

SUT-350-ST

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Suggested Tools:

(3) 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

Fish Tape (optional for wiring)

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

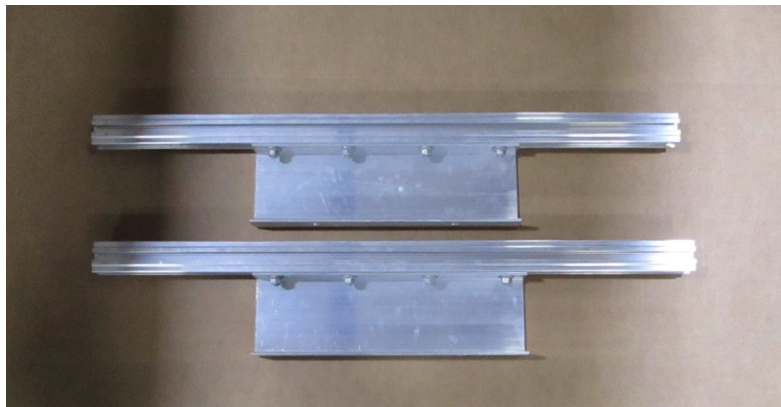


TONGUE ASSEMBLY (COMPLETE)

Front and Rear Tongue Sections (**Part X**)



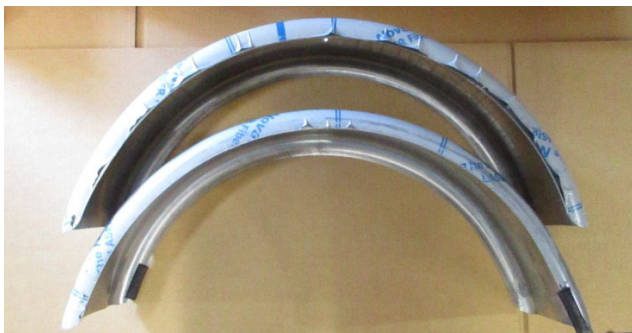
Crossmember Assembly (2) Front and Rear are the same (**Part B**)



Siderail Assembly (2) Left and Right are the same (**Part C**)



Axle (**Part A**)



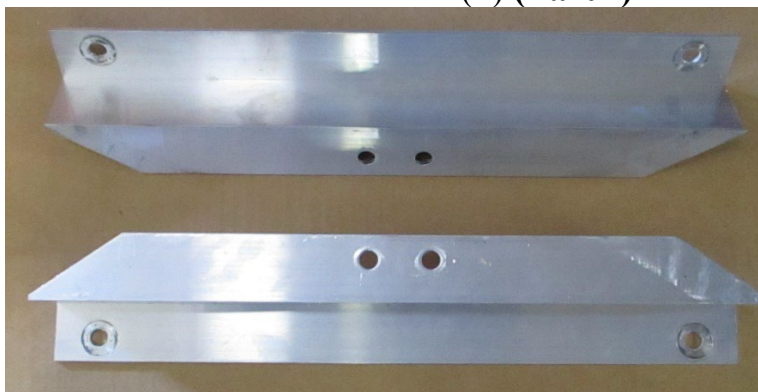
Fenders (2) **(Part G)**



12" Tires (2) **(Part Y)**



Inner Fender Braces (2) **(Part I)**



Outer Fender Braces (2) **(Part H)**



Bow Stand **(Part V)**



6 Inch Roll **(Part D)**



Spare Parts **(Part W)**



Skid (**Part U**)



Padded Cradles (4) (**Part M**)



Front Cradle Holder (**Part K**)



Rear Cradle Holder (**Part L**)



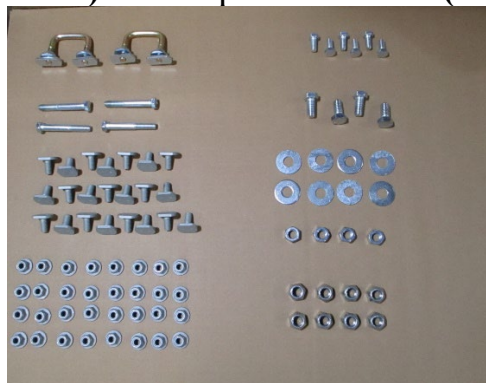
1 7/8" Coupler (**Part R**)



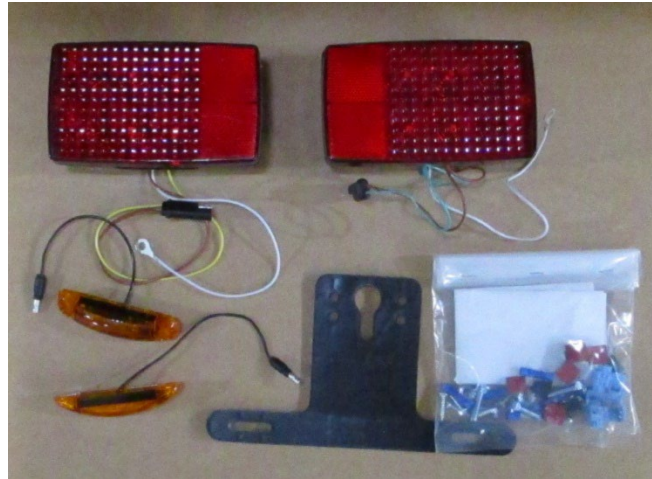
Coupler Hardware (**Part S**)



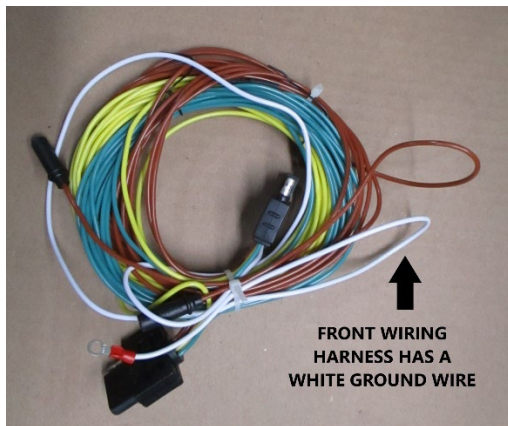
Splice Plates (**Part T**)



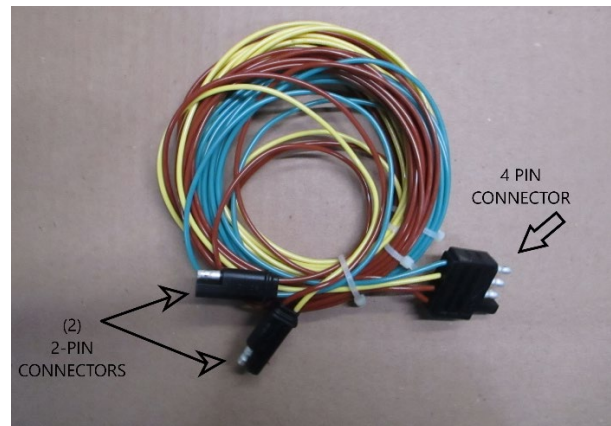
Hardware Bag Contents (**Part F**)



Tail Light Kit (**Part J**) Boxed on left, unboxed on right



Front Wiring Harness (**Part N**)



Rear Wiring Harness (**Part O**)



Tail Light Brackets (2) (**Part P**)

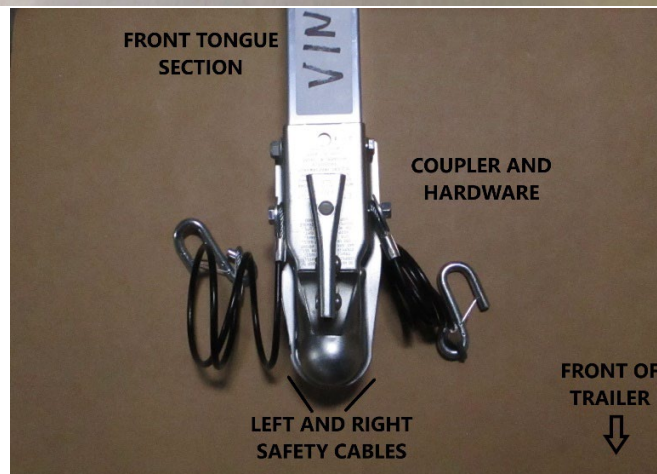
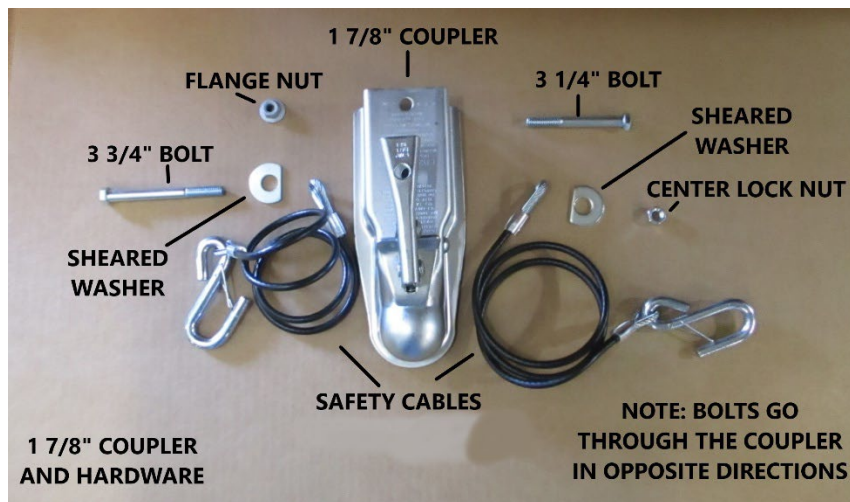


Marker Light Bracket (**Part Q**)

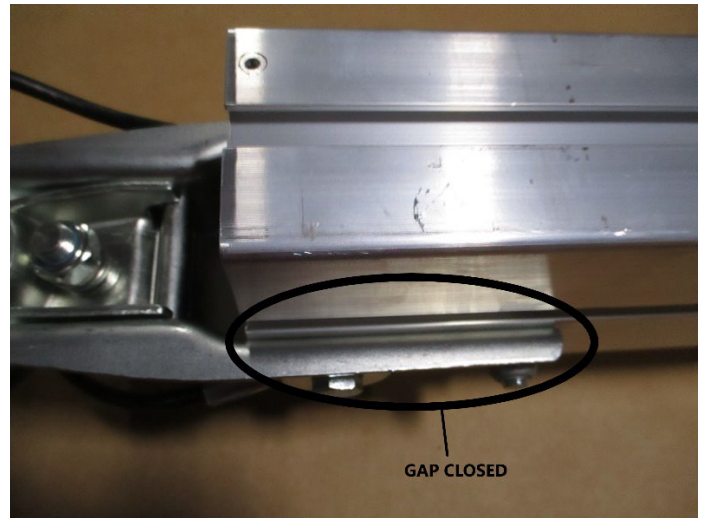
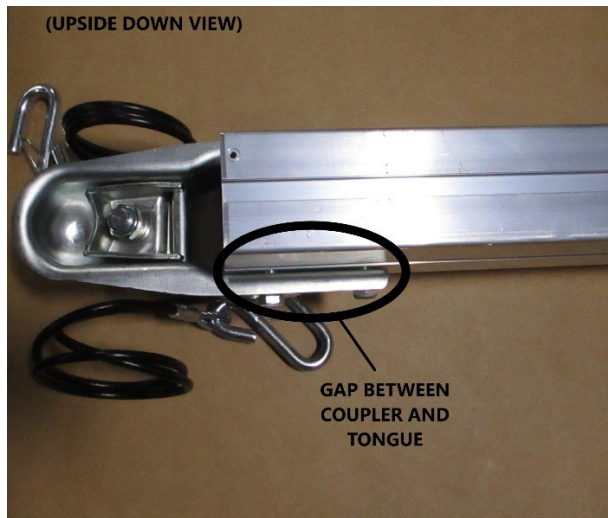
COUPLER TO TONGUE ASSEMBLY



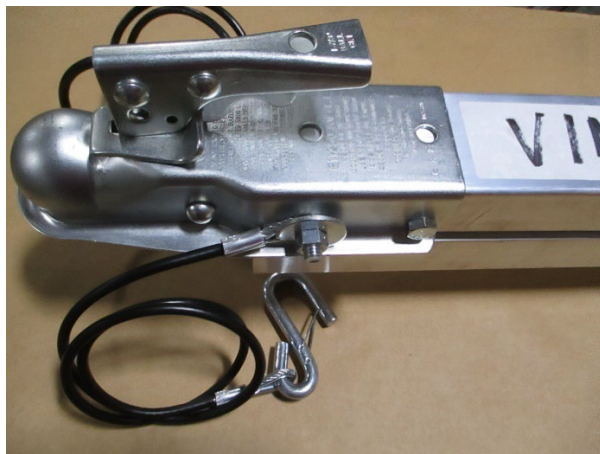
Locate the front tongue section (**Part X**), the coupler (**Part R**), and the bag of coupler hardware (**Part S**).



Using the above pictures as a guide, install the coupler onto the tongue. The 3 1/4" bolt goes into the rear hole of the coupler, and the 3 3/4" bolt goes through the front hole. NOTE: When installing the cables, make sure the cable points towards the front of the trailer and the coil is going OUT away from the tongue. NOTE: The sheared washer is installed on the outside of the safety cable.

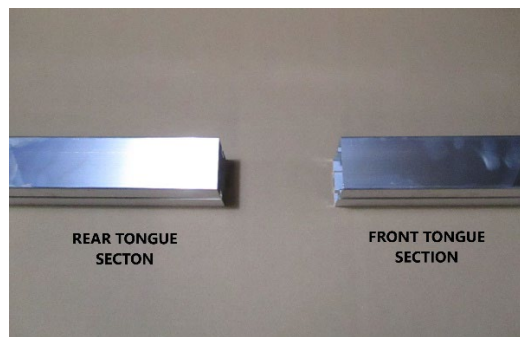


Once the coupler is installed onto the tongue, turn the assembly over (as shown above) and there will be a gap between the coupler and tongue. Tighten the bolts on the coupler until the gap is closed and the coupler is tight against the tongue. NOTE: Tighten the bolts securely but DO NOT OVERTIGHTEN. The bolts may still turn once secured.

