

# Venture XL

## Installation and Operation Instruction

★ Please refer to this guide to complete the installation of this device.



We build space shuttles with gardening tools  
so anyone can have a space shuttle of their own.



Before you begin on your journey, a word of caution.

In the comfort of your own home you are about to assemble a robot. This machine can maim, burn, and electrocute you if you are not careful. Please do not become the first Venture fatality. There is no special Reddit flair for that.

Please, read the entire manual before you start assembly. As you begin wrenching, please check our Discord channels for any tips and questions that may halt your progress.

Most of all, good luck!

**REPORTING ISSUES**

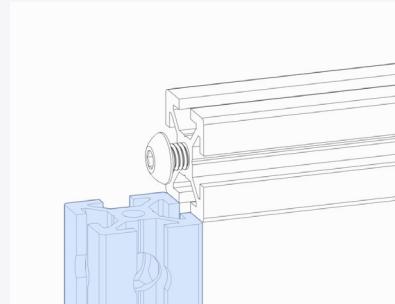
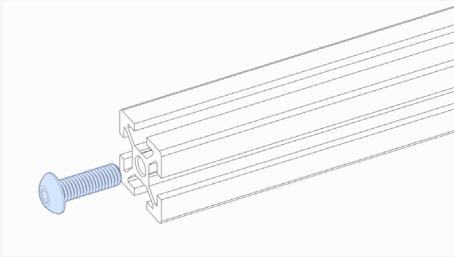
Should you find an issue in the documentation or have a suggestion for an improvement please consider opening an issue on GitHub ([https://github.com/FYSETC/Venture\\_XL](https://github.com/FYSETC/Venture_XL)). When raising an issue please include the relevant page numbers and a short description; annotated screenshots are also very welcome. We periodically update the manual based on the feedback we get.

**THIS IS JUST A REFERENCE**

This manual is designed to be a simple reference manual. Building a Venture\_XL can be a complex endeavour and for that reason we recommend downloading the CAD files off our Github repository if there are sections you need clarification on. It can be sometimes be easier to follow along when you have the whole assembly in front of you.



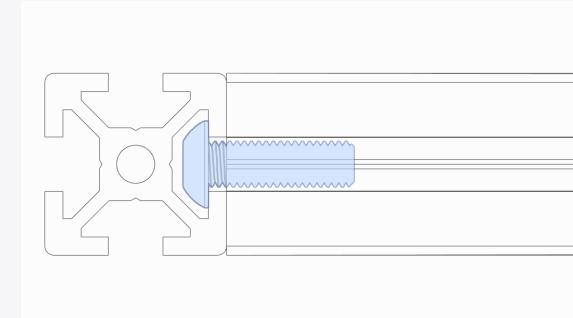
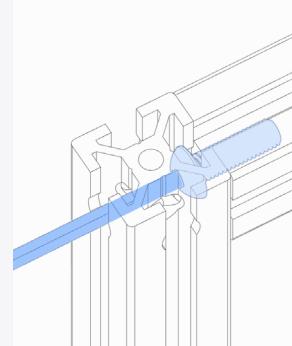
[https://github.com/FYSETC/Venture\\_XL](https://github.com/FYSETC/Venture_XL)



### BLIND JOINT BASICS

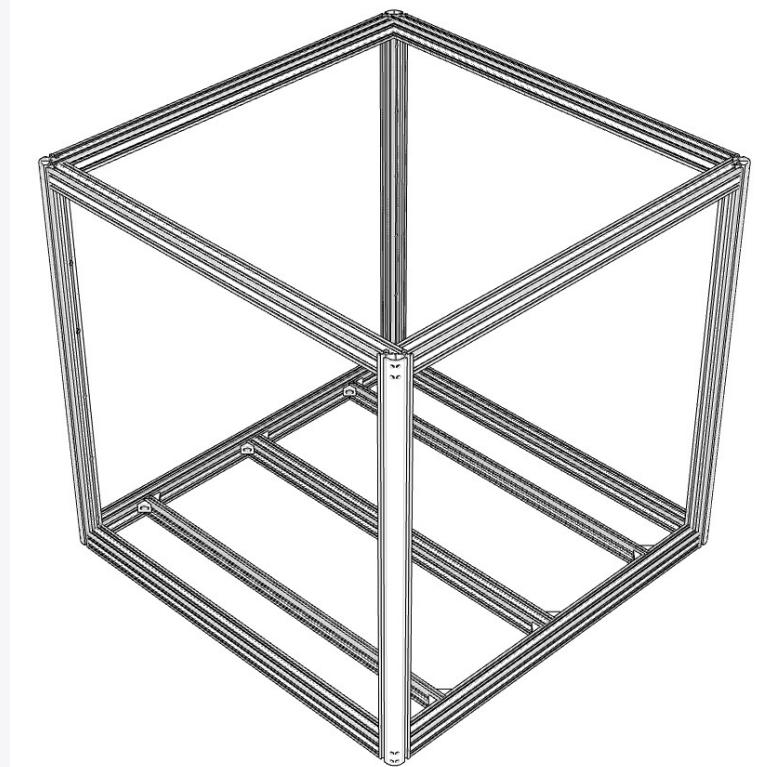
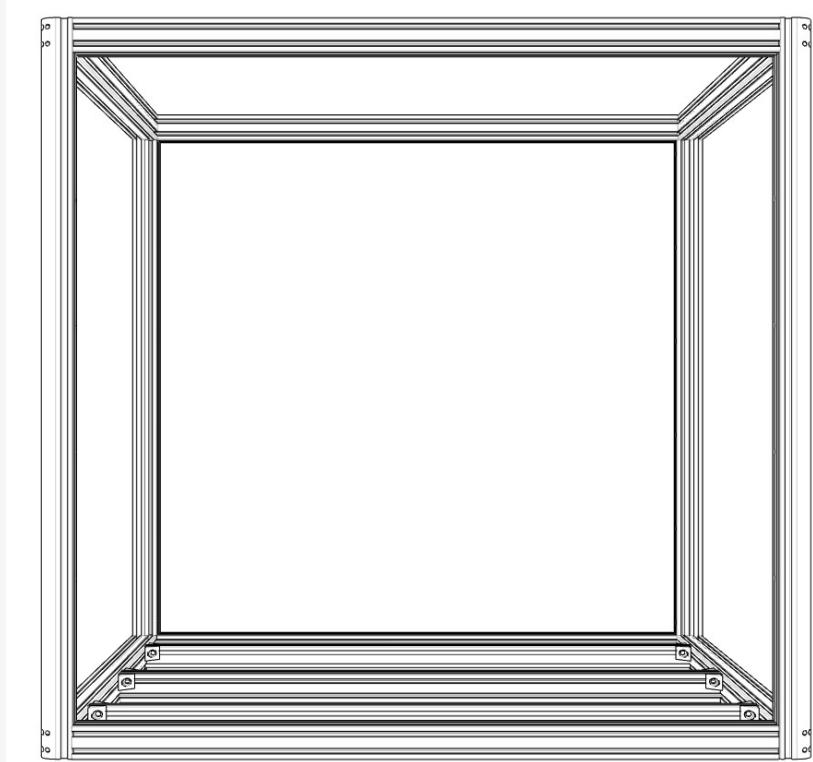
Blind Joints provide a cost effective and rigid assembly method.

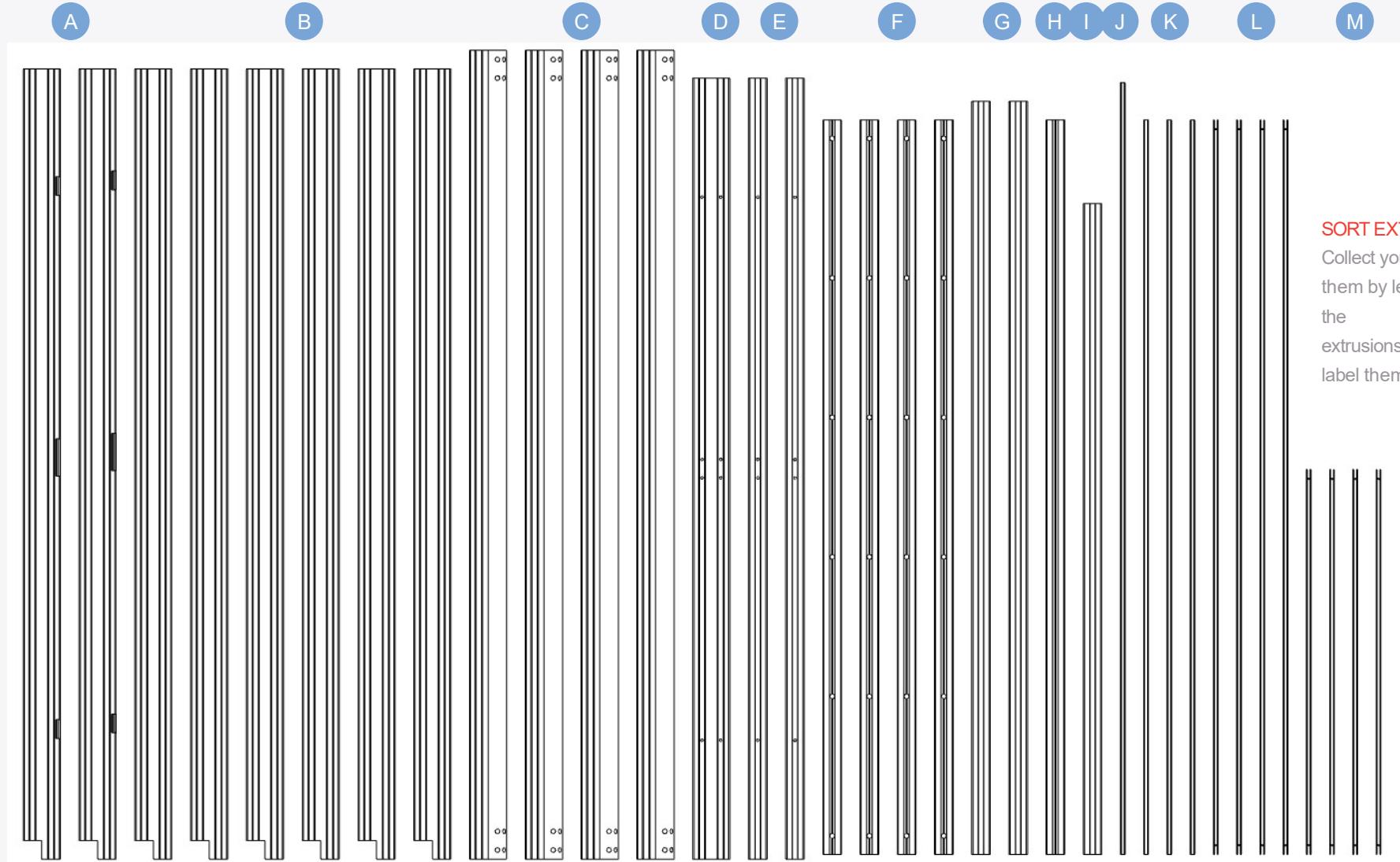
The head of the BHCS is slid into the channel of another extrusion and securely fastened through a small access hole in the extrusion.



FRAME

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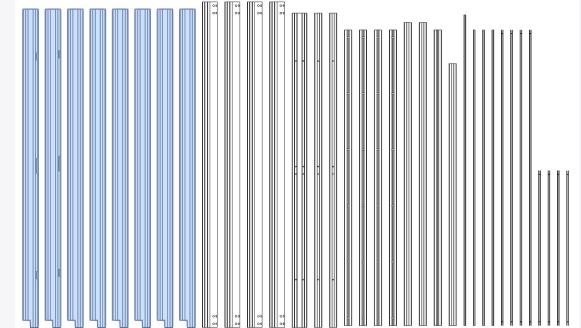


**SORT EXTRUSIONS**

Collect your extrusions and sort them by length. We will highlight the extrusions used in each step and label them as shown on this page.

## FRAME

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### PREPARE 8 EXTRUSIONS

- Prepare the first 8 aluminum profiles that will be used in this section;
- Prepare them as shown above, screw the 6Pcs M5x12 BHCS into the aluminum profile, do not tighten.

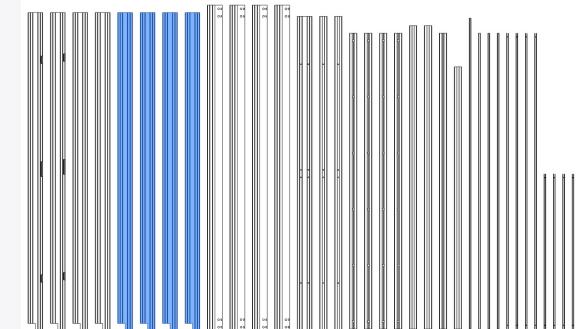
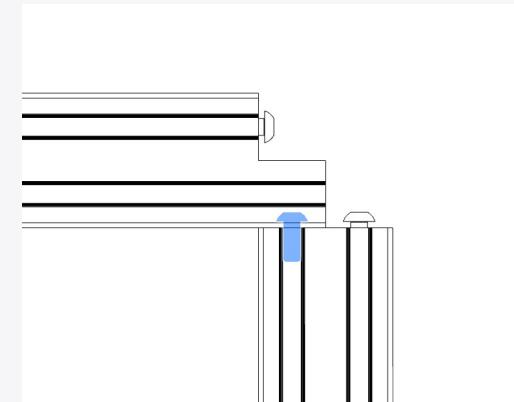
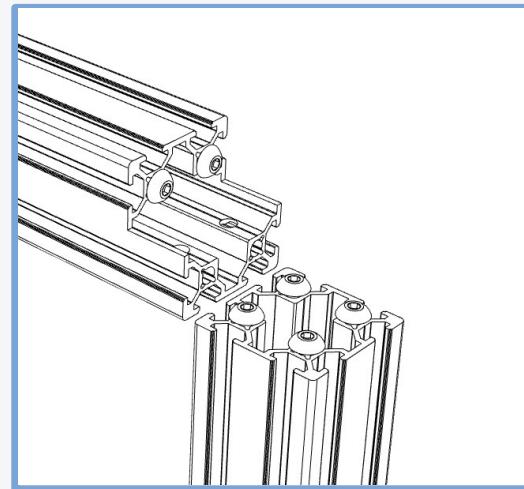
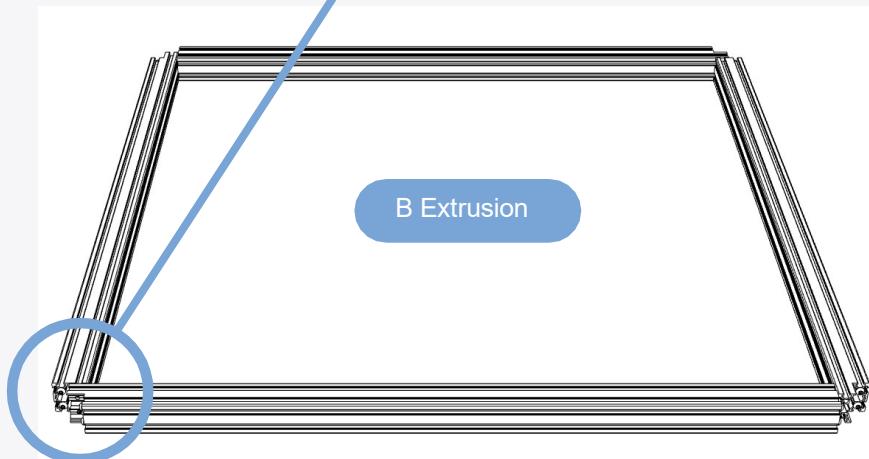
## FRAME

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### FRAME ASSEMBLY

This design relies on blind joints to assemble the frame. We outlined the basics of blind joints on page 4.

More tips on how to assemble a frame are linked below.



### BUILD ON A FLAT SURFACE

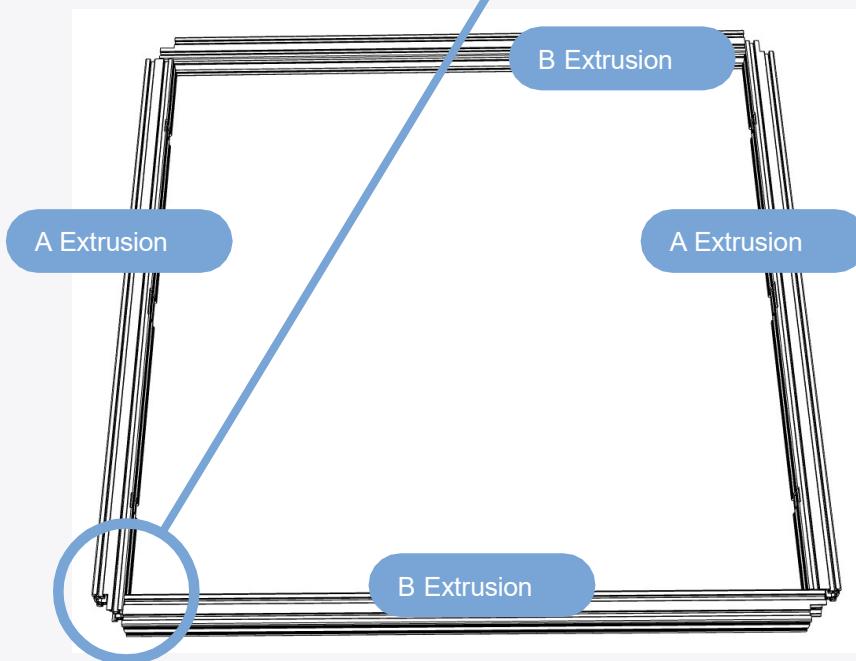
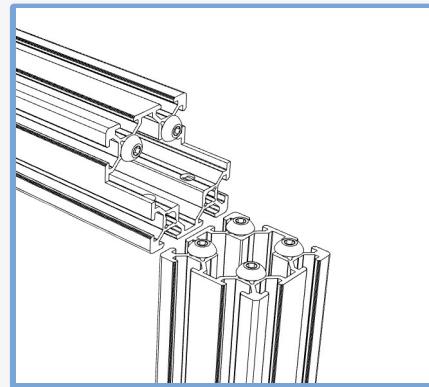
- Build the frame on a flat surface (build the frame on glass or granite surface) to ensure you get as flat and square a frame as possible;
- Take out the 4 pieces shown in the picture from the 8 profiles assembled earlier, connect them end to end, with the end faces facing outwards, and tighten the screws.

## FRAME

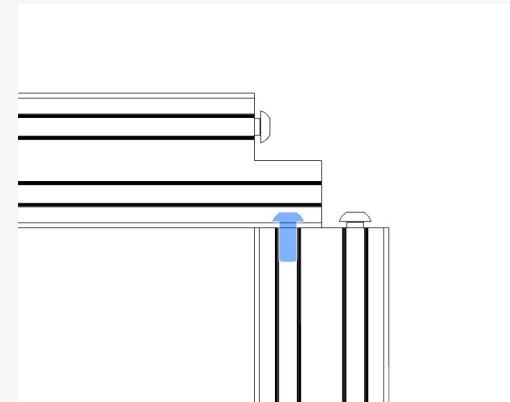
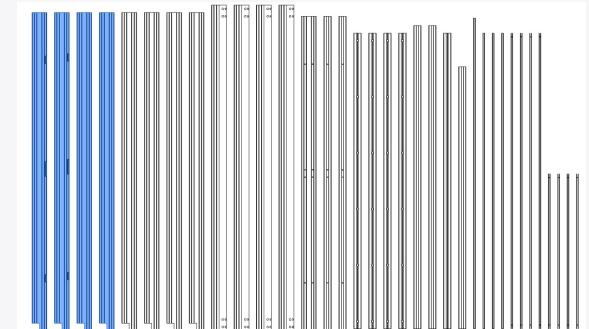
### FRAME ASSEMBLY

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More tips on how to assemble a frame are linked below.



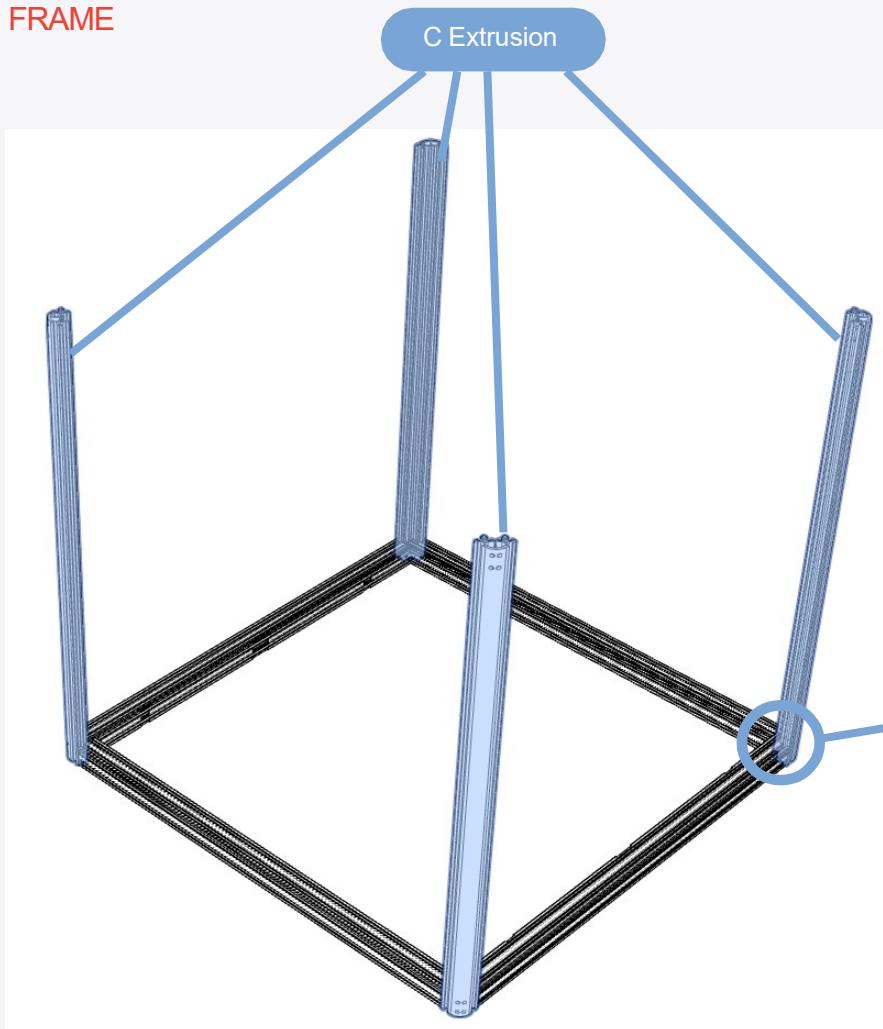
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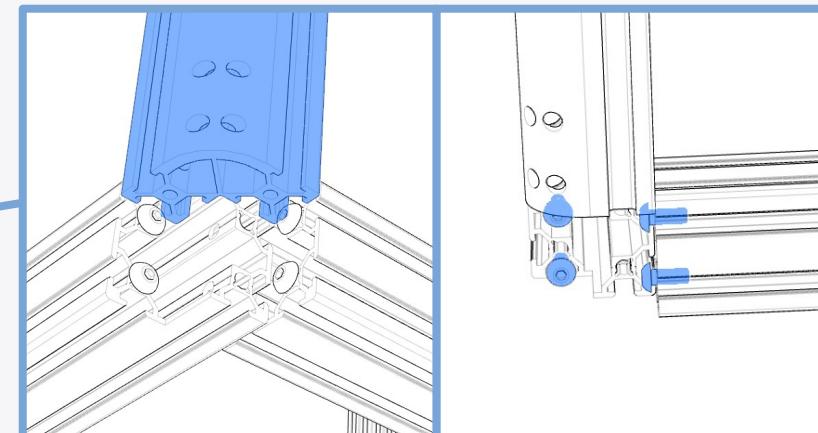
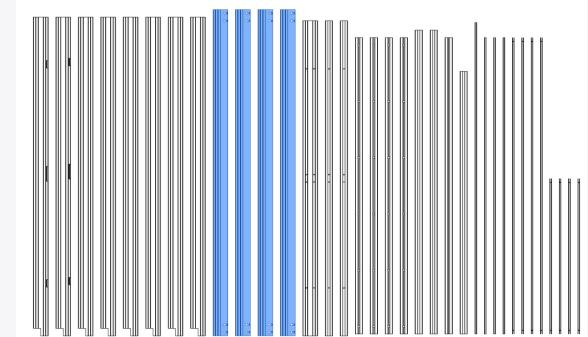
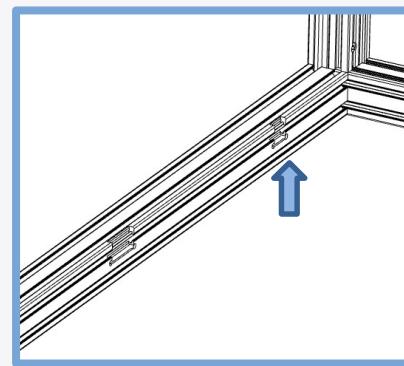
### BUILD ON A FLAT SURFACE

- From the 8 aluminum profiles assembled earlier, take out the 4 pieces shown in the picture, connect them end to end;
- Repeat the previous work.

## FRAME



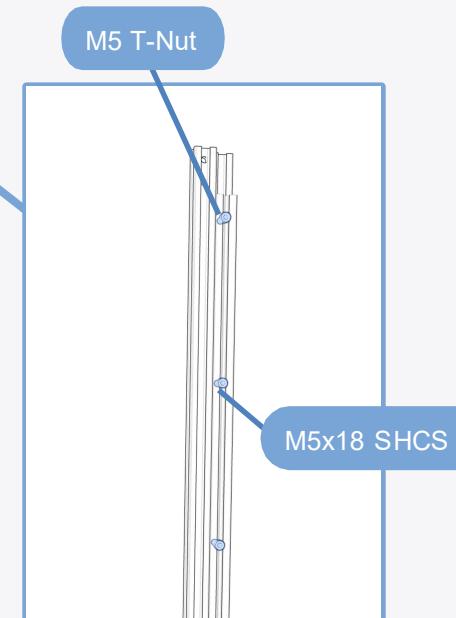
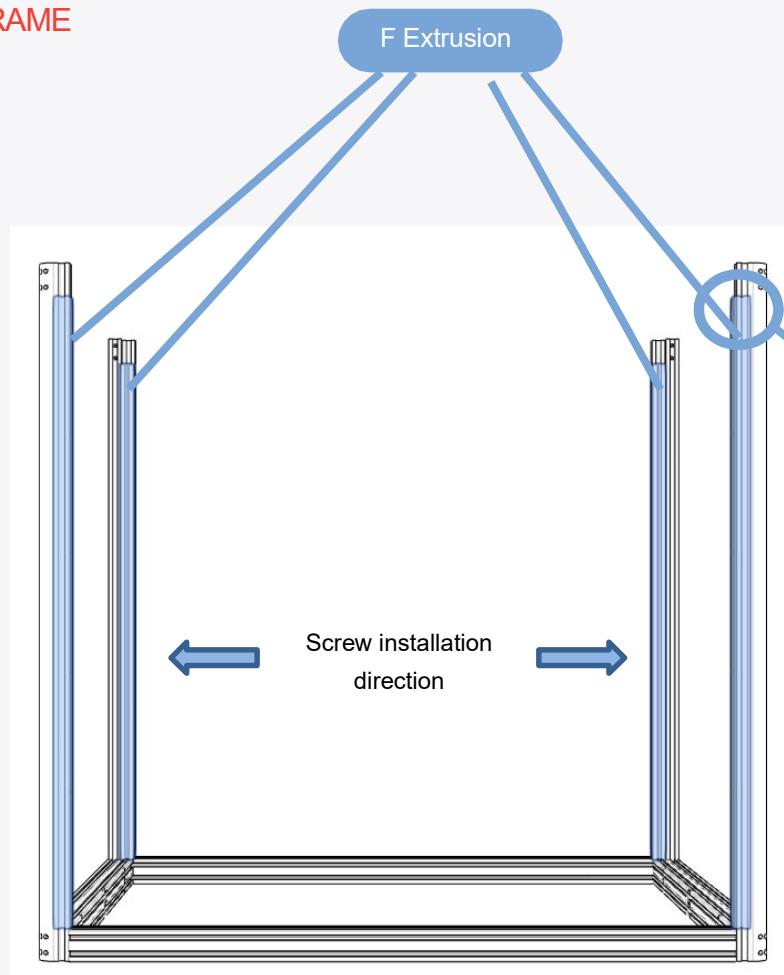
[WWW.FYSETC.COM](http://WWW.FYSETC.COM)



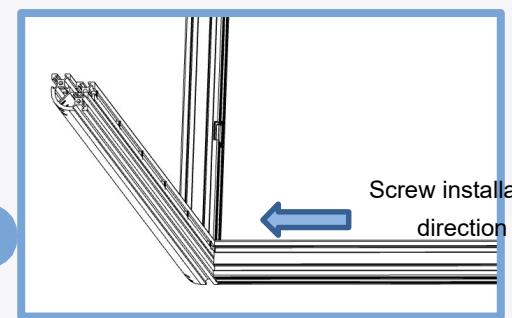
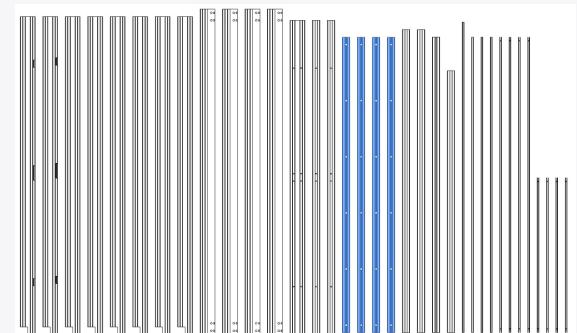
## BUILD ON A FLAT SURFACE

- Take out the 4 aluminum profiles shown in the picture and insert them into the assembled profile base from top to bottom;
- The notch of the bottom assembled profile faces upward, the arc surface of the four columns faces outward, and tighten the screws.

