RAISCUBE R2 Install Guide

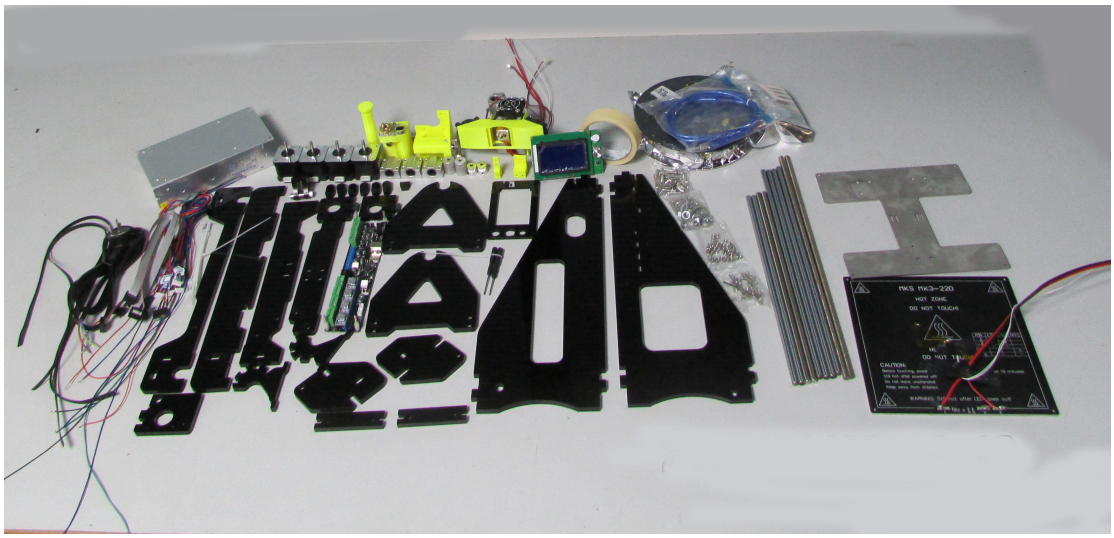
Attention:

1.Please make sure the package not broken when you receive it.

2.Please check the printer parts according to the packing list.

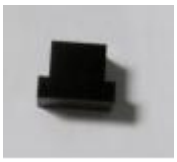
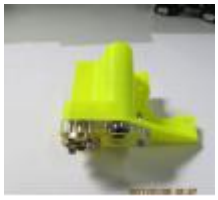
3.Please contract your supplier if any questions.

Packing List of RAISCUBE R2 3D Printer.

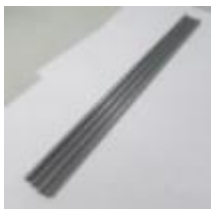


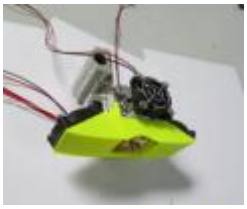
NO.	QTY	NAME	PICTURE	NO.	QTY	NAME	PICTURE
1	1	Left Support Plate		34	1	Power Supply	
2	1	Right Support Plate		35	3	End-stop	
3	1	Front Plate		36	1	1.5m USD Wire	
4	1	Middle Plate		37	2	Screen Flat Cable	
5	1	Back Plate		38	1	1.5m Power Line	

6	6	Vertex		39	5	Motor Connection Wire	
7	2	Top Loct Plate		40	4	Stepper	
8	1	Y Axis Bearing Support		41	2	Power & Motherboard Wire	
9	2	Z-Axis Motor Fixed Plate		42	1	SD Card	
10	2	Screen Support Plate	 	43	15	Zip Tie	

11	1	Y Axis Support Plate		44	60(a1)	M3X20 Screw	
12	1	Y Axis Motor Gasket		45	60(a2)	M3 Nut	
13	1	Filament Rack		46	6(b)	6mm threaded Rubber Nut	
14	1	Frame Beam Plate		47	6(b)	3mm Threaded Rubber Nut	
15	1	Screen Trim		48	3(b)	Wrench	
16	1	Left Z-Axis Link Block		49	12(b)	M3X12 Screw	

17	1	Right Z-Axis Link Block.		50	3(b)	M3X8 Screw	
18	1	Z Axis End-Stop		51	6(b)	M2.5X15 Screw	
19	1	X Axis End-stop		52	6(b)	M2.5 Nut	
20	1	Filament Rack Roller		53	12(c)	M8 Nut	
21	2	355mm Rod		54	12(c)	M8 Gasket	
22	2	350mm Threaded Rod		55	9(c)	M4X5 Screw	

23	4	390mm Rod		56	4(c)	M3X30 hotbed screw	
24	2	420mm Threaded Rod		57	4(c)	Wing Nut	
25	2	Flexible Coupling		58	4(c)	Hotbed Spring	
26	2	Synchronous Pulley		59	2	Mini ScrewDriver	
27	2	Belt		60	1	Cut	
28	1	"H" ss Plate		61	1	0.5kg filament	

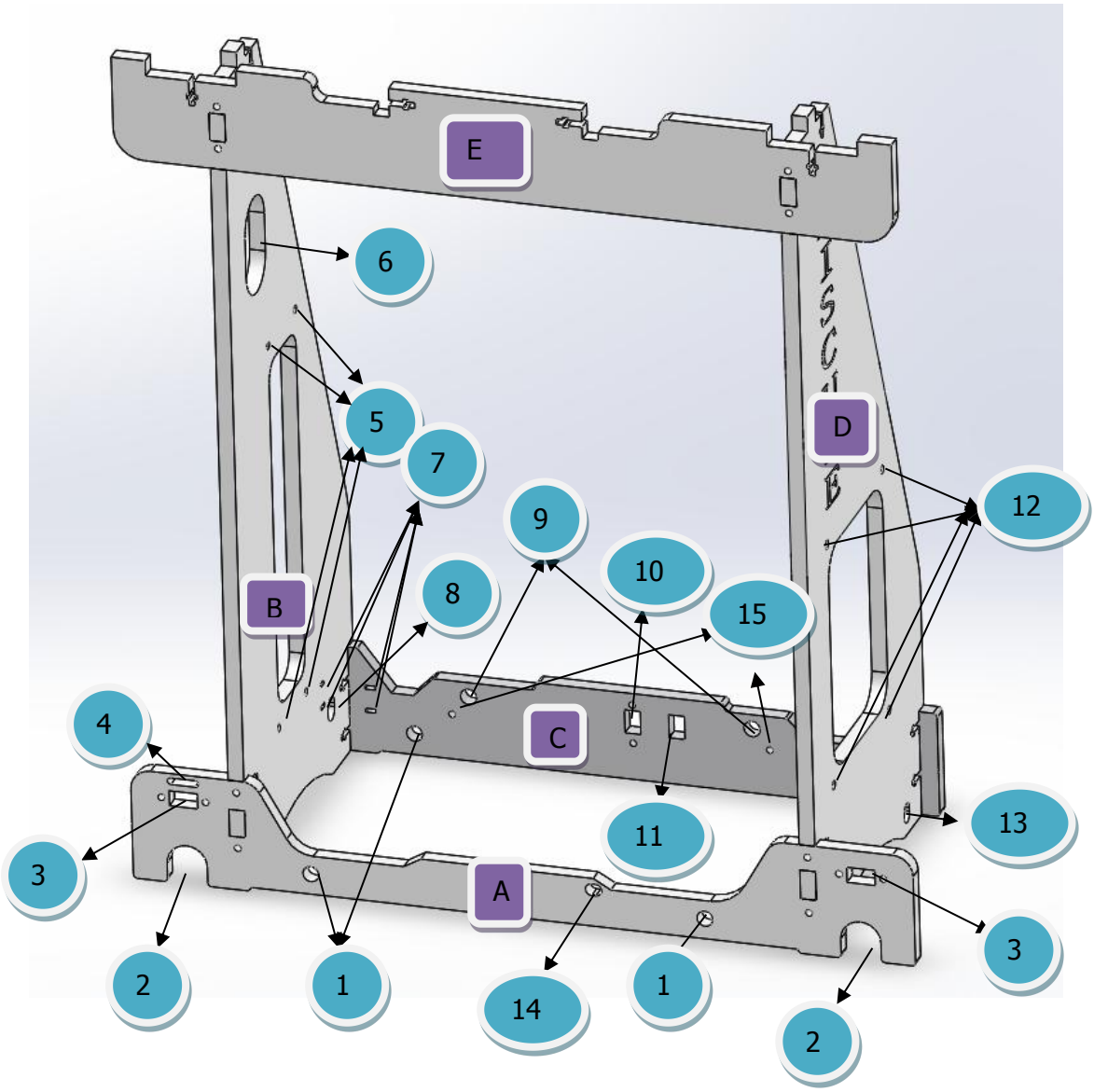
29	1	Extruder		62	1	Masking Paper Roll	
30	3	Linear Bearing		63	1	4.5m Winding Pipe	
31	1	Hotbed Aliminium Plate		64	1	Spade	
32	1	12864 Screen Pannel		65	1	SD Card Reader	
33	1	Main Mother Board					

