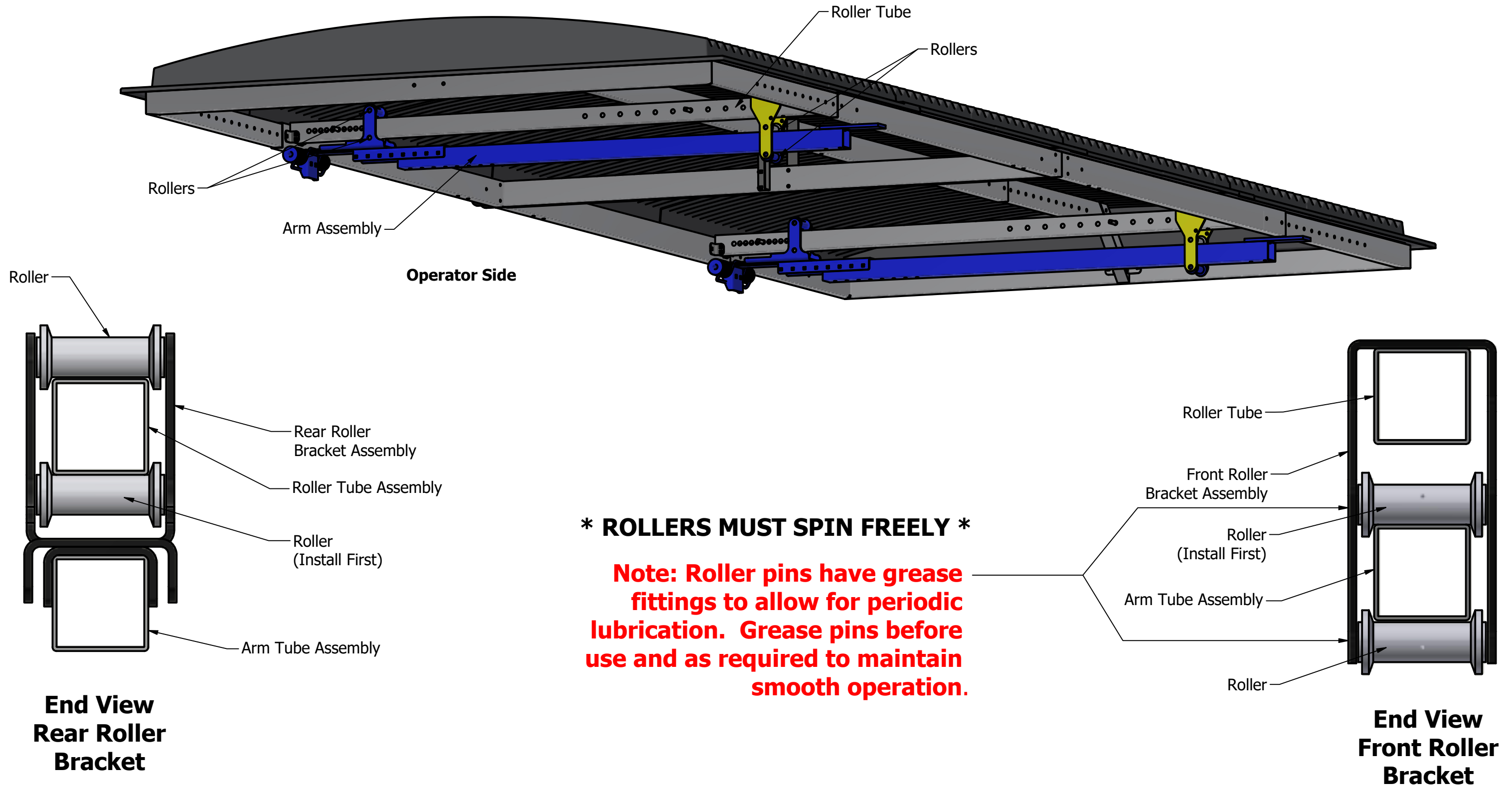
Securely elevate the cover and attach the Roller Retainer Bracket (8112) to the Roller Tube as shown using (2) 3/8 x 4" carriage bolts and flange nuts.

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.



