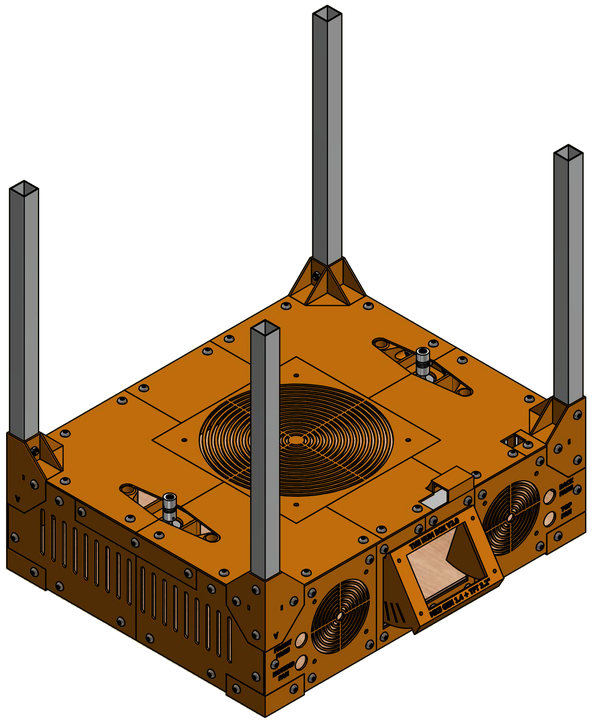
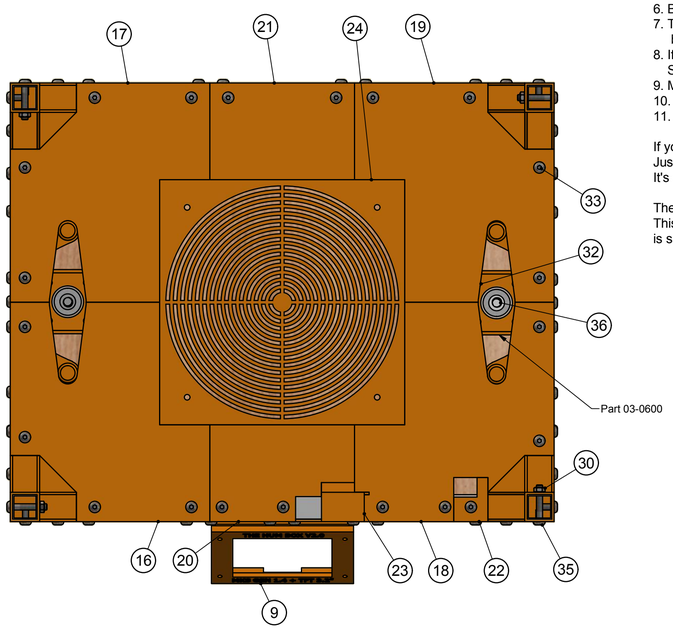




Top view

Parts of the frame are used as visualisation.
This drawing is only used for the positions of the parts for the electrical cabinet and it will be used to complete the Z-axis assembly with the Heated bed assembly

If there are parts not shown on this drawing, they will come to note on another drawing.
Most likely you will find those parts back in the drawing for positioning the electronic parts into the electrical cabinet.

As in previous drawings, we used different bolts and nuts, galvanised steel versions.