To make sure your 3d printer own a higher printer quality, please read our manual carefully. Follow the steps, you can assemble the 3d printer easily. Pay attention to that the screw, you should tighten them after each step.

Step 1 : Install the frame of printer.

The picture show every function of each hole in the frame. You can wire accord to the picture.

What's more, it's important to note the DIRECTION and POSITION of each plate except plate "E".



A:Middle Plate B:Left Support Plate C:Back Plate

D: Right Support Plate E:Frame Beam Plate

1:420mm Threaded Rod hole

2:Z motor wire grommets

3:Z-Axis Motor Fixed Plate hole

4:Z-Axis Stop hole

5:Main Mother Board hole

6:Extruder and 12864 Screen Panel wire grommets

7:Zip Tie beam line hole

8:wire grommets

9:390mm Rod hole

10:Y Axis Support Plate hole

11:Y Axis Motor Gasket hole

12:Power Supply hole

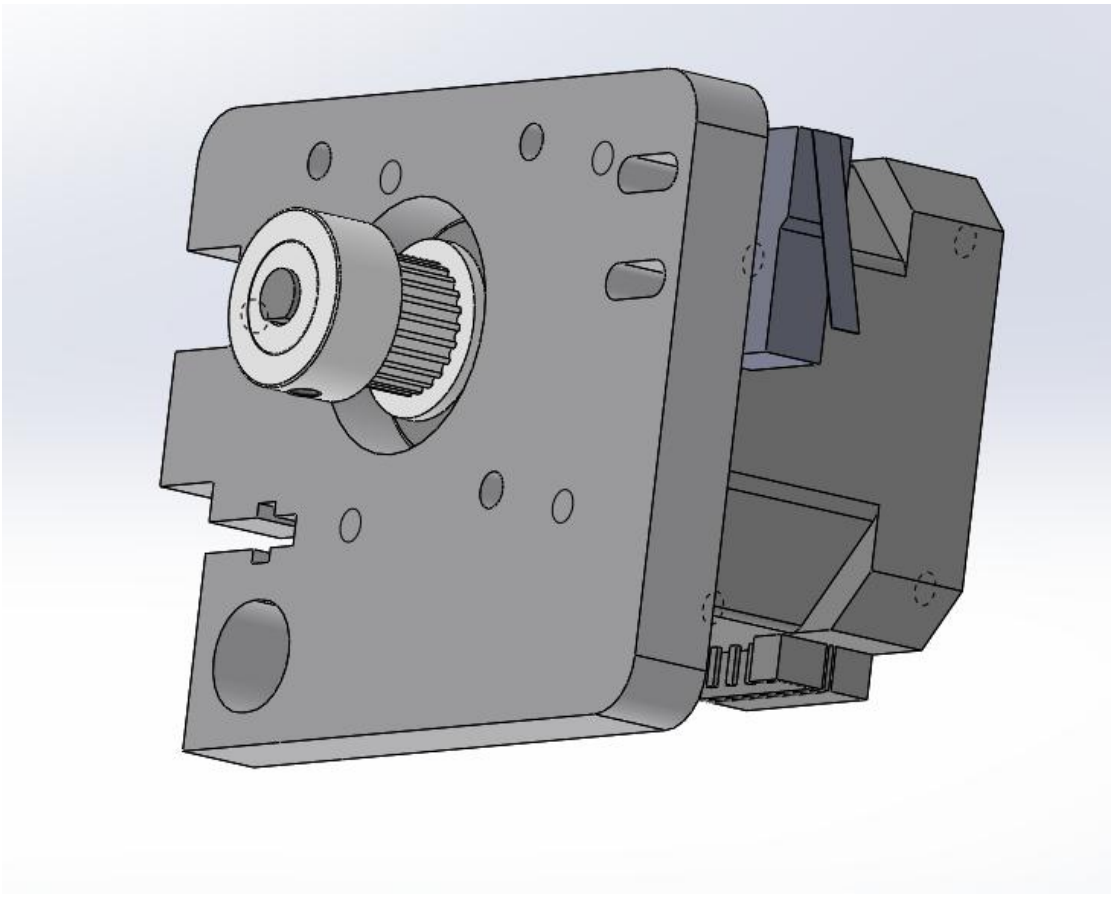
13:wire grommets

14:Hotebed Plate wire grommets

15:vertex hole

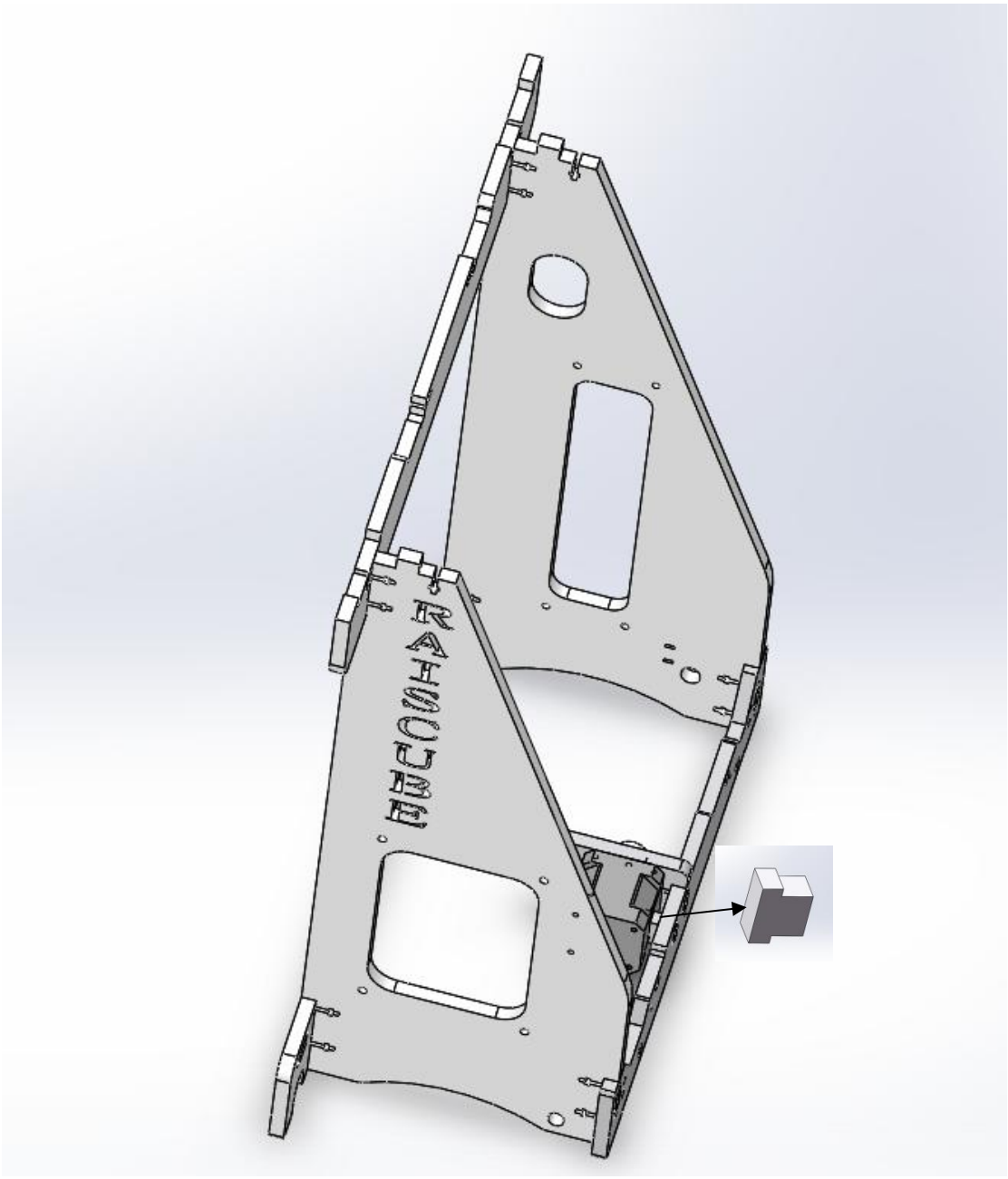
Step 2 : Assemble the module of Y motor.

Pease notice the right direction/position of Y Axis Motor Support Plate and Motor Wire Plug shall face down.

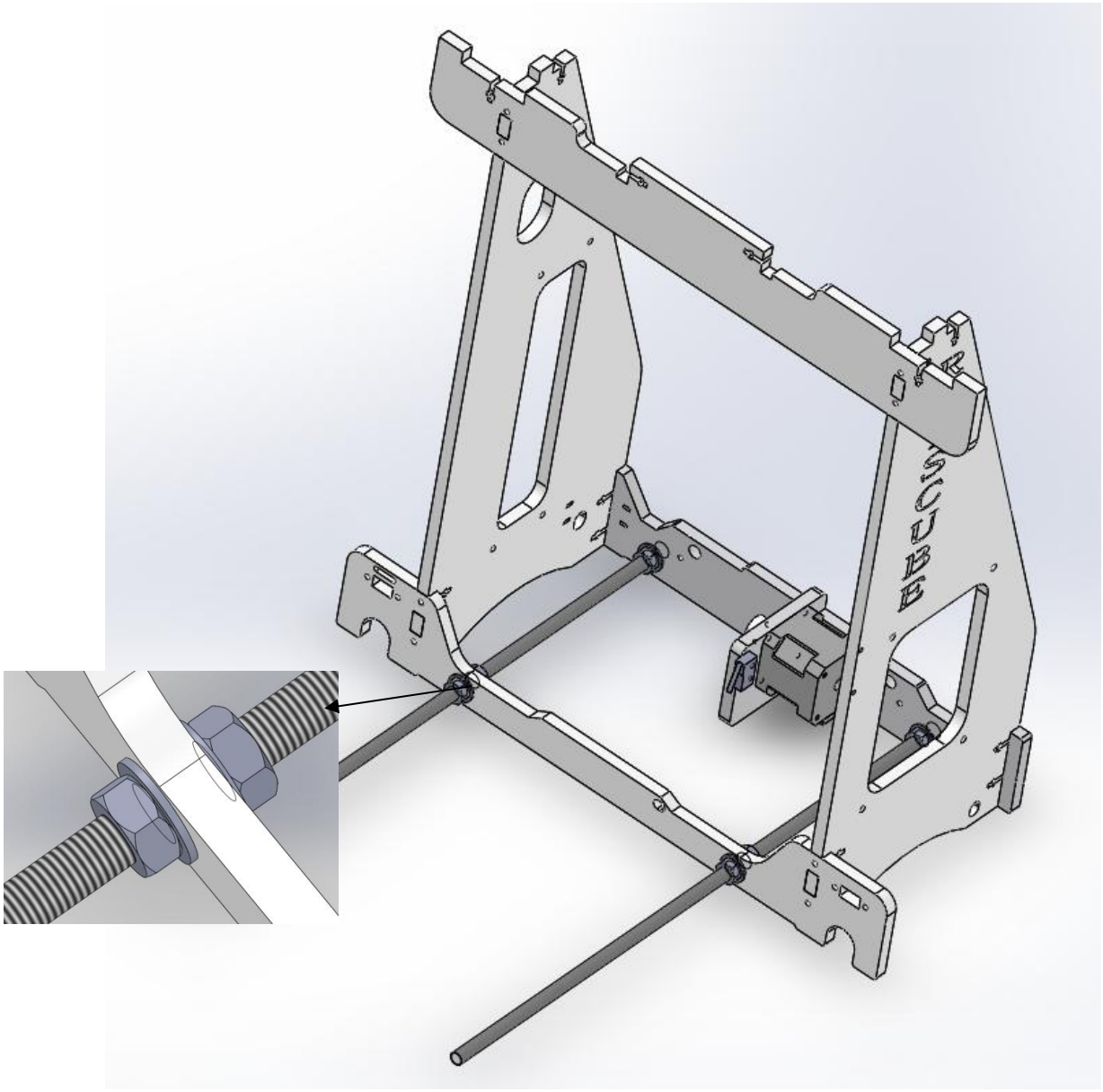


Step 3 : Add Y-stepper module into the frame base.

Please do remember to add the Y Axis Motor Gasket.