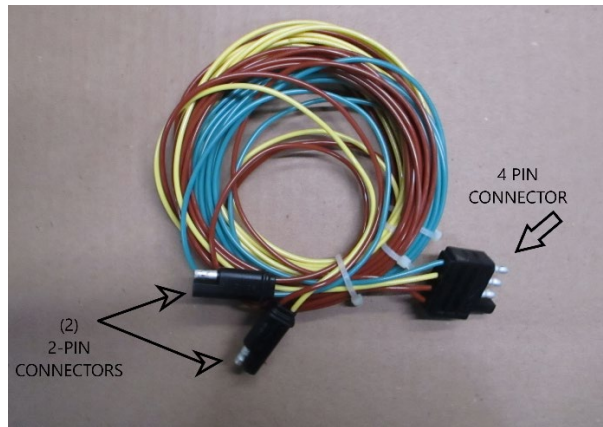
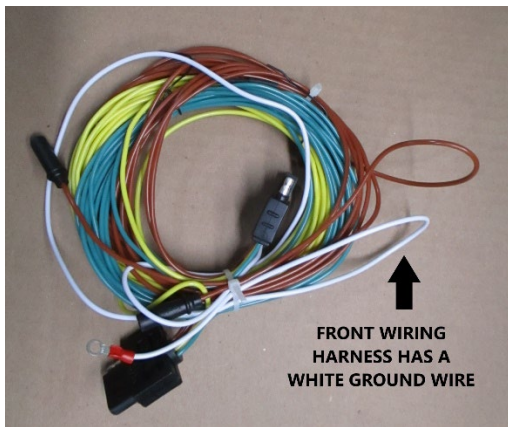


Alternate views of the coupler installed and secured to the tongue assembly.

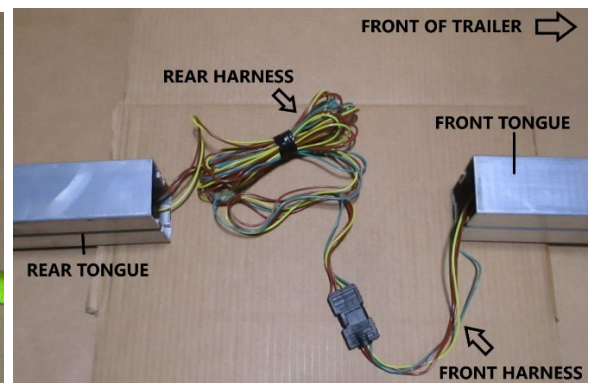
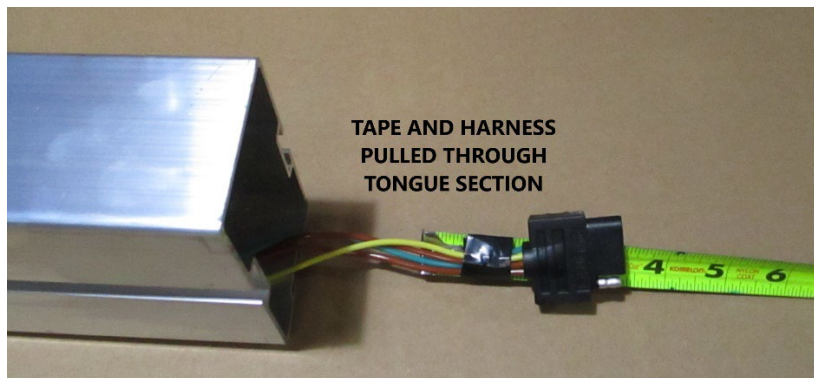
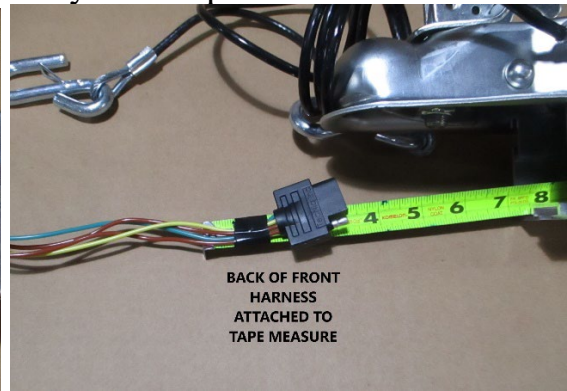
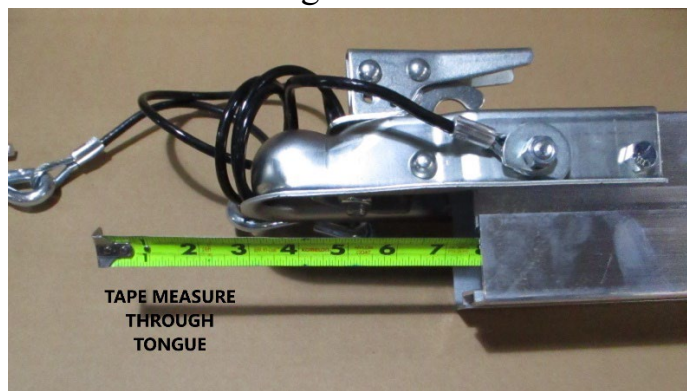
TONGUE ASSEMBLY



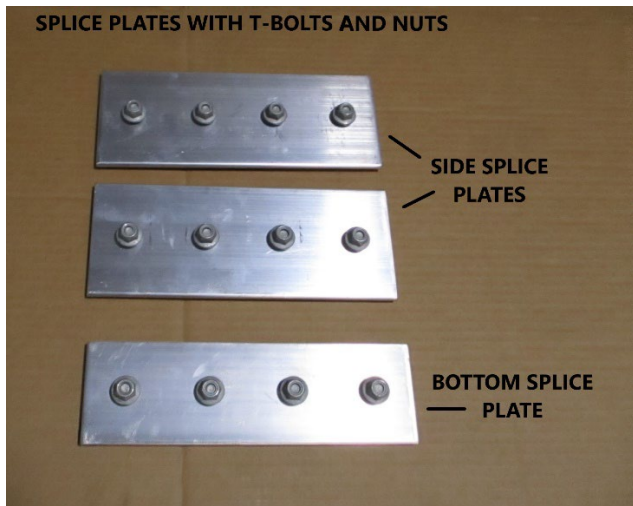
Once the coupler is installed, lay the tongue sections end to end (as shown above).



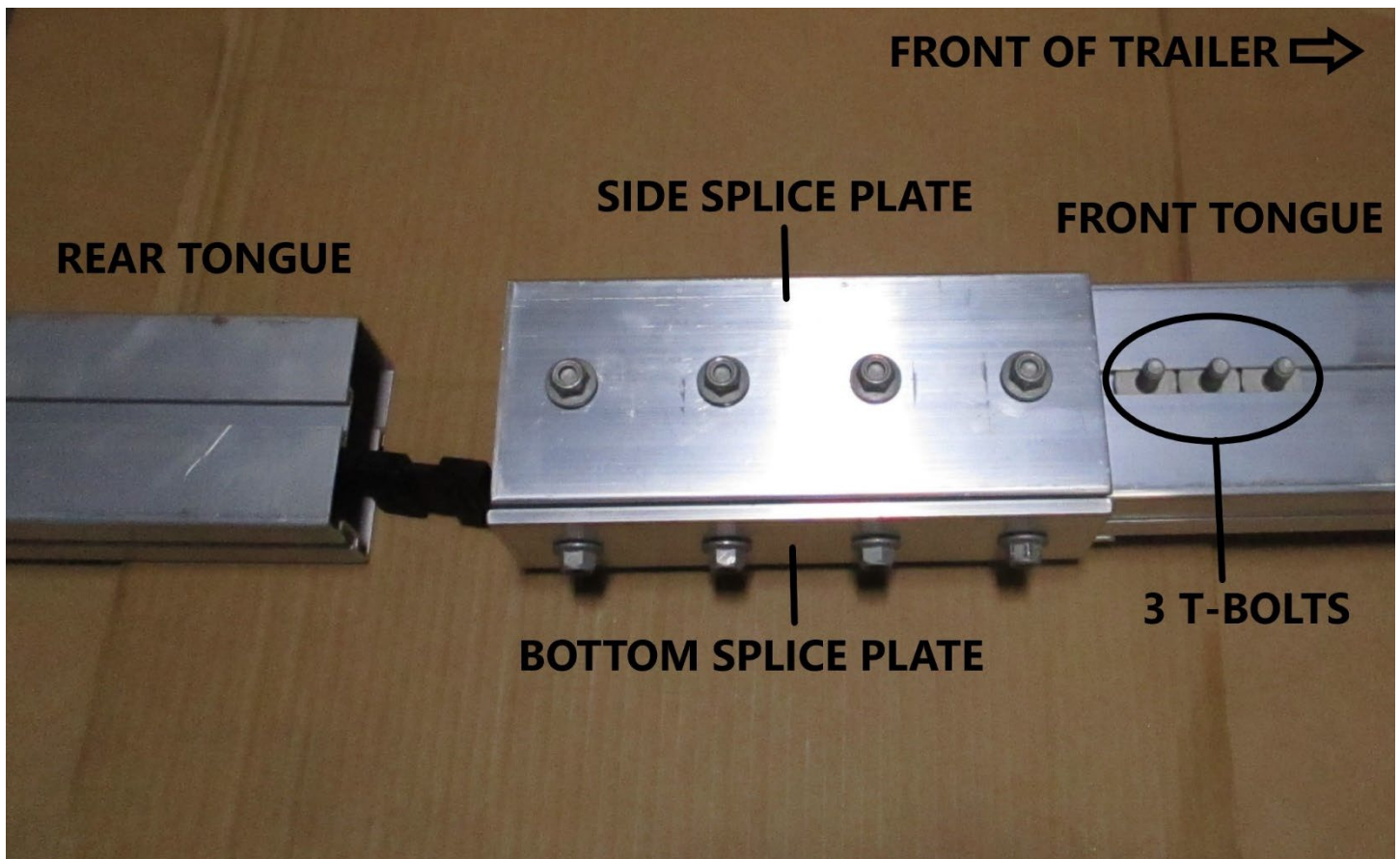
The wiring harness consists of two sections, a Front **(Part N)**, and a Rear **(Part O)**. Locate the front wiring harness, with the white ground wire, as shown in the left picture above. This end goes at the front of the trailer by the coupler.



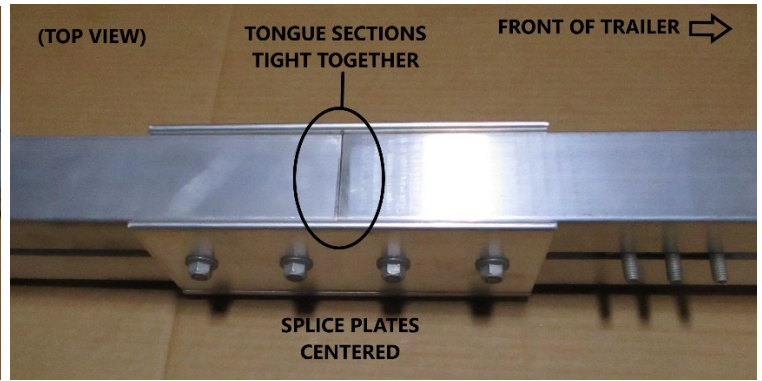
Trailex recommends using a tape measure to pull the wiring harness through the tongue sections. Feed the tape measure through the tongue section and attach the tape measure to the harness with electrical tape. Then, retract the tape measure through the tongue. Repeat for both tongue sections, as shown above. Once the harness is through the tongue sections, plug in the 4-pin connectors. **(This is a universal harness and there will be excess wire)** Pull the rear harness forward leaving enough room at the back to connect the tail lights. Gather any excess wire and tape it, as shown. Then, tuck the wire and 4-pin connectors inside the tongue and slide the sections together.



Locate the bag of splice plates and hardware (**Part T**), install the T-bolts and nuts, but do not tighten. Locate and remove 6 T-bolts from the hardware bag (**Part F**).



Install 3 T-bolts on each side of the front tongue section. Then, slide all 3 splice plates onto the front tongue section.

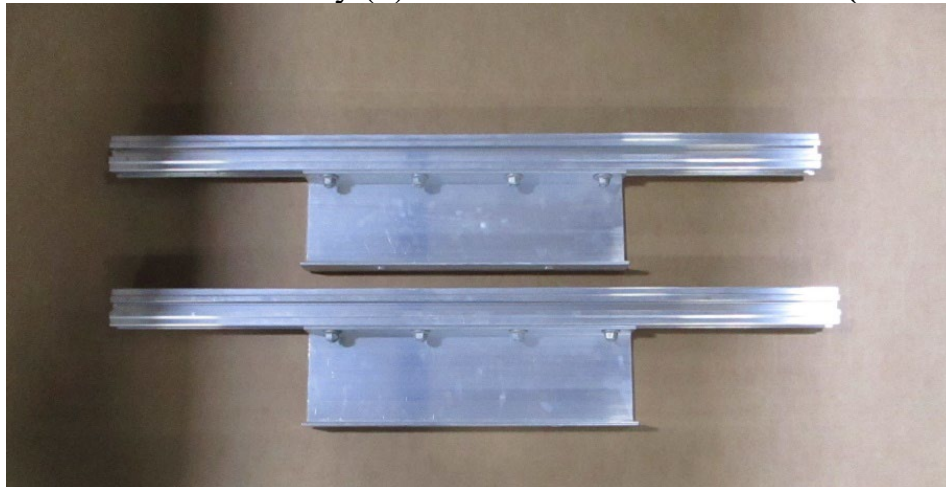


Bring the front and rear tongue sections tightly together and center the splice plates between them, as shown. Tighten the nuts on the splice plates, then look down the length of the tongue to make sure it is straight. NOTE: Some adjustments may be necessary.