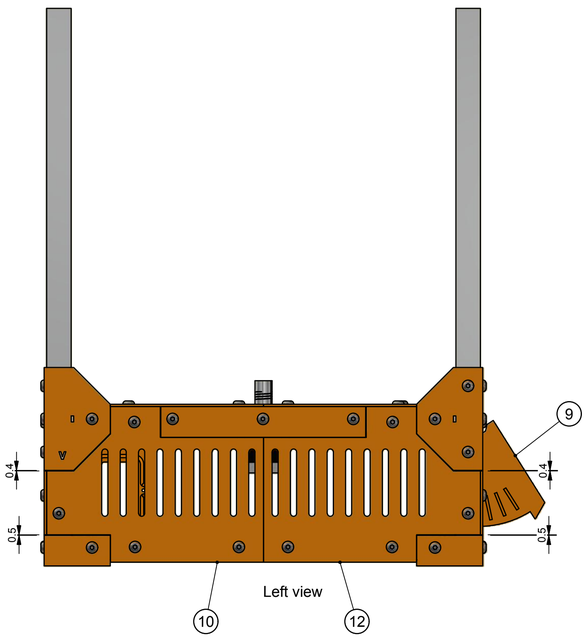
1. Print all parts starting with 05-0600 u/i 05-0620 according to the part list.
2. Use the parts from positions 5 - 6 - 10 - 11 - 12 - 13 and 14 to check the measurment of 85mm.
3. When those parts (from 2) are printed, turn the frame assembly 180 degrees so the top is standing on the build area.
4. Take the Heated bed assembly and place the smooth rods in the LM12UU bearings
5. Place the smooth rods in 03-0601 and slide the center of the frame down so the rods are in 03-0600. Again, you should have 85mm clearance between the 2 Aluminium extrusions.
6. Be sure the Heated bed assembly is also turned 180 degrees before full assembly
7. Take the parts from line 2 and check if they fit on the corners, there should 0 to 1mm play between the Foot and the Frame extender.
8. If for one or the other reason you can't get the parts from line 2 fitted, sand them down till they do fit. Sand them down all on the same spot, sugested position to sand is at the foot side.
9. Mark the holes from the frame extender.
10. Drill the holes with a 5 or a 5.5mm drill bit
11. Place the M5x35mm bolts from the outside in, place the M5 nuts and tigthen all frame extenders in place.

If you like, you can now start working on placing all the printed parts on all 4 sides.
Just be aware that electronic components need to be placed on 7 parts of the side panels.
It's advised to do that first before closing the sides of the cabinet.

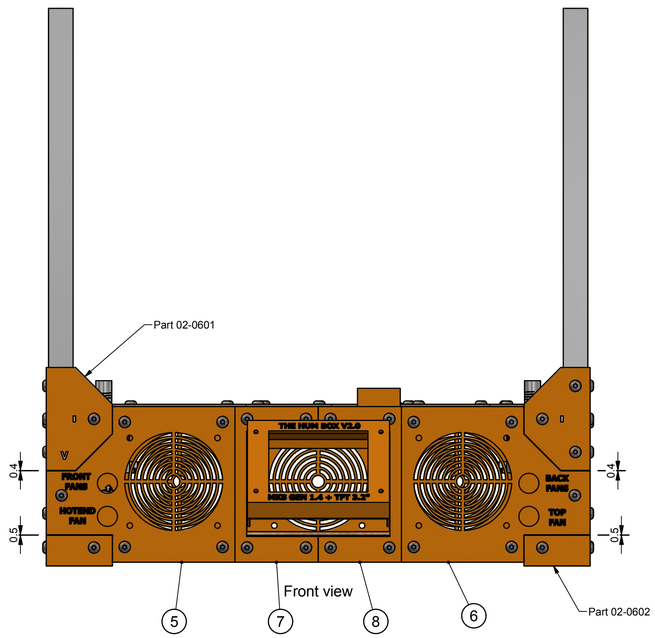
The top closing of the electrical cabinet will be done in a later state.
This will be done after all electronic components have gotten there positions marked and everything is safely connected and tested on heating, cooling fans and movements.