FRAME



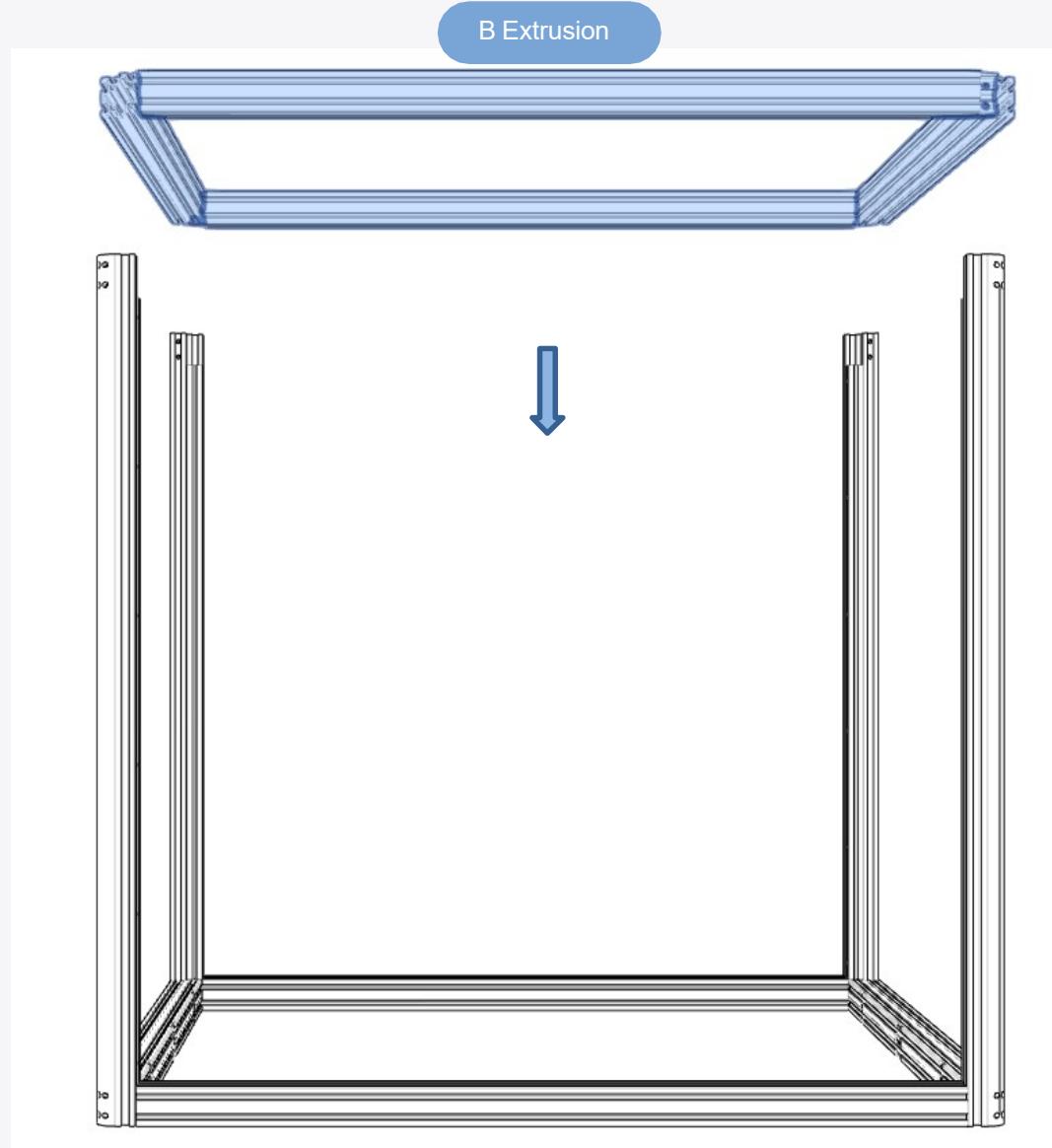
[WWW.FYSETC.COM](http://WWW.FYSETC.COM)



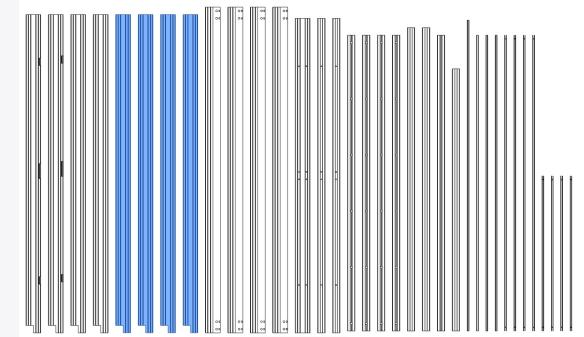
#### BUILD ON A FLAT SURFACE

- First install the M5 ball nut on the 2020R profile;
- Take out the 4 aluminum profiles shown in the picture, place them on the base, and tighten the screws.

## FRAME



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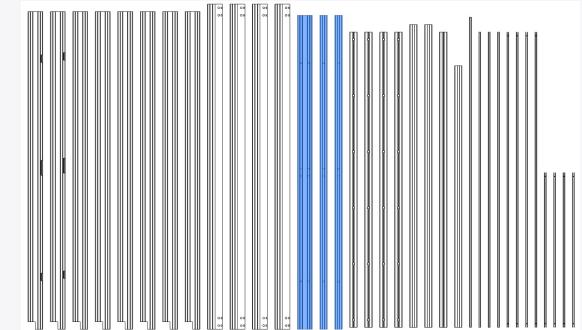
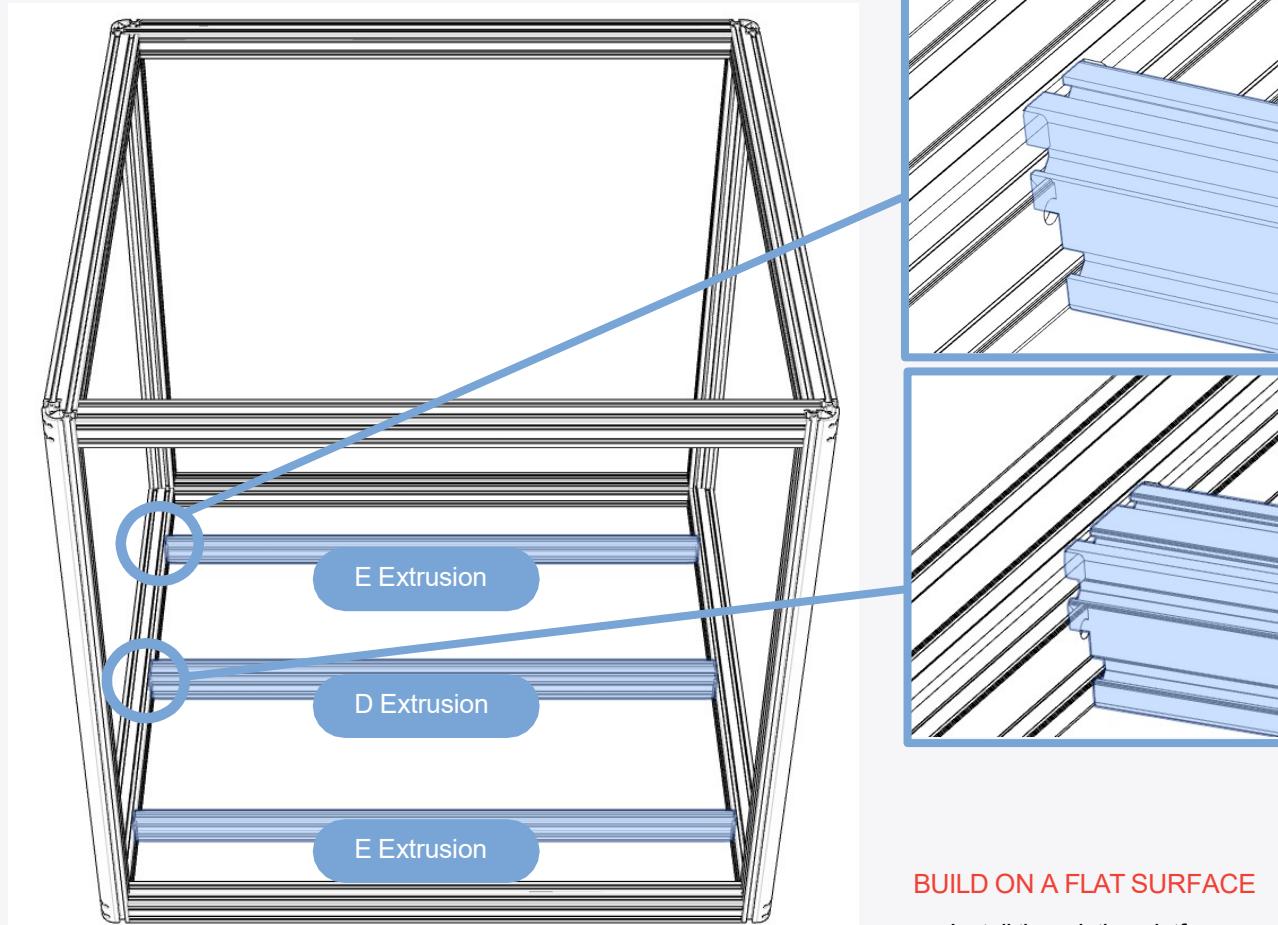


## BUILD ON A FLAT SURFACE

- Install the previously assembled frame on the upper part, seal the top, and tighten it with screws from the holes around it.

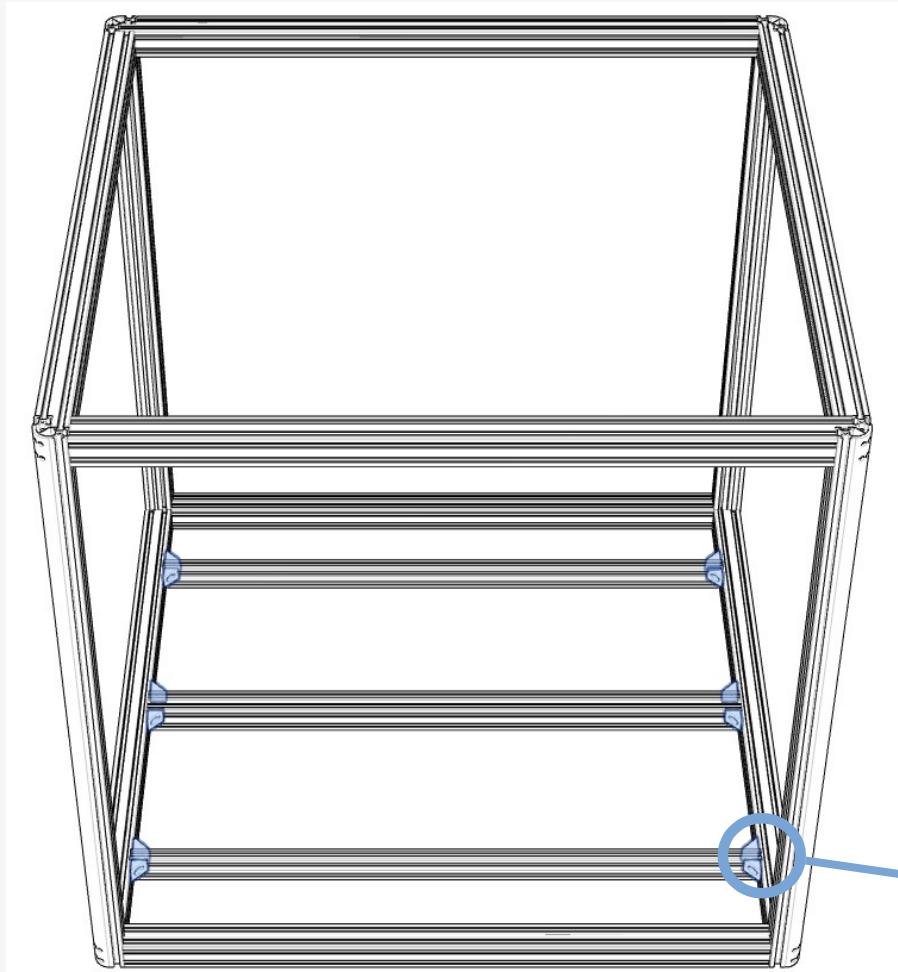
## FRAME

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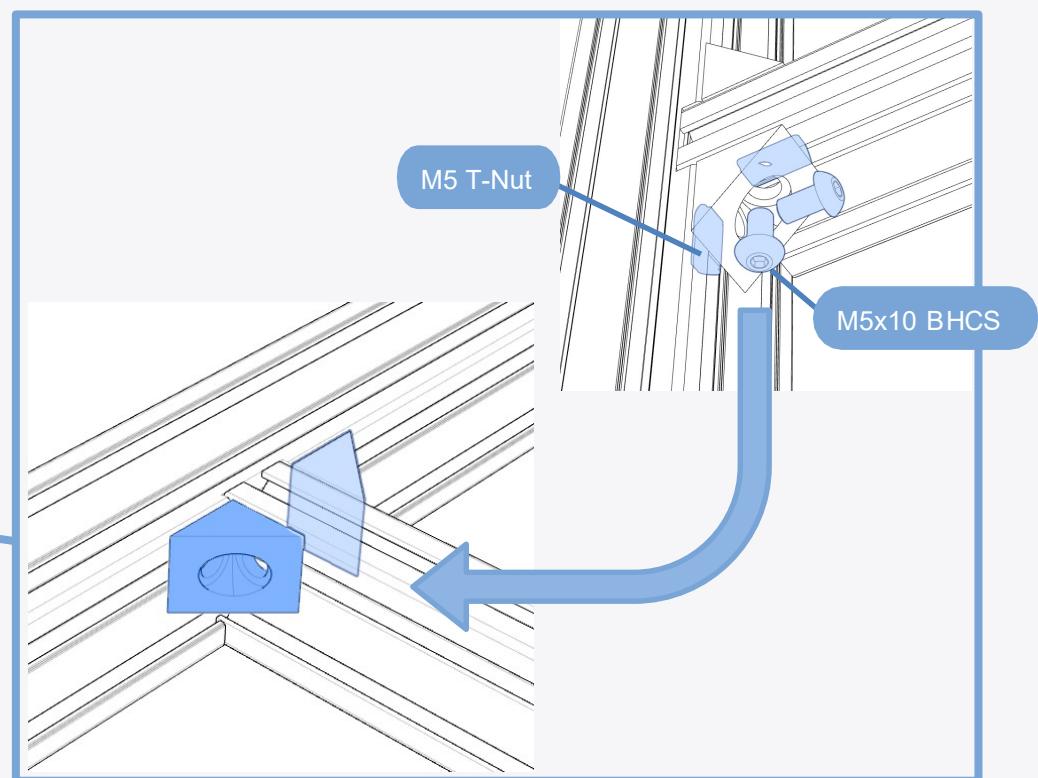
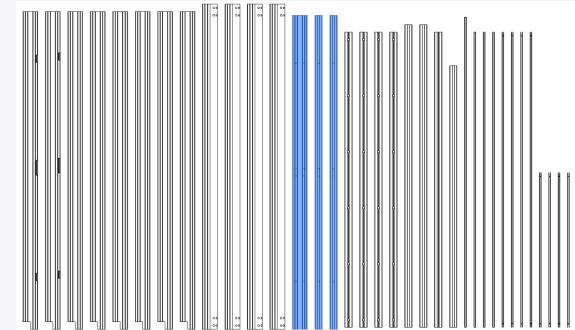


### BUILD ON A FLAT SURFACE

- Install the printing platform support profile at the bottom, 2040 on both sides and 4040 in the middle. Pay attention to the gap in the profile.

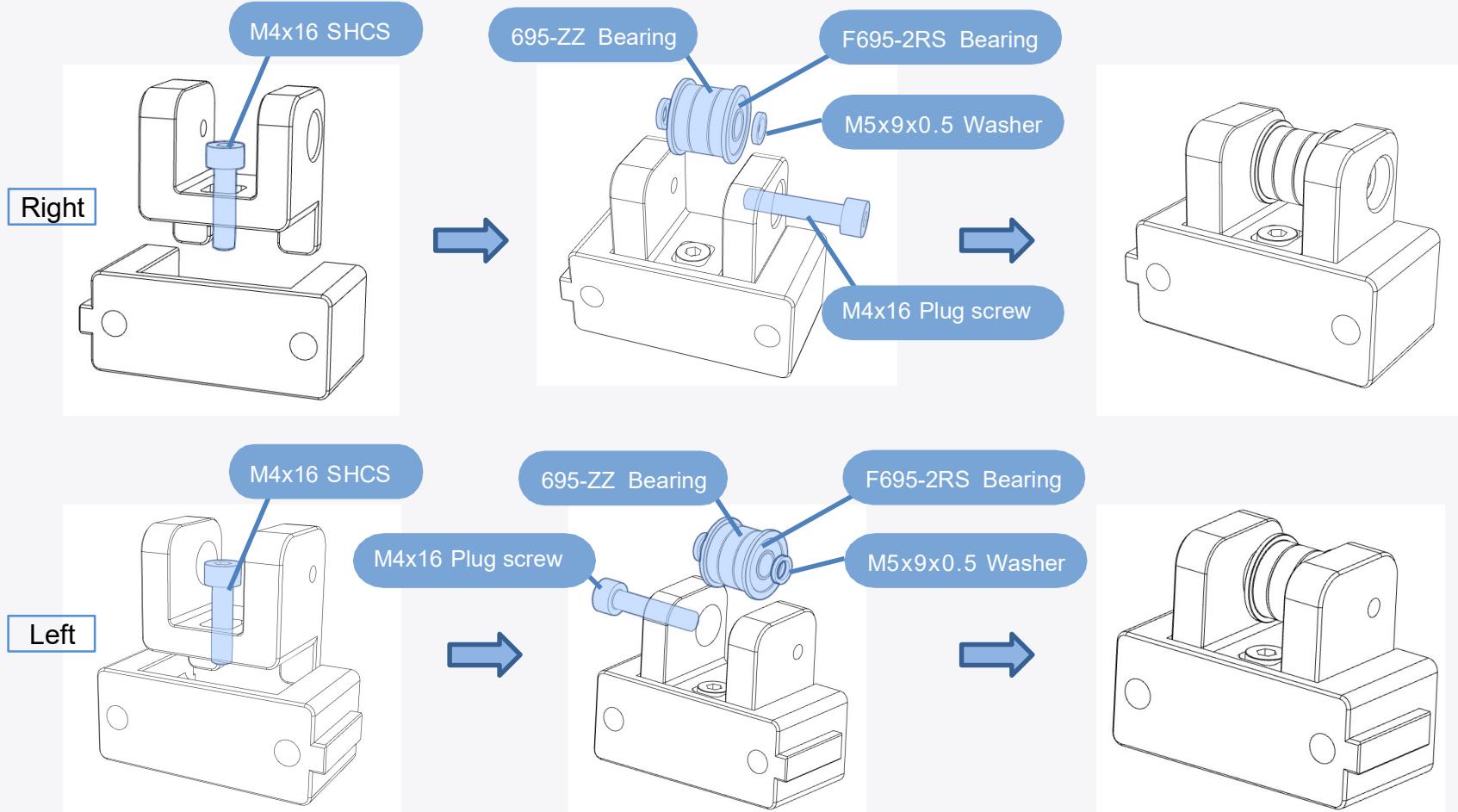
**BUILD ON A FLAT SURFACE**

- First put the M5 marble nut into the profile;
- Use M5x10 screws and angle brackets to fix on both sides (2040 on both sides and 4040 in the middle, pay attention to the gap in the profile).



## Z-axis belt idler assembly

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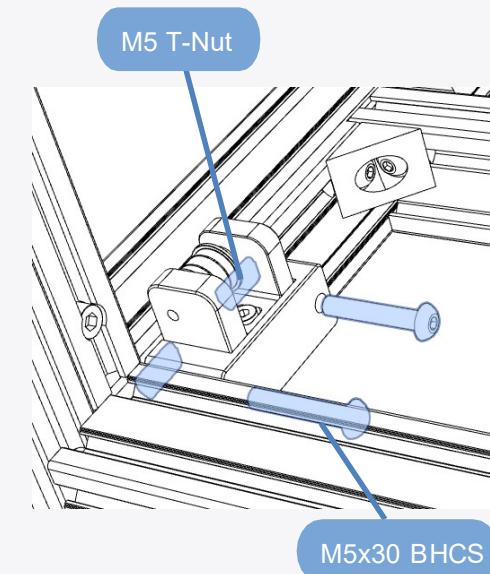


## ASSEMBLY

- Take out the machined parts of the belt tensioner and assemble as shown above. Quantity: left x2, right x2.

## Z-axis belt idler assembly

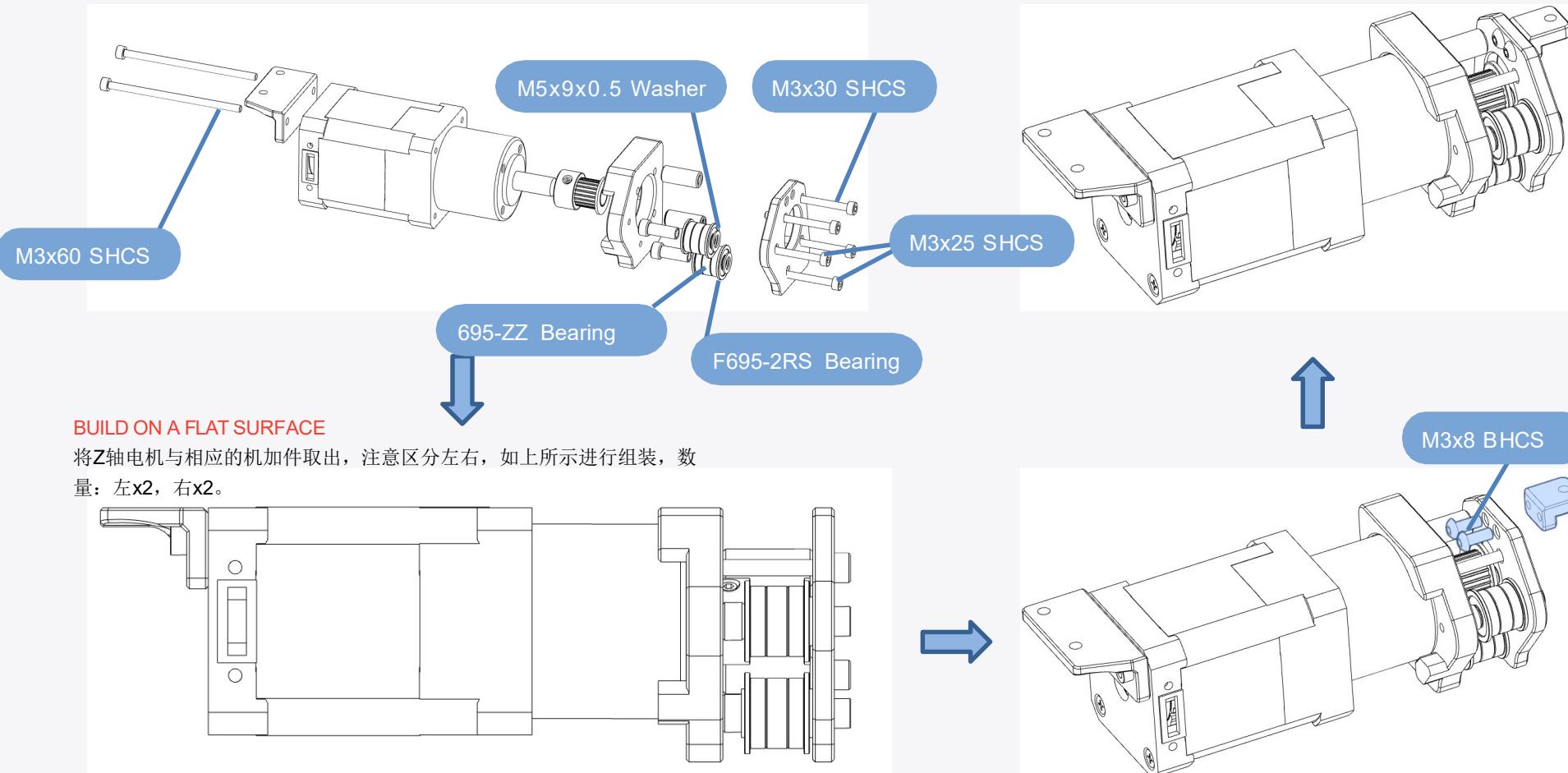
[WWW.FYSETC.COM](http://WWW.FYSETC.COM)



### ASSEMBLY

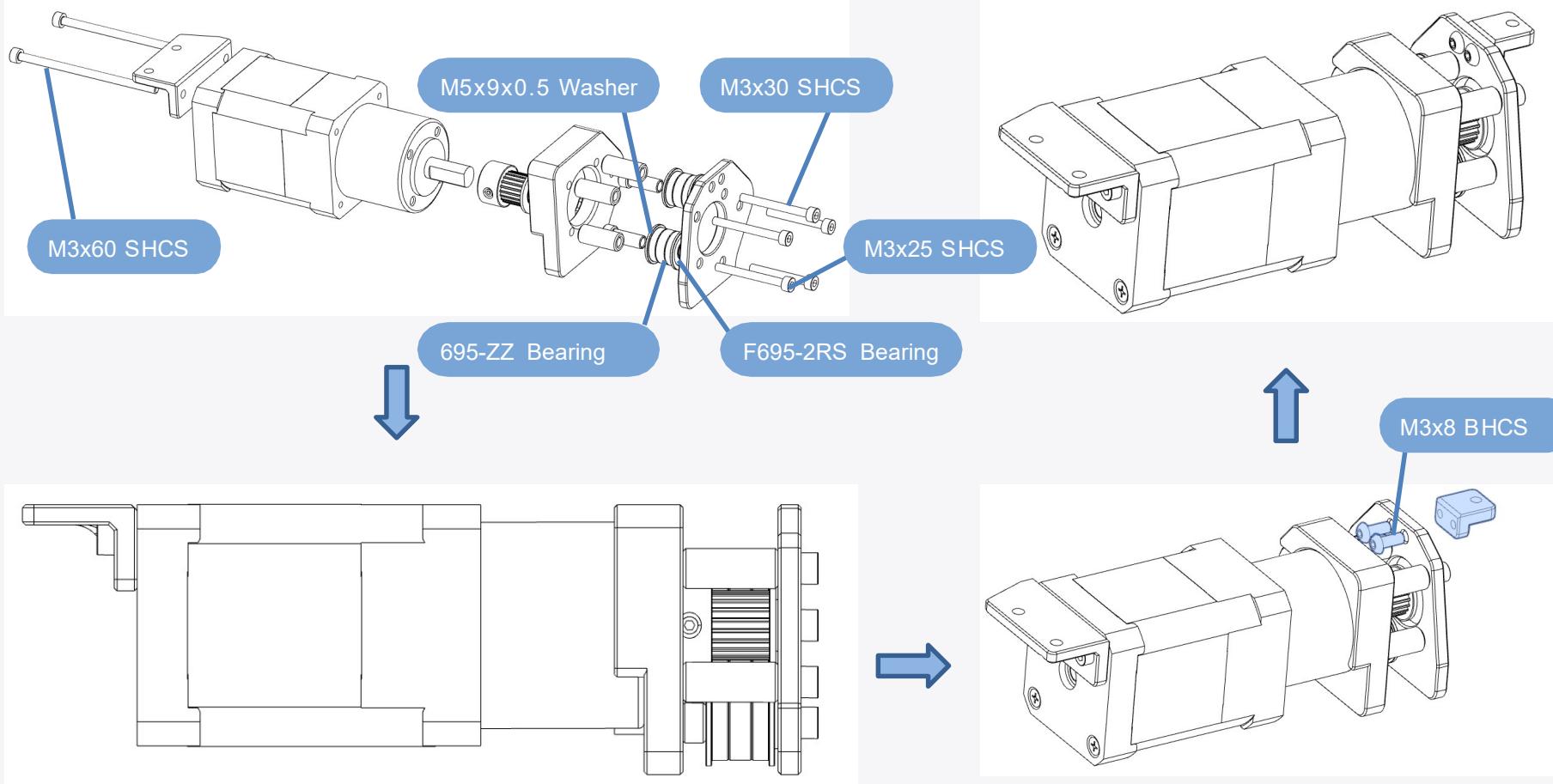
- Place the belt tensioner on the profile base, flush with the profile top surface, and pay attention to distinguish between left and right.
- Assemble as shown in the diagram, quantity: left x2, right x2, the diagonal parts are the same, pay attention to the idling direction.

