

# UT-1000-8-04



## **Suggested Tools:**

(2) Saw Horses

Standard Screwdriver

Phillips Screwdriver

Ratchet with 13/16", 9/16", 3/4" Sockets

Torque Wrench

7/16", 9/16", 3/4" Open End Wrench

Pliers

Wire Cutters

Square

Measuring Tape

Electrical Tape

Spray Lubricant

Utility Knife

(4) Wheel Chocks

Ladder

(2) "C" Clamps (for storage box)

Electric Drill (for storage box)

## **ASSEMBLY REQUIREMENTS**

Torque all T-bolt nuts to 35-40 foot pounds.

Check all lights before towing.

Tire pressure not to exceed recommendation on serial tag.

Re-torque wheel nuts after first 25 miles to 80 ft pounds and periodically thereafter.

Failure to follow the assembly instructions could result in serious injury or death.

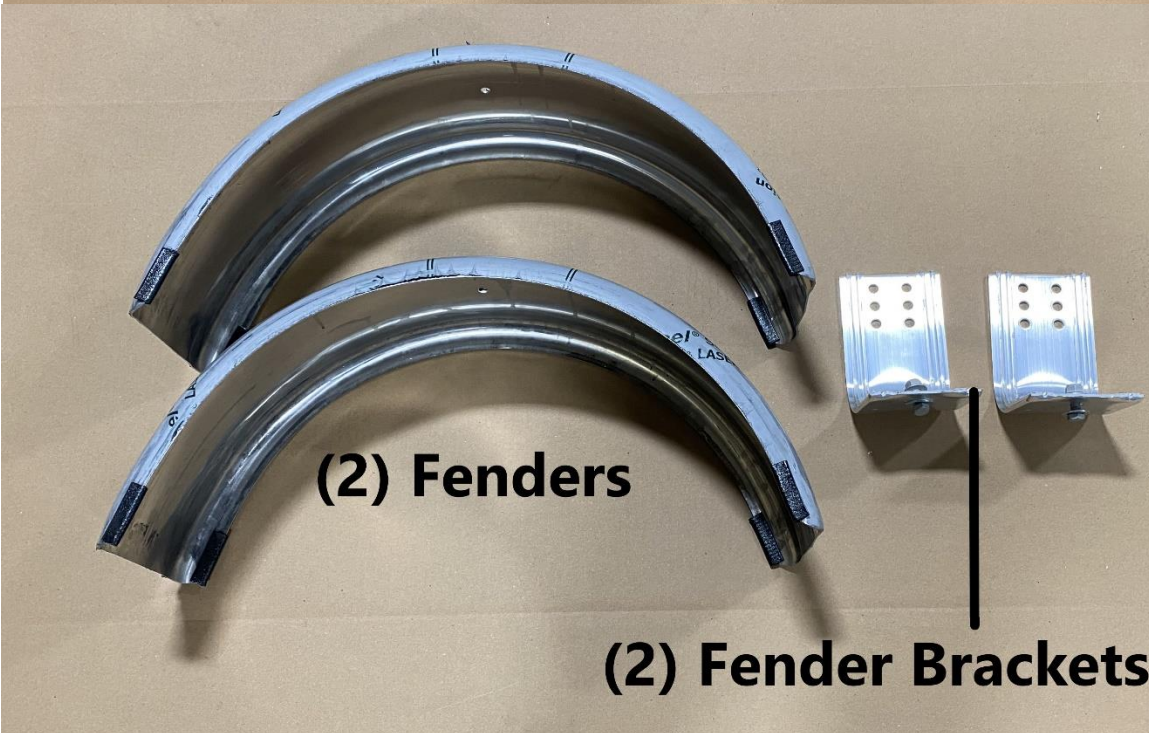
Incorrect assembly or modifications to your trailer will void any specific or implied warranty.

For questions or assistance assembling your trailer call 800-282-5042.

## UNPACK AND IDENTIFY THE FOLLOWING PARTS



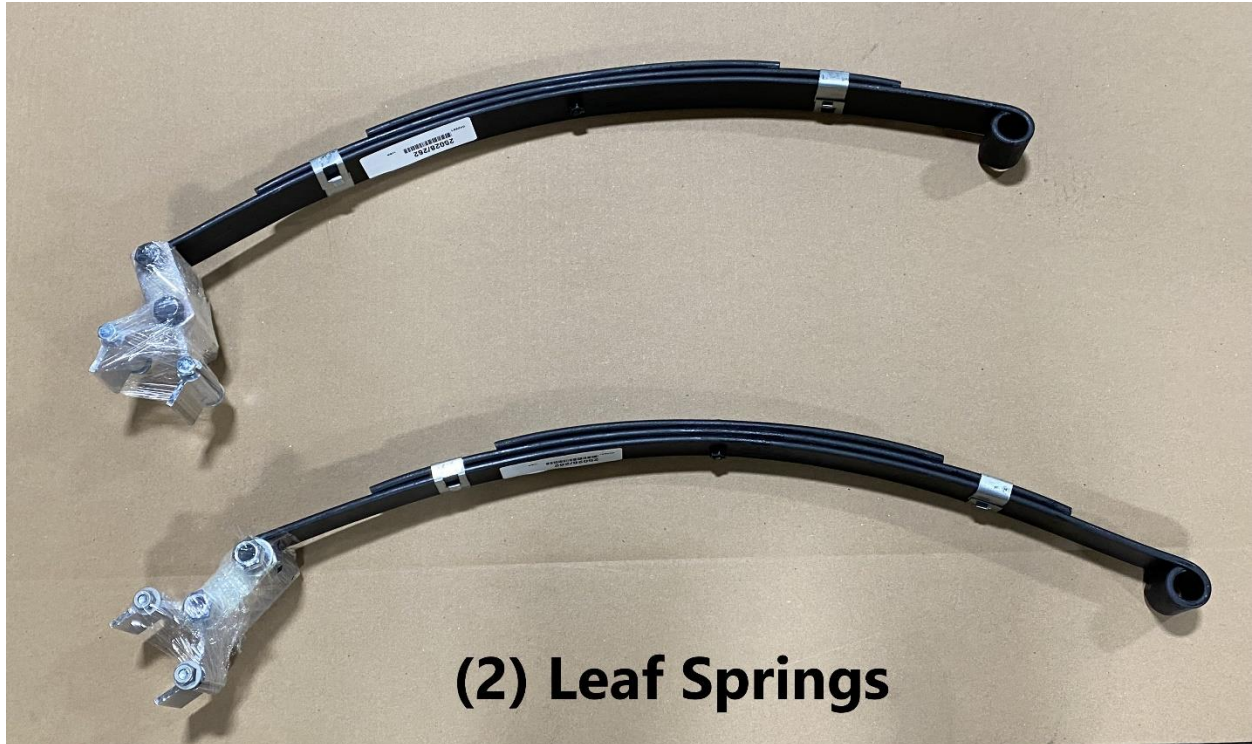
**(2) 12" Tires**



**(2) Fenders**

**(2) Fender Brackets**



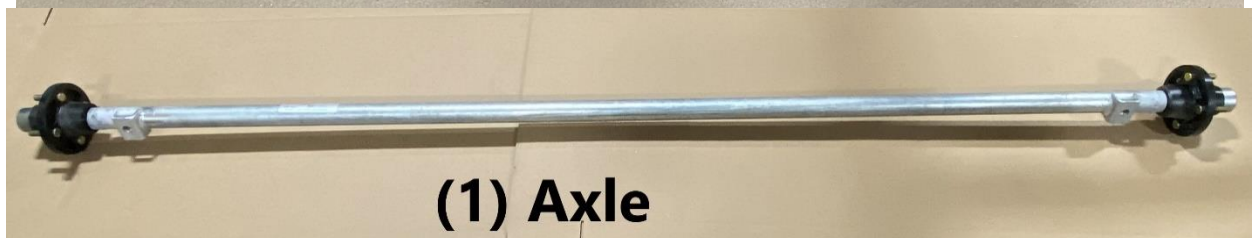


**(2) Leaf Springs**



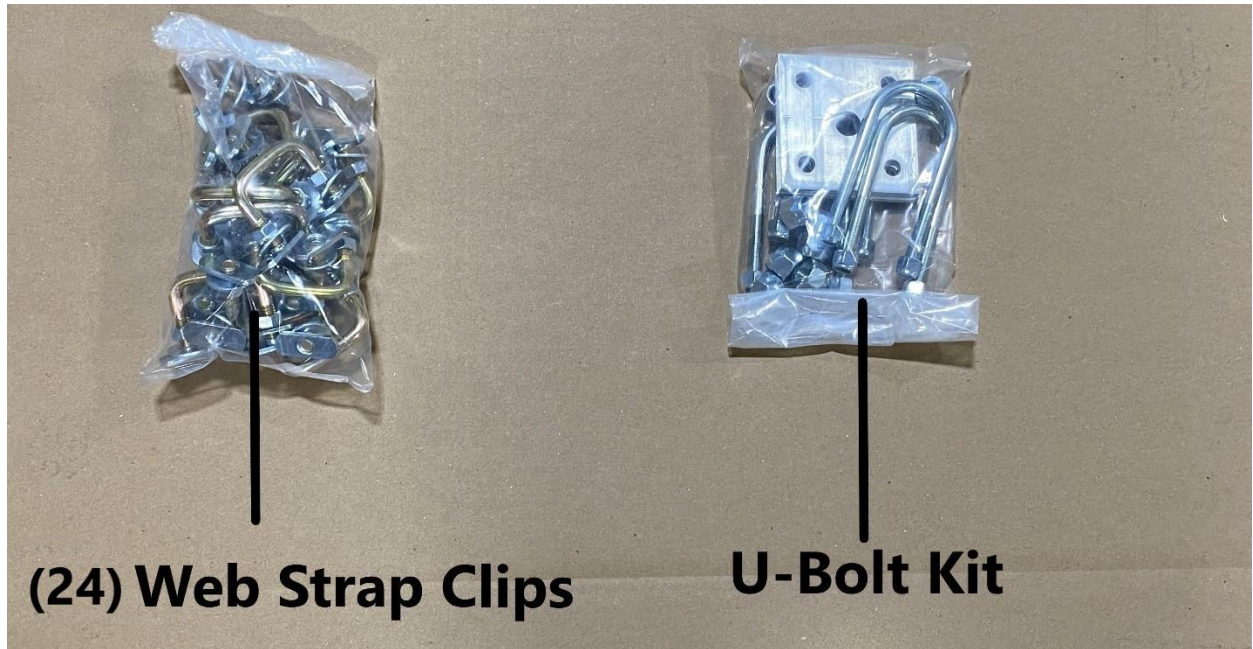
**Wiring Harness**

**Skid Bracket**



**(1) Axle**





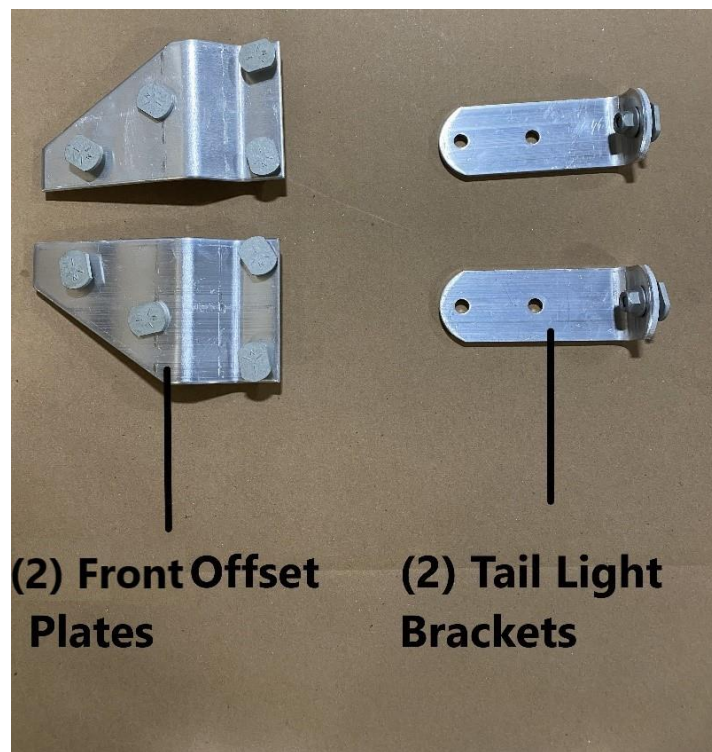
**(24) Web Strap Clips**

**U-Bolt Kit**



**LED Light Kit**

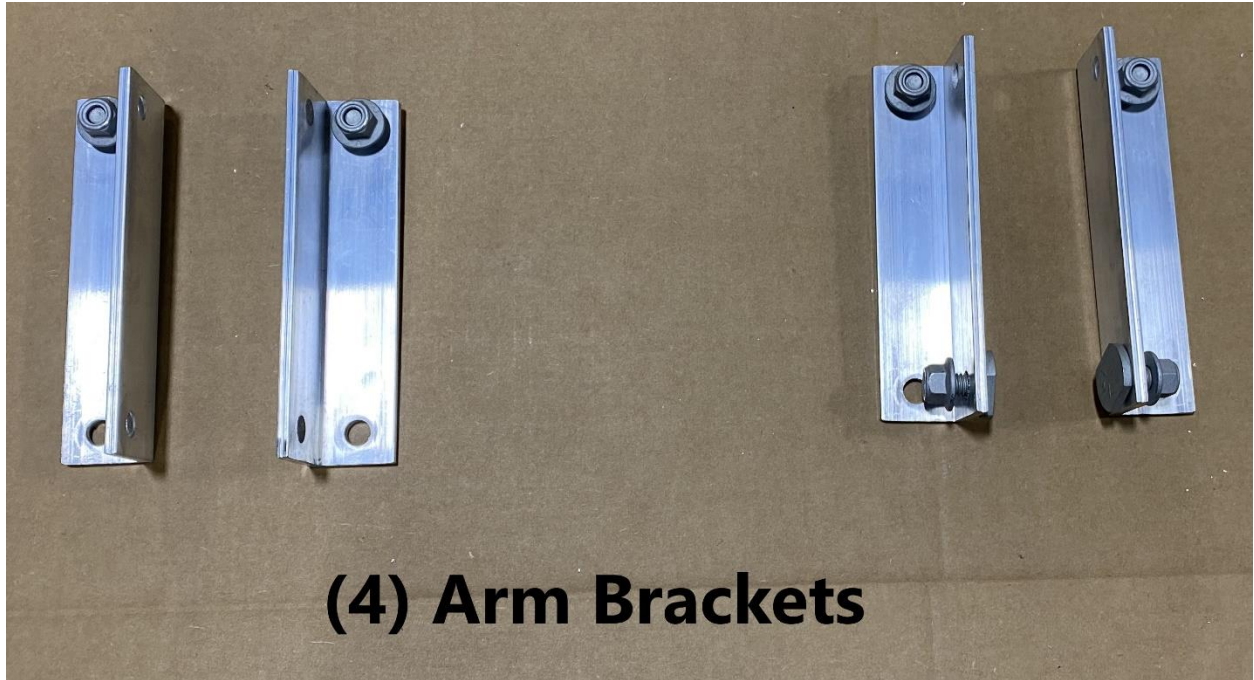
## **(2) Bottom Attaching Plates**



**(2) Front Offset  
Plates**

**(2) Tail Light  
Brackets**









**Top Apex Plate**



**Bottom  
Apex Plate**



**Tongue Support Plate**



**Tongue Section**



**Front Crossmember**



**(2) Middle Crossmembers**





**Rear Crossmember**



**(2) Front Diagonals**



**Left Side Rail**



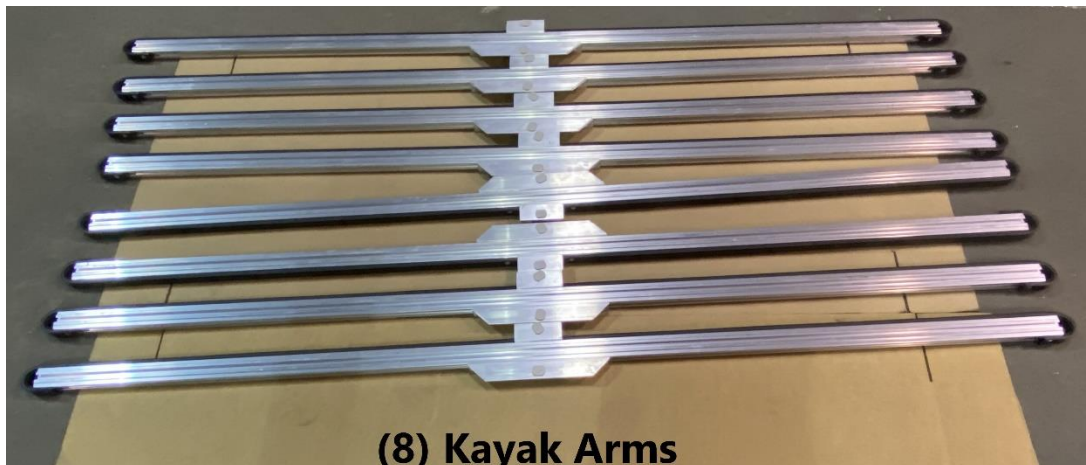
**Right Side Rail**



**Support Bar**

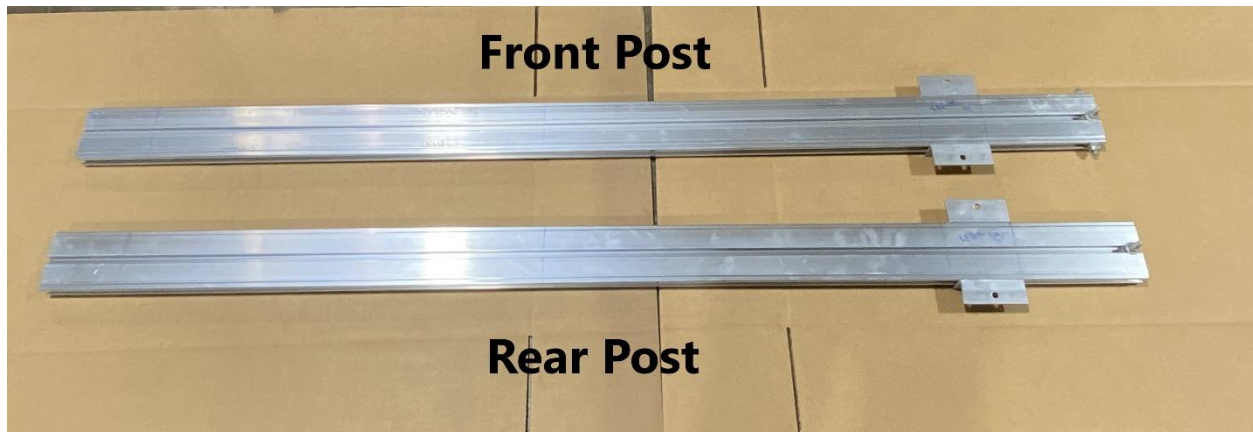


**(1) Front Gusset**



**(8) Kayak Arms**





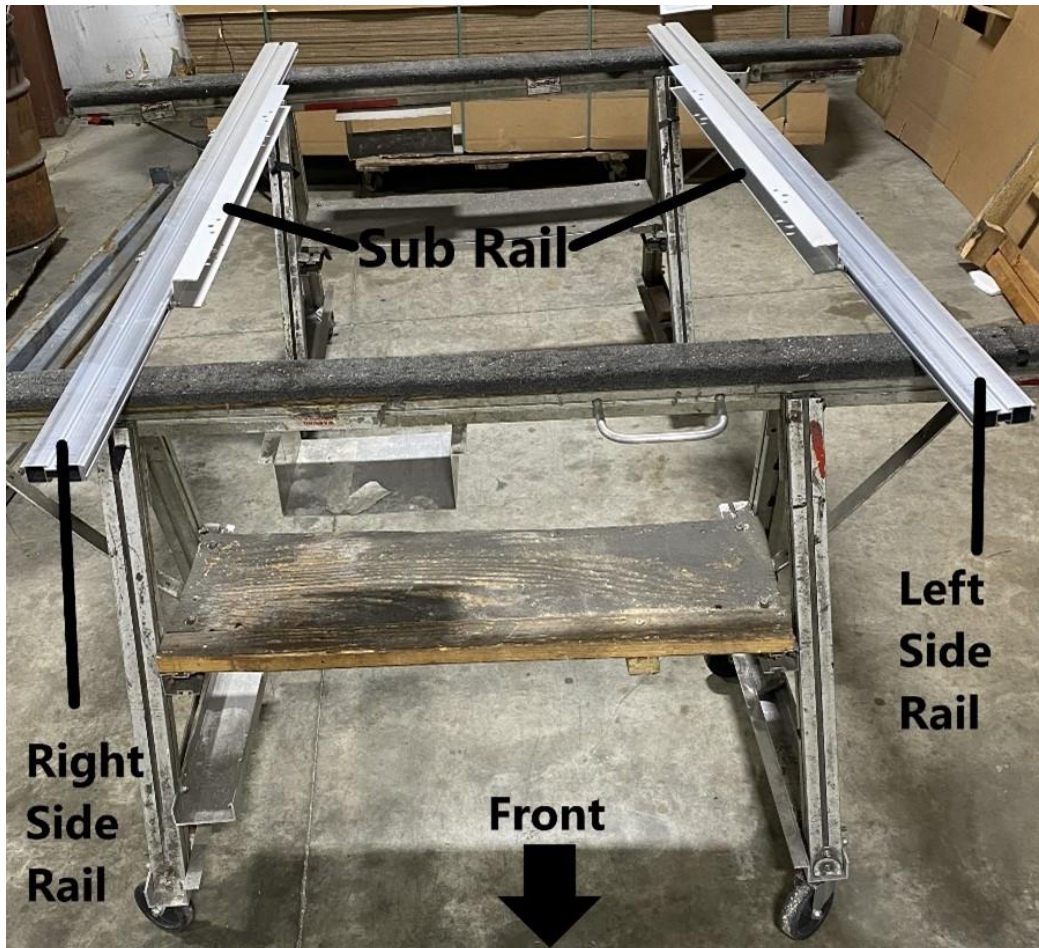
## Assembly



Locate the left side rail. The left side rail will have a vehicle identification sticker.



Locate the right side rail.