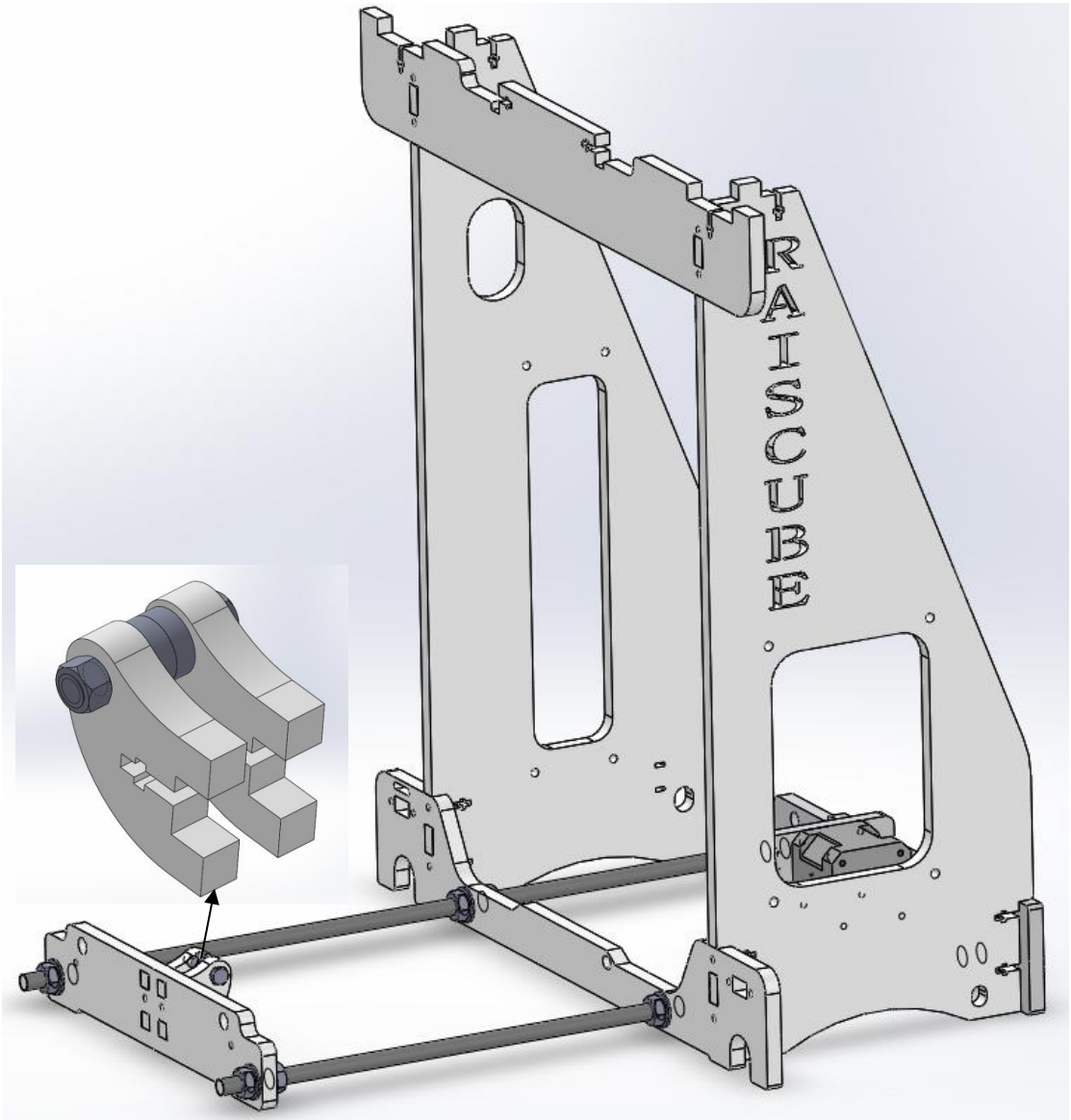


Step 4 :Insert and screw two 420mm Threaded Rods through frame base.



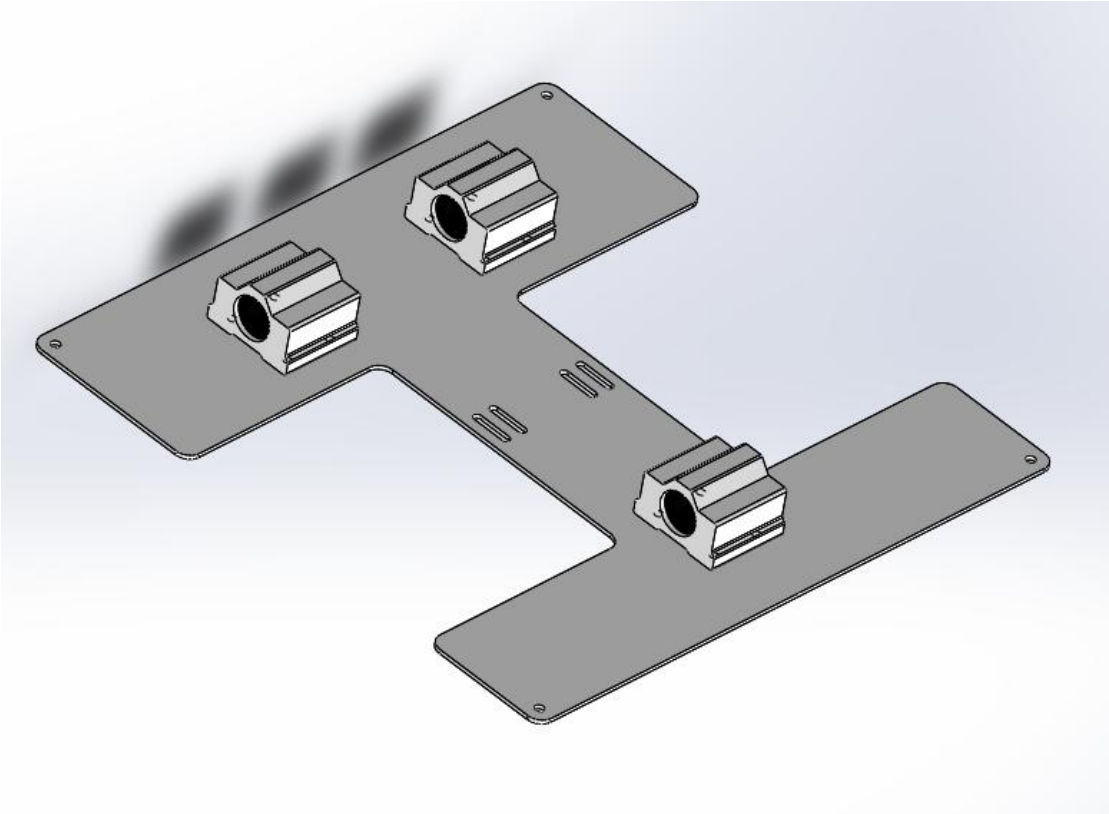
Step 5: Add front plate module into the frame.

Please remain approximate 1mm free offset distance for rollers of "Y Axis Bearing Support" the two.



Step 6 : Assemble “H" SS Plate

Add the Linear Bearings into the “H” SS Plate, Tighten the nuts slightly.



