Assembly of the RR5062 5.1M Sawmill Trailer

Your trailer will come in two separate boxes This manual outlines a trailer that fits a 29" mill, but the steps are the same for all 5.1M trailers Open up both boxes, unwrap all items and lay out for easy identification	 

The first photo shows all the pieces that were in the Cross-bar kit

These pieces consist of:
6-cross pieces
1-axle cross piece
1-cross piece with 2 holes for draw bar
1-Rear end plate for trailer
1-Lock bar with 4 bolts, washers and nuts

The second photo shows the contents of the larger box

This box will contain the wheels, axles, frame pieces, fenders, jacks, brackets and light wiring kit

The third photo shows the hardware pieces that were included with the larger box

One bag has m10x30 bolts (slightly longer)

One bag has m10x25 bolts (slightly Shorter)

A large bag of nuts

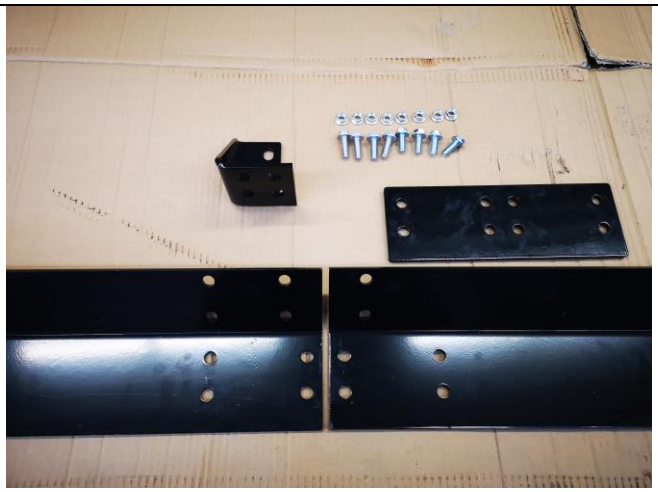
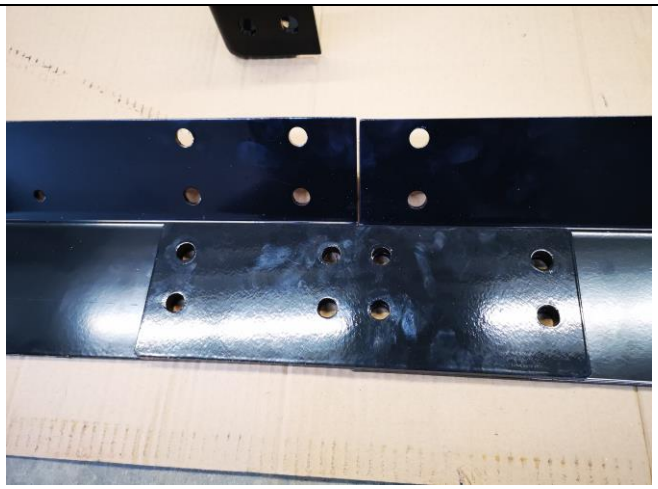
A bag of wiring harness brackets

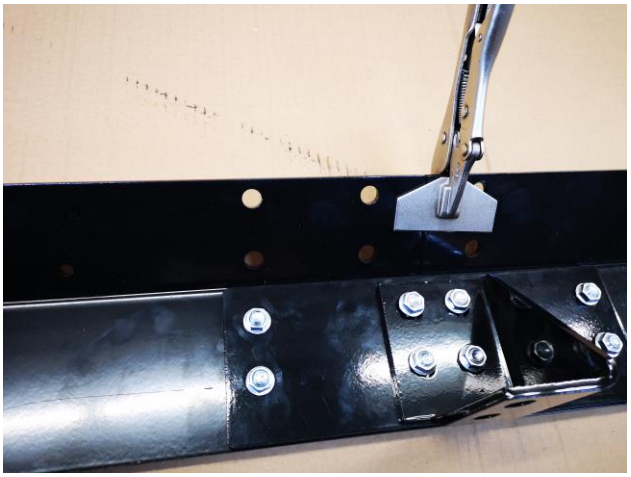
A small bag of Zip-ties for securing wiring harness-as well as hardware for mounting the lights onto the trailer