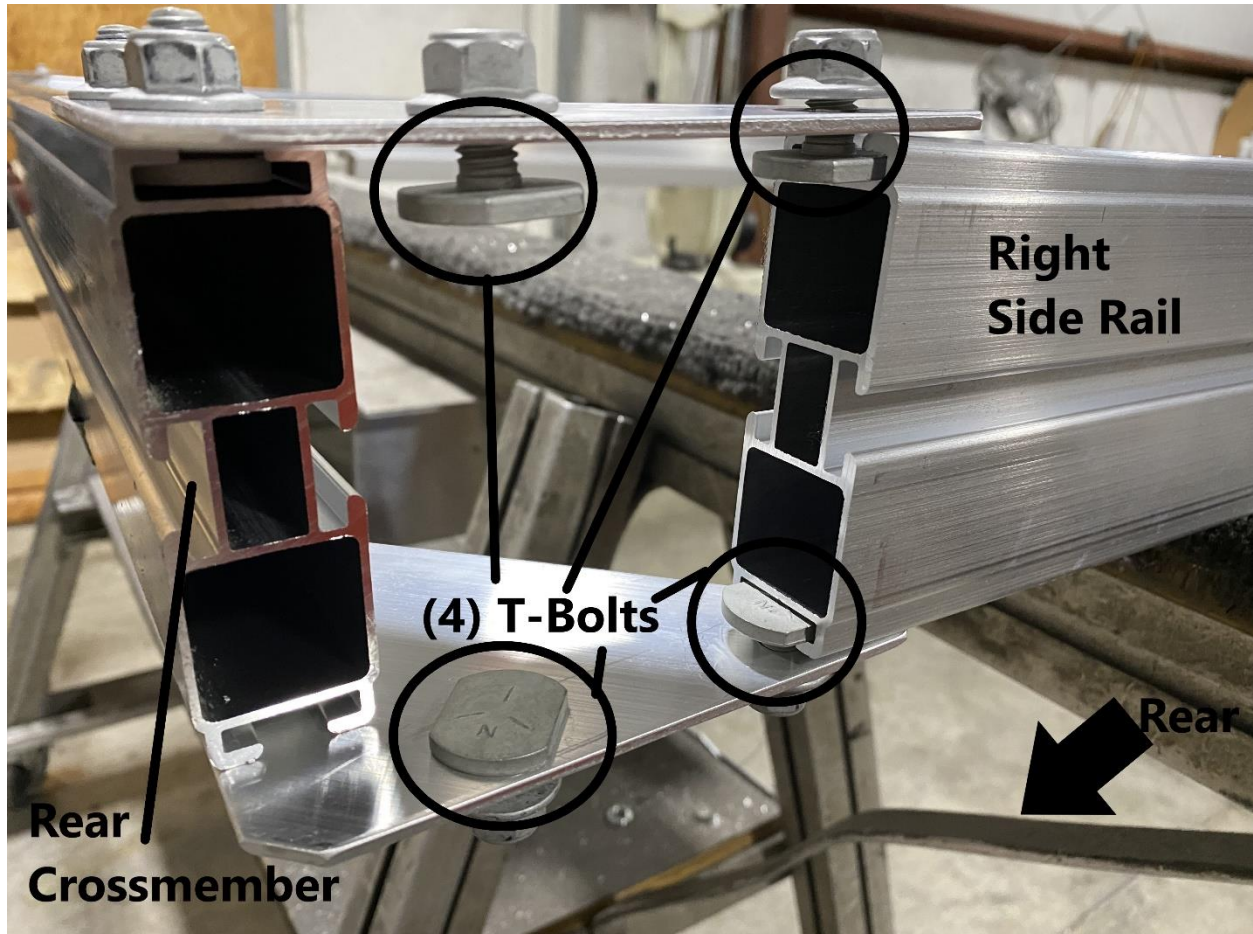


Place the left and right side rails on (2) saw horses as shown. Note that the vehicle identification sticker on the left side rail will be facing towards the outside of the trailer. Also note that the sub-rails offset towards the inside of the trailer.



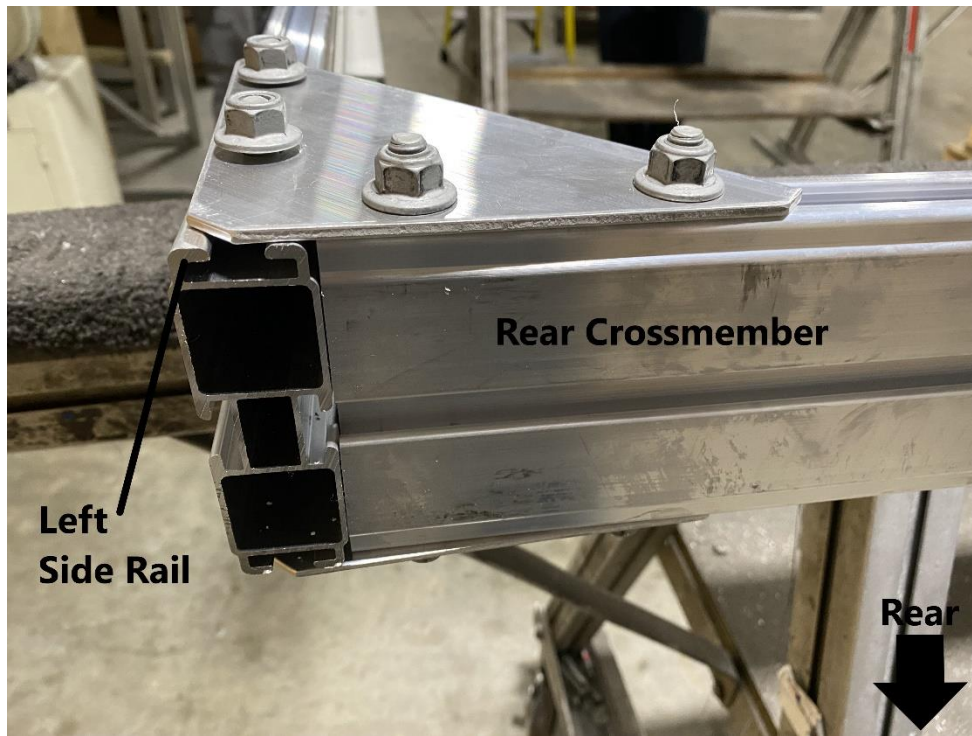


Locate the rear crossmember.

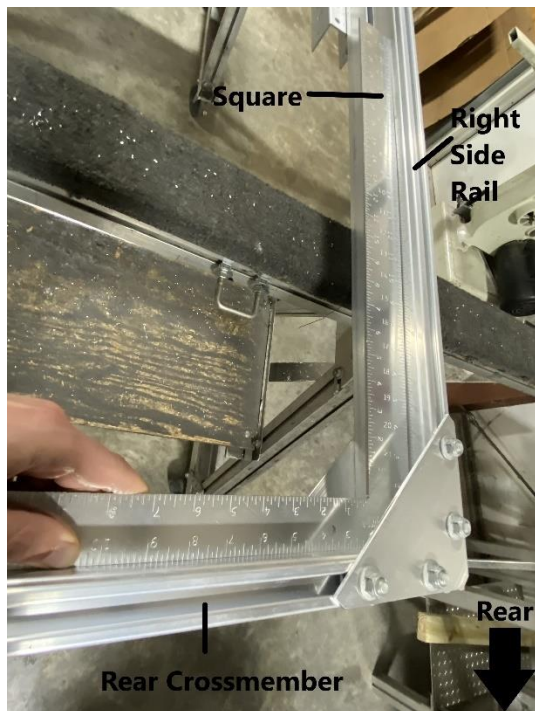


Slide the (4) T-Bolts of the rear crossmember into the top and bottom grooves of the right side rail. Note that the LED light installed on the rear crossmember will be facing towards the outside of the trailer.

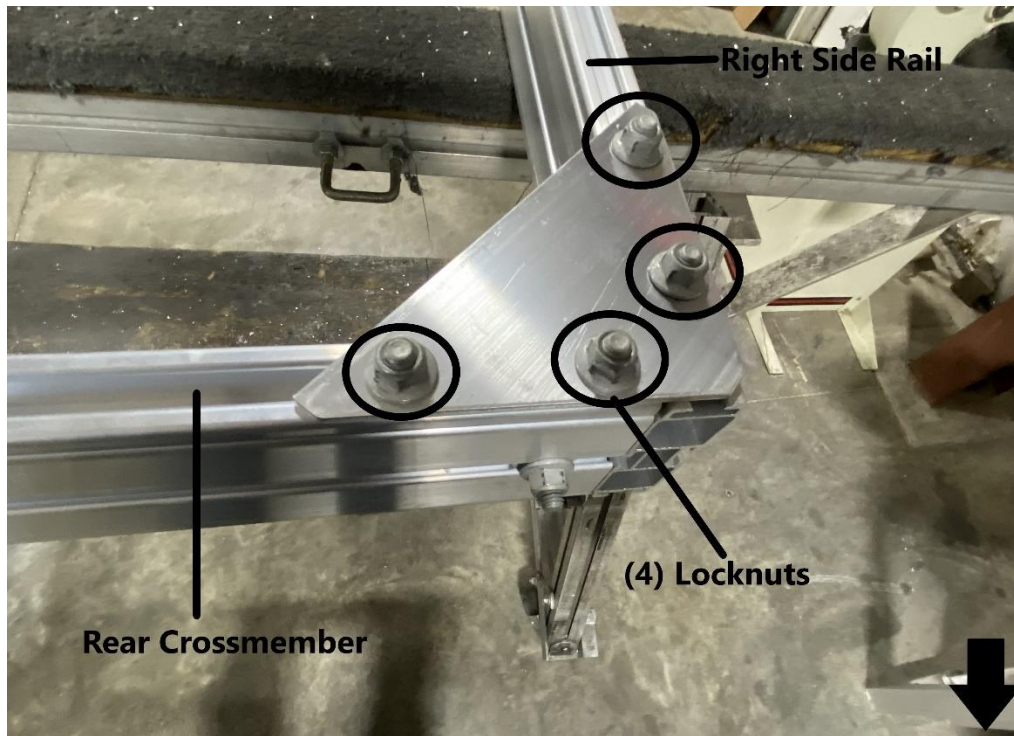




Continue sliding the rear crossmember until it is flush with the right side rail. Repeat this process for the other side.



Use a square to confirm that the corners are at a 90-degree angle.

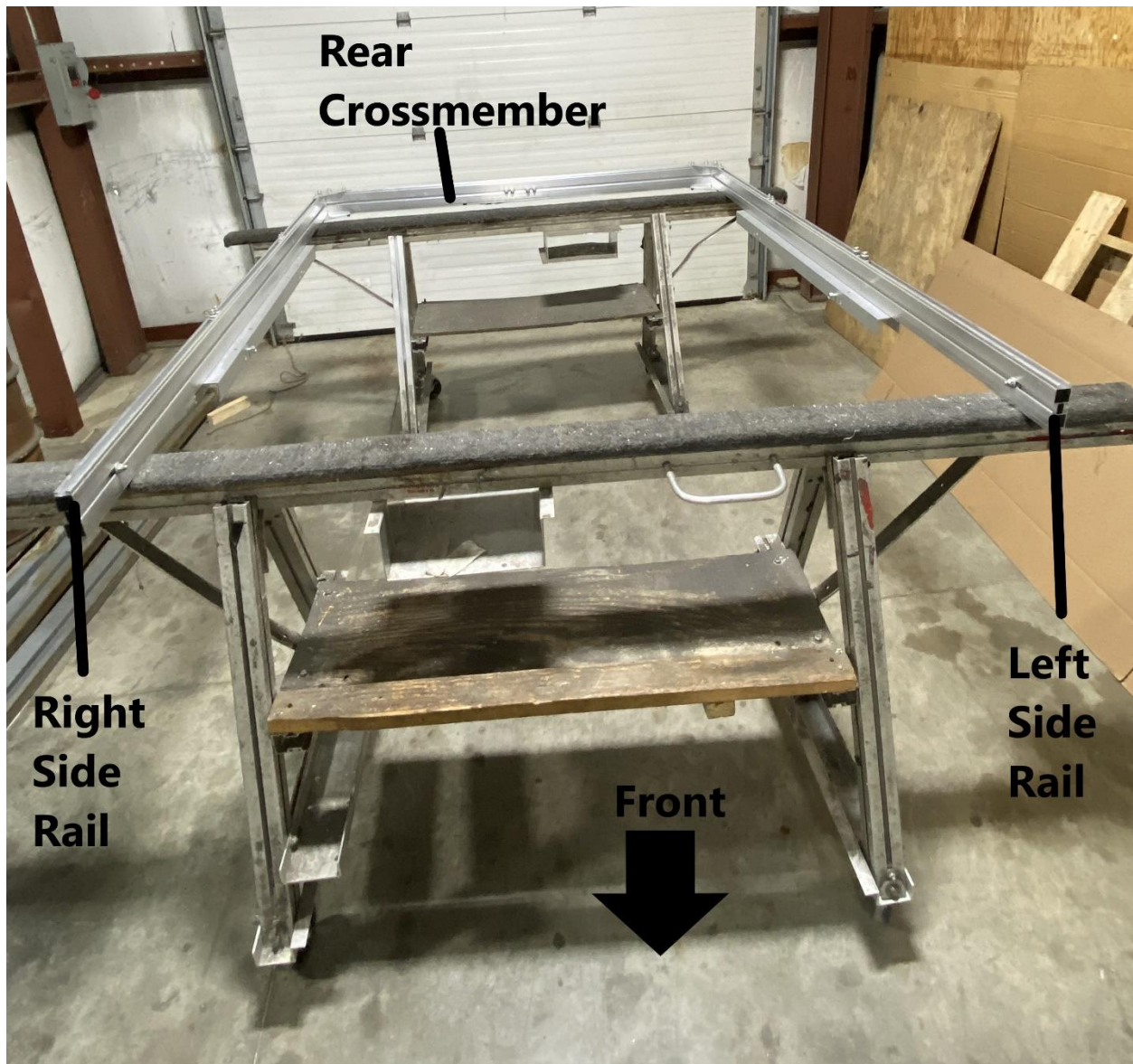


With the trailer squared up, the locknuts will now need to be tightened. Tighten the (4) locknuts shown using a 9/16" wrench. Repeat this process for the other side.



The bottom (4) locknuts will also need tightened. Tighten the (4) locknuts using a 9/16" wrench. Repeat this process for the other side.



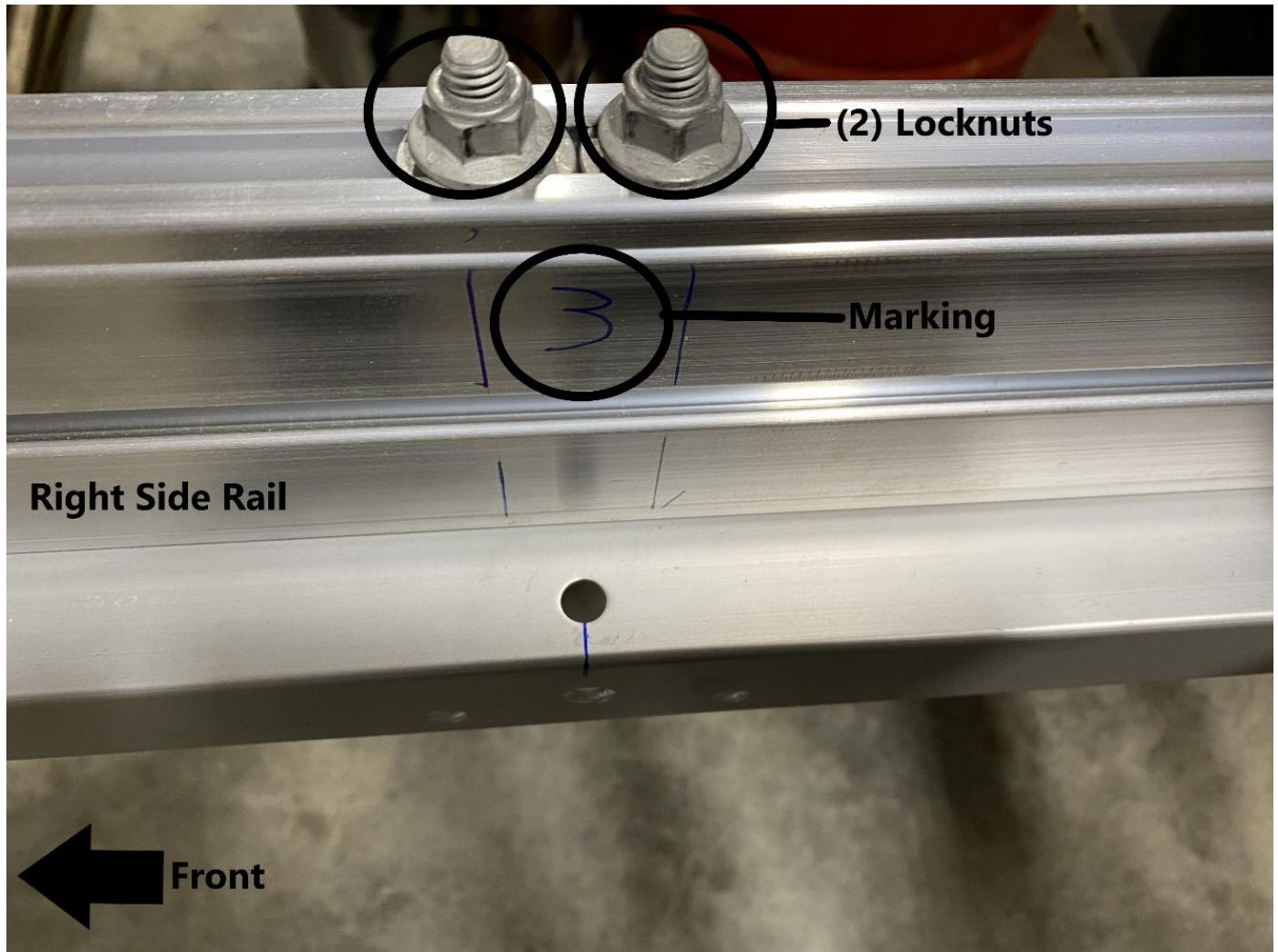


At this point the trailer will look like this.

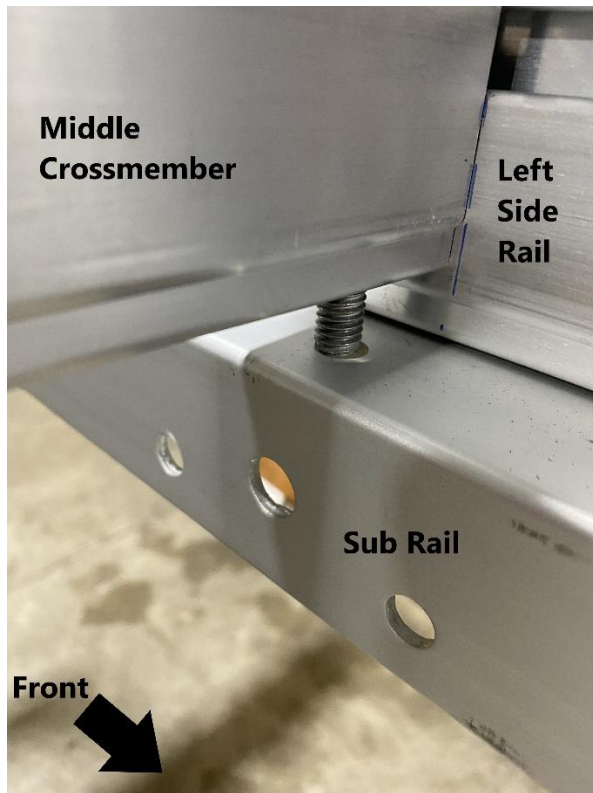


Locate the (2) middle crossmembers. These will be marked "2" and "3". Remove the (4) locknuts using a 9/16" wrench.

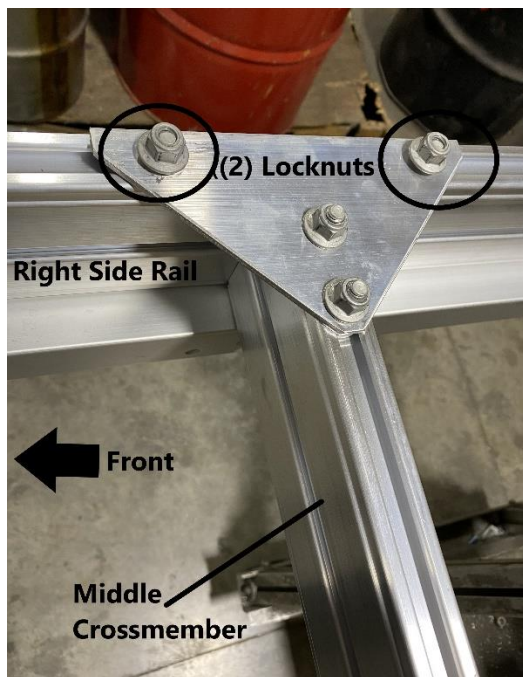




Remove the (2) locknuts shown on the right side rail using a 9/16" wrench. Repeat this process for the left side rail. Note the marking on the right side rail. Both the left and right side rails will be marked "2" and "3" to show where each middle crossmember is installed.

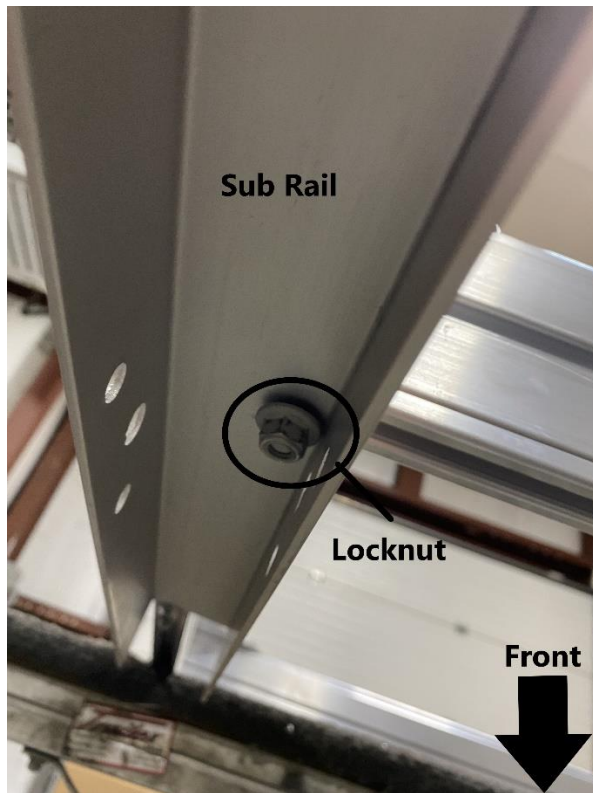


Match the “3” markings on the middle crossmember to the markings on the left and right side rails. Install the middle crossmember as shown, using the hole on the sub rail.



Install the middle crossmember as shown. Replace the (2) locknuts and tighten using a 9/16” wrench. Repeat this process for the other side.





Install a locknut on the T-bolt that is connecting the sub rail and the middle crossmember. Tighten using a 9/16" wrench. Repeat this process for the other side.



At this point the trailer will look like this.

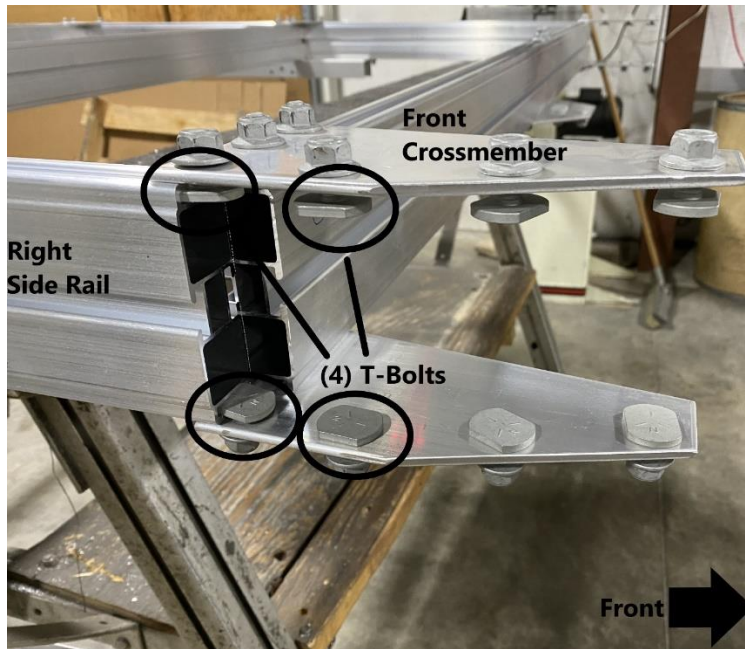


Repeat this process to install a second middle crossmember. At this point the trailer will look like this.