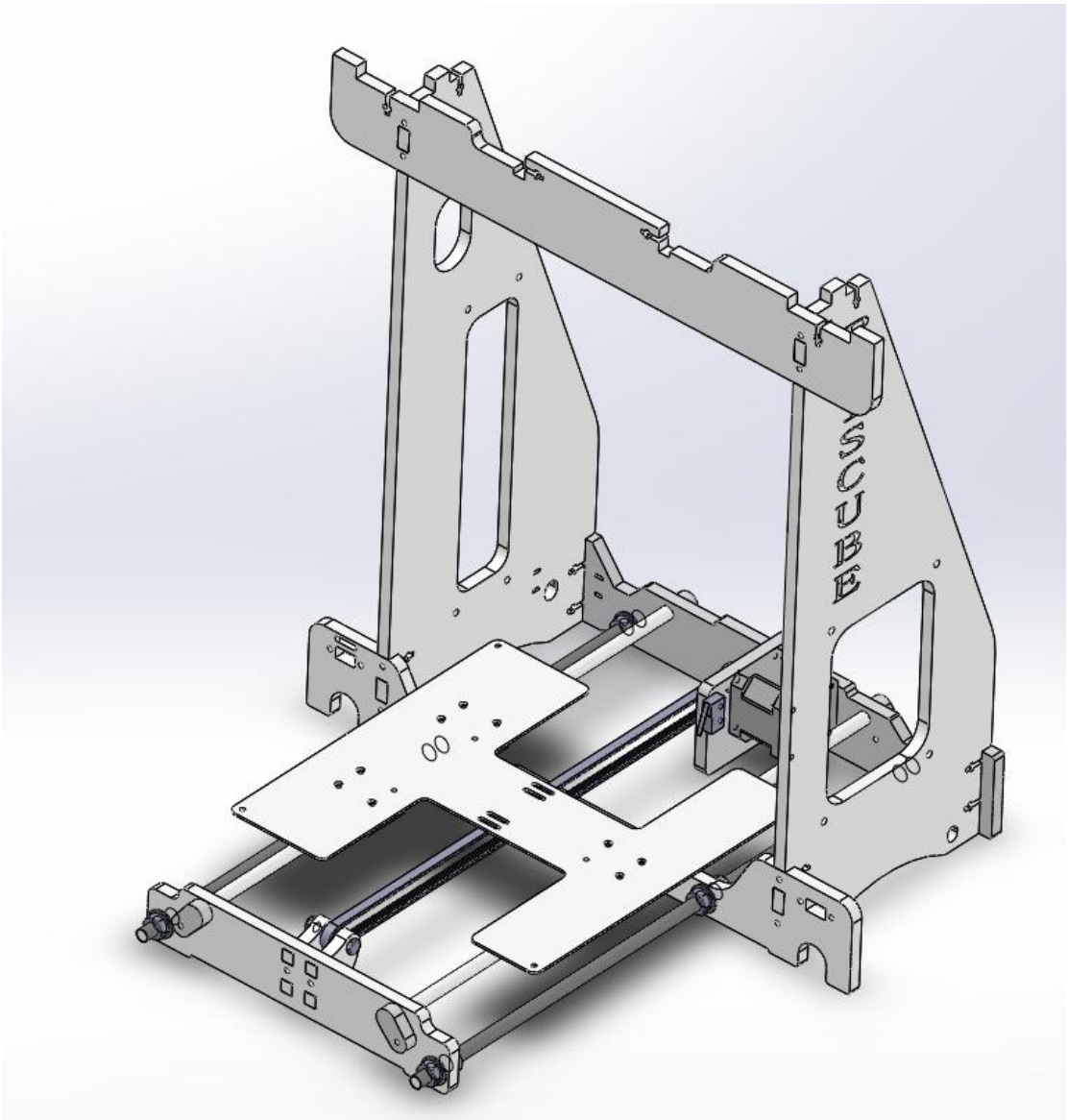
Step 7 : Complete the remain parts of Y motion module .

Use the 390mm rods pass through the Front Plate, the Linear Bearings and the Back Plate.

Slide the "H" SS Plate, if it moves smoothly, then be ok and tighten the nuts.

Install Y-motion belt. Bind one side of Y-belt (belt teeth down) to inner side of "H" SS plate with zip-tie, and wrap on Y Axis Synchronous Pulley and the Y Axis Bearing Support, then bind the other belt side to outer side of "H" holes with zip-tie. (For a more clearer understanding, please check videos).

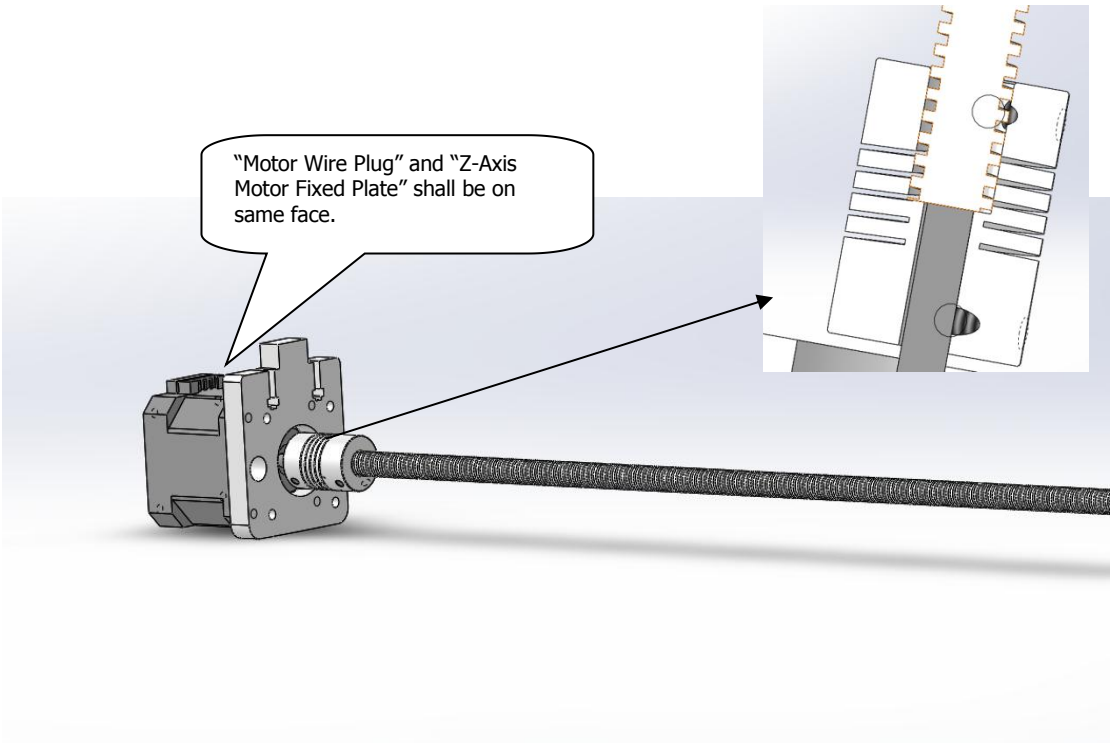
After finishing the above steps, add the Vertexes onto the Front plate and the Back plate.



