Chroma XR Build Guide

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Contents

1 Tools

Tools provided:

- 3/16" hex head bit for the Silver Bolts
- 5/32 hex head for the Black Bolts
- 2.5mm hex head for the light holding brackets. This should only be needed to tighten the brackets and never for removal.

Tools recommended not provided in the kit:

- Pliers to open the shipping crate
- Electric drill - A power drill can be used to make the process much easier
- Work light and or head lamps
- Ladder – 6'
- Screw drivers – standard and Phillips

2 Basic Components

- **Main frame** – larger pipes. Inner fabric attaches to main frame BEFORE sub frame diagonals.

- **Inner fabric** – the chroma blue inner lining attaches to the main frame BEFORE sub frame diagonals.

- **Sub frame** – smaller pipes attached <u>over</u> the inner frame fabric. You must install the Inner fabric BEFORE installing the sub frame diagonals.

- **Lighting** – metal grid and LED lights installs AFTER the inner fabric and BEFORE the outer fabric.

- **Outer fabric** – black outer shell installs AFTER the wiring is run

3 General Build Notes

3.1   Assembly Notes

- Read the entire instructions completely before building. The sequence of activities is key to avoid having to rework.

- Available ceiling height may affect the technique you choose to build the screen.

- The major parts have a simple to follow color tape pattern as displayed later in this guide.

- All descriptions of the Chroma XR screen are given as if looking at the screen from the front, matching the view of the image on the title page. i.e. you can see the "Back Right Corner" in the picture.

4   Frame Build Techniques Based On Ceiling Height

4.1   Face Down Technique – for high ceiling like a tradeshow

When building the display in a location where there is <u>no</u> ceiling height restriction, such as a trade show, we recommend assembly with the opening & header face down to the floor. This orientation makes installation of the silver bolts on the sub frame easier as most bolt holes will be at standing height. The system can be stood up when ready.
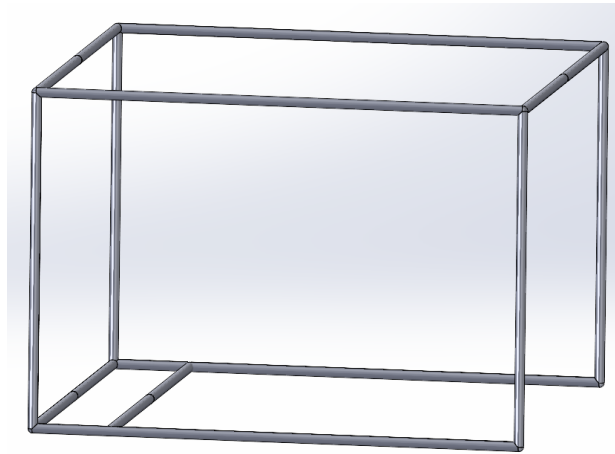

Figure 4-1. Face Down Build – Option 1

4.2   Upright Technique – for low ceilings like an office environment

When building the display in a location where there <u>is</u> a ceiling height restriction, such as inside an office, it is essential that you assemble the display standing up because you will be unable to tilt the system up after assembly.
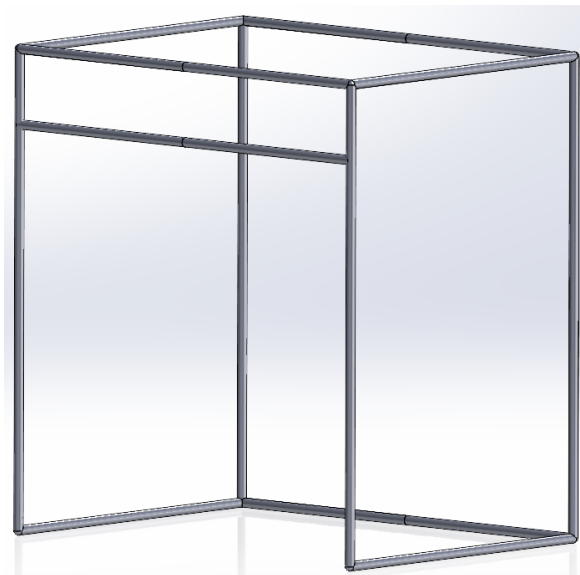