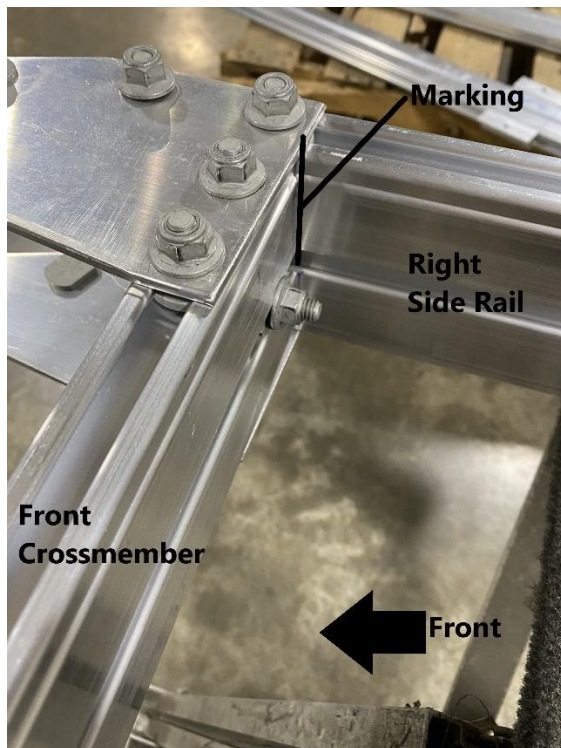


Locate the front crossmember.

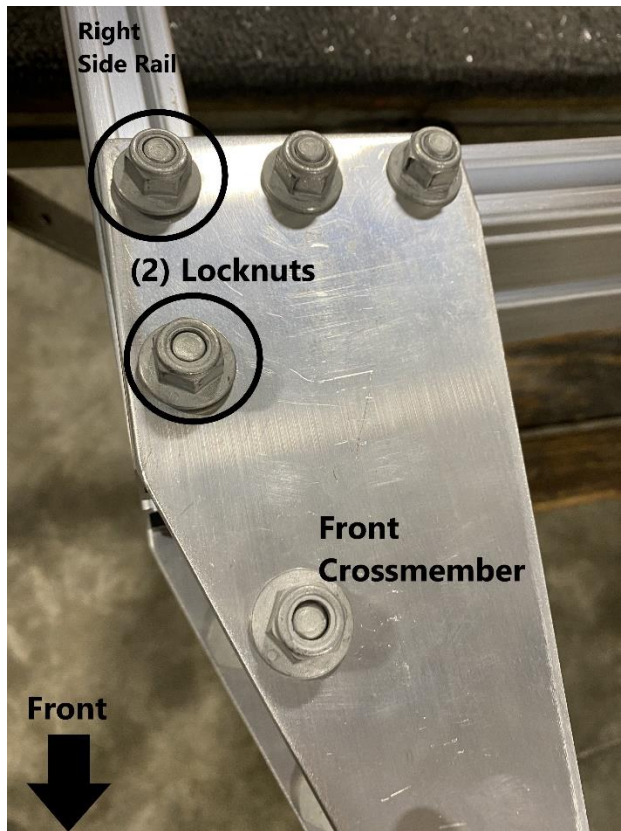




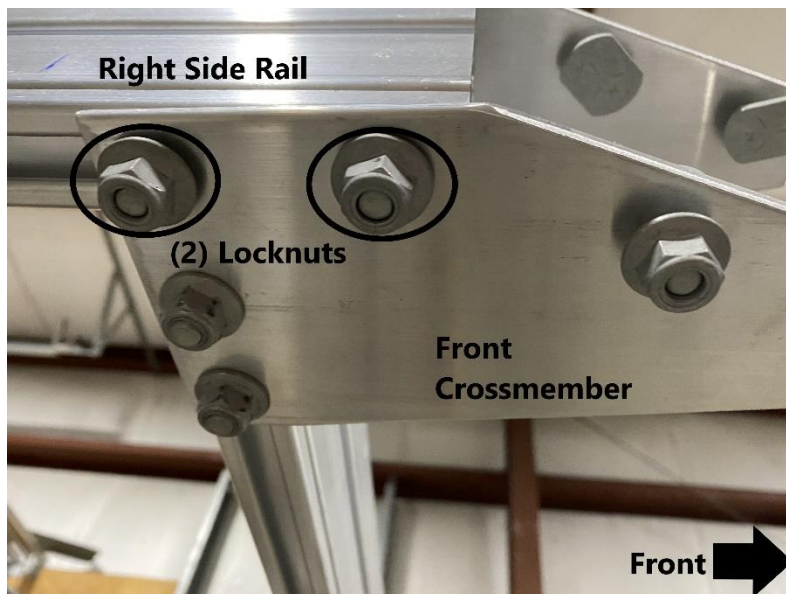
Install the front crossmember to the left and right side rails as shown. Slide (4) T-Bolts into the top and bottom grooves of the left and right side rail.



The left and right side rails will have a marking to show how far to slide the front crossmember. Continue sliding the front crossmember until the end of the front crossmember is flush with the marking. Use a square to confirm the corners are at a 90-degree angle.



With the trailer squared up, the locknuts will now need to be tightened. Tighten the (2) locknuts shown using a 9/16" wrench. Repeat this process for the other side.

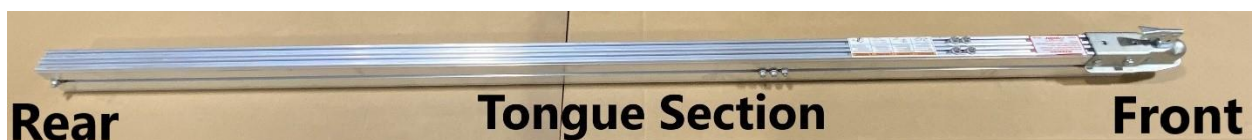


Tighten the (2) bottom locknuts shown using a 9/16" wrench. Repeat this process for the other side.



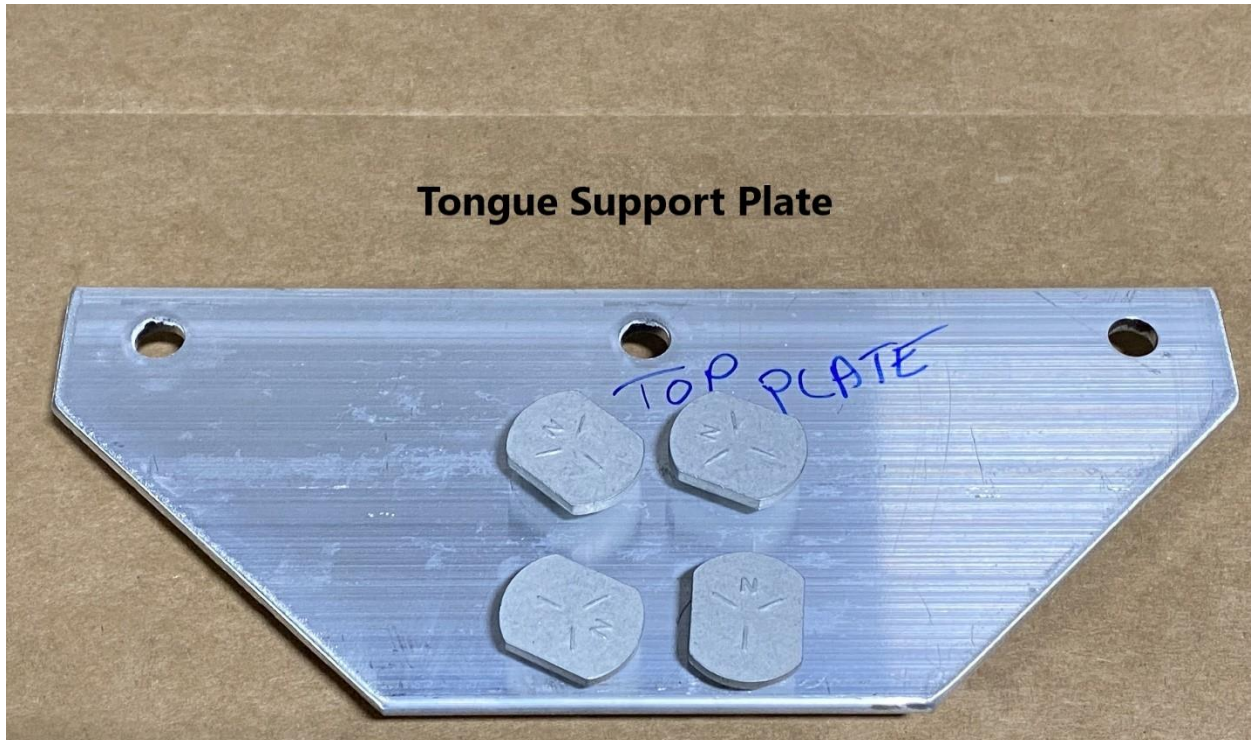


At this point the trailer will look like this.

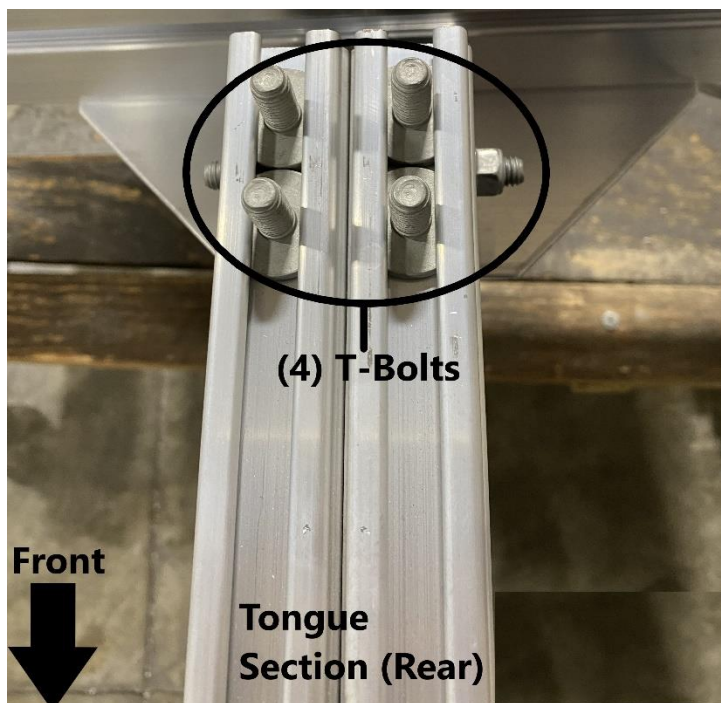


Locate the tongue section. Note the front and the rear ends.

## Tongue Support Plate

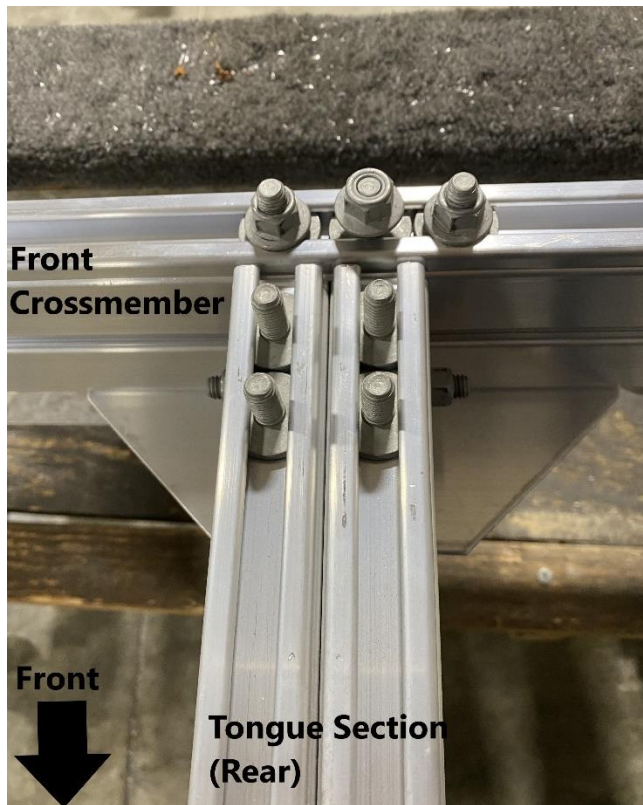


Locate the tongue support plate. Remove the (4) T-Bolts and (4) locknuts installed. Note that the tongue support plate will be installed once the tongue section is installed to the front crossmember.

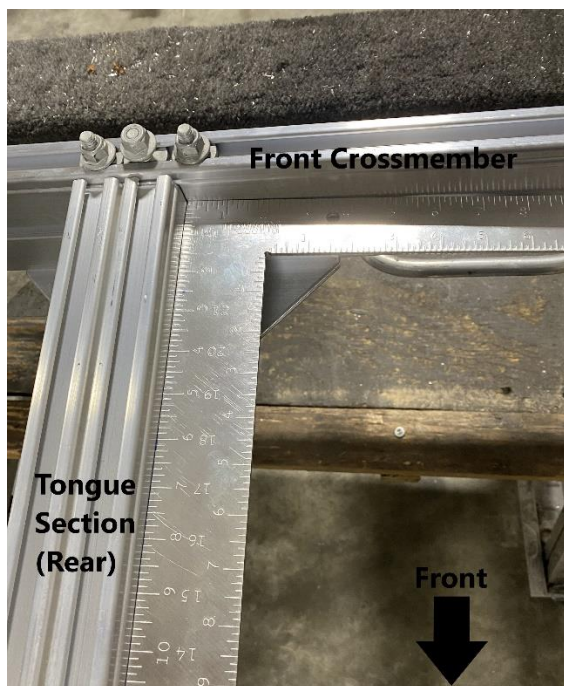


Place (4) T-bolts into the top grooves of the rear tongue section as shown. These were the (4) T-Bolts removed from the tongue support plate.

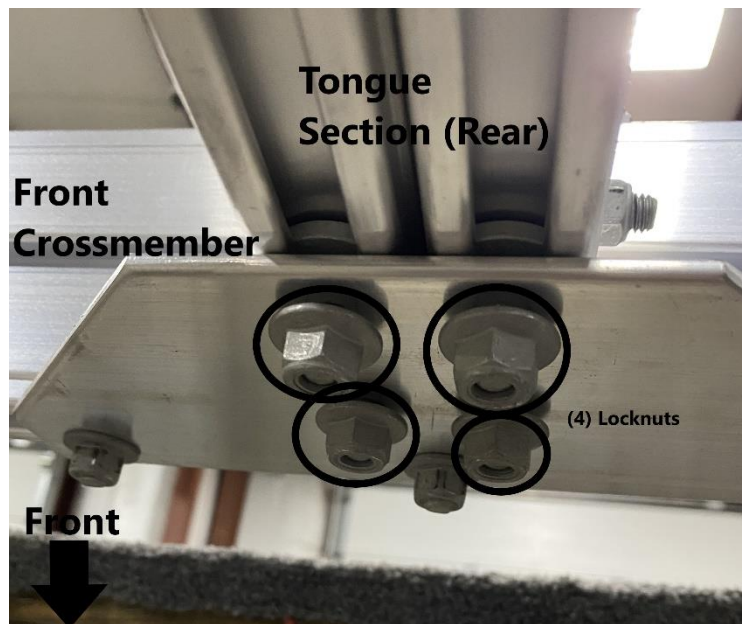




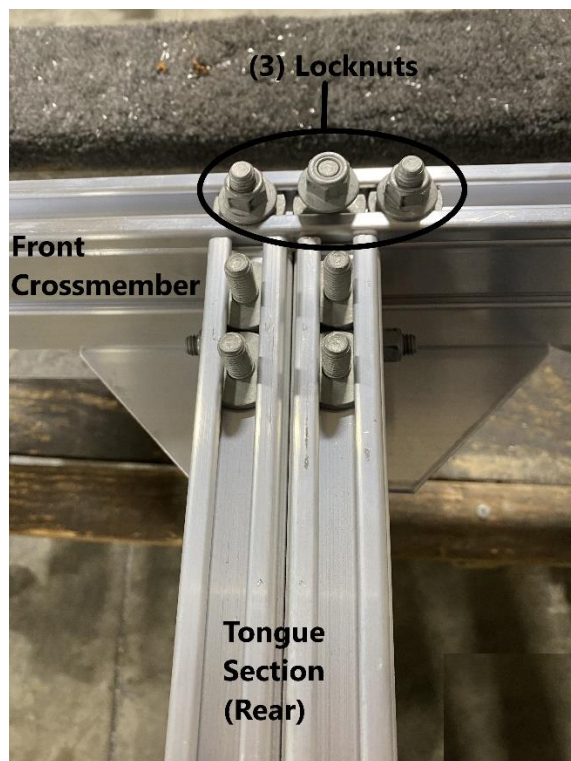
A third saw horse will be necessary to install the tongue section to the front crossmember. Install the rear tongue section to the front crossmember as shown, sliding the (4) T-bolts of the front crossmember into the bottom grooves of the tongue section.



Use a square to confirm that the corners are at a 90-degree angle.

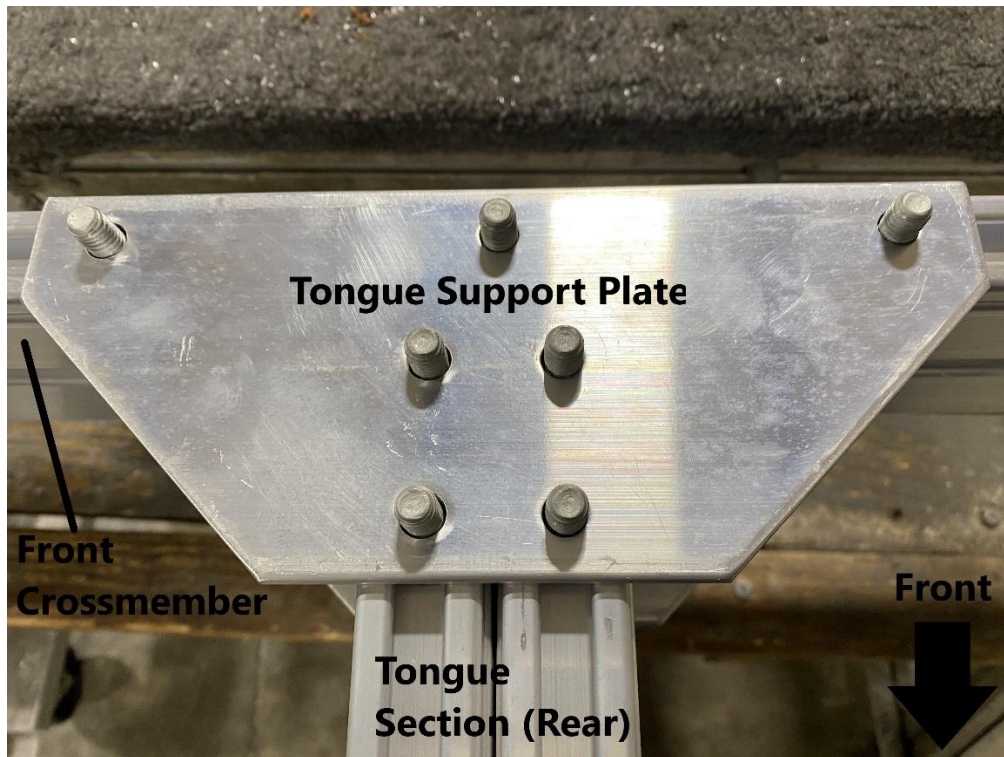


With the trailer squared up, the locknuts will now need to be tightened. Tighten the (4) bottom locknuts shown using a 9/16" wrench.

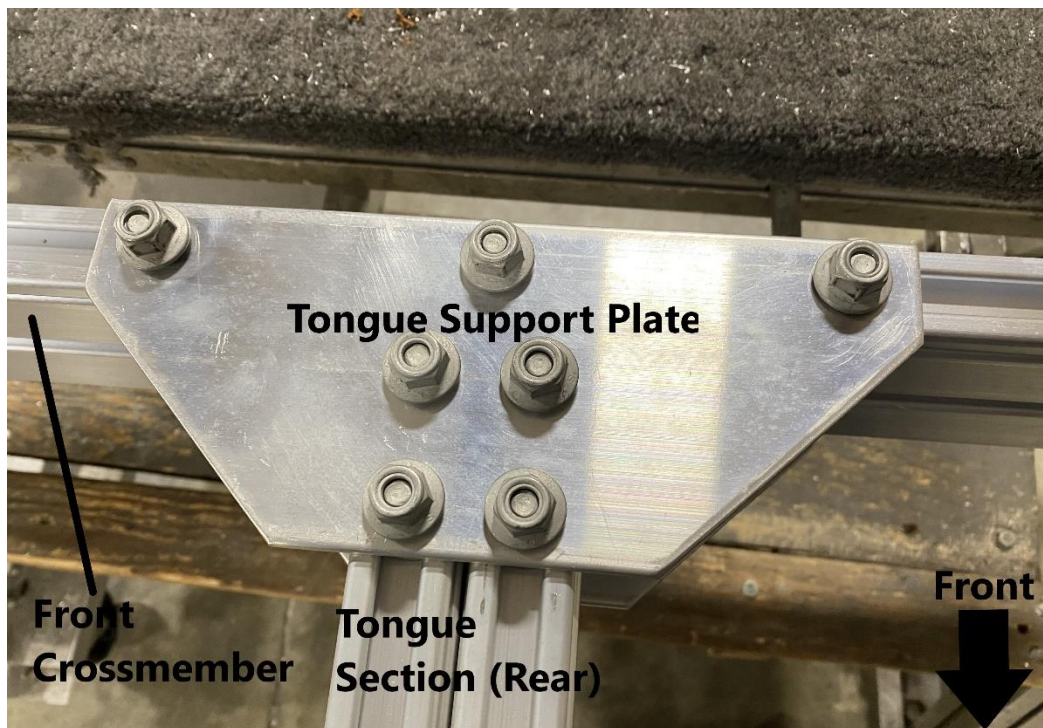


The front crossmember will have (3) T-bolts with (3) locknuts installed. Remove the (3) locknuts using a 9/16" wrench.





Install the tongue support plate as shown, using the (3) T-Bolts installed on the front crossmember and the (4) T-bolts installed on the rear tongue section.



Install (7) locknuts to the (7) T-bolts connecting the tongue support plate to the rear tongue section and front crossmember. Tighten the (7) locknuts using a 9/16" wrench.



