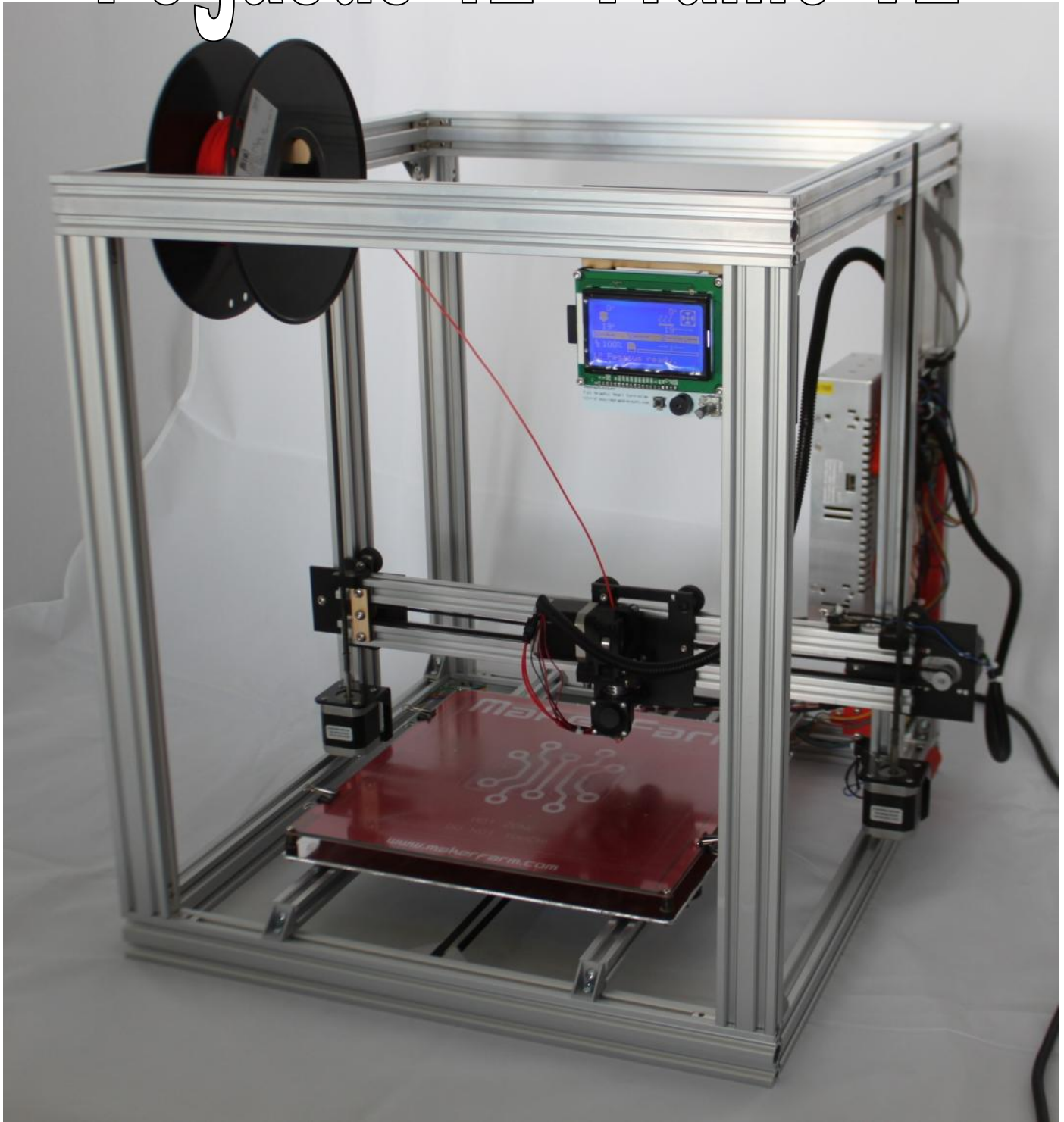


Pegasus 12" Frame V2



Visual Instructions

MAKERFARM



Updated 8/10/16

Frame

Bottom Frame

Gather the following parts

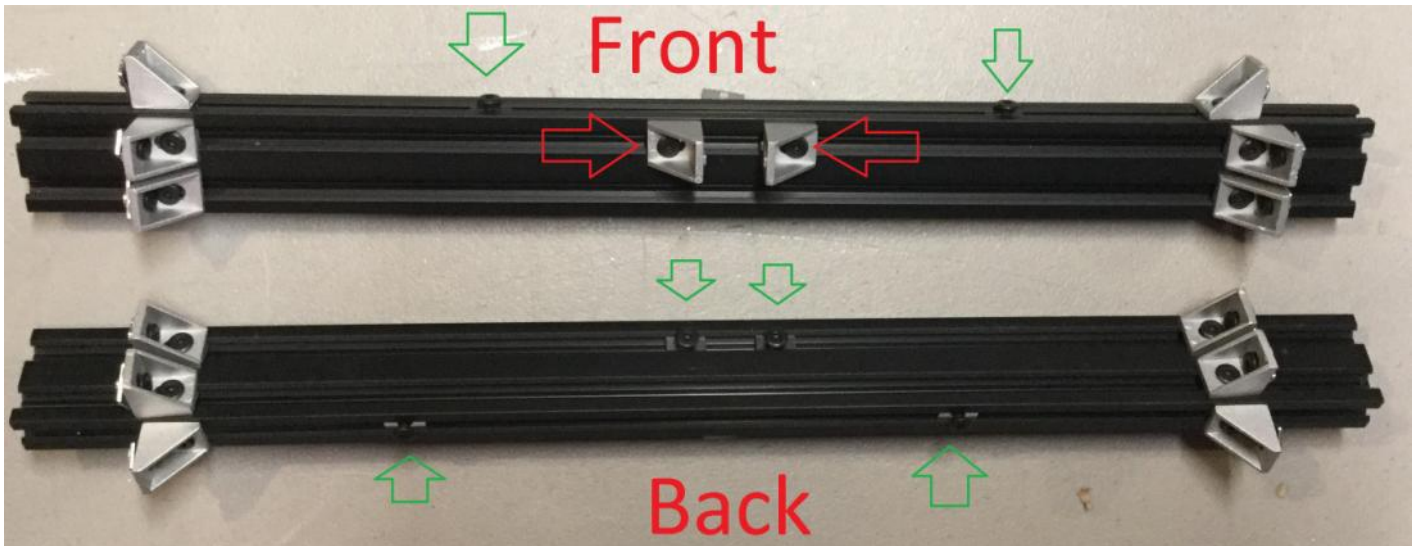
- 4 20x40mm Aluminum Extrusions
- 2 x Hidden Corner Brackets with 4 Set Screws (Install 2 set screws into each Hidden Corner Bracket Now)
- 20 Cast Corner Brackets
- 44 x M5x8mm Bolts
- 44 x T-Slot Nuts
- 1 x Alan Wrench from e3d hot end kit



1. **Install One Hidden Corner brackets, Three Cast Corner Brackets using M5x8mm bolts and T-Slot Nuts into two Extrusions, these will be for the Right and left of the frame base.**