Figure 4-2. Upright Build – Option 2
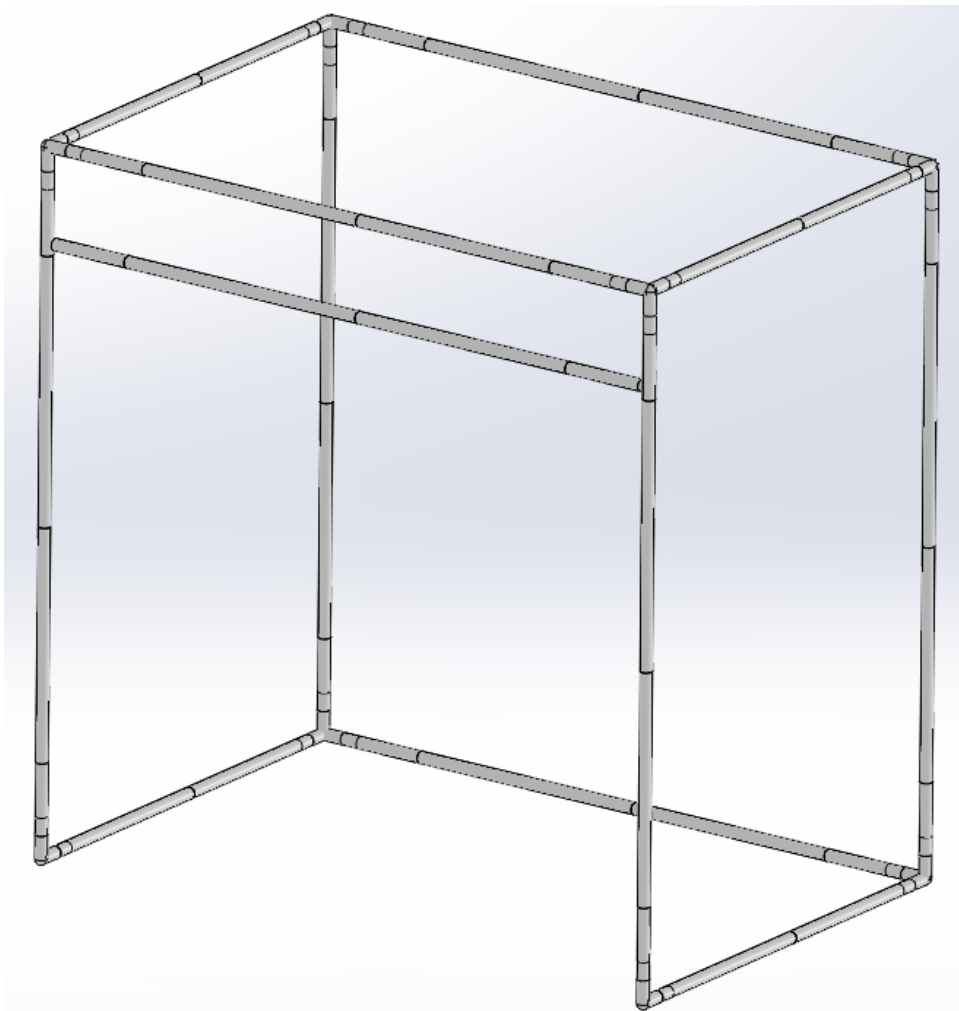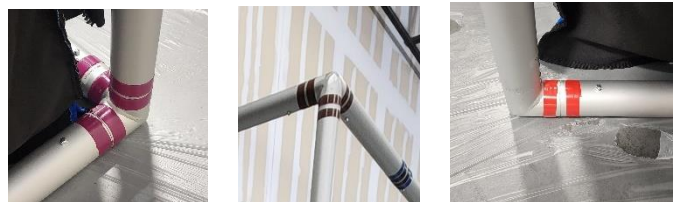
5   Main Frame Assembly

Figure 5-1. Main Frame Assembly

The main frame consists of large aluminium pipes that push together. The pipes are marked with coloured tape at each joint to facilitate easy assembly. Top and bottom corners will have 1 stripe of tape on each part with each corner being its own colour. All middle joints will have two stripes of tape on each part made up of 2 different colors. See figures below for visual examples.

Top and Bottom Corners- Single Tape Color
(single refers to 1 stripe on each part)

Middle Joints - Double Stripe tape 2 colors
(double refers to 2 stripes on each part)

These parts are assembled by depressing the silver button on the "male" side and slipping the "female" side over it till the silver button pops through the hole. If it does not come through immediately, turn the "female" pipe left or right slightly till the button comes through. Tools are typically not required for this assembly.

NOTES
1. **DO NOT INSTALL SMALLER DIAGONAL SUB FRAME TUBES YET, INSIDE FABRIC INSTALLS FIRST** 2. **AS YOU BUILD THIS, YOU MAY NEED TO TAKE PIECES BACK APART TO MAKE INSTALLATION SIMPLER IF YOU ARE BUILDING WITH ONLY ONE PERSON.**

For both the "upright" and "face down" build techniques, begin by assembling the left (ORANGE) and right (RED) sides making two squares by matching the colors.

5.1 Main Frame – Face Down Technique

Figure displays one of the two bottom sections. These sections can be easily identified by the double connections on one side and the single connection point on the other.

Figure 5-1. Main Frame Bottom Section (1 of 2)

Procedure

1. Lay these out with the single connection point towards your intended opening. The top of the left and right walls can be identified by the double connection points on both ends of the pipe.

2. Continue by matching the colored tape.

3. With the side walls assembled, lay out the pipes between the two side walls using the colors as a guide to placement.

4. With the help of another person, place both side walls on their "face" (entrance side) while also lifting one of the connecting pipes and bringing everything together.

5. Do this again for the other two pipes until the basic frame is completed.

NOTE
THE BACKWALL WILL BE FACING THE CEILING AT THIS STAGE WHEN USING THE FACEDOWN TECHNIQUE.

Figure 5-2. Right Side Components

5.2   Main Frame – Ceiling Height Restriction Technique – Option 2

1. With the side walls assembled, lay out the pipes between the two side walls using the colors as a guide to placement.

2. With the help of another person, stand both side walls up in correct orientation while also lifting one of the connecting pipes and bringing everything together.

3. Do this again for the other two pipes until the basic frame is completed.

6 Inner Fabric

> **NOTE**
>
> - **ALL MARKINGS ARE LOOKING AT THE SCREEN FROM THE FRONT.**
> - **PRO-TIP: BEFORE INSTALLING THE INNER FABRIC, BY COLOR, GROUP THE SMALLER DIAGONAL SUB-FRAME COMPONENTS (USED IN SECTION 7) AND PLACE THEM ON THE SIDE WHERE THEY WILL BE USED.**
> - **INNER FABRIC CAN BE INSTALLED WHILE FRAME IS FACE DOWN OR STANDING UP.**

1. Place the inner screen in the center of the screen. Begin spreading out the screen and identify the ceiling as follows:

   a. The ceiling is black with black grommets installed

   b. The logo (if ordered) is a good reference starting point.