Step 8 : Assemble double Z motor modules

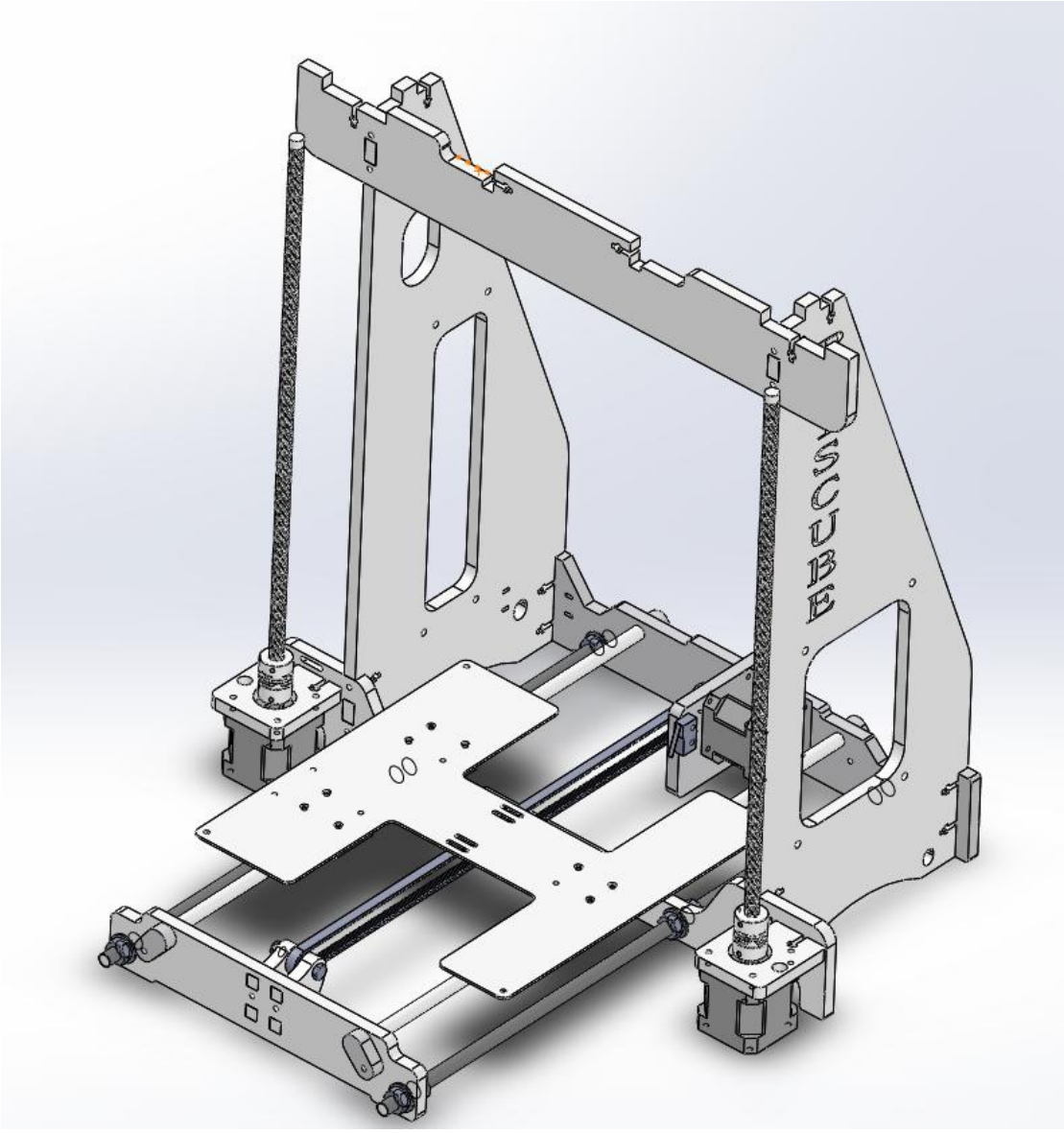
There are two Z motor modules and there are different with each other which can be distinguished from the position of the hole in the Z-Axis Motor Fixed Plate.

Please note that Motor Wire Plug shall face up as pix.



Step 9 : Add double Z motor modules into the frame.

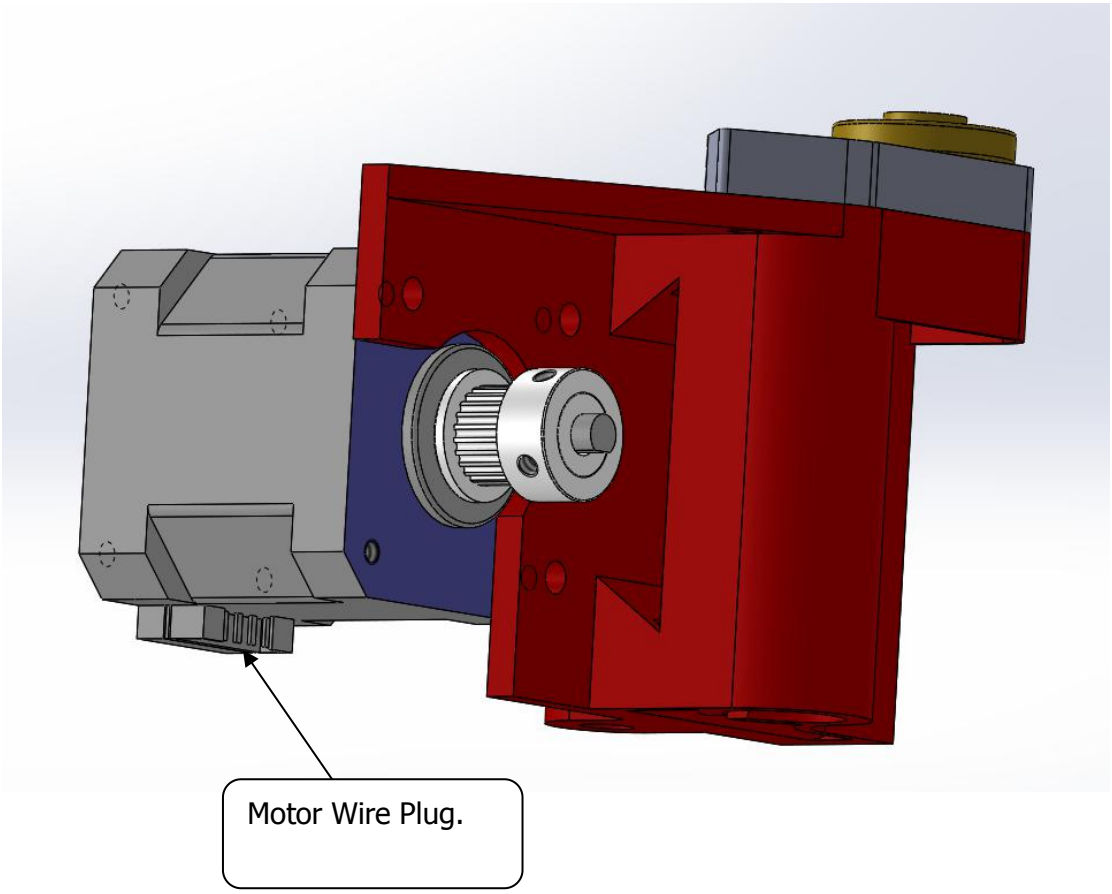
Please notice that the direction of the holes in the Z-Axis Motor Fixed Plates.



Step 10 : Assemble the left block module

Please notice that Motor Wire Plug shall face down as pix.

The distance from the end face of the Synchronous Pulley to the end face of the motor axis end face is about 7mm .