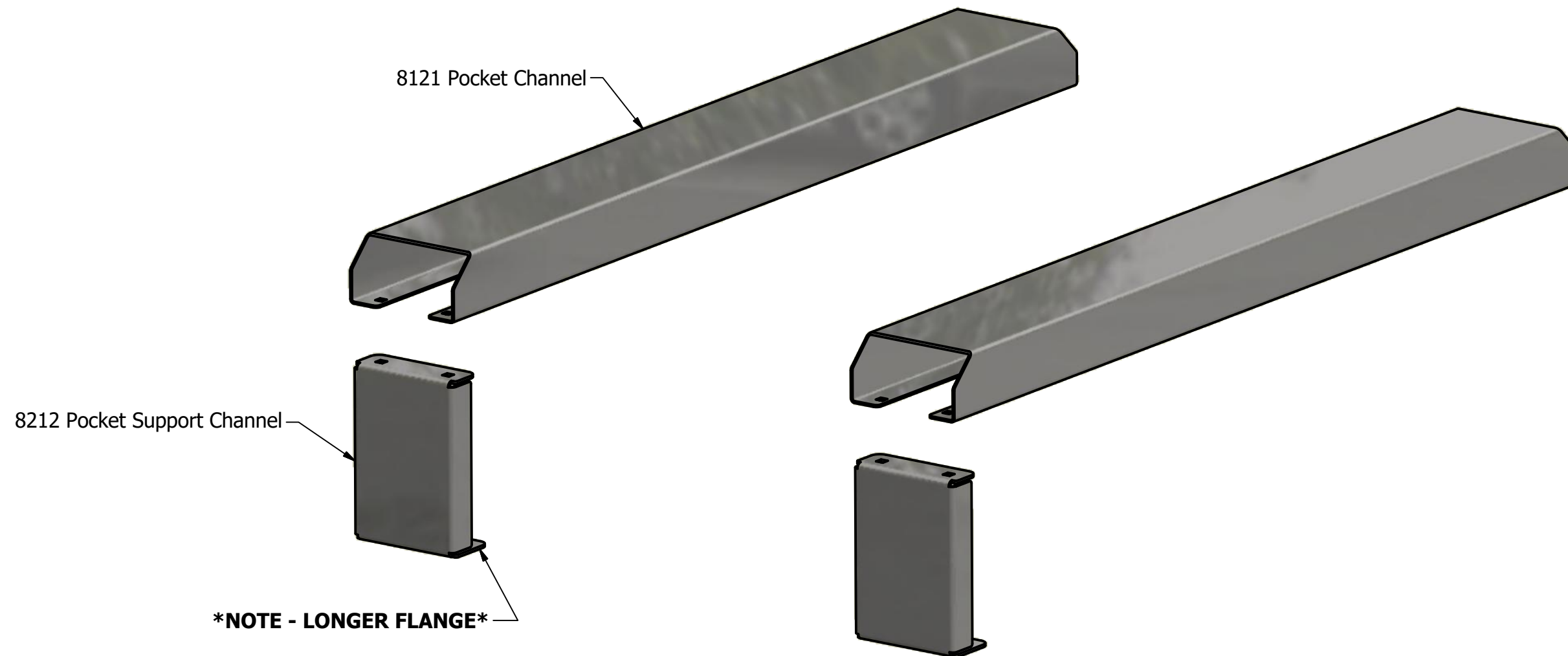
Step 10: Arm Assembly Installation (x2)