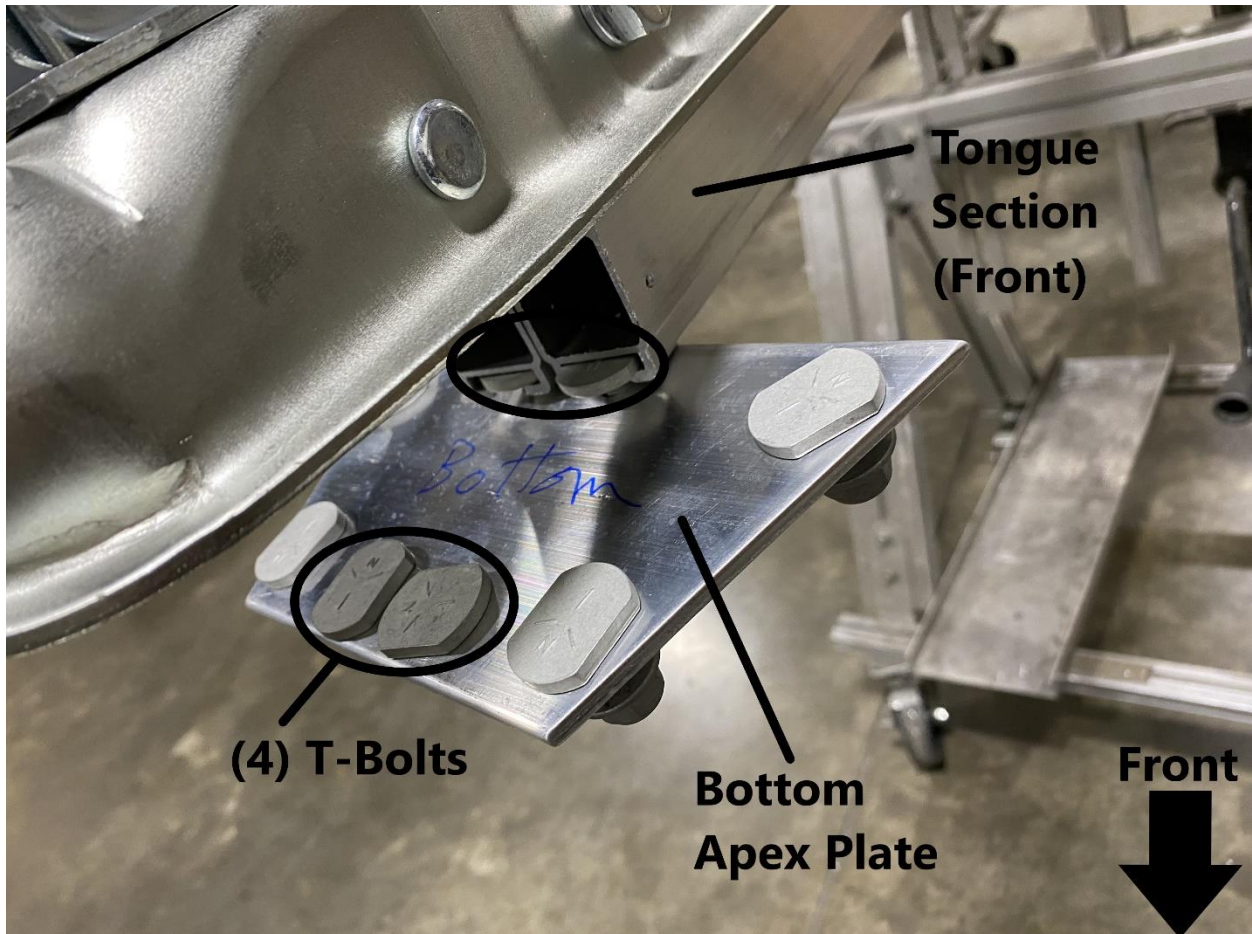
**At this point the trailer looks like this.**



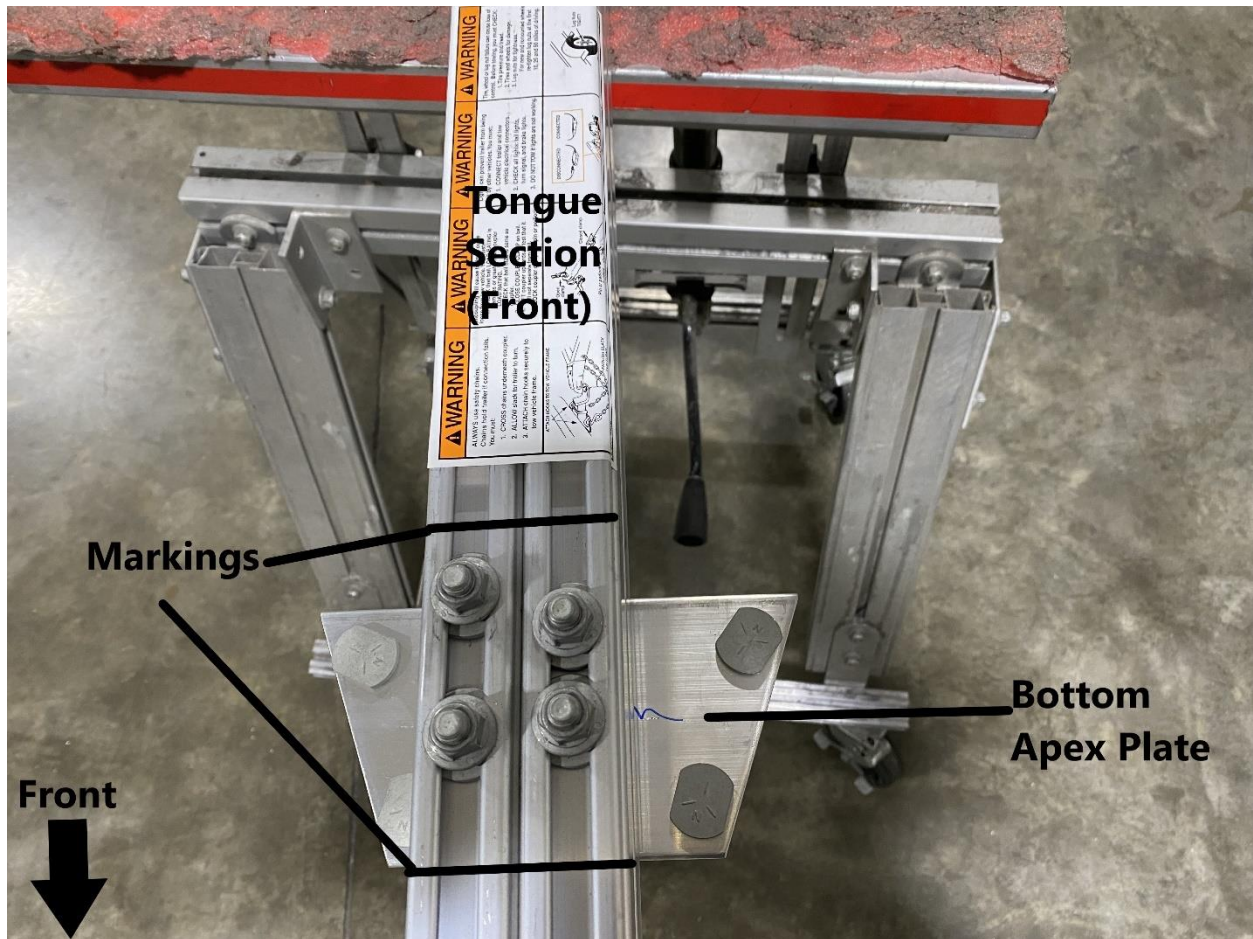


**Bottom  
Apex Plate**

Locate the bottom apex plate.



Slide the (4) center T-bolts of the bottom apex plate into the bottom grooves of the front tongue section.

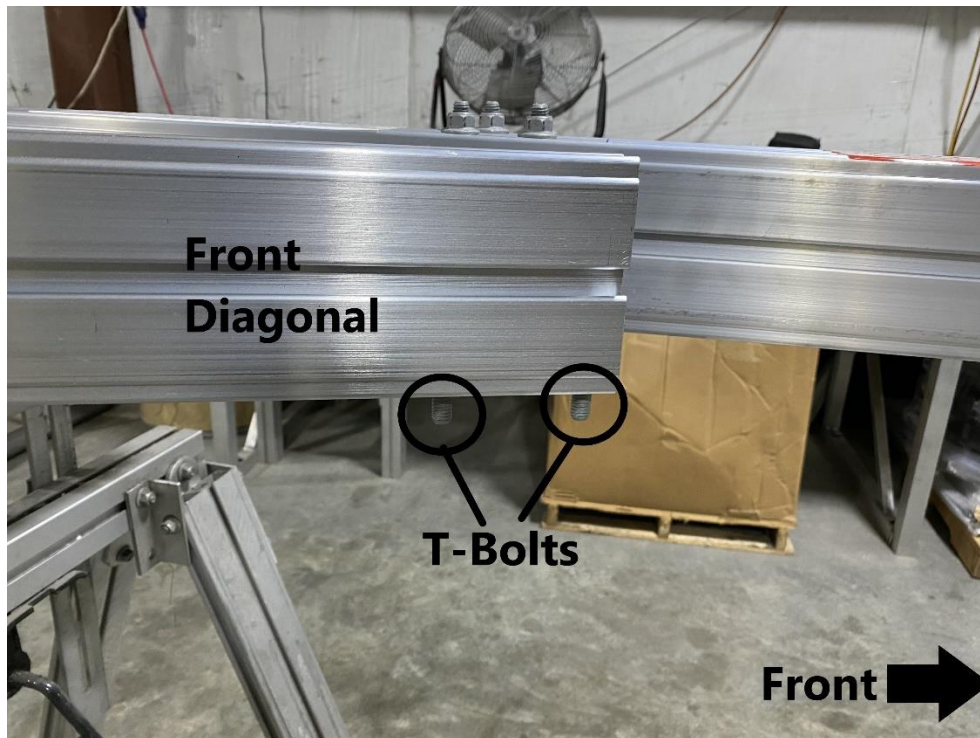


The front of the tongue section will have markings on the top. Lineup the bottom apex plate with the markings. Once the bottom apex plate has been lined up, tighten the bottom (4) locknuts using a 9/16" wrench.



Locate the (2) front diagonals. Note that one front diagonal will have a stamped plate installed.

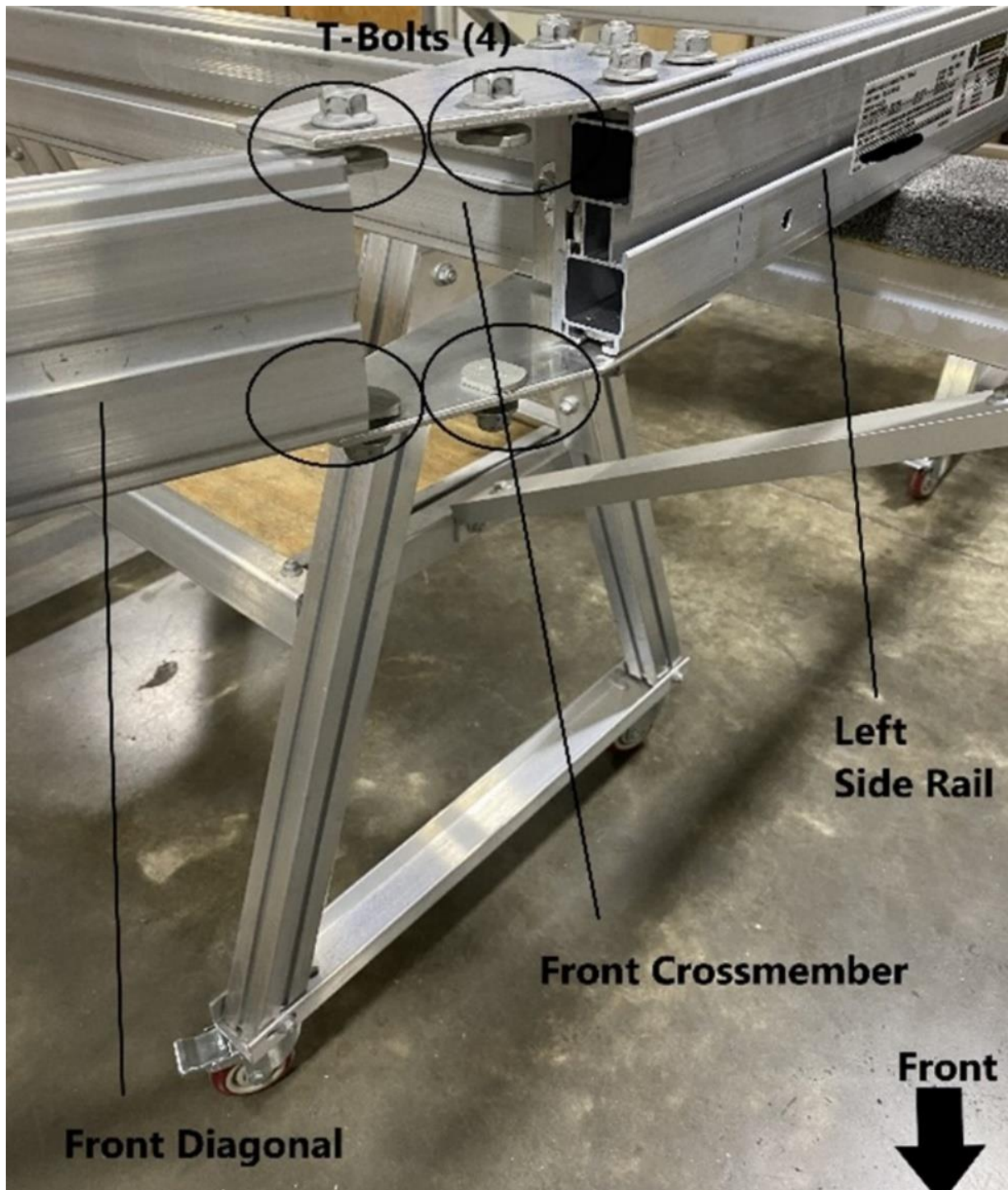




Place (2) T-bolts in the bottom groove of the front diagonal.

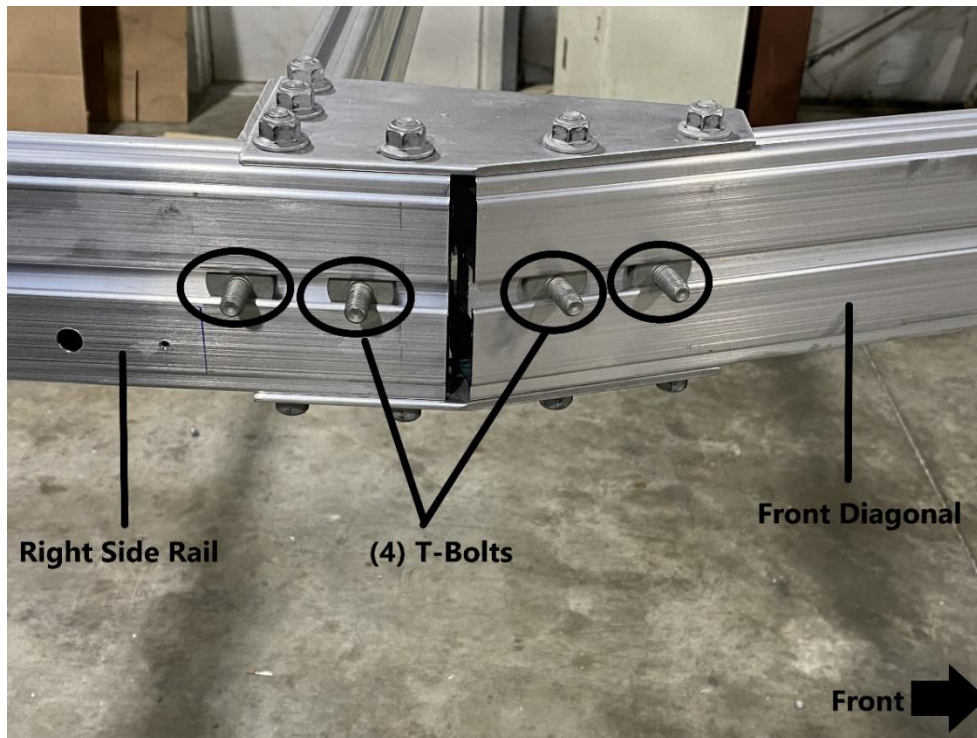


Place the (2) T-Bolts into the holes in the bottom apex plate.

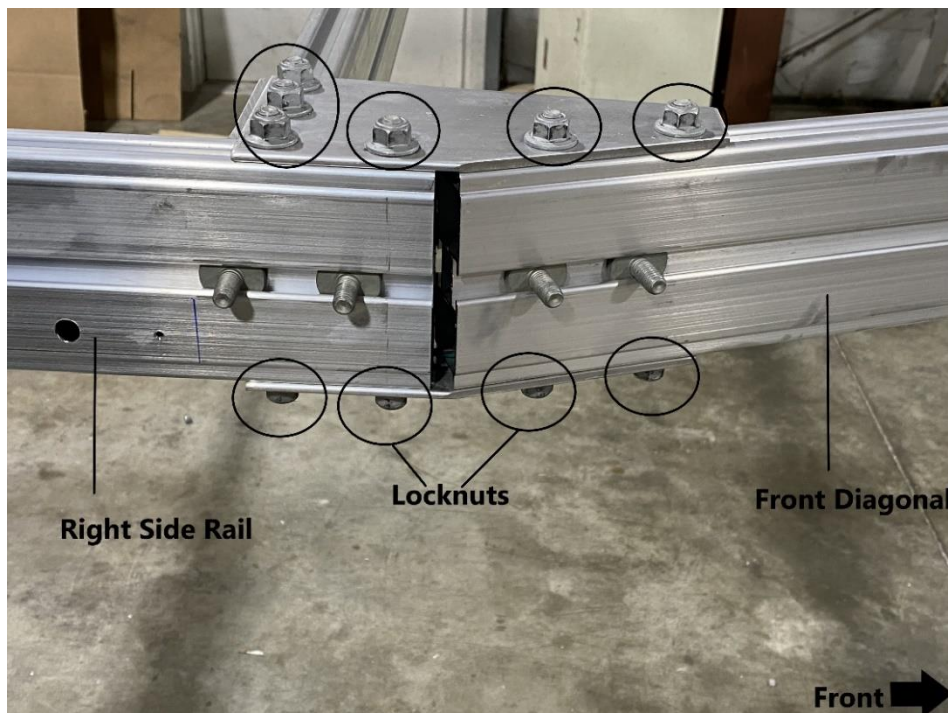


Install the front diagonal to the front crossmember as shown. Slide the (4) T-Bolts of the front crossmember into the grooves of the front diagonal. Note that one front diagonal will have a vehicle identification plate riveted to the side. This will be installed on the driver's side, facing out. Repeat this process to install both front diagonals.

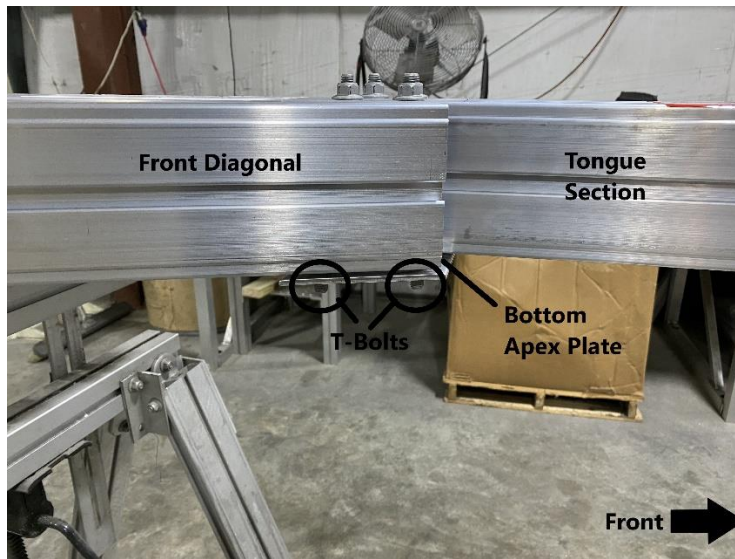




Place (2) T-bolts into the groove of the right side rail and (2) into the groove of the front diagonal. Repeat this process for the other side. These will be used later to install the elbow plates.



Tighten all the locknuts connecting the right side rail to the front diagonal. Repeat this process for the other side.



**Install (2) locknuts on the T-bolts connecting the front diagonal to the bottom apex plate. Tighten the (2) locknuts using a 9/16" wrench. Repeat this process for the other side.**



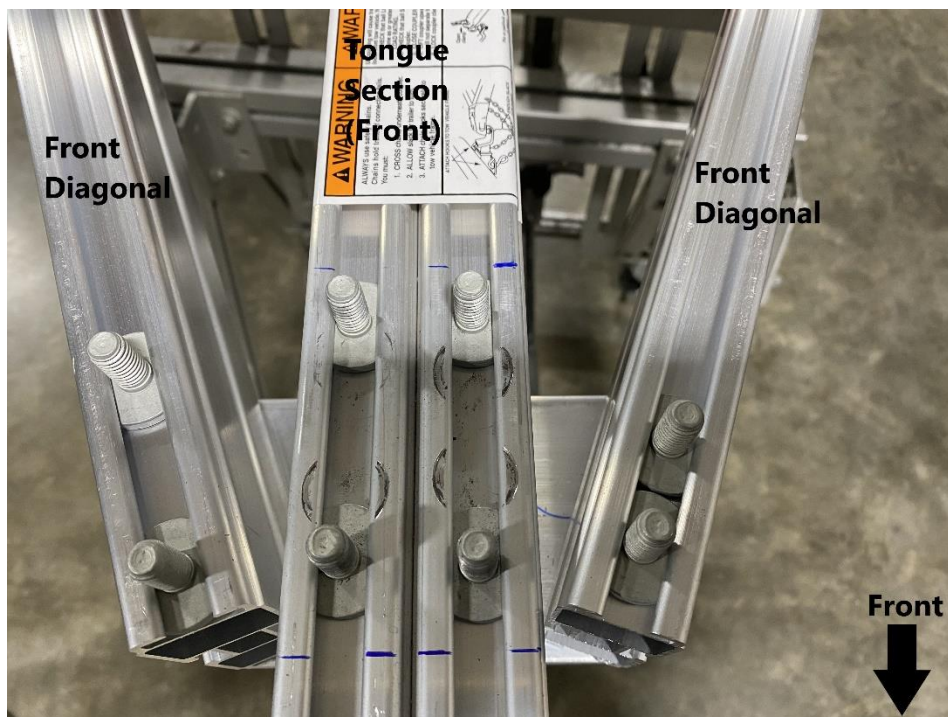
**At this point the trailer looks like this.**



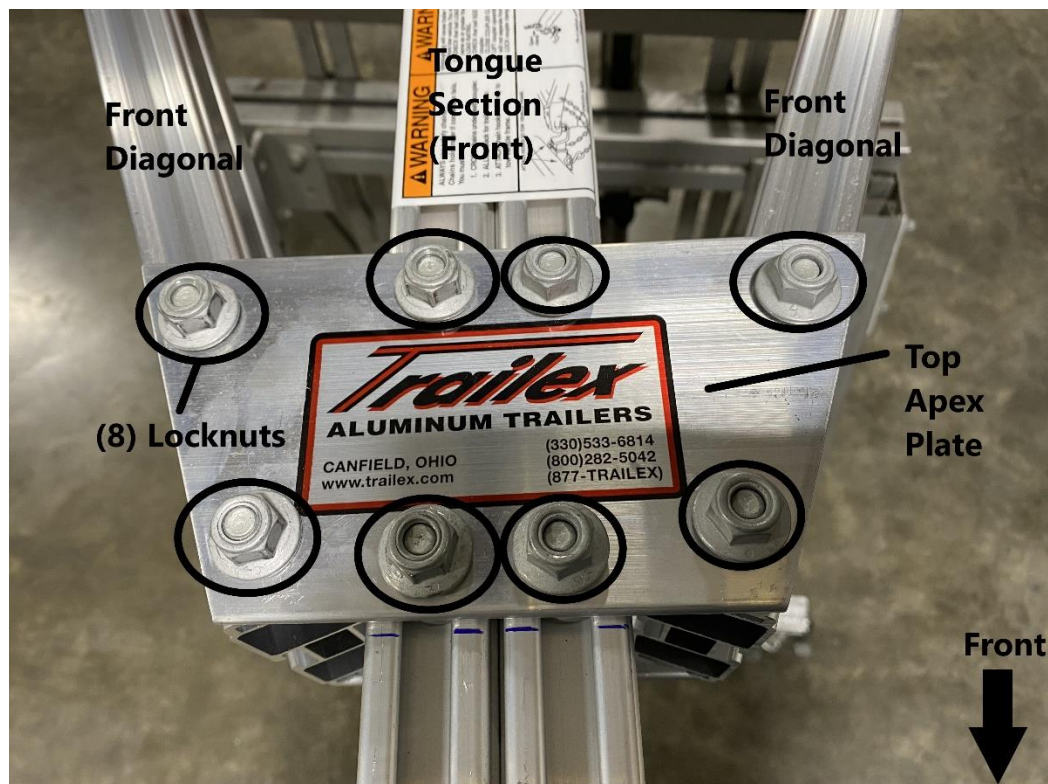


**Top Apex Plate**

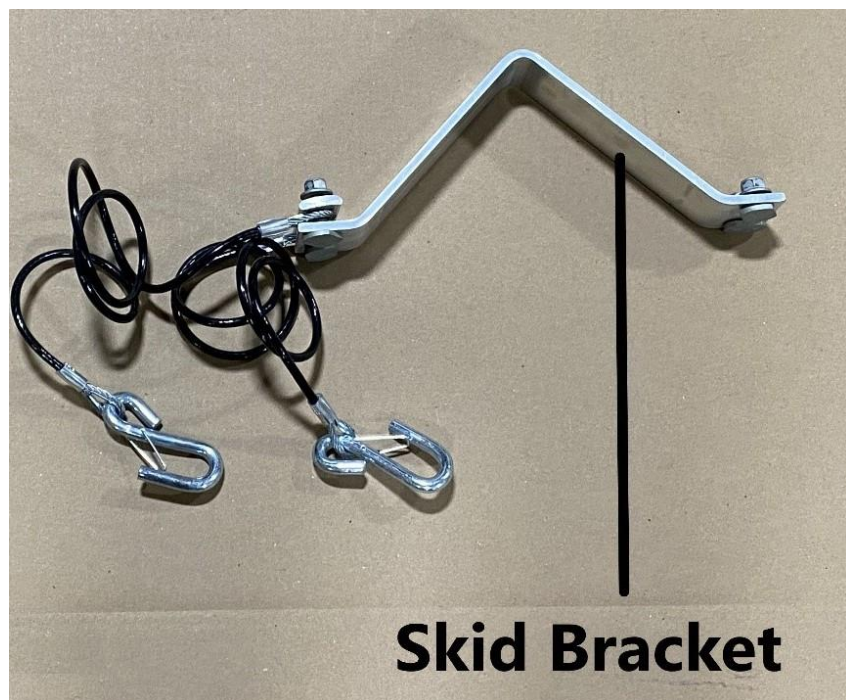
Locate the top apex plate. Remove the (4) T-bolts and (4) locknuts installed.