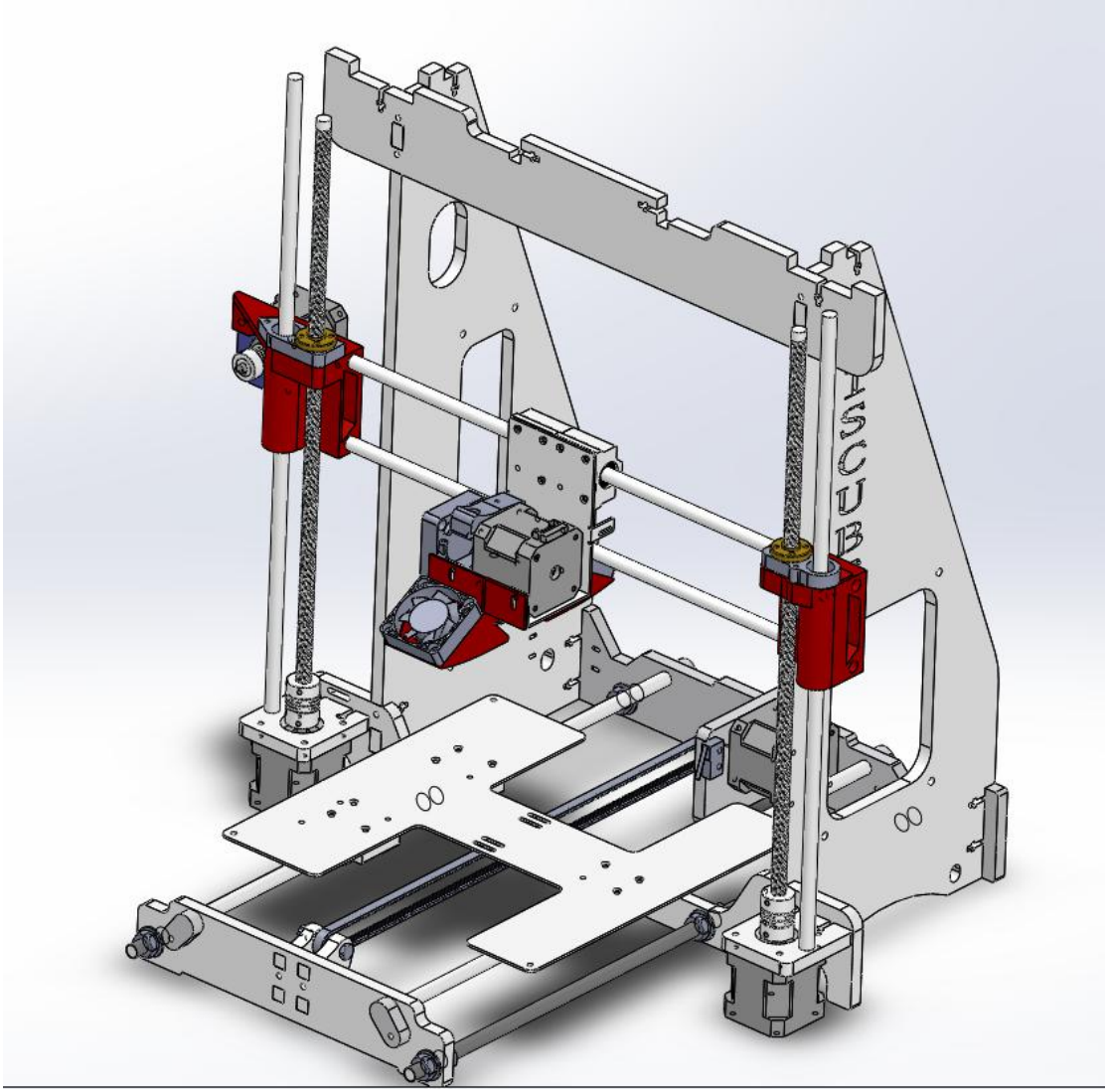


Step 11: Add the left block ,the right block ,the extruder module , two 350mm rods and two 390mm rods into the frame.

At first , assemble Left-Axis Link Block , two 350mm rods ,extruder module and Right Z-Axis Link Block.

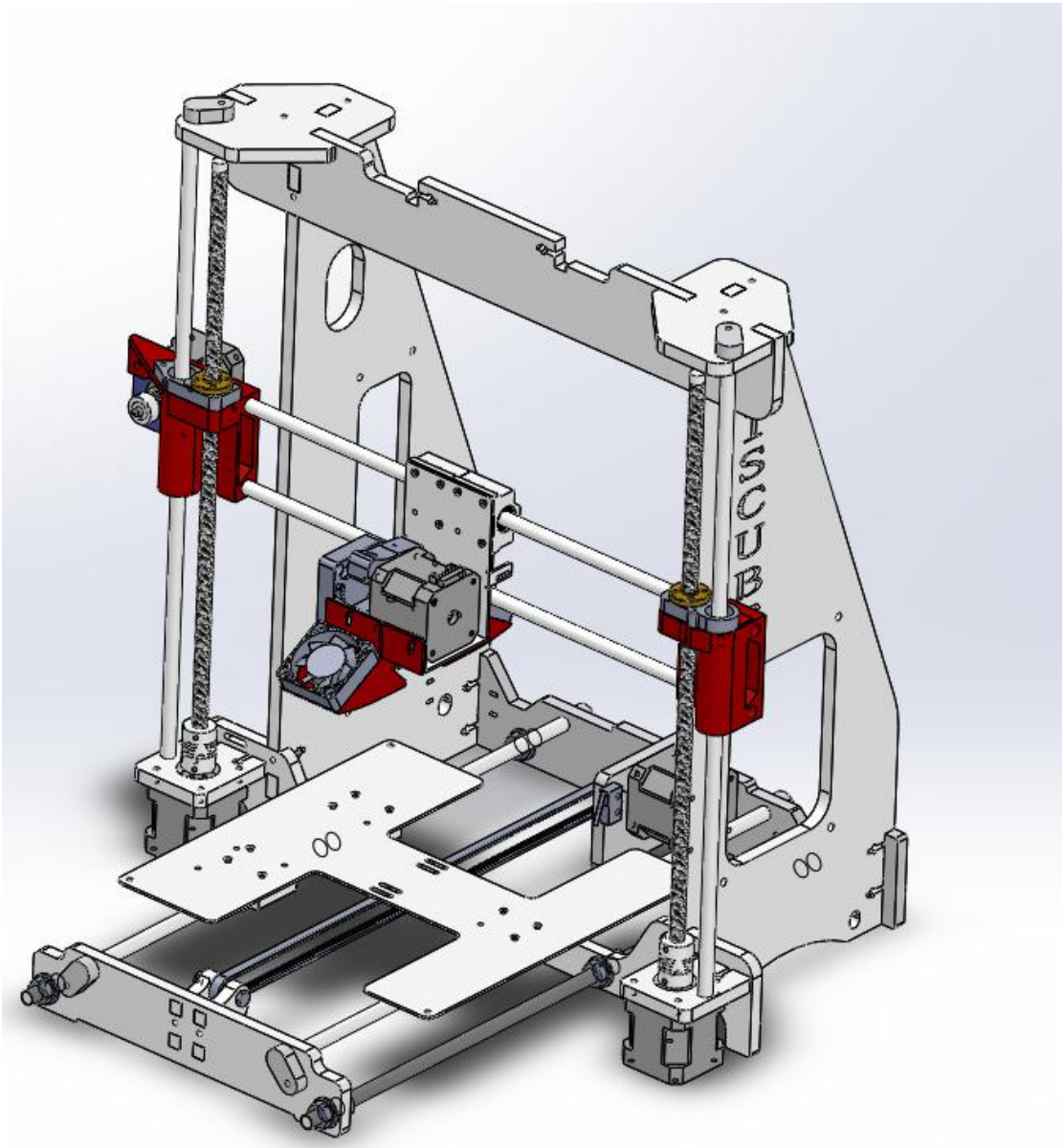
Then put the assembly into the frame by the 350mm Threaded Rod

At last ,put the 390mm rods pass through the Link Blocks.