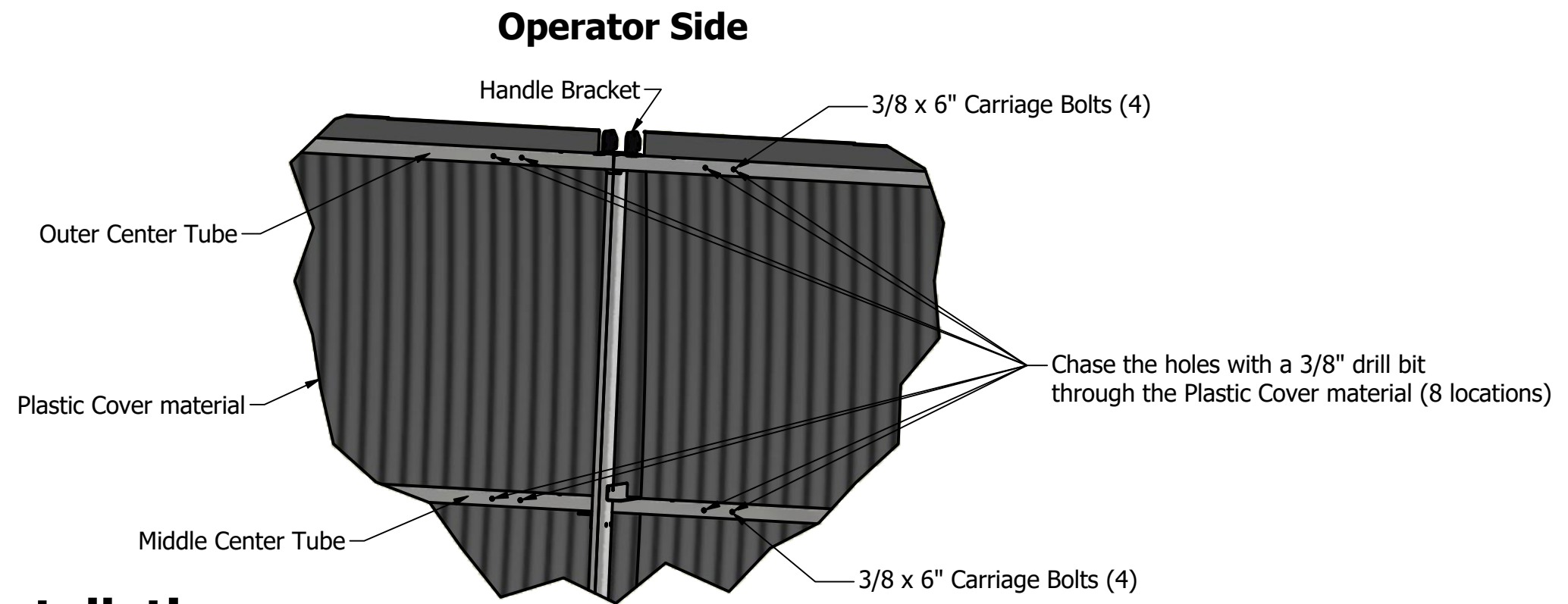
Lift the Arm Assembly to the Roller Tube until the Rollers previously installed are in contact with the Tubes. Secure Arm Assembly into place with the remaining (2) Rollers (3102) and 5/8" pins (8527) and retaining clips.



Step 11: Fork Pocket Assembly (x2)

Attach Pocket Support Channel (8212) to Pocket Channel (8121) using (2) 3/8 x 1" Carriage Bolts and Flange Nuts. These will bolt through the first set of holes from the Operator Side of the Pocket Channels (8121). The bolt heads are to be to the inside of the Pocket Channel.





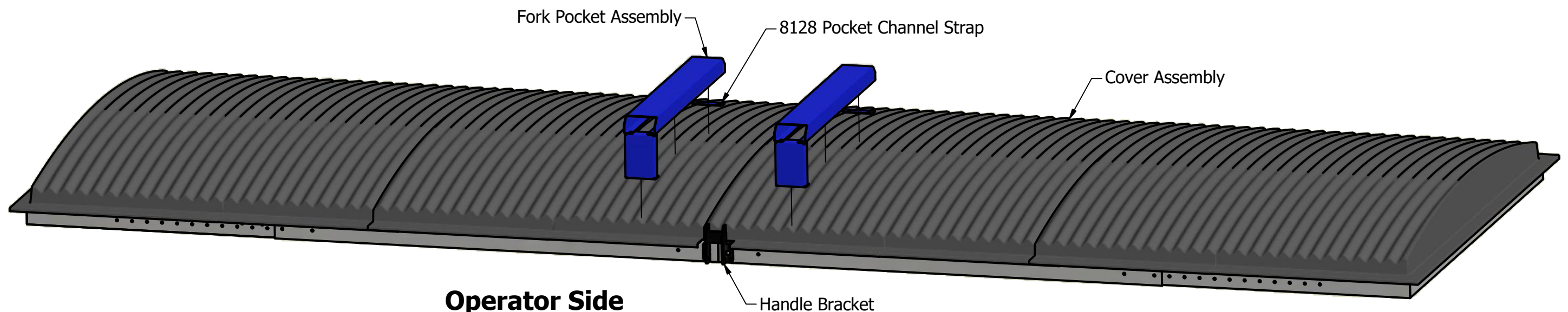
Step 12: Fork Pocket Installation

The Fork Pockets can be installed on either side of the Cover Assembly. Typically they are located on the Operator or Hinged side of the Cover Assembly and what is depicted in the views shown. Installation will be similar for either side.

With a 3/8" diameter drill bit, use the existing holes in the bottom of the Center Tubes as a guide, drilling through the Plastic Cover in the eight locations shown above.