Install the (4) T-bolts removed from the top apex plate into the top grooves of the front diagonals. Each front diagonal will have (2) T-Bolts installed. Remove the (4) locknuts from the (4) T-bolts installed in the tongue section using a 9/16" wrench.

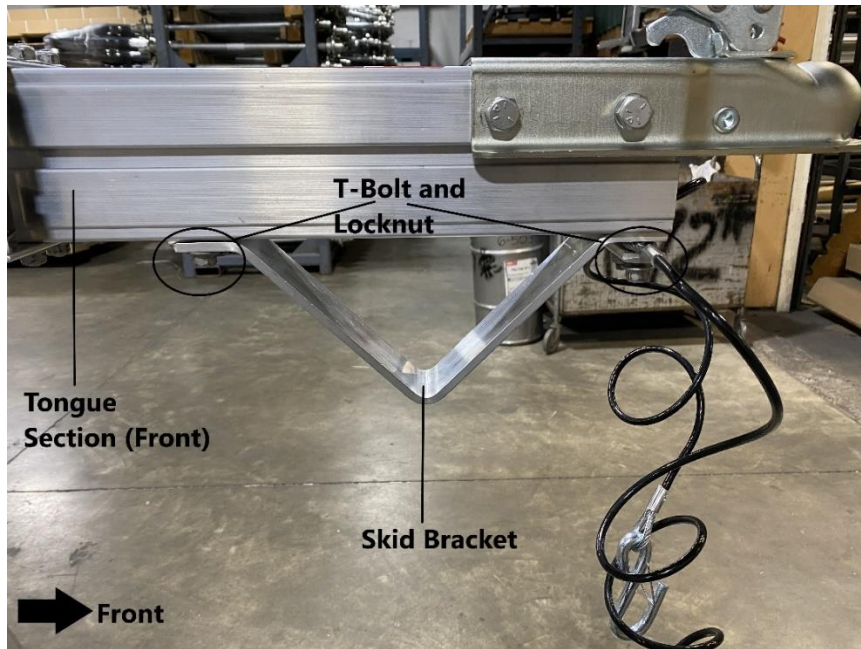


Install the top apex plate to the (8) T-bolts as shown. Install (8) locknuts and tighten using a 9/16" wrench.



Locate the skid bracket. See the options section at the end of the manual if a parking jack was purchased.





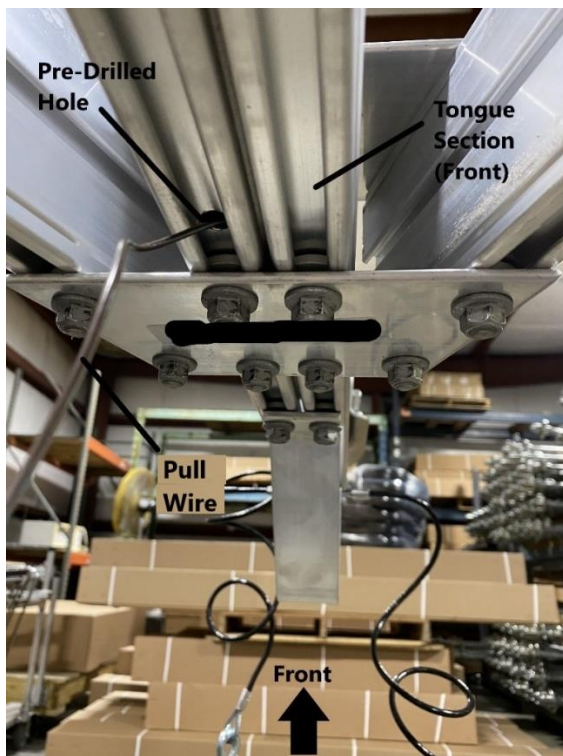
Install the skid bracket to the front tongue section as shown. Slide the (2) T-bolts of the skid bracket into the bottom groove of the tongue section. Tighten the locknuts using a 9/16" wrench.



Locate the LED Light Kit.

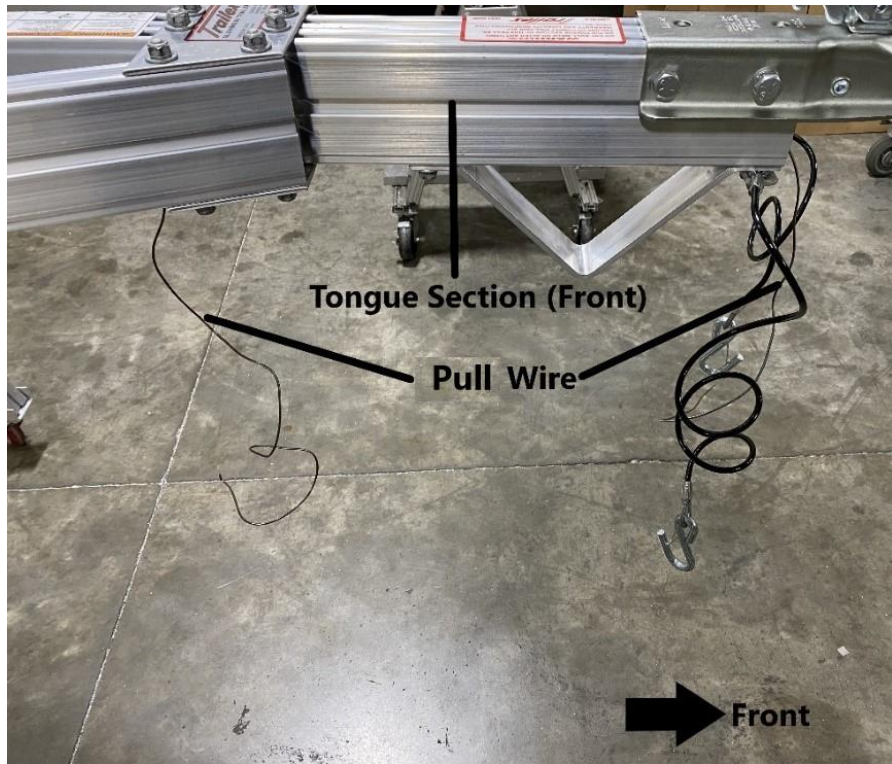


Locate the 5 foot pull wire in the LED Light Kit. This will be used to pull the harness through the trailer. Pull wires will be discarded once the trailer assembly is complete.



Locate the pre-drilled hole on the bottom of the front tongue section. Run the pull wire through the pre-drilled hole towards the front of the tongue section.

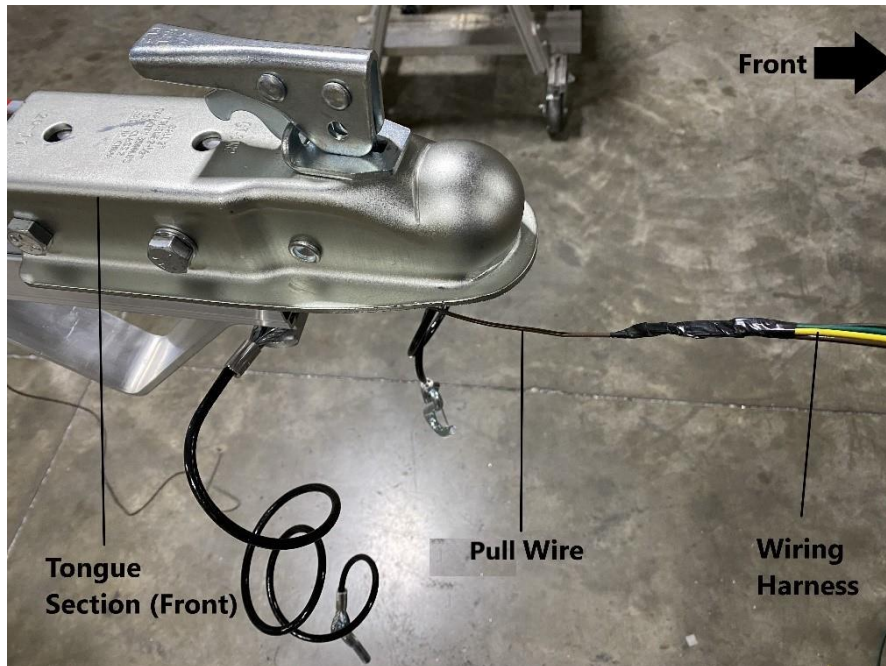




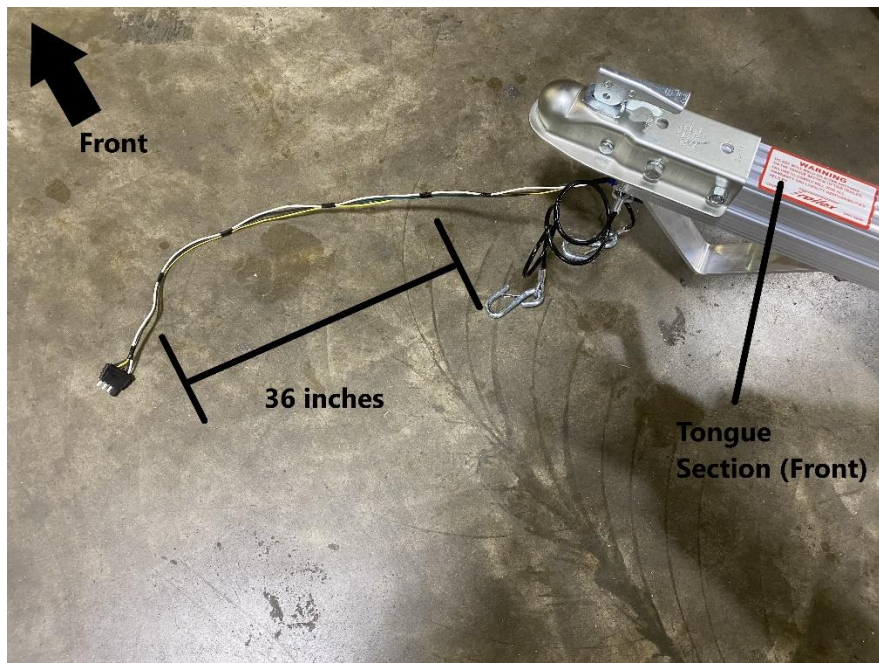
Continue running the pull wire until it is through the front tongue section.



Locate the wiring harness.



Use electrical tape to attach 4 harness wires (2 brown, 1 green, 1 yellow) to the pull wire. **Do not tape the white ground wire.** The white ground wire will stay at the front of the tongue section.

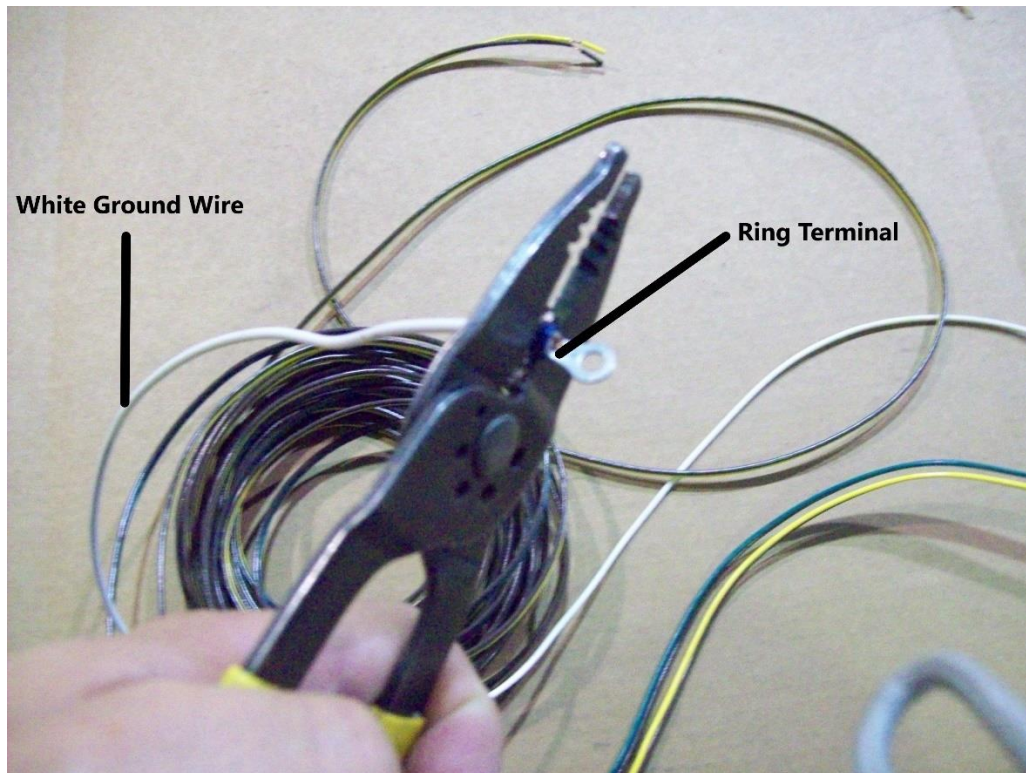


Pull the wiring harness through the tongue section and out through the pre-drilled hole underneath the tongue section. Leave 36 inches of wiring at the front of the tongue section. This will be used to connect the trailer to the tow vehicle.





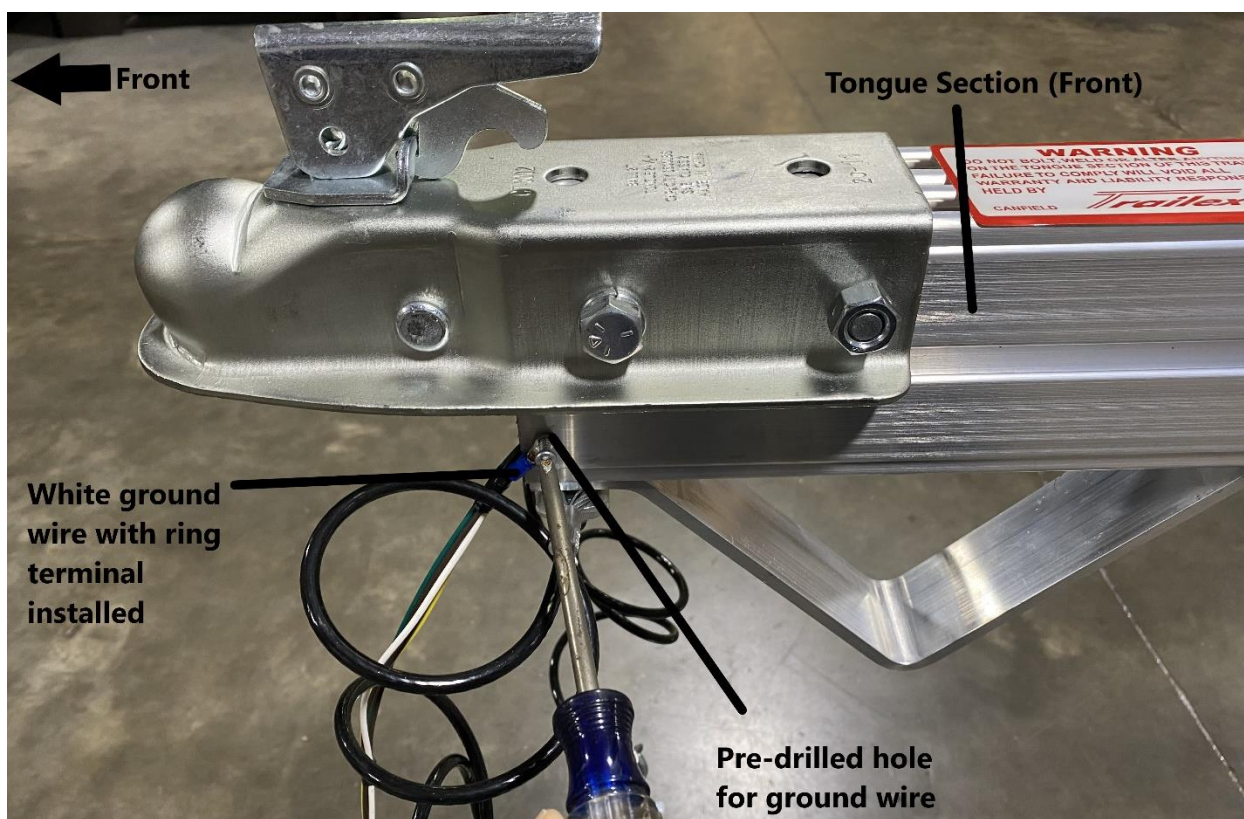
**Locate a ring terminal found in the LED Light Kit.**



**Install the ring terminal to the white ground wire as shown. Strip the end of the white ground wire, place the ring terminal on the end of the white ground wire and crimp the two together.**



Locate the  $\frac{3}{4}$ " long Phillips screw that is found in the LED Light Kit.

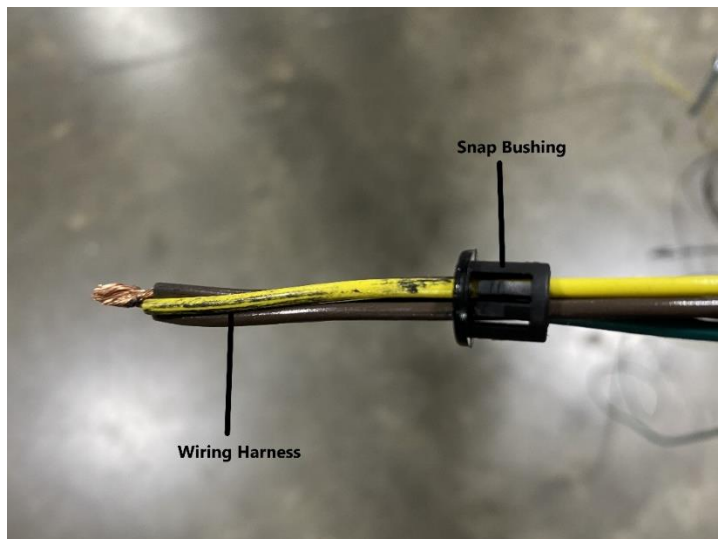


Using a Phillips screwdriver, install the Phillips screw through the ring terminal on the white ground wire into the pre-drilled hole. The pre-drilled hole is located on the driver's side of the front tongue section.





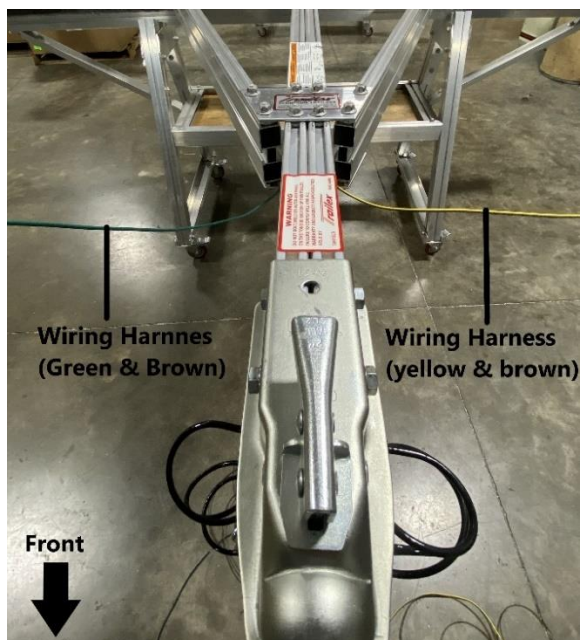
**Locate the snap bushing found in the LED Light Kit.**



**Install the snap bushing on the wiring harness. This will be the end of the wiring harness that was pulled through the tongue section and out through the pre-drilled hole.**

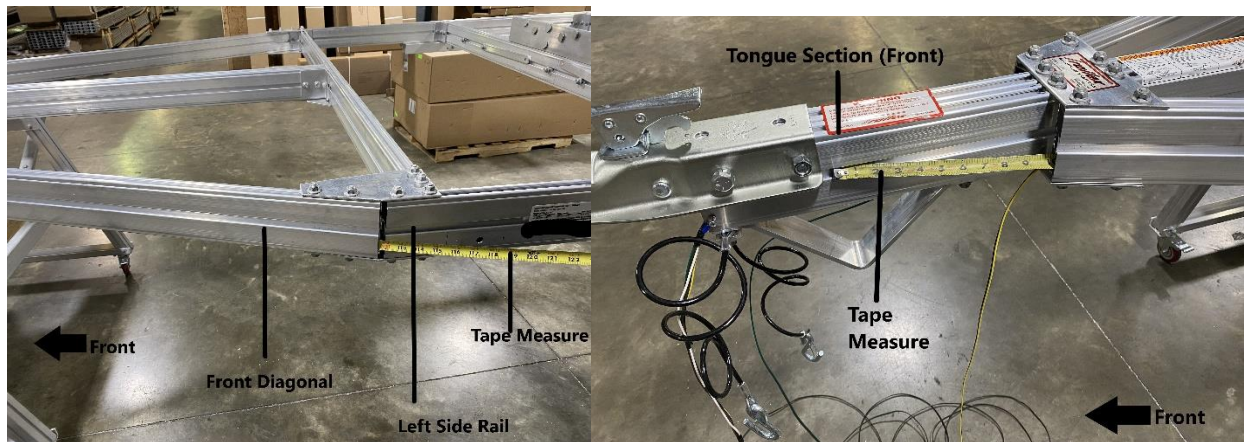


Install the snap bushing into the pre-drilled hole as shown. Run the snap bushing up the wiring harness and press the snap bushing into the pre-drilled hole. Use a standard screwdriver to press the snap bushing into place.