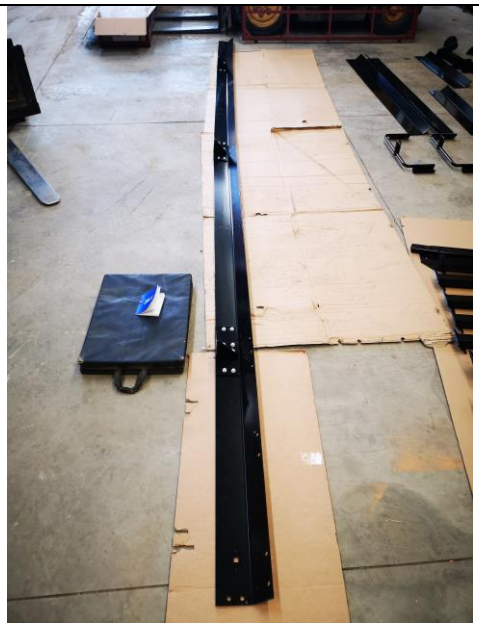
A bag of large diameter bolts for mounting the axles

A bag of long bolts and two small black pieces for mounting the draw bar

First step of assembly Take a short piece of frame as shown in picture The left end of this frame piece will end up being the front of the trailer	
There must be a small square hole on the left end of the frame piece for mounting a marker light later	
After laying the short frame piece on the ground, grab a long piece of frame and lay it next to the shorter piece We will be joining these together in the next step	

The two frame pieces are butted up to one another You will need a flat bracket and an L-bracket For hardware you will need: 4 M10x30 bolts for the center of the plate 4 M10x25 bolts for the outside holes	
The flat bracket sits on top of the frame pieces as shown in the photo	
Now, the L-bracket sits on top of the flat bracket as show in the photo The L bracket must be installed with the four holes sitting against the flat bracket	

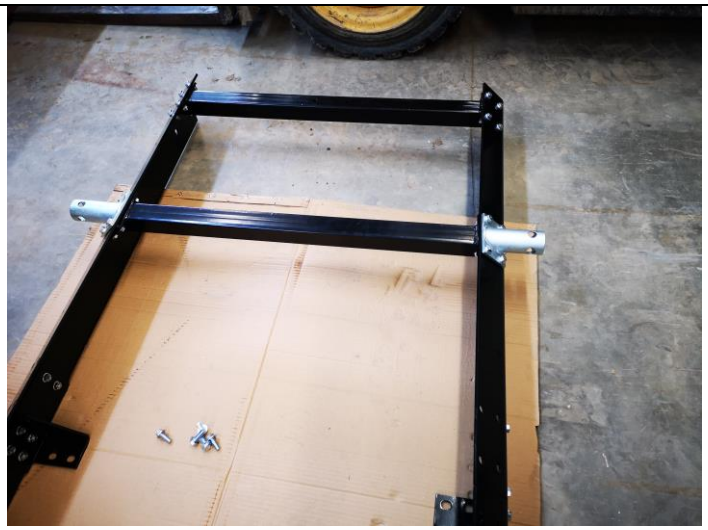
The four M10x30 bolts will be used to mount the brackets to the frame piece-as shown in the photo The four M10x25 bolts will be installed on the outside of the flat plate	
Once all the bolts are installed loosely, Use a tool to line up the ends Once the ends are lined up, tighten the outside four bolts Do not tighten the inner four bolts at this time	
The first connection has now been made Take another long frame piece and set it up against the existing frame We will be joining these pieces together in the exact same way as the first connection	

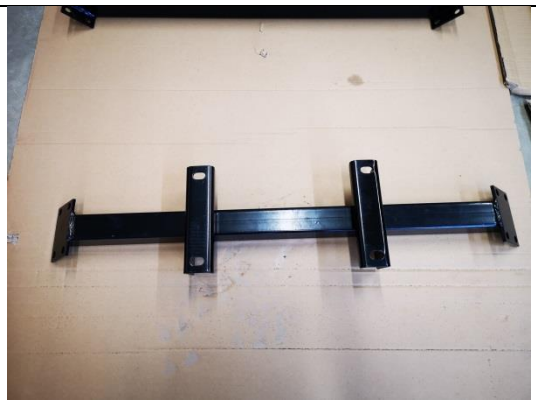
This photo shows the two connections that have been made up to this point Again, make sure to tighten the outside four bolts on this connection and to leave the inside four bolts loose After this 2nd connection has been made, grab another short frame piece and install it onto he existing frame in the same manner Make sure the small frame piece ends up having the square hole at the back end	
3 connections have been made in this photo- securing the four frame pieces that make up this side of the trailer	
A photo showing the end piece with the square hole	