2. Lift The fabric straight up and begin to zip the fabric around the top tubes.
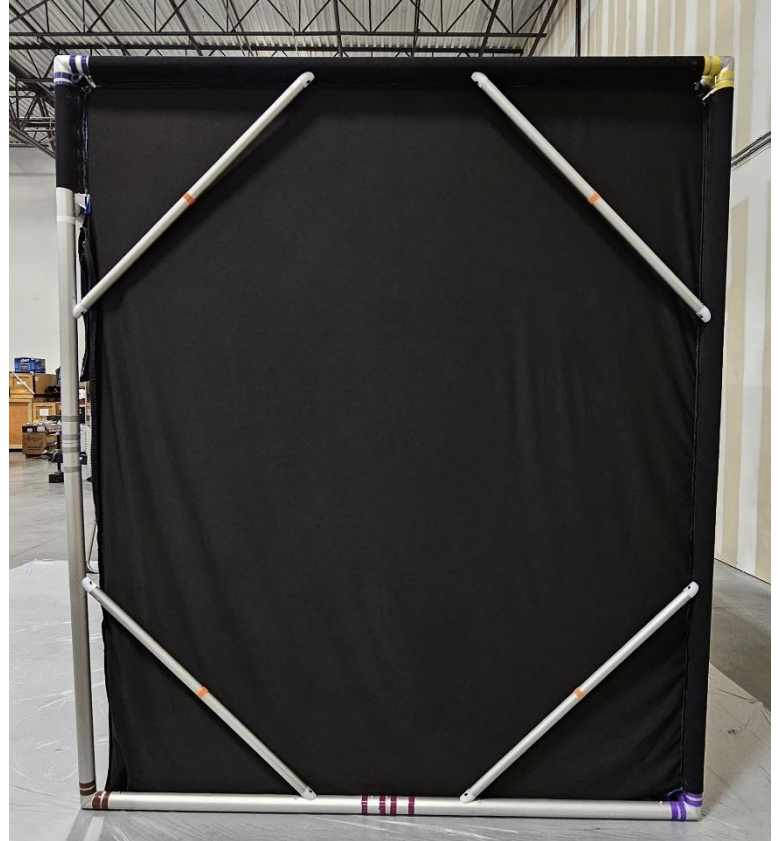
(note you can install 2 diagonals temporarily at this point to stabilize the frame if needed, be sure to remove these before doing the side pole zippers as they will interfere with the fabric))

3. Once the top is complete, proceed to zip up the side poles where appropriate.

(Left Side View)   (Right Side View)

Note all sides must be zipped up before installing the diagonal supports in the next step.
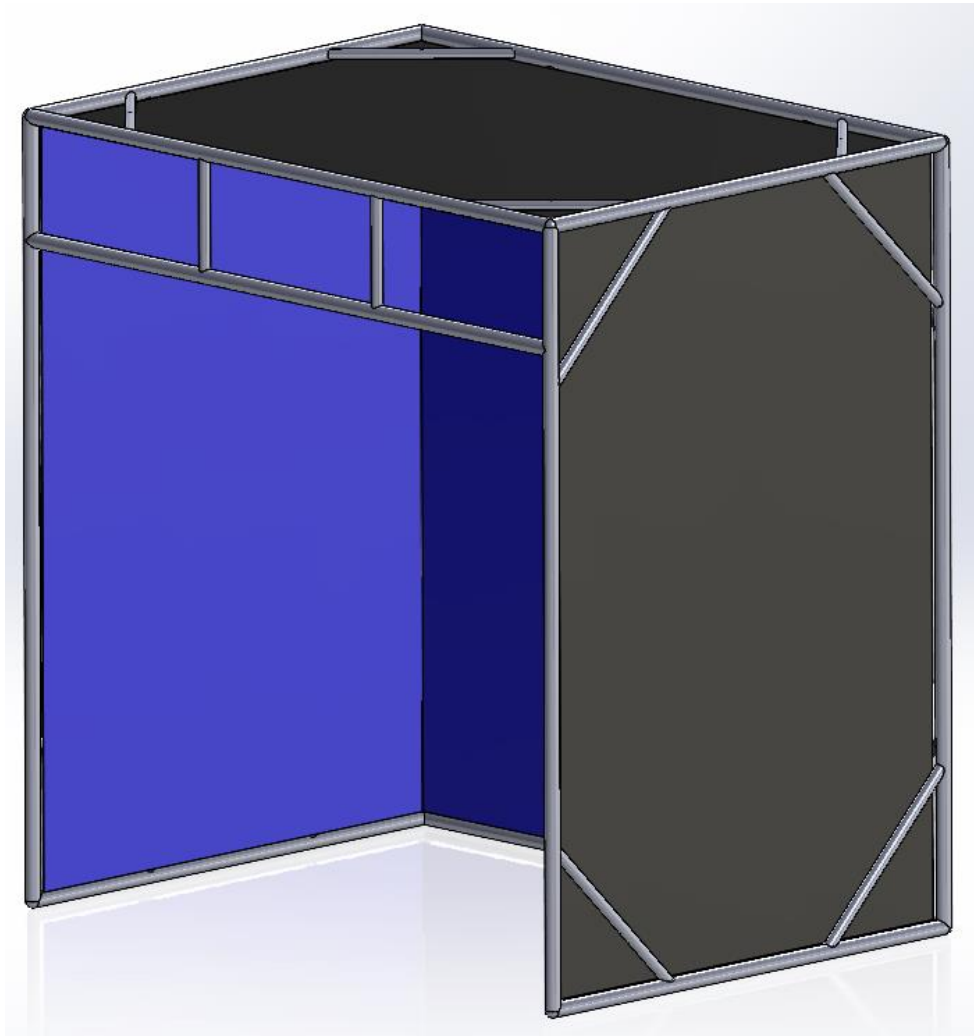
7 Sub Frame Assembly

Figure 7-1. Sub Frame Assembly

The sub frame adds rigidity to the main structure while also adding connection points for the lighting in the "roof".

