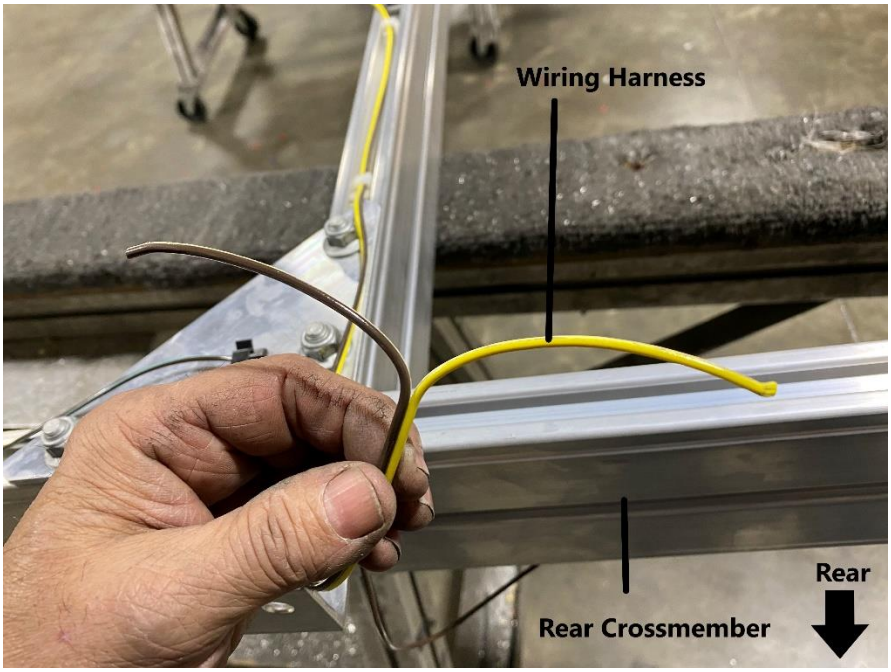
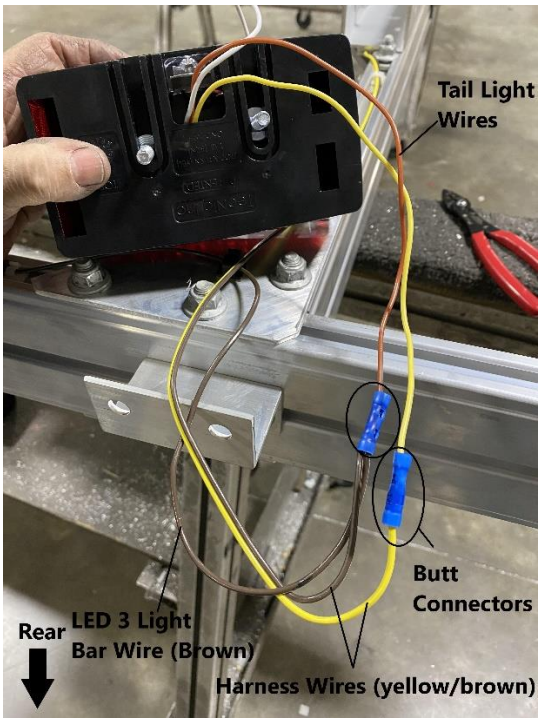
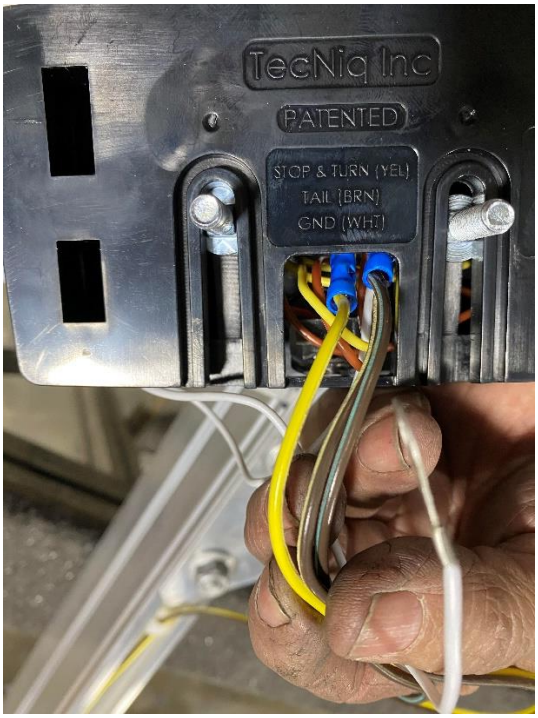


Locate the end of the wiring harness that is hanging underneath the right side rail. Use a utility knife to split the two wires of the wiring harness. Repeat this process for the other side.

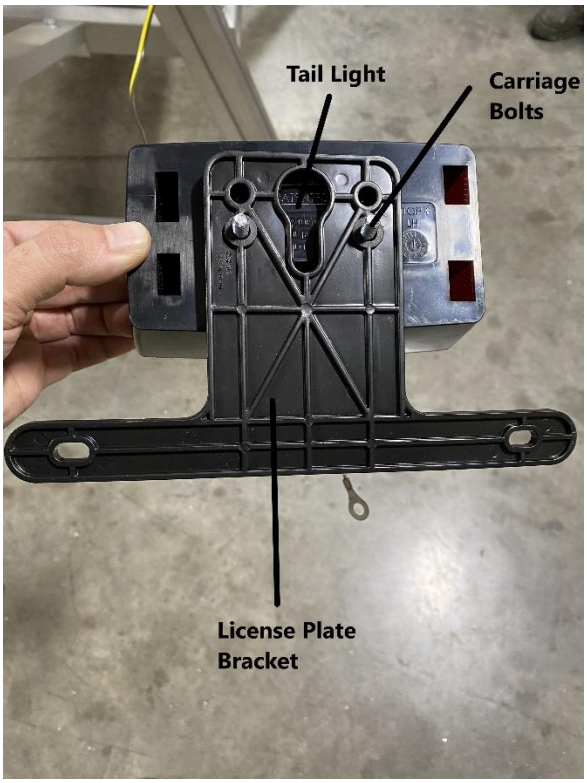
Use a pair of wire cutters to strip the ends of the (4) tail light wires (2 brown, 1 green, 1 yellow), (4) harness wires (2 brown, 1 green, 1 yellow) and (1) LED 3 Light Bar wire/connecting wire. Note that the white ground wire on the tail light will be installed later.



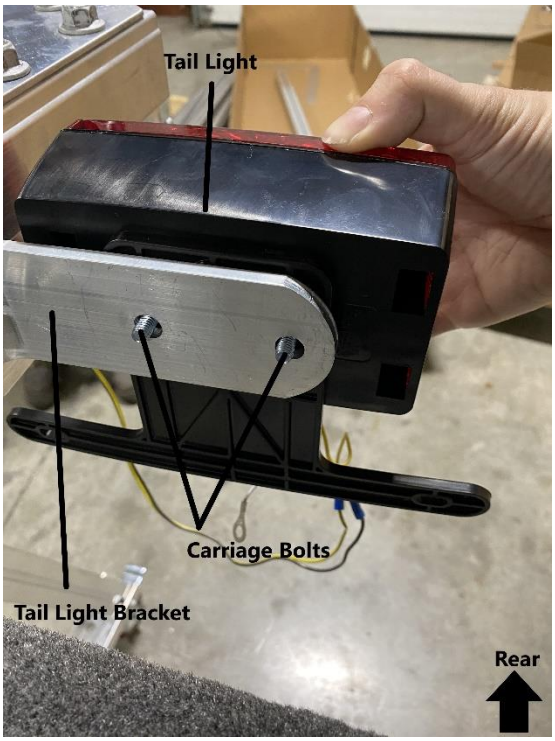
Use butt connectors to connect the tail light and the LED 3 light bar to the wiring harness as shown. Match the brown wire of the harness with the brown wire of the tail light. Same for the yellow wires. Note that both the brown LED 3 light bar wire/connecting wire and the brown harness wire will need to be connected together.



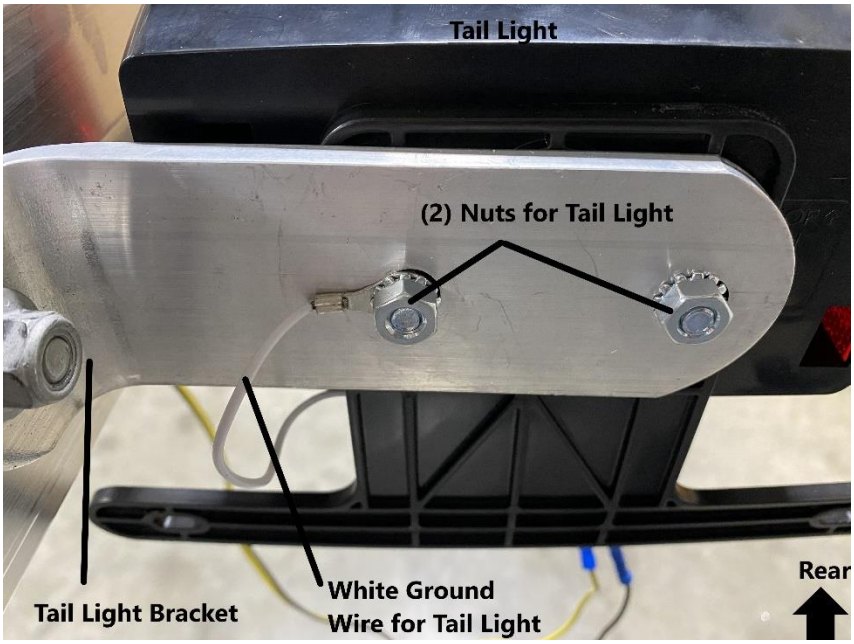
Excess wire can be placed inside the tail light.



Install the license plate bracket to the tail light as shown. Place the two bottom holes of the license plate bracket on the two carriage bolts installed on the tail light.

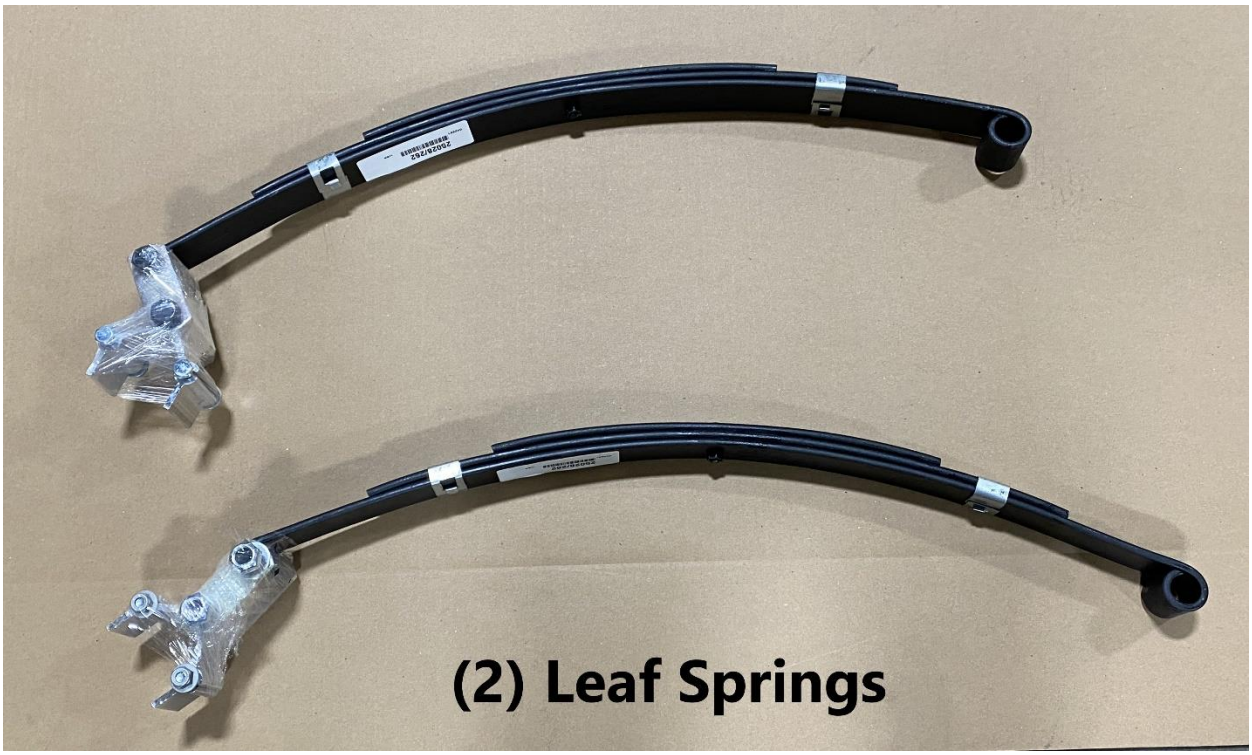


Install the tail light to the tail light bracket as shown.

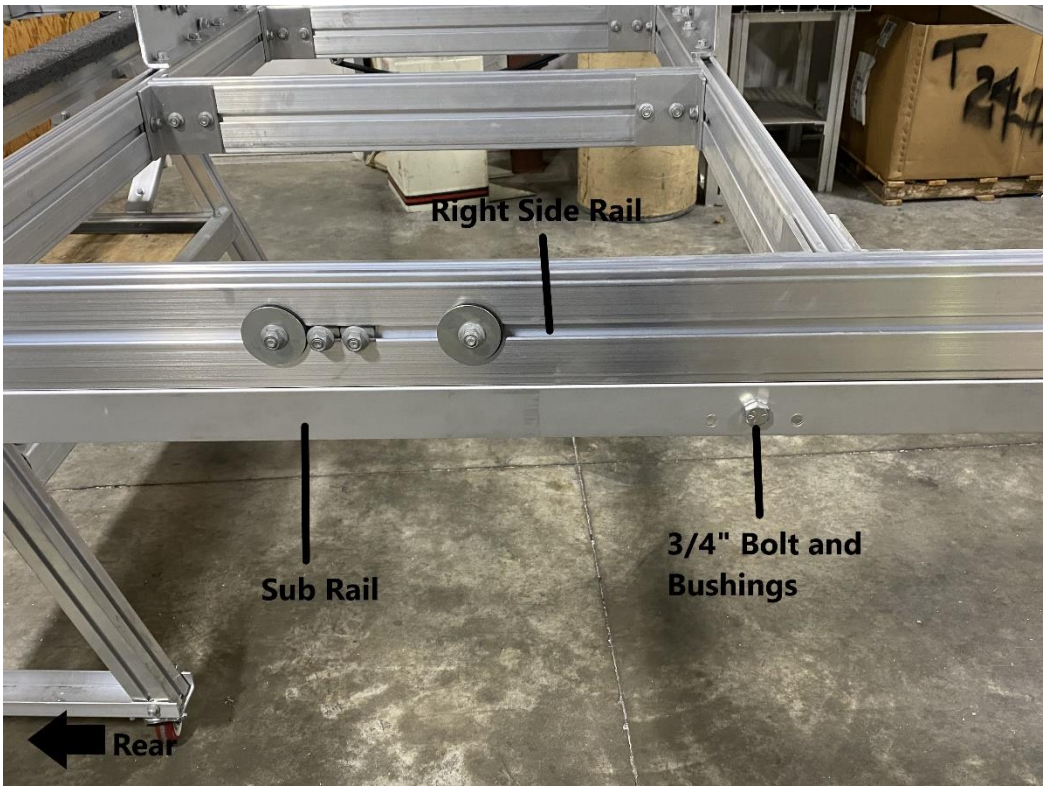


Install the white ground wire of the tail light to the carriage bolt as shown. Install nuts and tighten using 9/16” wrench. Repeat this process on the other side of the trailer to install both tail lights.

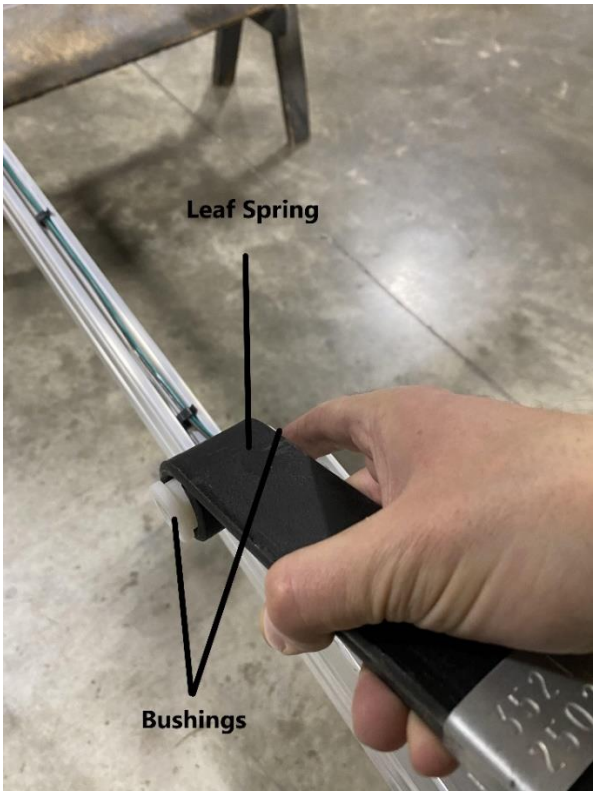
At this point the trailer looks like this.



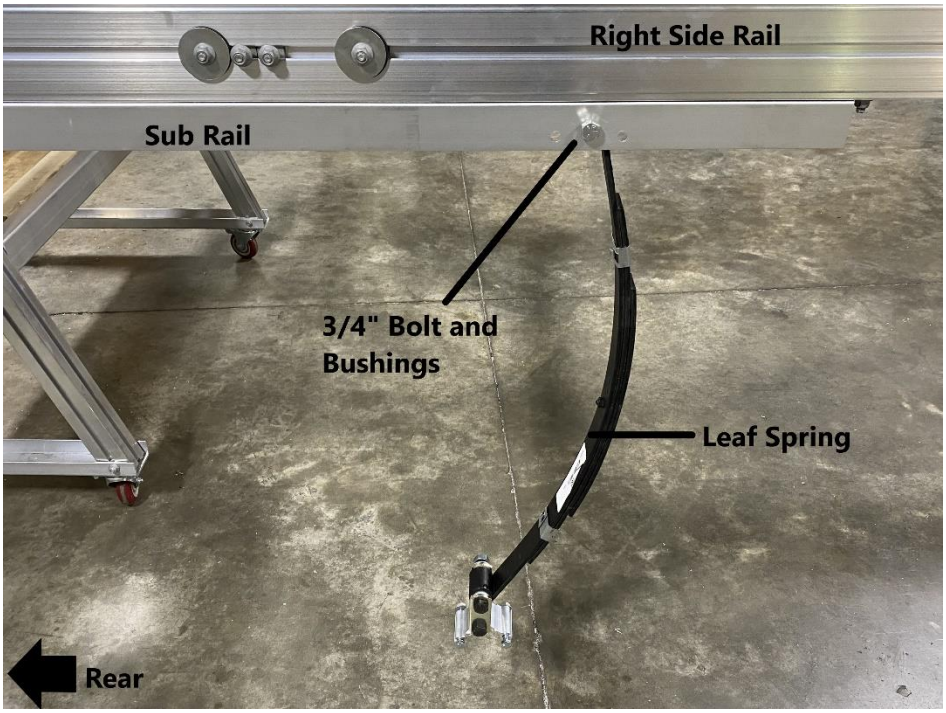
Locate the (2) leaf spring assemblies. Remove the cling wrap.



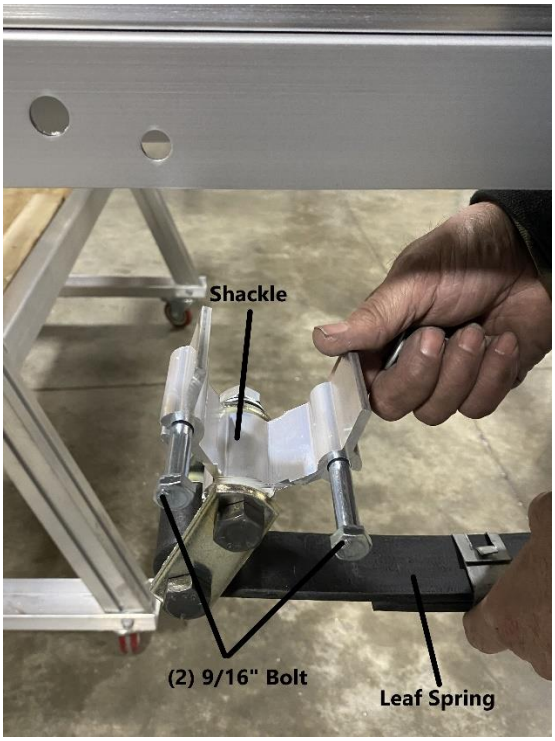
Locate the sub rail installed on the bottom of the right side rail. Remove the ¾” bolt and bushings.



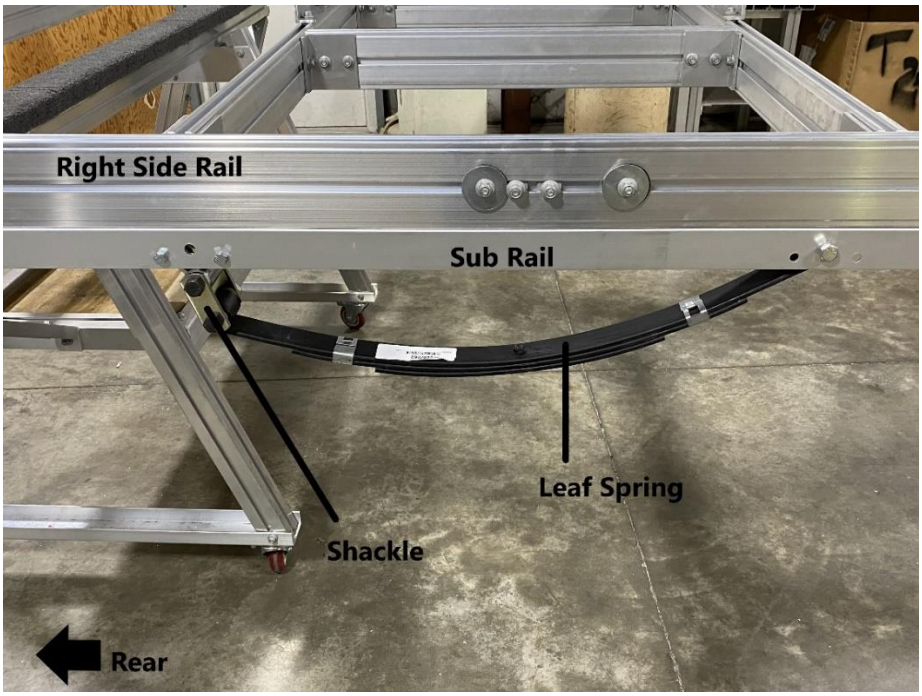
Insert the (2) nylon bushings into the leaf spring.