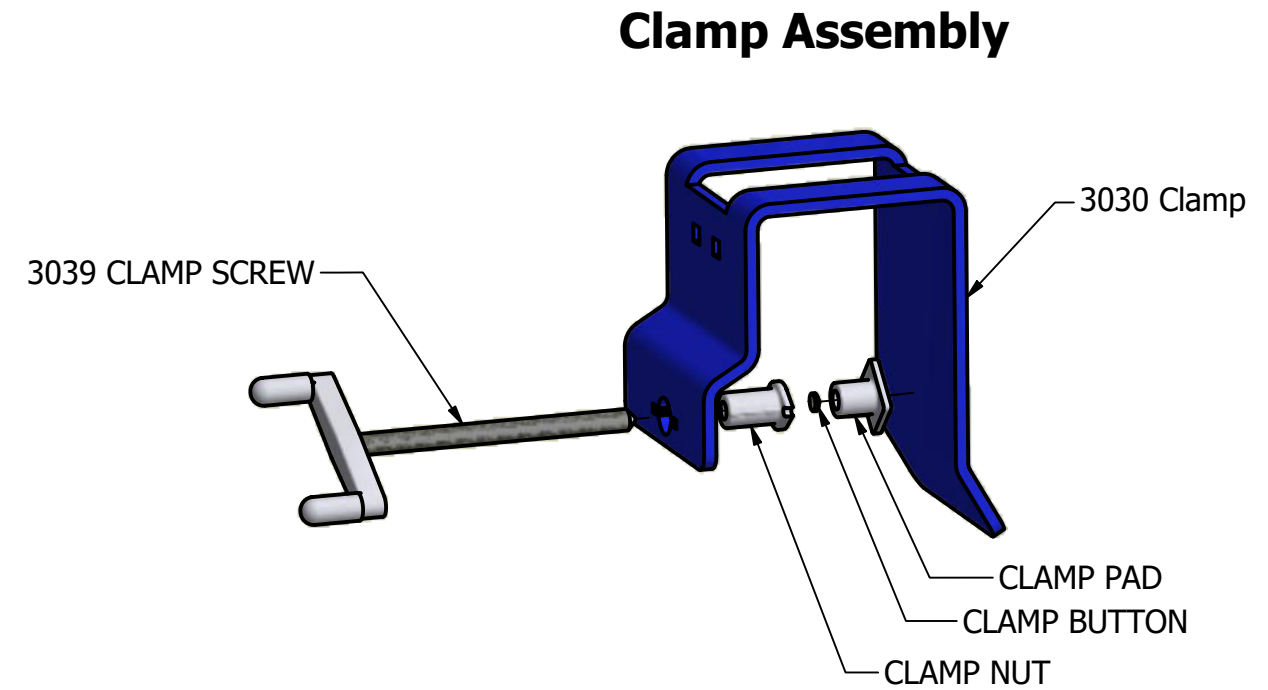
Run (8) 3/8 x 6" Carriage Bolts up through the drilled holes.

Place a Pocket Channel Strap (8128) over each pair of bolts through the middle Center Tube. Attach the Fork Pocket Assemblies to the Carriage Bolts with Flange Nuts and tighten.