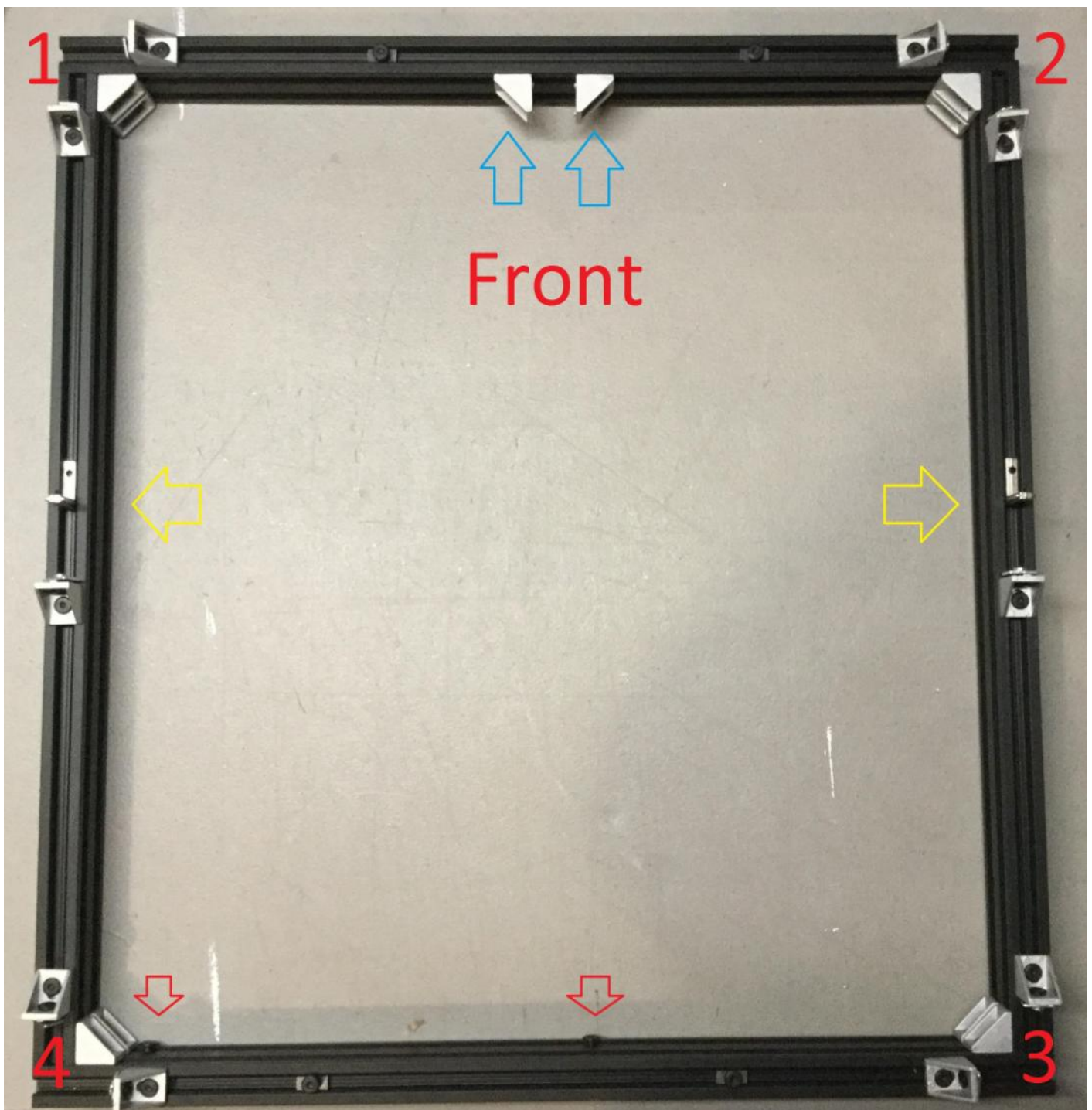
2. **Next get 2 more extrusions, Install an M5x8mm Bolt and T-Slot Nut in the 6 locations shown with green arrows. Get 2 Cast Corner Brackets, 2 M5x8mm Bolts and 2 T-Slot Nuts and install them in the center of the Front Extrusion as shown by the Red Arrows. Get 12 Cast Corner Brackets, 24 M5x8mm Bolts and 24 T-Slot Nuts, Install them on the ends of the two extrusions so your Front and Back Extrusions match the picture below.**



Next install the left and right extrusions onto the Cast Corner Brackets on the front and back extrusions as shown below. Make sure the Cast Corner Brackets on the front extrusion are in the top V-Slot of the extrusion (See Blue Arrows Below). Make sure the M5x8mm bolts and T-Slot nuts on the back extrusion are in the bottom V-Slot of the extrusion (See Red Arrows Below). The Hidden Corner Brackets should be in the front (Yellow Arrows)

Tighten the M5x8mm Bolts in the Cast Corner Brackets and make sure the box stays square and tight (if you have clamps that may help to keep the extrusion tight while you tighten the set screws)

In the picture there is a number in each corner, this will help in the next couple pages to help identify the corner being discussed.



Top Frame

Gather the following parts

- 4 20x40mm Aluminum Extrusions
- 5 x Hidden Corner Brackets with 10 Set Screws
- 15 Cast Corner Brackets
- 30 x M5x8mm Bolts (11 shown in picture)
- 32 x T-Slot Nuts
- 2 x M5x12mm Bolts
- 1 x Wood Spool Mount



Install 2 M5x12mm bolts with T-Slot Nuts, 3 Hidden Corner Brackets and 3 Cast Corner Brackets (Using 6 M5x8mm Bolts and 6 T-Slot Nuts) into the Front Extrusion.