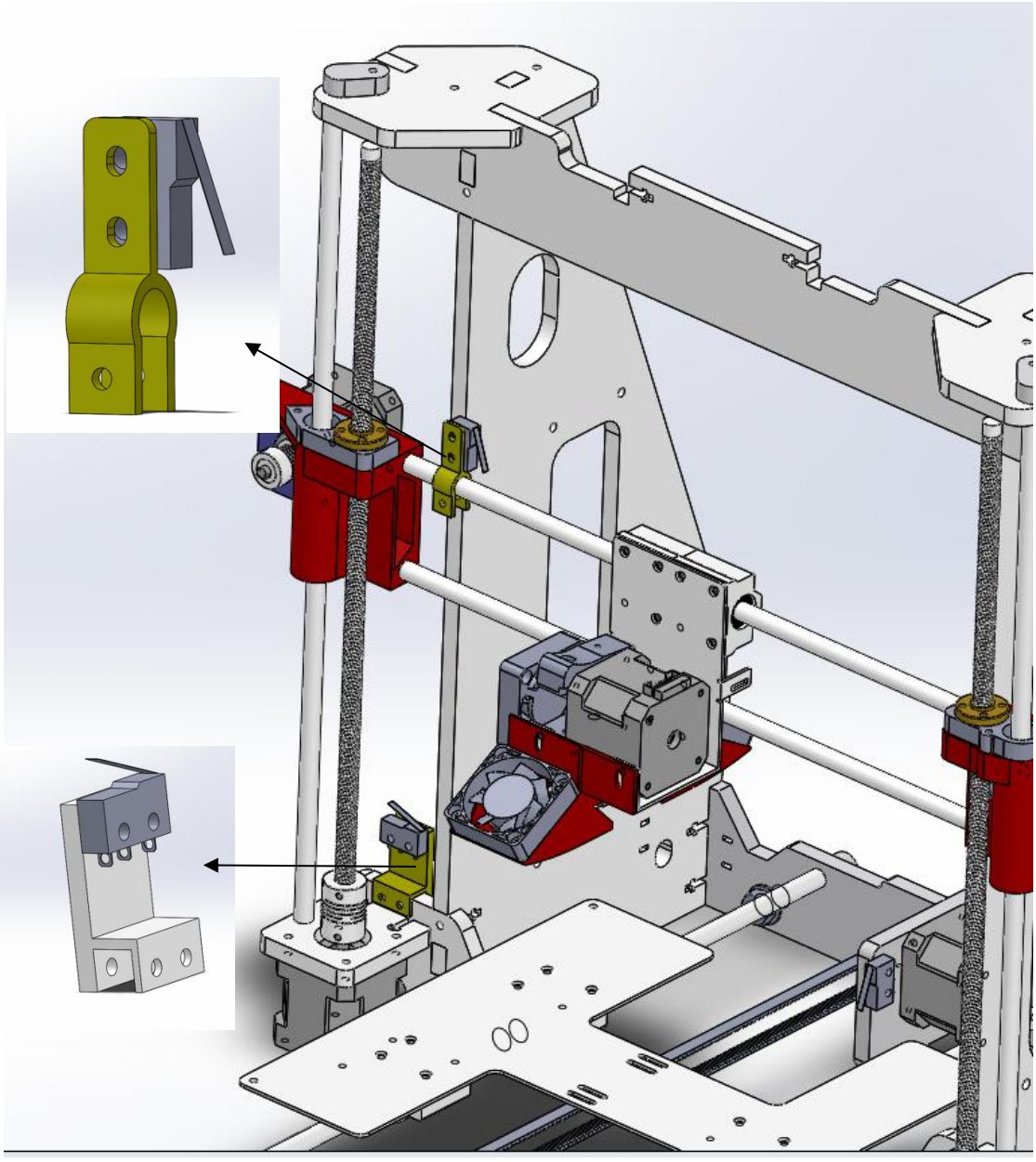


Step 12 : Add Top Lock Plate and vertexes into the frame

If you feel that the Top Lock Plate is difficult to add ,try to tap the Link Block slightly.

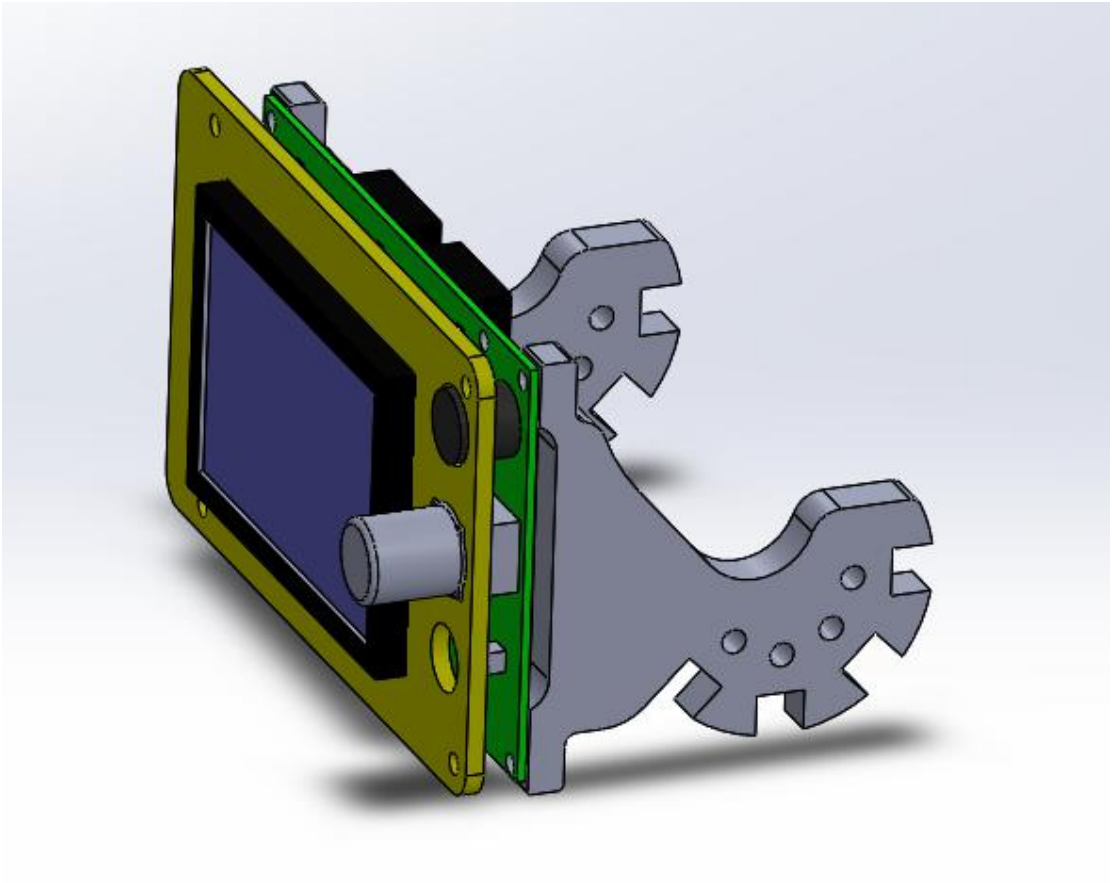


Step13 : Assemble X Axis End-Stop and Z Axis End-Stop, then add them into frame.



Step 14 :Assemble display module

Please notice that the 12864 Screen Panel need add Threaded Rubber Nut between its cover and PCB Plate.



Step 15 : Last Step ,Add remain part into the frame ,and now you have finished the assembly of the printer

Add MotherBoard, power supply, Display module and X-belt to the frame refering previous steps.