The wiring harness will now need to be ran to the rear of the trailer. Separate the wires so the green and brown will run down the passenger side while the yellow and brown wires will run down the driver's side.

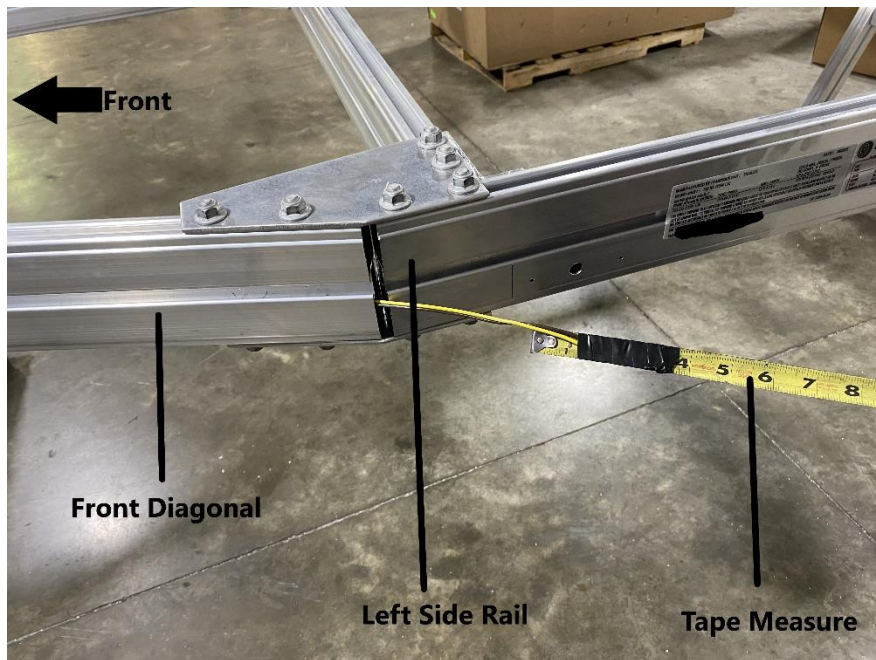




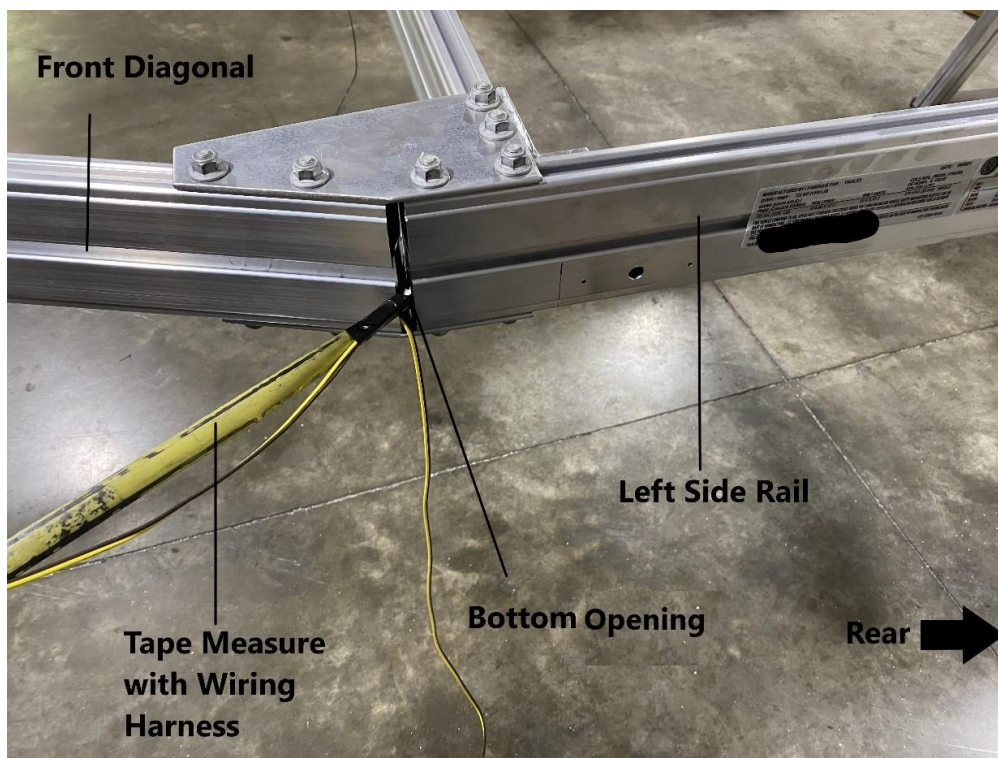
Locate the opening where the front diagonal is connected to the left side rail. Extend a tape measure through the front diagonal towards the front of the trailer.



Tape the yellow and brown wires of the wiring harness to the end of the tape measure using electrical tape.

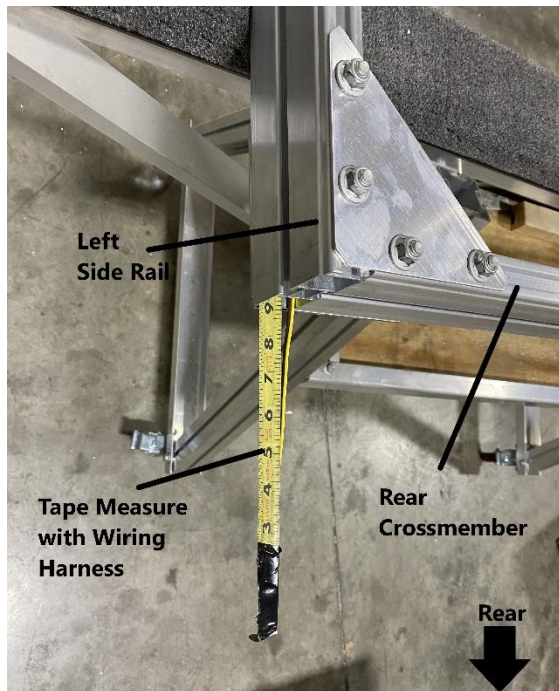


Retract the tape measure, pulling the wiring harness through the front diagonal. **Do not remove the tape yet.**

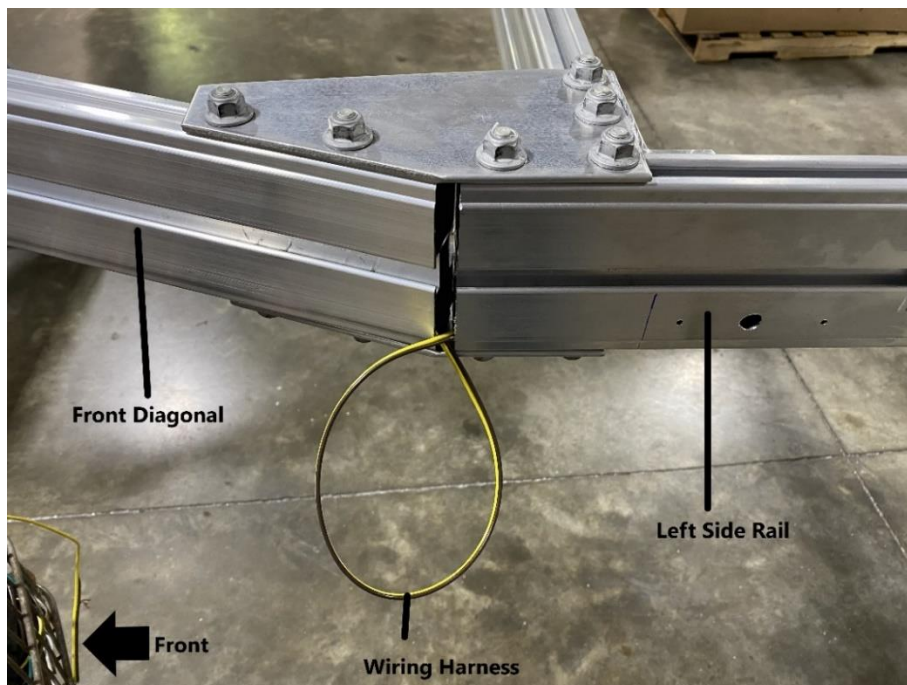


Insert the tape measure with wiring harness attached into the bottom opening of the left side rail. Extend the tape measure towards the rear of the trailer.

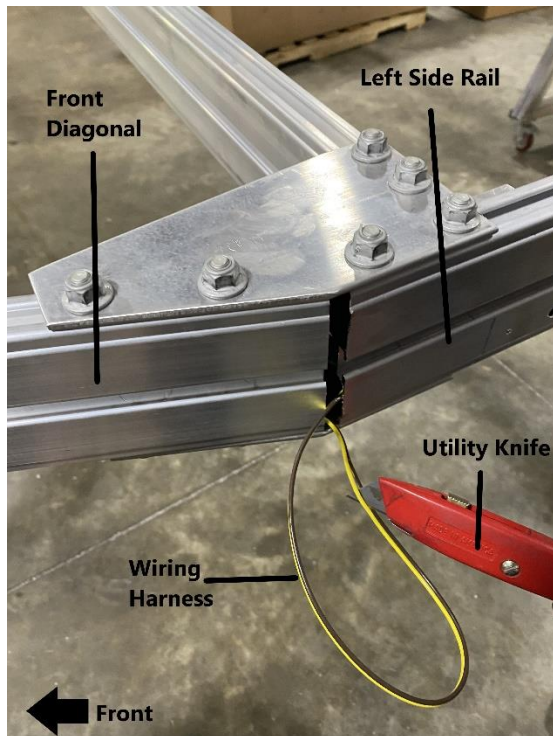




Continue extending the tape measure until it reaches the rear of the trailer.



Leave a small amount of wiring harness where the front diagonal connects to the left side rail. This will be used later to connect side marker lights to the harness. Remove the electrical tape and retract the tape measure. Repeat this process for the other side.



Use a utility knife to separate the yellow wire from the brown wire. **Do not cut through the wires.**

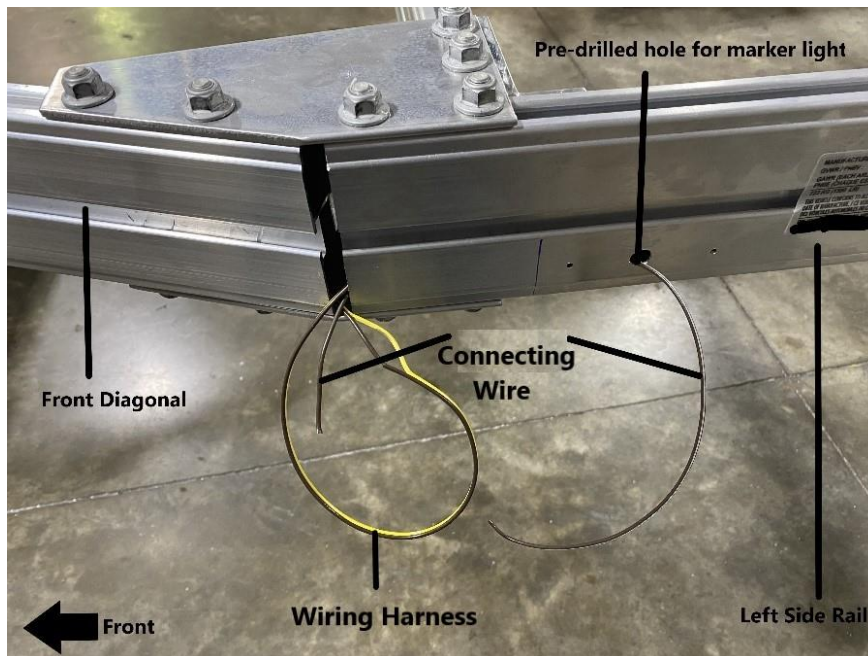


The wiring harness will now look like this.



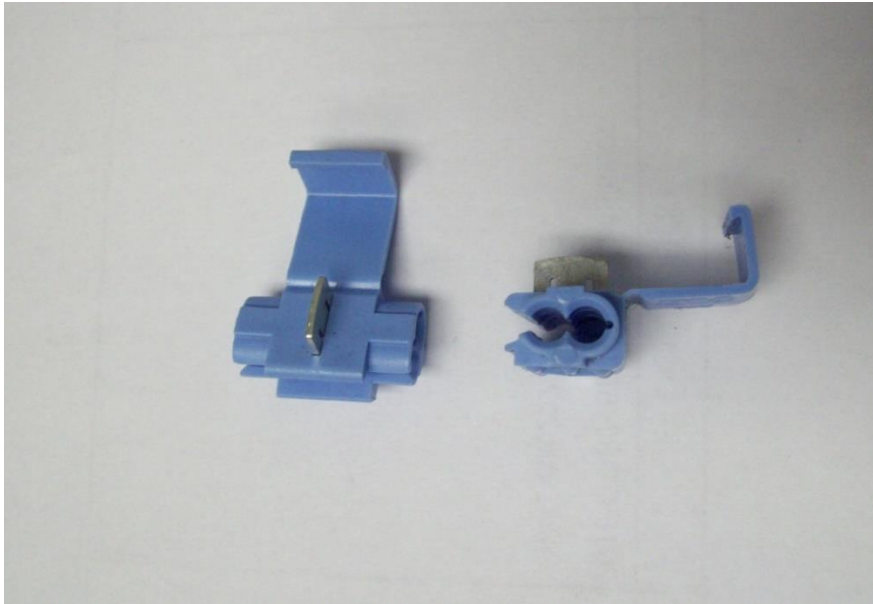


Locate the 2 foot connecting wire in the LED light kit. This will be used to connect the amber marker lights to the wiring harness.

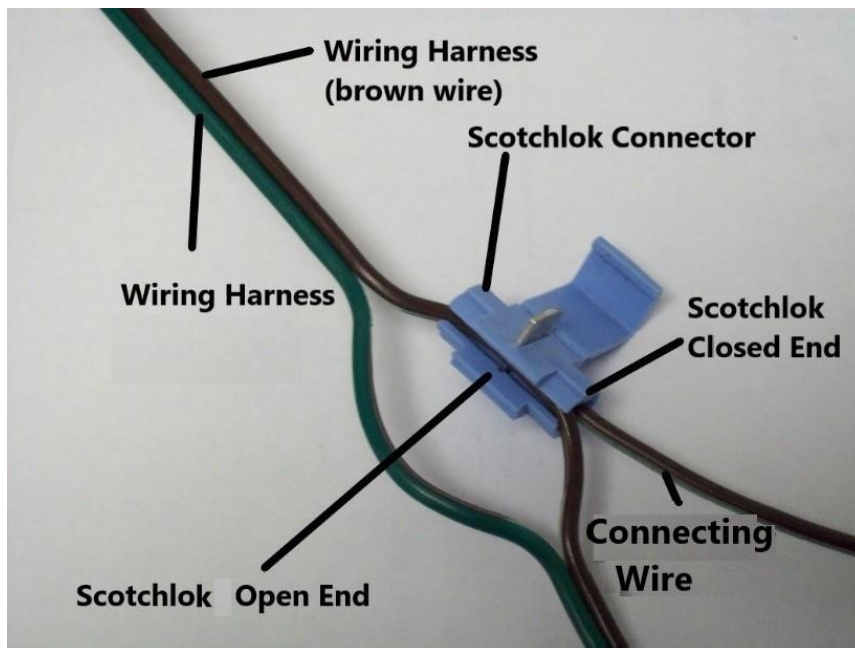


Run the connecting wire through the pre-drilled hole for marker light until it reaches the opening between the front diagonal and the left side rail.

## Scotchlok Connector Instructions

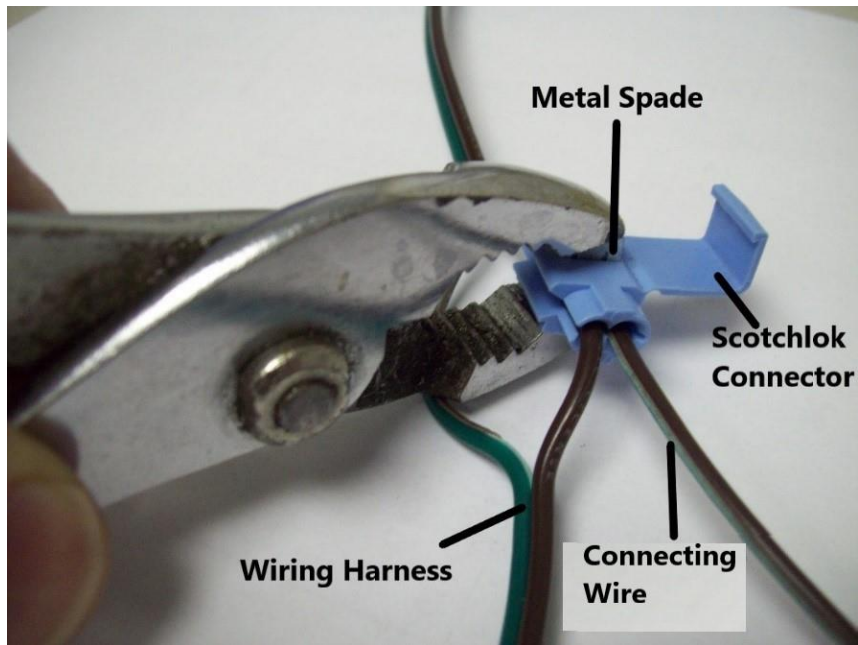


Locate (2) Scotchlok connectors. These will be found in the LED Light Kit. This will be used to attach the connecting wire to the wiring harness.

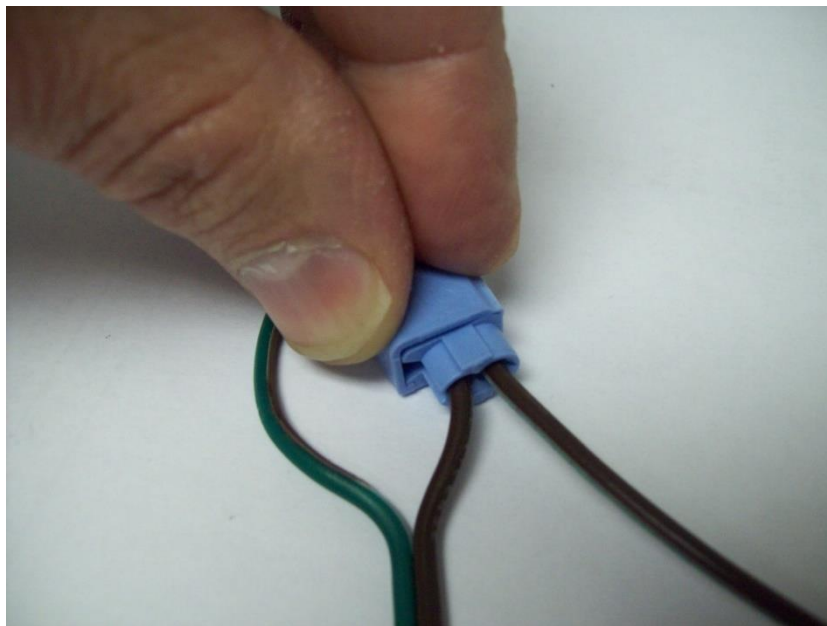


The above image shows how the wiring harness will connect to the connecting wire. Insert the connecting wire into the Scotchlok connector. This hole does not pass all the way through. The wire should go in about  $\frac{1}{2}$ ". Pass the brown wire of the wiring harness through the remaining open slot in the connector.

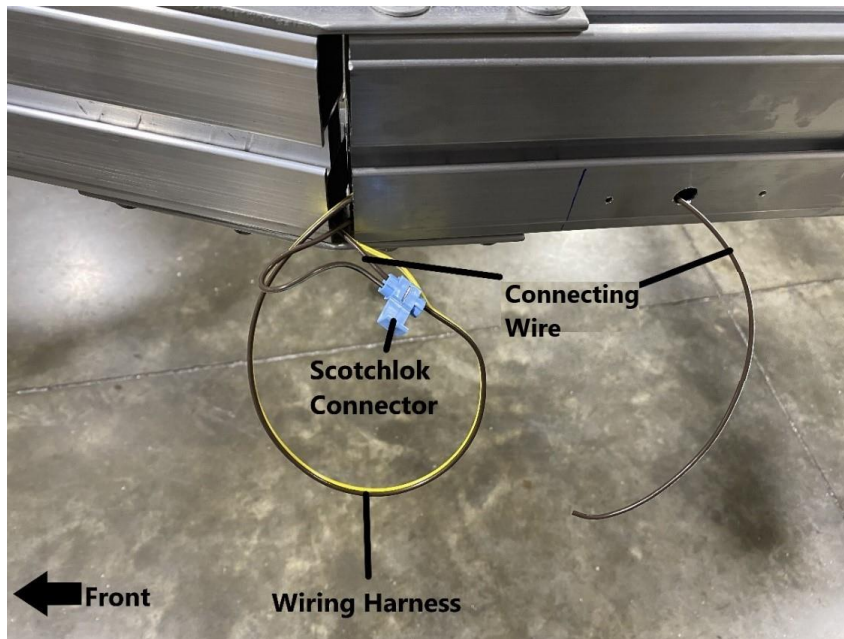




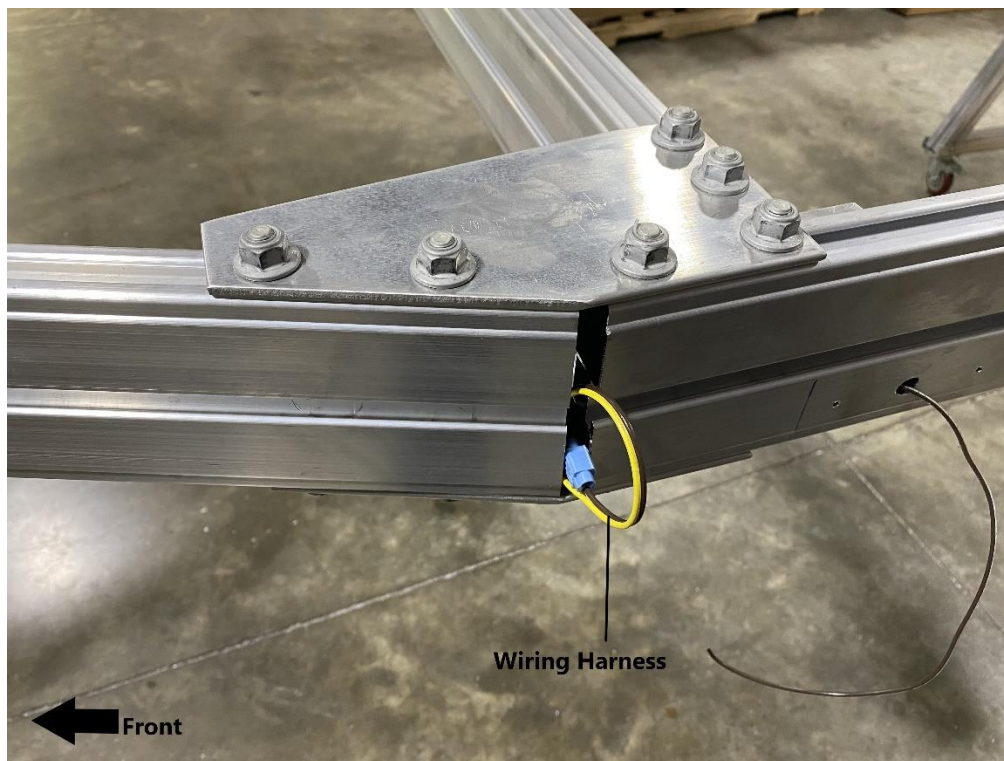
Use pliers to push the metal spade down until it is flush with the plastic of the Scotchlok Connector. This is what makes the electrical connection between the two wires.