Next Install 6 Cast Corner Brackets into the Back Extrusion (using 12 M5x8mm Bolts and 12 T-Slot Nuts).

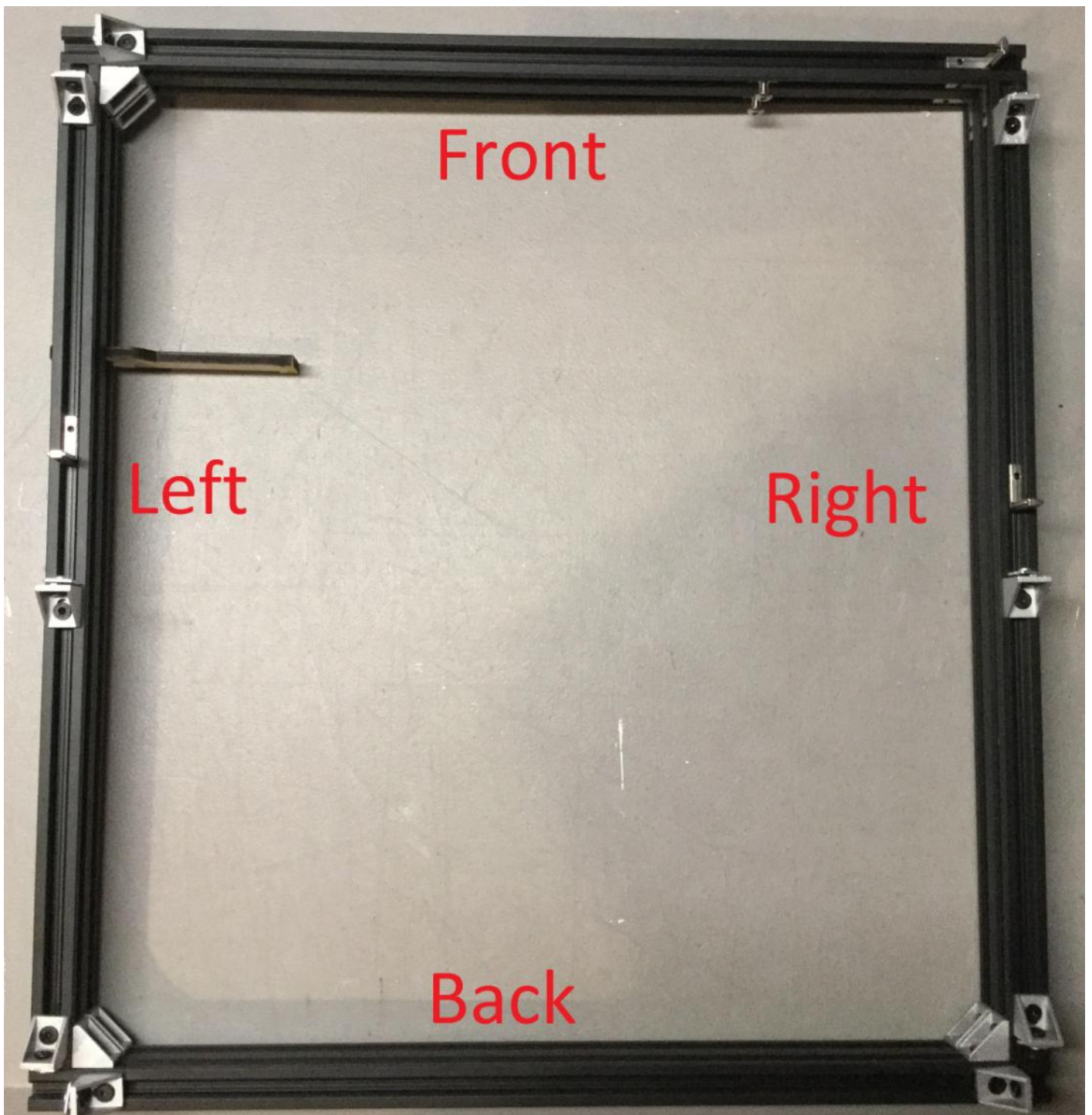
Install 3 Cast Corner Brackets (6 M5x8mm Bolts and 6 T-Slot Nuts), 1 Hidden Corner Brackets and the Wood Spool mount into the Left Extrusion and last 3 Cast Corner Brackets (6 M5x8mm Bolts and 6 T-Slot Nuts) and 1 Hidden Corner bracket into the left Extrusion.