There are 3 sizes of diagonal supports which are listed below with pictures.

The top supports are the shortest and are designated with white tape in the middle. These also have the 3 ½ bolt in the middle for the light assembly.
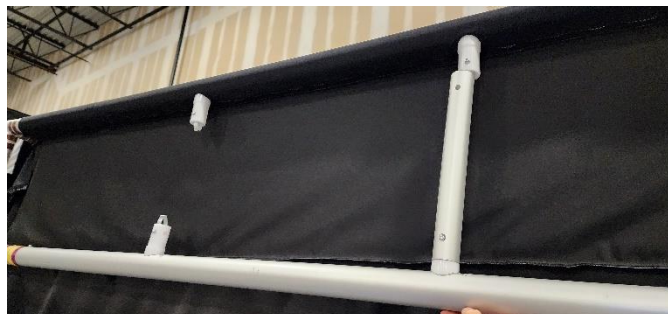

The left and right side diagonal supports are the second longest and they have black tape in the middle.

The back diagonal supports are the longest and they have red tape in the middle.

Once the diagonal supports are installed, you can move on to installing the vertical supports above the opening of the canopy. There are 2 plastic pipe ends that need to be installed on the upper bar after the fabric is zipped over it. You will have to disconnect the lower bar from one side to complete this step.
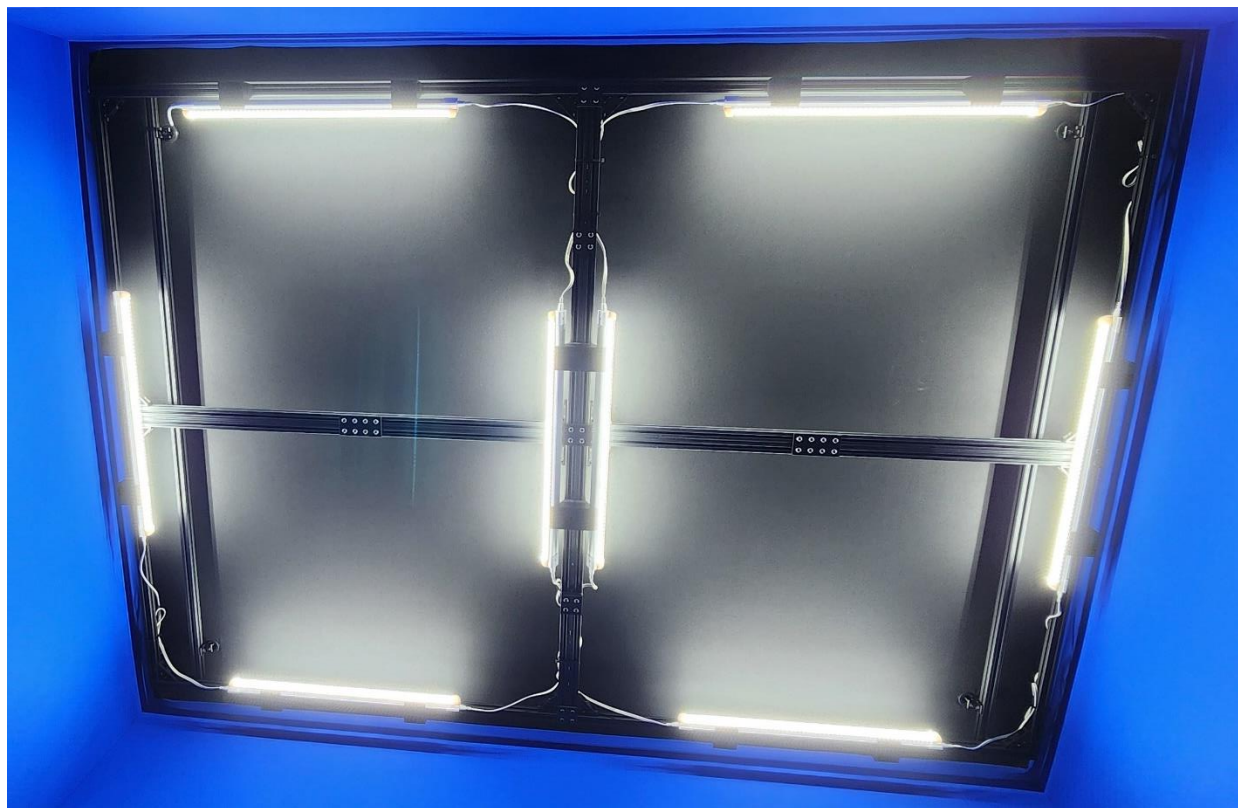
8 Lighting Assembly

Figure 8-1.Bottom View, Completed Lighting Assembly

The Bottom view of completed lighting assembly is shown in Figure 8-1.

Before you begin:

- Do not assemble the entire frame before reading the instructions. The power cord must be installed before the outer fabric is installed as it passes though the grommet in the ceiling.

- Note the 4-hole and 8-hole plates, these will line up with bolt's secured in position inside the track of the corresponding section.

- All lights are angled up 45 degrees.

8.1 Lighting Wiring

1. Now that the inner fabric is connected, find the power cord for the lights. It is identifiable by the NEMA plug on one end and a switch box in the middle of the cord.