FRAME ASSEMBLY

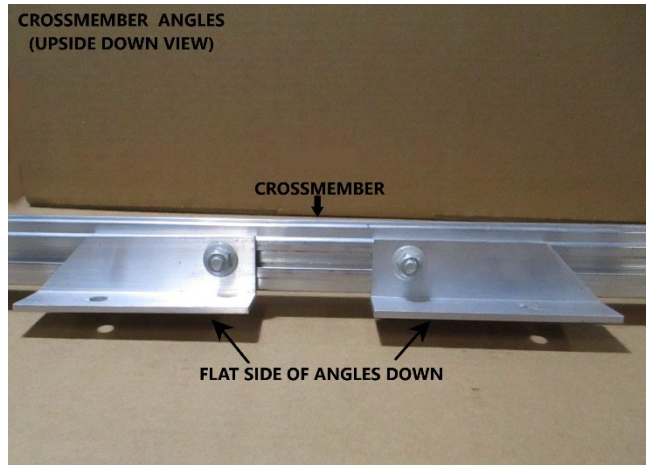
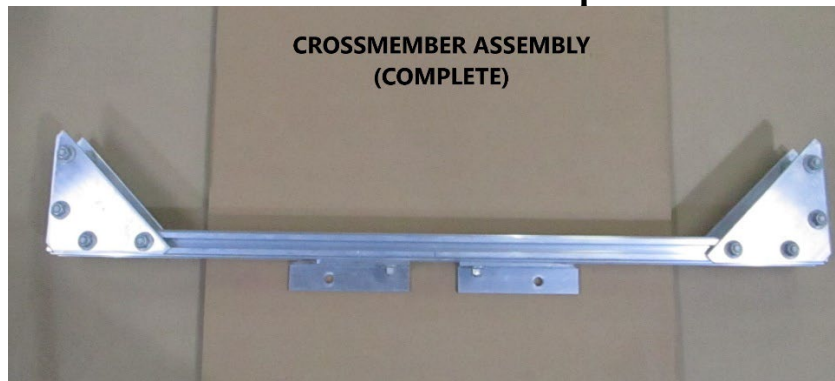


Crossmember Assembly (2) Front and Rear are the same **(Part B)**



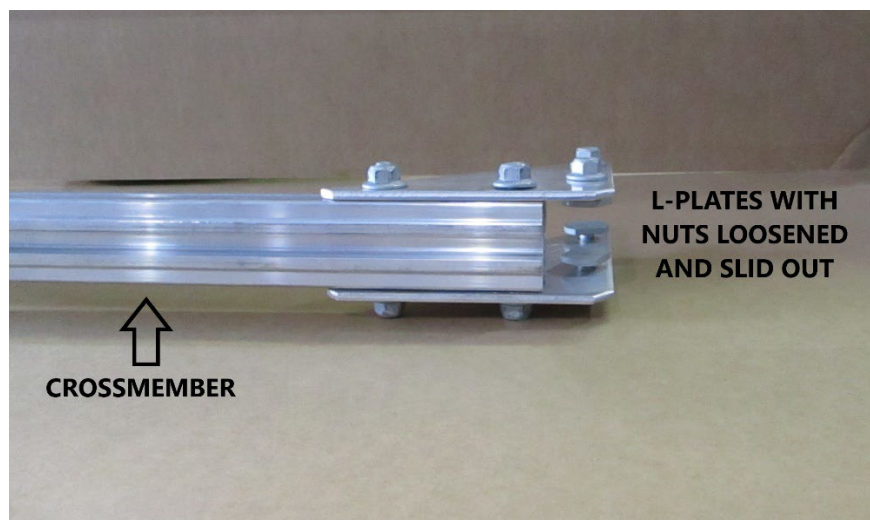
Siderail Assembly (2) Left and Right are the same **(Part C)**
Locate the crossmember and siderail assemblies, there will be 2 of each.

The frame will be assembled upside down



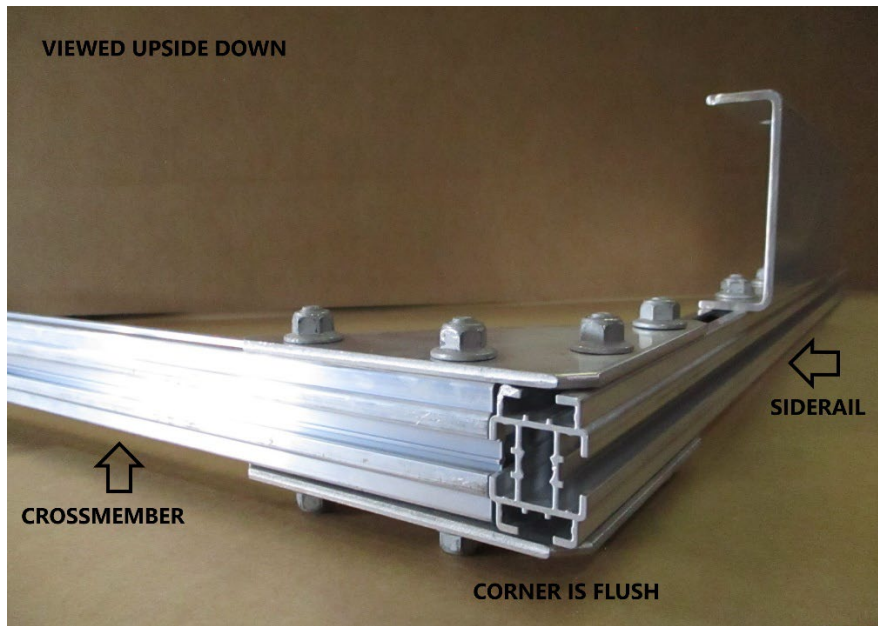
NOTE: Crossmember shown **UPSIDE DOWN**

Before beginning the frame assembly, make sure the angles installed on the crossmembers are facing down, (as shown above).



Loosen the nuts on the L-plates, both top and bottom, and slide them out slightly so the siderail will be able to slide into them and sit next to the crossmember.

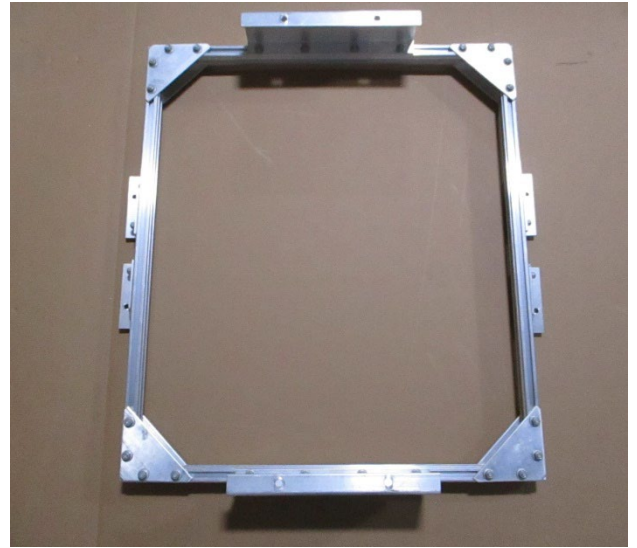
Repeat for the other 3 corners.



Next, slide the siderail, into the L-plates and make sure it is flush with the crossmember, as shown.



Complete one corner at a time starting with the front crossmember. Square that corner, and tighten the nuts on the top and bottom L-plates before moving on to the other side of the same crossmember. Repeat this process with each corner.

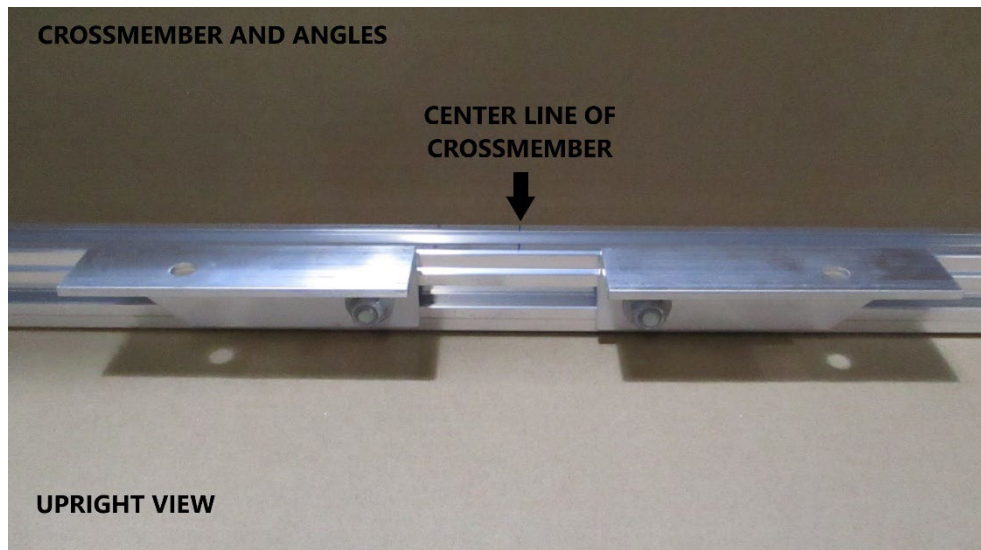


(Upside down view shown)

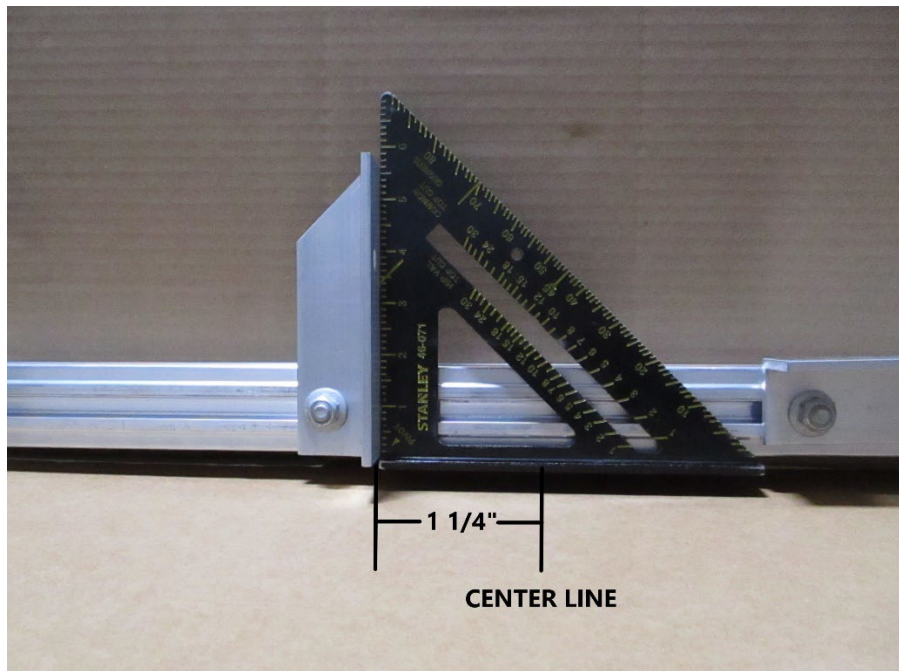
Both siderails attached to the crossmember.

Completed frame assembly.

Once this is finished, it will be installed onto the tongue assembly.

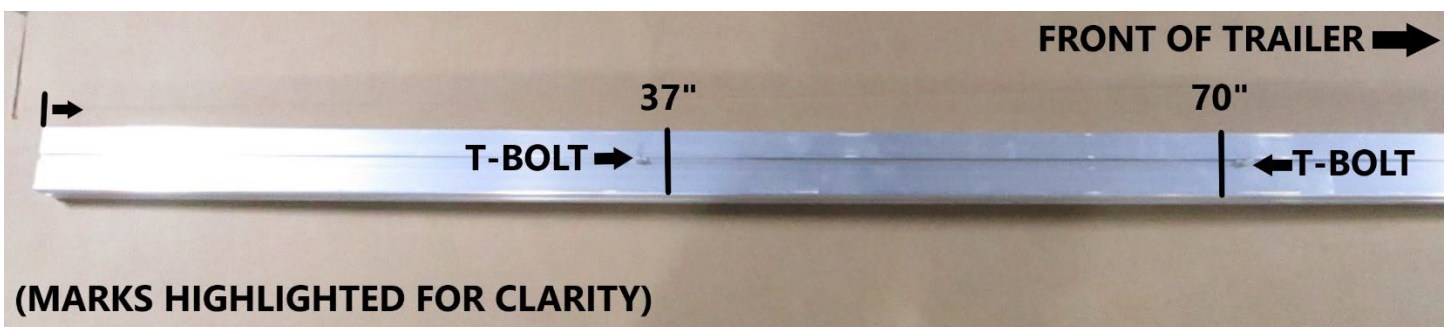


Turn the frame right side up and locate the center line on the top of the crossmember.

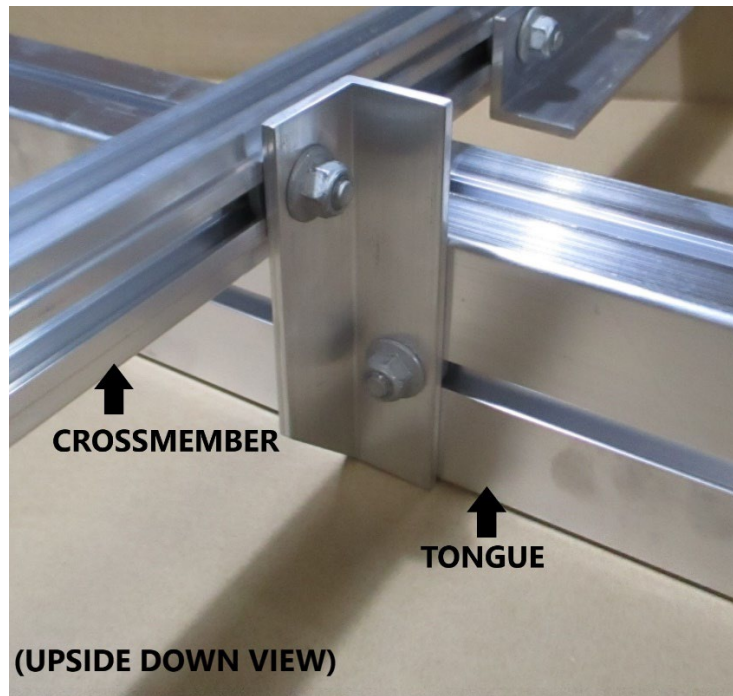


(Upright View)

Loosen the nut on one of the angles and move it 1 1/4" from the center line towards the outside of the frame, then square and tighten. Repeat on the other crossmember. Leave the other angle in the "down" position for ease of assembly on the tongue.

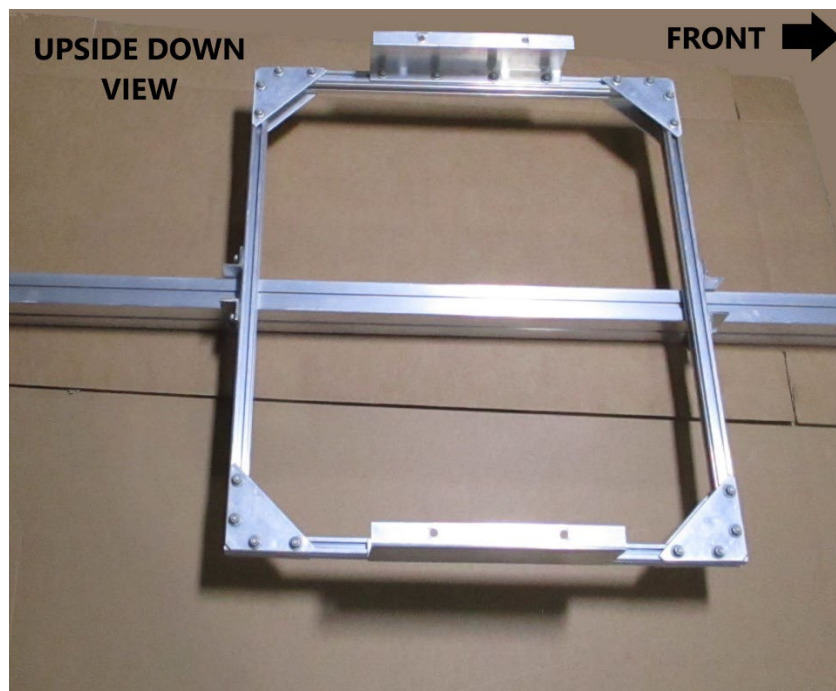


For the rear tongue section, remove 4 T-bolts from the hardware bag. Install one by the mark at 37" and one by the 70" mark. Repeat on the other side. These bolts will be used to mount the frame to the tongue assembly.



