

# Rat Rig

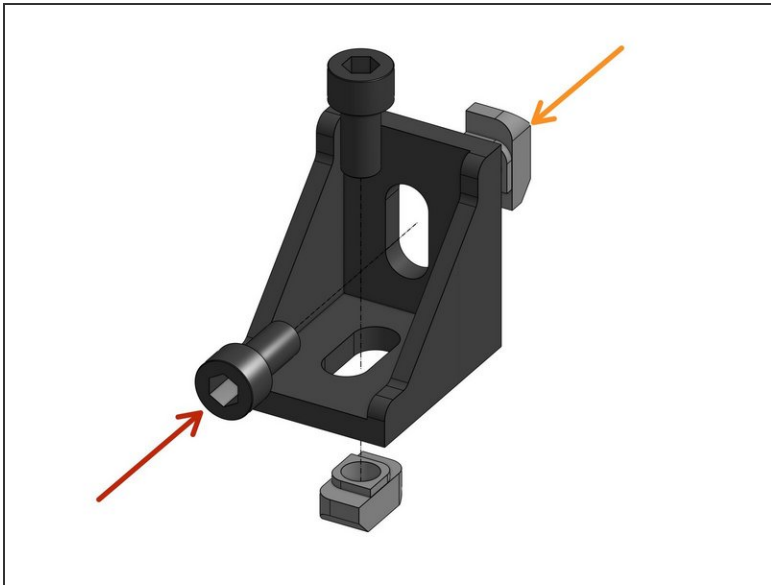
## 03. MESH - Workbench 1.0

Build Guide valid for: - MESH Workbench Light - MESH Workbench Standard - MESH Workbench V-Core - MESH Workbench V-Cast


Written By: Rat Rig



## Step 1 — Set-up Cast Corners




 Set up all Cast Corner Brackets in your kit as described:

 Upon building the **Light Workbench**:

- Cap Head Screw M6x12
- 3030 Drop-in T-Nut M6

 Upon building the **Standard Workbench**:

- Cap Head Screw M8x16
- 4040 Drop-in T-Nut M8

 Set T-Nuts into position, but do not tighten them just yet.

Step 2 — Identify your profiles

Workbench - Light / V-Core / V-Cast

Variant:	55	7575	1050	1075	1010	V-Core 300	V-Core 400	V-Core 500	V-Cast	V-Cast Wide Boy
A	880	880	880	880	880	700	600	500	880	880
B	780	1030	1280	1280	1280	558	658	758	552	652
C	780	1030	780	1030	1280	623	723	823	597	597