2. Take the power cord and run it up the side (closest to where your wall power) of the screen to the top and then down through the closest grommet hole. This will stay here in preparation for the installation of the lights.
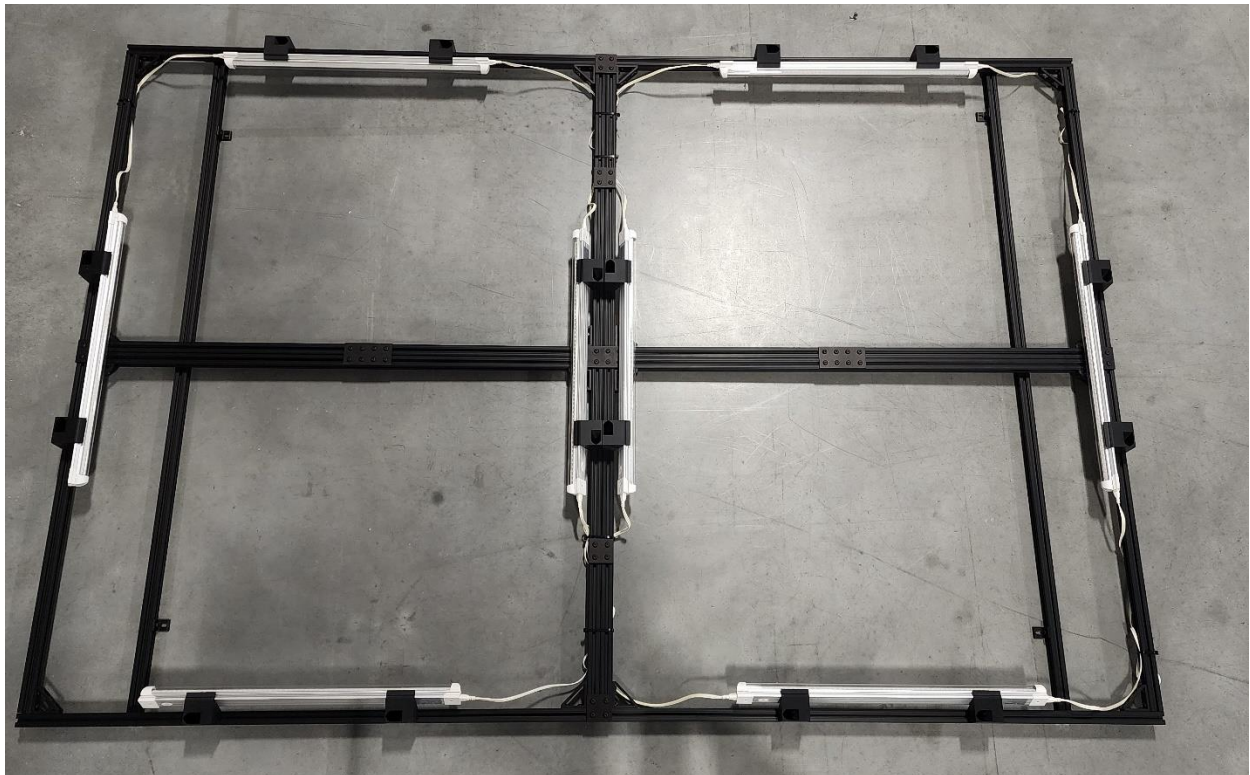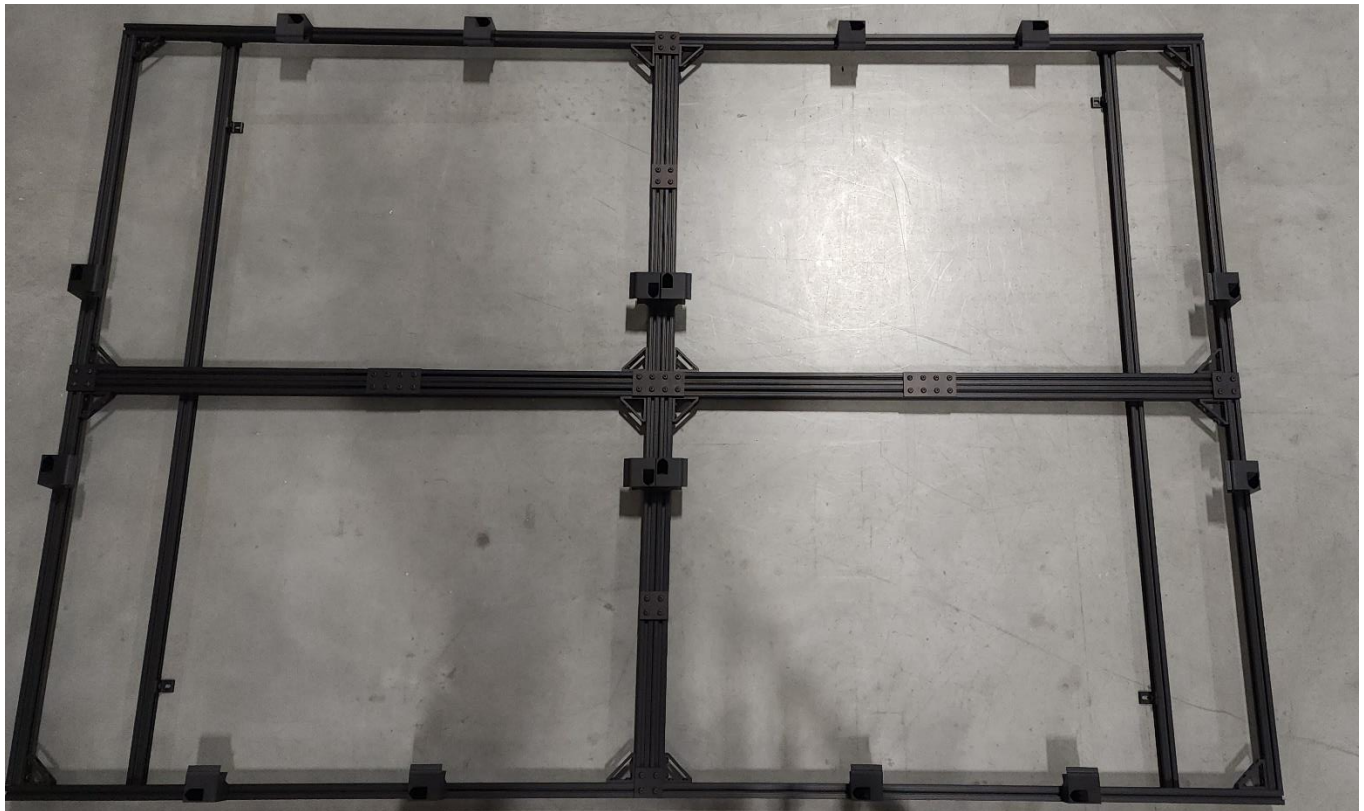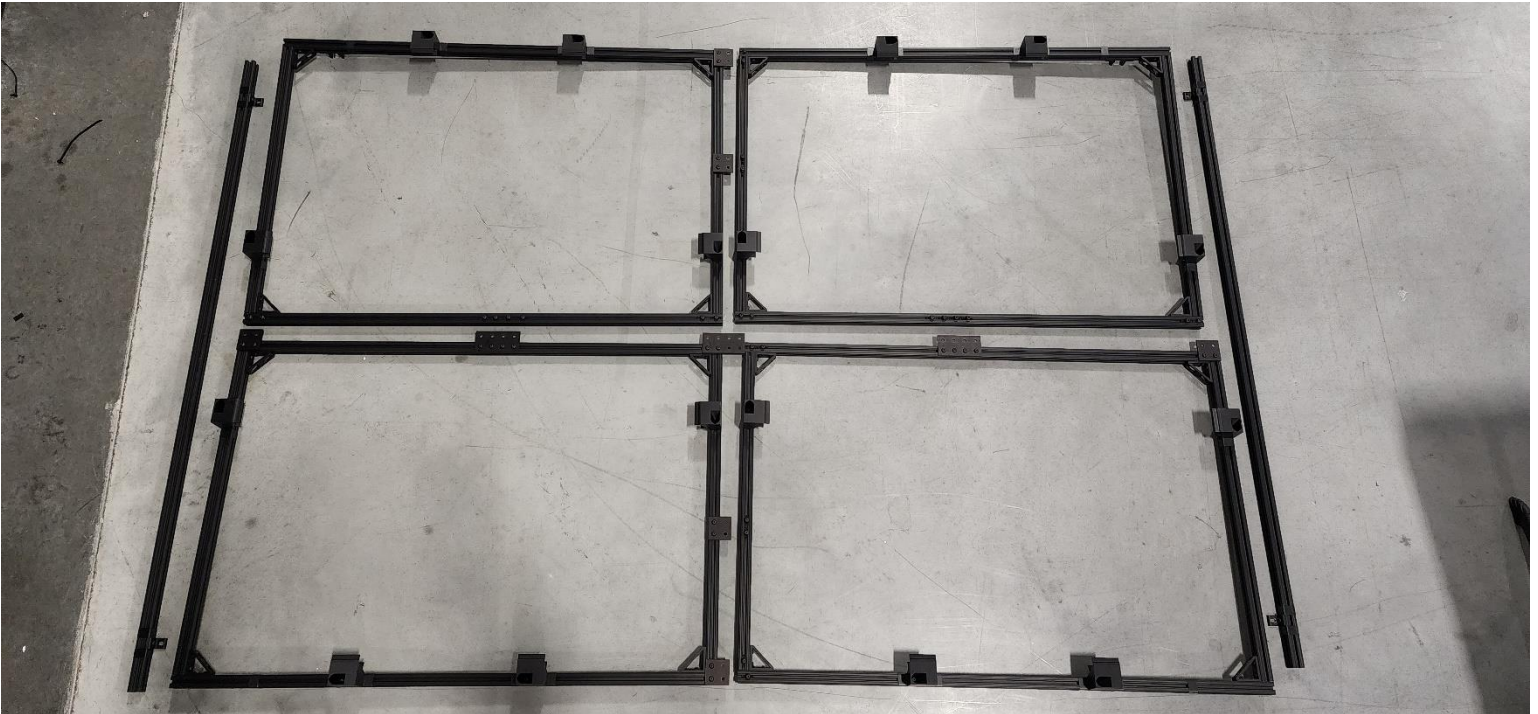
Figure 8-2. Positioning the power cord