(Upside down view shown)

Mount the angles from the previous step on the marks on the tongue, as shown. Repeat for the opposite side of the tongue as well.

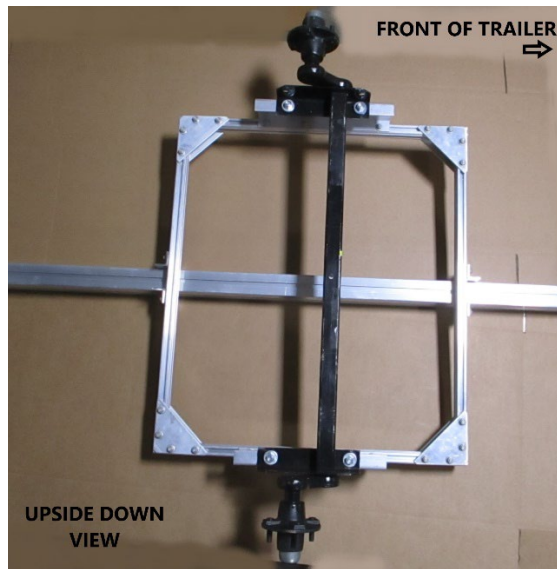


At this point, the trailer should look like this, with the frame mounted and the trailer upside down.

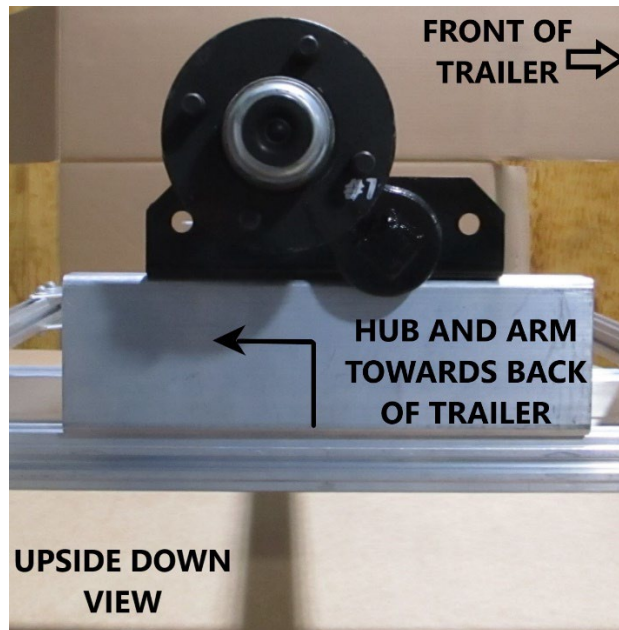
AXLE and FENDER INSTALLATION



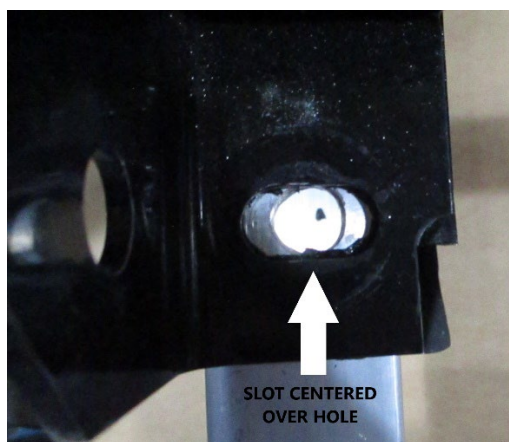
Locate the axle, notice there is tape on brackets. **(Do NOT Remove the tape) (Part A)**



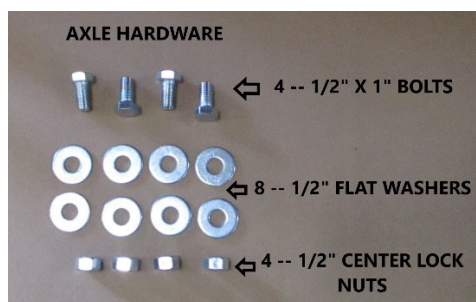
Axle set on frame. Upside down view shown



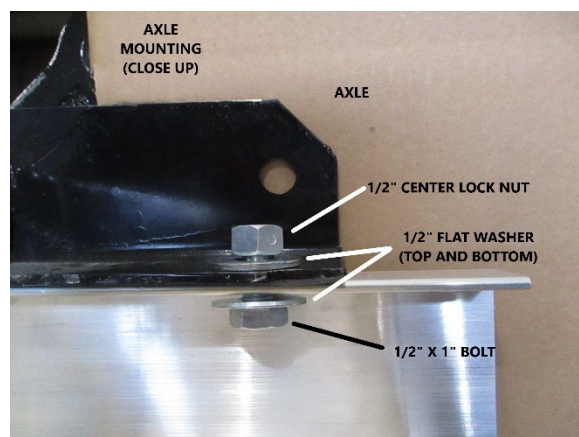
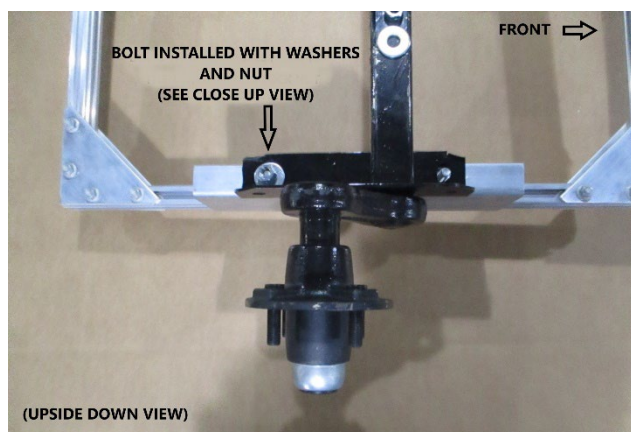
When putting the axle on, make sure that the hub and arm are pointing towards the back of the trailer, as shown in the picture above.



Using a utility knife, remove the tape only from the slots on the axle. Center the slots over the hole on the bracket, repeat for all 4 slots.



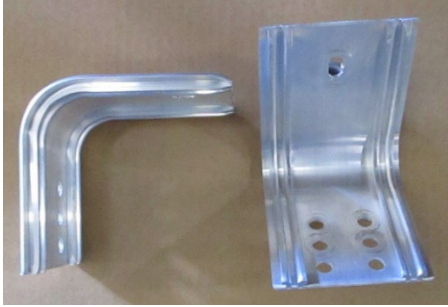
Locate the axle hardware from the hardware bag (**Part F**).



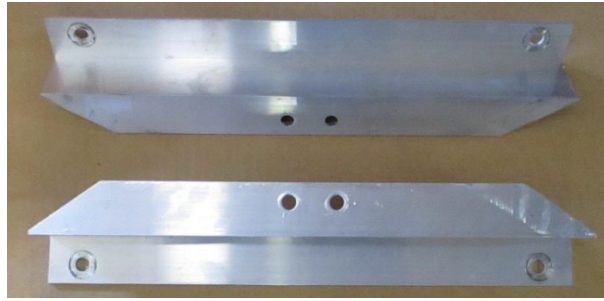
With the axle sitting on the brackets, install the hardware. The bolt goes through from the top of the trailer down with 2 washers and a center lock nut, as shown above. Repeat for the other 3 axle mounting locations.

Be sure the axle is centered on the brackets before tightening. Tighten in an X-pattern.

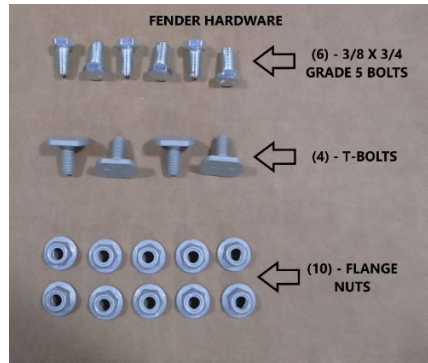
Locate the parts for the fenders:



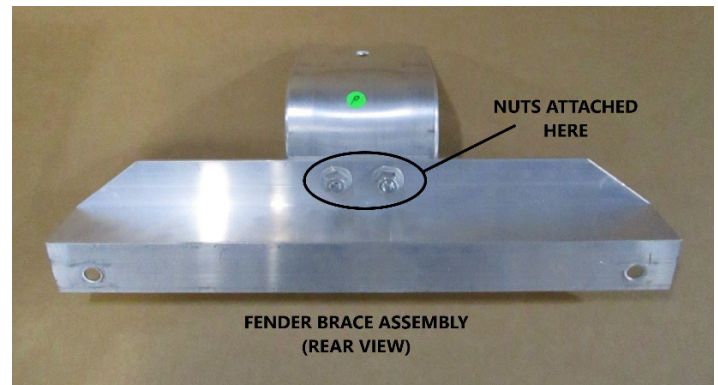
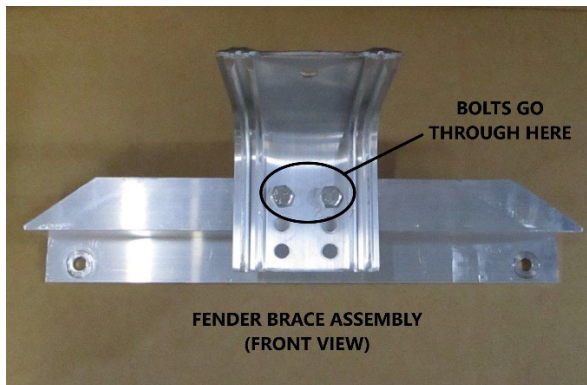
Inner fender braces (2) (**Part I**)



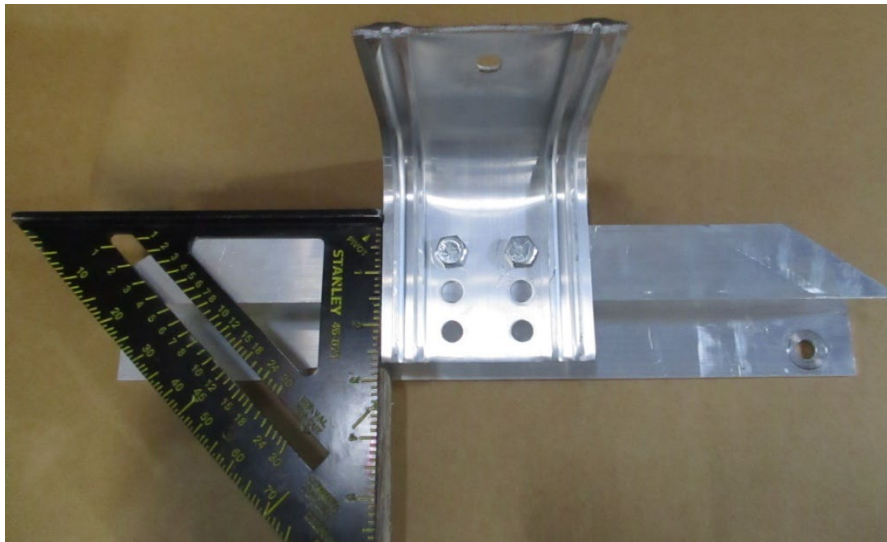
Outer fender braces (2) (**Part H**)



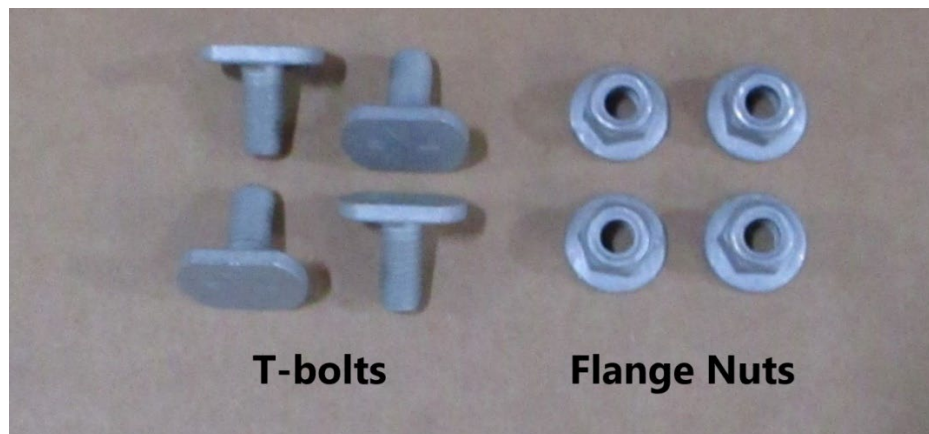
Fender hardware from the hardware bag.



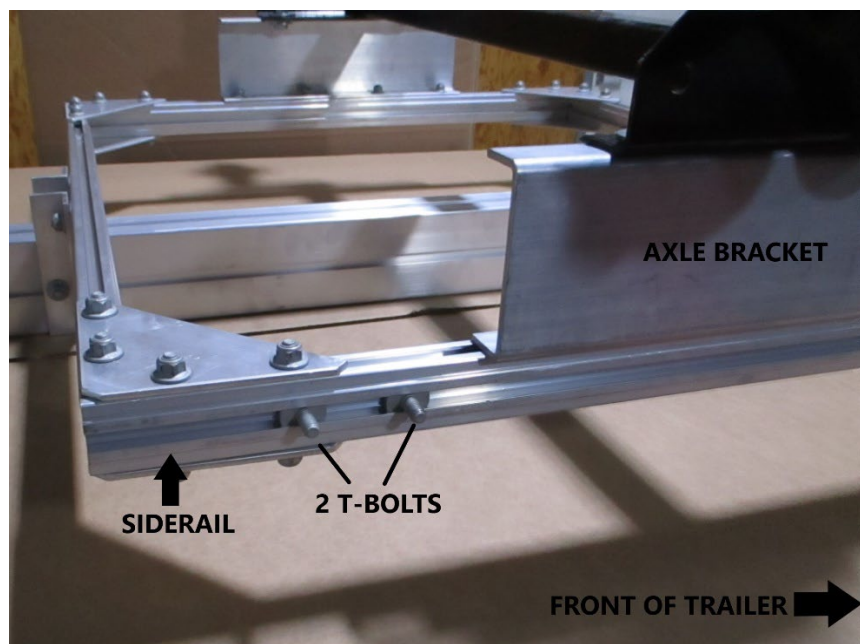
Mount the outer fender brace (**Part H**) to the inner fender brace (**Part I**) using the 3/4" bolts and flange nuts from the hardware bag. Put the bolts through the top holes as shown above.