Right

**ASSEMBLY**

- Take out the Z-axis motor and the corresponding machined parts, pay attention to distinguish the left and right, and assemble them according to the diagram.. Quantity: left x2, right x2.

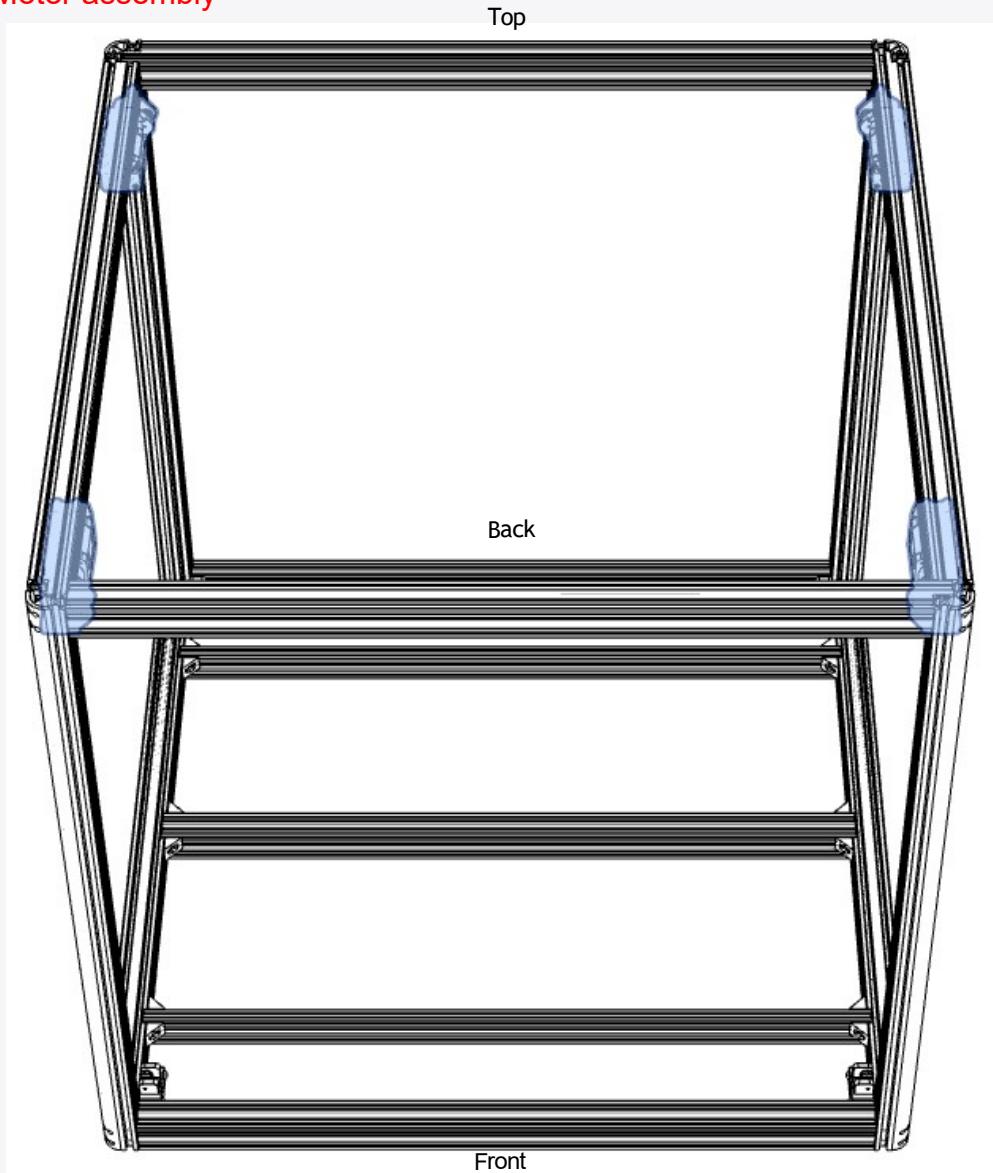
Left



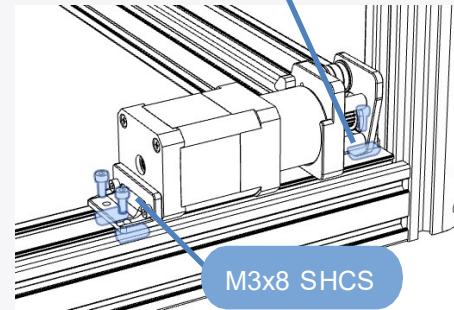
#### ASSEMBLY

- Take out the Z-axis motor and the corresponding machined parts, pay attention to distinguish the left and right, and assemble them according to the diagram. Quantity: left x2, right x2.

## Z-Motor assembly

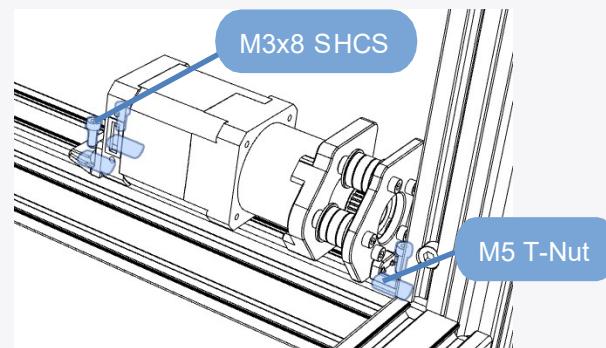


M5 T-Nut



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M3x8 SHCS



M5 T-Nut

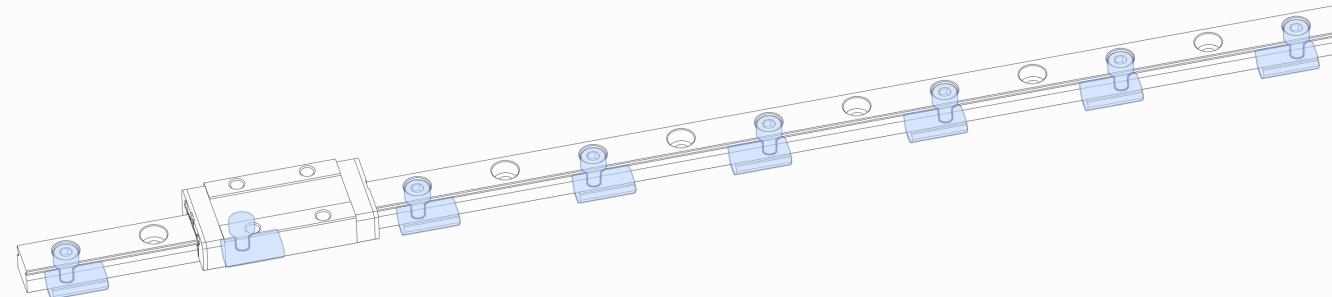
## ASSEMBLY

- Place the Z-axis motor assembly on top of the profile frame, flush with the upper surface of the profile, pay attention to distinguish between left and right, and assemble as shown above.
- Assemble as shown in the figure. Quantity: left x2, right x2, diagonally the same. Pay attention to the idling direction. The motor and the idler wheel must be consistent..

#### HANDLE WITH CARE

The carriage can slide off the rail if not handled properly. Dropping the carriage likely irreparably damages it.

Any marks, dents or nicks might cause the linear rail to misbehave in operation.



#### LINEAR RAILS - PREPARATION AND MOUNTING

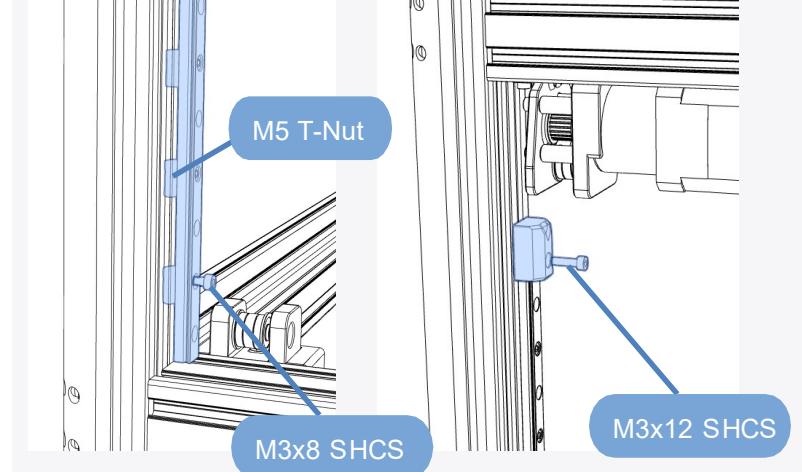
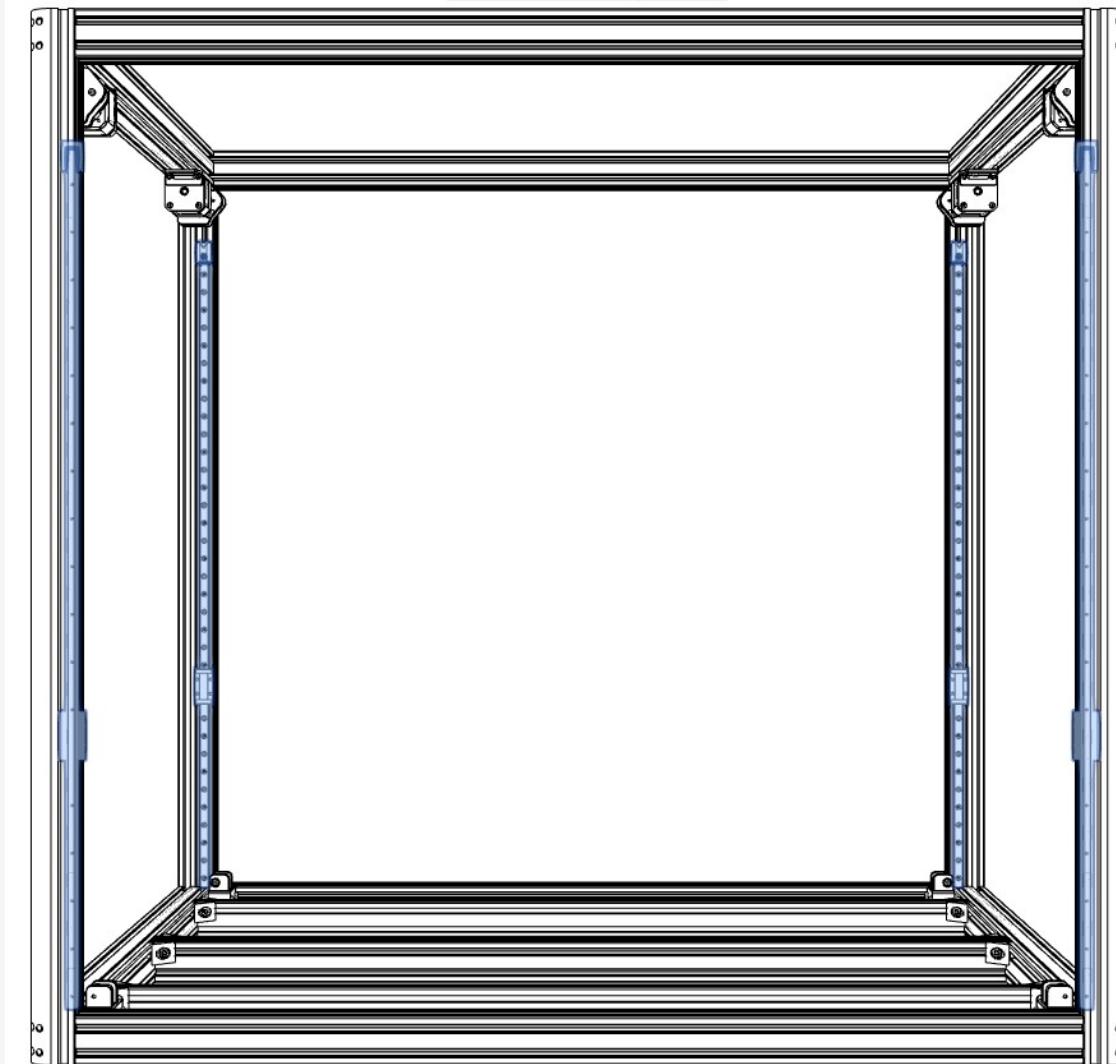
Most linear rails arrive with shipping oil. To ensure a smooth gliding motion and long service life, this oil needs to be removed and its rail carriage greased. See the Voron sourcing guide for a recommended list of lubricants. We attached a link to a video guide to get you started.

We opted to skip every other mounting hole in the linear rail when designing the mounting pattern for this printer. This cuts down on mounting hardware and still meets the requirements for our use case.

When tightening the bolts tighten them from the center outward to ensure that the rail sits flush on the extrusion.

## Z-axis Rail installation

[WWW.FYSETC.COM](http://WWW.FYSETC.COM)

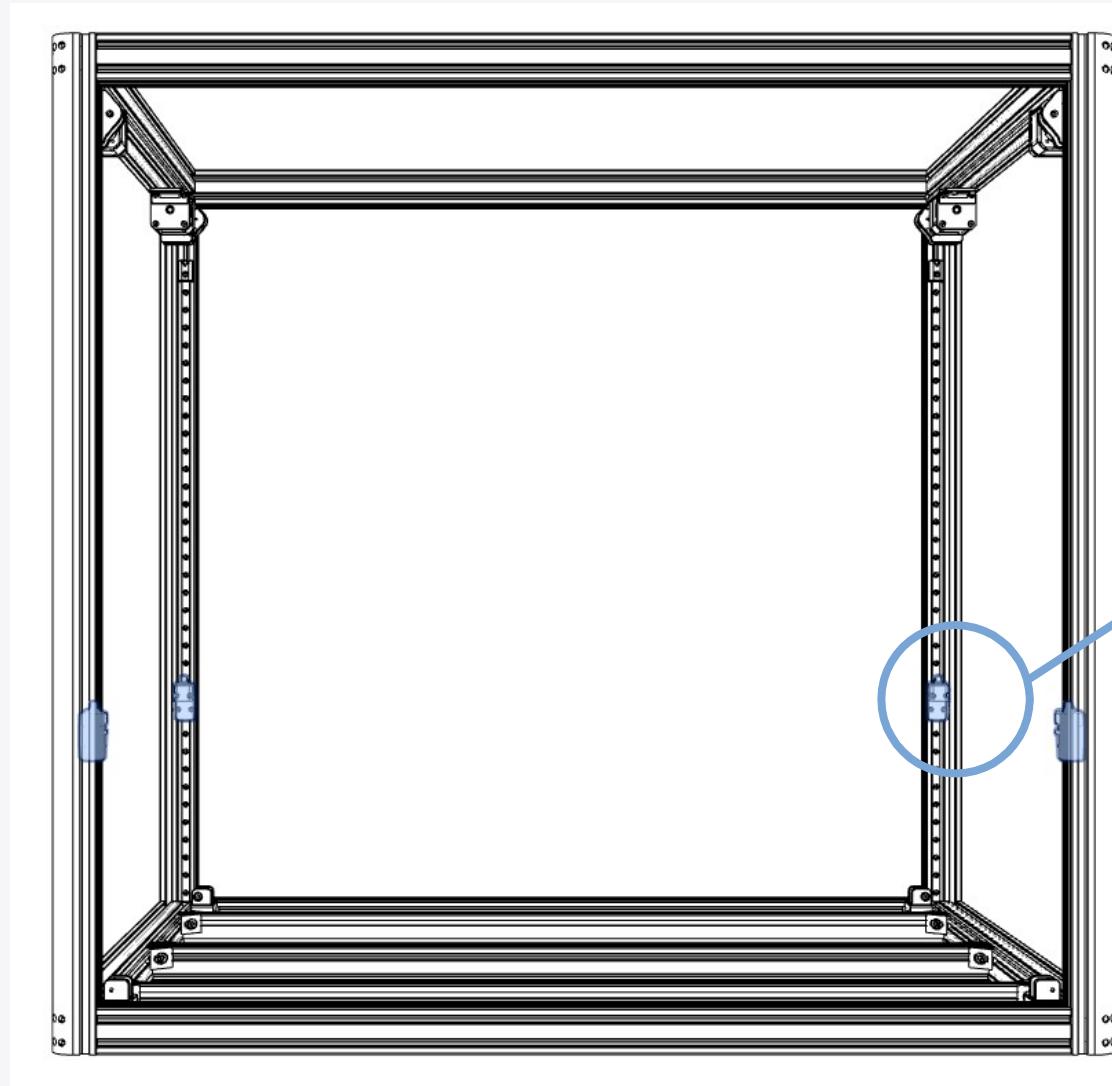


### ASSEMBLY

- Install the Z-axis guide rail on the column, flush with the bottom surface of the profile, and be careful not to let the guide rail slider fall off. Note that the guide rail and the motor are on the same side;
- Use M3x12 screws on the top of the guide rail to fix the printed part to prevent the slider from falling off.

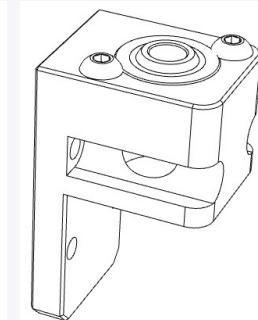
## Z-axis Guide rail connector installation

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M3x6 BHCS

GE5C fish eye spherical bearing



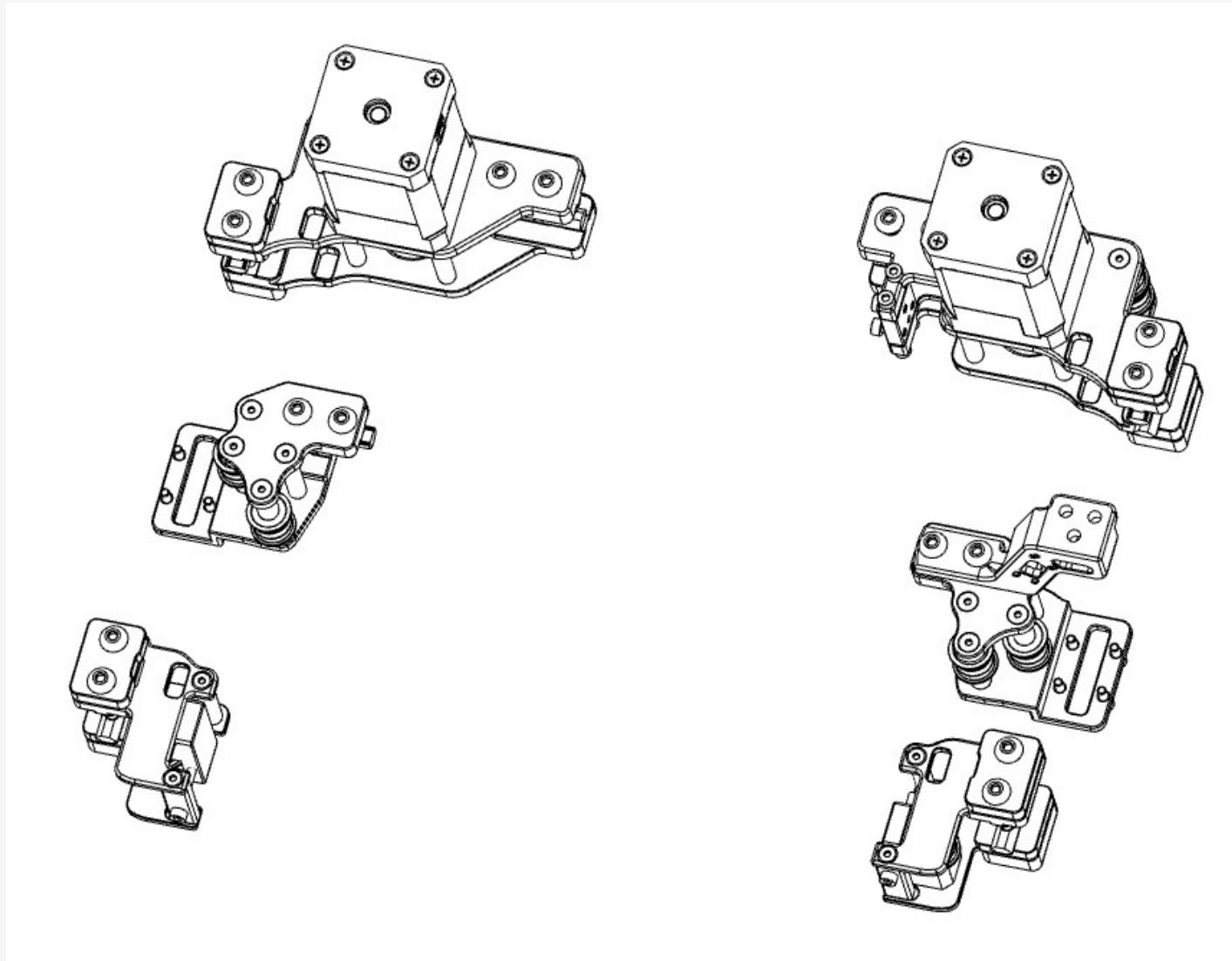
M3x8 SHCS

### ASSEMBLY

- First install the GE5C fisheye bearing in the connector slot and tighten the screws;
- Install the connector on the Z-axis guide rail slider and tighten the screws.

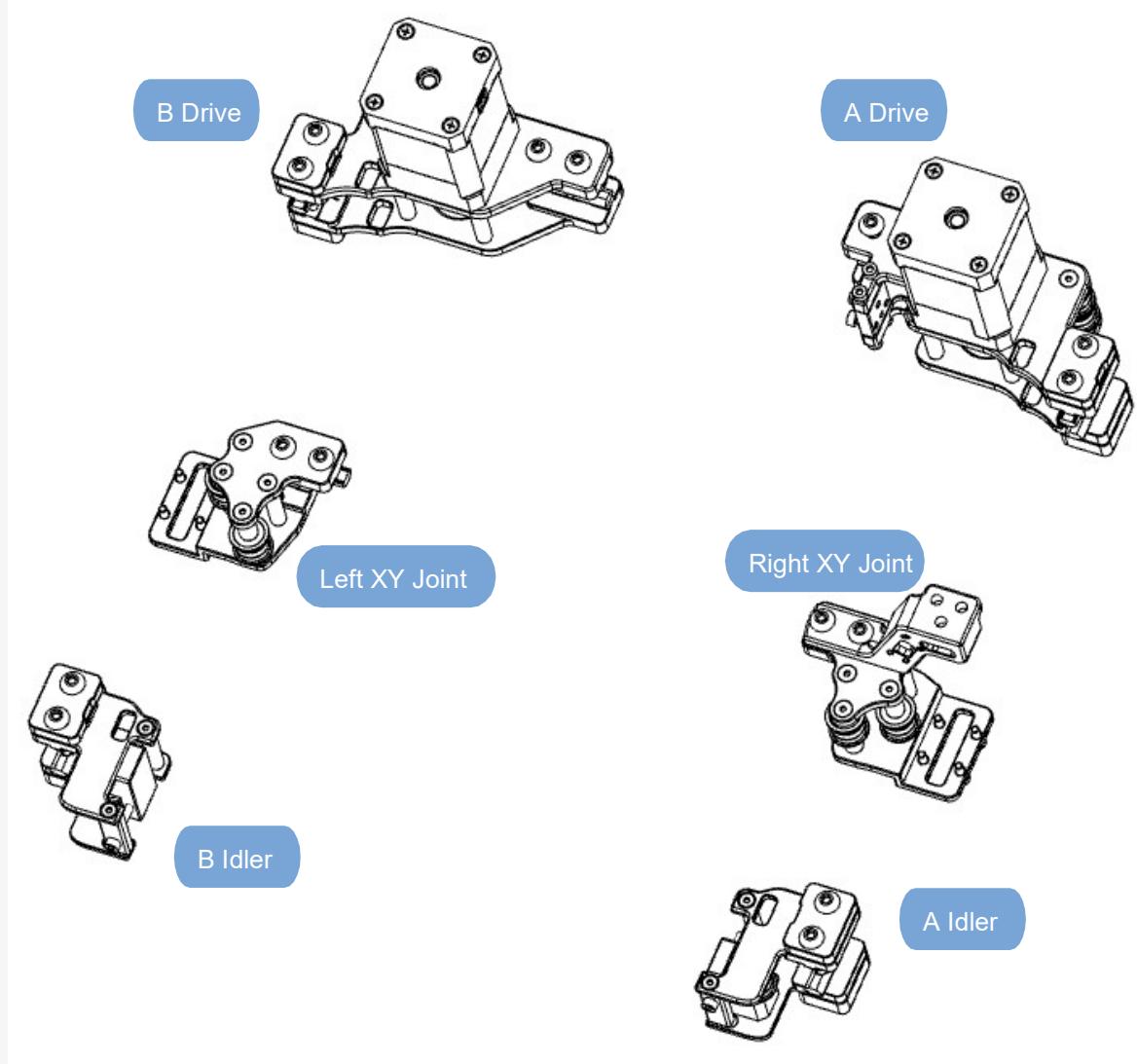
A/B Motor and Idler Assembly

[WWW.FYSETC.COM](http://WWW.FYSETC.COM)