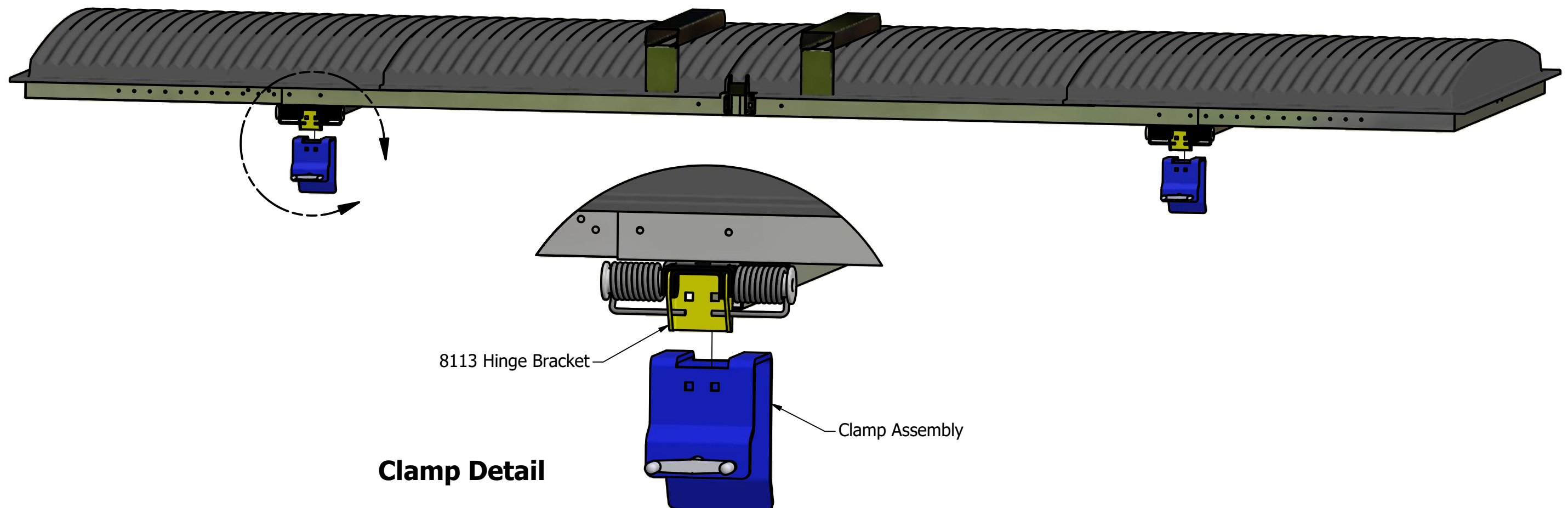
Step 13: Clamp Assembly (x2)

Assemble the Clamp Screw Assembly (3039) to the Clamp (3030) using (2) 1/4 x 1 1/2" Bolts, Washers and Nylock Nuts.



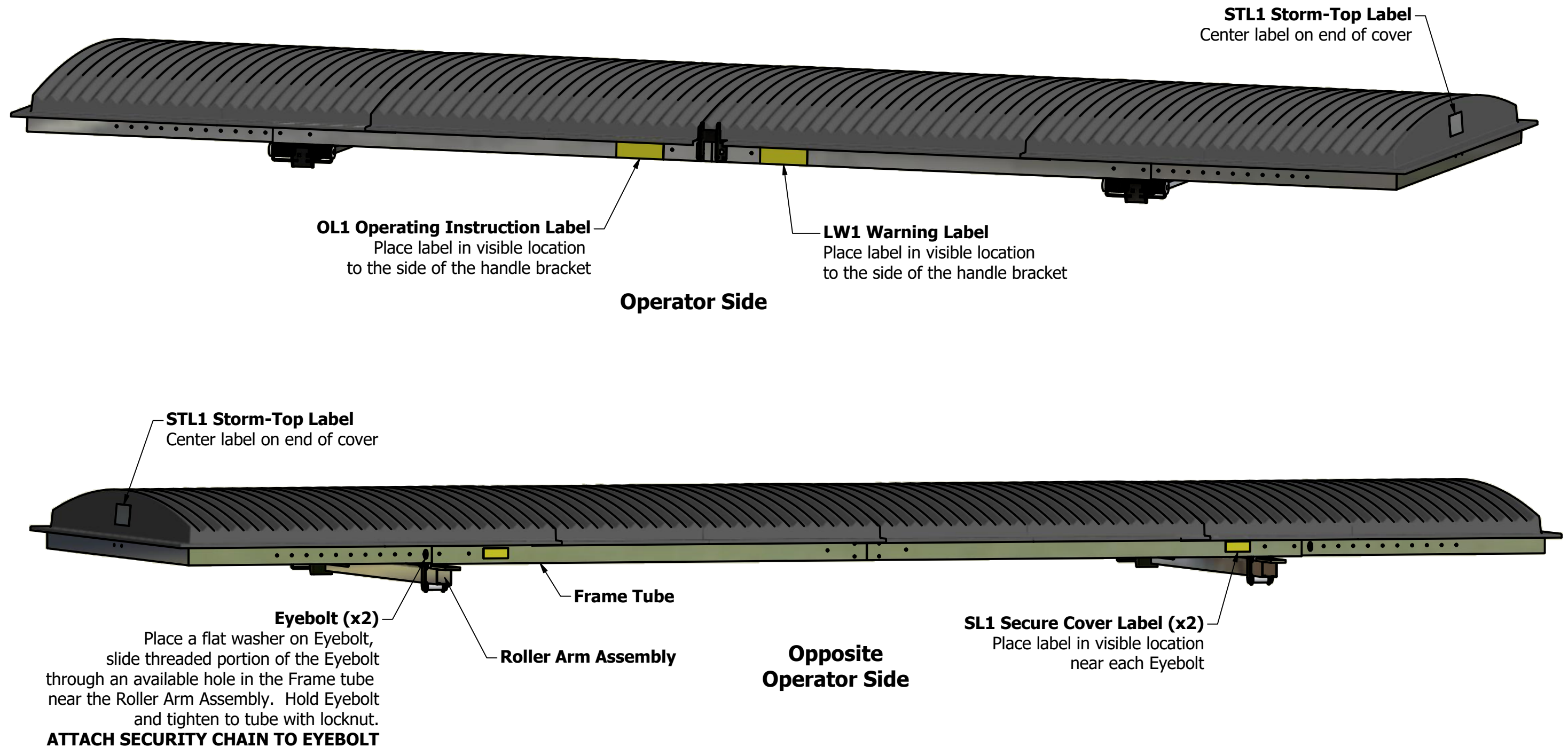
Step 14: Clamp Installation (x2)