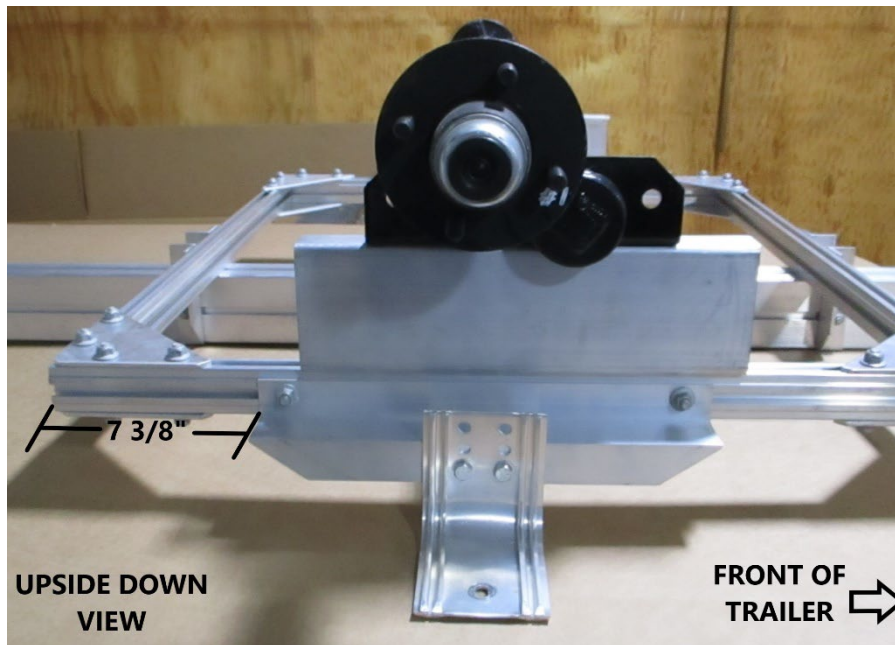
Before installing on the frame, square and tighten the fender braces together.



Locate the 4 T-bolts and flange nuts, from the hardware bag, to install the fender braces onto the siderails.

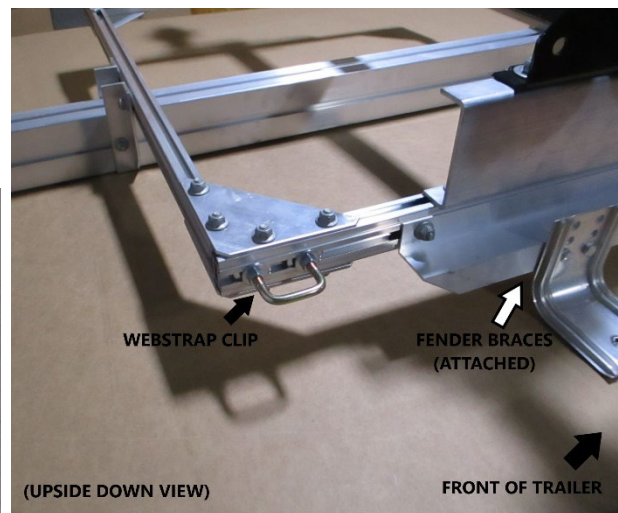


Slide 2 T-bolts into the siderail to attach the fender brace assembly from the previous step.

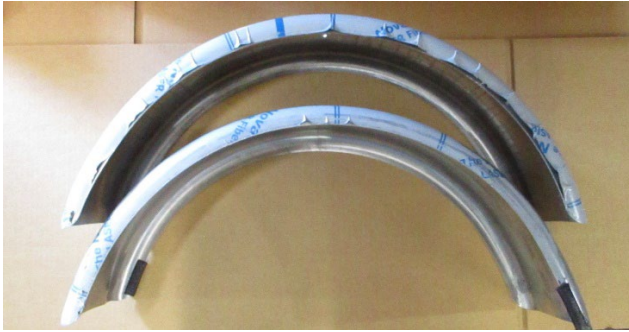


Measure 7 3/8" from the rear of the siderail and mount the fender brace.
Repeat for the other side.

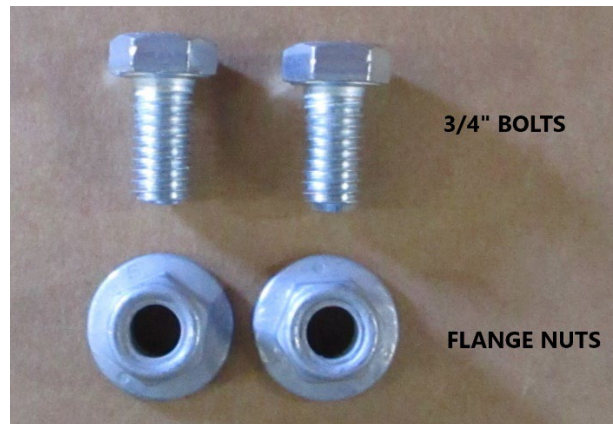
NOTE: The fender braces will be off-center towards the back of the frame, and trailer. This allows the most movement of the tire and axle within the fender.



Locate the two webstrap clips from the hardware bag, and slide one on each siderail behind the fender braces and tighten.



Locate the fenders (**Part G**), and peel the plastic film off before installation.



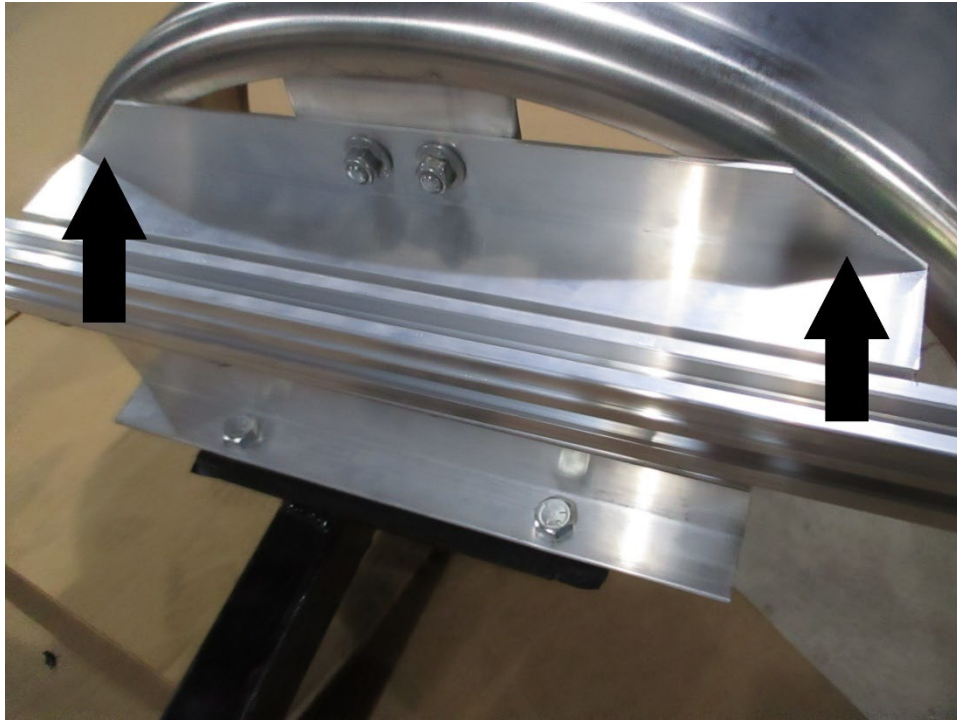
3/4" BOLTS

FLANGE NUTS

Locate (2), 3/4" bolts, and 2 flange nuts from the hardware bag. These will be used to attach the fenders to the braces.

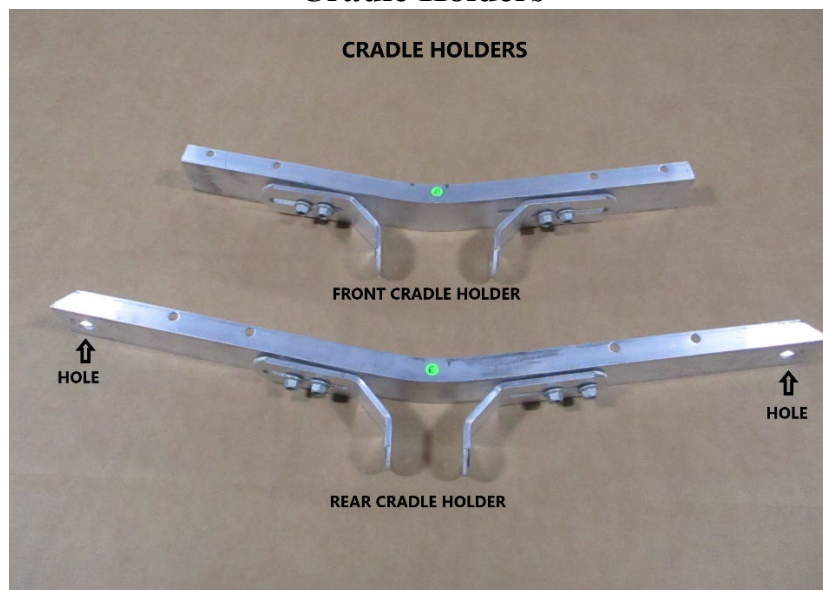


Mount the bolt through the fender and brace as shown.

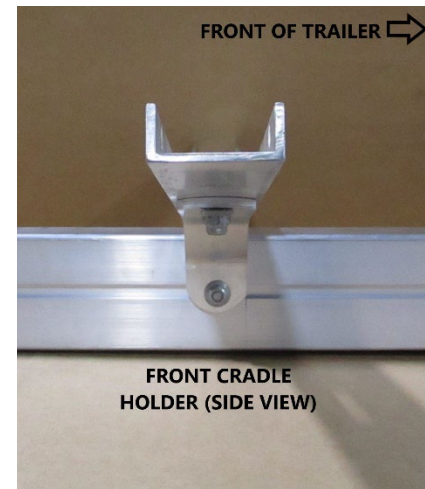
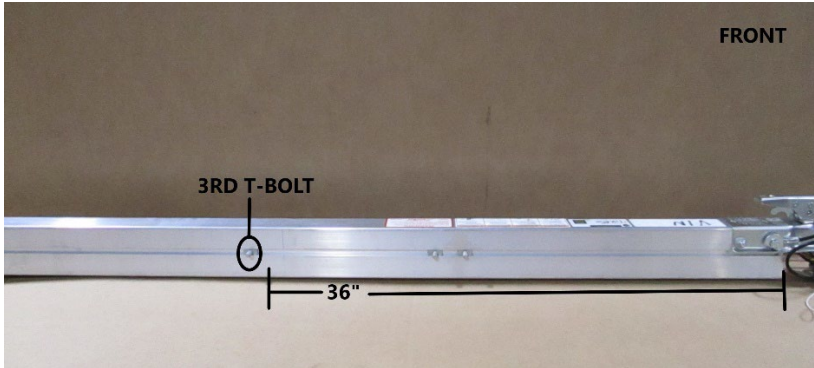


Before tightening, make sure the fender is on the **outside** of outer fender brace. Repeat for the other side.

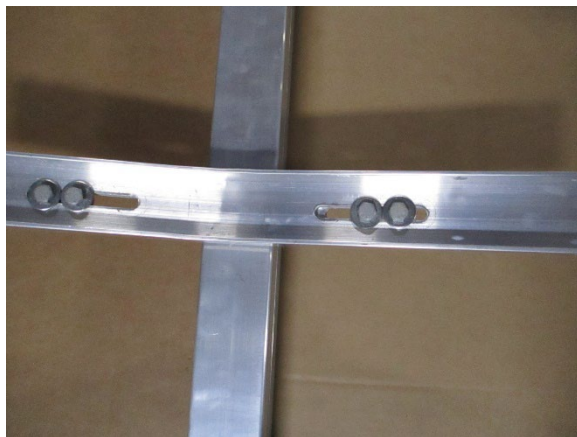
Cradle Holders



Locate the Front Cradle Holder (**Part K**) and Rear Cradle Holder (**Part L**). The front one is shorter. The rear one is longer, and has a hole on each end.



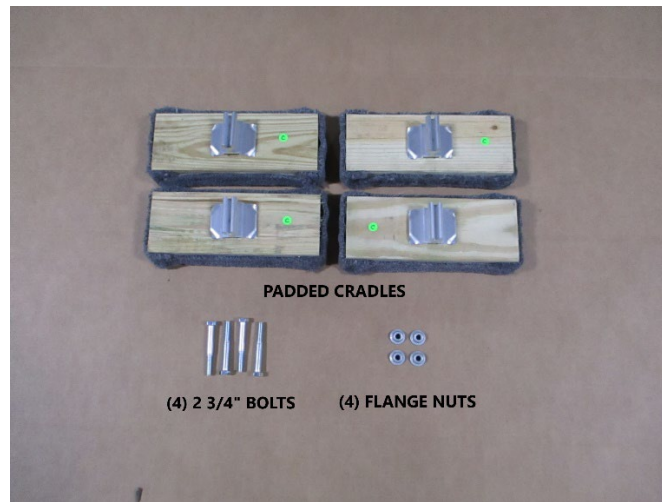
On the front tongue, mark approximately 36" back from the front and install the front cradle holder (**Part K**) on the 3rd T-bolt from the front of the tongue. Tighten the nuts making sure the cradle brackets are perpendicular to the tongue. **NOTE:** The final location of the front cradle holder will be determined when the boat is fitted to the trailer.



On the top of the cradle holder, make sure the slot is lined up with the bracket underneath.



Slide the bolts out to each end of the slot, and tighten them. Repeat for both sides.



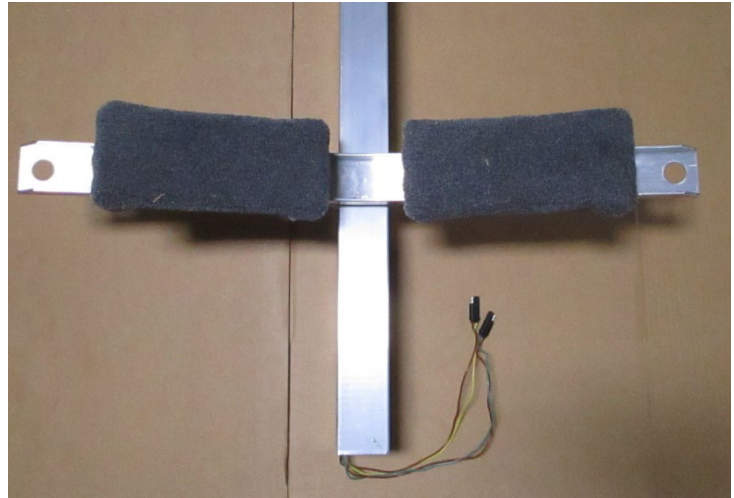
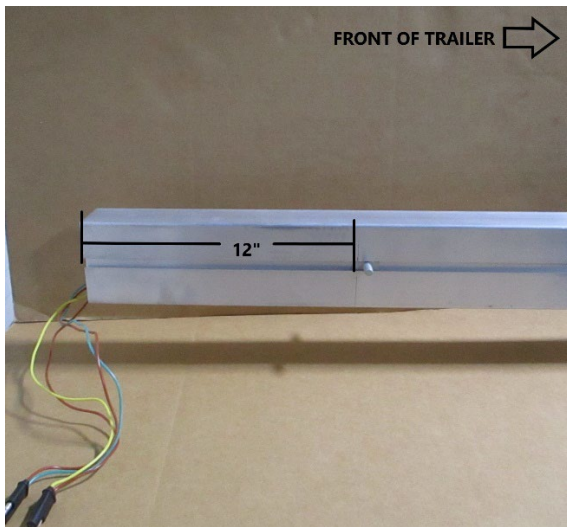
Locate the 4 padded cradles (**Part M**). Also locate the (4) 2 3/4" bolts and (4) flange nuts, from the hardware bag.