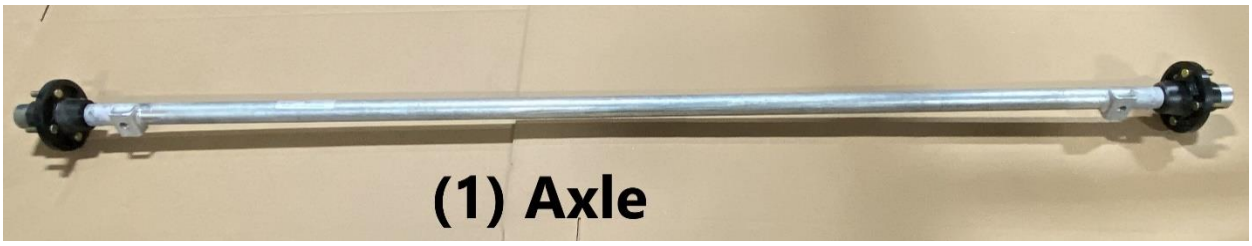
Install the leaf spring to the sub rail as shown. With the (2) bushings in the leaf spring, replace the ¾" bolt through the sub rail, bushings, and leaf spring. Replace the nut but do not tighten yet.



Remove the (2) 9/16” bolts from the shackle installed on the leaf spring.

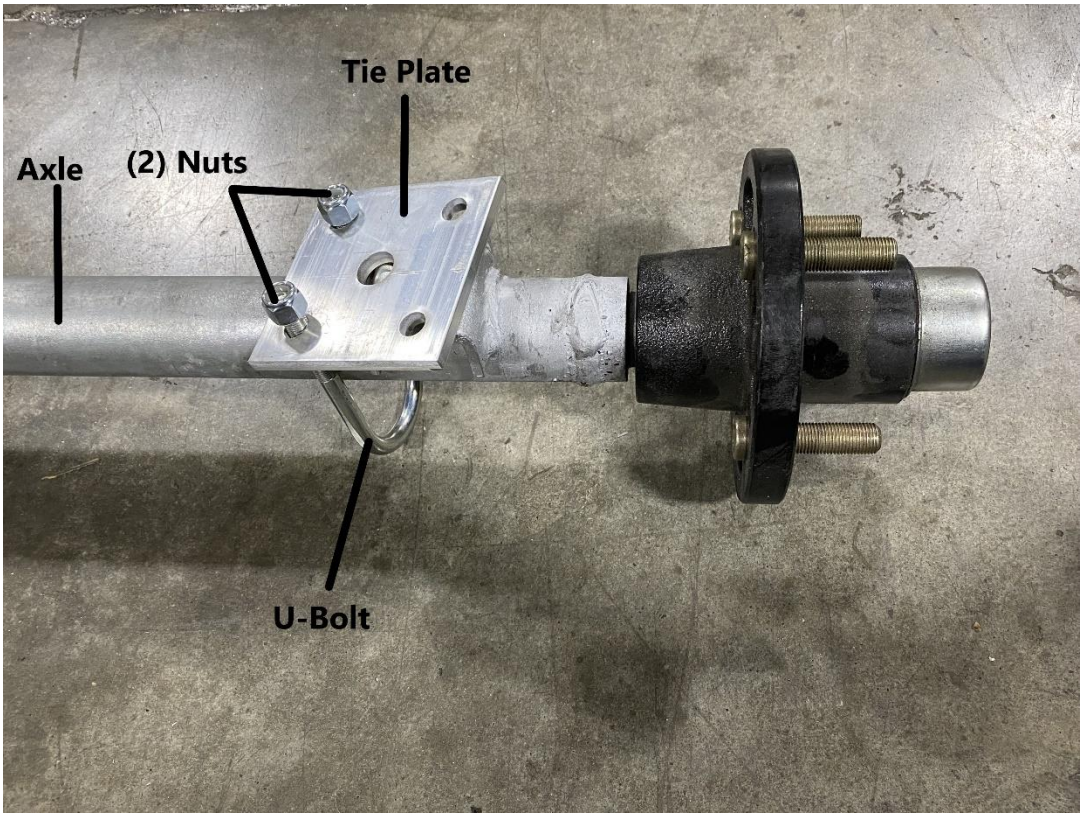


Install the shackle of the leaf spring into the sub rail as shown. Replace the 9/16” bolts. Replace the nuts but do not tighten yet. Repeat this process to install a second leaf spring on the left side rail.

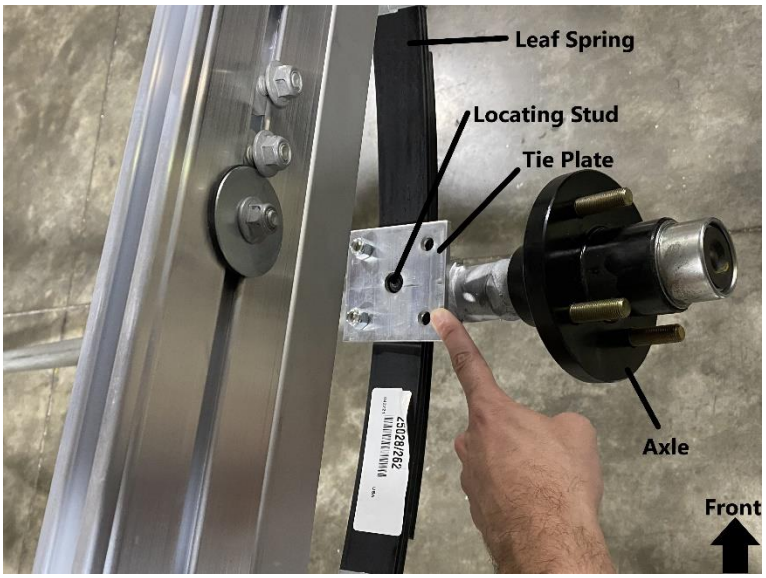


Locate the axle.

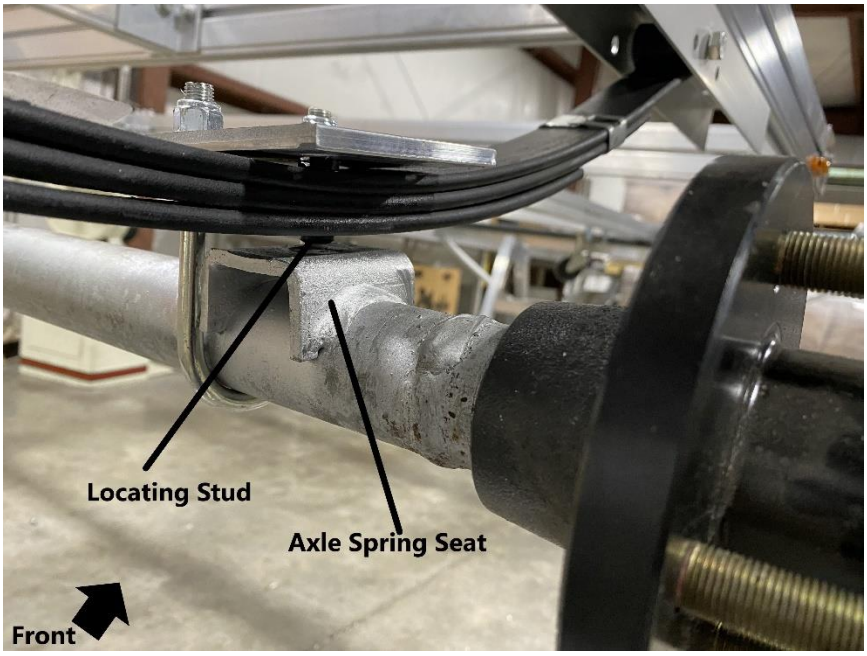
Locate the U-Bolt Kit.



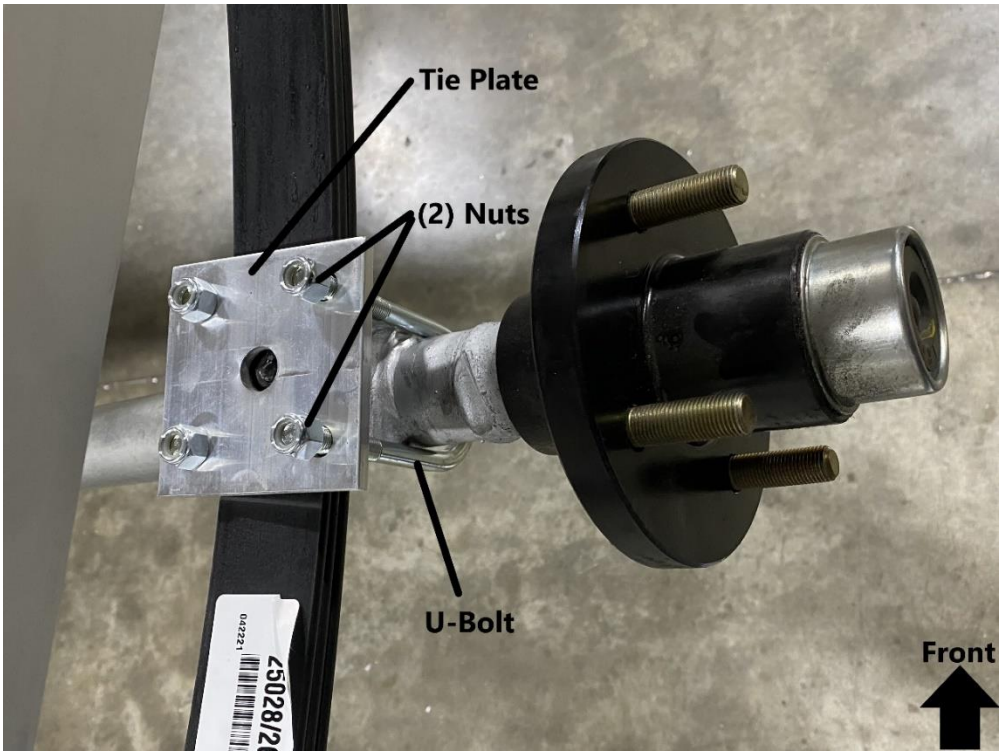
Install the Tie Plate and U-Bolt to the axle as shown. Replace the nuts but do not tighten yet.



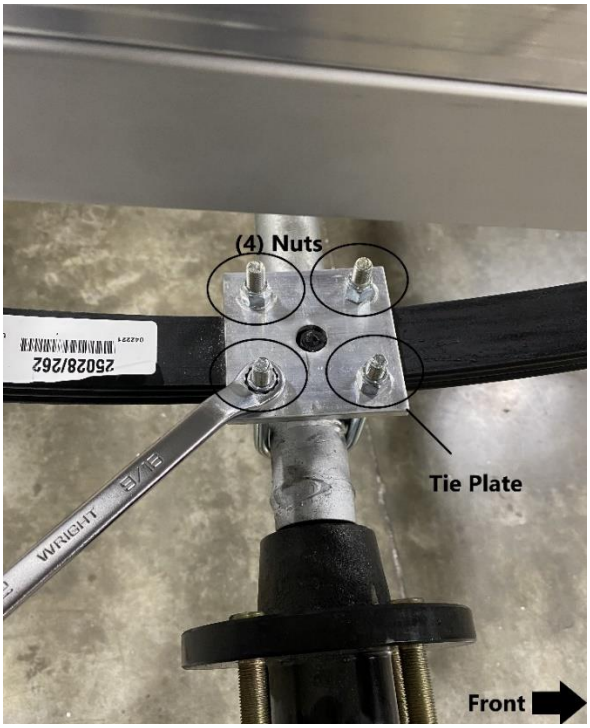
Install the axle to the leaf spring as shown. Slide the tie plate over the leaf spring until the center hole of the tie plate lines up with the locating stud of the leaf spring.



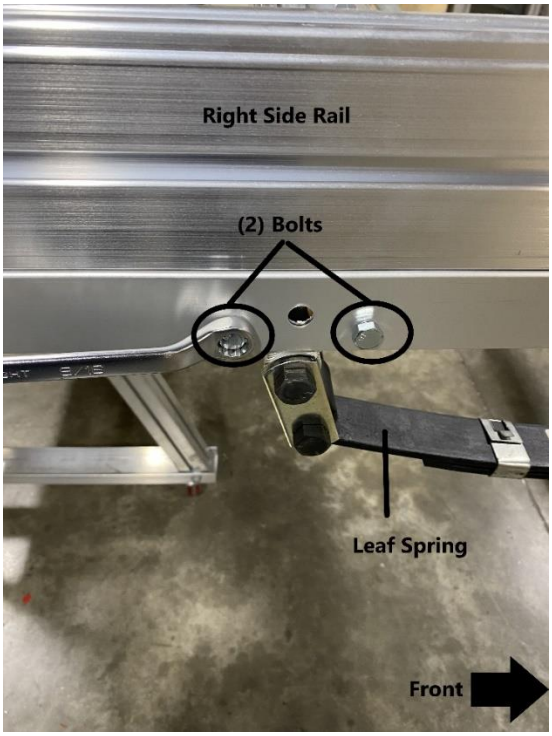
Place the locating stud of the leaf spring into the axle spring seat.



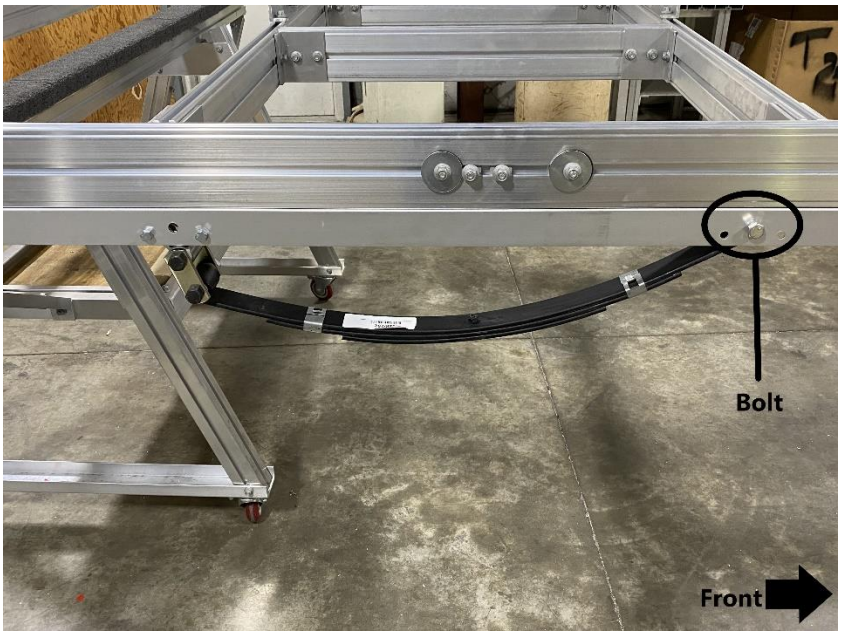
Install the second U-Bolt to the tie plate as shown. Replace the (2) nuts but do not tighten yet. Repeat this process to mount the axle to the leaf spring on the other side of the trailer.



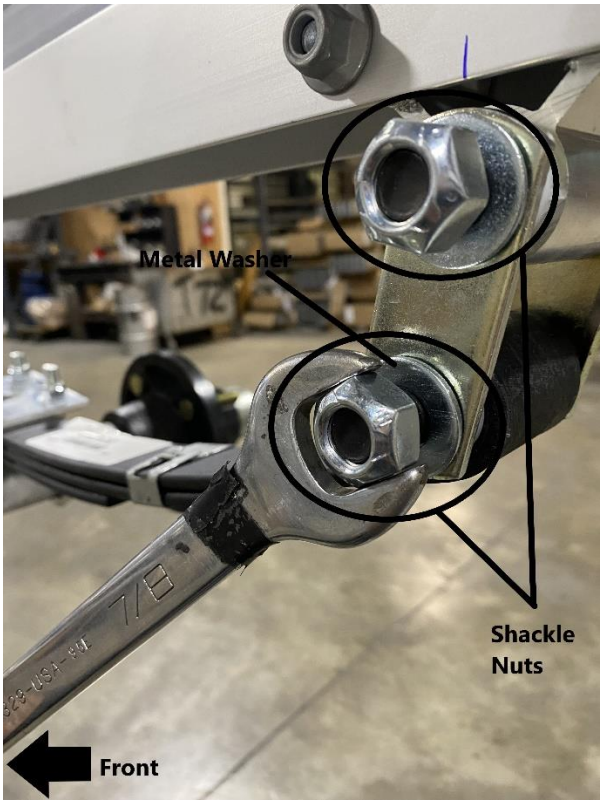
Use a cross pattern to tighten the (4) nuts using a 9/16” wrench. Repeat this process for this other side.



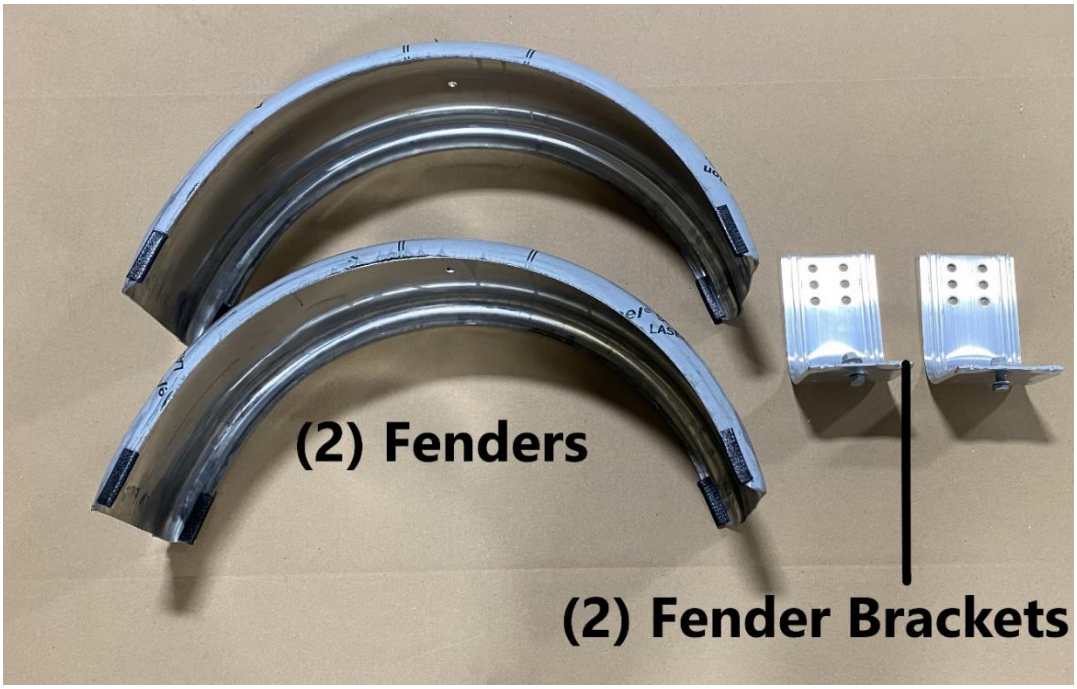
With the axle now installed the bolts of the leaf spring will now need to be tightened. Tighten the (2) bolts shown using a 9/16” ratchet and wrench. Repeat this process for the other side.



Tighten the bolt using a ¾" ratchet and wrench. Repeat this process for the other side.

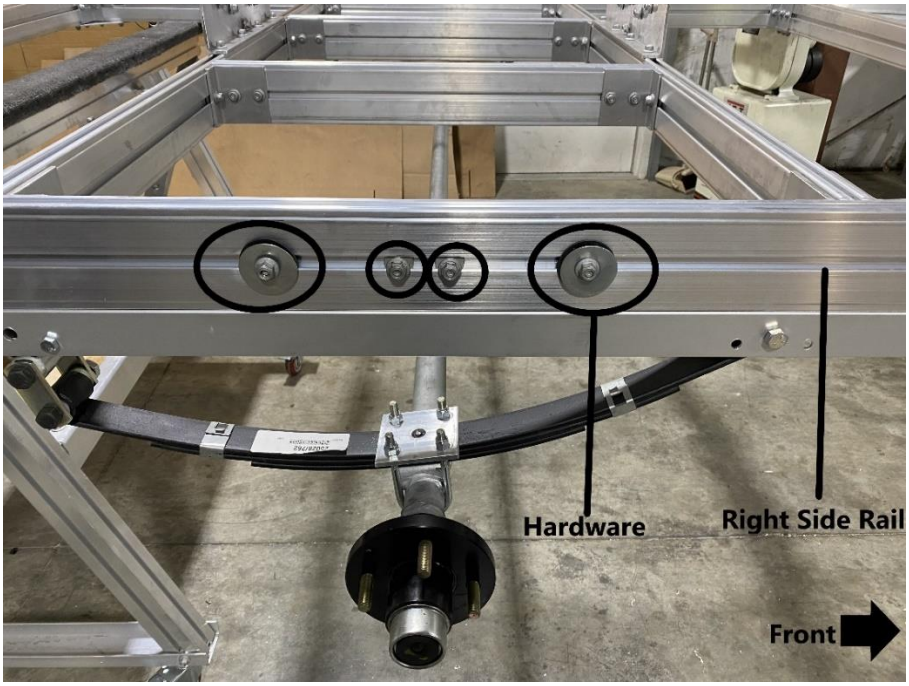


Tighten the rear shackle nuts with 7/8" ratchet and wrench. Ensure that the metal washers are not moving. However, do not over tighten as this will not allow the suspension to move properly. Repeat this process for the other side.

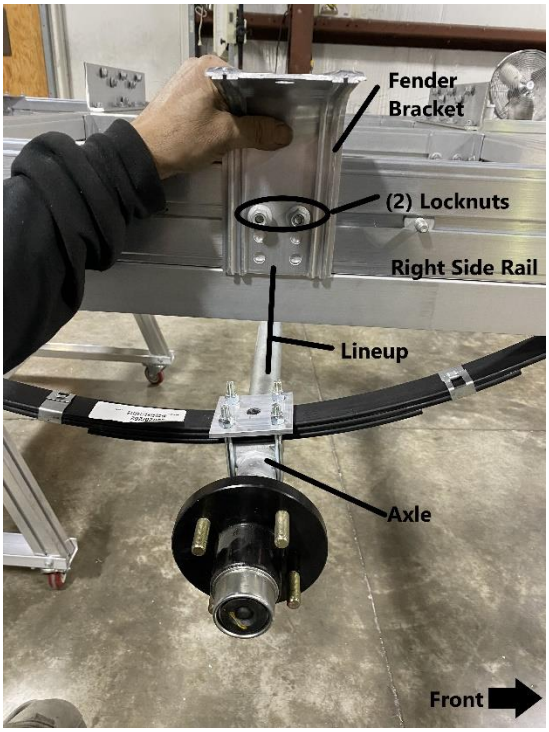


Locate the (2) fenders and (2) fender brackets. Remove the plastic covering from the fenders.