For this section you are assembling the top part of the frame upside down so it will lay flat during assembly.

Install the left and right extrusions onto the Cast Corner Brackets on the front and back extrusions as shown below.

Tighten the M5x8mm Bolts box stays square and tight (if you have clamps that may help to keep the extrusion tight while you tighten the bolts)



Vertical Frame Rails

Gather the following parts

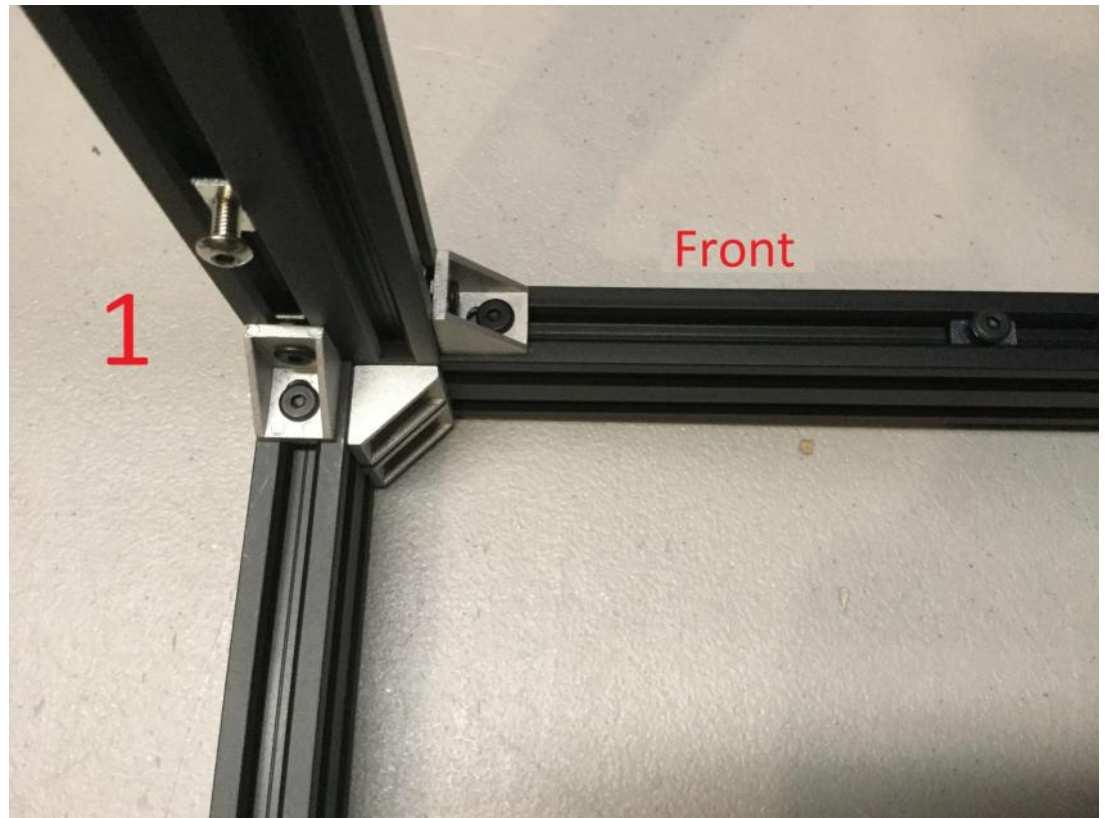
- 6 20x40mm Aluminum Extrusions
- 8 x T-Slot Nuts (4 shown in picture)
- 4 x M5x12mm Bolts
- 4 x M5x8mm Bolts (Not shown)