Close the hinge cover on the Scotchlok Connector. Repeat this process for the other side.



When connected, the scotchlok connector will look like this.



Carefully push the wiring harness back into trailer.

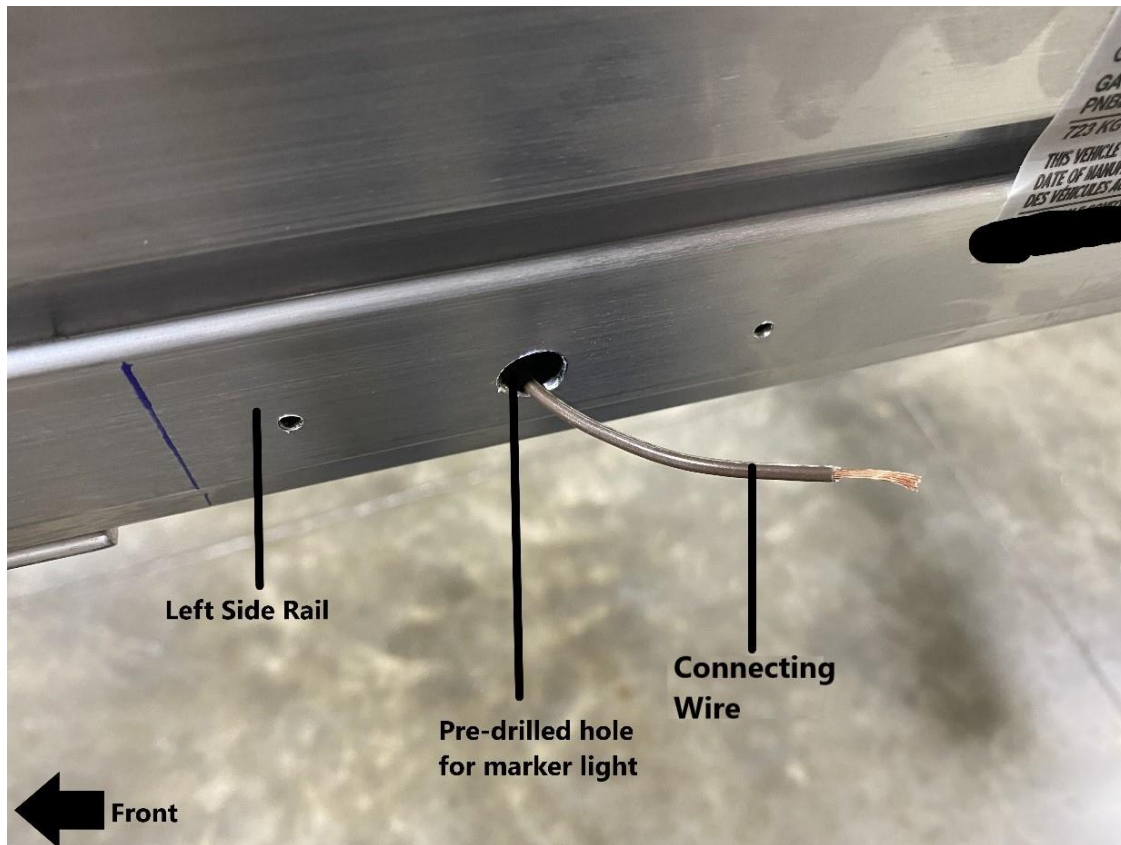




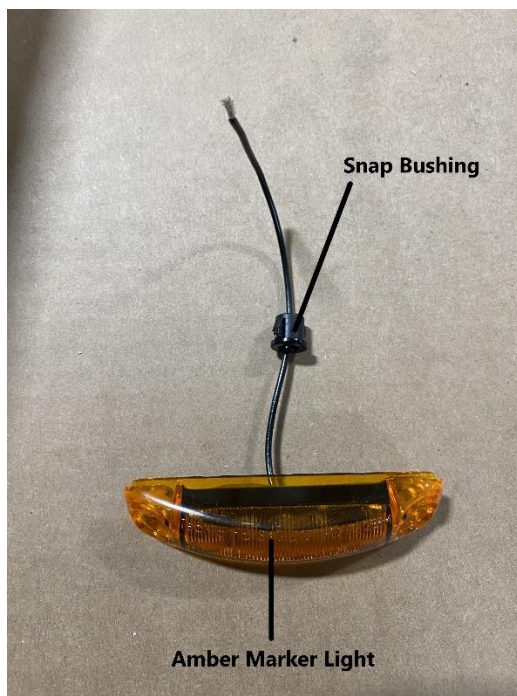
**Locate the (2) amber marker lights found in the LED Light Kit.**



**Strip the end of the amber marker light wire.**



Strip the end of the connecting wire that is in the pre-drilled hole for marker light.

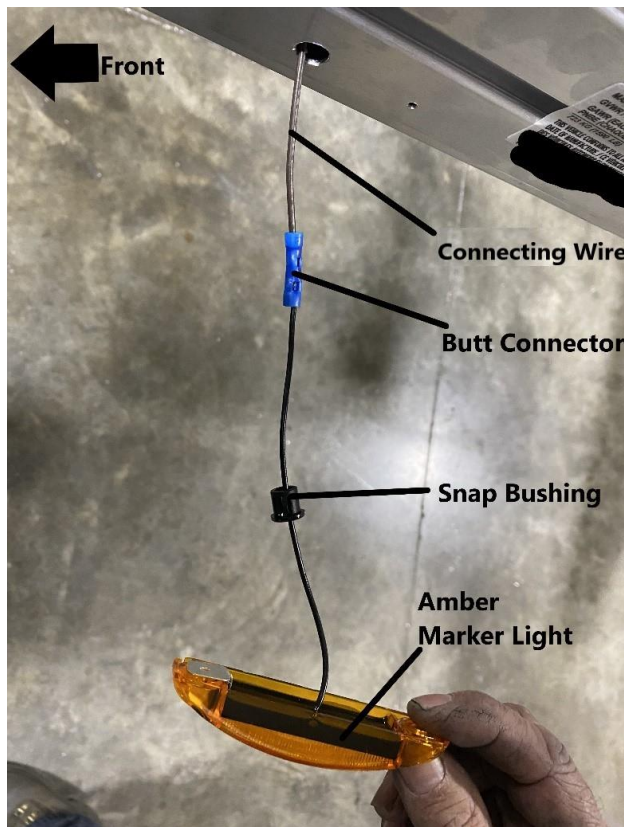


Place a snap bushing on the amber marker light as shown.

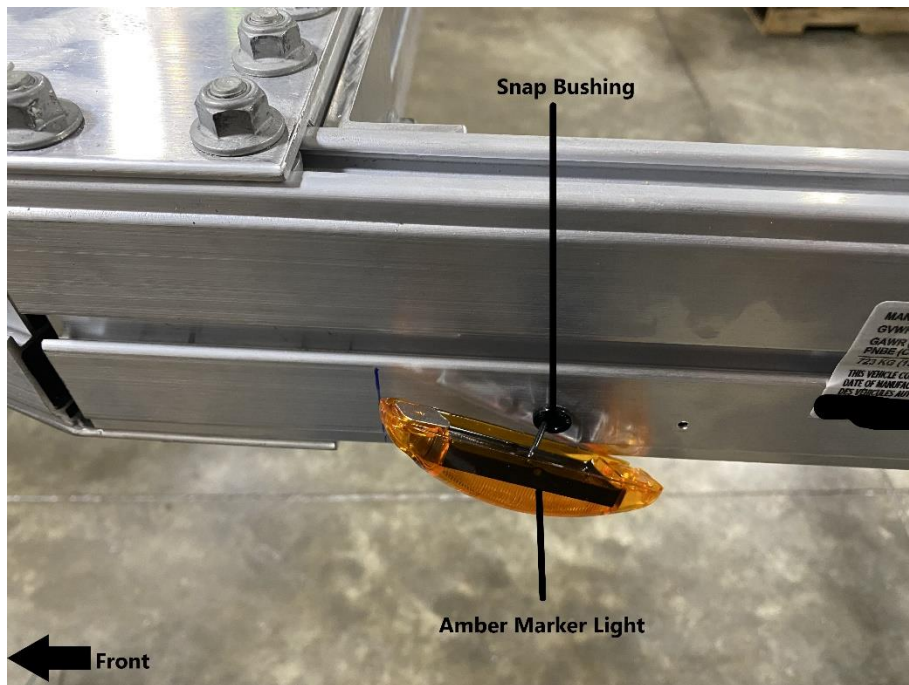




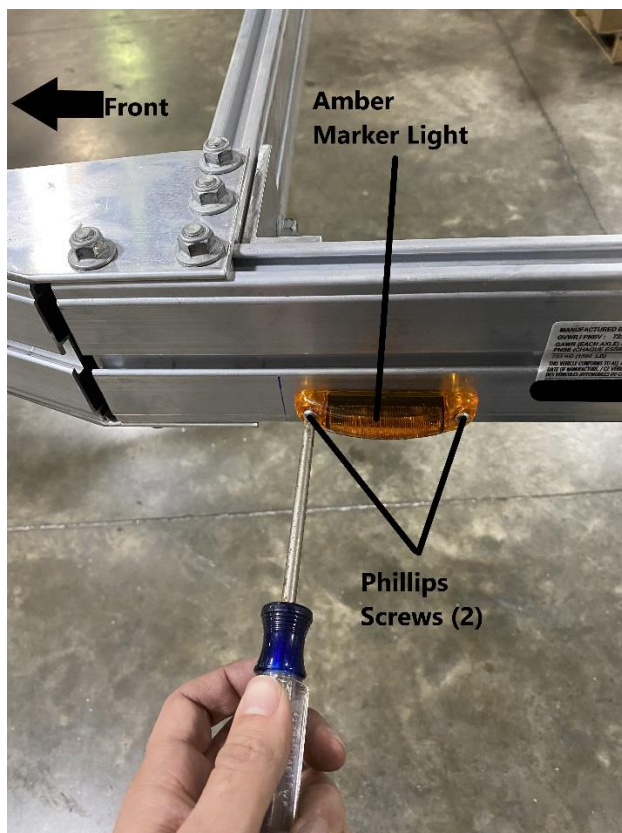
**Locate a butt connector found in the LED light kit.**



**Use the butt connector to attach the connecting wire to the amber marker light. Place both wires into the butt connector and crimp the butt connector.**

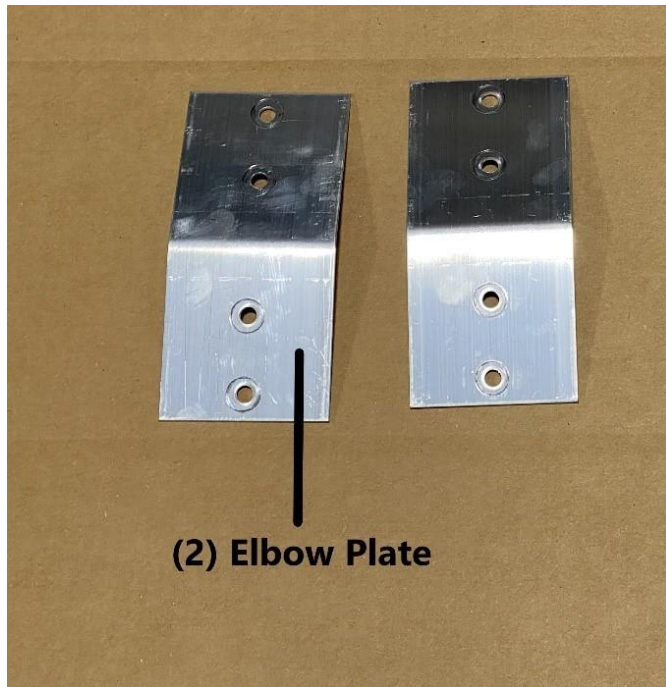


Push the wire into the trailer and install the snap bushing as shown.



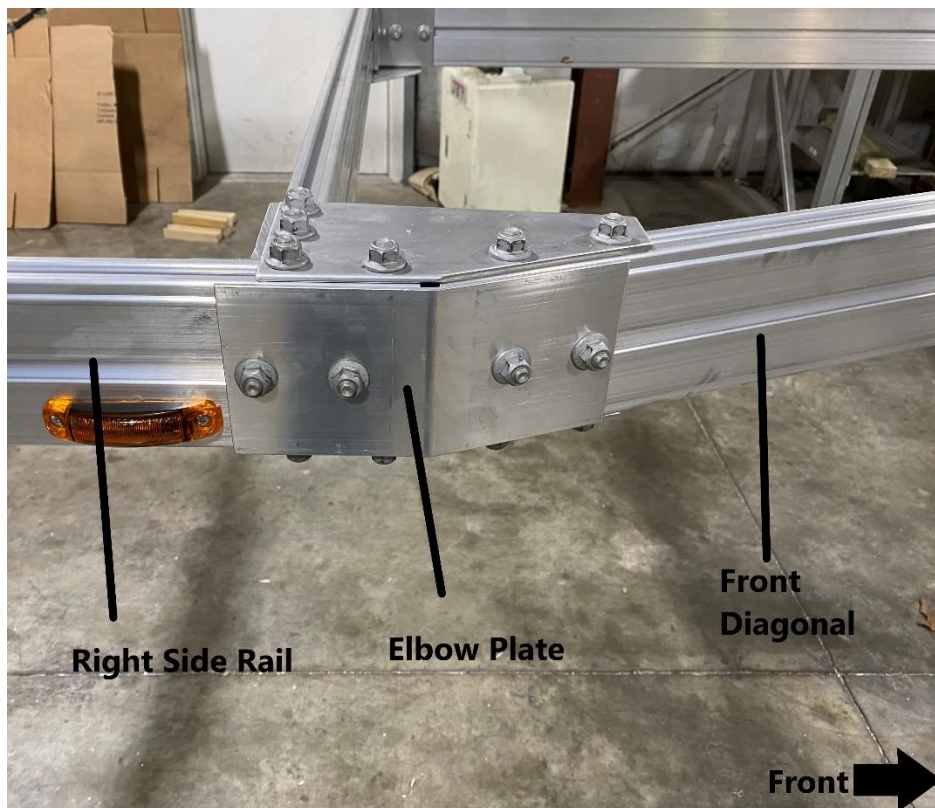
Locate (2)  $\frac{3}{4}$ " long Phillips screws found in the LED Light Kit. Install the amber marker light as shown. Repeat the process to install an amber marker light on the other side of the trailer.



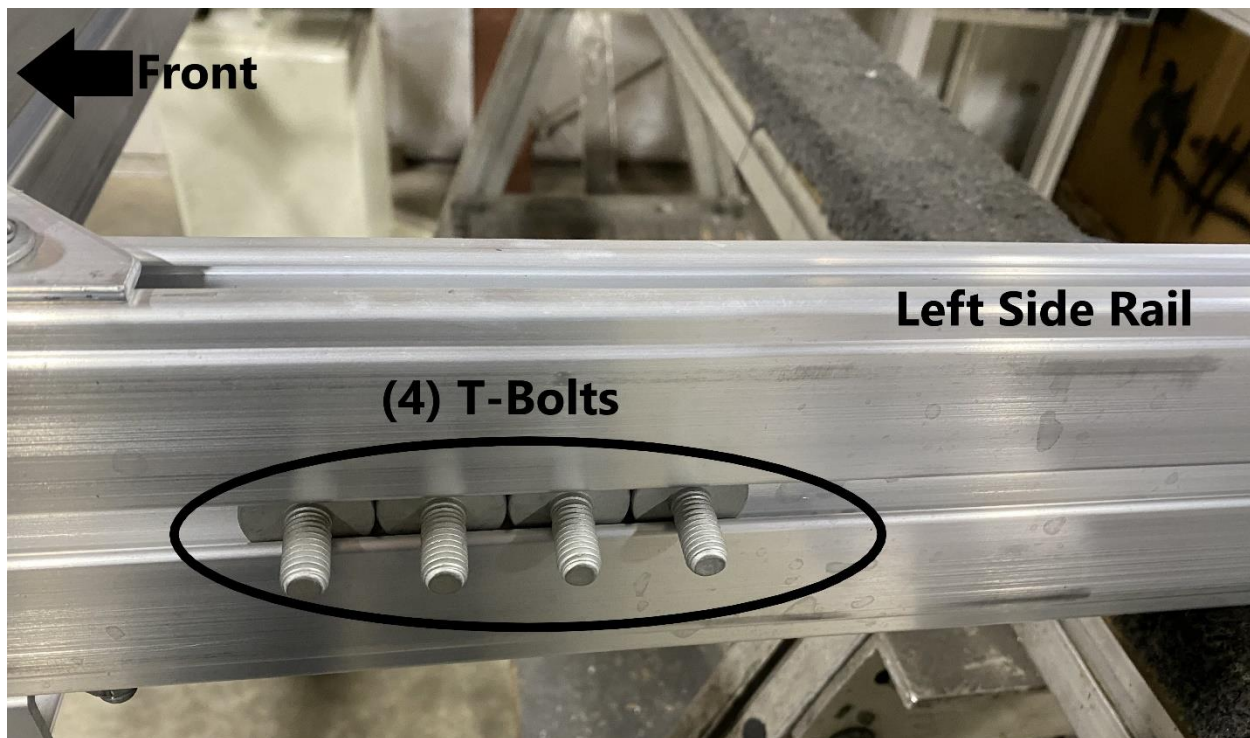


**(2) Elbow Plate**

**Locate (2) elbow plates.**



**Using the (4) T-bolts installed earlier, install the elbow plate as shown. Install (4) locknuts and tighten with a 9/16" wrench. Repeat the process for the other side.**

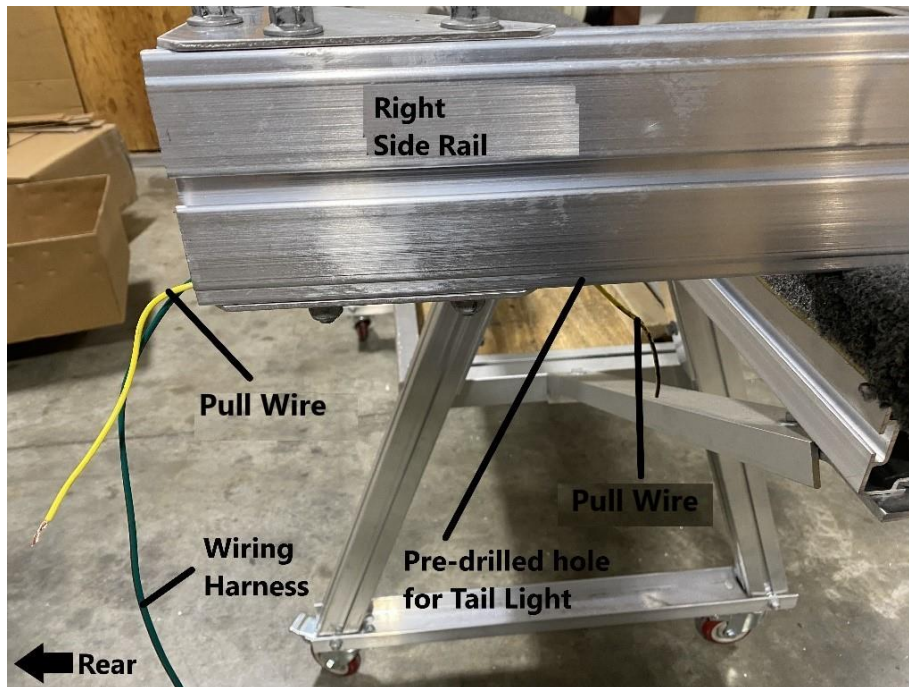


Move to the rear of the trailer. Install (4) T-Bolts into the outside groove of the left and right side rails. These will be used later to install the fenders.

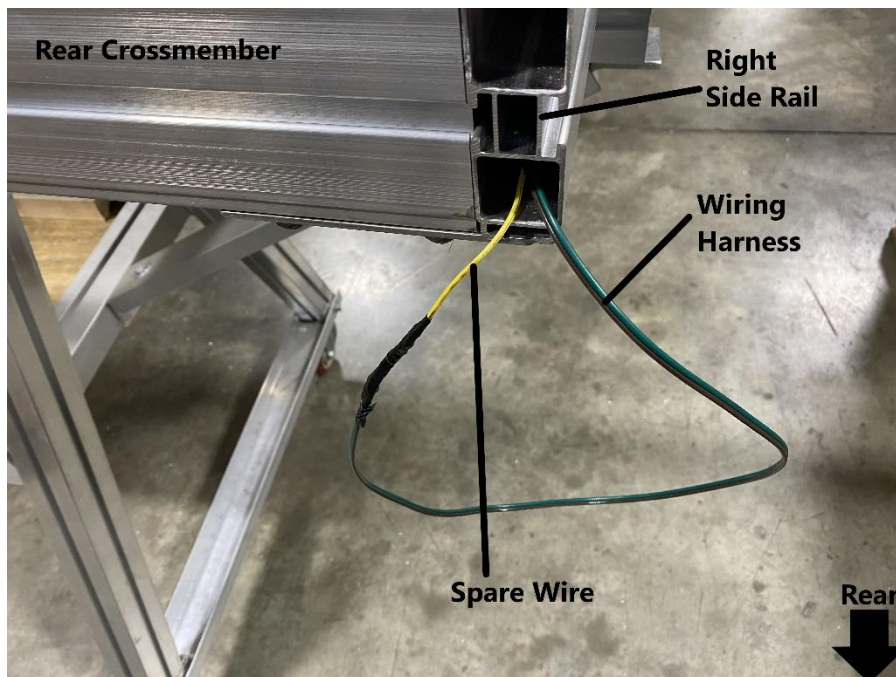


Locate the 2 foot pull wire.