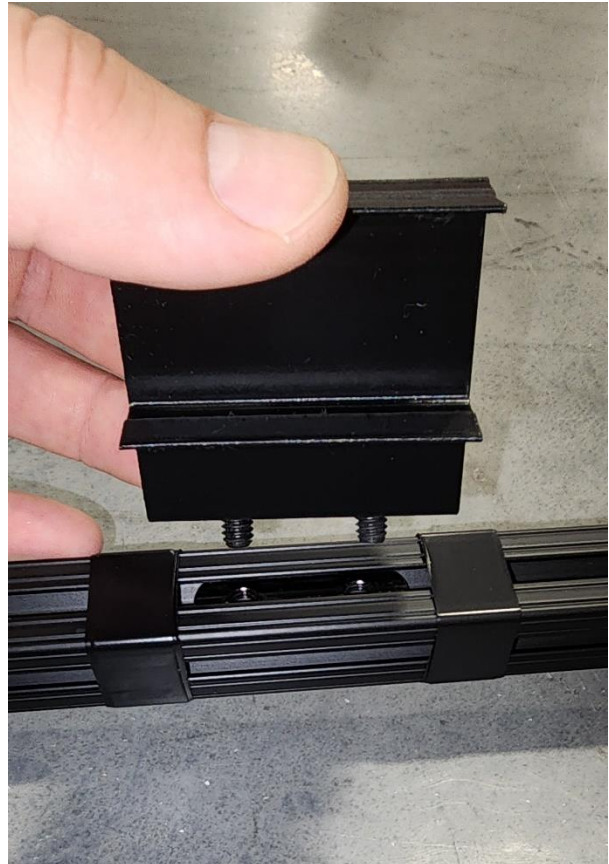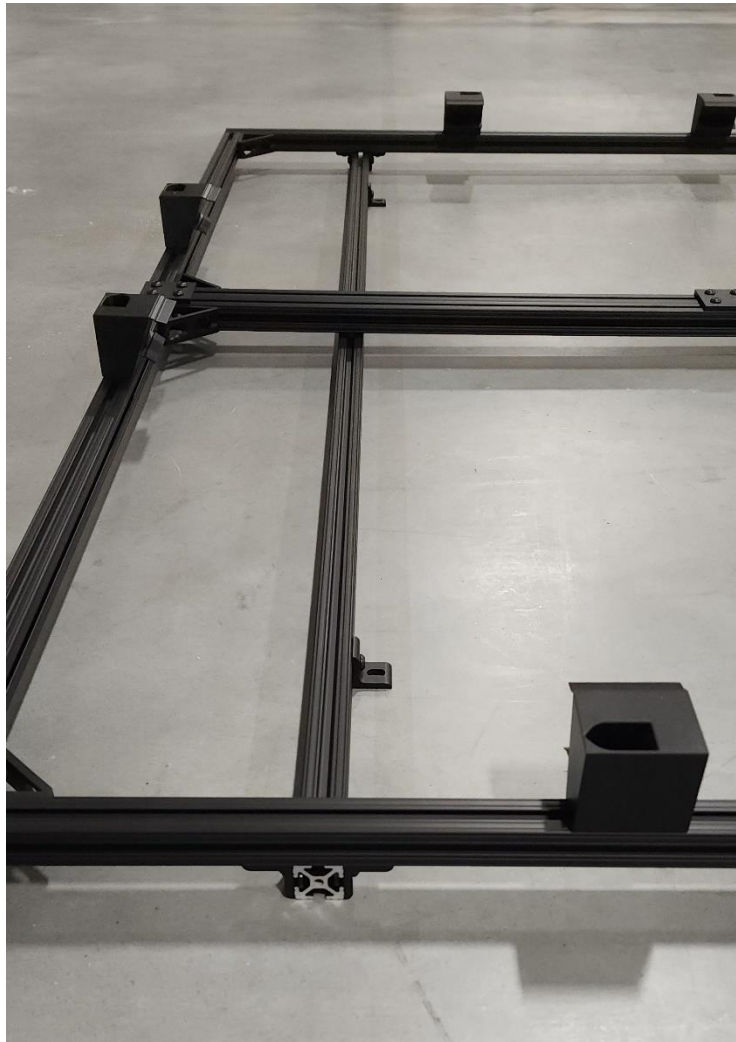| NOTE |
| --- |
| **THIS IS ALSO THE TIME TO INSTALL ANY OTHER WIRING THAT MAY NEED TO GO INSIDE OF THE DISPLAY. I.E., <u>POWER EXTENSION WIRES FOR BASE STATIONS</u>.** |
| |