The one side of the trailer frame is now assembled Repeat the process for the other side Setting it up as shown in the photo helps as the other side is just a mirror image of the first side we completed	
This photo shows both sides of the trailer being complete Again, make sure your small frame pieces have the square holes on the ends	

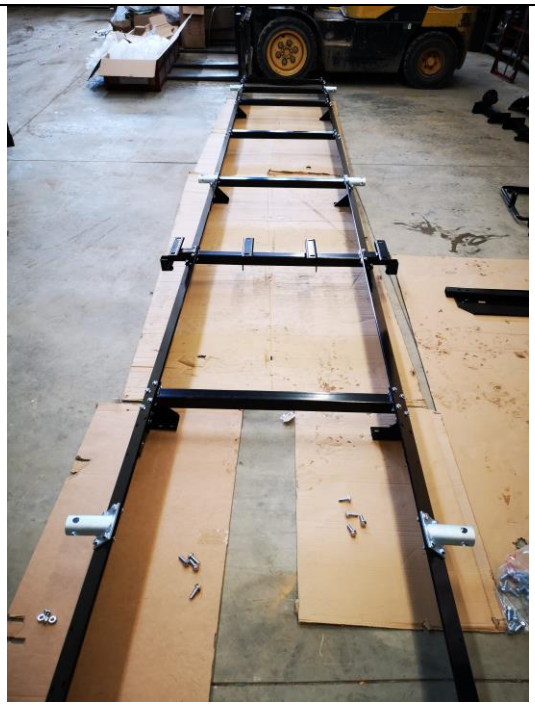
The easiest way to complete the next steps is to flip the frame pieces over and swap them side to side Should look like this after	
You will be joining the frame pieces together in the next steps Grab the cross piece with the two holes drilled in the center Take eight M10x25 bolts and eight nuts Head to the front of the trailer, that's where this cross piece will be installed	

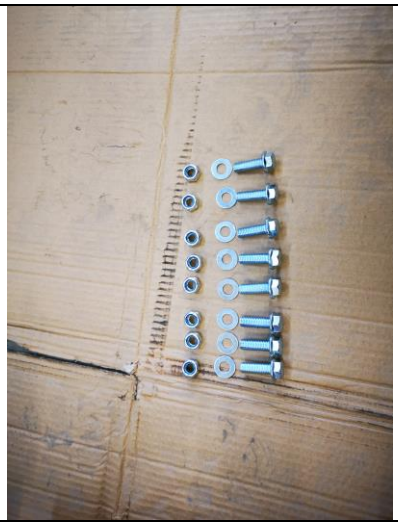
Install the cross piece to the frame with eight M10x25 bolts Leave loose for now	
You will take a regular cross piece next Eight M10x30 bolts and nuts	
You will also need 2 jack brackets	

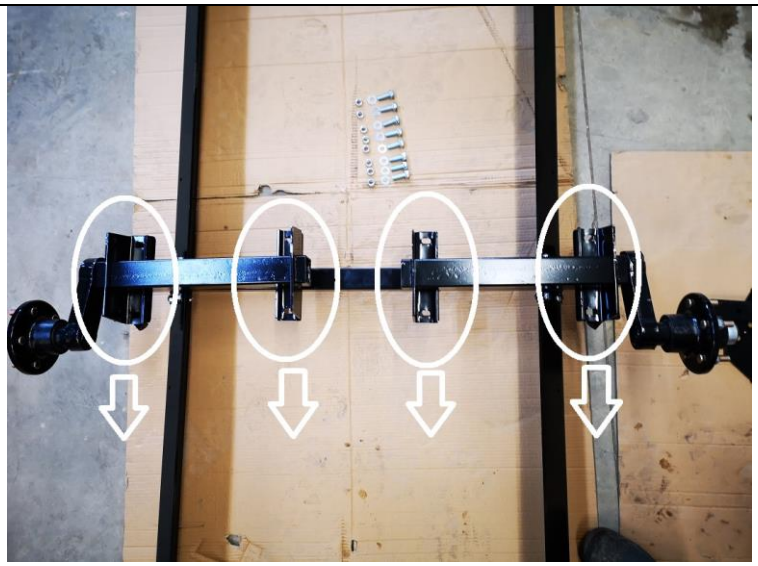
Install the 2nd cross piece with the Jack brackets on the outside	
Here is a closer look	
Find another regular cross piece Grab 8 M10x25 bolts and nuts Install the 3rd cross piece	