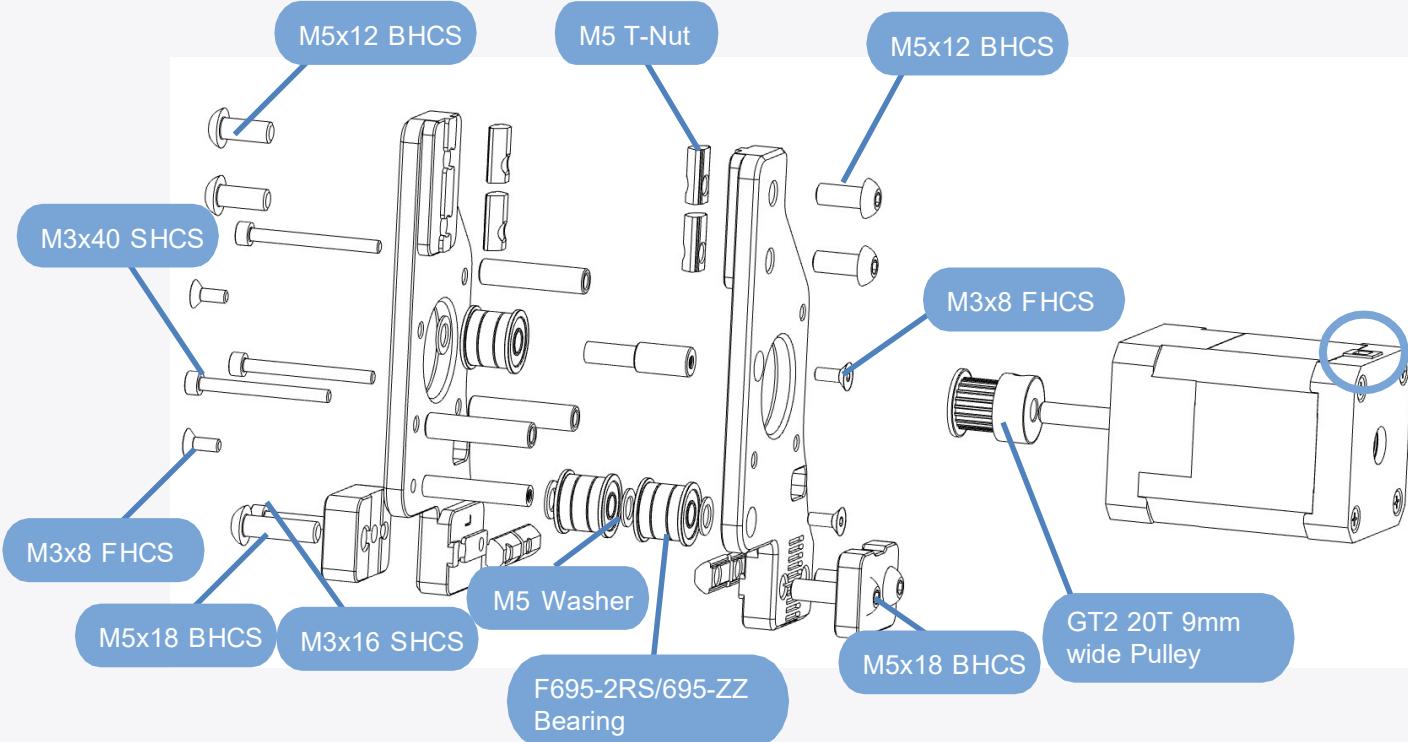
## OVERVIEW

[WWW.VORONDESIGN.COM](http://WWW.VORONDESIGN.COM)



## B-Drive Components

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### ASSEMBLY

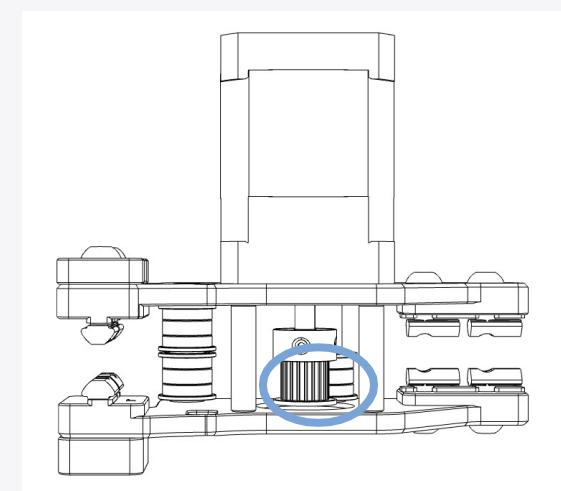
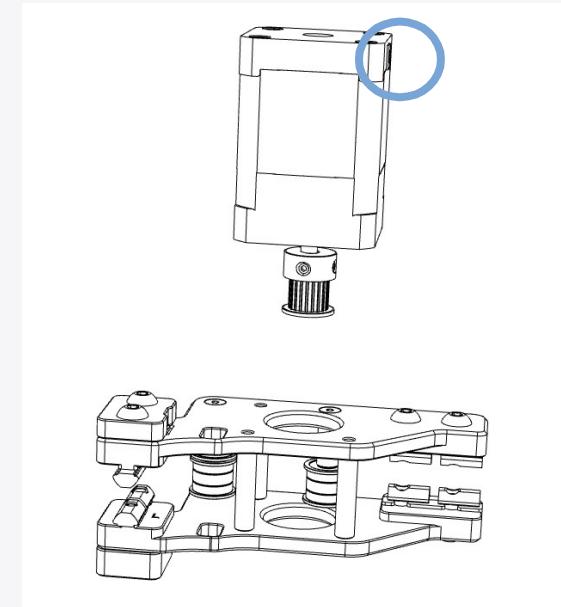
- Prepare the materials as shown in the figure;
- Use screws to assemble them;
- Finally, use M3x40 screws to fix the motor (If the screw is longer, add an M3 washer) ;
- Pay attention to the direction of the motor wiring port.

### CHECK YOUR WORK

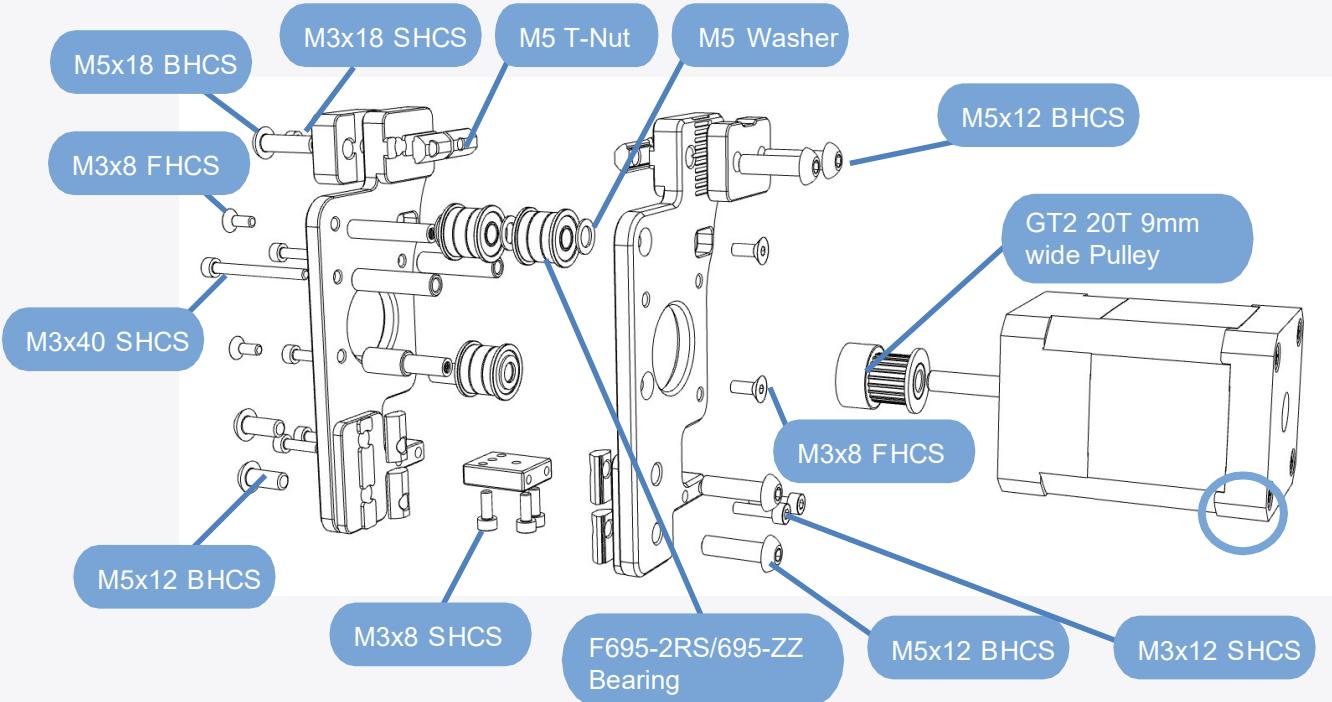
- Compare your assembled part to the graphic shown here;
- Pay attention to the pulley orientation and alignment with the bearing stack ups.

### UPSIDE DOWN ASSEMBLY

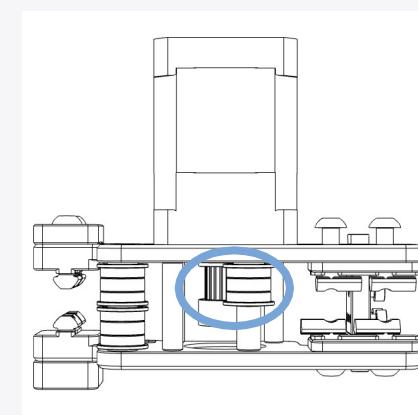
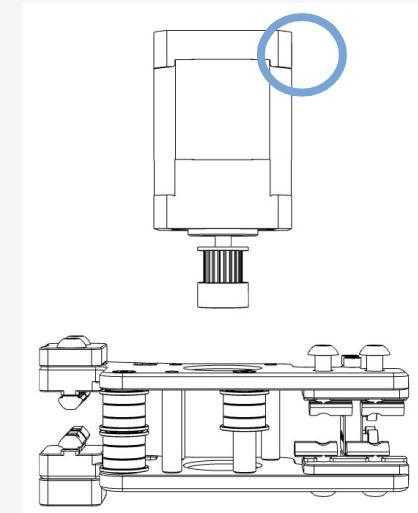
- For ease of assembly we recommend to assemble the A and B drives upside down;



## A-Drive Components



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## ASSEMBLY

- Prepare the materials as shown in the figure;
- Use screws to assemble them;
- Finally, use M3x40 screws to fix the motor (If the screw is longer, add an M3 washer) ;
- Pay attention to the direction of the motor wiring port.

## CHECK YOUR WORK

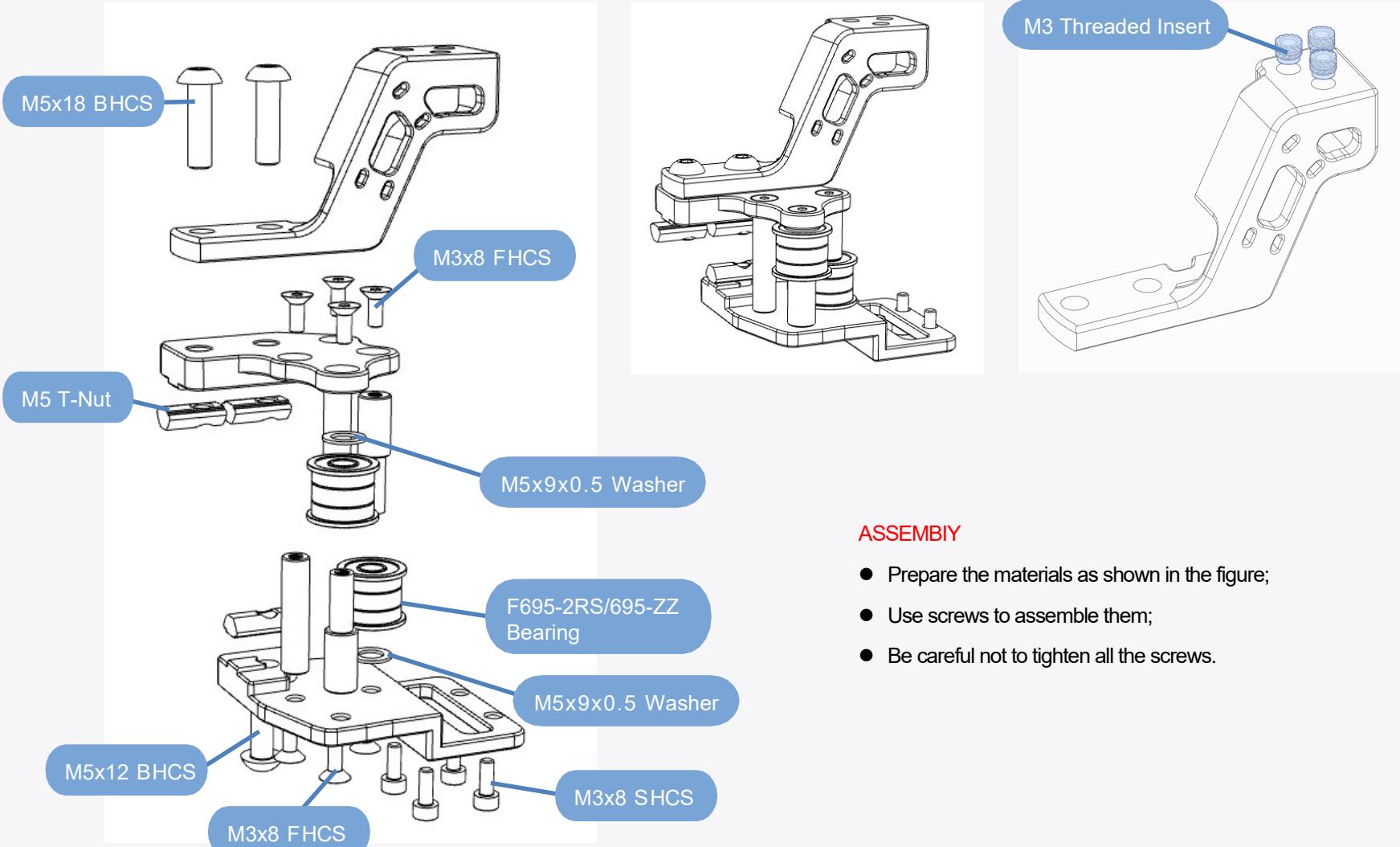
- Compare your assembled part to the graphic shown here;
- Pay attention to the pulley orientation and alignment with the bearing stack ups.

## UPSIDE DOWN ASSEMBLY

- For ease of assembly we recommend to assemble the A and B drives upside down;

## XY-Joint Right

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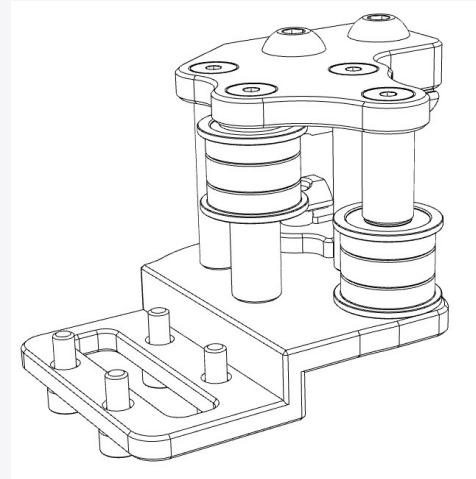
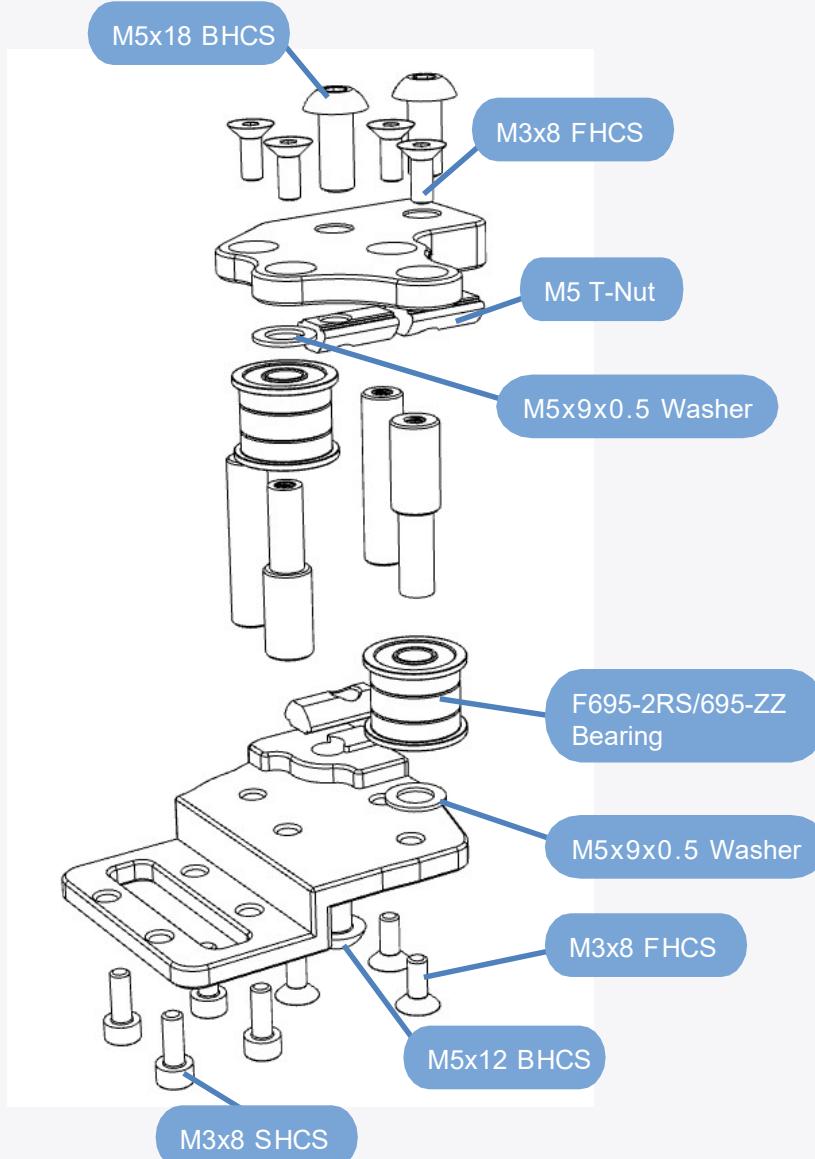


### ASSEMBLY

- Prepare the materials as shown in the figure;
- Use screws to assemble them;
- Be careful not to tighten all the screws.

XY-Joint Left

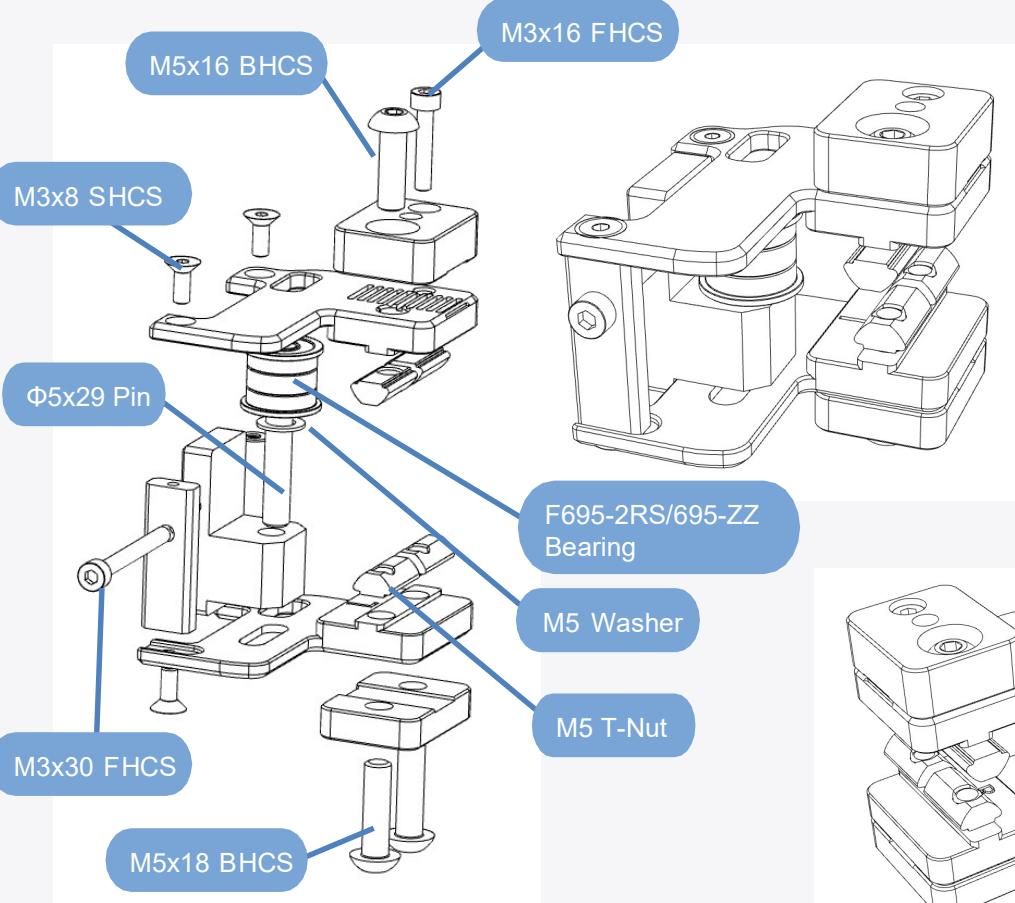
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#### ASSEMBLY

- Prepare the materials as shown in the figure;
- Use screws to assemble them;
- Be careful not to tighten all the screws.

### A Idler

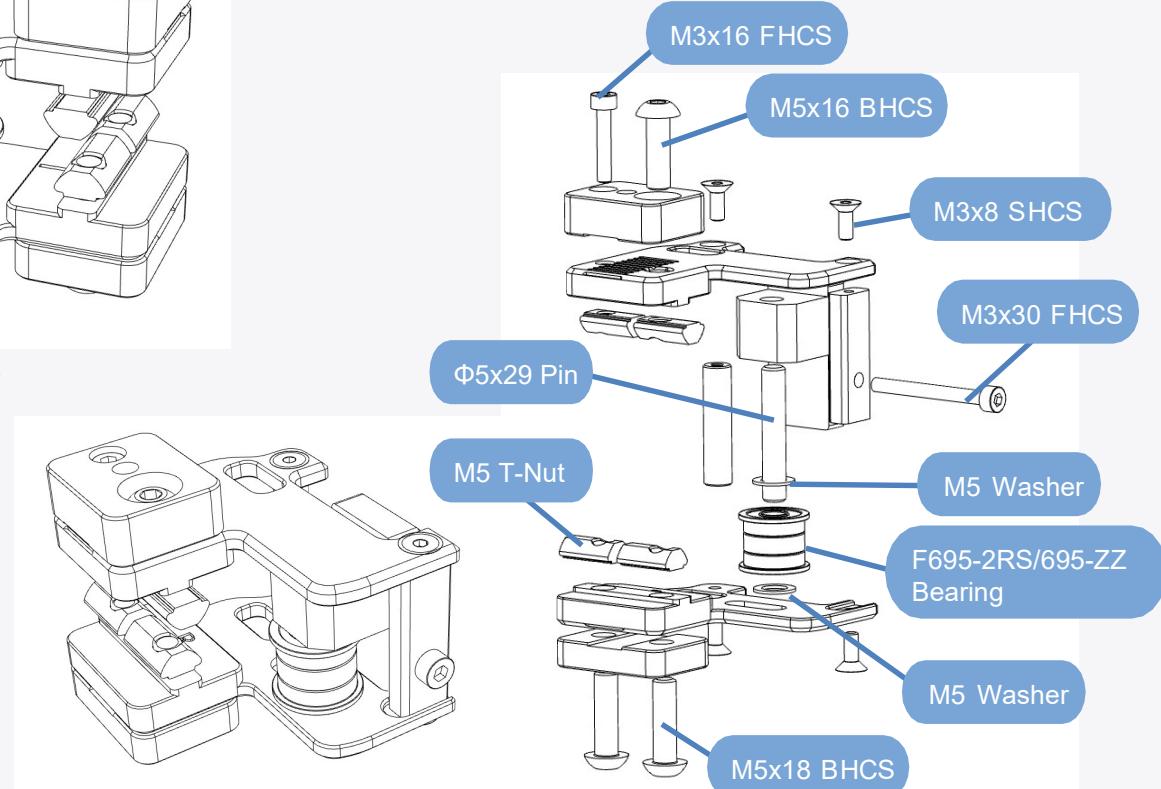


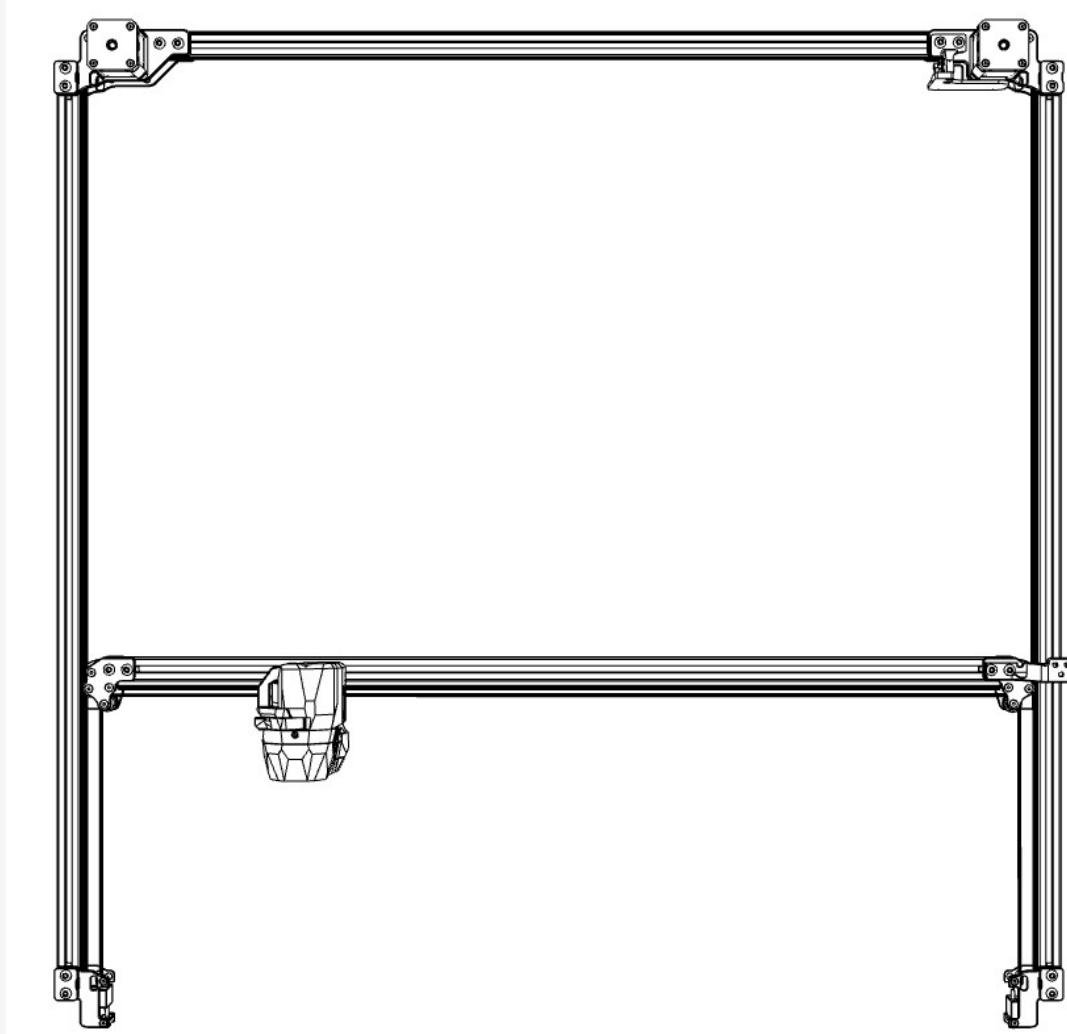
### ASSEMBLY

- Prepare the materials as shown in the figure;
- Use screws to assemble them;
- Be careful not to tighten all the screws.