8.2   Light Frame Subassembly

Lay out the parts of the light assembly like the picture below. The bolts are secured opposite the plates for storage purposes. You can remove these, leave the T-nut in the track, and position the plates right over the area. Line up the T-nuts with the holes and use the bolts to secure the plates.
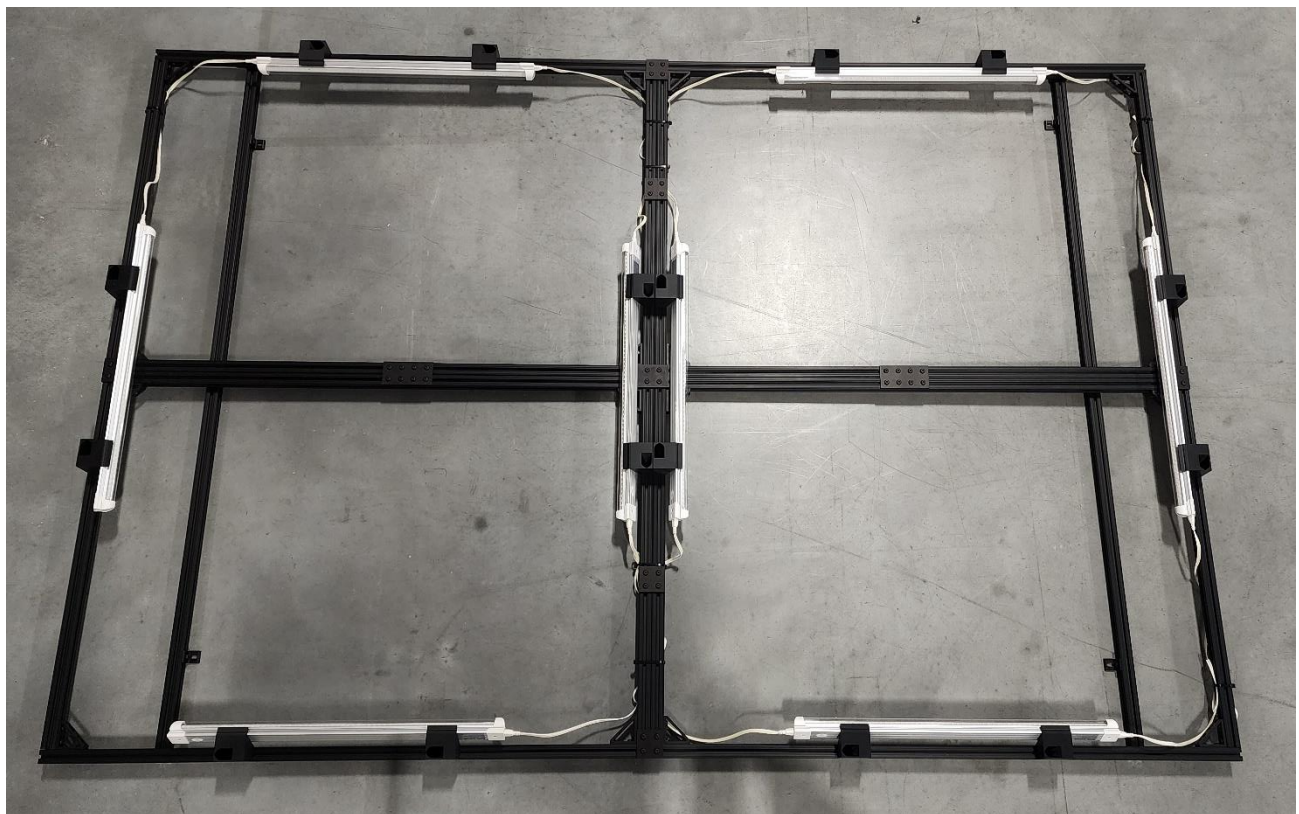
8.3   Light Clip Installation

The 2 support bars mount on the opposite side of the frame from the light mounts. There is black tape wrapped around the track marking the position.

Mounting the lights themselves is as simple as pushing them into the brackets on the frame. There are 2 brackets per light. Use the provided wiring to connect each light together like the picture below. Zip ties are provided to bundle and hide the extra wire on top of the frame.

Note there will be 2 ends that do not have a plug in them. One will be for the main power and the other is not used.

Once the wiring is complete, you will be ready to mount the entire light structure to the canopy. Make Sure the Bolts passing through the canopy have only one nut threaded onto them and the second one will be used to secure the frame as seen below.
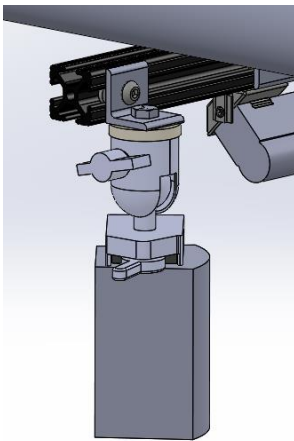

Utilizing at least 2 people, carry the frame into the canopy and lift it straight up. Align the brakets to the bolt and secure them with the second nut.

Now you can plug the power into one of the open ends on the lights.

8.4   Base Station Mounts

The base stations mount to a corner bracket with the provided hex head bolts. These install on opposite corners of the light frame and the corner brackets are pre-installed.

9 Outer Fabric Installation

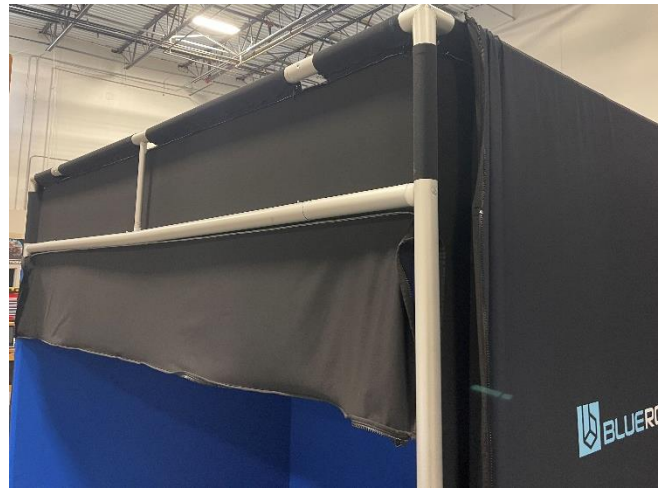| NOTE |
|---|
| • **THE OUTER FABRIC SHOULD BE INSTALLED WITH TWO PEOPLE AND WILL GENERALLY REQUIRE A STEP STOOL.**

• **THE LIGHTER SHADE OF BLACK (ALMOST A BLUE) WILL BE THE EXTERIOR OF THE SCREEN. THIS CAN ALSO BE IDENTIFIED BY THE LOGO. MAKE SURE IT IS IN THE CORRECT ORIENTATION, TO BE READ LEFT TO RIGHT.** |

1. Begin by laying out the top fabric behind the screen.

2. Using two people, lift the "front" of the outer fabric up and over the top of the screen.

3. Slide the outer fabric on top of the screen until the rear corners of the roof are in place.

4. Pull the outer fabric towards the front of the enclosure until the edges get to the front of the screen.

5. Begin interlocking the zippers around the front of the screen and zipping the outer fabric to the inner fabric.

6. Once the outer fabric and inner fabric are connected together, the floor will need to be installed by slipping the floor fabric under the frame so that the blue screen inside the structure stretches from wall to wall.