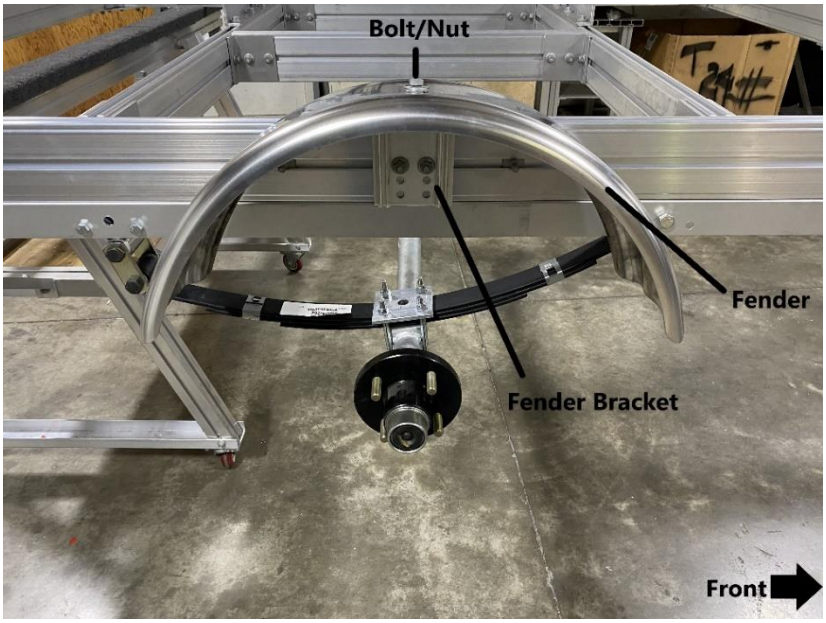
Remove the T-bolt and locknut from both fender brackets.



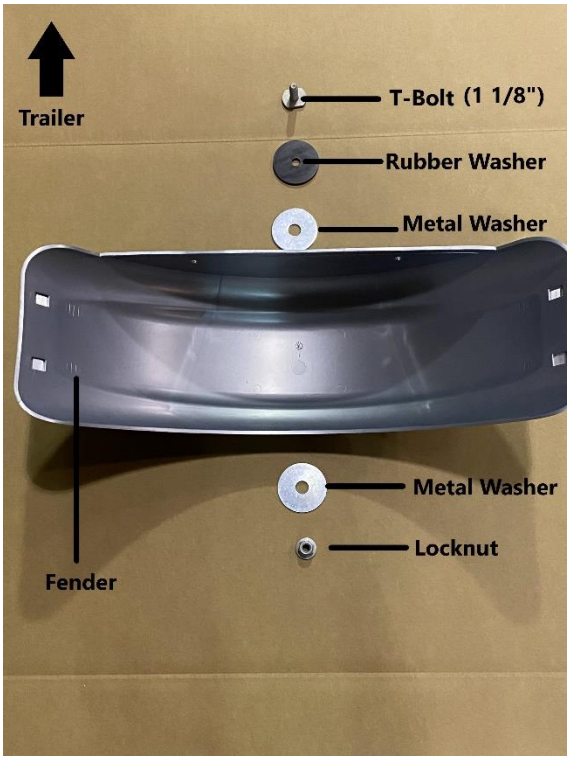
Remove all the hardware from the right side rail using a 9/16” wrench. This will leave 4 T-Bolts in the right side rail.



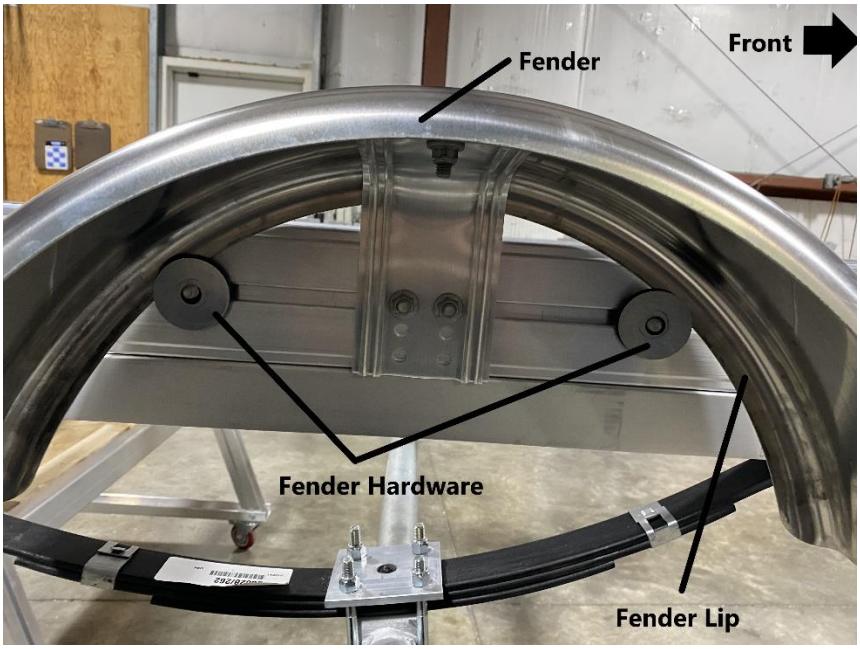
Install the fender bracket to the right side rail as shown. Use the (2) center T-bolts to install the fender bracket to the right side rail. Lineup the center of the fender bracket to the axle. Replace the locknuts and tighten using a 9/16” wrench.



Install the fender to the fender bracket as shown. Replace the bolt and nut that was previously installed on the fender bracket. Tighten using a 9/16” wrench. Do no overtighten as this will damage the fender.

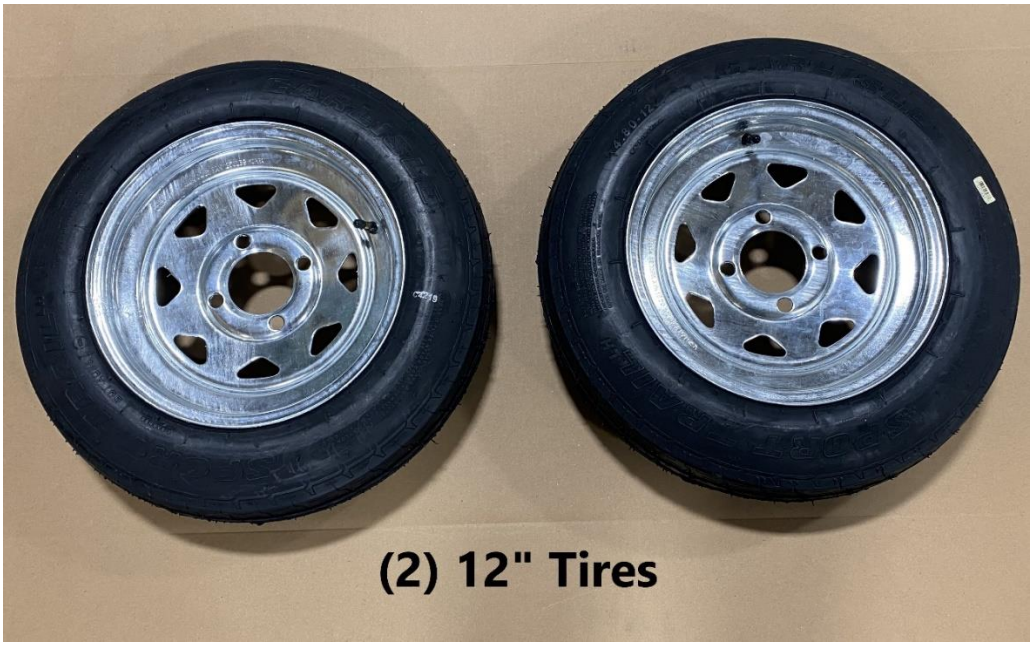


Note the ordering of the fender hardware in the above picture.

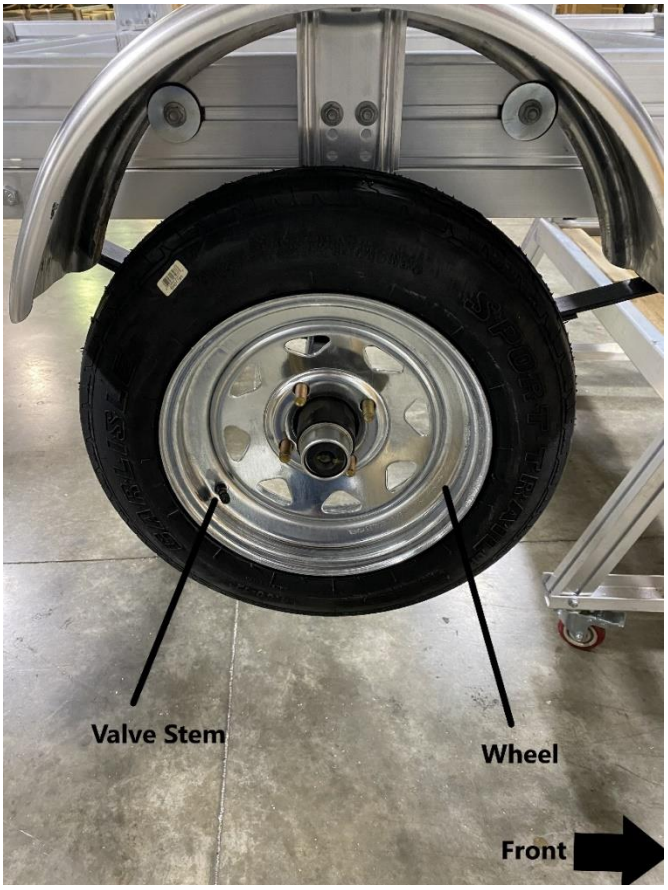


Install the fender hardware as shown, placing a rubber and metal washer behind the fender lip, then a metal washer and locknut in front of the fender lip. Tighten the locknut using a 9/16" wrench. Repeat this process to install both fenders.

At this point the trailer looks like this.



Locate (2) 12” tires.



Install the wheel with the valve stems facing out.

Locate the (8) lug nuts found in the U-Bolt kit.

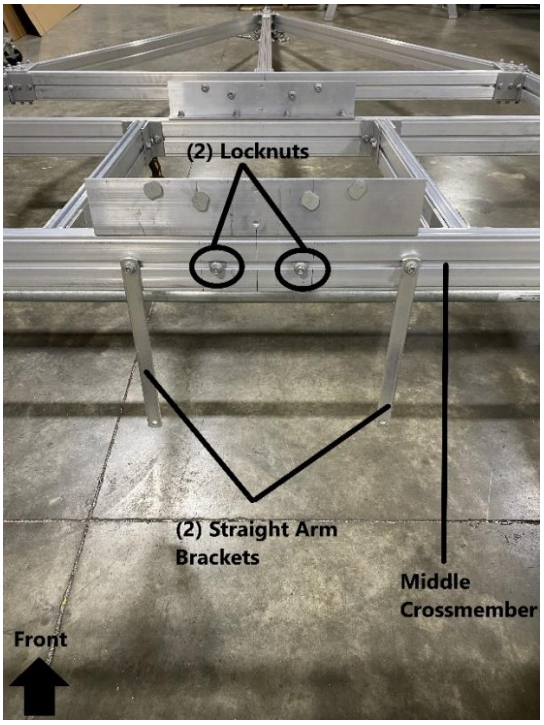
Install the lug nuts with the tapered side facing the wheel.

The trailer can now be removed from the saw horses. At least two people will be necessary.

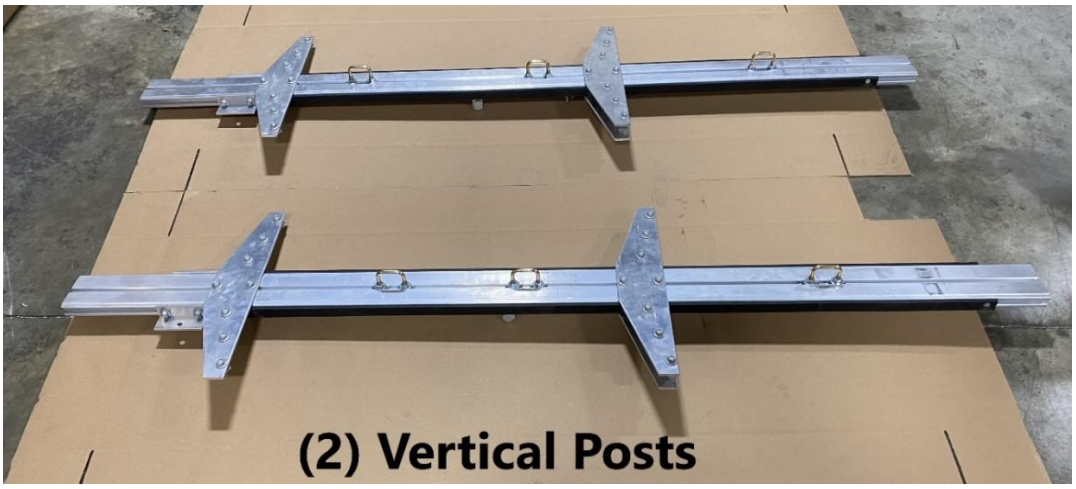
Place (4) wheel chocks as shown, (2) on each tire.

Torque the lug nuts to 80 foot pounds using a X pattern. Repeat the process for the other tire. Note that after 20 miles the lug nuts will need to be re-torqued to 80 foot pounds.

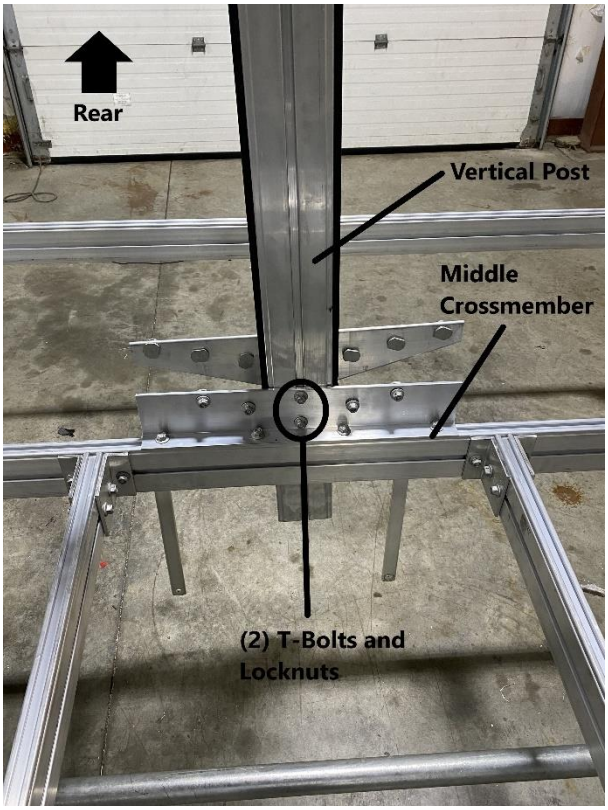
Vertical Post Assembly



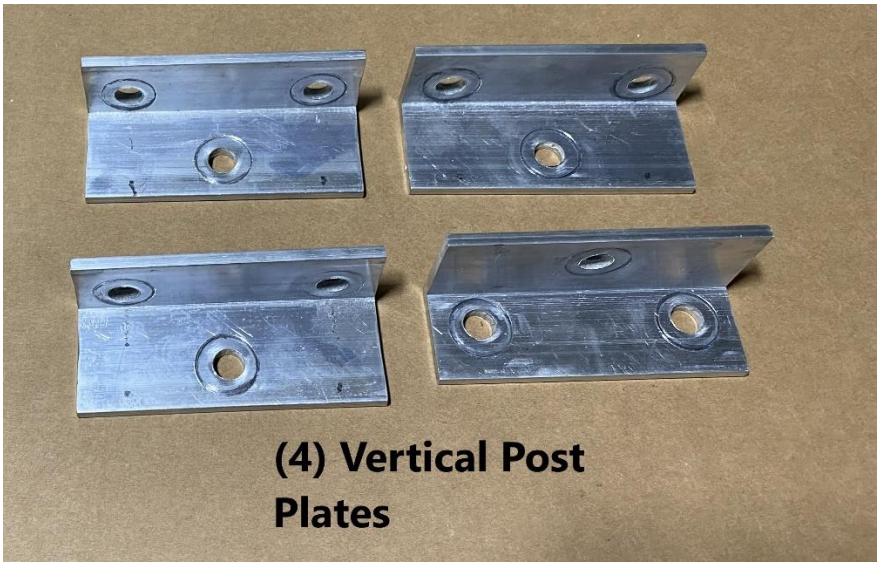
Locate the (2) straight arm brackets on the middle crossmember. Remove the (2) inside locknuts so the straight arm brackets are hanging from the middle crossmember. Repeat this process for the other (2) straight arm brackets.



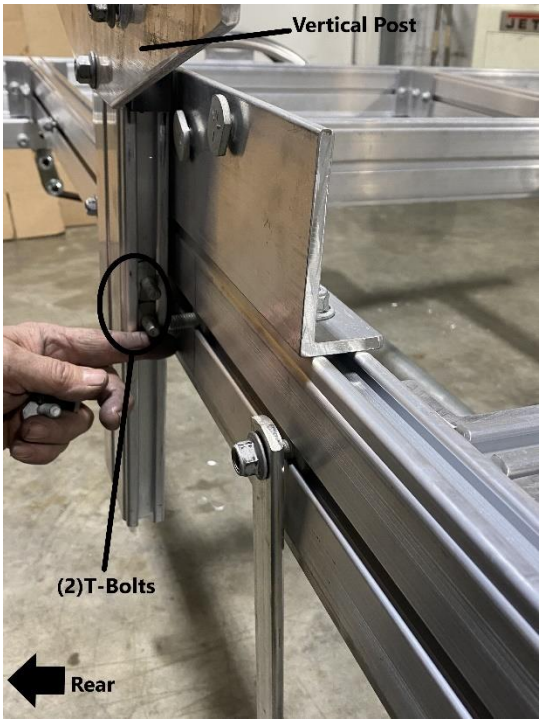
Locate the (2) vertical posts.



Two people will be necessary to install the vertical post onto the middle crossmember. Locate the (2) T-bolts and locknuts shown in the picture. While holding the vertical post, move the (2) T-Bolts through the groove of the vertical post. Tighten the locknuts using a 9/16" wrench.

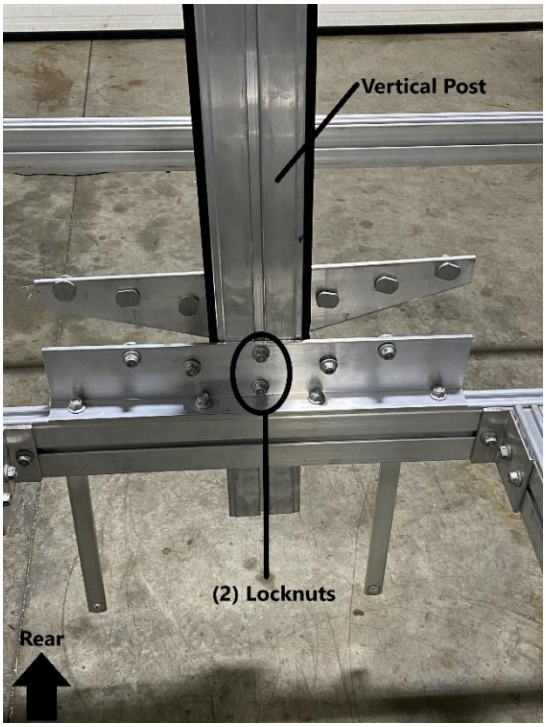


Locate the (4) vertical post plates.



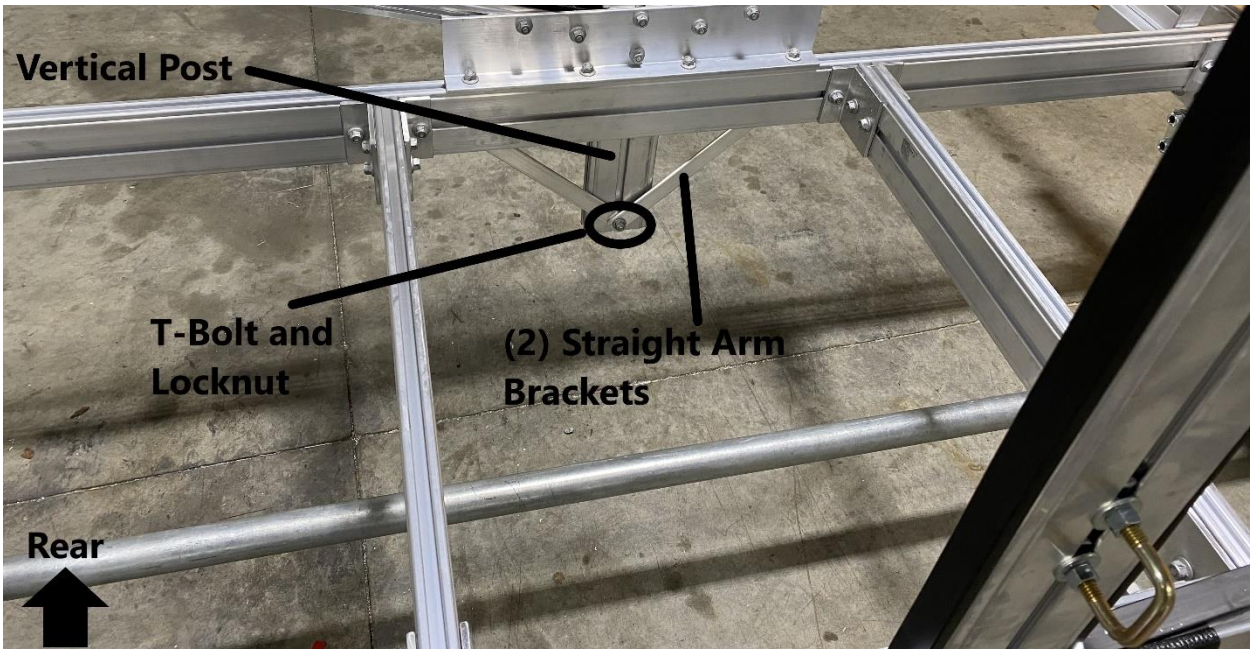
Place (2) T-Bolts from the hardware bag into the groove of the vertical post.