Parts List

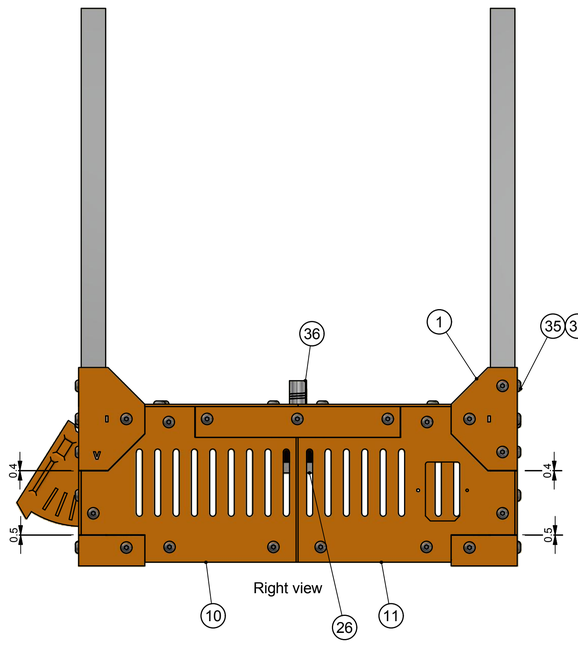
POS.	QTY.	PART NUMBER	DESCRIPTION	MATERIAL
1	4	02-0601	Frame extender 2.0	PLA Plastic
2	4	02-0602	Foot 2.0	PLA Plastic
3	1	02-0603	Cover bottom 2.0	Wood (Birch)
4	2	03-0600	Z-Axis Support Bottom 2.0	PLA Plastic
5	1	05-0600	Cover front left 2.0	PET Plastic
6	1	05-0601	Cover front right 2.0	PLA Plastic
7	1	05-0602	LDC Place Holder LHS 2.0	PLA Plastic
8	1	05-0603	LDC Place Holder RHS 2.0	PLA Plastic
9	1	05-0604	MKS - TFT32 LCD Holder V 2.0	PLA Plastic
10	2	05-0605	Cover Side left 2.0	PLA Plastic
11	1	05-0606	Cover Side right with switch 2.0	PLA Plastic
12	1	05-0607	Cover Side right 2.0	PLA Plastic
13	1	05-0608	Cover back left 2.0	PLA Plastic
14	1	05-0609	Cover back right 2.0	PLA Plastic
15	1	05-0610	Cover back center 2.0	PLA Plastic
16	1	05-0611	Top Cover front left 2.0	PLA Plastic
17	1	05-0612	Top Cover back left 2.0	PLA Plastic
18	1	05-0613	Top Cover front right 2.0	PLA Plastic
19	1	05-0614	Top Cover back right 2.0	PLA Plastic
20	1	05-0615	Top Cover center front 2.0	PLA Plastic
21	1	05-0616	Top Cover center back 2.0	PET Plastic
22	1	05-0617	Top Cover infill at Heat bed Drag Chain 2.0	PLA Plastic
23	1	05-0618	Cable guide (1) 2.0	PLA Plastic
24	1	05-0619	Top Center plate for 200mm fan 2.0	PET Plastic
25	1	05-0620	LCD Flat Cable Guide 2.0	PLA Plastic
26	2	17HS4401	Nema 17 42x42mm stepper motor	
27	4	20x20x1 L=314	Aluminium extrusion	Aluminum 6061
28	4	20x20x1 L=400	Aluminium extrusion	Aluminum 6061
29	4	20x20x1 L=450	Aluminium extrusion	Aluminum 6061
30	24	DIN 934 - M5	Hex Nut	Stainless Steel
32	8	ISO 7380-1 - M3 x 10	Hexagon Socket Button Head Screw	Stainless Steel
33	89	ISO 7380-1 - M5 x 10	Hexagon Socket Button Head Screw	Stainless Steel
34	2	ISO 7380-1 - M5 x 20	Hexagon Socket Button Head Screw	Stainless Steel
35	24	ISO 7380-1 - M5 x 30	Hexagon Socket Button Head Screw	Stainless Steel
36	2		Flexible Threaded Coupler 5-8 mm	Aluminum 6061



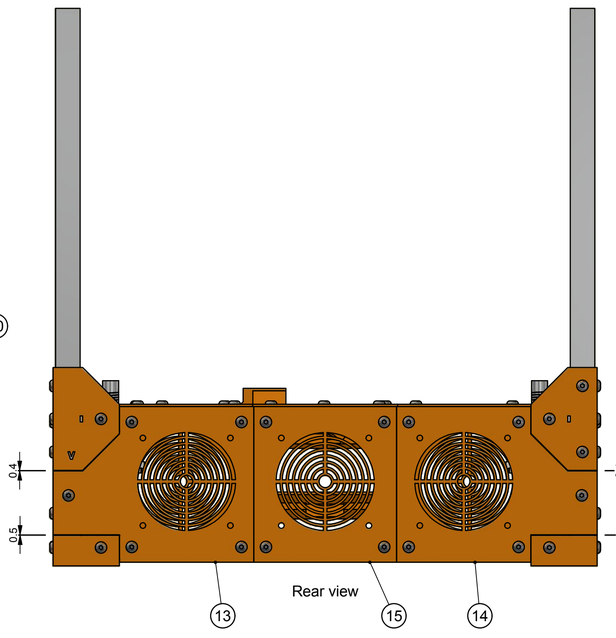
Left view



Front view



Right view



Rear view

	Project: Open source		Dimensions: In mm (U.N.O.)
	Client: 3D Print Creations		Scale: No Scale
	Internal Rev.		Projection
	Created by: 3D_PP	First issue: 29-7-2018	

Description: The HUM Box V2
Electrical Cabinet assembly

For Assembly see: 00-0000

Project no.: Drawing nr.: 3D Printer

Chapter - Sheet nr.: 05-0000

Material:

Prepared by 3D Print Creations CAD Centre (Size - A1) / Sheet 1 of 1