Install the padded cradle inside the cradle holder, slide the 2 3/4" bolt through the cradle holder and the pivot plate on the padded cradle, install the nut and tighten. (Shown mounted to the inner position. The final position will be determined when the boat is fitted to the trailer.)



Front padded cradle holder assembly installed. (Top view shown)



For the rear cradle holder, measure 12" from the rear of the trailer. Install a T-bolt, from the hardware bag, on each side of the tongue. Install the rear cradle the same as the front is installed. NOTE: The final position will be determined when the boat is fitted to the trailer.

Rear roll and tail light brackets

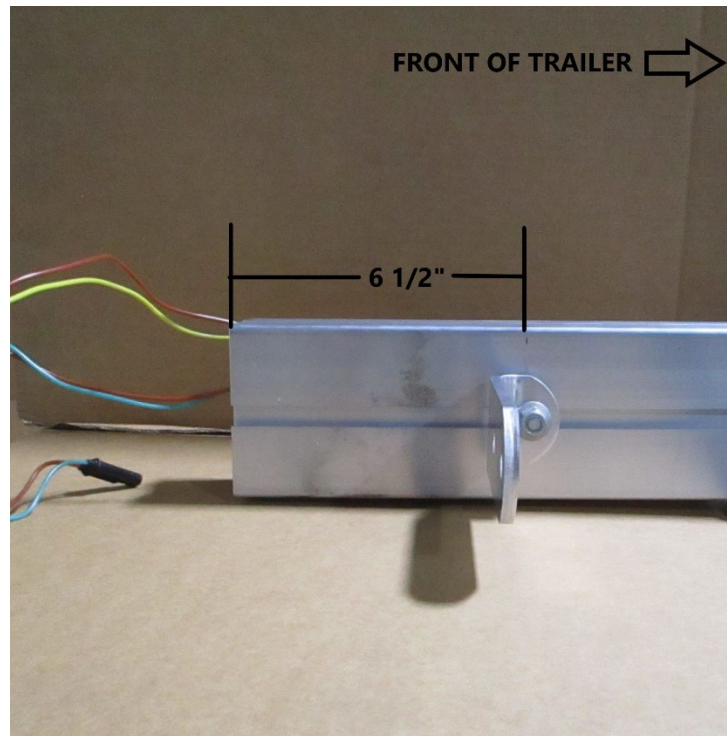


6 inch roll (Part D)

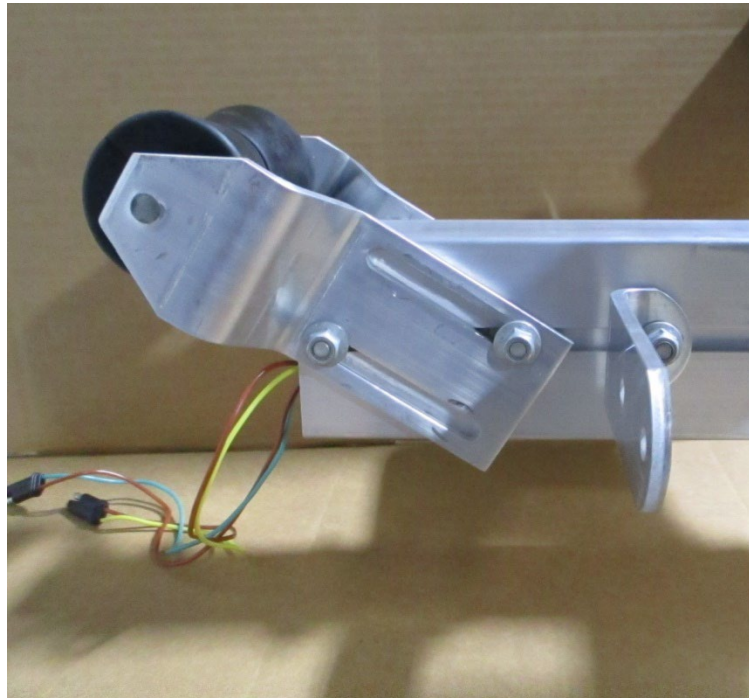
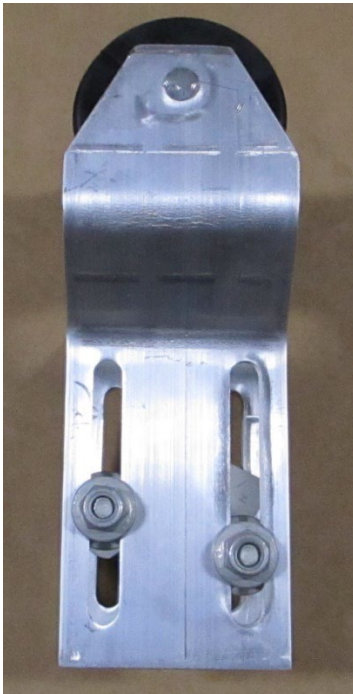


2 Tail light brackets (Part P)

Locate the 6 inch roll **(Part D)** and the 2 tail light brackets **(Part P)**

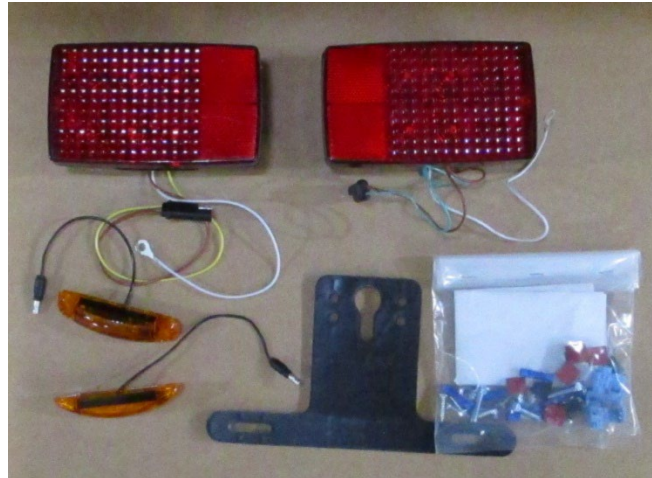


Install a T-bolt 6 1/2" inches from the end and mount a tail light bracket (**Part P**) onto each side.

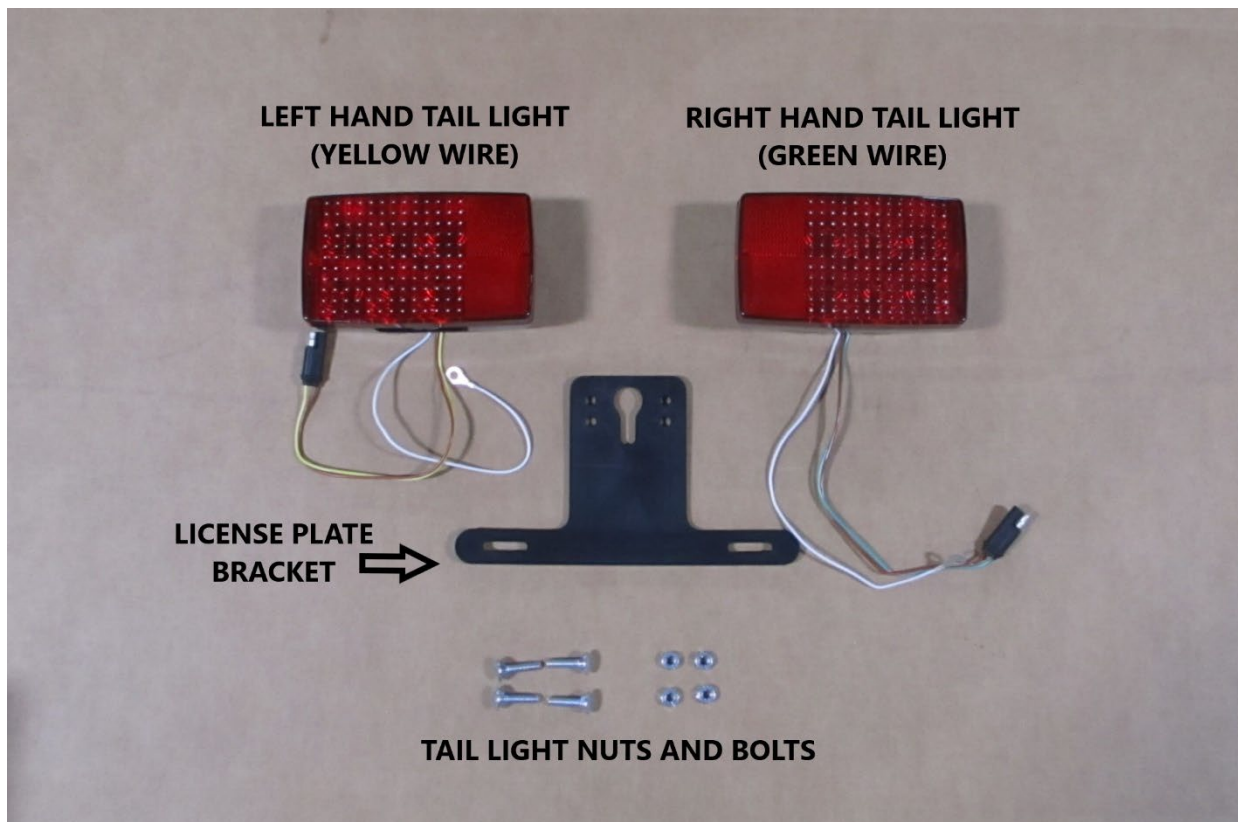


Locate 4 T-bolts and nuts from the hardware bag, install one of them into each slot of the 6 inch roll (**Part D**), as shown above. Then, slide it on the tongue and tighten as shown. NOTE: The final position of this roller is such that it never touches the hull during transport, only during launch and retrieval.

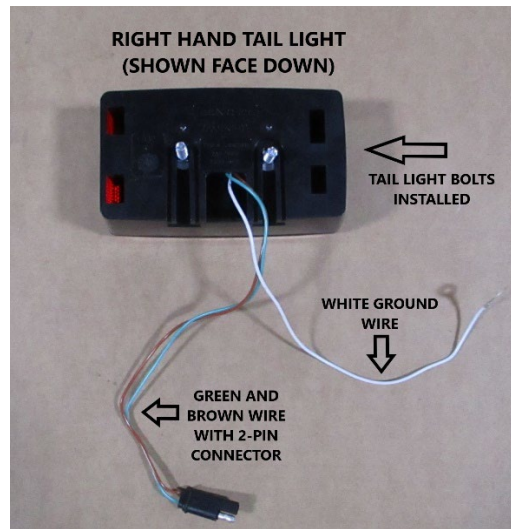
Wiring and lights



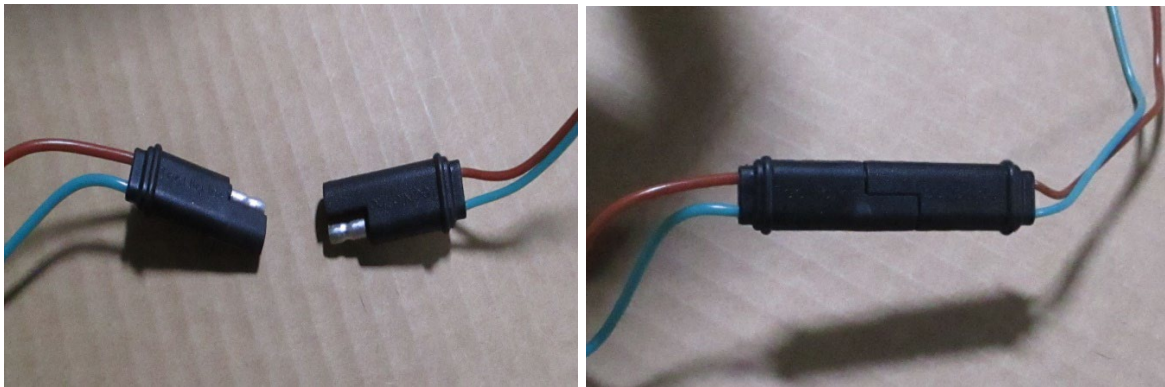
Locate the tail light kit box (**Part J**), two tail lights, two marker lights, a license plate bracket, and a bag of electrical parts. NOTE: This is a universal tail light kit, some parts in the bag may not be used on your trailer.



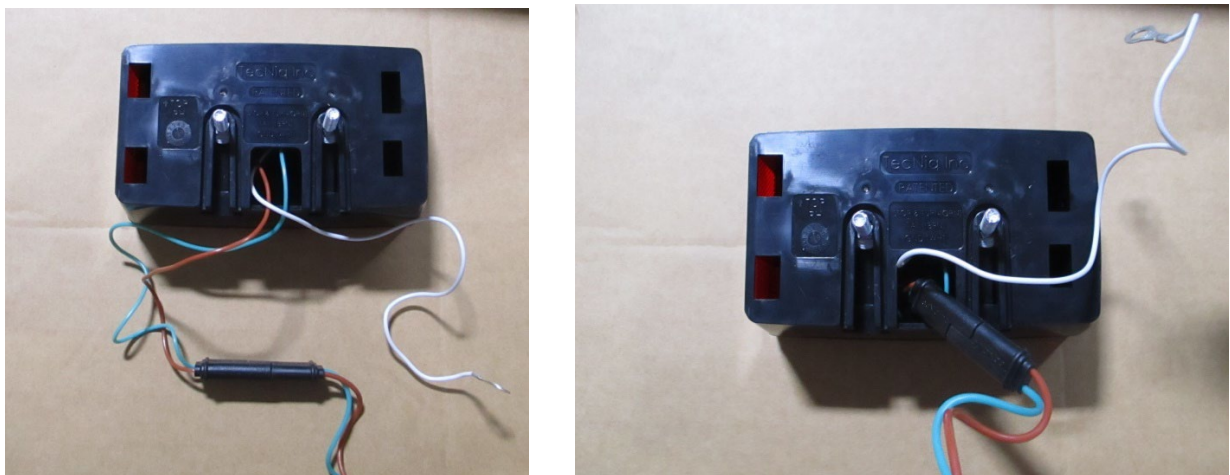
Locate the tail lights, the license plate bracket, and the nuts and bolts from the kit.