Install the vertical post plate as shown. Install (3) locknuts and tighten using a 9/16" wrench. Repeat this process for the other side of the vertical post.



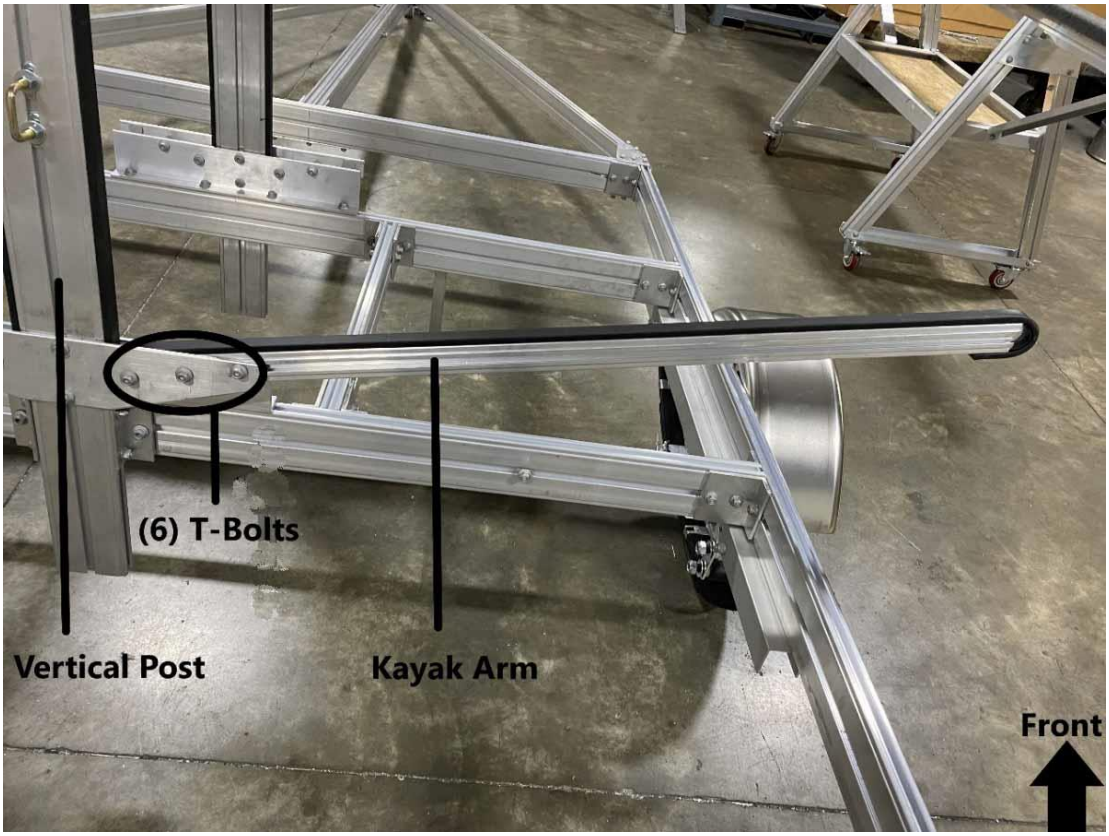
Two people will be necessary to adjust the vertical post. While holding the vertical post, loosen the (2) locknuts and slide the vertical post downward. Tighten the locknuts using a 9/16" wrench.

Repeat the process to install the second vertical post to the trailer.



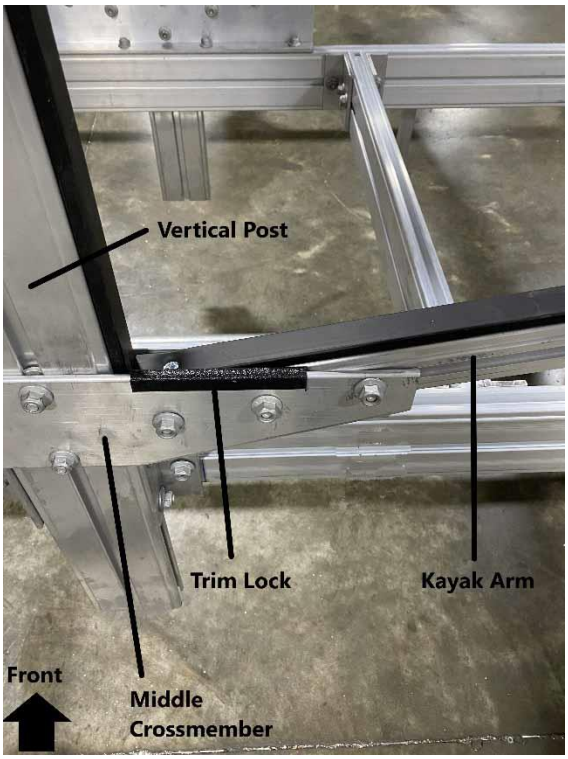
The hanging straight arm brackets will now need to be installed to the vertical post. Install a T-Bolt into the groove of the vertical post. Install both straight arm brackets on T-Bolt. Install a locknut and tighten using a 9/16" wrench. Repeat this process for the second vertical post.

Locate the (8) kayak arm assemblies.

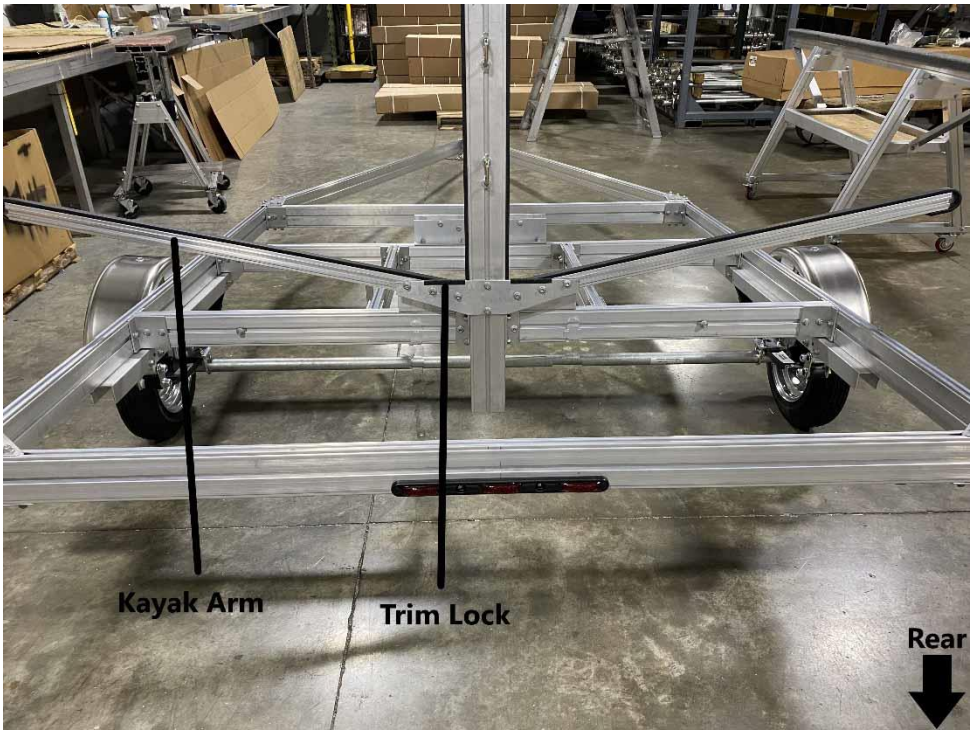


Install the kayak arm to the vertical post as shown. Slide the arm through the (6) T-Bolts, 3 on each side. Tighten the nuts using a 9/16" wrench.

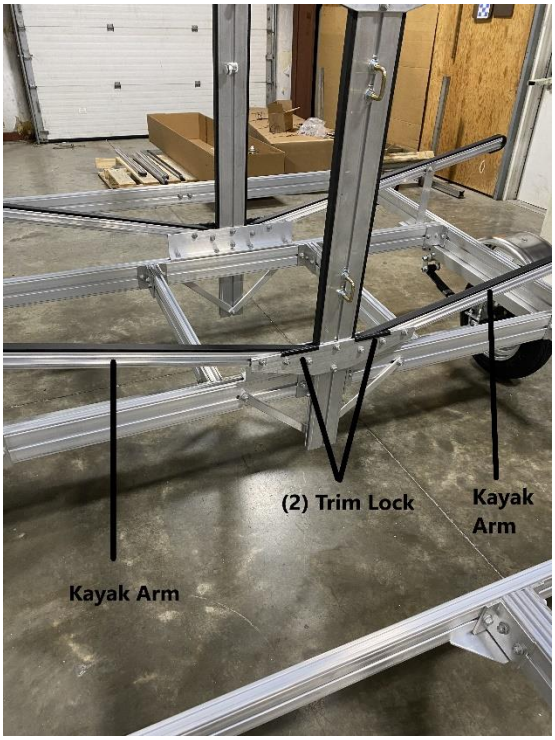
Locate the (12) pieces of trim lock.



Install trim lock to the middle crossmember as shown. Push the trim lock down onto the top of the middle crossmember. This will prevent rubbing between the middle crossmember and the kayak arm.

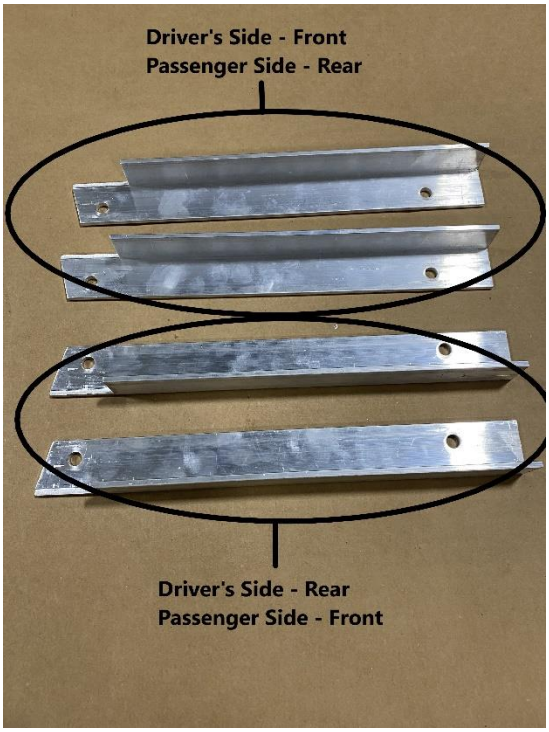


Repeat the process to install a second kayak arm and trim lock to the trailer.

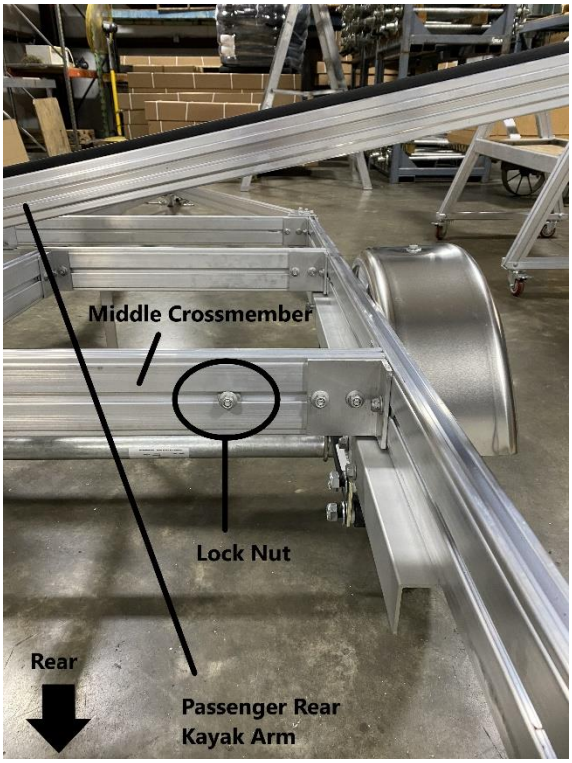


Repeat the process to install (2) kayak arms and (2) trim lock.

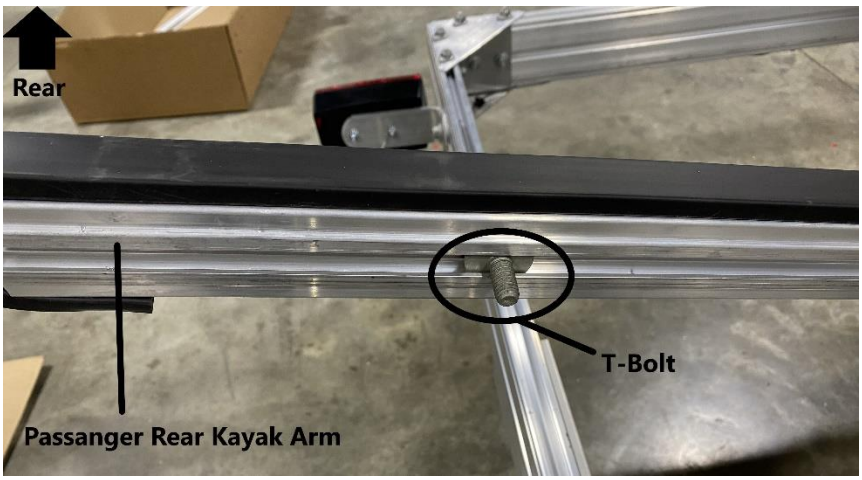
Locate the (4) V-Bar Support Brackets.



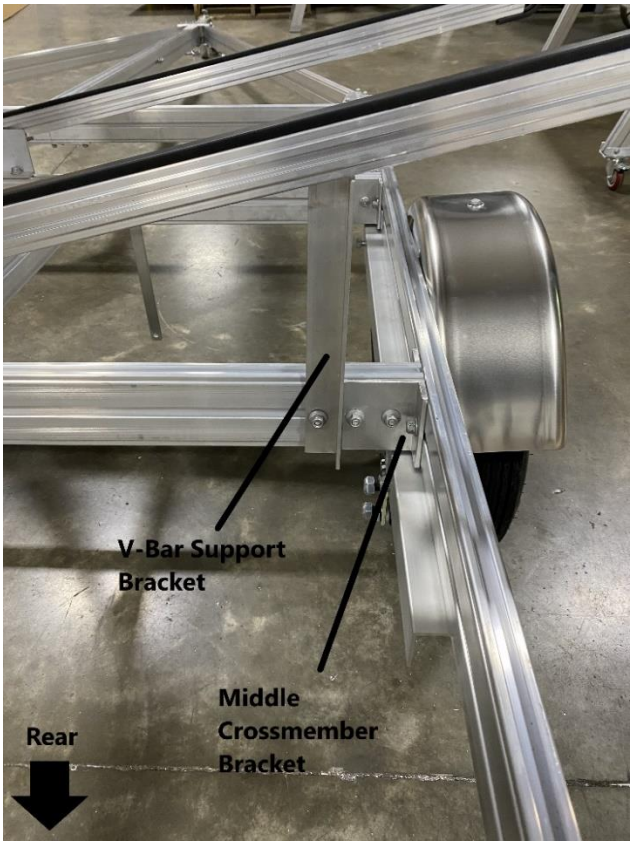
Remove the T-bolts and locknuts from the V-Bar support brackets. See the picture above, this shows where each V-Bar will be used on the trailer.



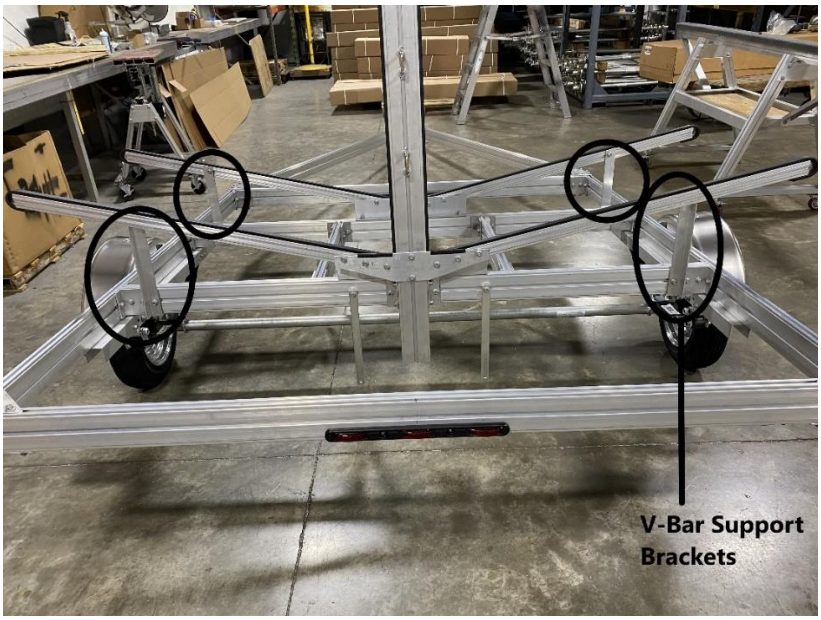
Remove the lock nut on the middle crossmember, underneath the passenger rear kayak arm.



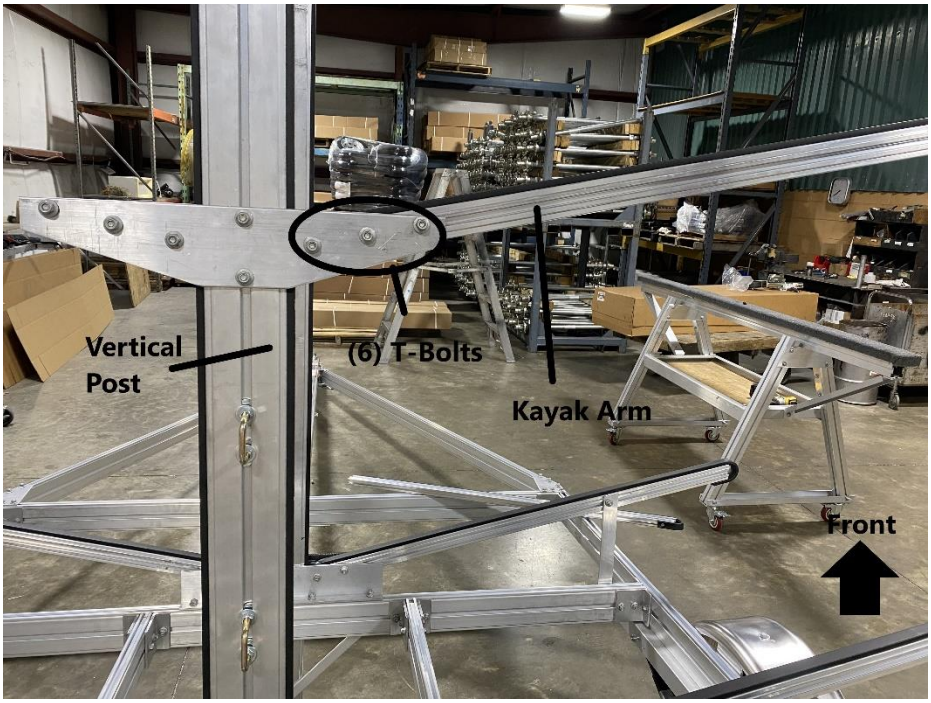
Install a T-Bolt in the groove of the passenger rear kayak arm. This will be the groove that is facing the front of the trailer.



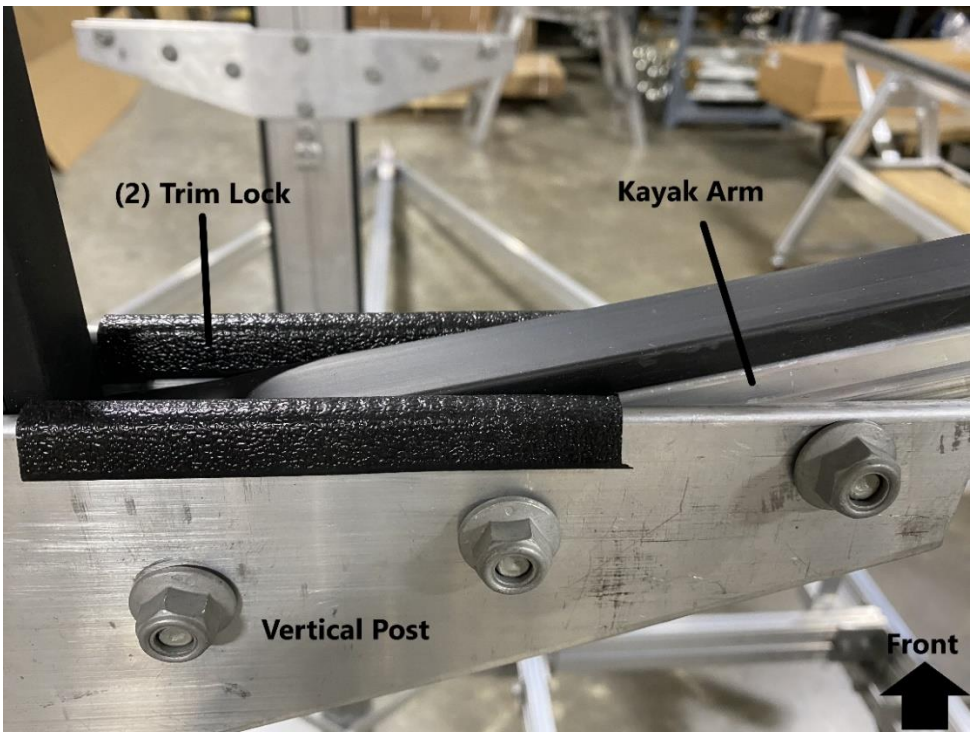
Install the V-Bar Support bracket as shown. Install the V-Bar support bracket to the T-bolt on the middle crossmember and the T-Bolt on the passenger rear kayak arm. Move the V-Bar Support so that it sits next to the middle crossmember bracket. Replace the locknuts and tighten with a 9/16" wrench.



Repeat the process to install all (4) V-Bar Support Brackets.



Repeat the process to install a kayak arm to the vertical post as shown. Tighten the (6) T-bolts using a 9/16" wrench.