### B Idler

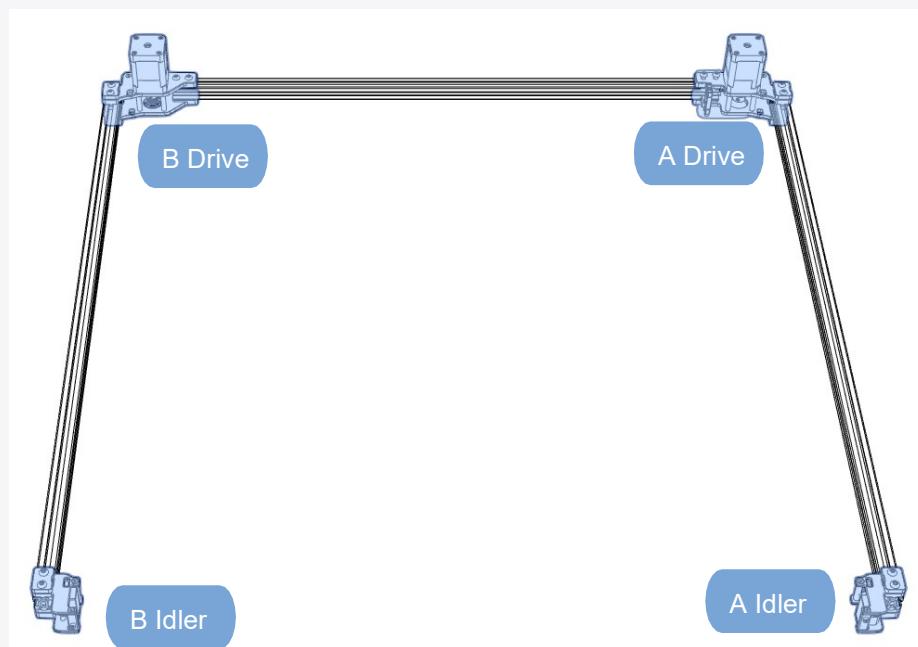
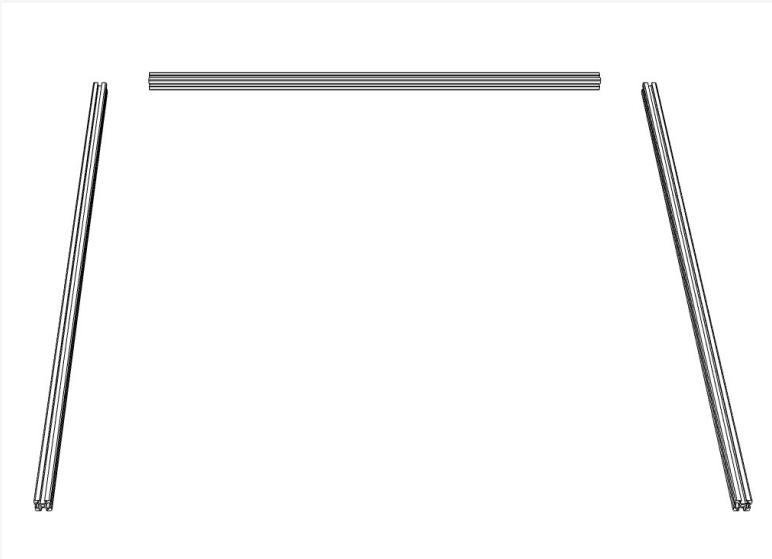
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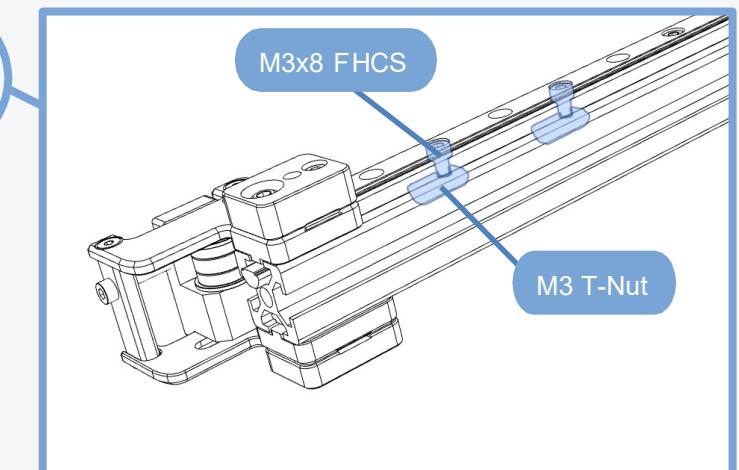
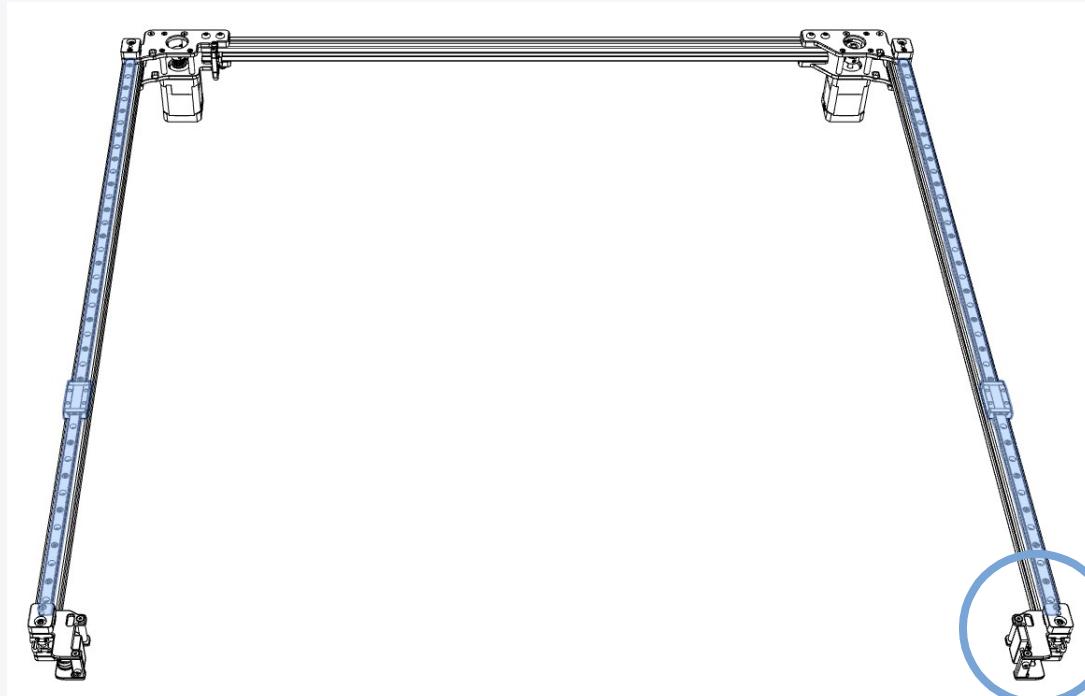
## Gantry Components

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### ASSEMBLY

- Prepare the materials as shown in the figure;
- Locking screw.

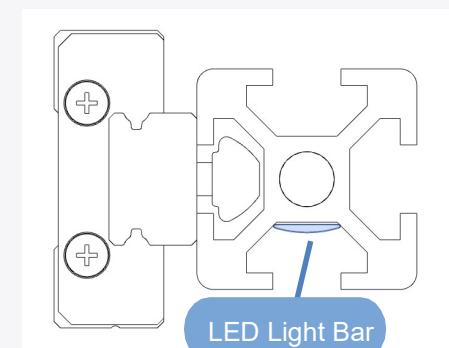
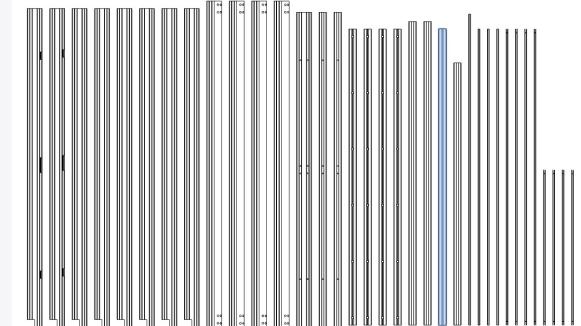
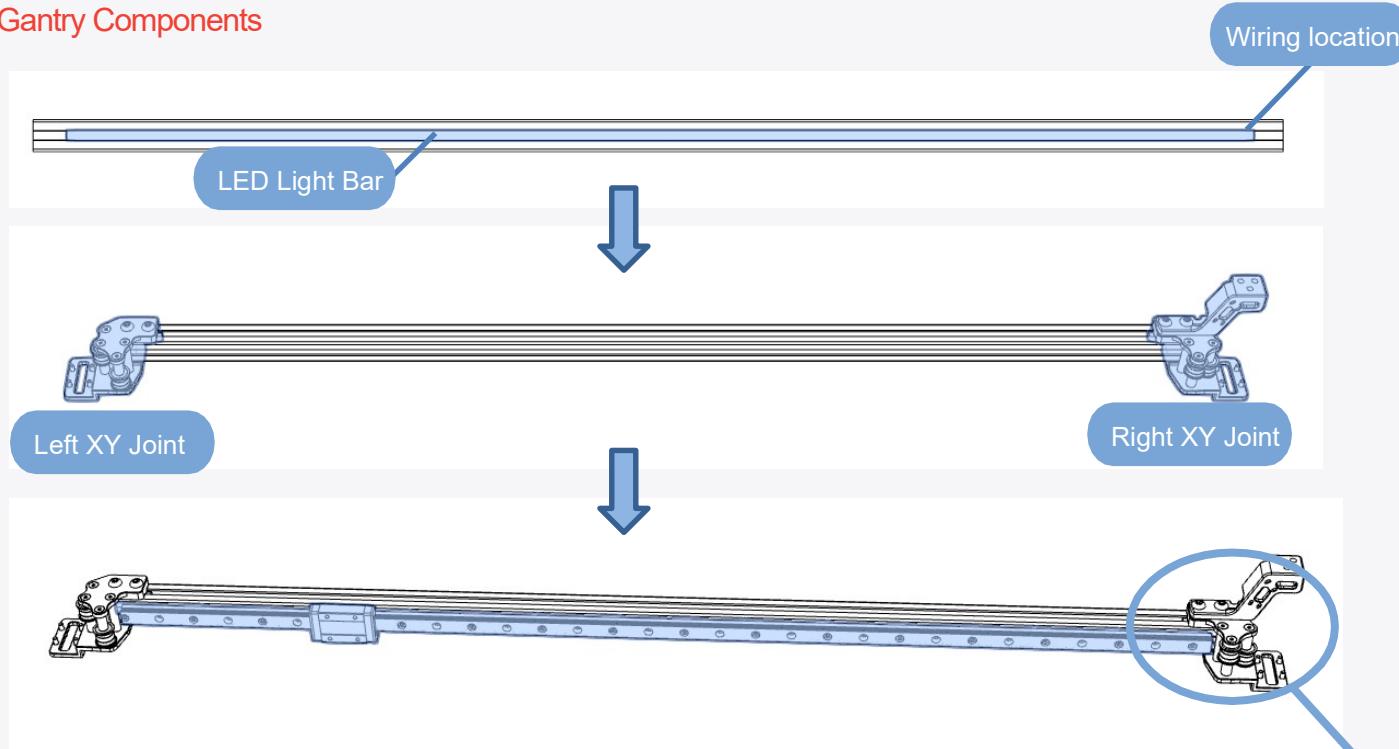


**ASSEMBLY**

- Install 2 Pcs linear guide rails MGN9H (length 760mm) on the bottom of the profile;
- Use M3x8 FHCS for fixing, locking screw.

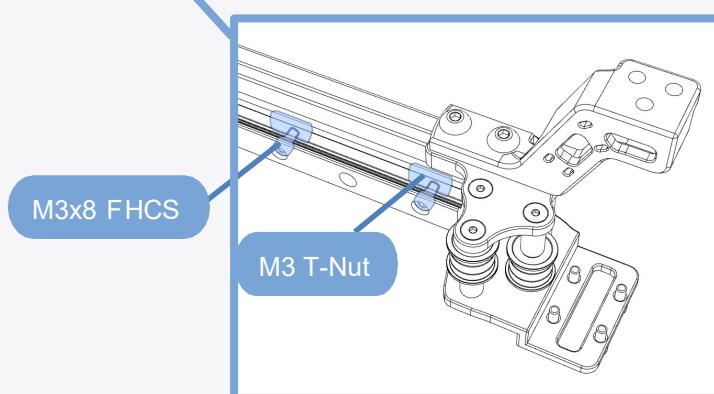
## Gantry Components

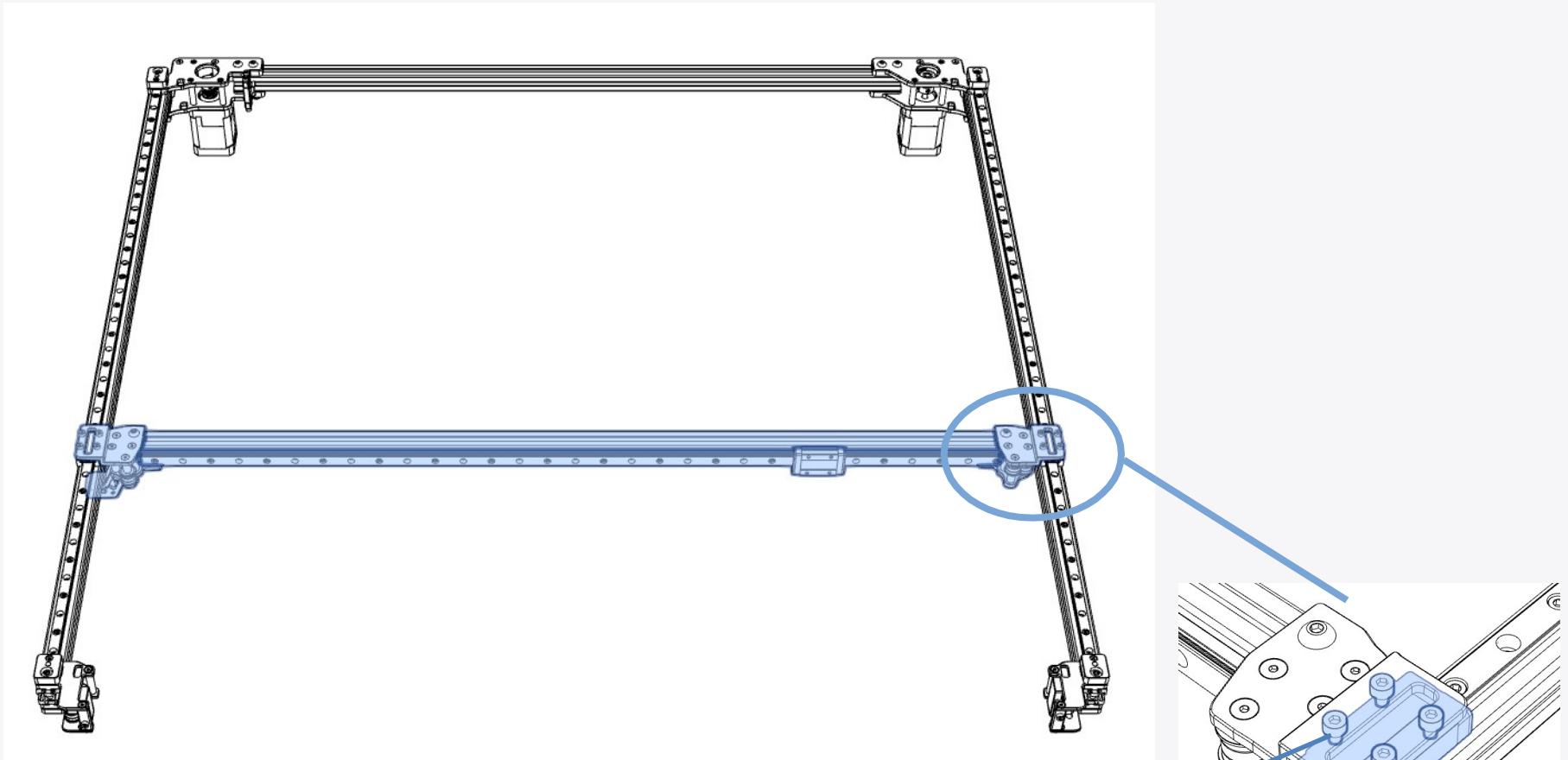
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## ASSEMBLY

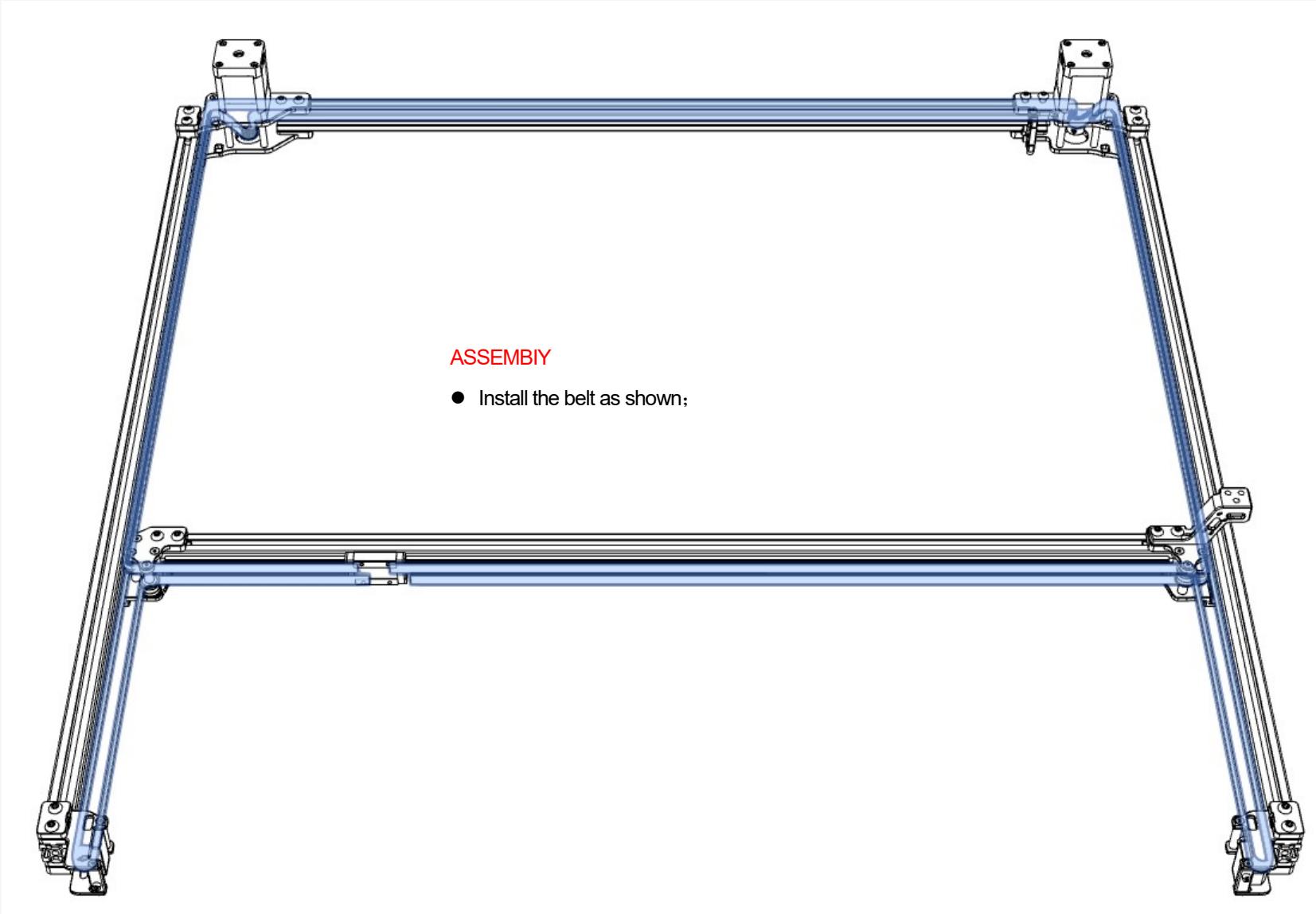
- First, solder the connecting wire at one end of the light strip (refer to the wiring diagram for wiring);
- Insert the light strip into the profile and stick it in the center;
- Install the left/right XY joints on both sides of the profile and tighten the screws (make sure the light bar is on the bottom);
- Install 1 Pcs linear guide MGN12H (length 765mm) on the side of the profile. Use M3x8 FHCS for fixing;

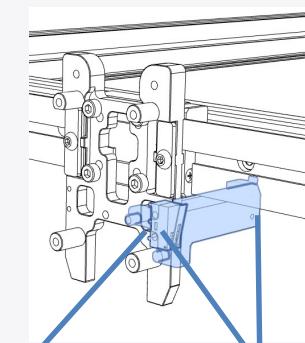
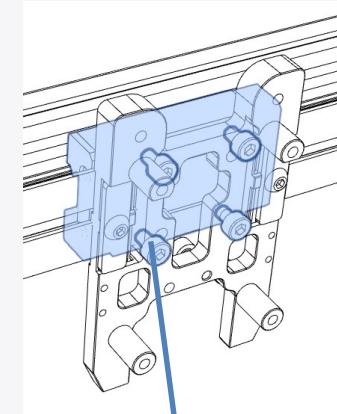
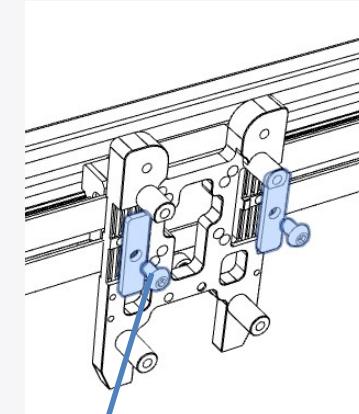
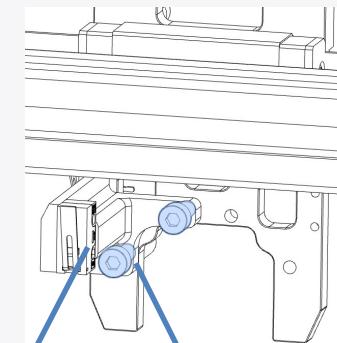
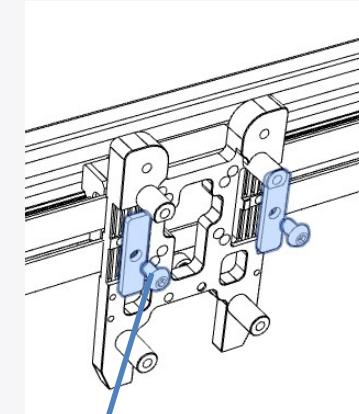
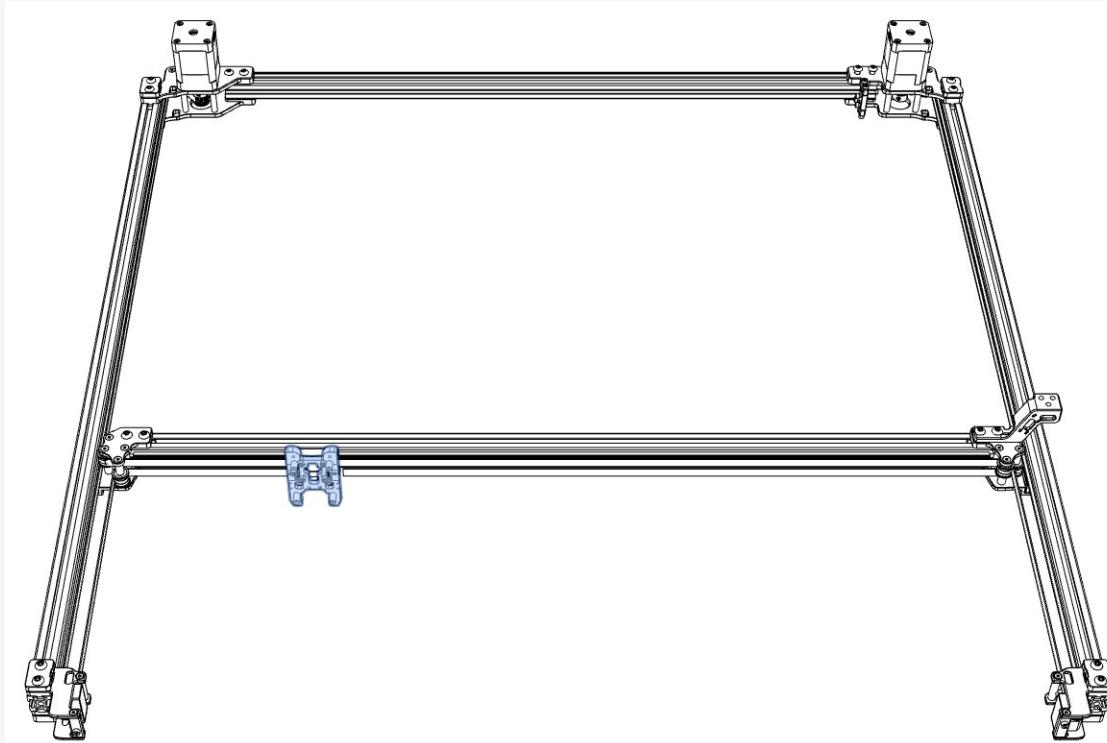




**ASSEMBLY**

- Install the gantry X-axis assembly on the frame;
- Use M3x8 FHCS at both ends to fix the slider;





### ASSEMBLY

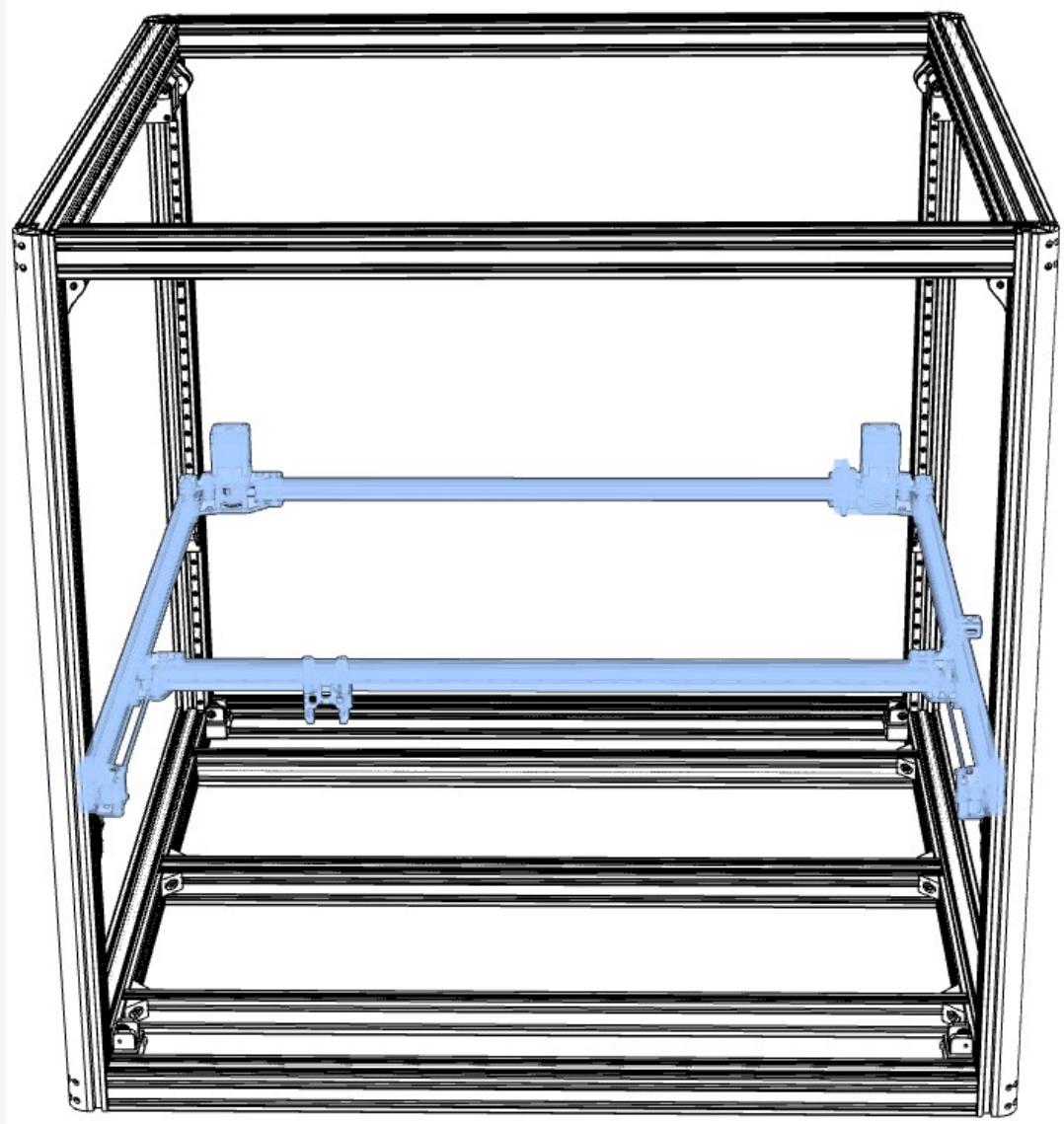
- After the belt is put on, use IDM ScannerCNC metal parts to fix it, and use M3x6 BHCS to tighten the belt;
- Use M3x8 FHCS to fix the IDM ScannerCNC metal parts on the guide rail slide;
- Use M2x10 FHCS to fix 1 Pcs of micro switches on the printed part and 1 Pcs on the metal part;
- Install the micro switch print on the IDM ScannerCNC metal part and fix it with M3x8 FHCS;