Grab another cross piece and eight more M10x25 bolts and nuts Install into the 4th position as shown in the photo	
Grab a 5th cross piece, 2 jack brackets and 8 M10x30 bolts and nuts Install into the 5th position The 5th position will also be the middle point of the trailer	
The next (6th) cross piece will be the axle-cross piece	

You will also need the fender mounting brackets (2) Eight M10x30 bolts and nuts will be used the mount the axle cross piece and the fender brackets together	
This photo shows the axle cross piece and the fender brackets installed Take special care to ensure the square holes on the fender mounting brackets are facing towards the rear of the trailer as shown in the photo	

You will need to grab another cross piece and eight M10x25 bolts and nuts Mount in the 7th position as shown in the photo	
Next you will need the last two jack brackets as well as eight M10x25 bolts and nuts Mount on the frame rail as shown in the photo No cross piece will be mounted here	

The last cross piece will be mounted at the end of the trailer as circled in the photo, using eight M10x25 bolts and nuts	
The next pieces to be installed are the axles	
You will need the large diameter bolts out of one of the smaller hardware bags The bolts, washers and ny-lock nuts are all that is required for this install- the kit does provide extra washers, but they aren't necessary	

The axles sit on the axle cross pieces and on the fender brackets Take care to ensure the hubs are facing toward the rear of the trailer Installed the axles loosely with the hardware Before tightening-make sure the axles are "pushed" towards the rear-in the direction the arrows show The mounting holes are slotted and we want the axles to be in the rear most position What this does is it ensures your axles are mounted evenly and straight	
Next you will be installing the wheels and tires Make sure to install with the valve stems facing out Snug down wheel nuts for now- you will torque them once the trailer is flipped over	

Flip the trailer over on its wheels Then, grab all 6 jacks and head over to the trailer	
Here is the trailer with the front jacks down and the other four jacks in the travel position	

Next, you will be assembling the fenders and then mounting them to the trailer The two fender pieces are bolts together using four M10x25 bolts and nuts	
Showing the fender installed into the fender bracket You can see the bolt for securing the fender to the bracket is circled in white	