All lengths in millimeters

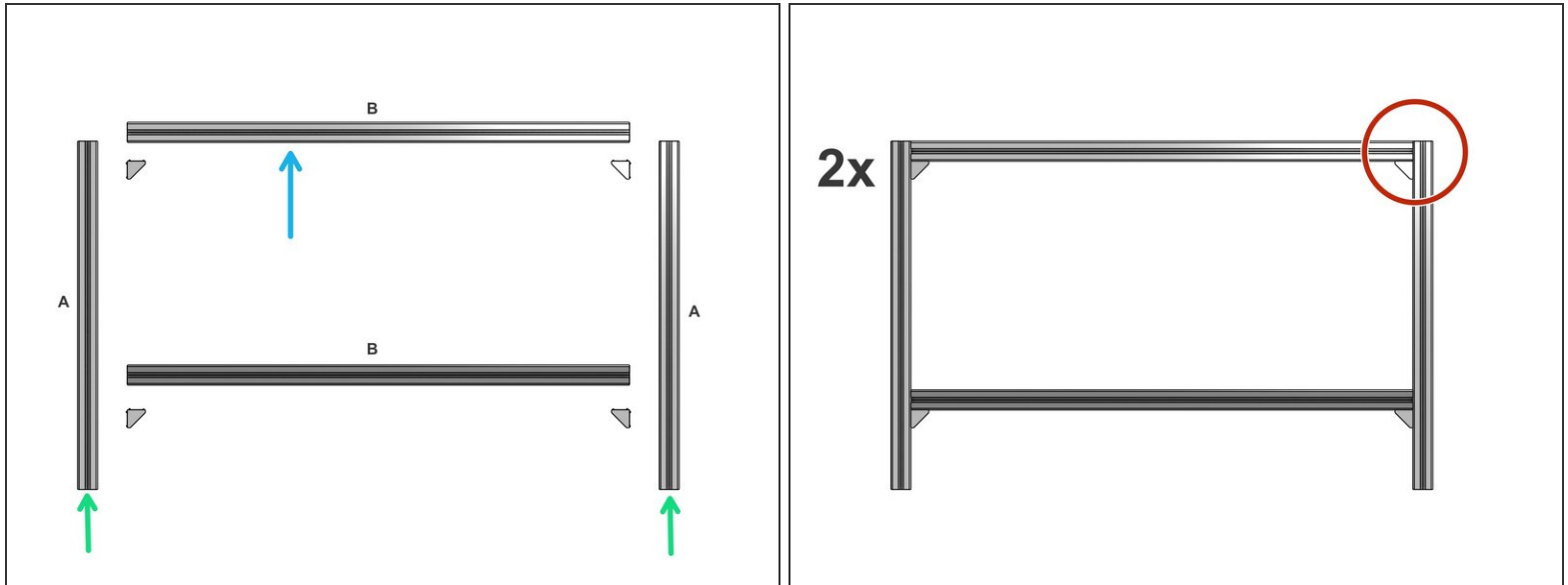
Workbench - Standard

Variant:	55	7575	1050	1075	1010	1510	1515
A	880	880	880	880	880	880	880
B	760	1010	1260	1260	1260	1760	1760
C	760	1010	760	1010	1260	1260	1760

All lengths in millimeters

- Consult the table and separate your profiles in 3 groups, by length: A, B and C
- ⚠ Note that V-Core Workbenches have shorter legs than all other workbenches. Older versions may have longer legs than newer ones (for example, 880mm or 700mm)

### Step 3 — Assemble Side Frames (x2)



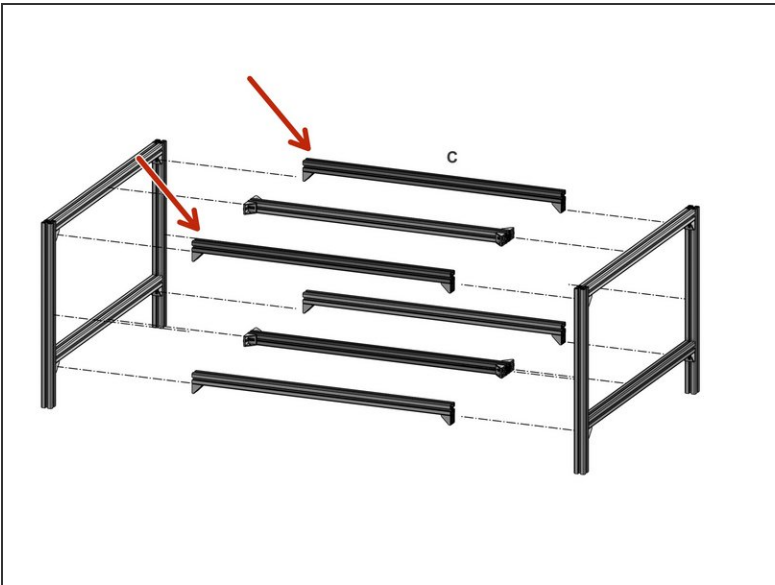
**i** Assemble 2 side frames by fitting the T-Nuts inside the slots and tightening the screws on the Cast Corner Brackets.

- **CAUTION:** if you're using levelling feet, you will notice that one end of each A profile is threaded, so you can screw in the feet. Make sure you orient those profiles so the threaded ends are at the bottom.