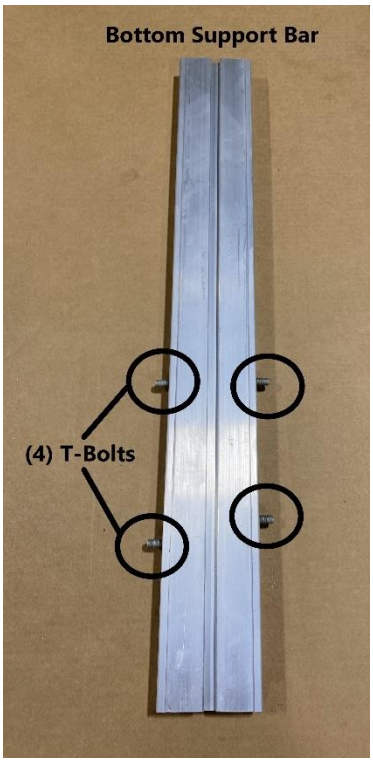


Use (2) pieces of trim lock on the kayak arms that are installed on the upper level of the vertical post.

Repeat the process to install all (8) kayak arms to the vertical posts.

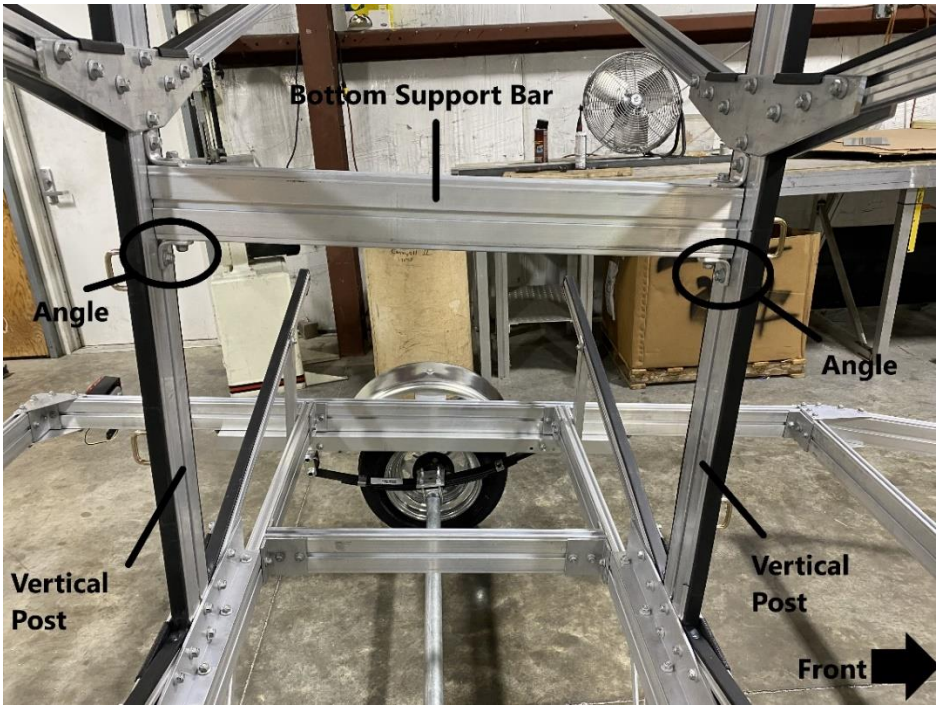
Tighten all the locknuts on the (2) vertical posts using a 9/16” wrench.

Locate the bottom support bar.



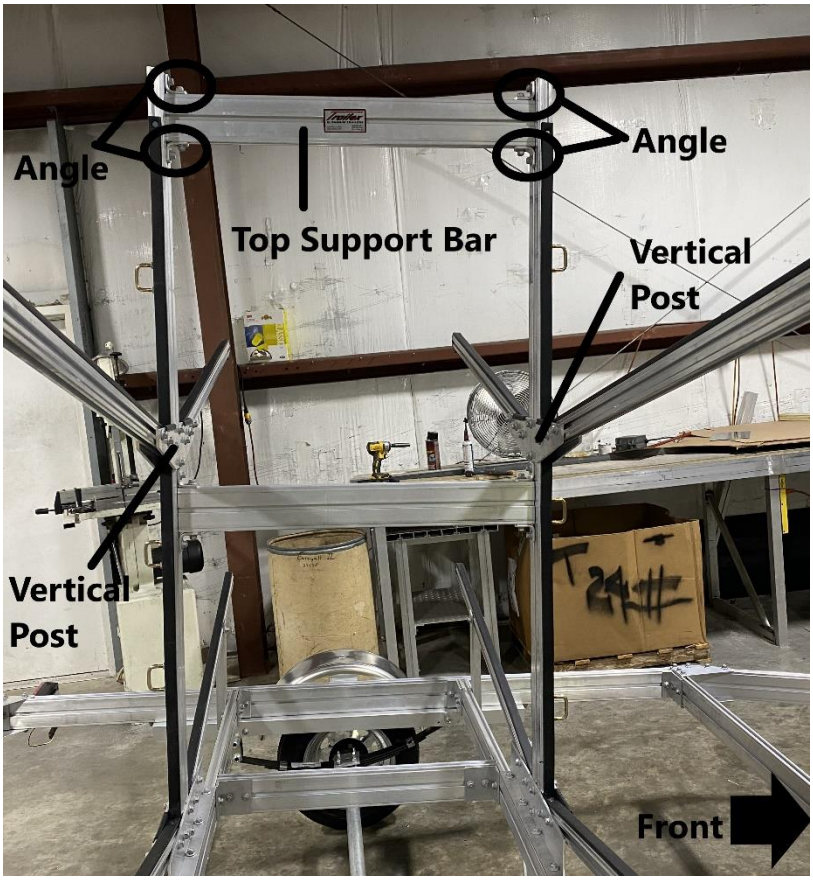
Install (4) T-Bolts into the grooves of the bottom support bar.

Install the bottom support bar as shown. Locate the (2) angles found on the (2) vertical posts. Place the (2) T-Bolts that were installed on the bottom support bar through the (2) angles of the vertical posts. Install (2) locknuts and tighten using a 9/16" wrench.



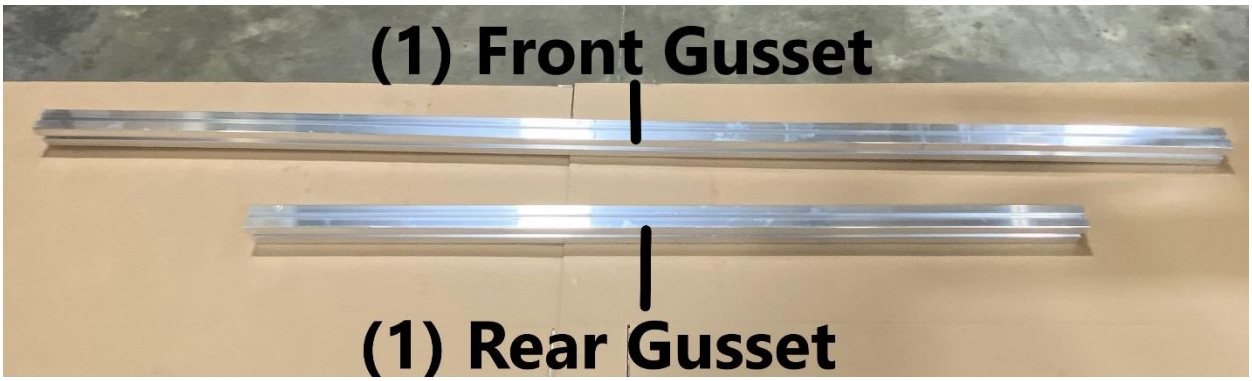
Repeat the process to install the bottom (2) angles of the (2) vertical posts to the bottom support bar.

Locate the top support bar.

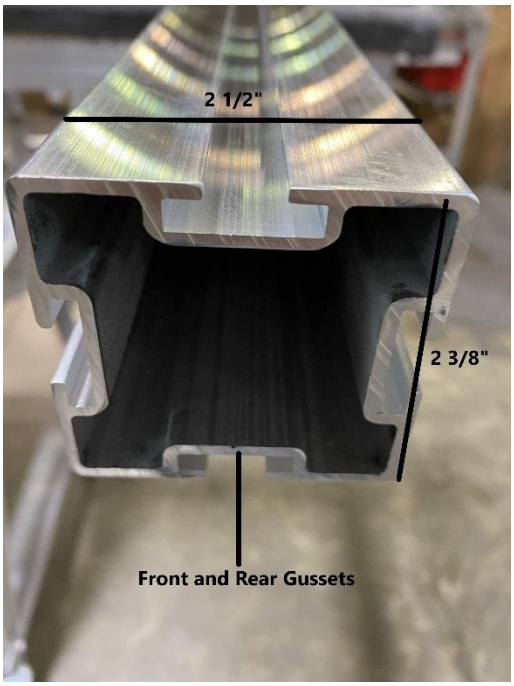


Install the top support bar to the trailer as shown. A ladder will be required for installation of the top support bar. Follow all safety requirements while using the ladder. Slide the (4) T-Bolts installed on the (4) angles into the grooves of the (2) vertical posts. Tighten the (4) locknuts using a 9/16" wrench.

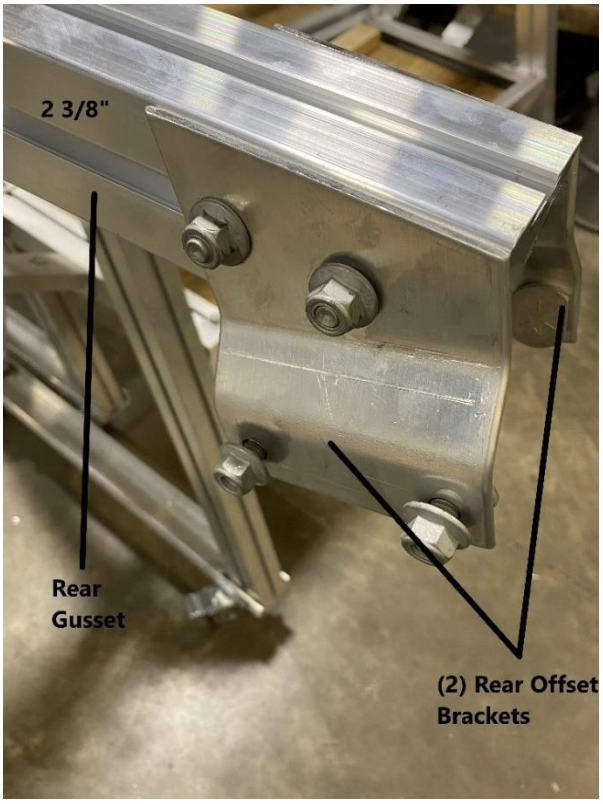
Locate the (2) Rear Offset Plates.



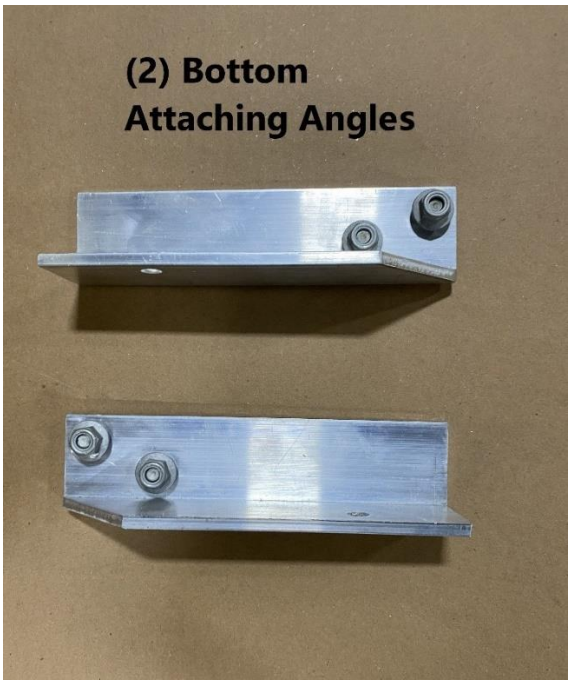
Locate the rear gusset.



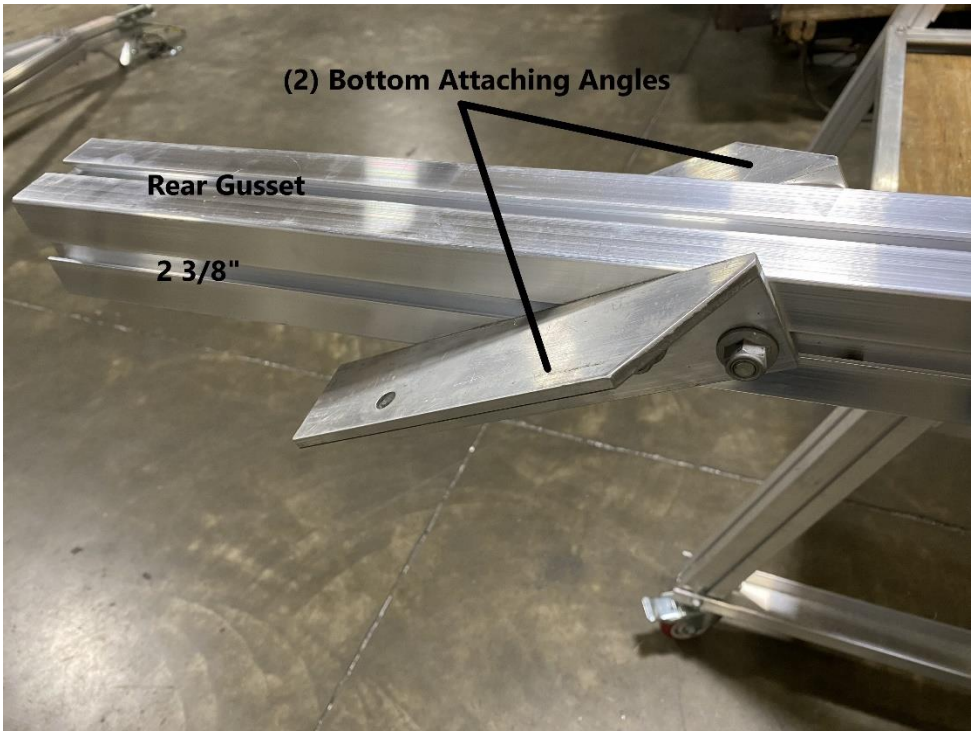
The front and rear gussets are not a perfect square. One side is 2 ½" while the other side is 2 3/8".



Install the (2) rear offset brackets to the 2 3/8” side of the rear gusset. Tighten the locknuts using a 9/16” wrench.

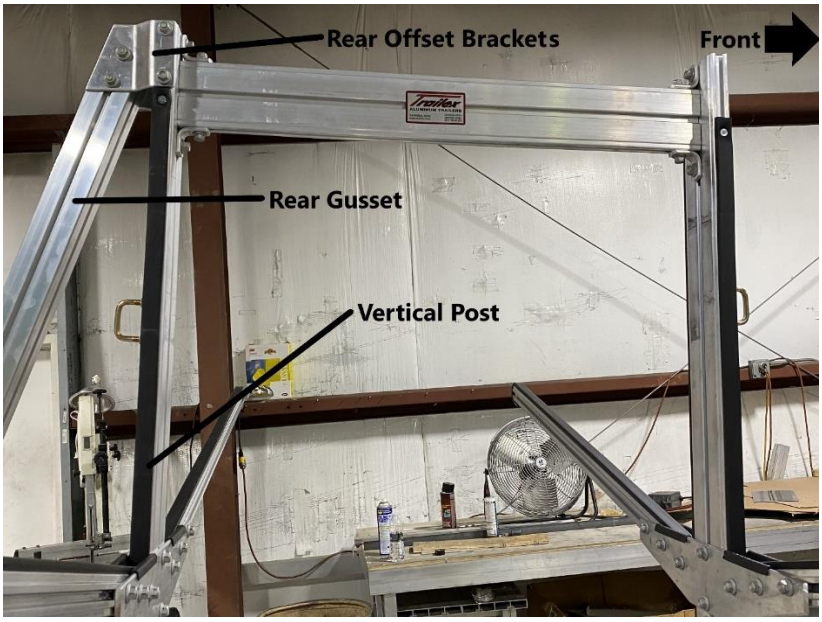


Locate the (2) bottom attaching angles.

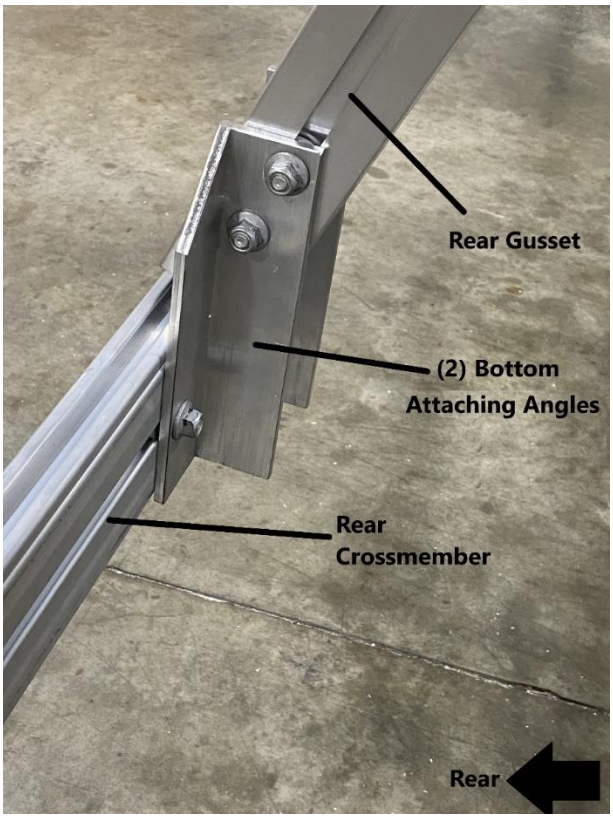


Install the (2) bottom attaching angles to the 2 3/8” side of the rear gusset. Tighten the nuts using a 9/16” wrench.

At this point the rear gusset will look like this.

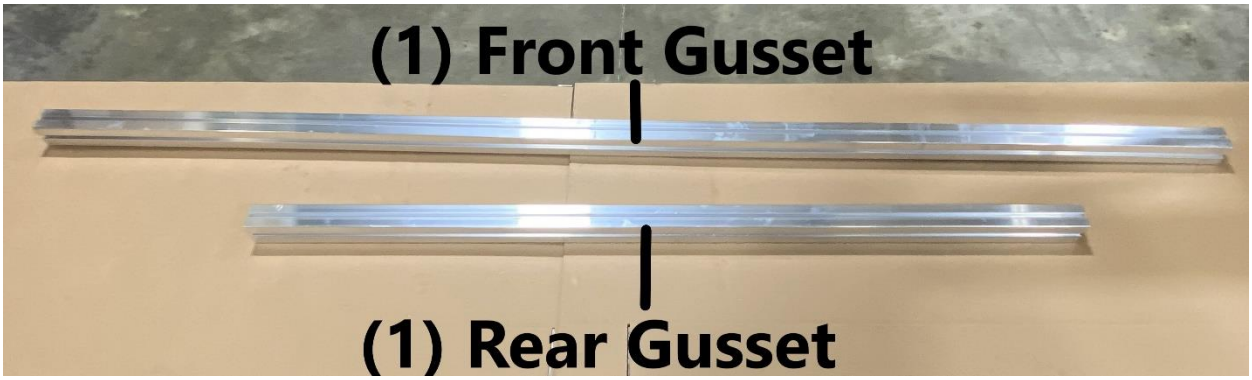


Using a ladder, install the (2) rear offset brackets to the vertical post as shown. Tighten the nuts using a 9/16" wrench.

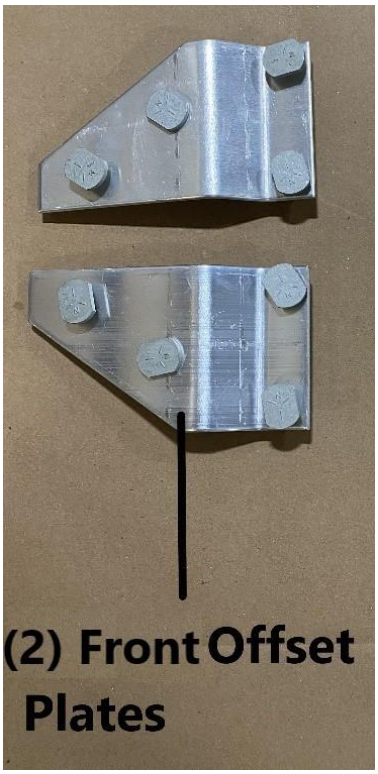


Install the (2) bottom attaching angles to the rear crossmember as shown. Remove the locknuts from the rear crossmember and install the (2) bottom attaching angles. Tighten the locknuts using a 9/16" wrench.

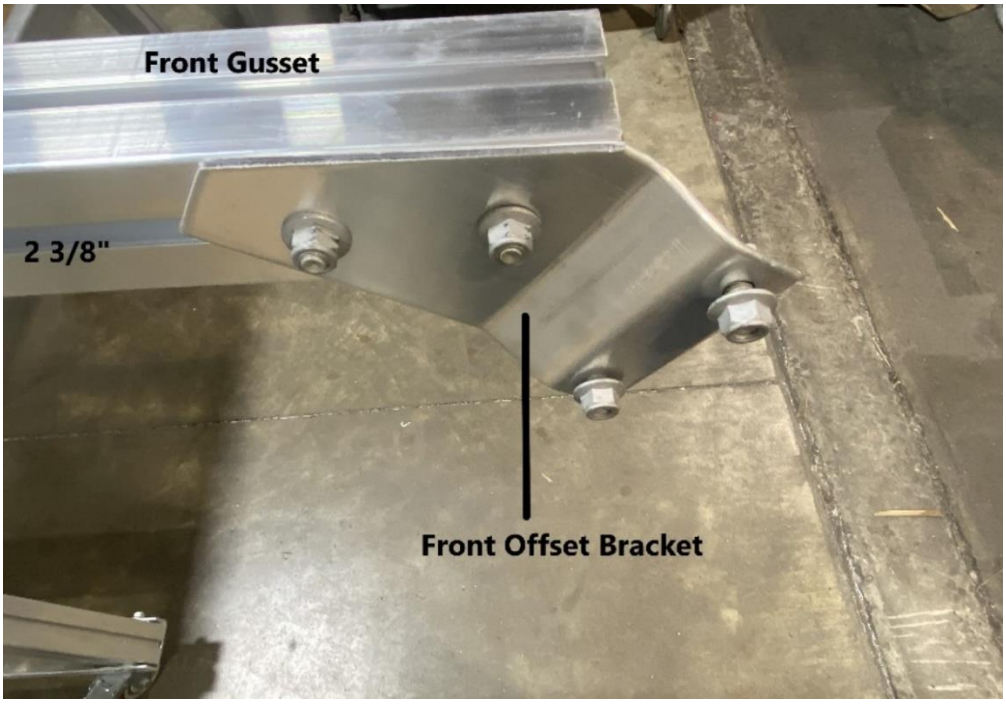
At this point the trailer looks like this.