M2x10 FHCS

M3x8 FHCS

M2x10 FHCS

XY Micro Switch

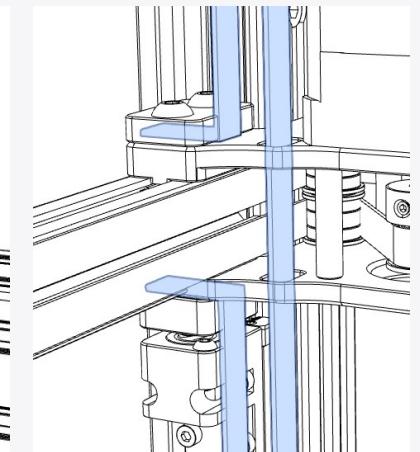
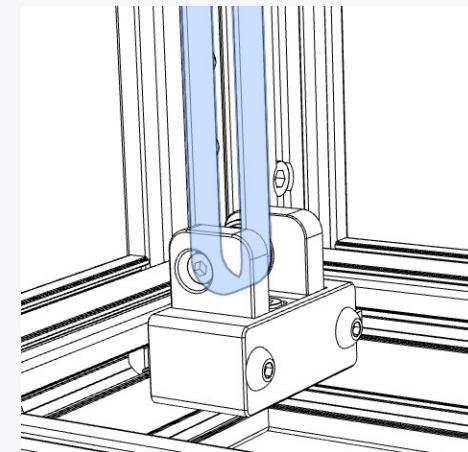
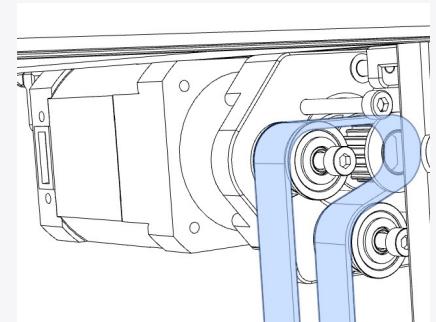
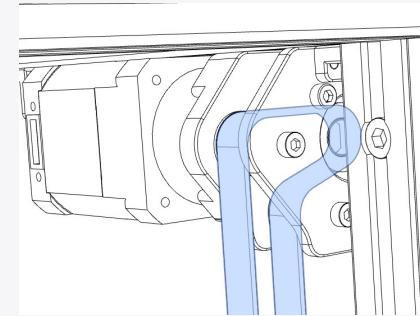
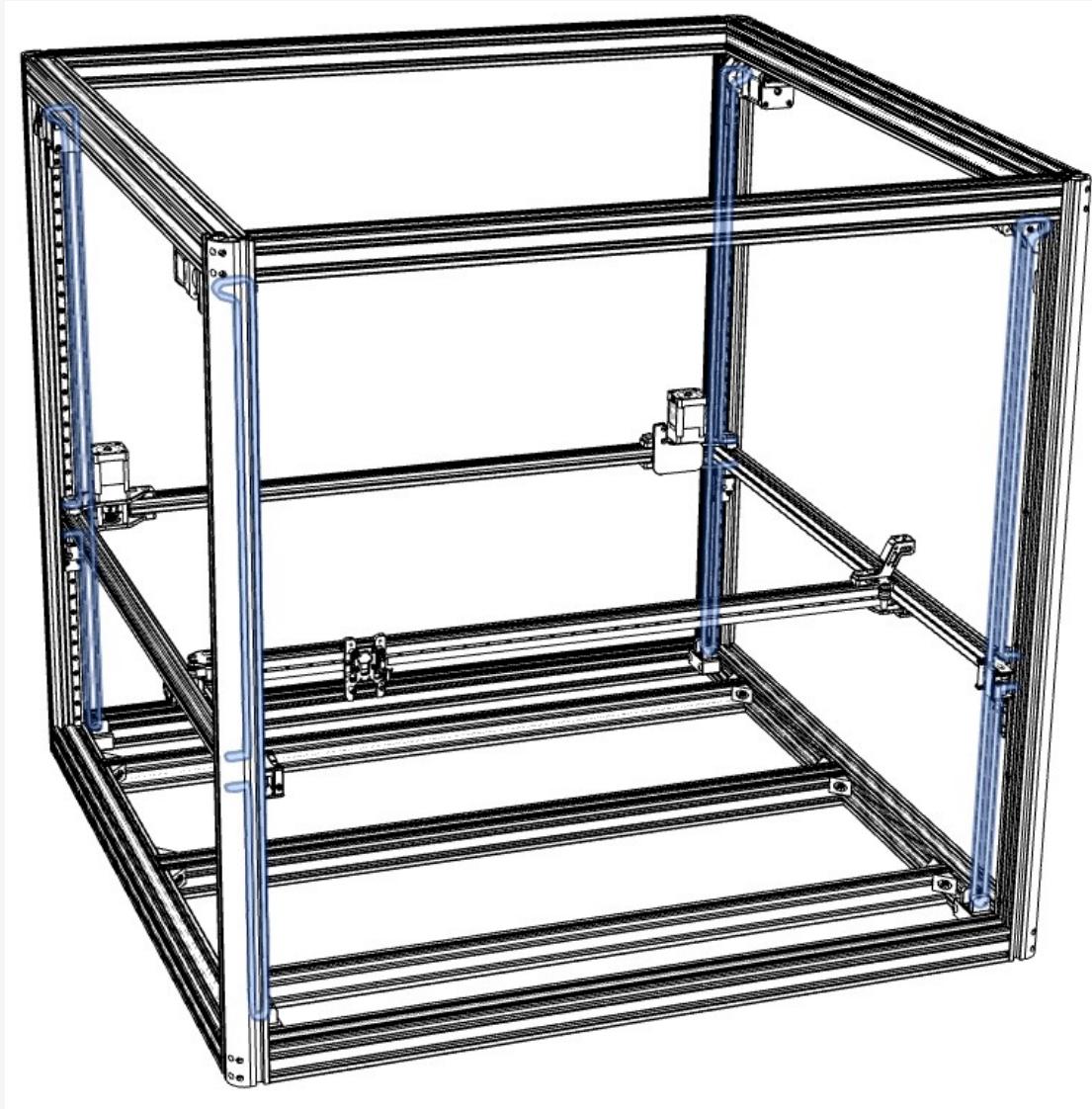


**ASSEMBLY**

- Place the assembled gantry components into the frame;

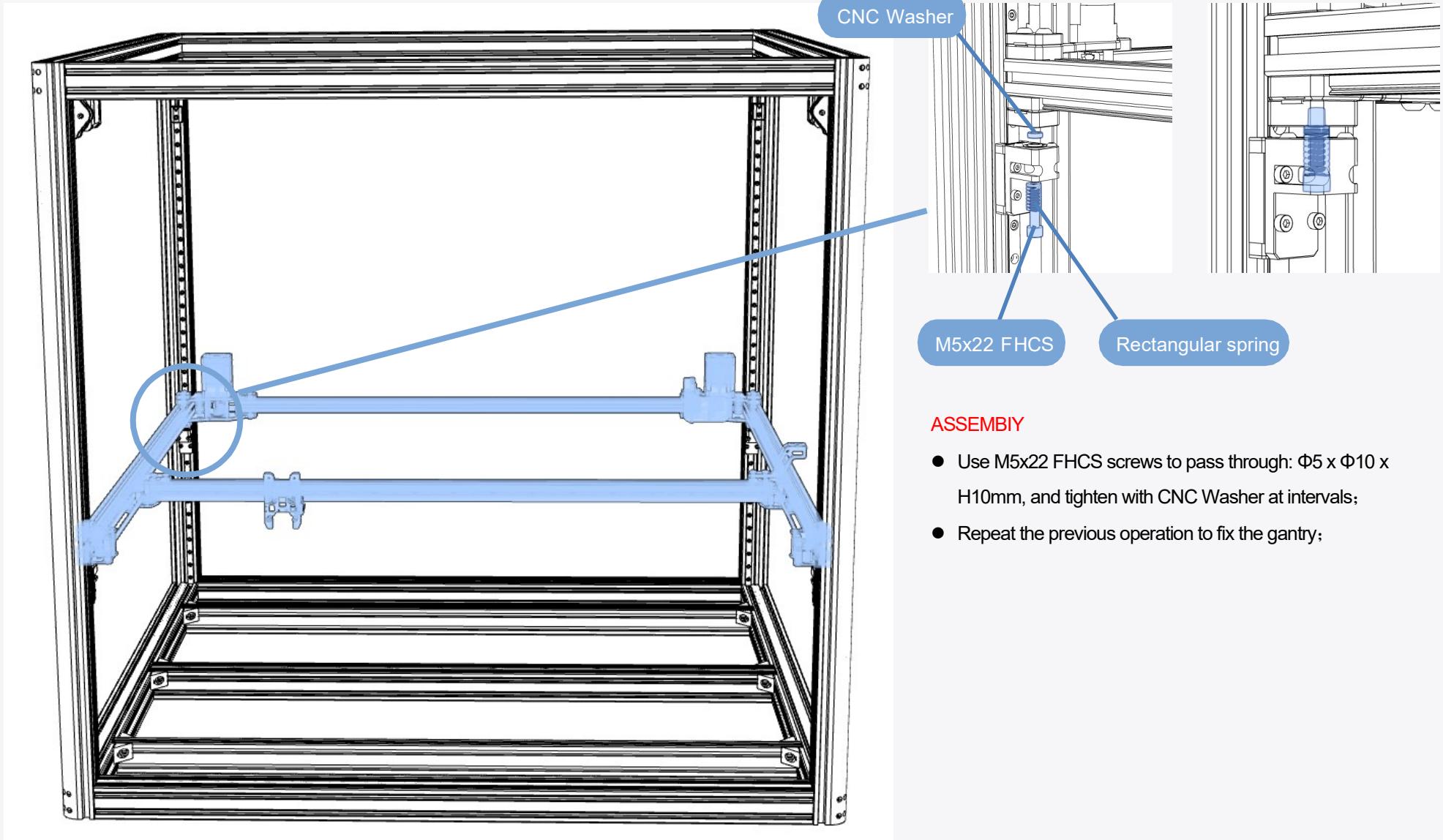
## Gantry Components

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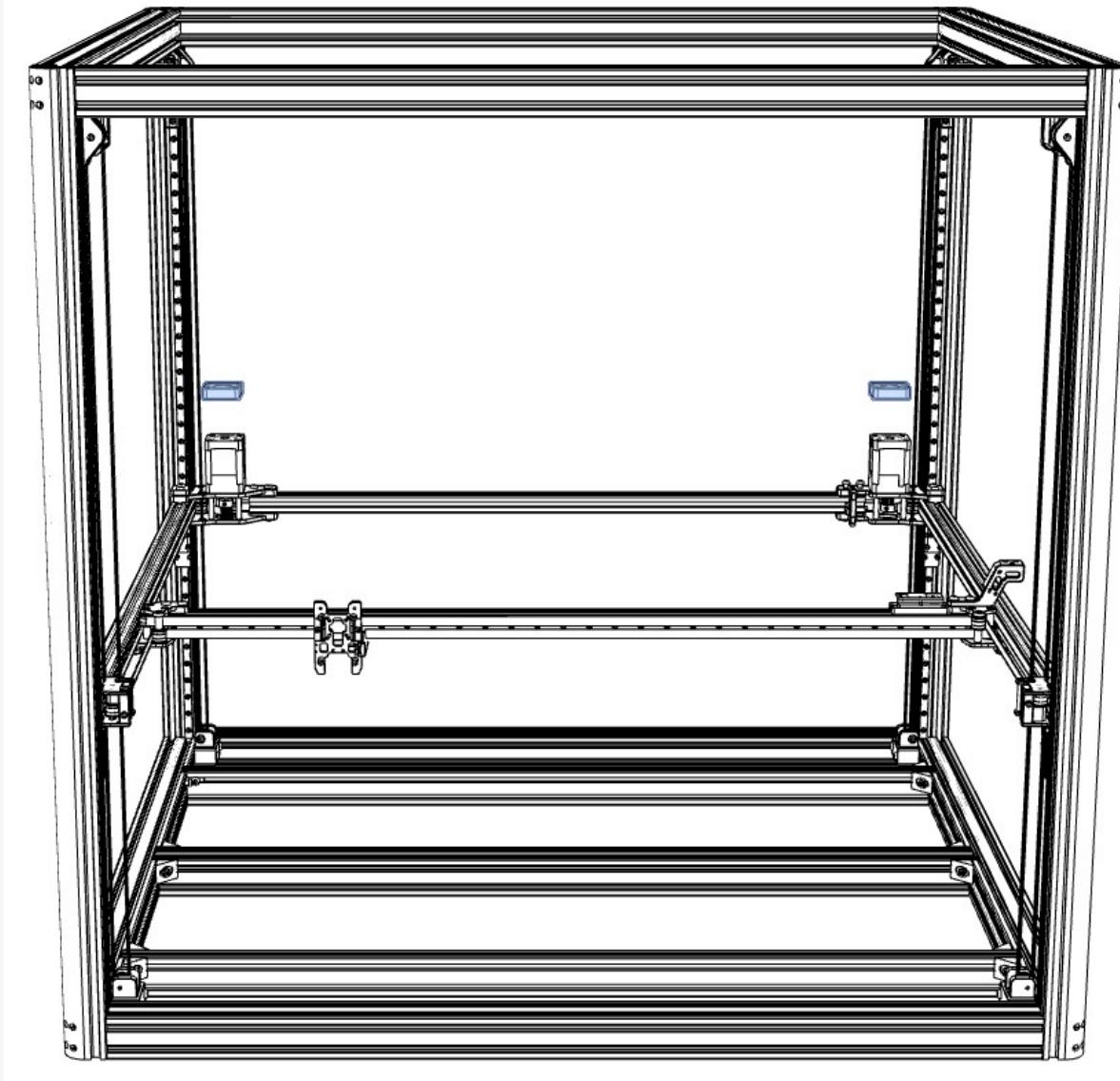
### ASSEMBLY

- Pass the belt through the reduction motor and idler pulley as shown, and then fix it to the gantry assembly;



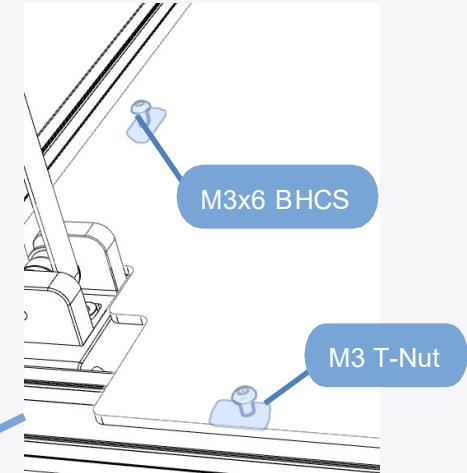
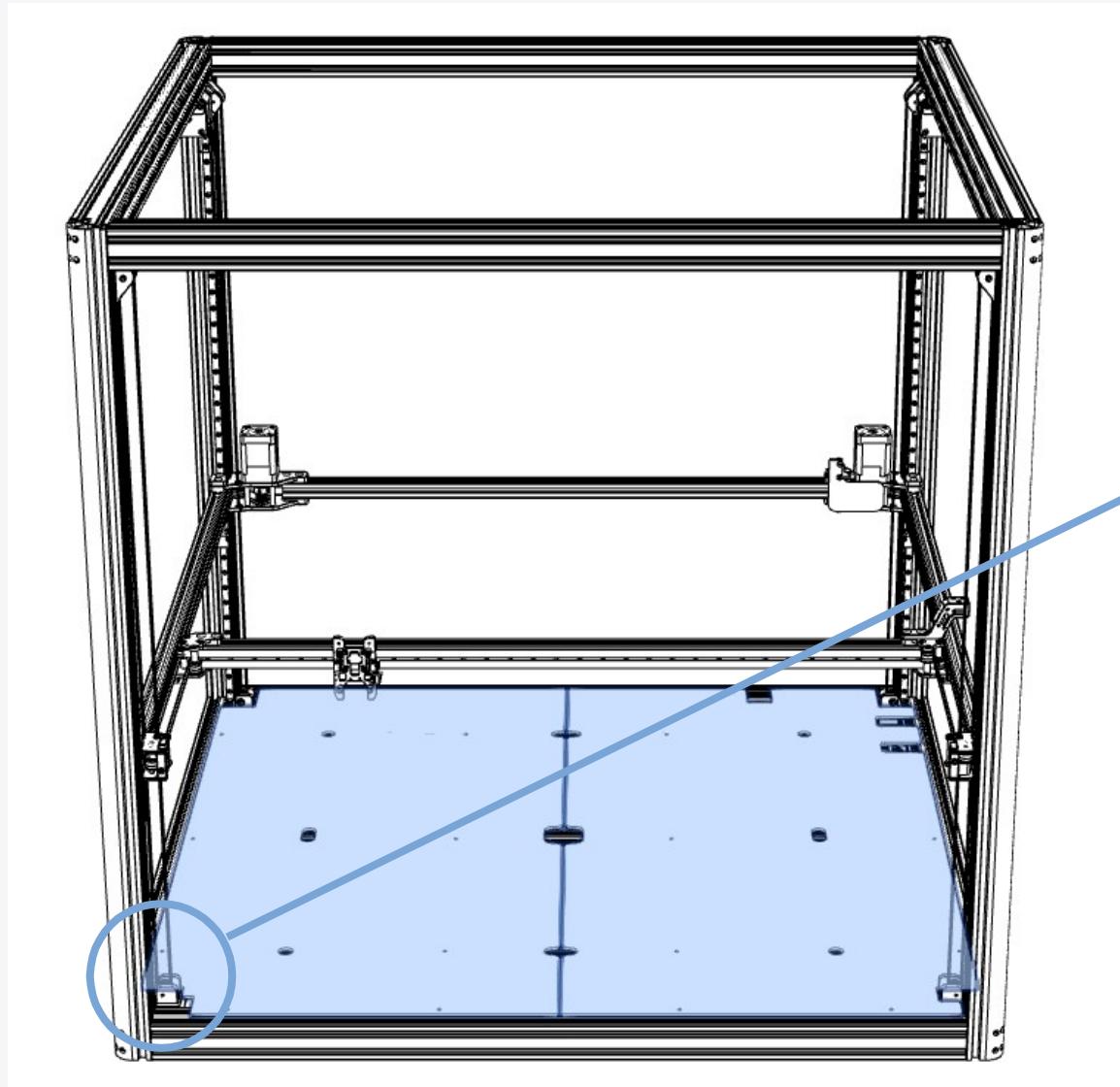
**ASSEMBLY**

- Use M5x22 FHCS screws to pass through:  $\Phi 5 \times \Phi 10 \times H10\text{mm}$ , and tighten with CNC Washer at intervals;
- Repeat the previous operation to fix the gantry;



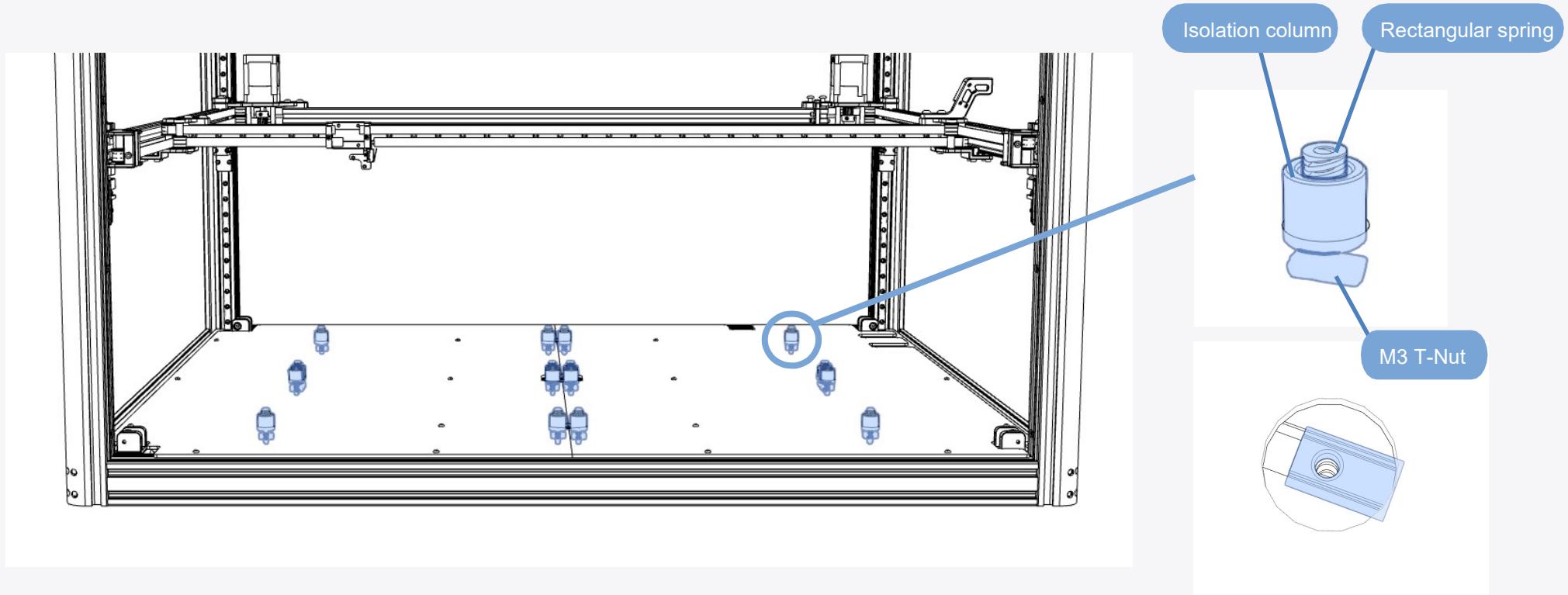
**ASSEMBLY**

- Install AB motor cooling fan;
- Tear off the sticker on the back of the heat sink and stick it on the tailstock of the motor;



**ASSEMBLY**

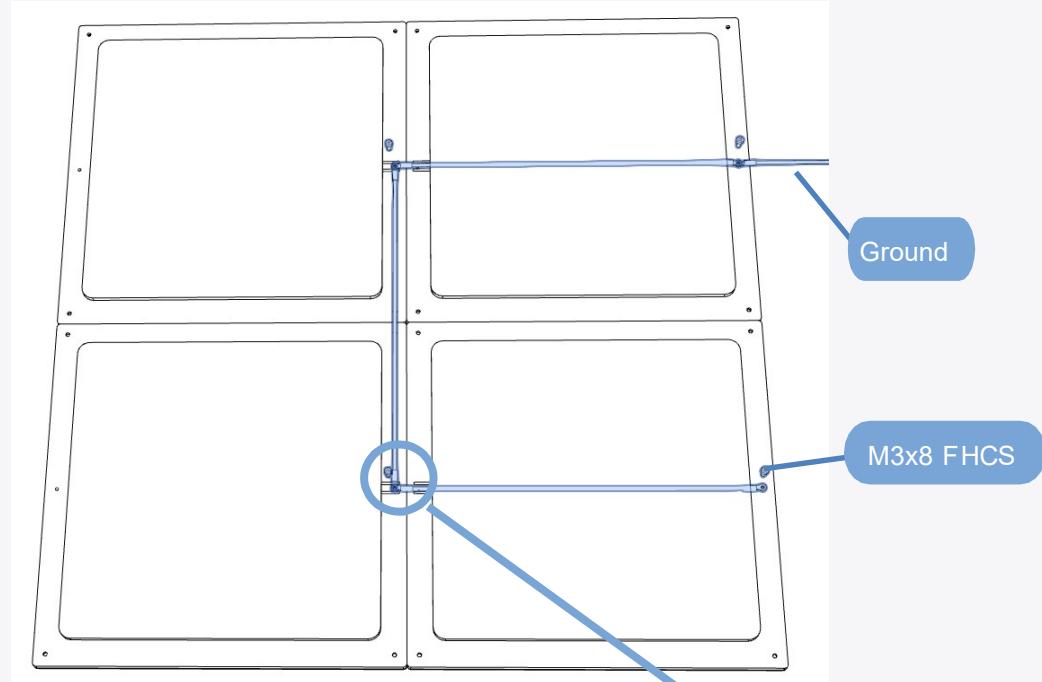
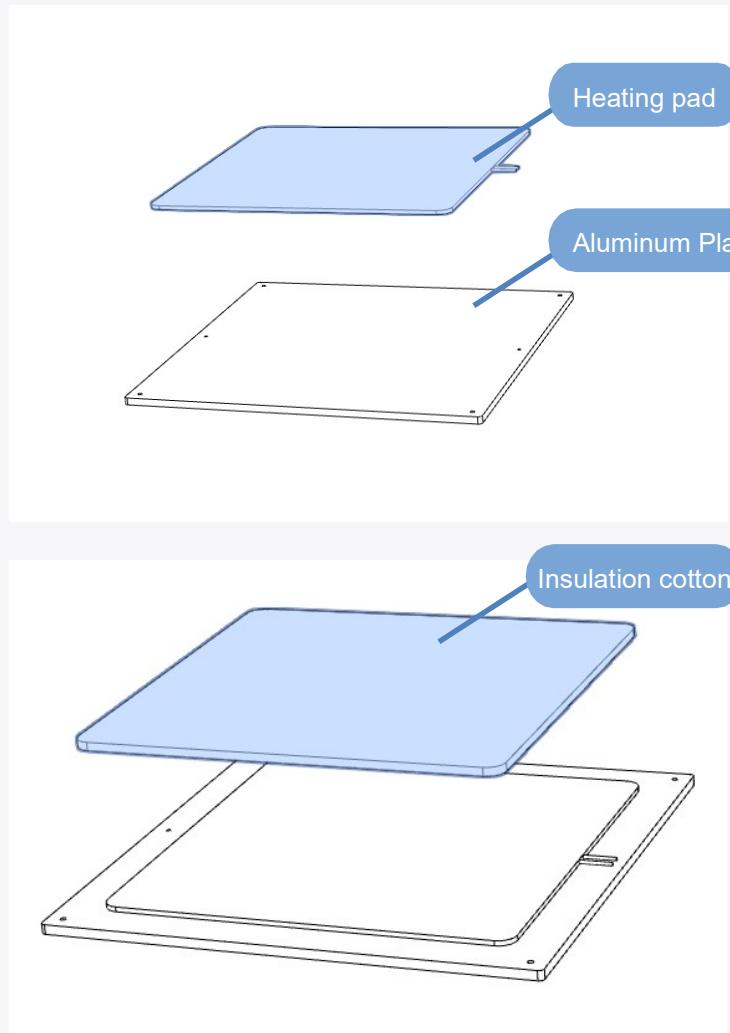
- Place the acrylic sheet on the bottom of the frame;
- Use M3x6 BHCS to fix the acrylic sheet to the profile frame;

**ASSEMBLY**

- Place an M3 ball nut in the profile groove;
- Put the spring through the black nylon isolation column and place it in the acrylic plate groove;
- The hole of the ball nut should be consistent with the hole of the profile;