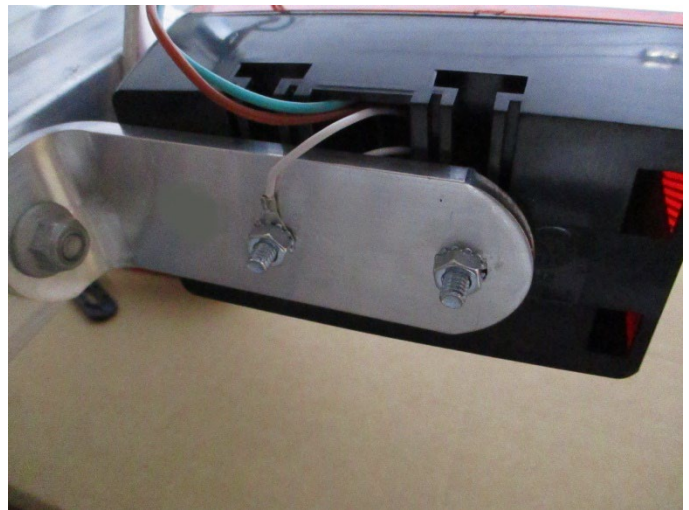
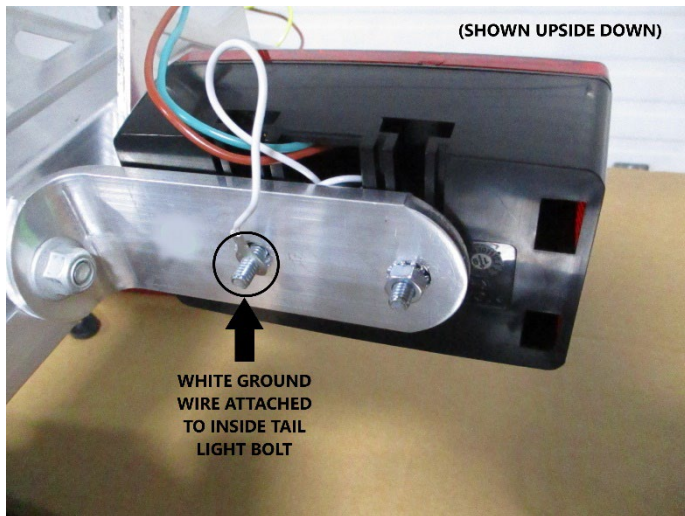
Install the tail light bolts into the slots on the back side of the right hand tail light. Slide them all the way to the top of the slots.



Connect the 2-pin connector for the right hand light with the connector on the wiring harness coming from the rear of the tongue. The green and brown connector from the light will plug into the green and brown connector from the harness.



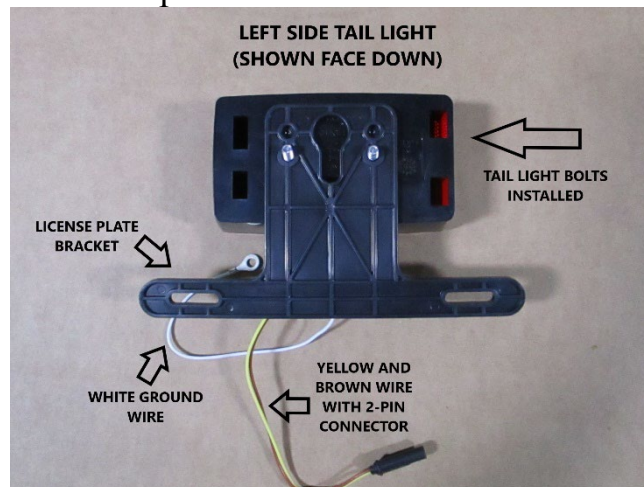
Carefully push the connector and the excess wire into the light before mounting, leave some slack so the wiring harness can go into the tongue once the lights are installed.



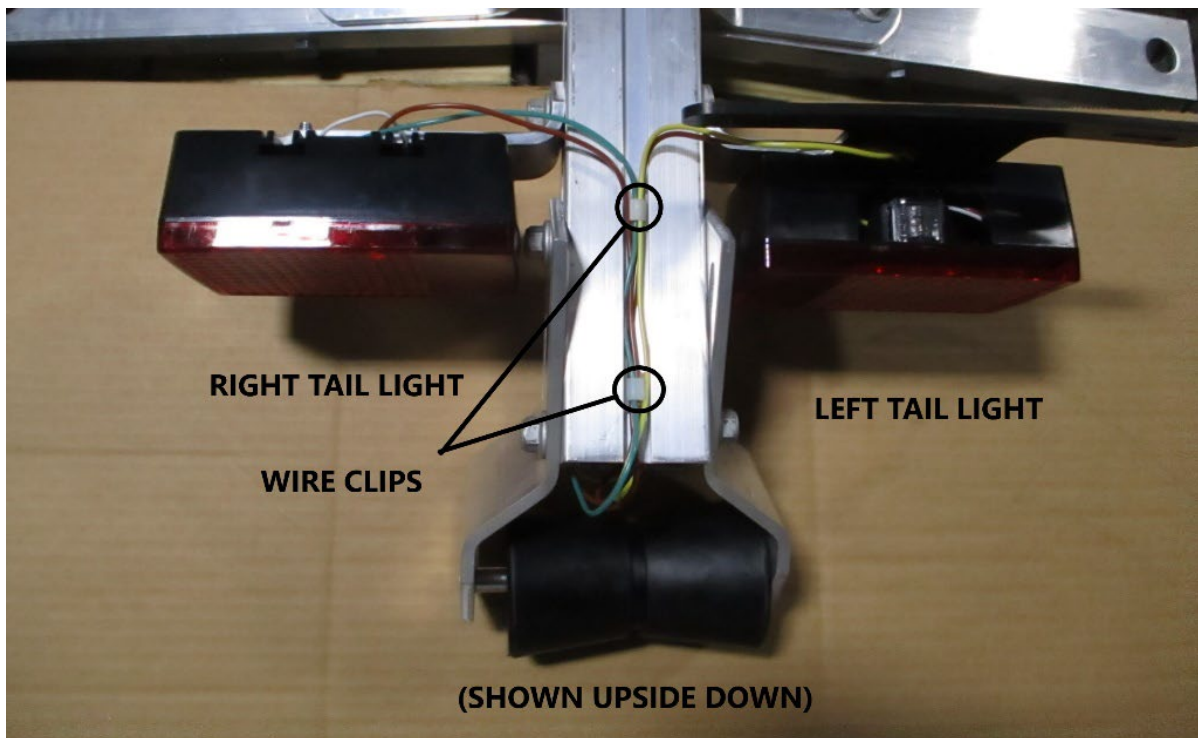
NOTE: Trailer shown upside down

Install the tail light onto the bracket and install the white ground wire on the inside bolt, as shown. Install the nuts and tighten.

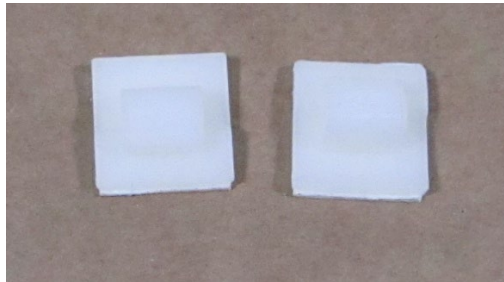
Repeat for the left hand side.



As with the right side, install the white ground wire and tighten the bolts.



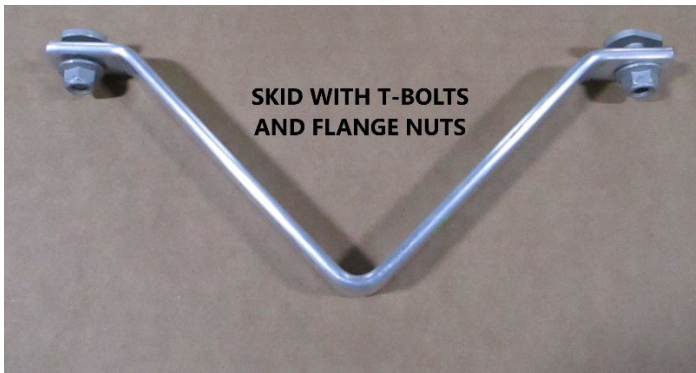
NOTE: Trailer shown upside down



Adhesive wire clips (Colors may vary)

Run the wires from each light to the center of the tongue. Locate 2 wire clips from the tail light kit bag, and install the wires inside the clip. Feed them towards the back of the tongue section. Any extra wire can be tucked inside the tongue.

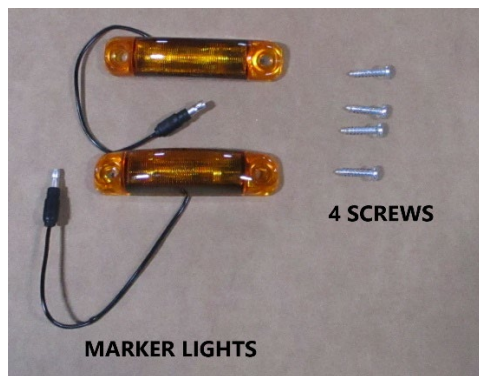
To continue with the lighting, locate the following parts:



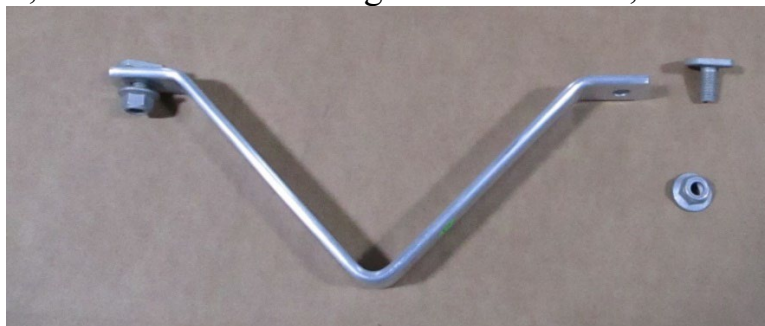
Skid (**Part U**)



Marker light bracket (**Part Q**)



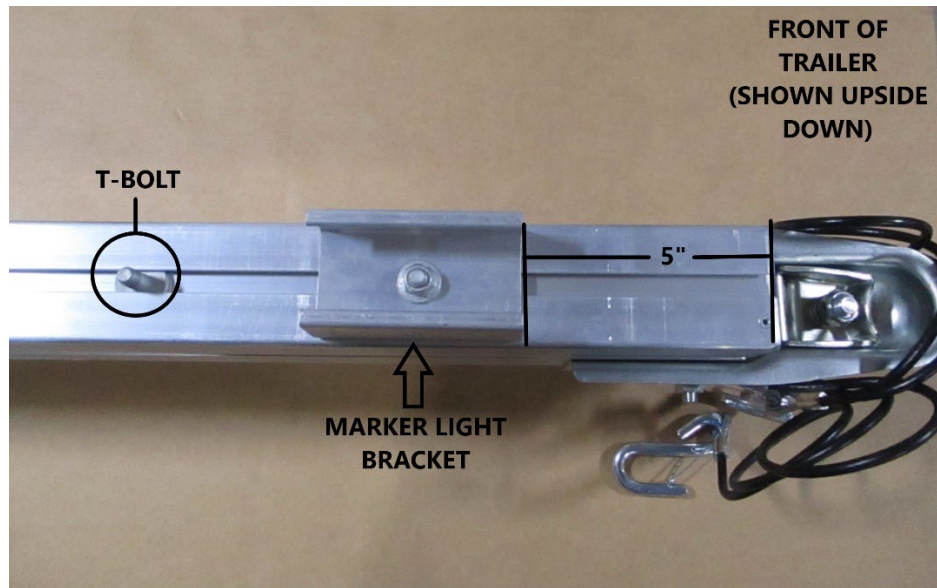
From the tail light kit, locate the 2 marker lights and 4 screws, from the electrical parts bag.



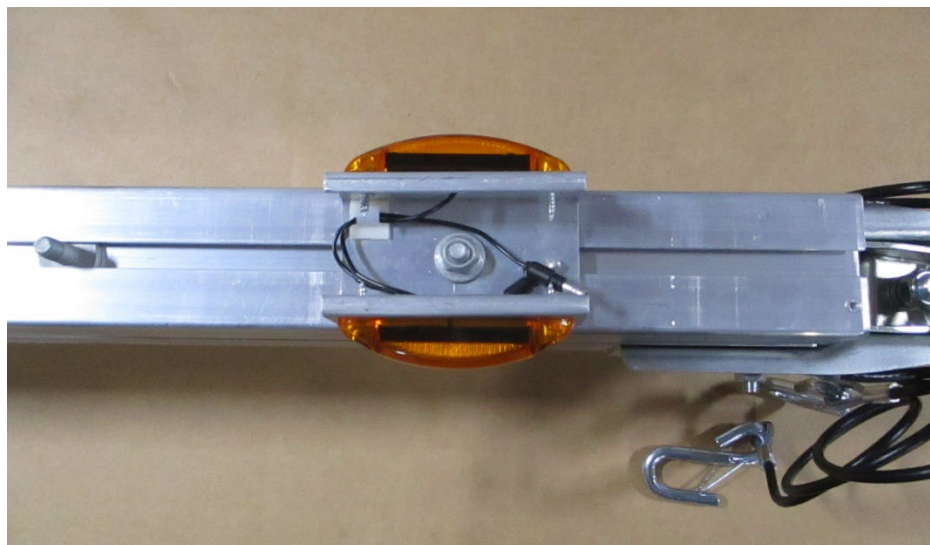
Remove one T-bolt and nut from the skid.



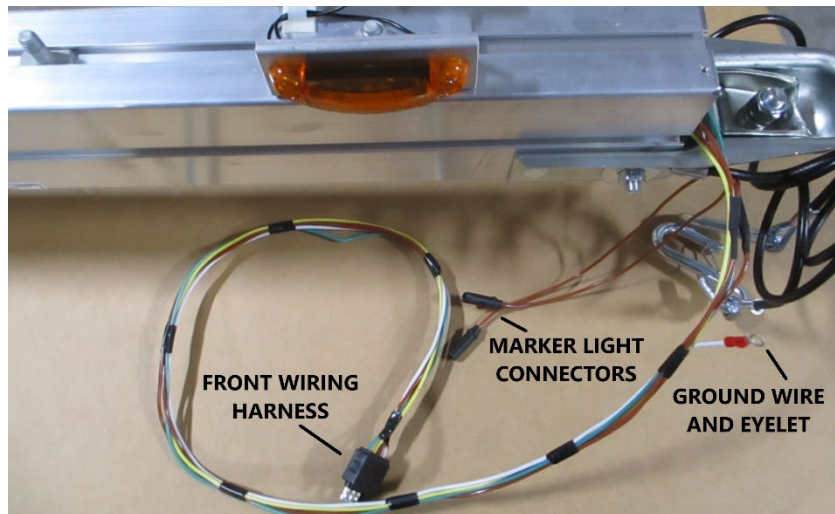
Slide the T-bolt removed from the skid into the slot on the underside of the tongue.