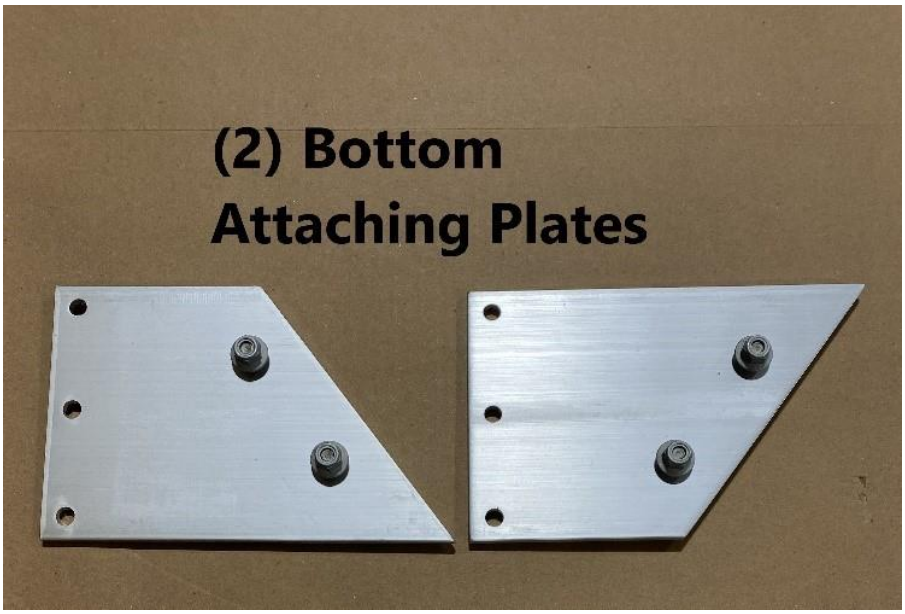
Locate the front gusset.



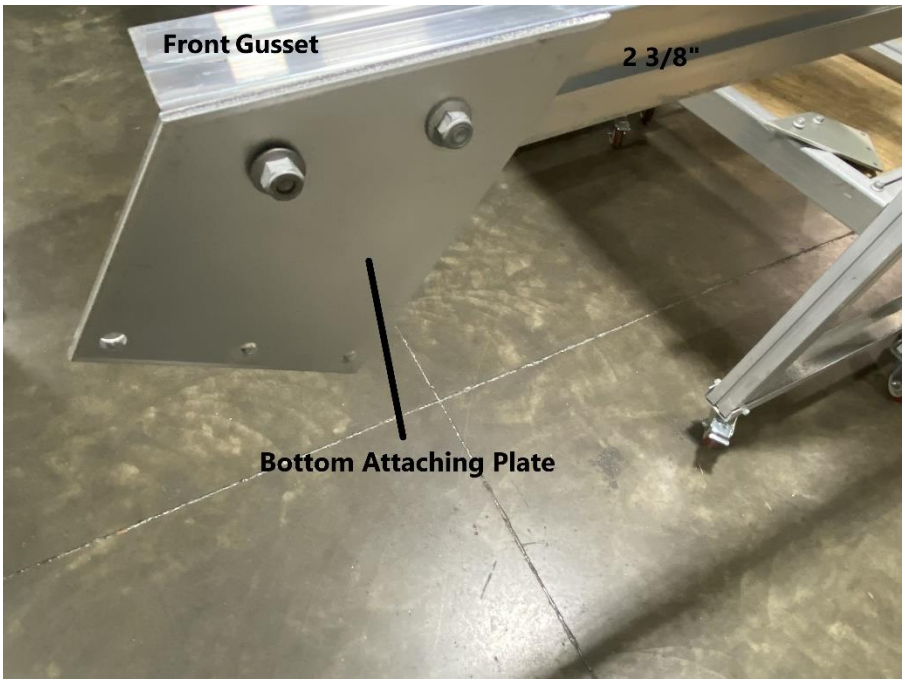
Locate the (2) front offset plates.



Install (1) front offset bracket to the 2 3/8” side of the front gusset as shown. Tighten the nuts using a 9/16” wrench.



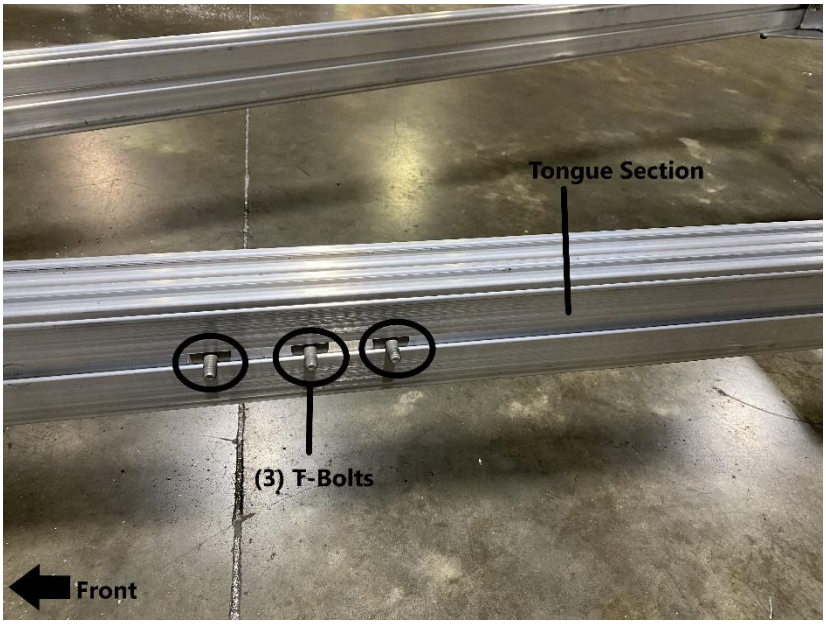
Locate the (2) bottom attaching plates.



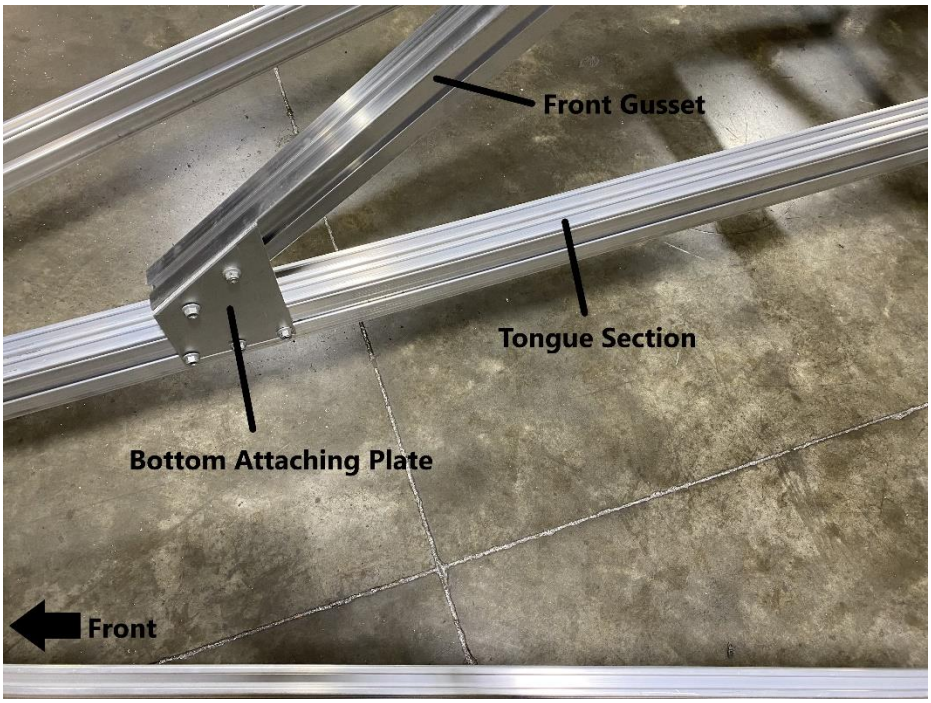
Install (1) bottom attaching plate to the 2 3/8” side of the front gusset as shown. This will be on the same groove that the front offset plate was installed. Tighten the locknuts using a 9/16” wrench.

At this point the front gusset looks like this.

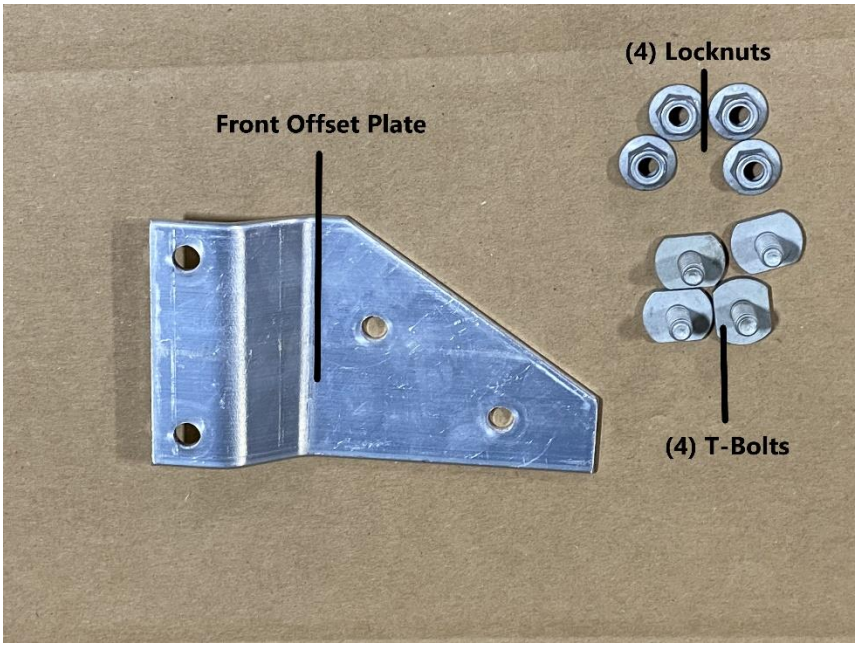
Using a ladder, install the front offset plate and front gusset to the vertical post as shown. Tighten the locknuts using a 9/16” wrench.



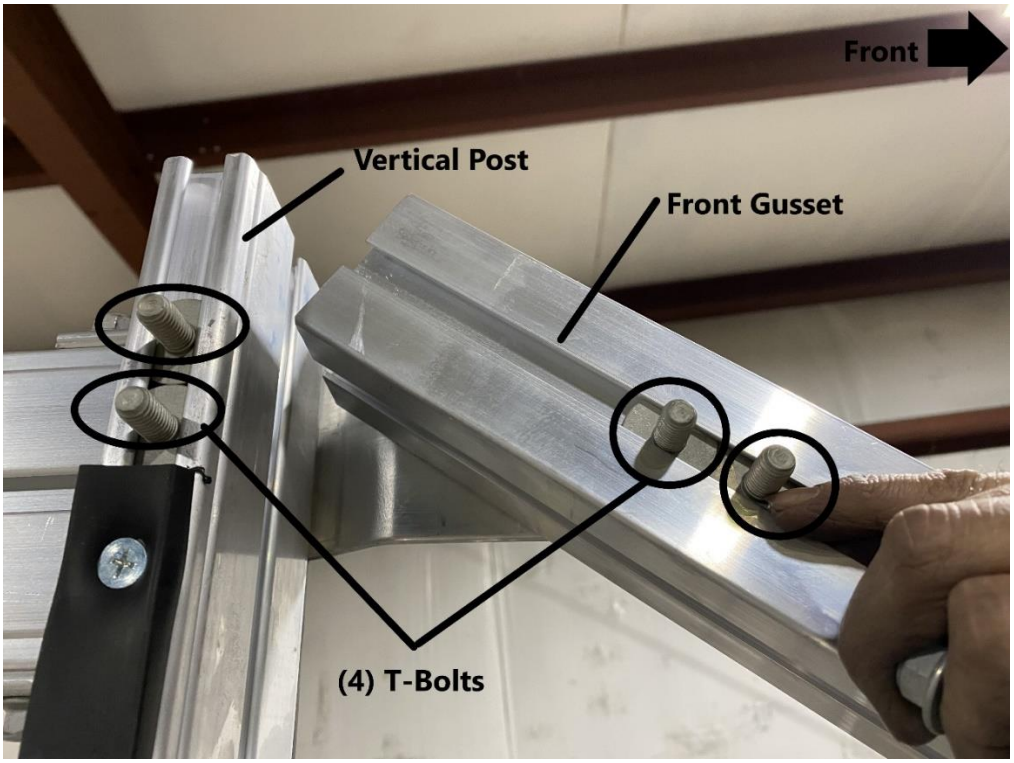
Locate the (3) T-bolts and locknuts installed in the tongue section. Remove the locknuts using a 9/16" wrench.



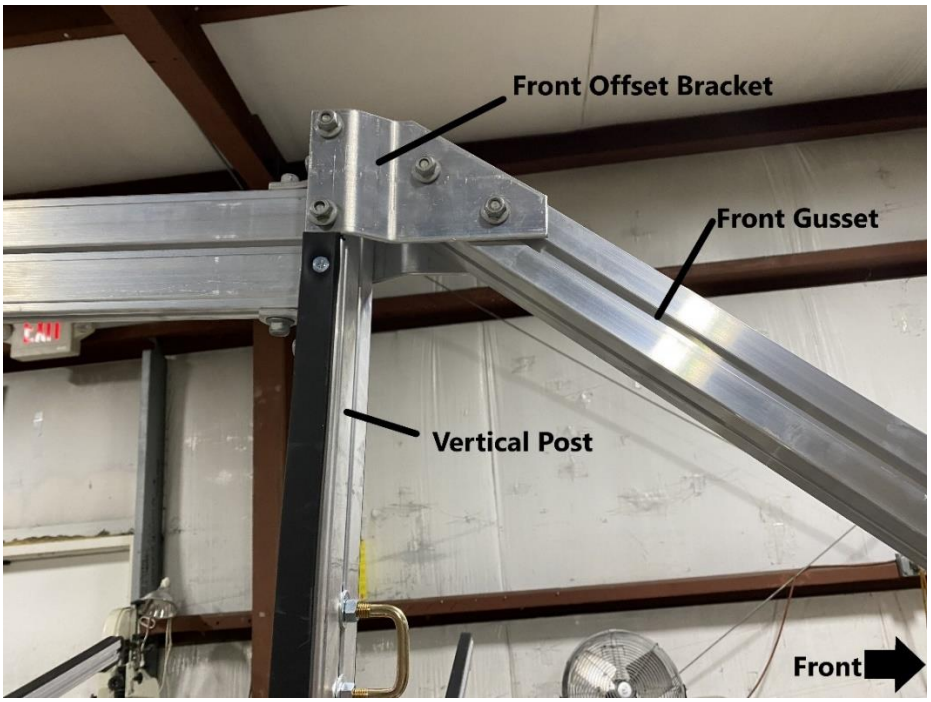
Install the bottom attaching plate and front gusset to the tongue section as shown. Replace the locknuts and tighten using a 9/16" wrench.



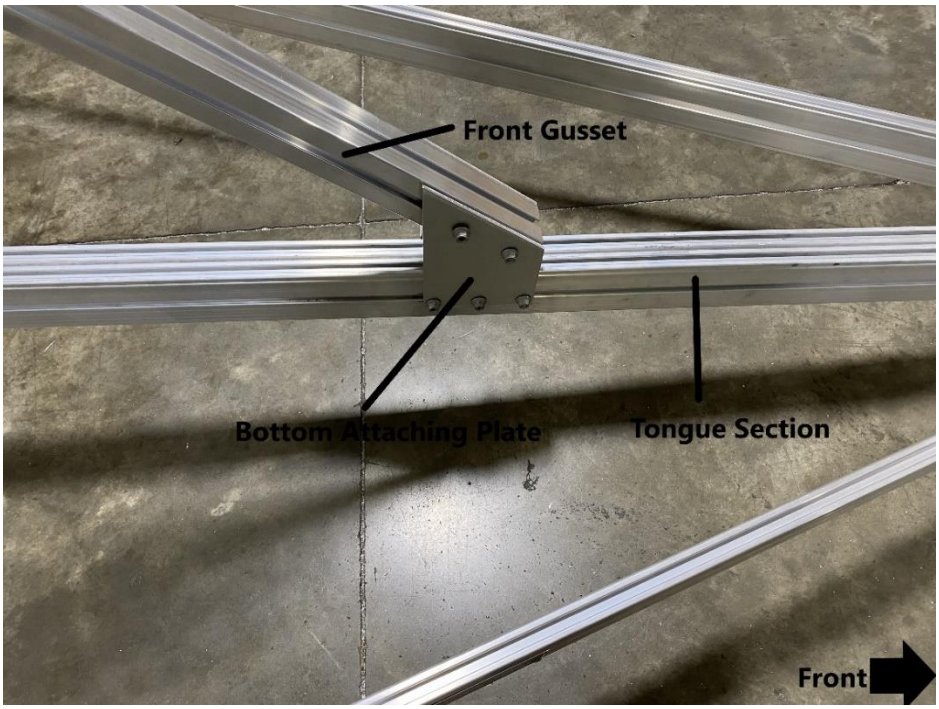
Remove the (4) locknuts and (4) T-Bolts from the remaining front offset plate.



Install (4) T-Bolts to the front gusset and vertical post as shown.



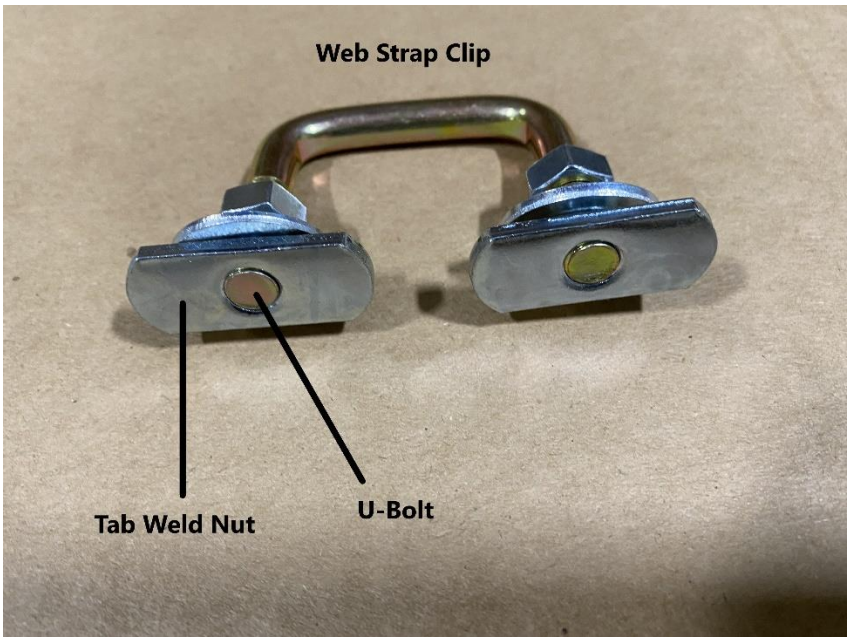
Install the front offset bracket to front gusset and vertical post as shown. Replace the (4) locknuts and tighten using a 9/16" wrench.



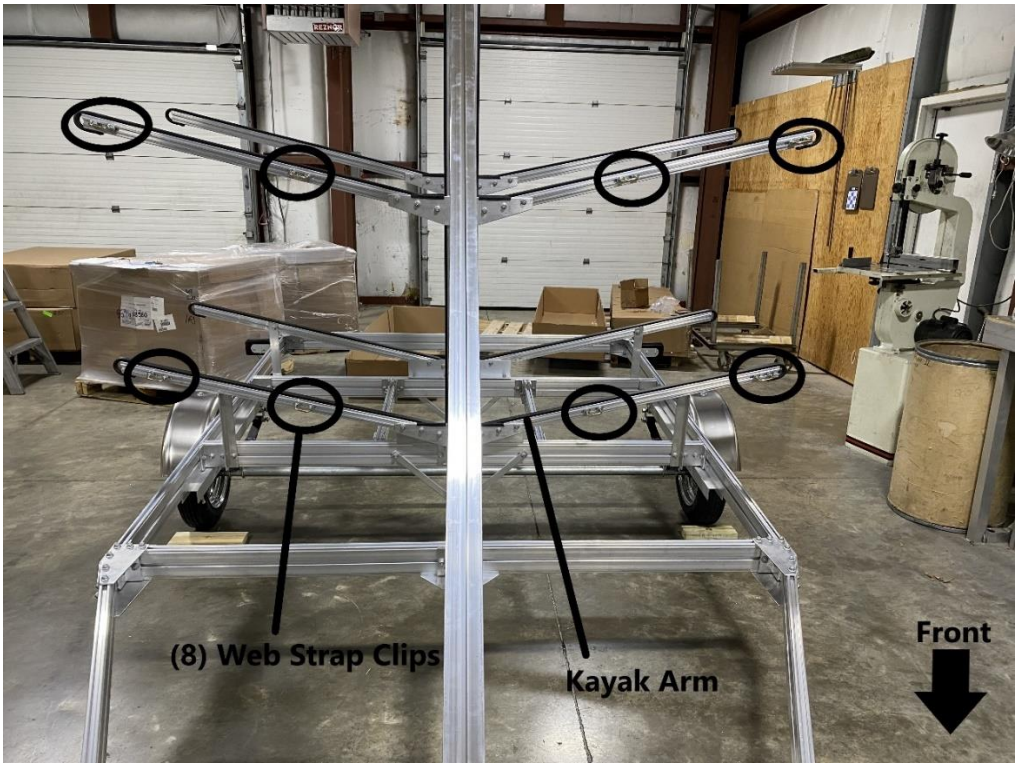
Install the second bottom attaching plate as shown. Remove the (3) locknuts from the (3) T-Bolts in the tongue section. Insert (2) T-Bolts into the front gusset and install the bottom attaching plate. Replace the locknuts and tighten using a 9/16" wrench.

At this point the trailer looks like this.

Locate (16) web strap clips.