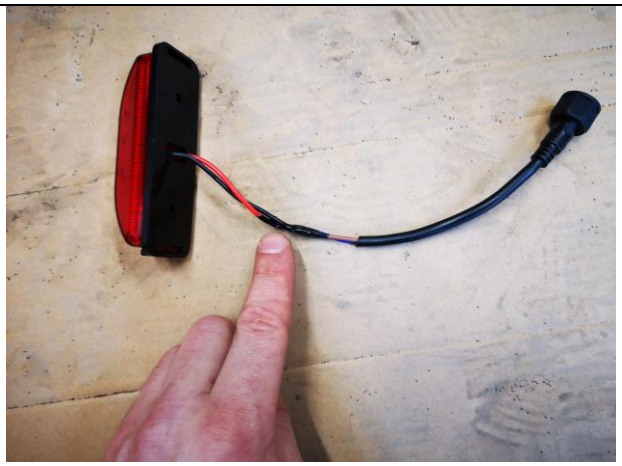
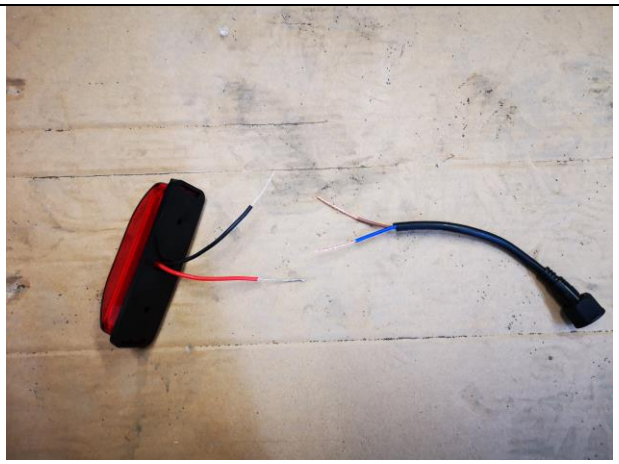
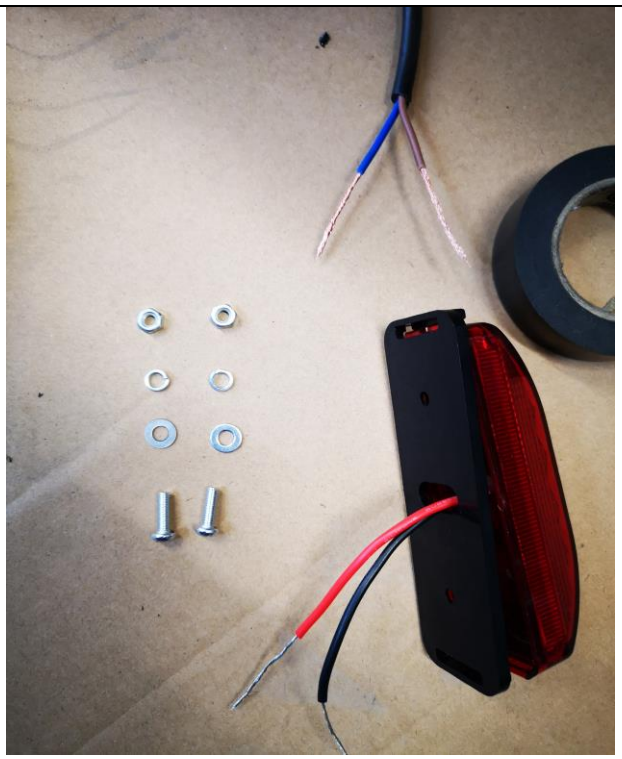
Now the fenders are installed, you will be installing the remainder of the L brackets Grab four of the smaller L brackets You will also need eight M10x25 bolts and nuts These brackets will be using up the last of the M10x25 bolts	
These L brackets install at the front and rear of the trailer as shown in the photo Just leave these L brackets loose for now	
Next you will be installing the remainder of the large L brackets All of these brackets will be installed with the M10x30 bolts and nuts	

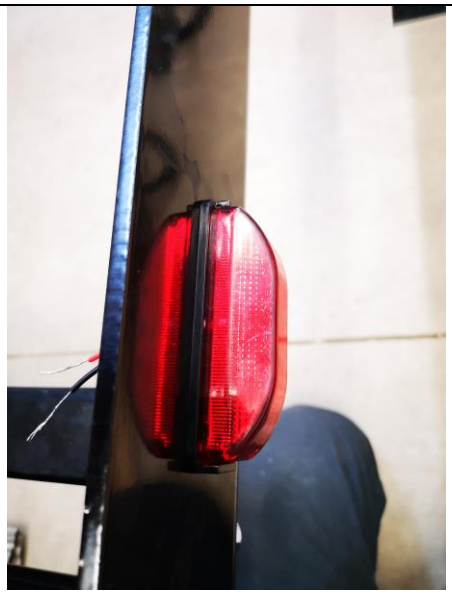
The first two large L brackets will be installed in the circled positions in the photo You will notice these brackets, when installed, have four holes facing up The brackets are made that way because these are the spots where the Sawmill tracks connect These L brackets will also be left loose for now	
The last two L brackets will be installed over the axles Use four M10x30 bolts and nuts Again, leave these brackets loose for now	
Next, you will be installing the rear end plate onto the trailer Four M10x30 bolts and nuts will be used here	

This is what the end plate looks like after installation Go ahead and tighten these bolts up	
The next piece we will be installing is the draw bar at the front of the trailer You will need the draw bar, the two small black brackets and the small bag of hardware	
This is what the draw bar look like after installation The following photos will show how the brackets are used in conjunction with the bolts to hold the draw bar to the cross pieces	

The smaller black bracket will be used at the rear of the draw bar Lay the black bracket on top of the cross piece Put the bolts through the bracket and through the rear of the draw bar through the pre drilled holes Secure with washers and nuts underneath	
The front cross piece is secured to the draw bar using the longer black bracket This mounts in the opposite manner as the first bracket The bracket sits underneath the draw bar Tighten all four bolts to secure draw bar	
The Coupler is mounted to the draw bar via the long bolts(4) that were in the bag the large diameter axle bolts Place the top-rear bolt through the safety chain and tighten all four bolts	