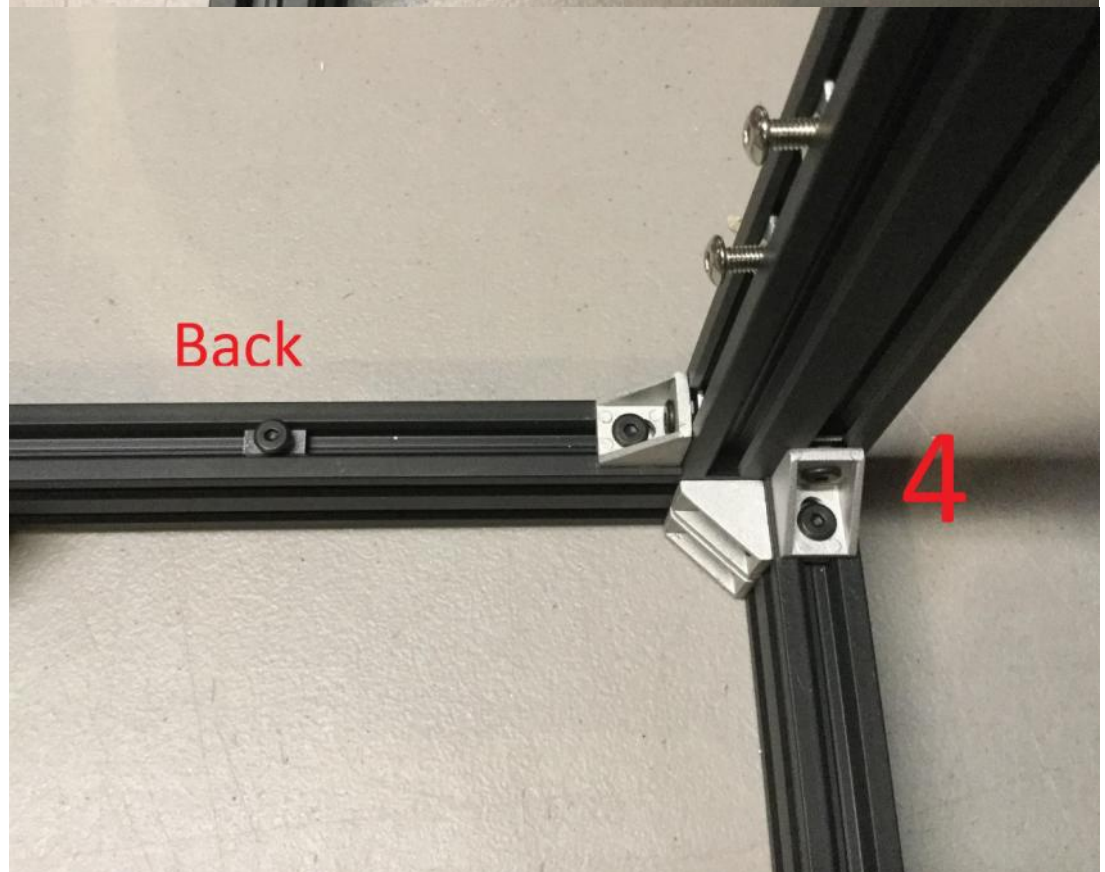
Install an M5x12mm bolt and T-Slot Nut on 3 of the Extrusions as shown below.



Now install the extrusion with one M5x12mm Bolt and T-Slot Nut into Corner 1 (shown on page 4), Notice the orientation of the M5x12mm Bolt below, Tighten down the Cast Corner Brackets.



Next you are going to install an Extrusion with the two M5x12mm bolts in Corner 4 (shown on page 4). Tighten down the Cast Corner Brackets



Next you will install an extrusion on Corner's 2 and 3 (shown on page 4). These extrusions will not have any of the M5x12mm Bolts on them.

Next you are going to install the two remaining extrusions, these will go in the center of the right and left sides of the frame on the hidden corner bracket and cast corner bracket you installed previously. The Extrusion with the one M5x12mm Bolt will go on the side shown in the picture below. Position the Extrusion so it is 140mm from inside of the back extrusion you just installed, then tighten the hidden brackets down.

Now you will install the last 4 T-Nuts and M5x8mm Bolts, they will be used to mount the Z Motor mounts later on (Shown in the Bottom Photo) They will be installed the Two Center Extrusions, two on the right extrusion and two on the left. They will go where the blue arrow is in the picture below on the front side of each extrusion (The M5x12mm Bolt seen with the Green Arrow below is mounted on the left side of the extrusion and is used to mount the Z endstop)