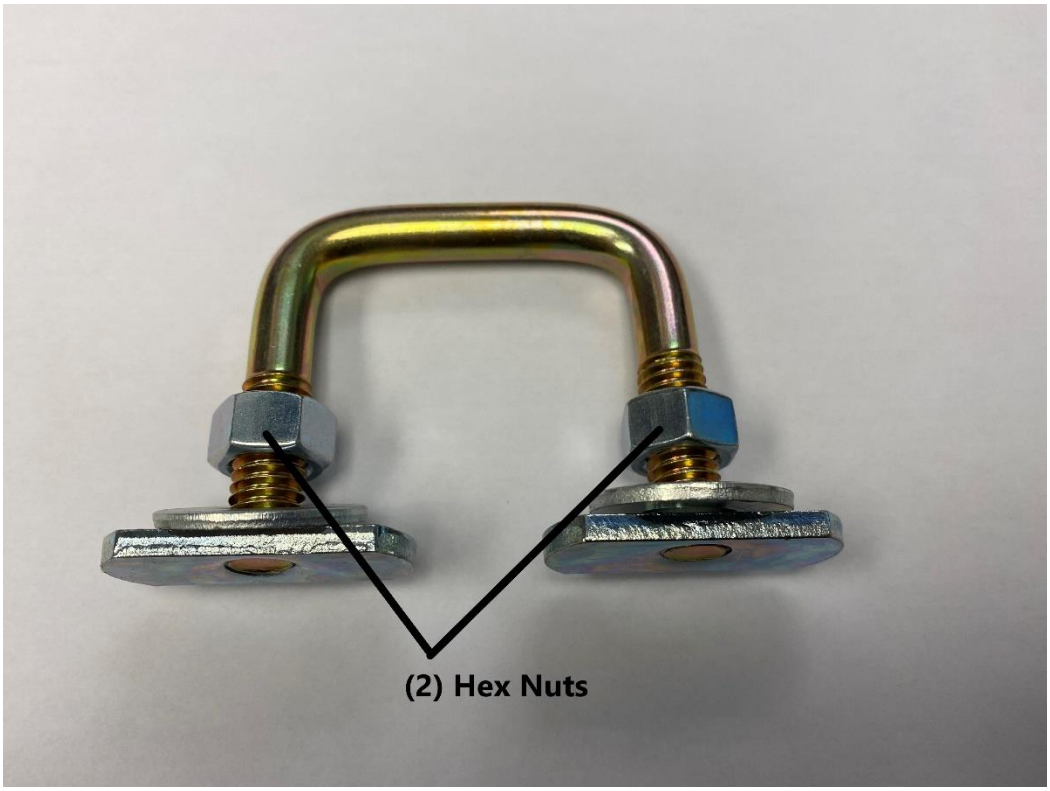


Before installing a web strap clip, make sure that the tab weld nut is flush with the end of the U-bolt.



Install (8) web strap clips into the (4) front kayak arms as shown. Slide the tab weld nuts of the web strap clip into the groove of the kayak arms.

Repeat the process to install the (8) remaining web strap clips to the rear kayak arms.



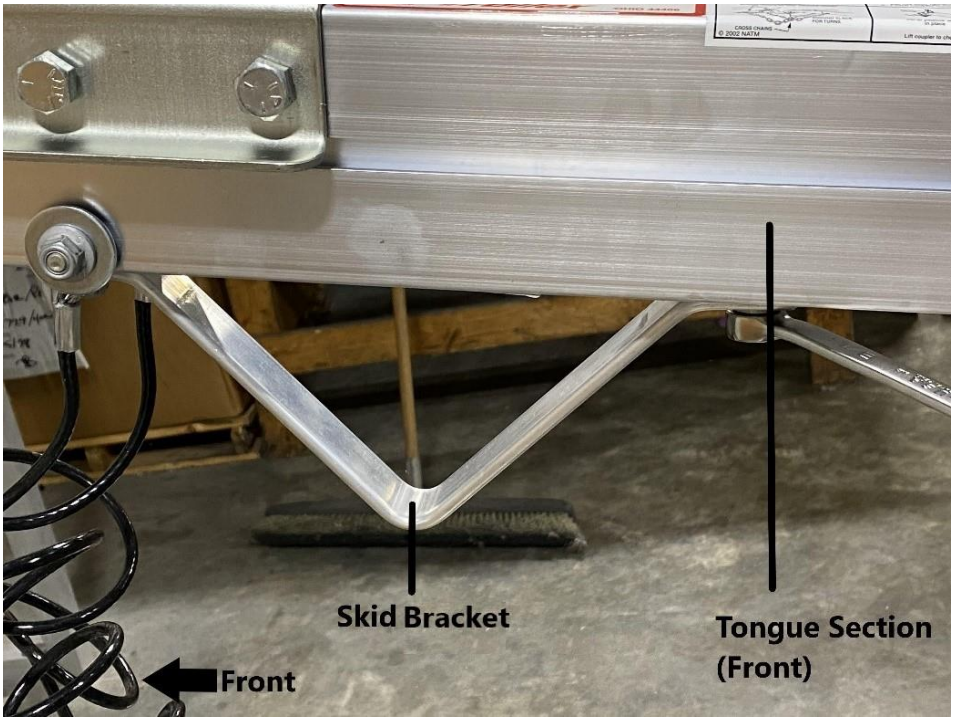
Tighten the (2) hex nuts on each web strap clips using a 9/16” wrench.

The trailer is now assembled. Connect the flat four prong harness to the tow vehicle and confirm that all lights are in working order. Connect the safety cables to the tow vehicle in a crossing pattern. Connect the coupler to the hitch ball and confirm that the size of the coupler matches the hitch ball. Use a lock to confirm the coupler is locked in place. Torque the lug nuts after 20 miles to 80 foot pounds.

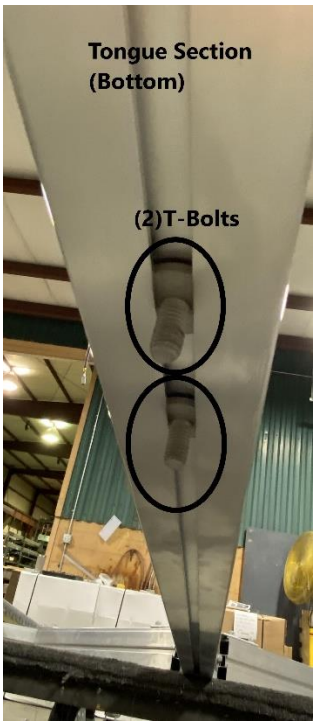
5-215 – SPARE TIRE CARRIER OPTION

Locate the spare tire carrier.

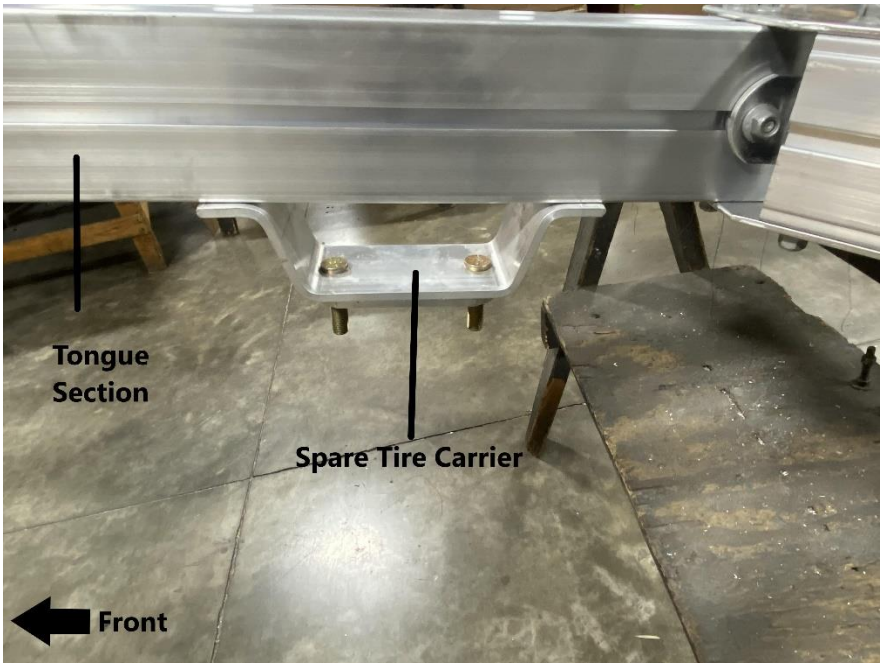
Remove the (2) T-Bolts, (2) locknuts, and (2) lug nuts as shown.



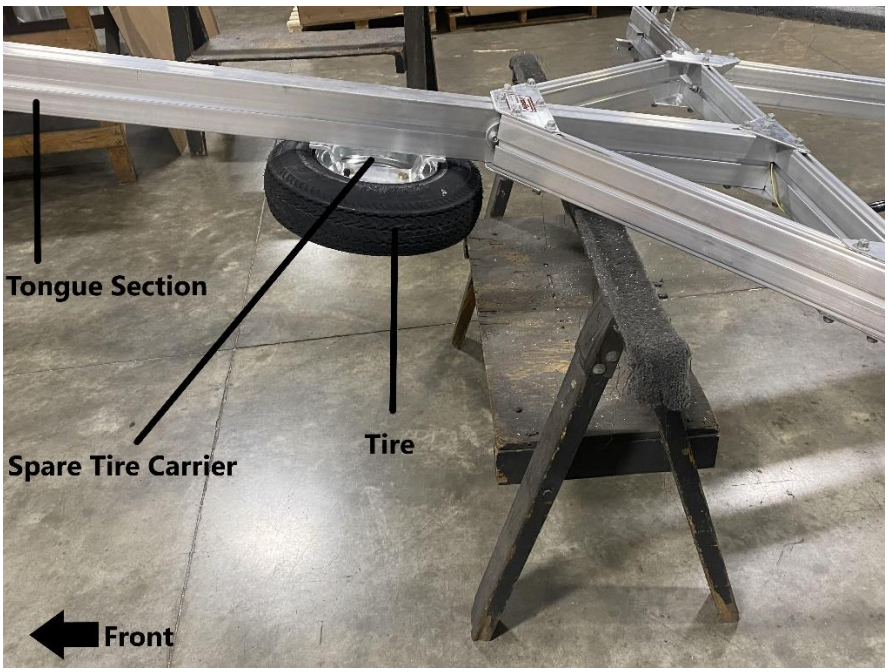
If equipped, the skid bracket will need to be removed before installing the spare tire carrier. Remove the nuts using a 9/16" wrench and then remove the skid bracket from the bottom of the tongue section.



Place the (2) T-bolts that were removed from the spare tire carrier into the groove on the bottom of the tongue section.



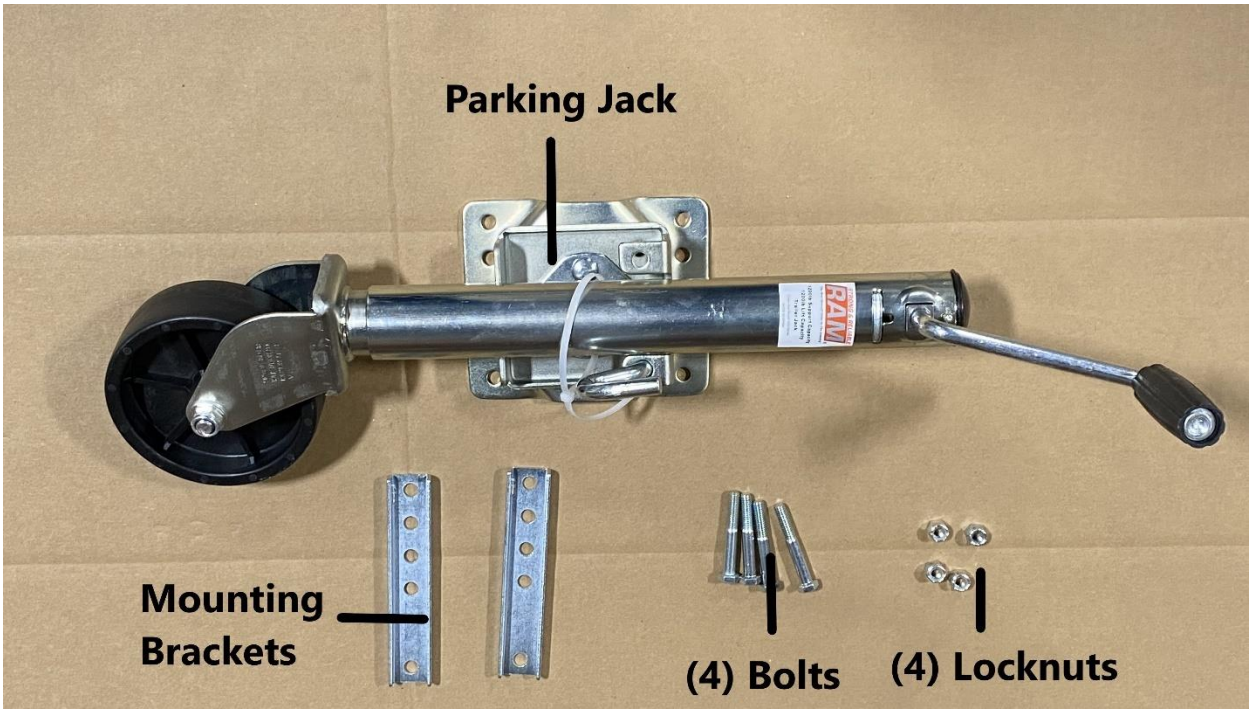
Mount the spare tire carrier to the T-bolts that were placed in the groove on the bottom of the tongue section. Tighten the locknuts using a 9/16” wrench.



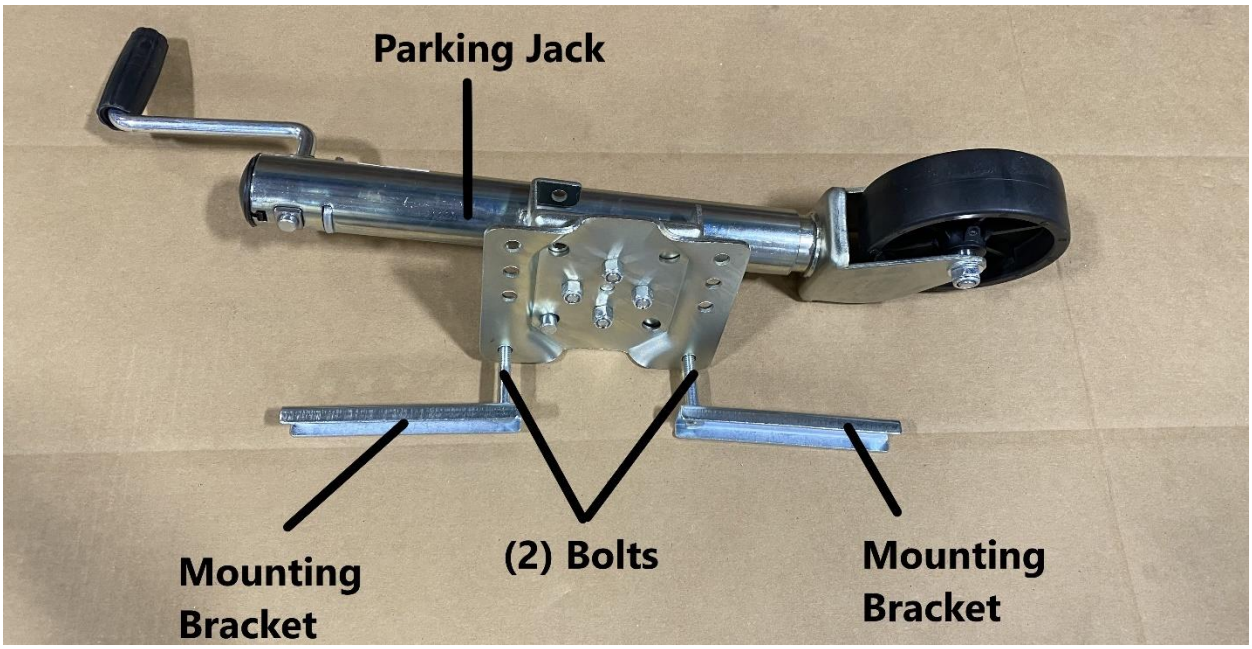
Mount the tire to the spare tire carrier as shown. Replace and tighten the lug nuts.

Re-install the skid bracket if necessary.

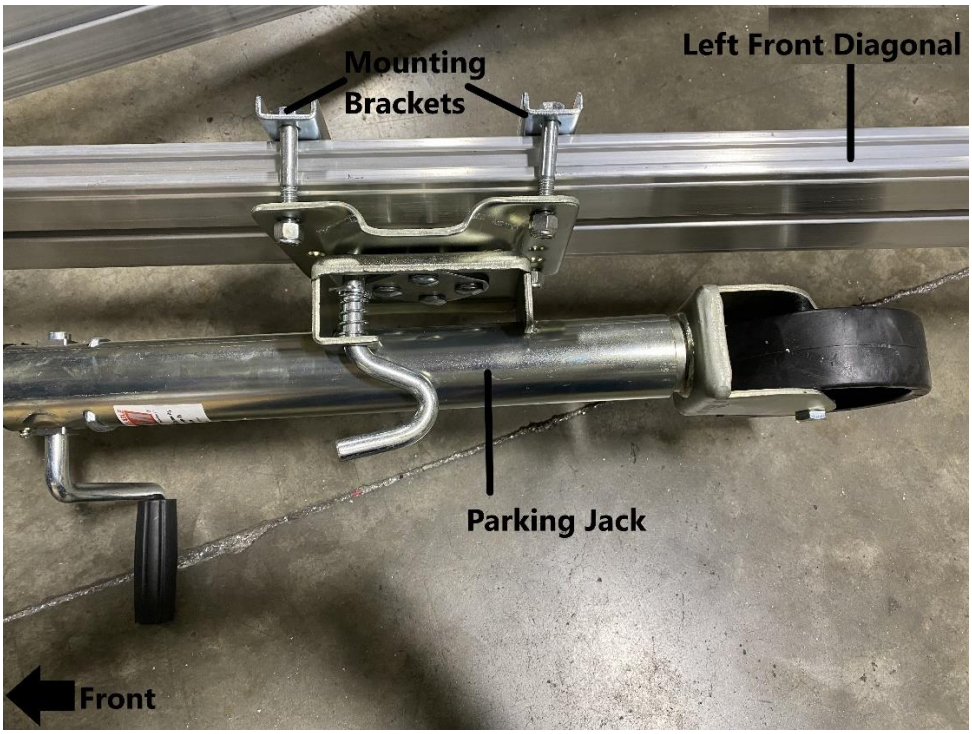
4-517D – PARKING JACK OPTION



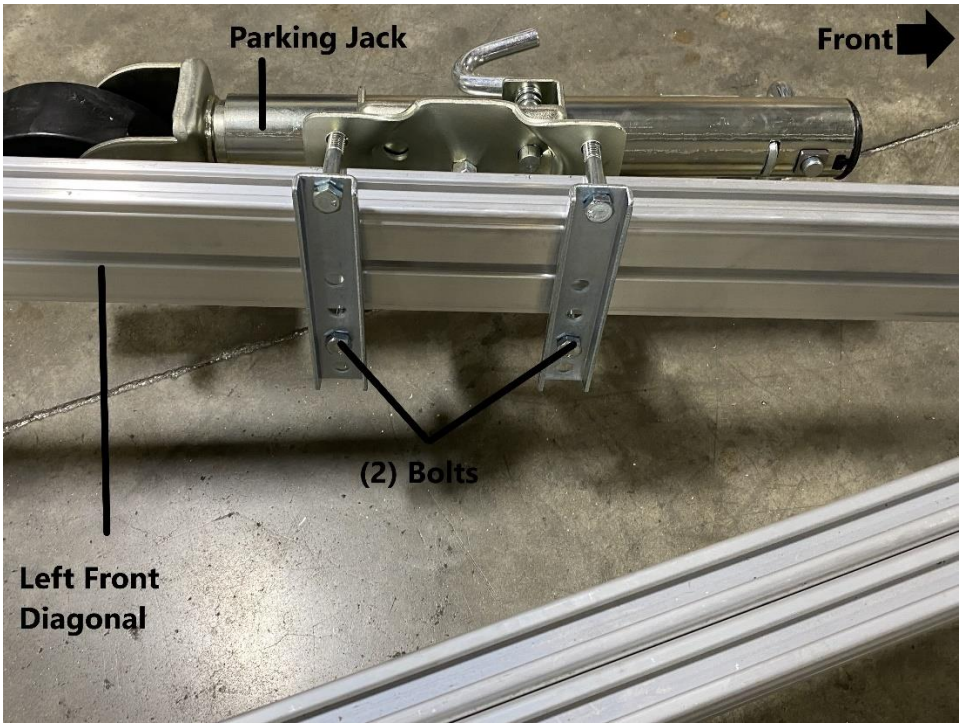
Locate the parking jack, (2) mounting brackets, (4) bolts and (4) locknuts.



Install the (2) mounting brackets to the parking jack using (2) bolts and (2) locknuts as shown.



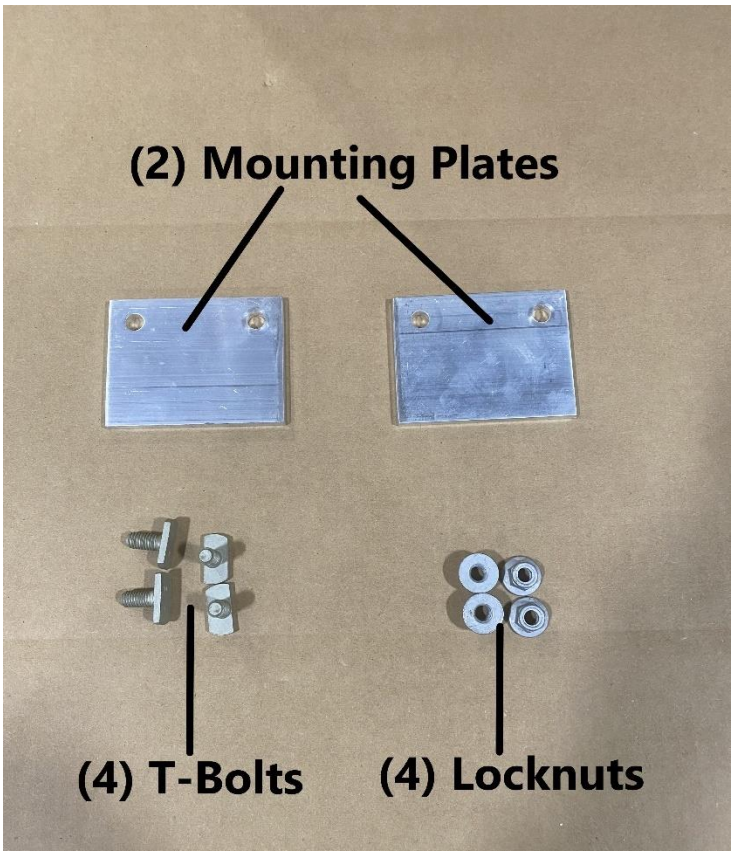
Install the parking jack to the left (driver's side) front diagonal of the trailer as shown. Place the (2) bolts on top of the left front diagonal, with the parking jack facing outside of the trailer.