You will open up the cardboard box containing the wire harness next Lay the harness out on the floor and remove the two orange lights, the two smaller red lights and the two larger red lights from the wire harness via the electrical connectors	
The electrical connector lock nut (as shown in the photo) is too large to fit through the pre stamped square holes You must separate the wires, feed through the square hole and then re-attach wires The procedure to do this will be outlined below	
A red light is pictured here, but the procedure is the same for all four of the smaller lights Remove the heat shrink wrap as pointed out in the photo	

Once the heat shrink wrap is removed, you will see the wires Take note of what colours match up with one another This trailer has **RED** matched up with **BLUE** And has **BROWN** matched up with **BLACK**	
Remove the black tape as shown in the photo above and separate the wires as shown in this photo	
Now that the wires are separated, you will need to prep for light installation You will need electrical tape, two bolts, washers, lock washers, and nuts from the small hardware bag	

The light bracket mounts to the trailer frame using the small hardware mention earlier	
The wires get fed through the hole in the bracket and then the light snaps into place onto the bracket	

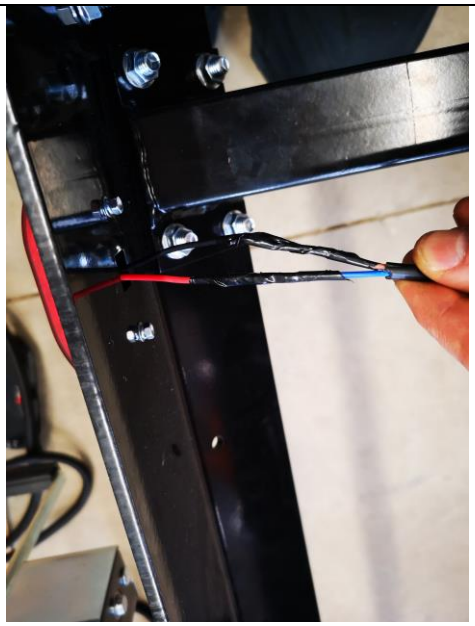
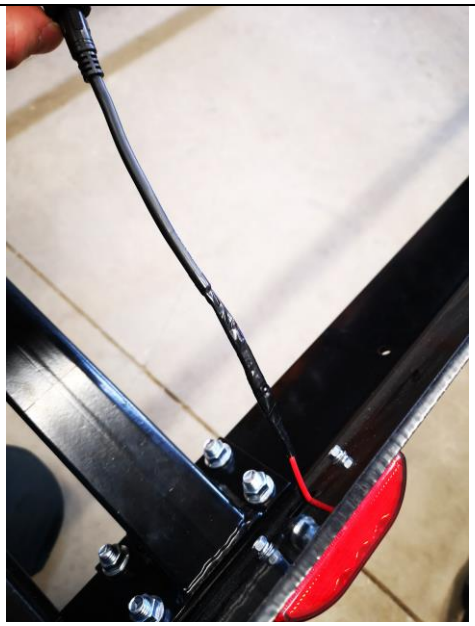
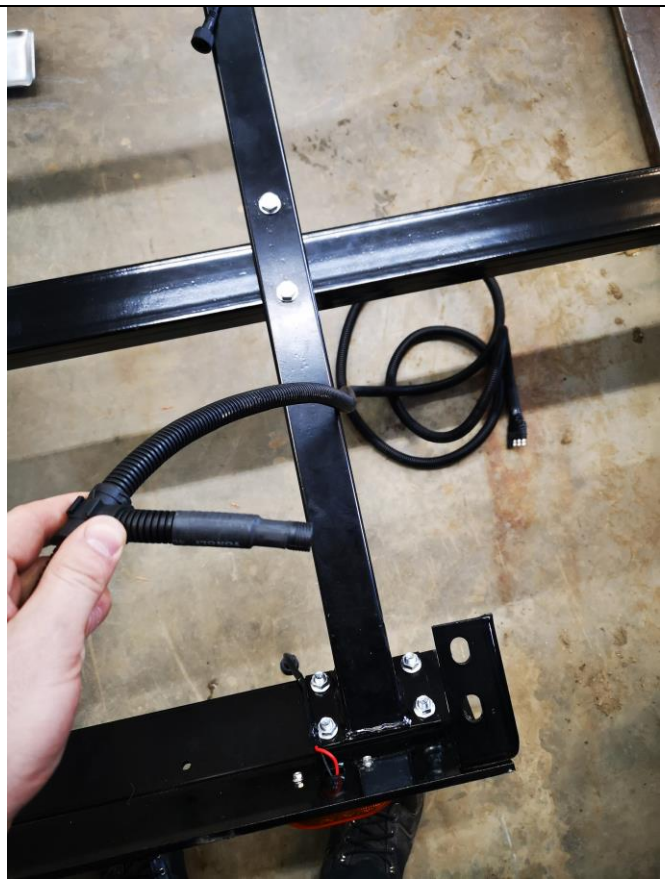
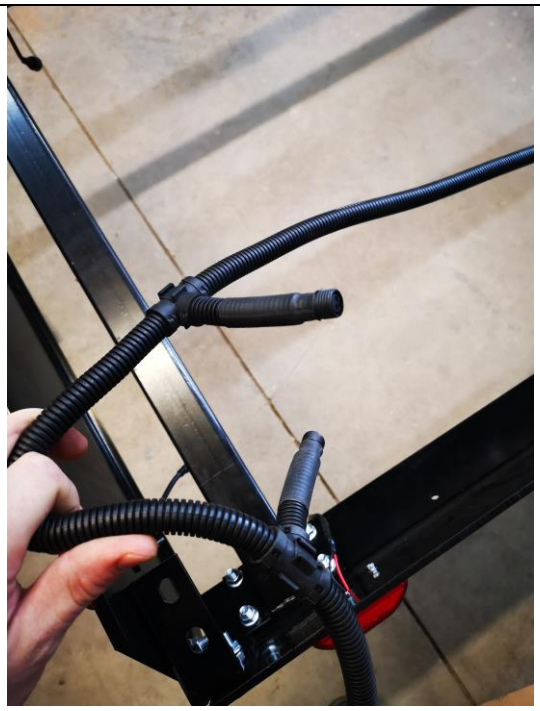
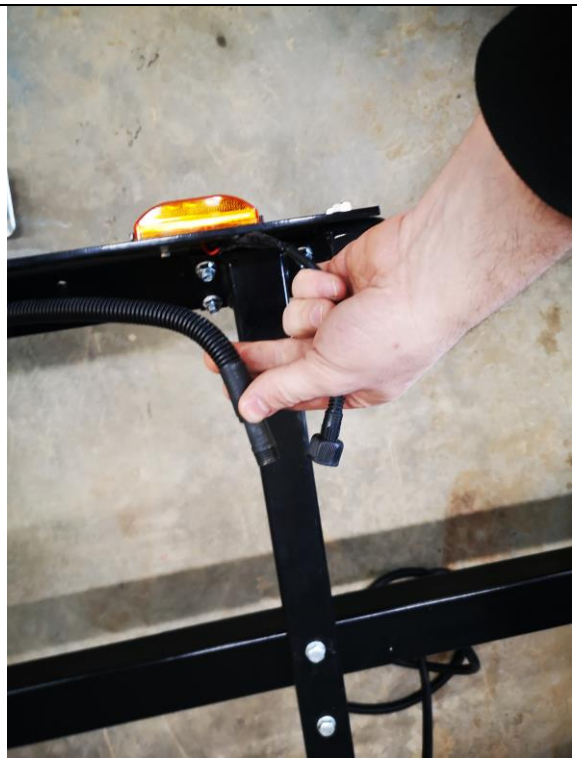
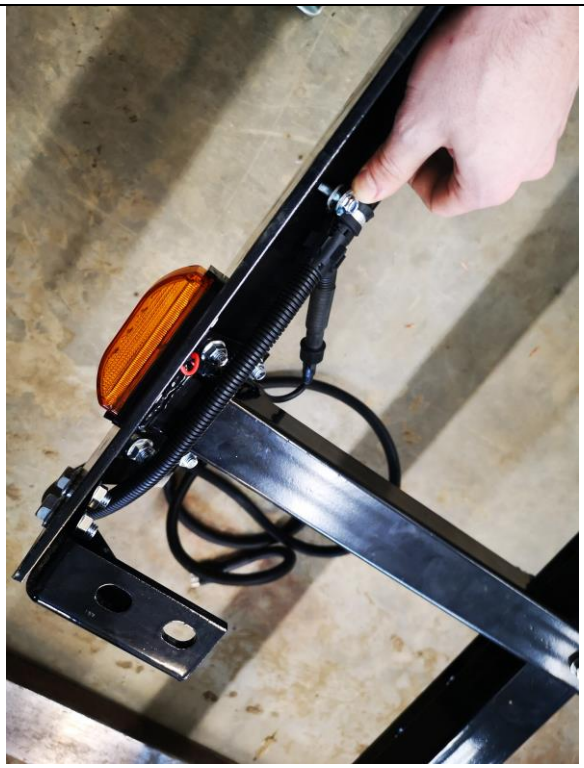
The method used in this manual for re-attaching the wires is to: twist the wires together, cover individually with electrical tape	
After the wires are wrapped individually, then wrap wires together Repeat this process for all four of the smaller lights The orange lights mount at the front The smaller red lights mount at the rear The large red lights mount on the rear plate and these light do not require any re-wiring	
Photo of the small red lights mounted on the side of the rear of the trailer with electrical connector hanging down, ready for wire harness install	