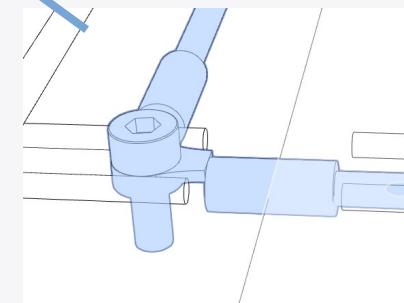
## HEATED BED

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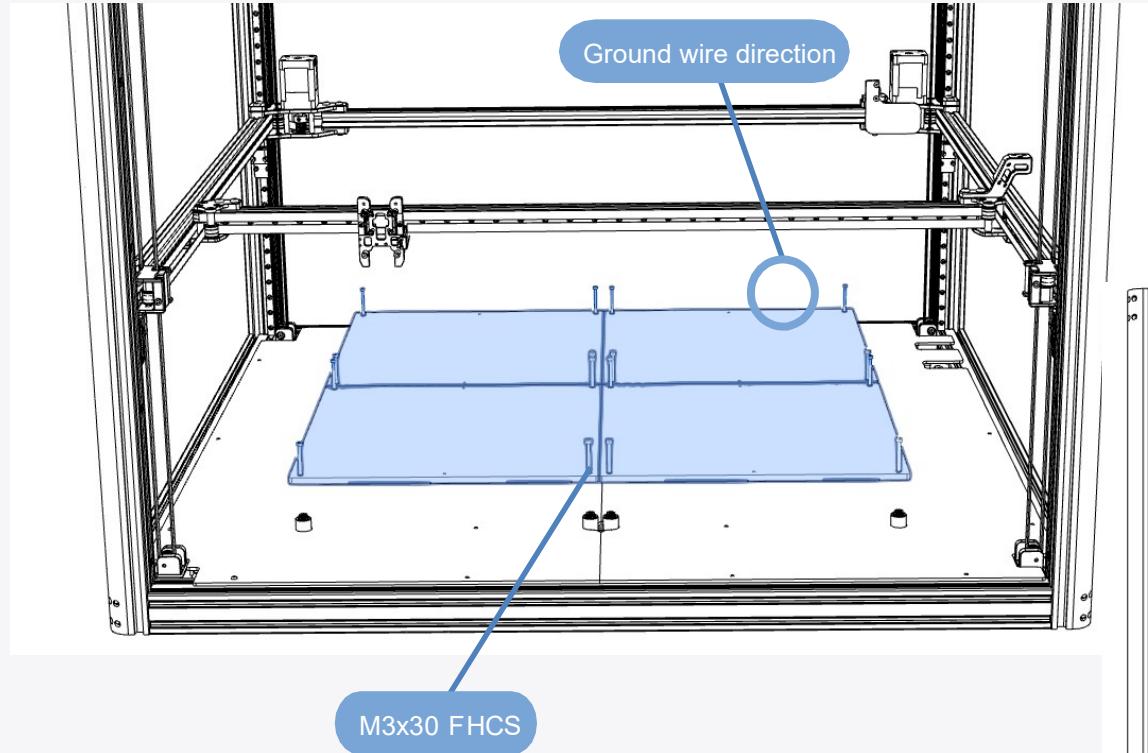
### ASSEMBLY

- Glue the silicone heating pad to the back of the hot bed in the center;
- Glue the insulation cotton to the silicone heating pad;
- Use the cylindrical head hexagon socket M3x8 screw to connect the hot bed ground wire;



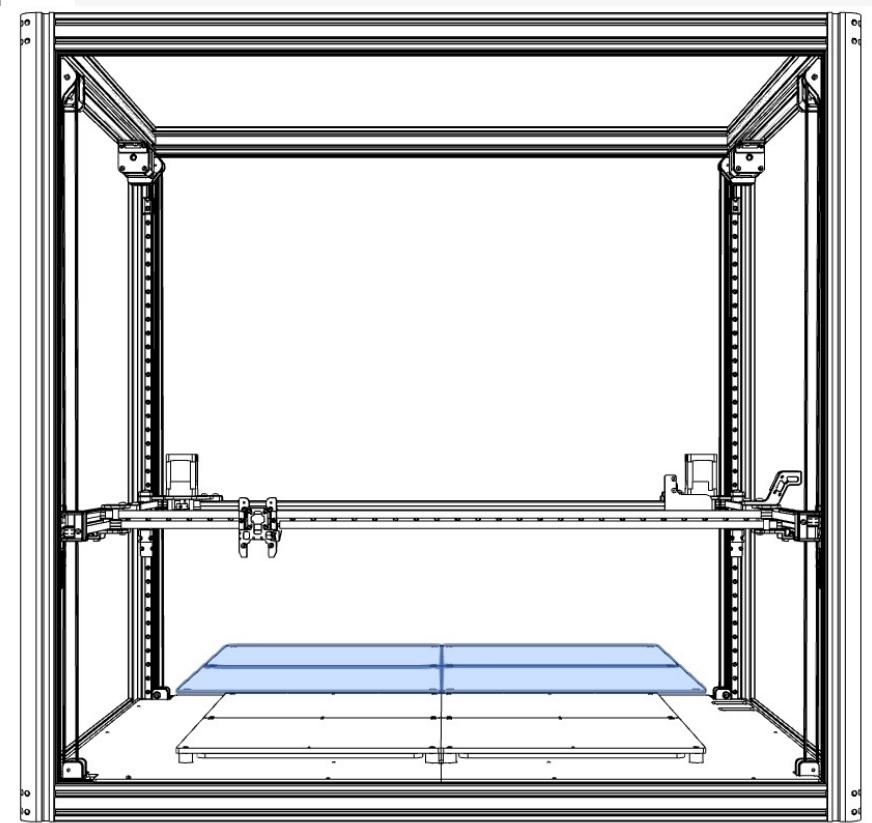
## HEATED BED

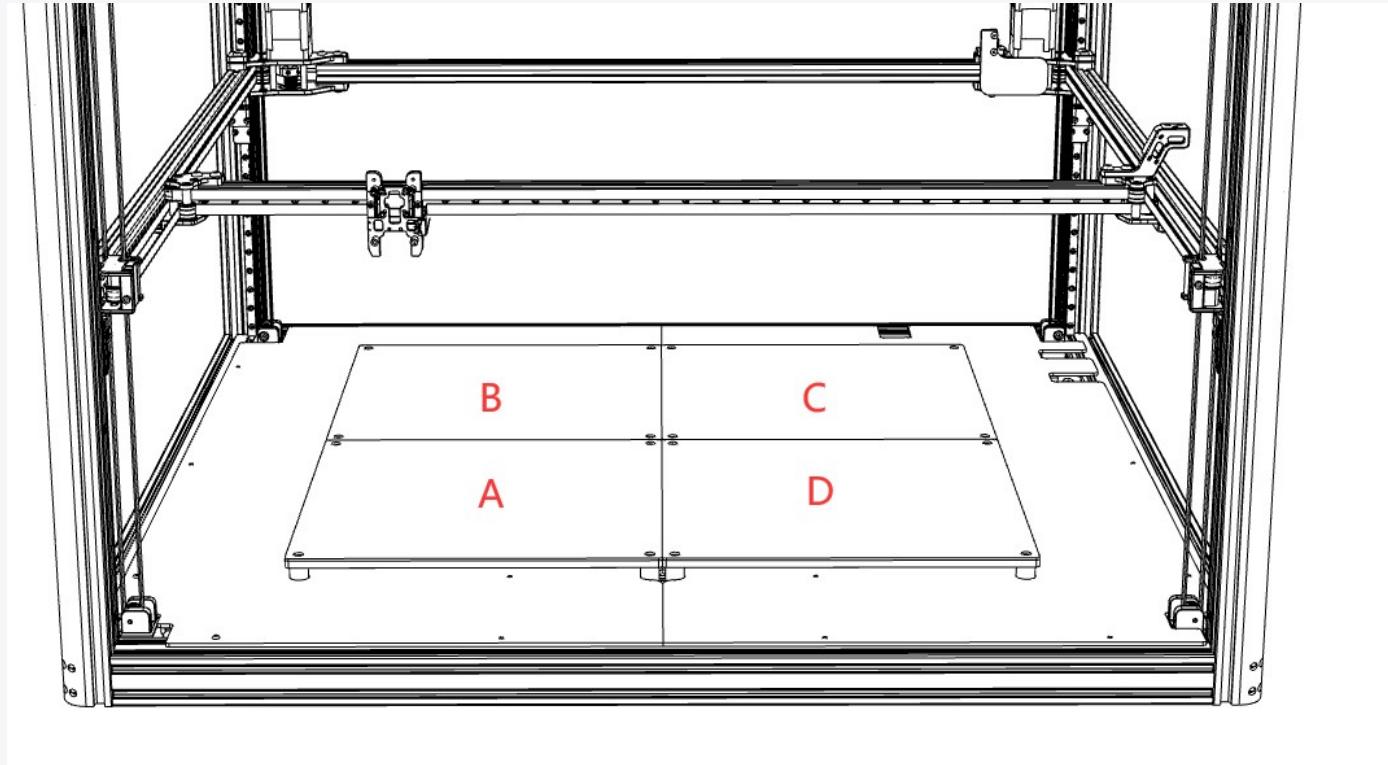
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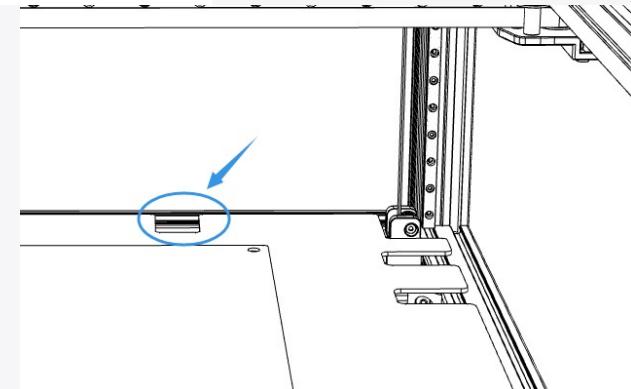
### ASSEMBLY

- Place the 4 hotbeds on the springs;
- Use the M3x30 FHCS screws to tighten, and screw them to the bottom;
- Stick the 4 magnetic tiles of the hotbed to the aluminum plate and scrape them flat without bubbles;



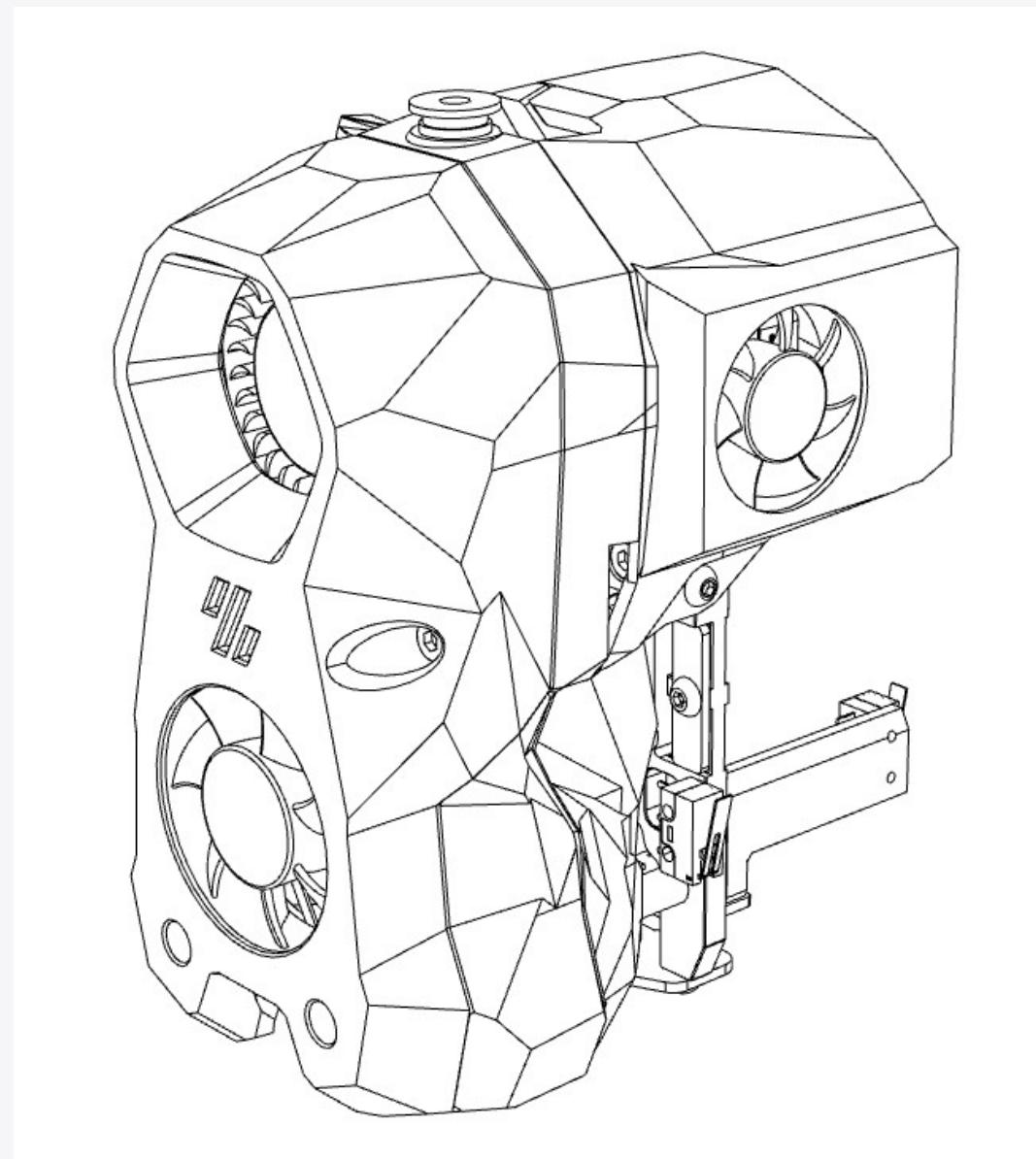
**ASSEMBLY**

- Pass all the wires of the hot bed through this hole;
- And mark the power cord and thermistor wire of the hot bed with sticky notes according to the diagram for later wiring;



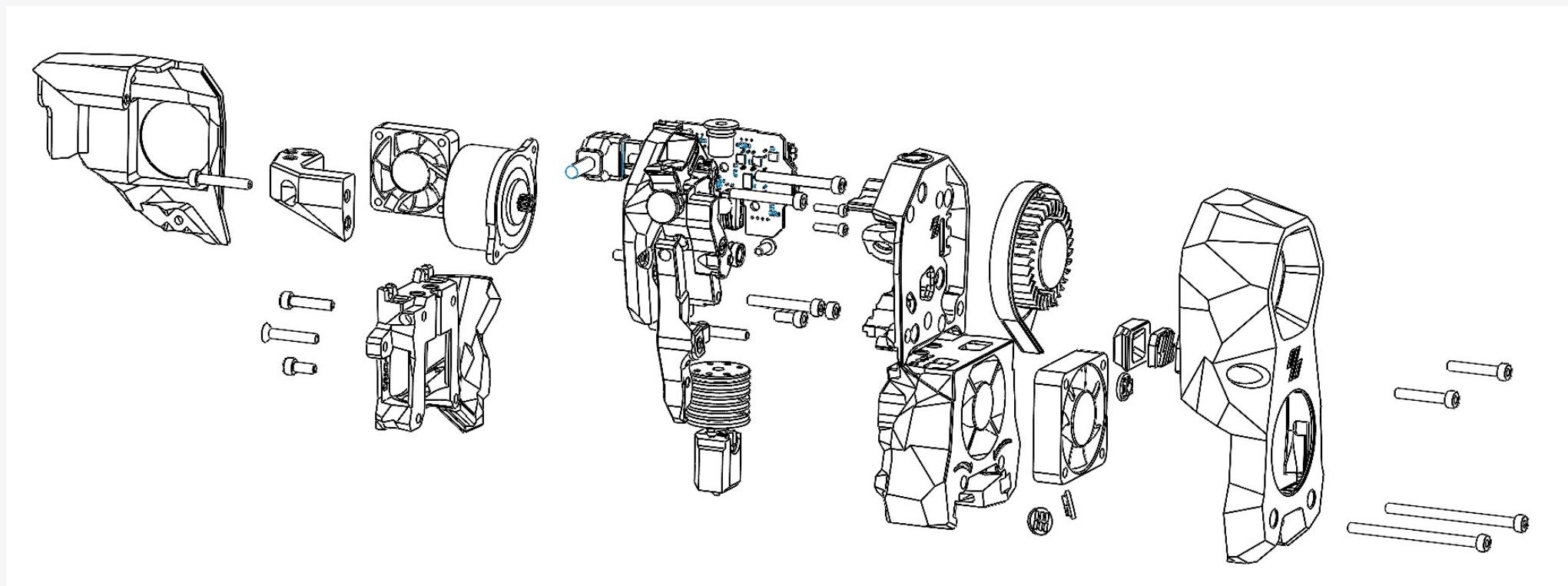
AFTERBURNER

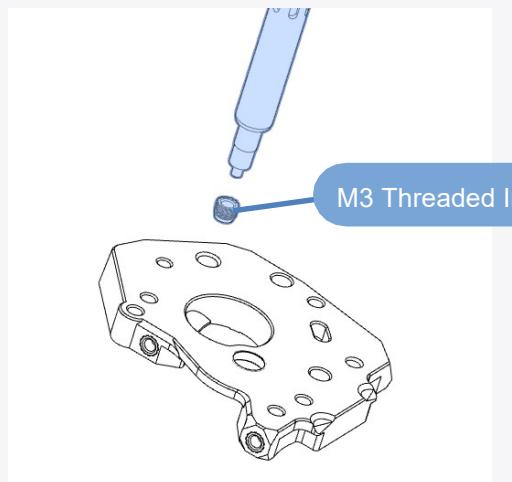
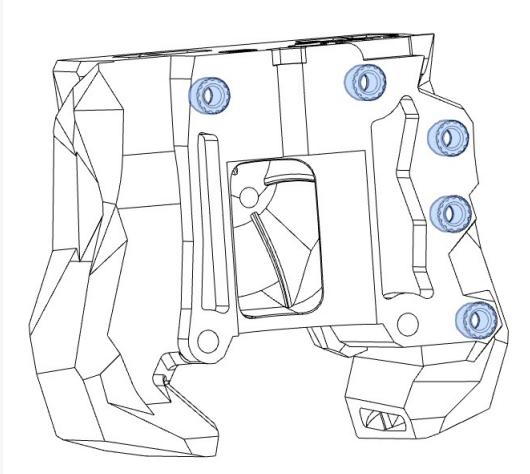
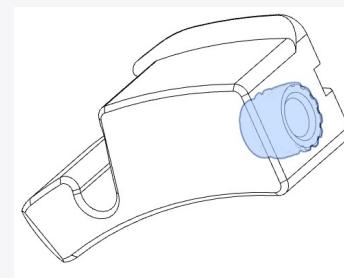
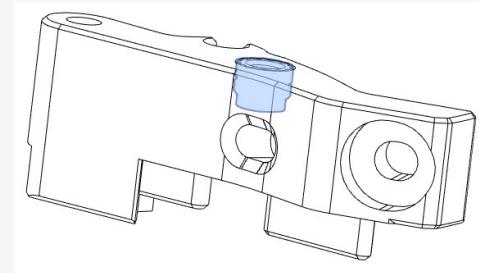
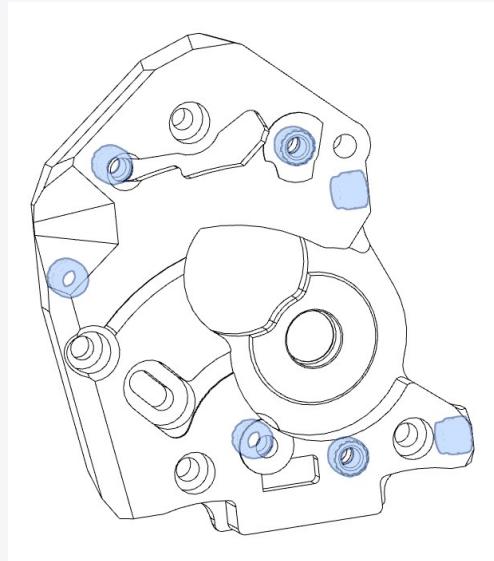
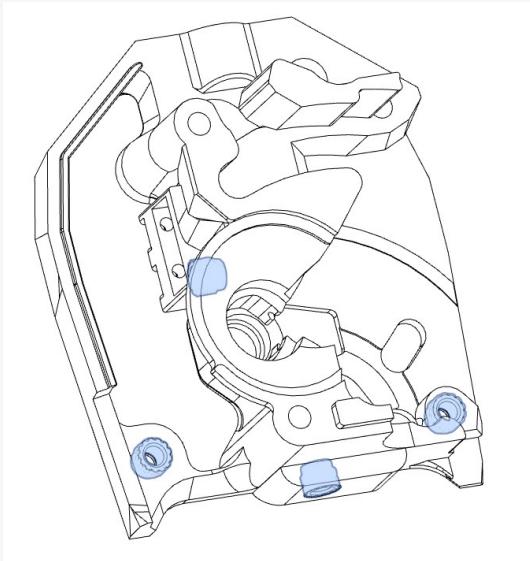
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AFTERBURNER

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**ASSEMBLY**

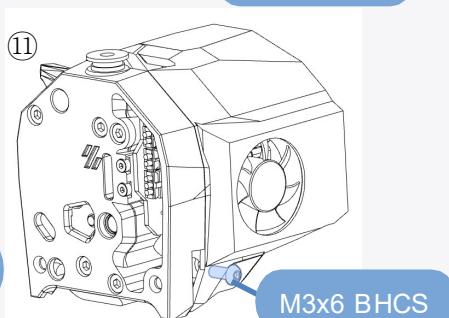
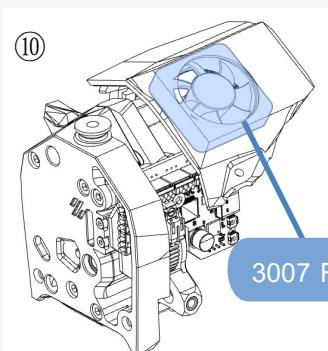
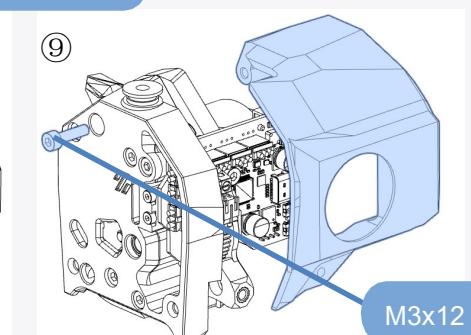
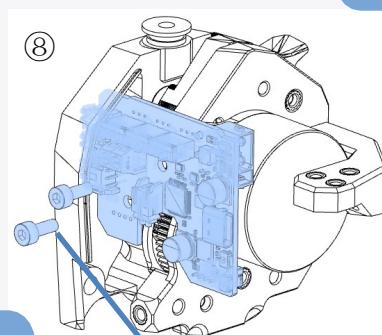
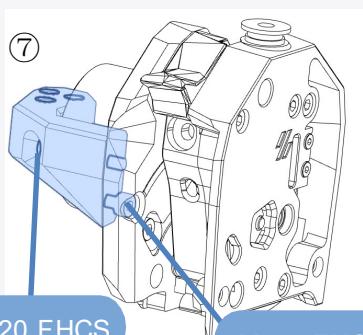
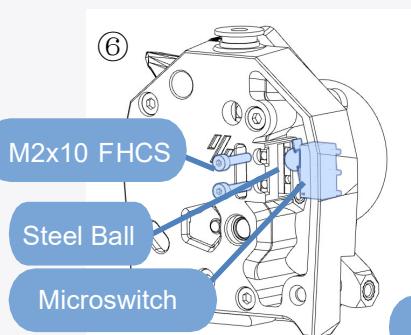
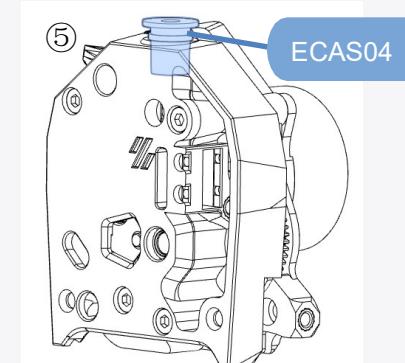
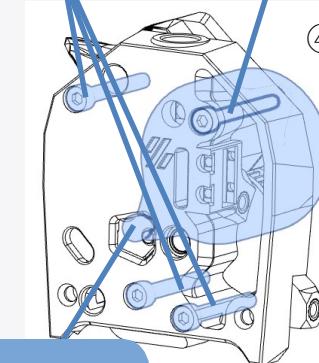
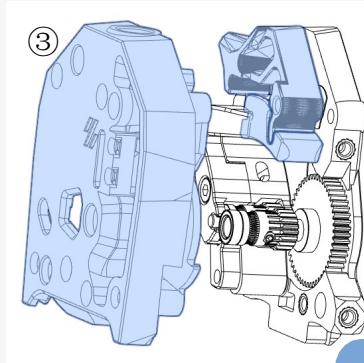
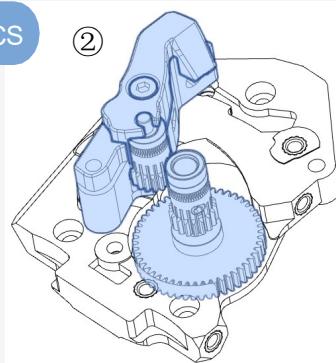
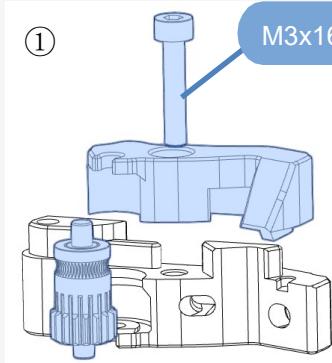
- Use a soldering iron to heat-weld the printed parts;

## AFTERBURNER

M3x16 FHCS

M3x30 FHCS

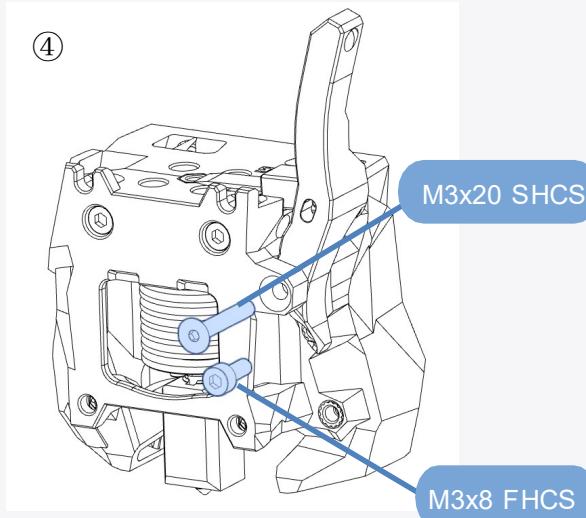
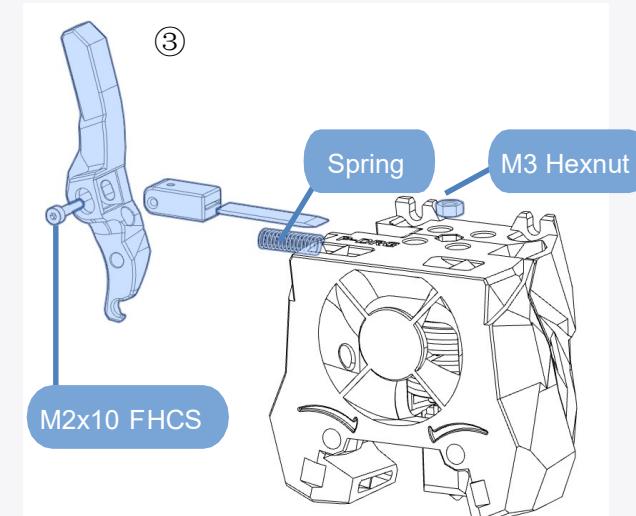
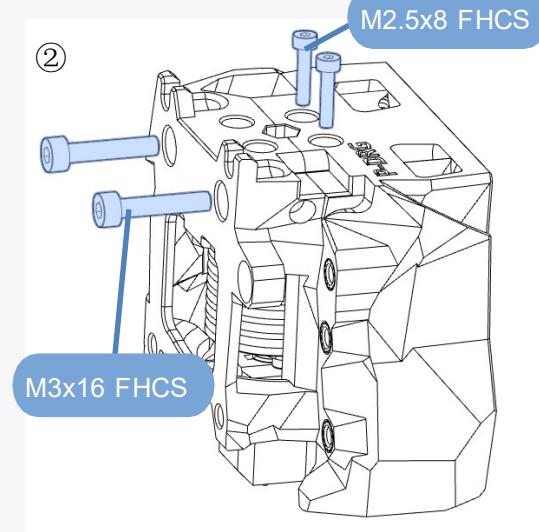
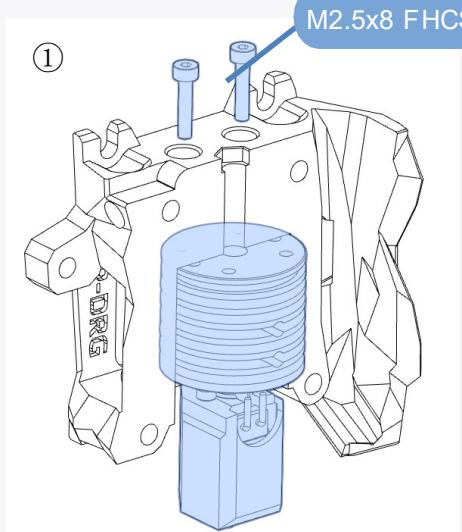
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## ASSEMBLY