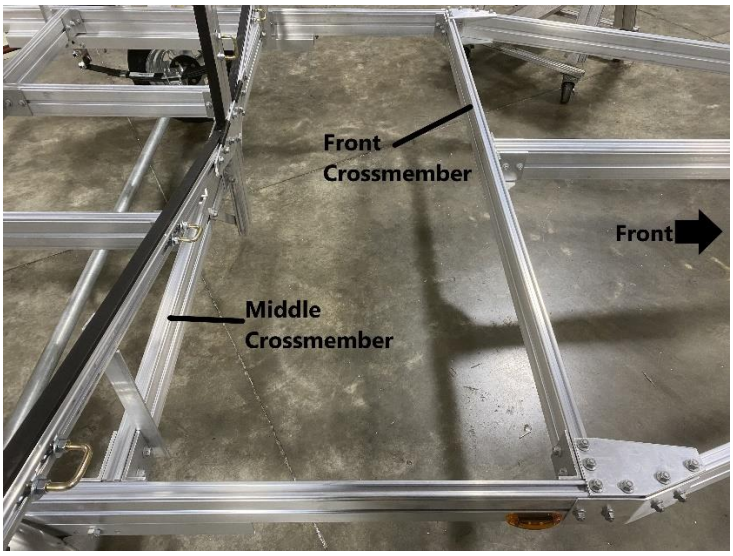
Install the remaining (2) bolts and (2) locknuts to the parking jack. Tighten all locknuts using a 9/16" ratchet and wrench.

When installed, the parking jack will look like this.

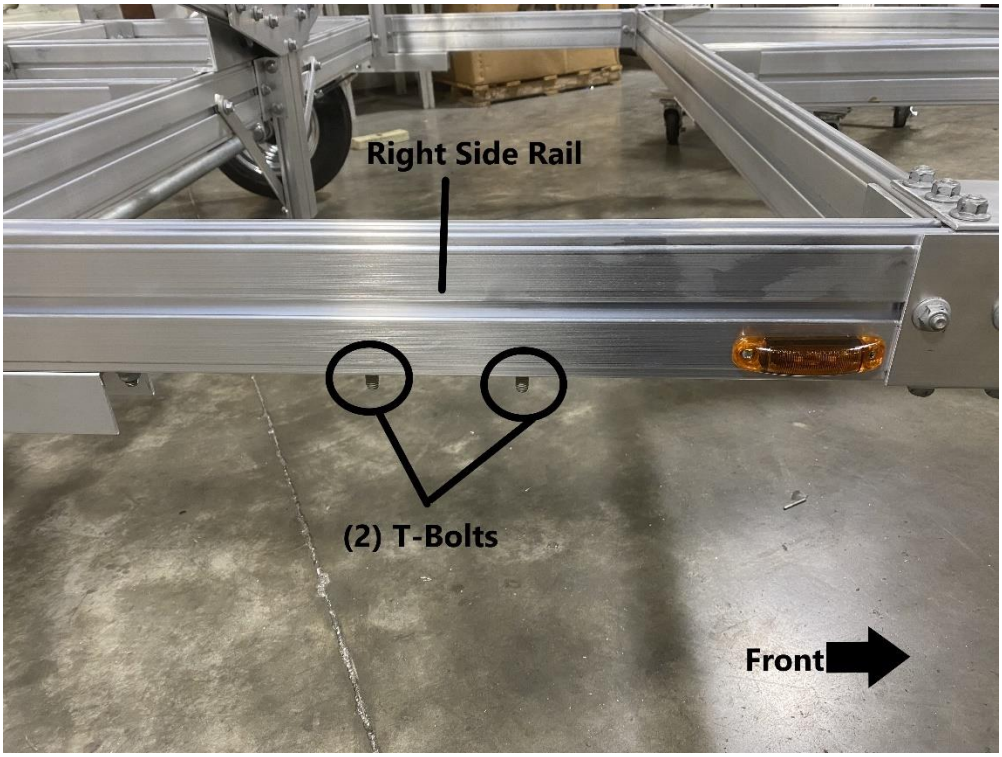
1701418 – Aluminum Storage Box



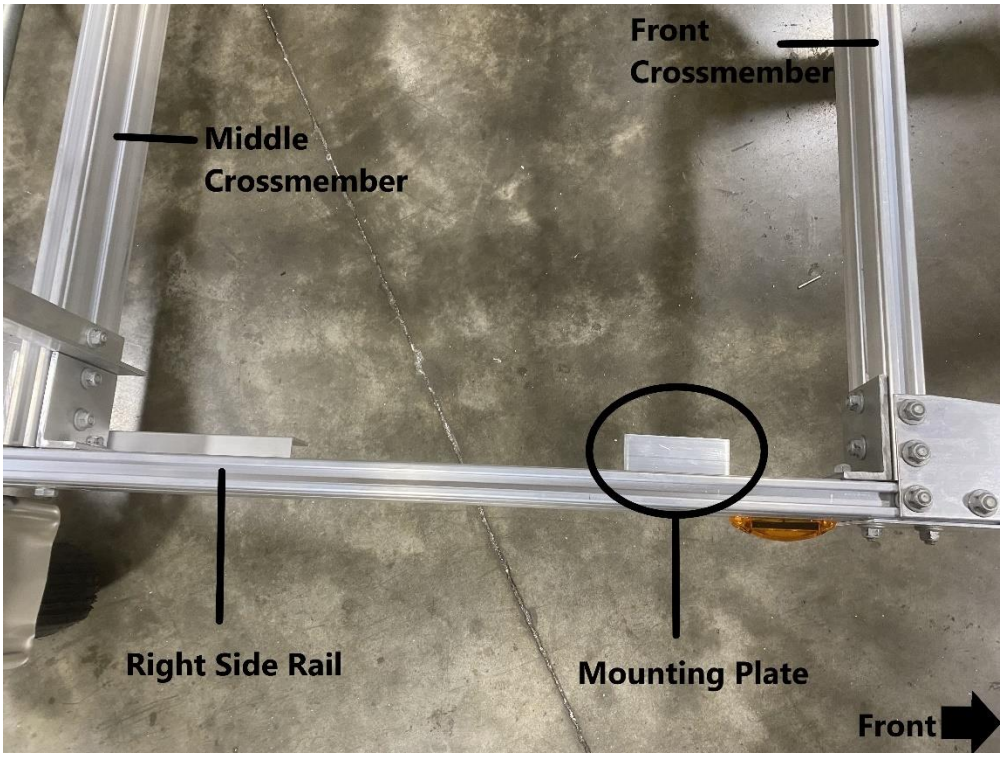
Locate the (2) mounting plates, (4) T-Bolts and (4) locknuts.



Locate the area between the middle crossmember and the front crossmember. This is the location the storage box will be installed.

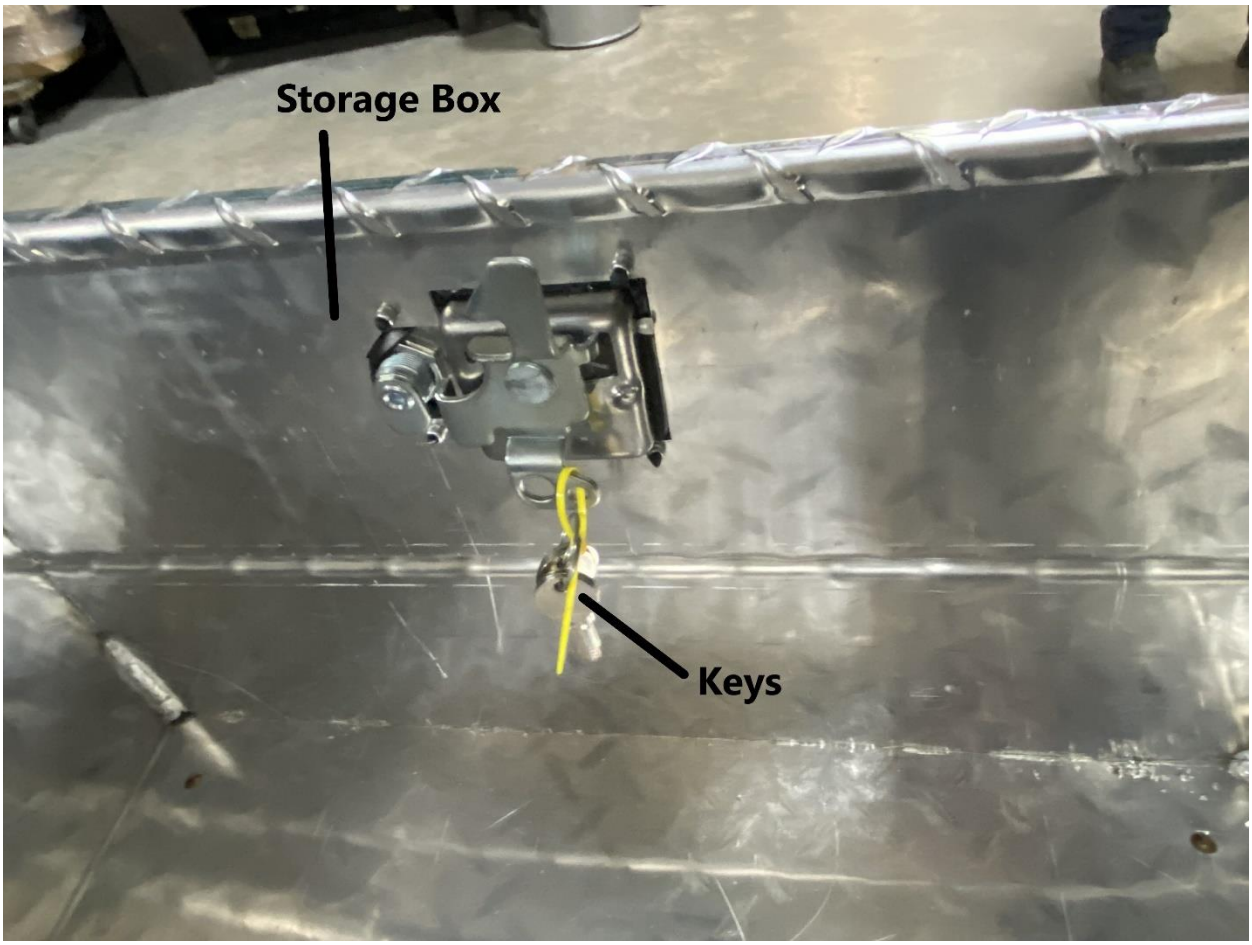


Install (2) T-Bolts to the right side rail as shown.



Install the mounting plate to the (2) T-bolts in the right side sail as shown. Loosely replace the (2) locknuts. Repeat this process on the left side rail.

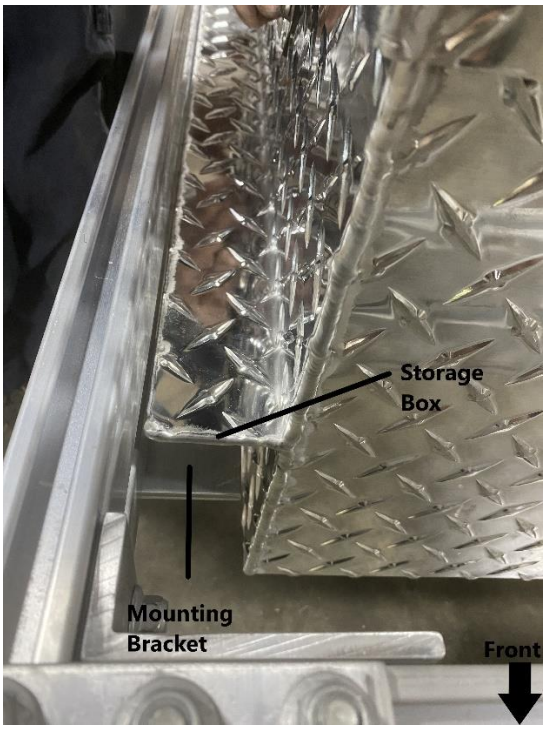
Locate the aluminum storage box.



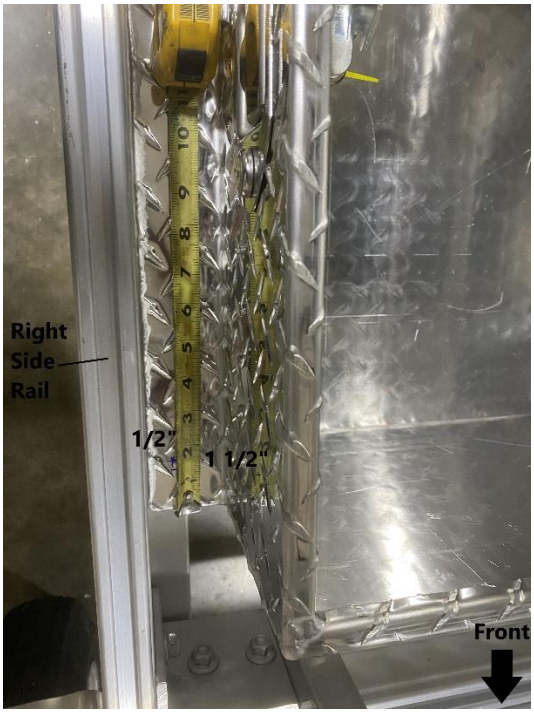
Keys to the storage box will be located inside.

Place the aluminum storage box on the trailer as shown.

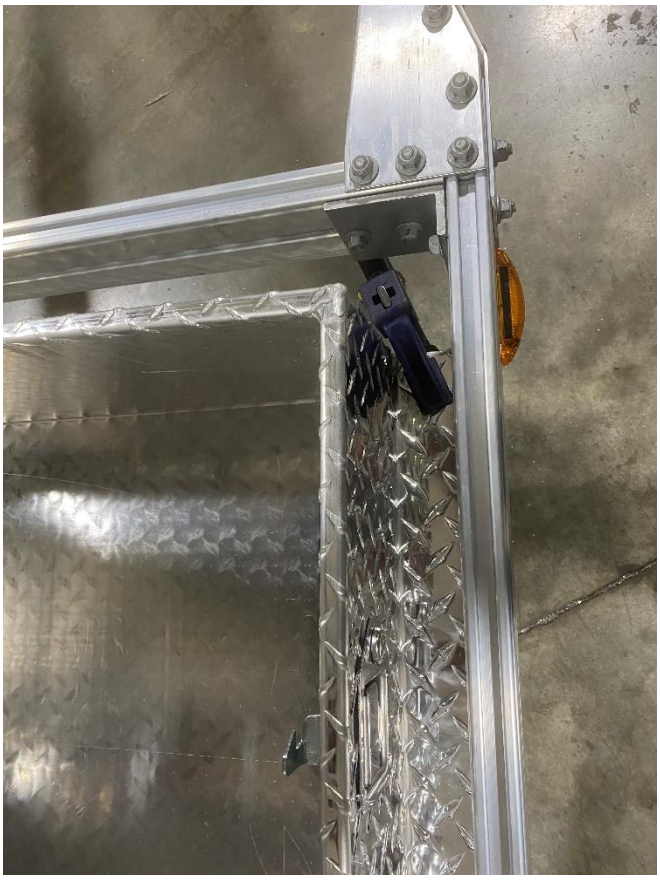
Use measuring tape to confirm that the storage box is centered.



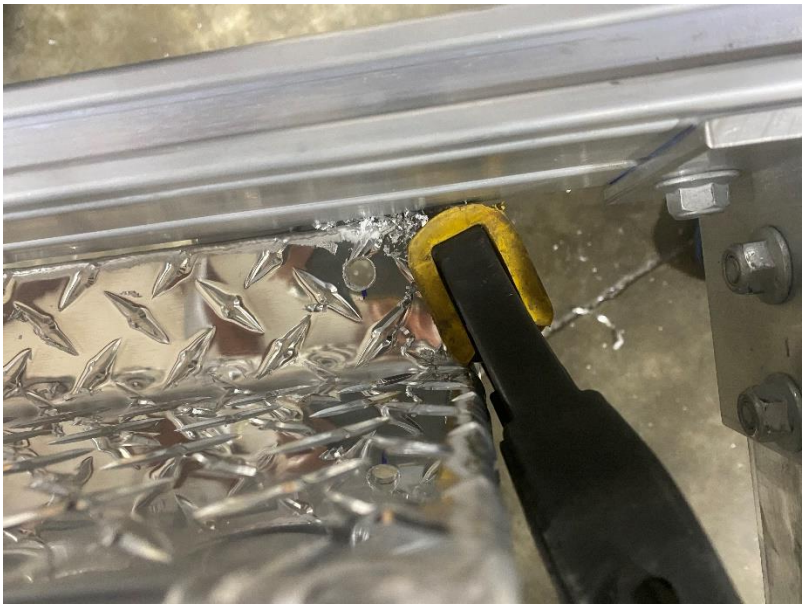
Confirm that the edge of the mounting bracket is flush with the end of the storage box. Tighten the (2) locknuts on each mounting brackets using a 9/16" wrench.



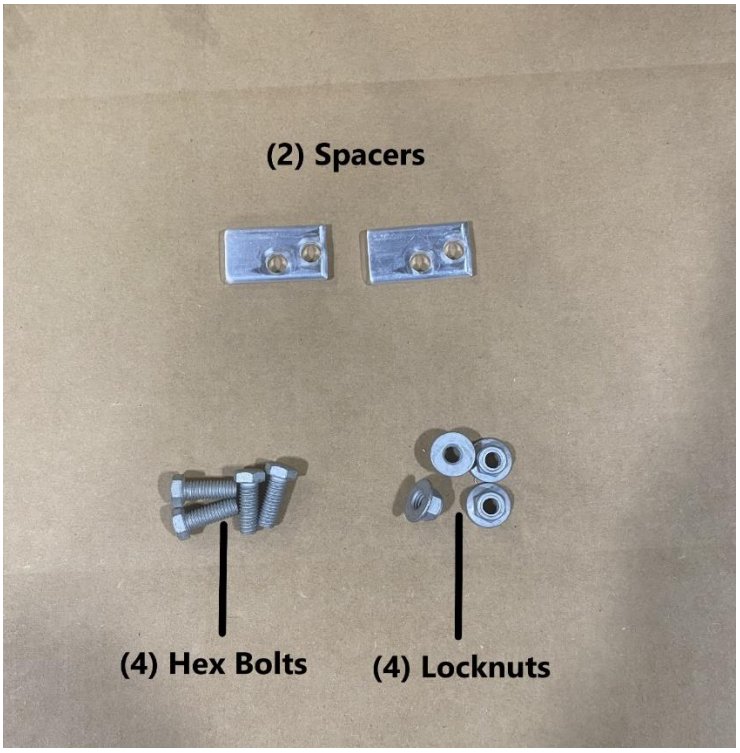
Four holes will now need to be drilled to secure the storage box. Use measuring tape to measure 1 ½" from the edge of the storage box and ½" from the right side rail as shown. Mark the measurements. Repeat this process so there are two marks on the left (driver's side) and two marks on the right (passenger side).



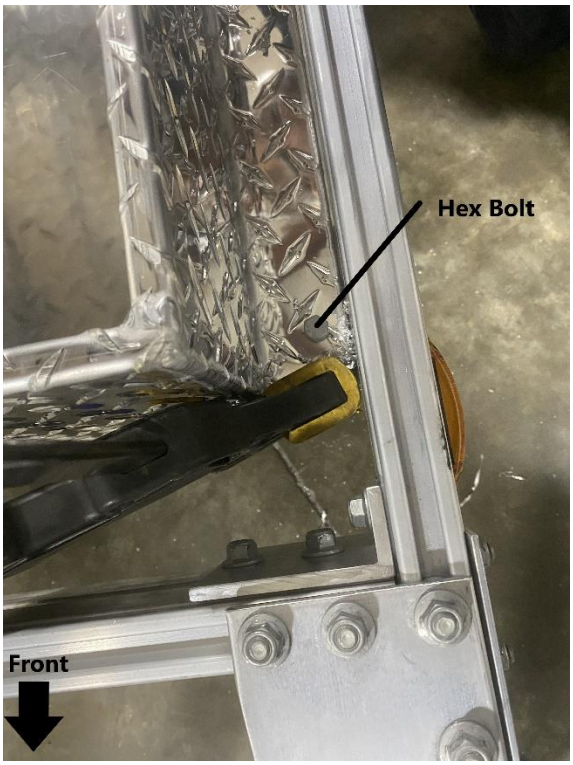
Use “C” Clamps to hold the storage box in place while drilling. Place a “C” Clamp on each side to prevent movement.



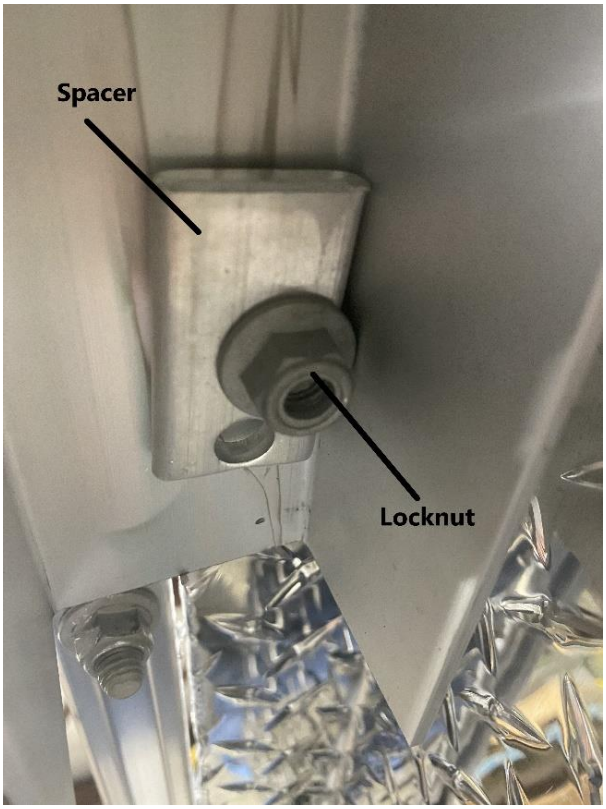
Use a 3/8” drill bit to drill four holes as shown.



Locate (2) spacers, (4) hex bolts and (4) locknuts.



Place (4) hex bolts into the (4) drilled holes.



Install the (4) spacers and (4) locknuts to the (4) hex bolts. Tighten the locknuts using a 9/16” wrench.

When complete, the storage box will look like this.