Photo of the rear, large red lights installed with the electrical connectors hanging down ready for wire harness install	
Grab the wire harness assembly Find the 4-pin plug and work back until you find the first electrical connector Plus that connector into the right front orange marker light	

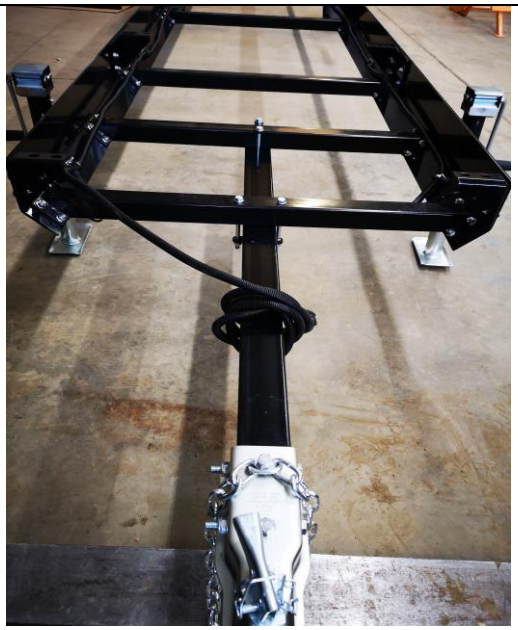
After connecting the wire harness to the R/F light, Work your way to the back of the trailer with the harness You will come up to two more electric connectors by the time you make it back to the R/R light	
Photo of the connectors securely attached to the lights	

Working your way to the other side of the rear, attached the connectors in order	
Work your way back up to the front of the trailer- this time on the Left Front The end of the wire harness will line up with the orange marker light at the front Attach the connector	

Your trailer will look like this now, fully wired with a loose harness	
Now you will need the wiring harness brackets, hardware and zip-ties to secure the wiring harness	

Starting at the Right Front positon on the trailer Wrap one of the brackets around the wire harness just behind the orange marker light You will see a small hole in the frame that allows for the mounting of the wiring harness bracket with the supplied hardware Do not tighten bracket at this time	
Work your way down the side of the trailer You will use six harness brackets on each side Remember to leave all the harness brackets loose for now	
A photo showing a harness bracket near the rear of the trailer	

Work your way back to the front of the Left side of the trailer Again, six harness brackets are used on each side of the trailer All the brackets should still be loose	
A photo of the wiring slack at the rear of the trailer Now you can work on taking out the slack in the wiring harness This will be done by pulling most of the slack to the rear of the trailer The harness should be relatively "slack free" until the rear of the trailer You will be securing the extra harness using zip-ties	

A photo of the slack secured by zip-ties	
You can now tighten all the wire harness brackets to hold the wire harness snugly in place	
Move on up to the front of the trailer and simply wrap the 4-pin connector around the draw bar so it does not drag on the ground and is out of the way until needed Assembly of the trailer is now complete All of the L brackets should still be loose-they will be used to mount the track Some adjustment will need to be made to those L brackets to achieve a level track	

You will have this bar and four bolts left over This is a Sawmill lock bar and is used to lock the Sawmill assembly to the track for transport	
A photo of the left over hardware The M10x30 bolts and nuts left over will be for mounting the track to the trailer The hardware in the bag to the right and the loose pieces below the bags are all extra and will not need to be used	

RR5062 5.1M Sawmill Trailer

A Photo of the finished product without a Sawmill mounted on top	

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