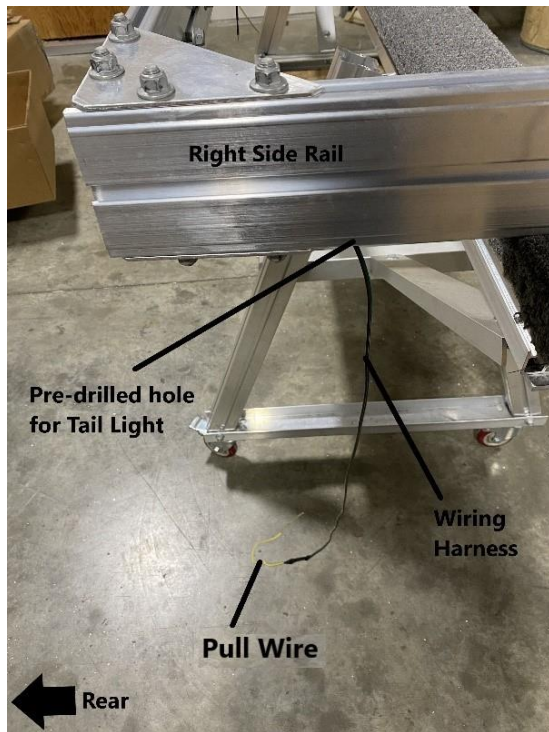




Locate the pre-drilled hole for tail light on the bottom of the right side rail. Run the 2 foot pull wire through the pre-drilled hole and out the end of the right side rail.



Use electrical tape to connect the end of the wiring harness to the pull wire.



Move the wiring harness through the pre-drilled hole for tail light until the wiring harness is hanging underneath the right side rail. Remove the electrical tape and the pull wire.

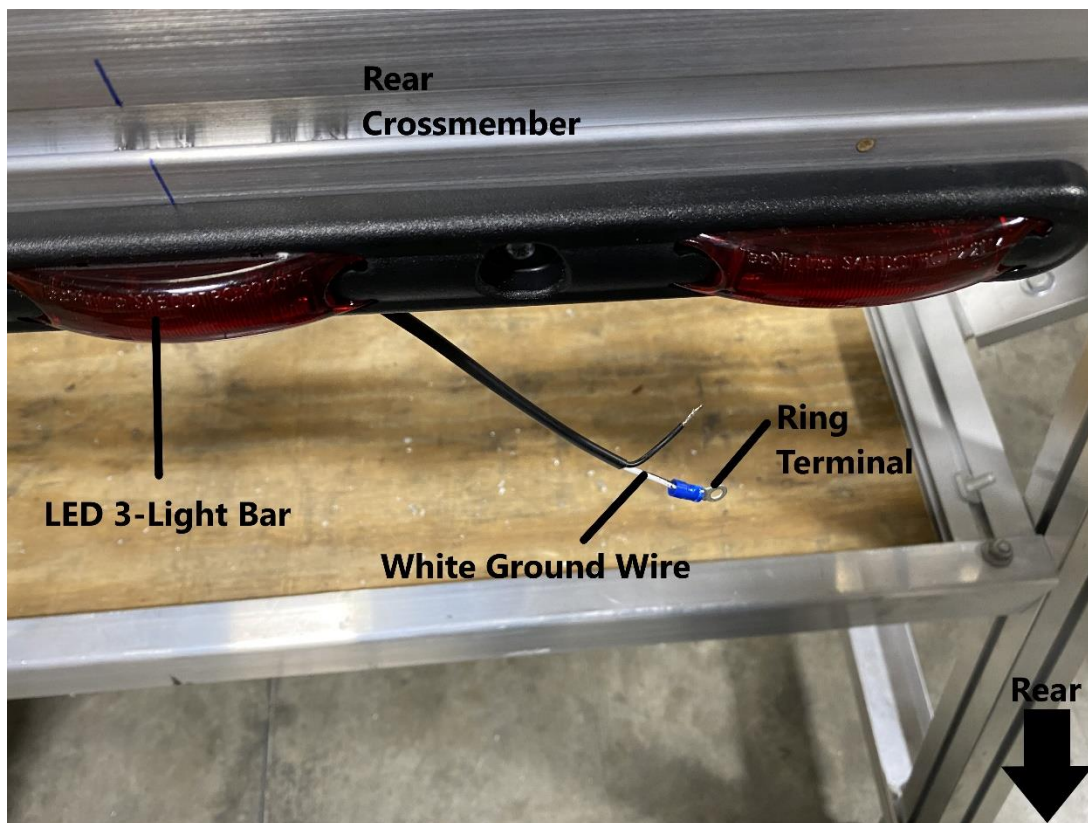


Install a snap bushing to the pre-drilled hole for tail light. Repeat this process on the other side of the trailer.





Locate a ring terminal found in the LED Light Kit.



Locate the LED 3-Light Bar installed on the rear crossmember. Crimp a ring terminal to the white ground wire of the LED 3-Light Bar as shown.

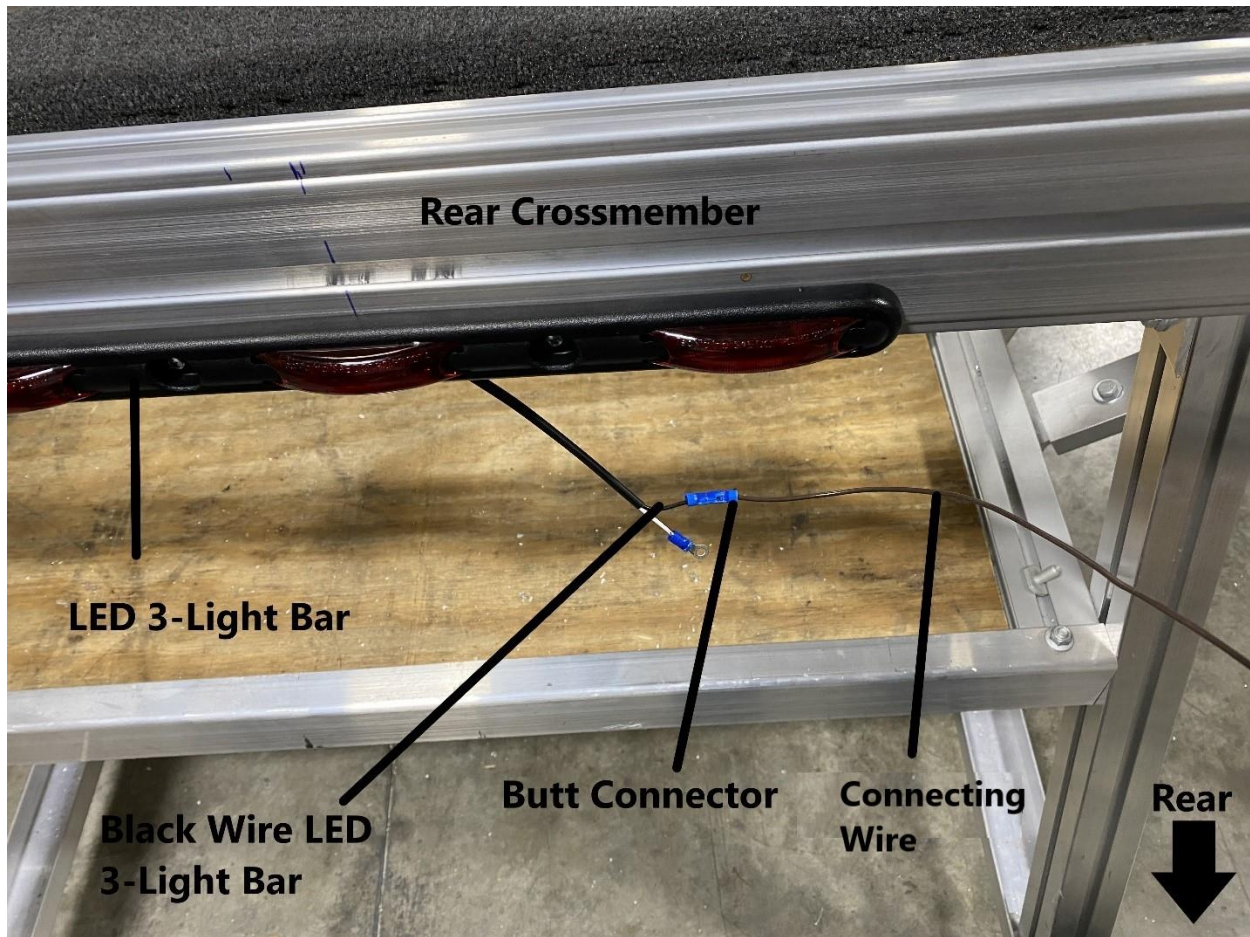


**Locate the 5 foot connecting wire in the LED Light Kit.**

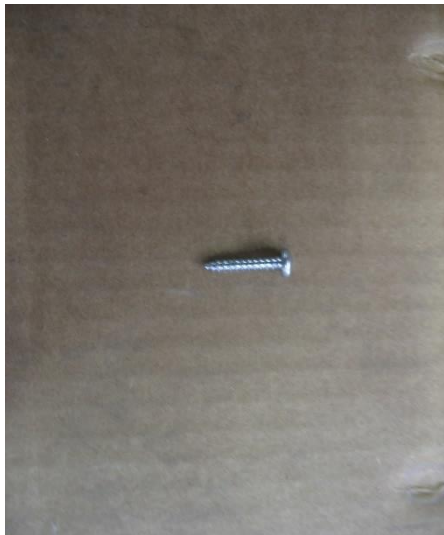


**Locate the butt connectors found in the LED Light Kit.**

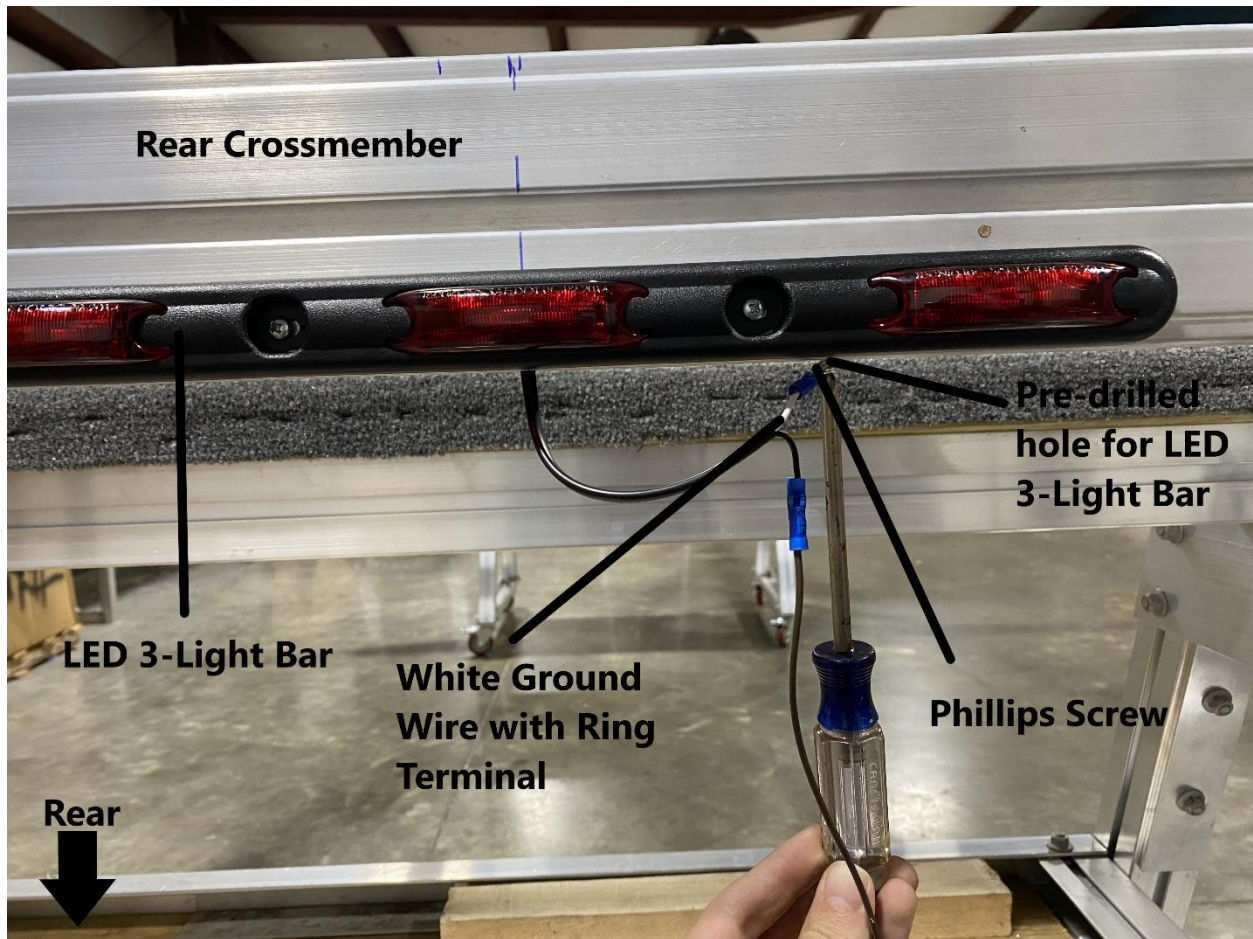




Use a butt connector to attach the black wire on the LED 3-Light Bar to the connecting wire. Insert both wires into the butt connector and crimp the butt connector.



Locate the  $\frac{3}{4}$ " long Phillips screw that is found in the LED Light Kit.

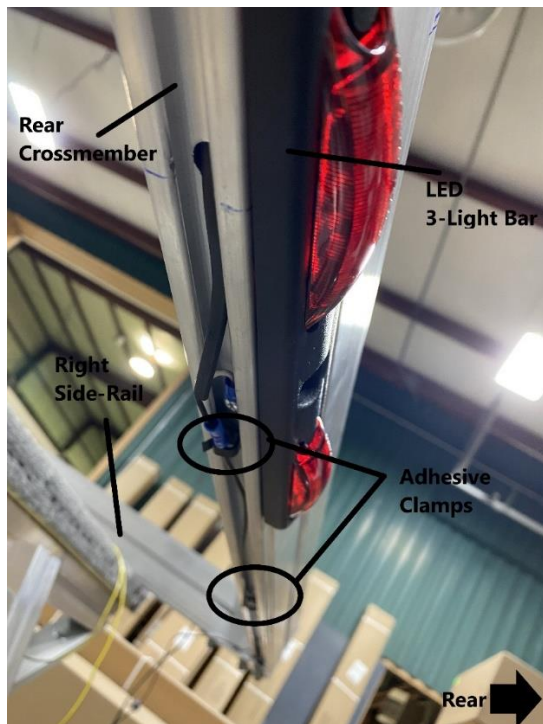


Use the Phillips screw to install the white ground wire with ring terminal of the LED 3-Light Bar to the pre-drilled hole found in the bottom groove of the rear crossmember.

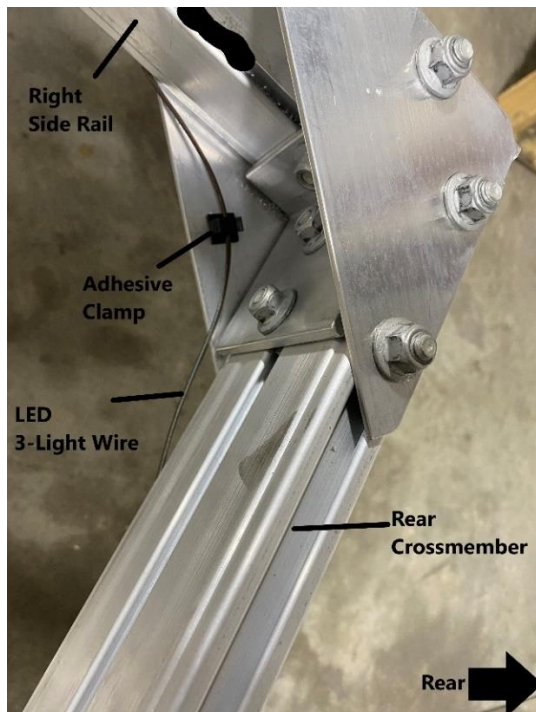


Locate the adhesive clamps found in the LED Light Kit.





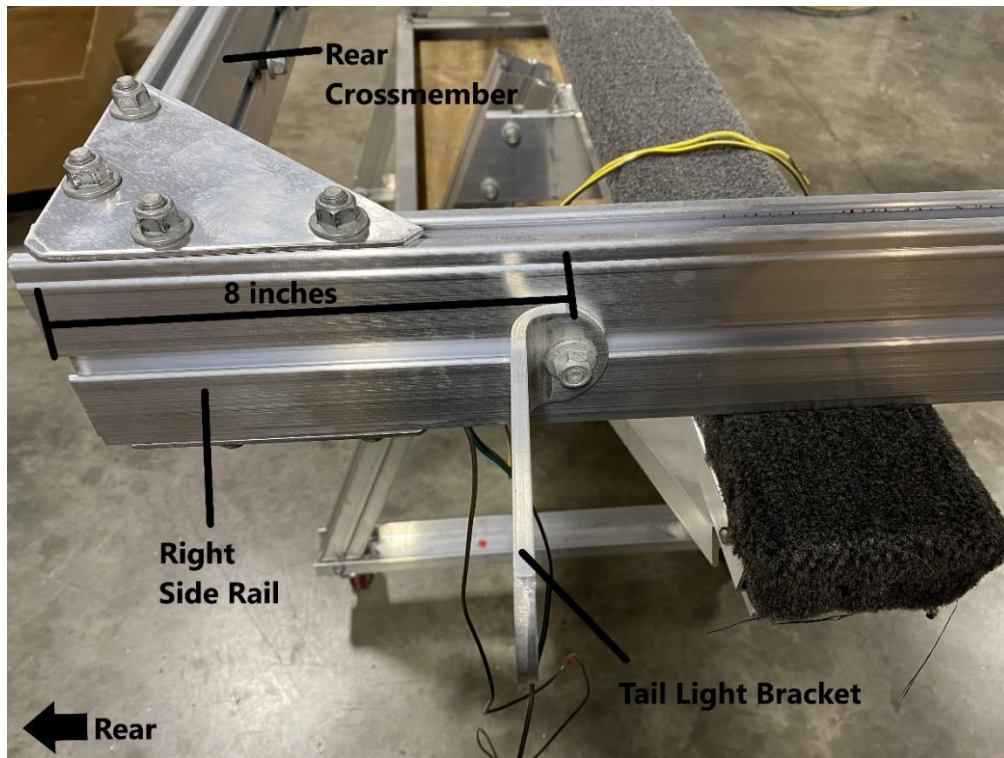
Use adhesive clamps to run the LED 3-Light Bar wire and connecting wire towards the right side rail as shown. Remove the adhesive back from the clamp, place the wire in the clamp, then install the clamp into the bottom groove of the rear crossmember.



Continue running the LED 3-Light wire and connecting wire towards the right side sail. Place an adhesive clamp as shown.

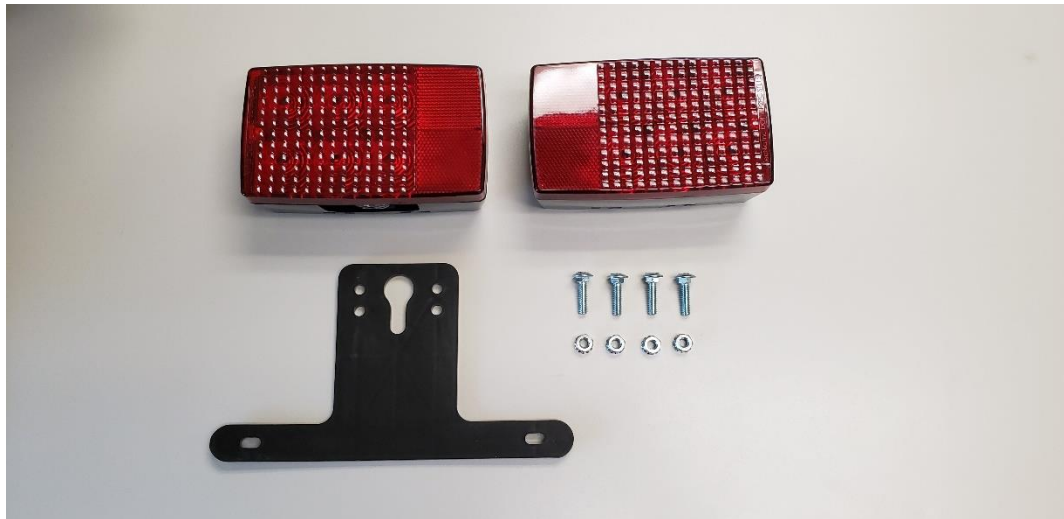


Locate (2) Tail Light Brackets.

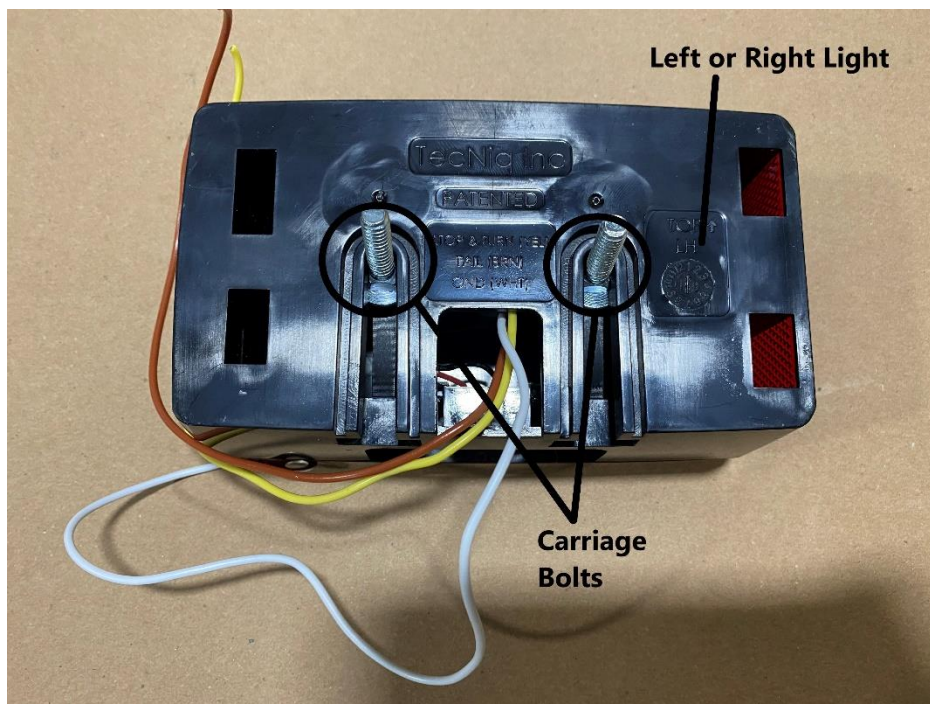


Install the Tail Light Bracket as shown. Measure 8 inches from the end of the right side rail and slide the T-bolt on the tail light bracket into the groove of the right side rail. Tighten the locknut using a 9/16" wrench. Repeat this process on the left side rail to install both tail light brackets.





Locate (2) tail lights, (1) license plate bracket, (4) carriage bolts and (4) nuts. These will be inside the LED Light Kit.



Place the (2) Carriage bolts into the grooves in the tail lights as shown. Note that the back of tail light shows if the light is the left/driver side (LH) or the right/passenger side (RH). It will also show which end is the top of the tail light.