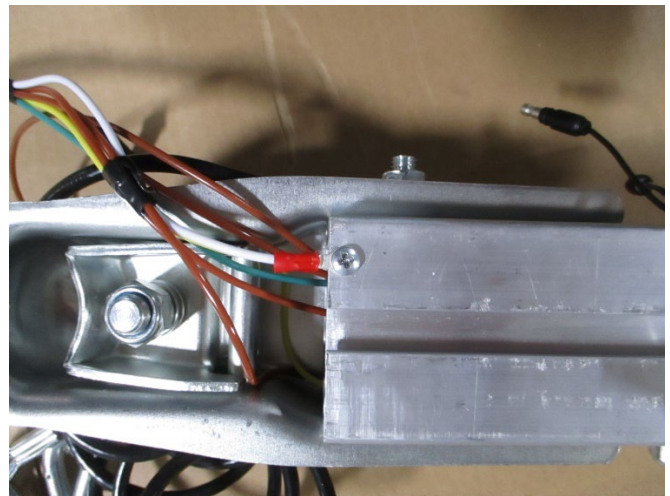
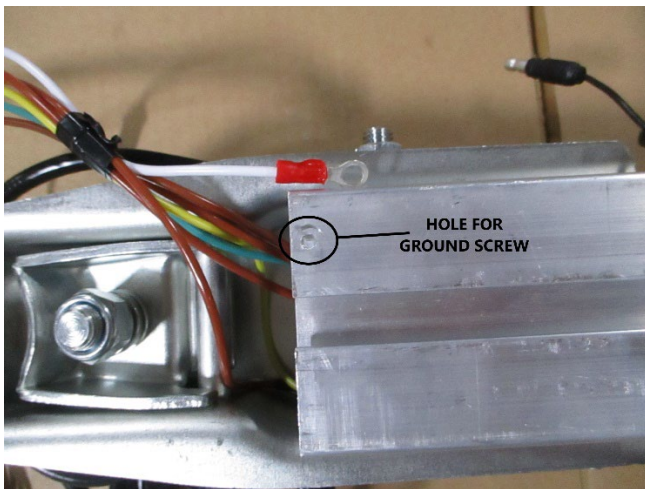
Mark 5" back from the front of the tongue, and install the marker light bracket. **NOTE:** Make sure the T-bolt installed from the previous step is toward the back of the trailer, as shown above.



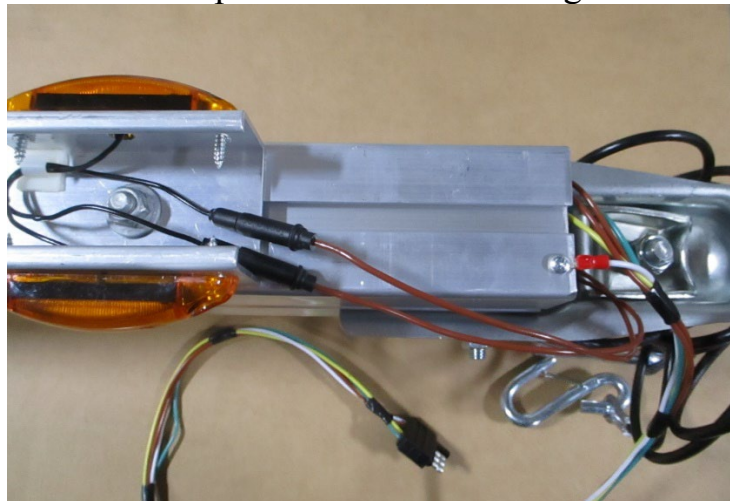
(Underside view of marker lights installed)
Install the marker light with the screws from the electrical parts bag.



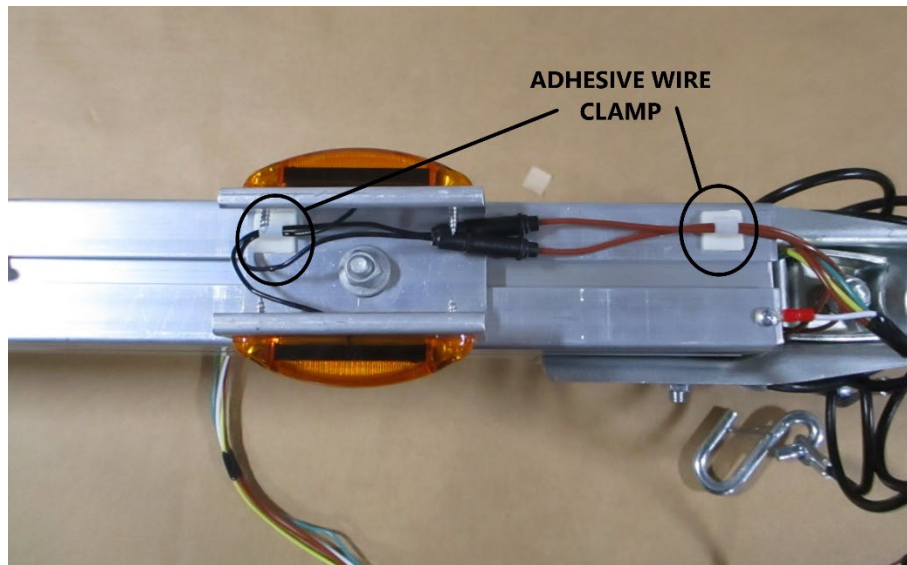
Tape the front wiring harness together from the 4-pin connector on the end along the white ground wire. Space the tape about every 6-8" along the harness. Do not tape the wires for the marker light connectors in with the harness.



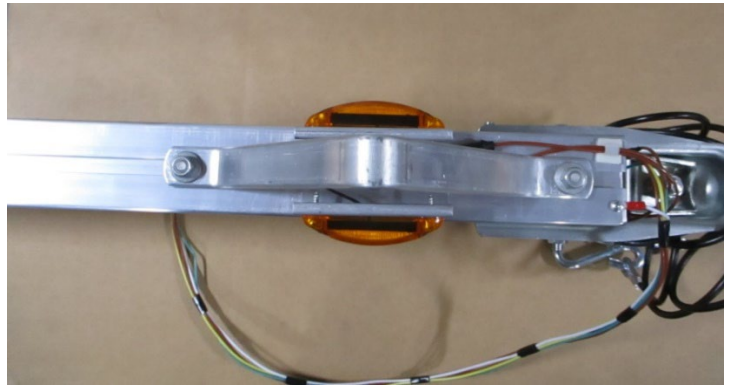
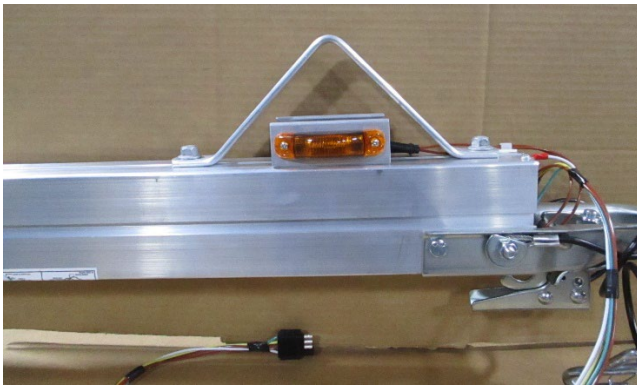
Use one of the remaining screws in the electrical parts bag and install it through the eyelet on the white wire of the harness into the pre-drilled hole for the ground on the tongue.



Connect the 1-pin connectors from the marker lights into the 1-pin connectors from the wiring harness.



Locate 2 more adhesive wire clamps from the electrical parts bag and install as shown above. **Do not** put them in the groove on the tongue.

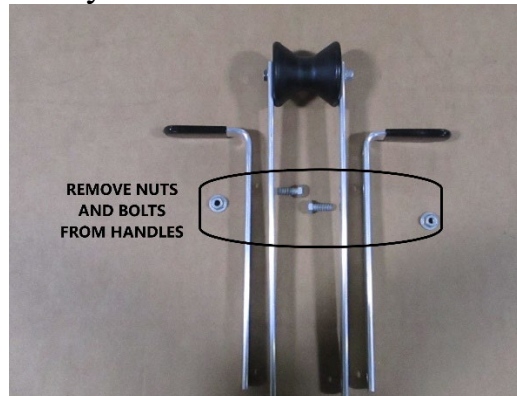


Next, mount the skid onto the tongue. Use the T-bolt installed from the previous step, and the one remaining on the skid. Center it over the marker light bracket, being careful to avoid the wires, and tighten.

BOW STAND



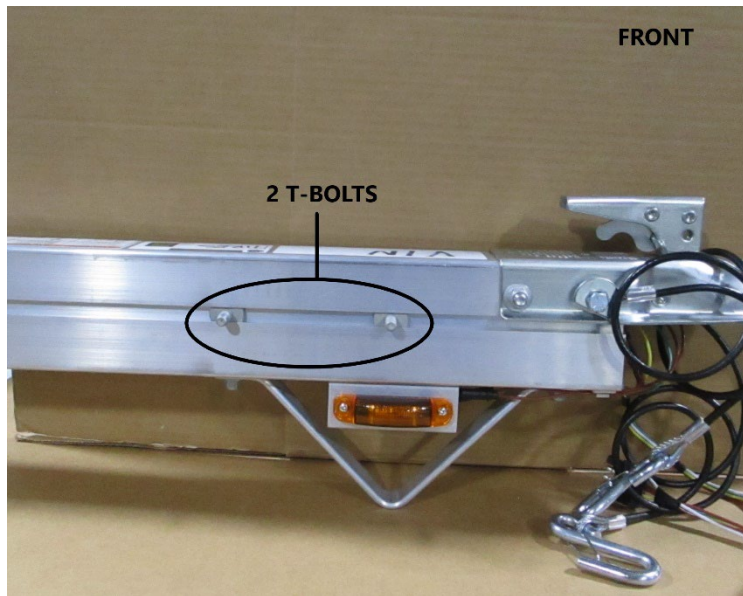
Locate the bow stand (**Part V**) NOTE: The bow stand handles are located on the outside of the roll for shipping purposes only. They will be removed and installed on the inside.



Remove the nuts and bolts, and install the handles on the inside of the bow stand.



It should now look like this

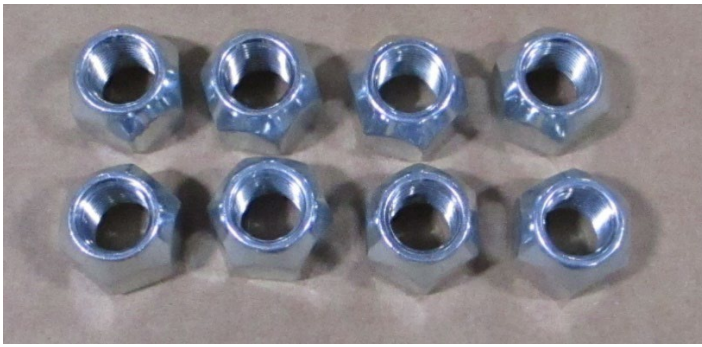


Slide the 2 remaining nuts towards the coupler on both sides of the front tongue section.



Install the bow stand with the roll facing the rear of the trailer and the handles facing the front, as shown. Re-install the nuts and tighten. The final location of the bow stand will be determined when the boat is fitted to the trailer.

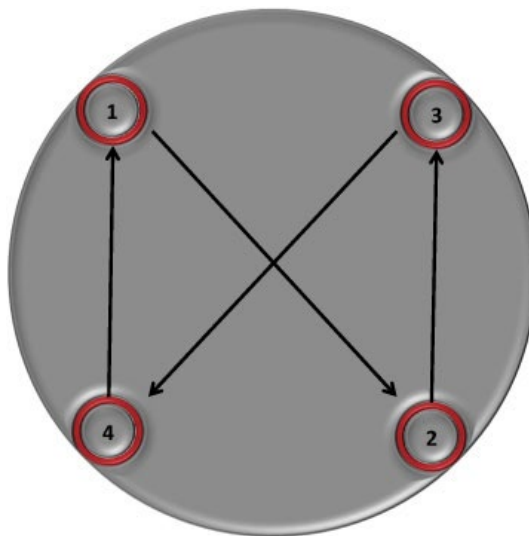
Wheels



Locate the tires and wheels (**Part Y**), and the 8 lug nuts from the hardware bag.



Install the tires and wheels with the valve stems facing out. Install the lug nuts with the tapered side toward the wheel.

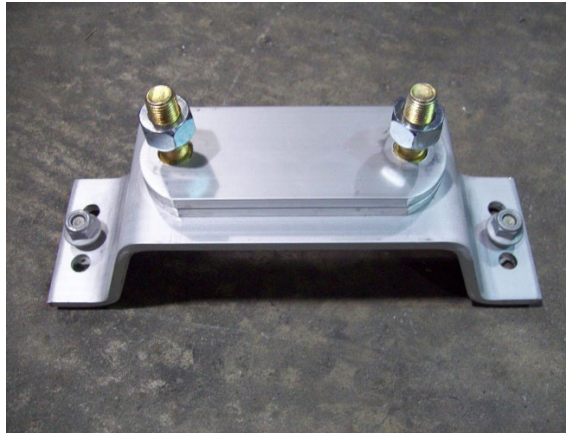


Tighten to 80 foot pounds in a crossing pattern, as shown. Re-tighten after 25 miles.

Finished Trailer



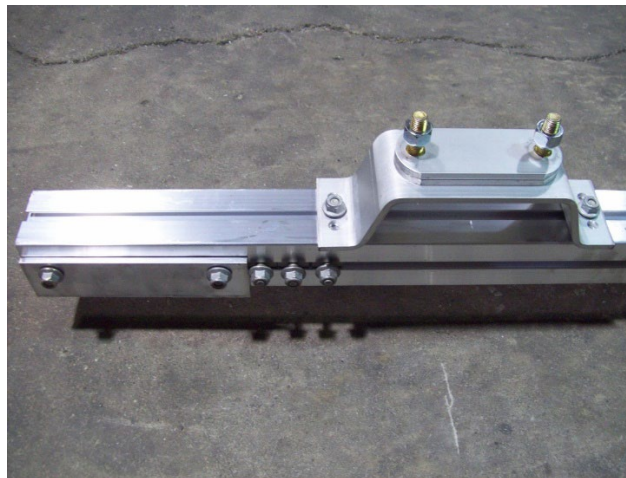
OPTIONAL STEP FOR SPARE TIRE CARRIER



Spare Tire Carrier for SUT Trailers



Loosen the T-bolts and nuts on the spare tire carrier. Insert into the underside of the front tongue section, at the rear. Once the T-bolts are in the channel, slide it toward the coupler.



FRONT OF TRAILER →

Position the carrier about 18" away from the rear of the front tongue section, then tighten nuts.