Attach the Clamp Assembly to the Hinge Bracket (8113) with (2) 1/2 x 1 1/2" Carriage Bolts and Flange Nuts.



Step 15: Warning Label Installation

Place labels and eyebolts as shown.

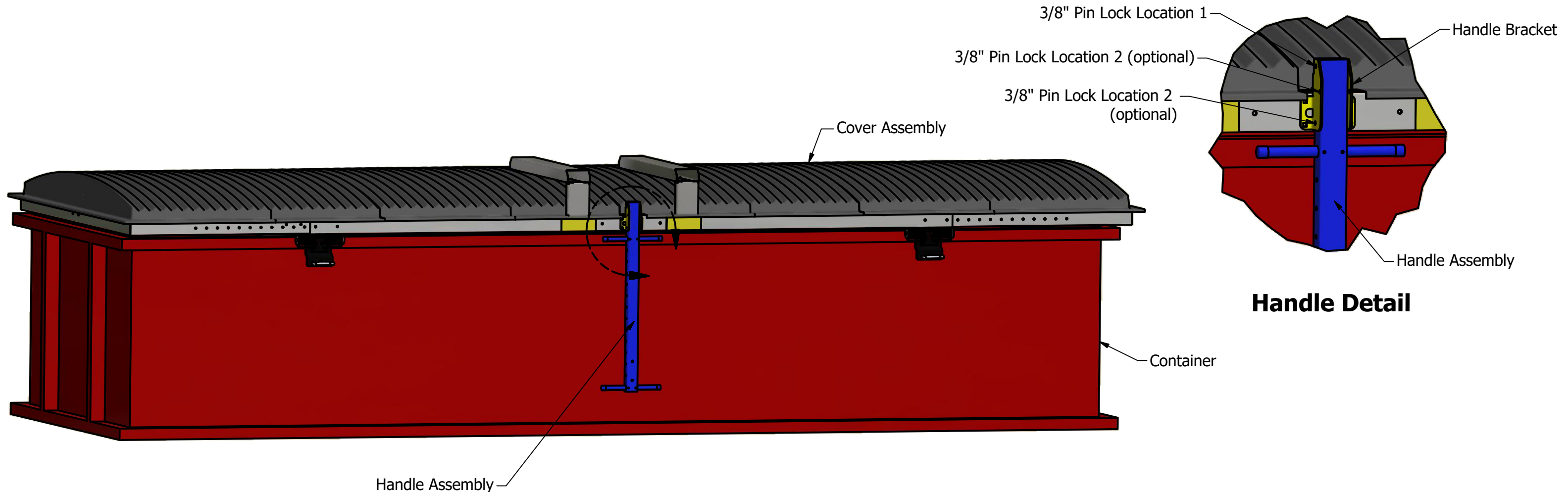


Step 16: Cover/Container Attachment

Always remove Handle Assembly prior to lifting cover with a forklift to avoid damage.

Use forklift to center Cover Assembly on Container, noting direction that Cover Assembly is desired to operate vs. direction container gate swings (typically mounted opposite unless unusual circumstance). Lower Clamps over top rail of Container. Remove forklift, pull back on the clamps to take out any slack that may be between the clamp and rail and tighten clamp screw until it is snug in place.

Do not use excessive force!



Step 17: 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.

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

STORM TOP

Model ST-8200-R 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 15)
- Make sure all nuts/bolts are tightened and securing pins in place