**!** Make sure your side frames are perfectly square after assembly. Easiest way to check this is to measure the diagonals of the frame, they should be the same length. If they're not, untighten the screws and adjust.

- On the variants Workbench - Standard 1510 and 1515, the top B profiles are 4080 instead of 4040 (they have double the width shown on the picture).
- Take note of how the profiles should be joined.

Step 4 — Connect the 2 side frames with the remaining profiles

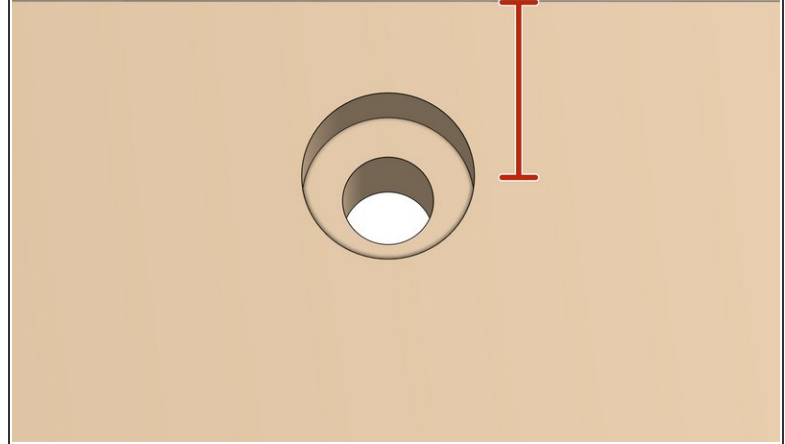


Variant	Top C profiles	Bottom C profiles
55	2	2
7575	3	3
1050	4	3
1075	4	3
1010	4	3
1510	5	4
1515	5	4
V-Core 300	2	2
V-Core 400	2	2
V-Core 500	2	2
V-Cast	2	2
V-Cast Wide Boy	2	2

- Attach Cast Corner Brackets to the remaining profiles, as pictured, and connect them to the side frames by fitting the t-nuts inside the slots and tightening the screws.
- Depending on your Workbench variant, you will have more or less C profiles. Adjust assembly accordingly and consult the table on the second image to understand how many profiles should be used at the top and at the bottom.
- On the variant Workbench - Standard 1515, these 2 profiles are 4080 instead of 4040 (they have double the width shown in the picture). They should also use 4 additional corner brackets, connecting them to the top horizontal profiles.

## Step 5 — Table top

Variant	Table top dimensions(mm)
55	840x840
7575	1090x1090
1050	840x1340
1075	1090x1340
1010	1340x1340
1510	1340x1840
1515	1840x1840
V-Core 300	618x683
V-Core 400	718x783
V-Core 500	818x883
V-Cast	612x657
V-Cast Wide Boy	712x657



- The table top is not included in your kit, you will have to source it and have it cut locally. Check the table to identify table top dimensions for your specific Workbench size. We suggest sourcing a 20mm thick MDF board.
- A Power Drill with drilling bits for wood of different diameters will be needed for this step. You will drill counterbore holes around your table top and place a screw with a T-Nut on each hole. Placing of the holes is left at your discretion. For larger workbenches, you may want to have some fixation points at the center too.
- Workbench - Light / V-Core / V-Cast
  - Distance from table top edge to hole center: 15mm
  - Drill a through-hole with a 6mm drill and then make a counter-bore with a larger drill, to create room to lodge the screw head.
- Workbench - Standard
  - Distance from table top edge to hole center: 20mm
  - Drill a through-hole with an 8mm drill and then make a counter-bore with a larger drill, to create room to lodge the screw head.

## Step 6 — Brackets for wall attachment



- Some versions of the Workbench include a couple of brackets which can be connected to the slot using the included Countersink screws and T-nuts.
- These brackets can be used to attach the workbench to the wall, reducing vibration.