- Assemble according to the diagram;
- Step ⑥ needs to flatten the pins of the micro switch;
- Step ⑧ needs to insert the motor terminal into the SB can board first;
- Complete the assembly together with the reference wiring diagram;

## AFTERBURNER



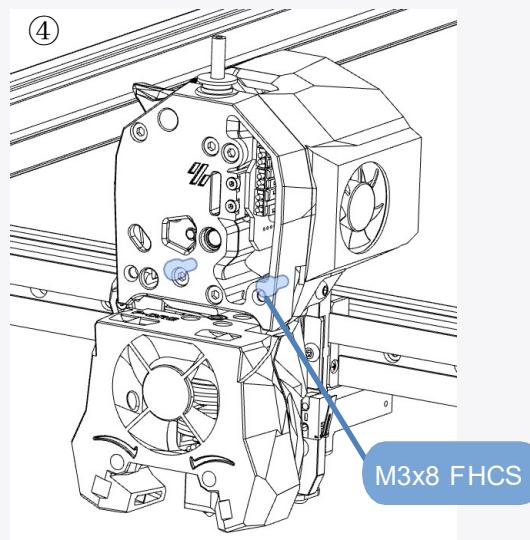
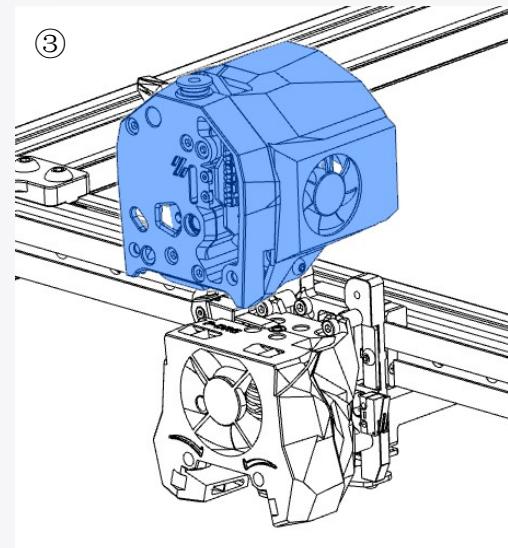
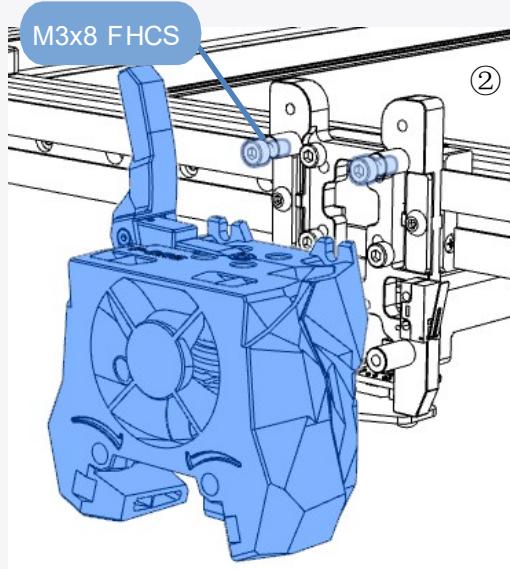
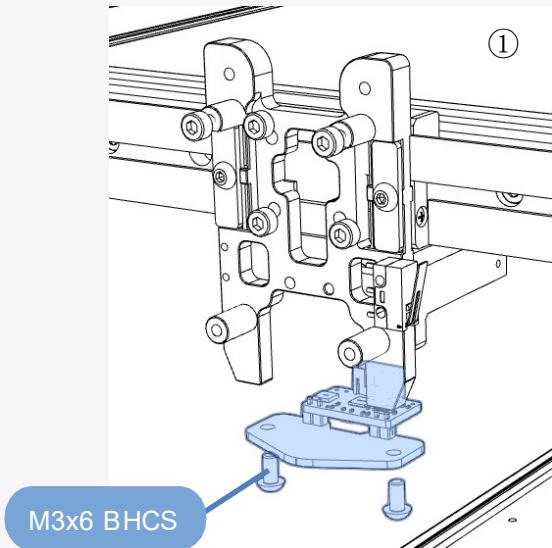
## ASSEMBLY

- Assemble according to the diagram;
- The blade in step ③ needs to be pressed in. The blade must be sharp and pay attention to safety.;
- Complete the assembly together with the reference wiring diagram;

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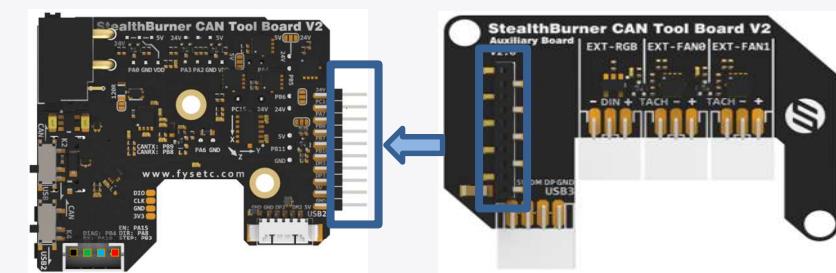
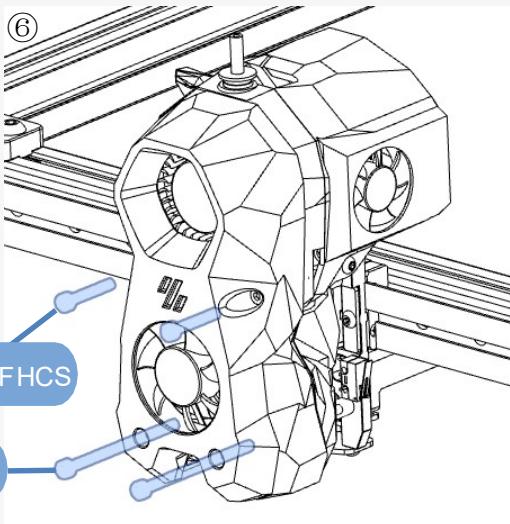
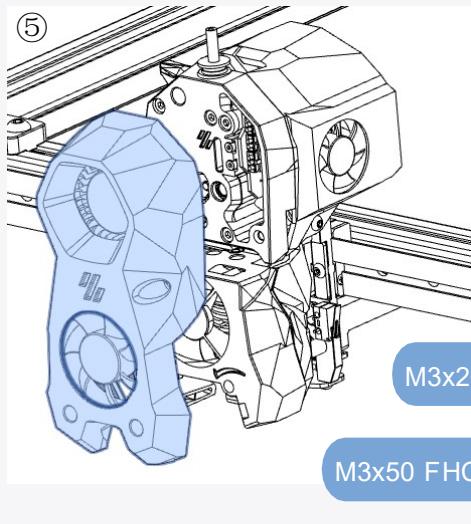
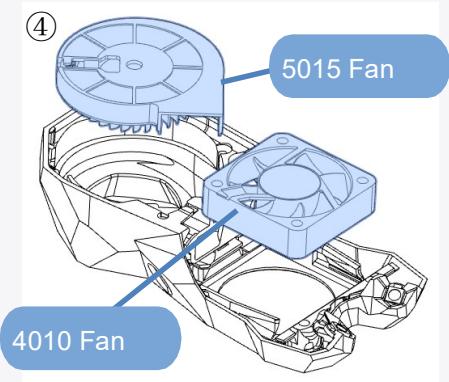
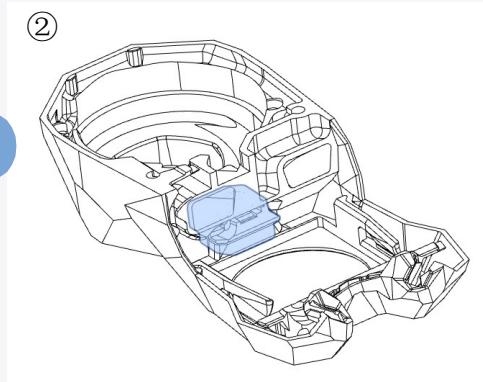
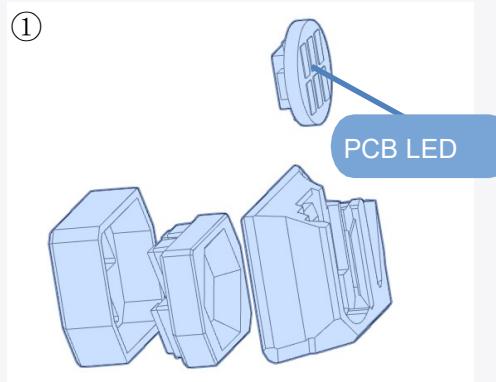
## AFTERBURNER

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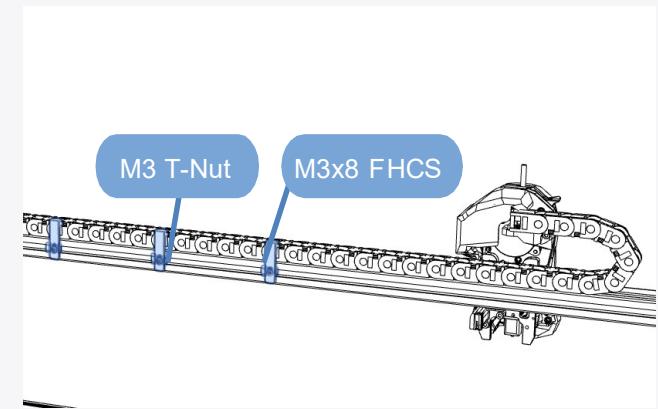
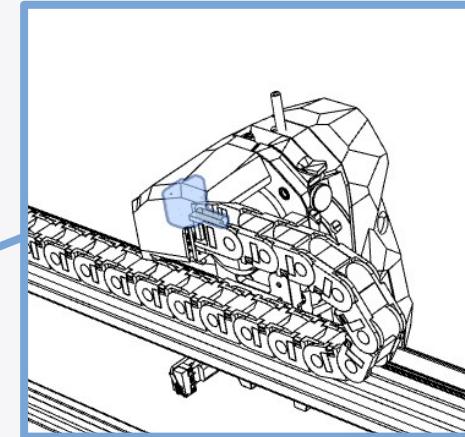
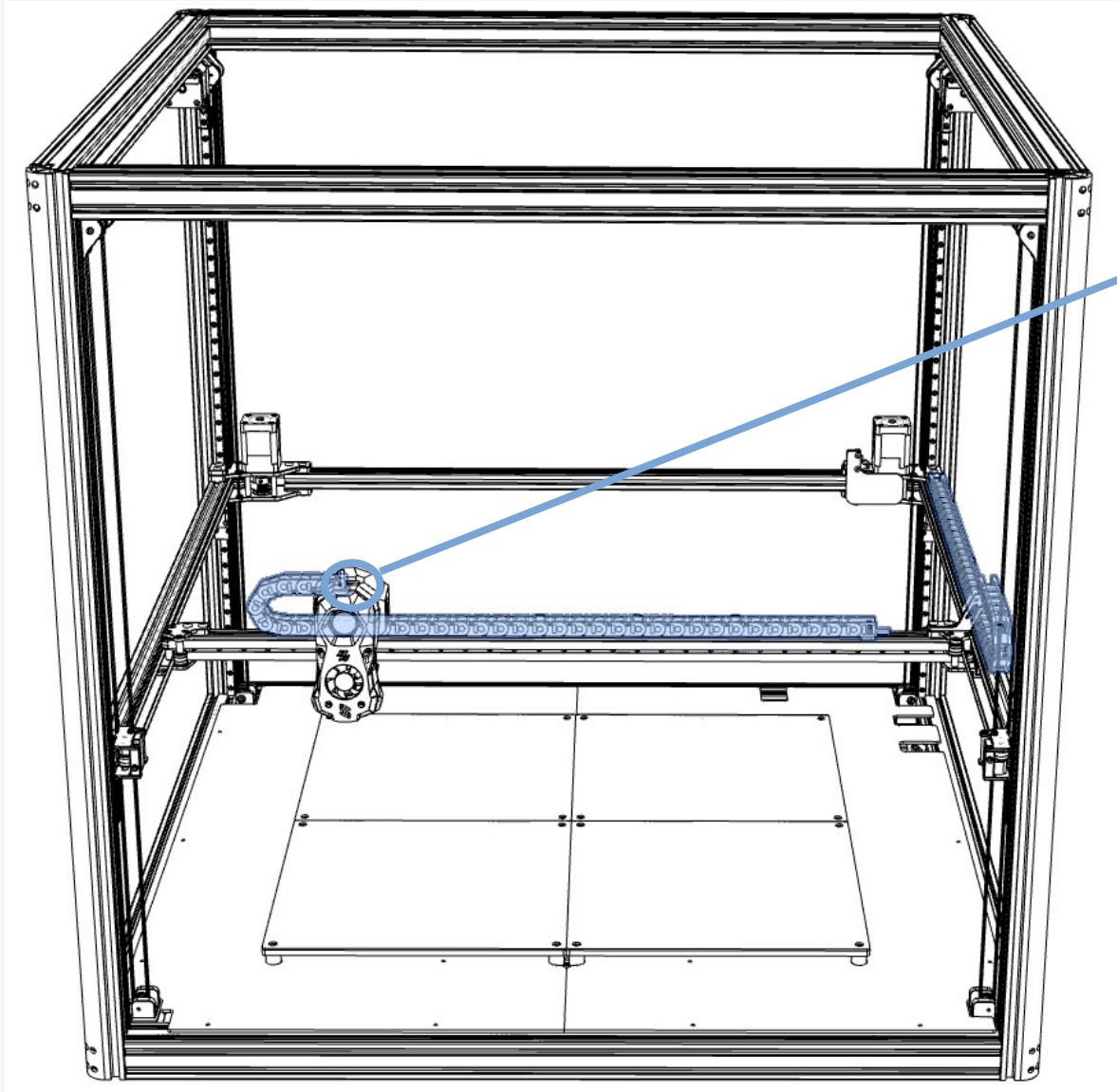
## ASSEMBLY

- Assemble according to the diagram;
- Complete the assembly together with the reference wiring diagram;



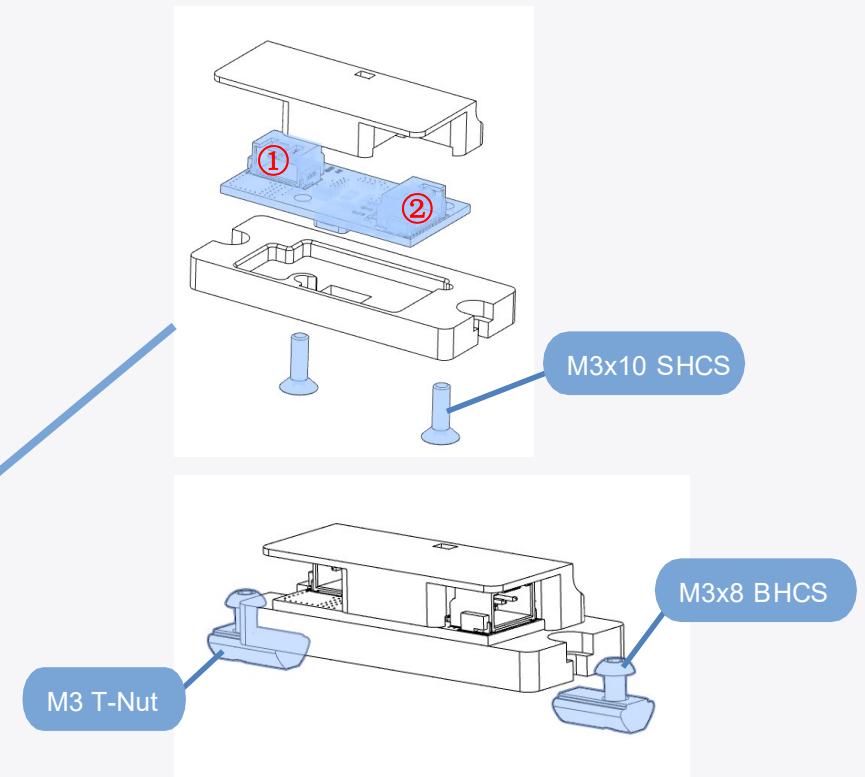
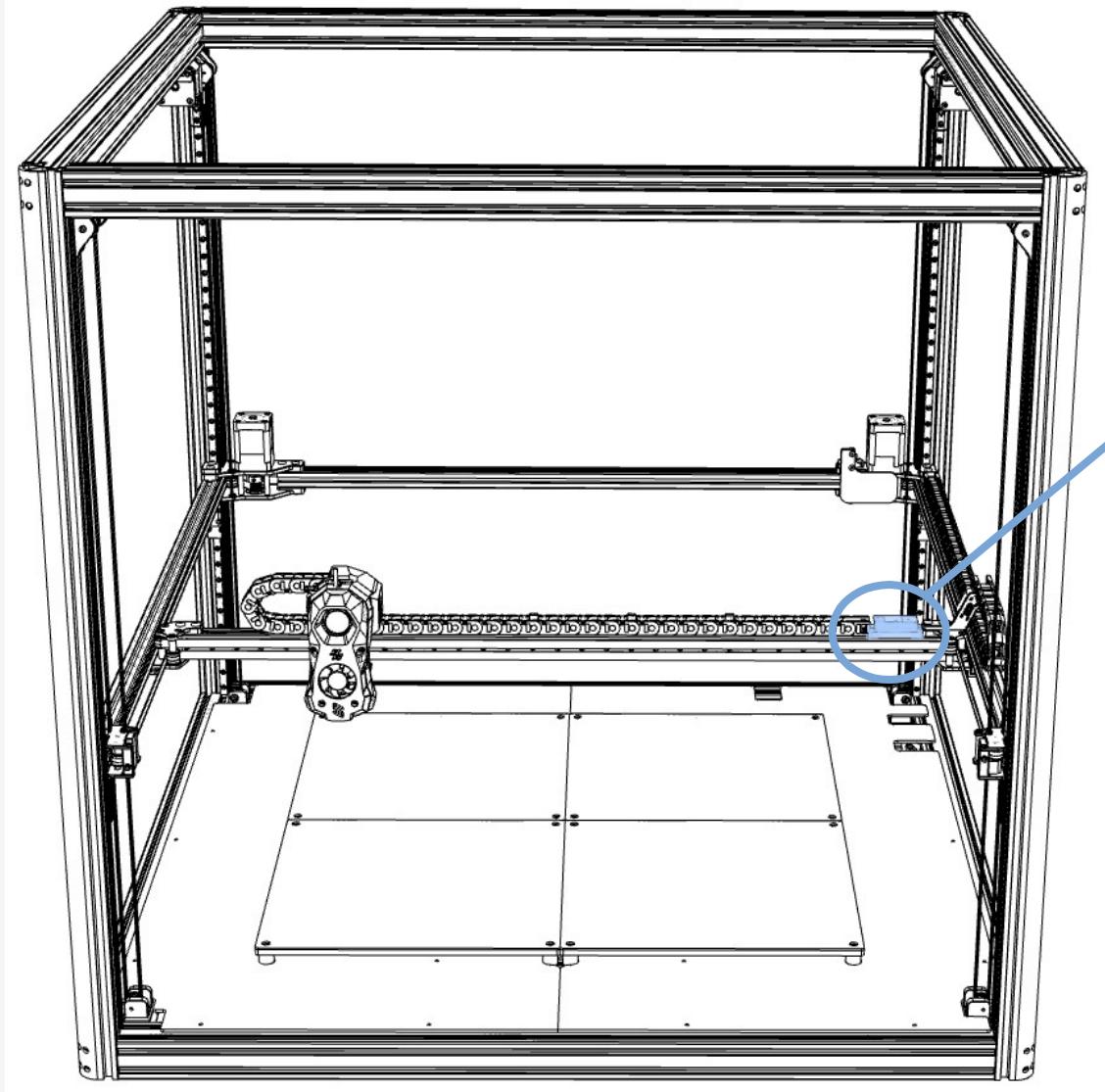
### ASSEMBLY

- Assemble according to the diagram;
- Step ④: The CAB expansion board needs to be installed behind the 5015 Fan;
- Step ⑤: The CAN expansion board needs to be connected to the CAN board pins;
- Complete the assembly together with the reference wiring diagram;



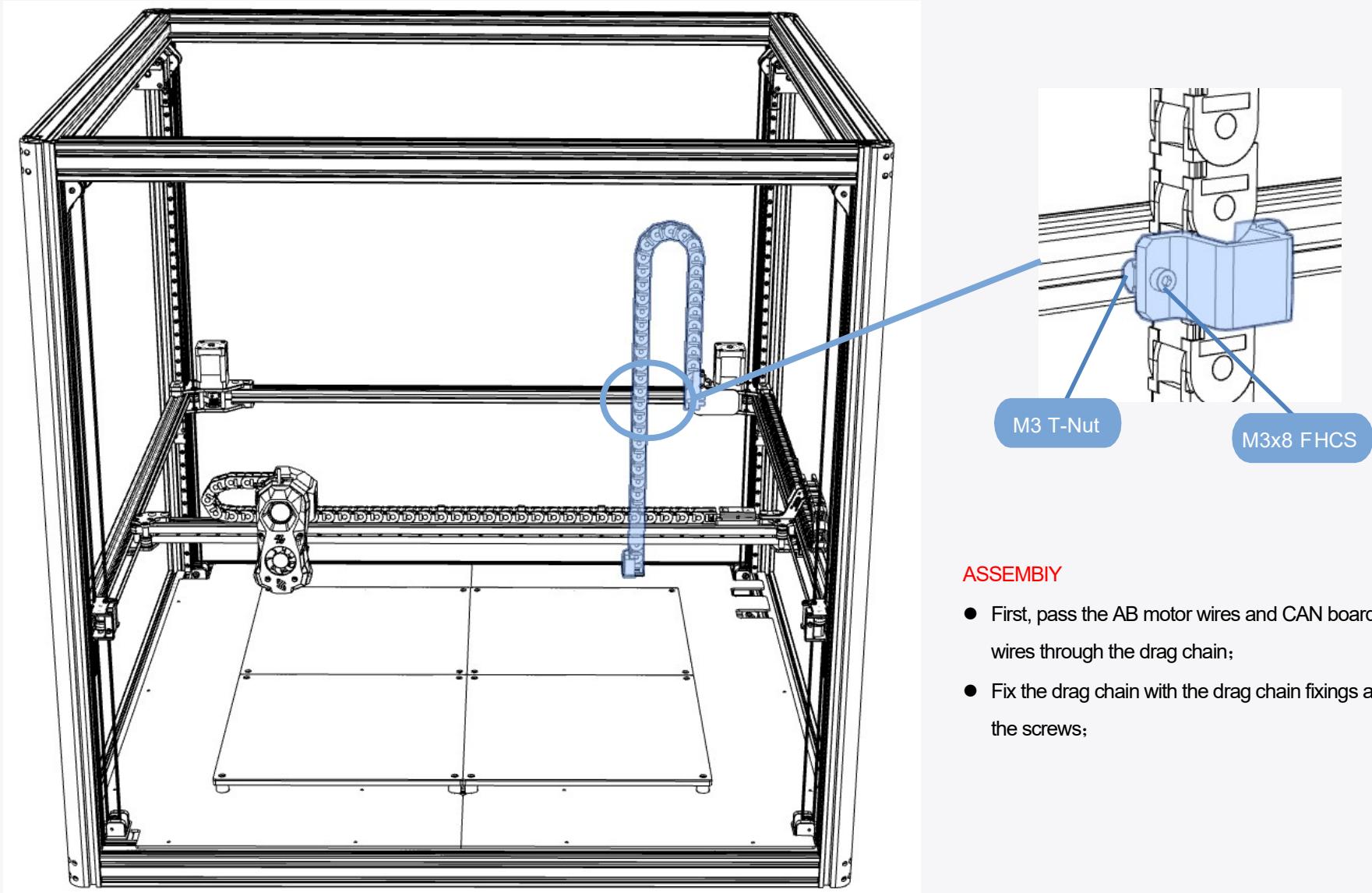
### ASSEMBLY

- The CAN board line is inserted from the drag chain;
- Use M3x8 BHCS screws to fix one end of the drag chain to the extruder head and the other end to the profile;
- The back of the XY drag chain is fixed with a drag chain buckle;



#### ASSEMBLY

- Assemble according to the diagram;
- The light bar cable is connected to port ①;
- Port ② faces the drag chain and uses the power cable to connect to the CAN board;



ASSEMBLY

- First, pass the AB motor wires and CAN board connection wires through the drag chain;
- Fix the drag chain with the drag chain fixings and tighten the screws;

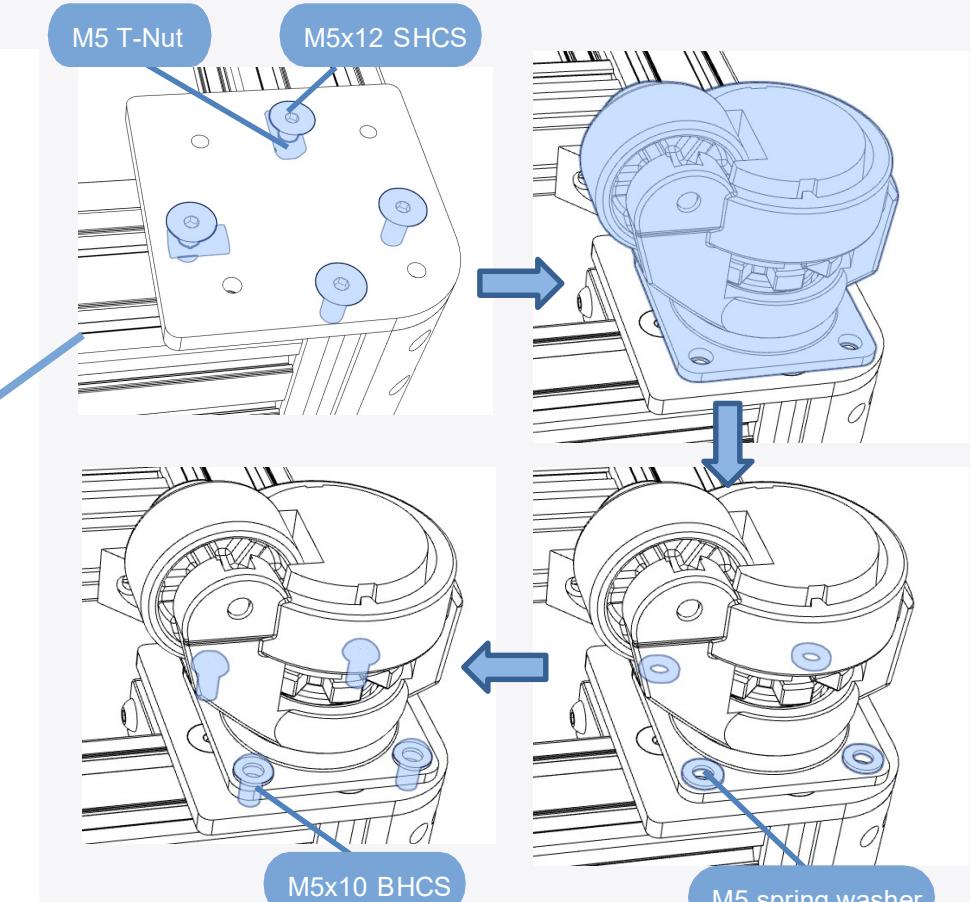
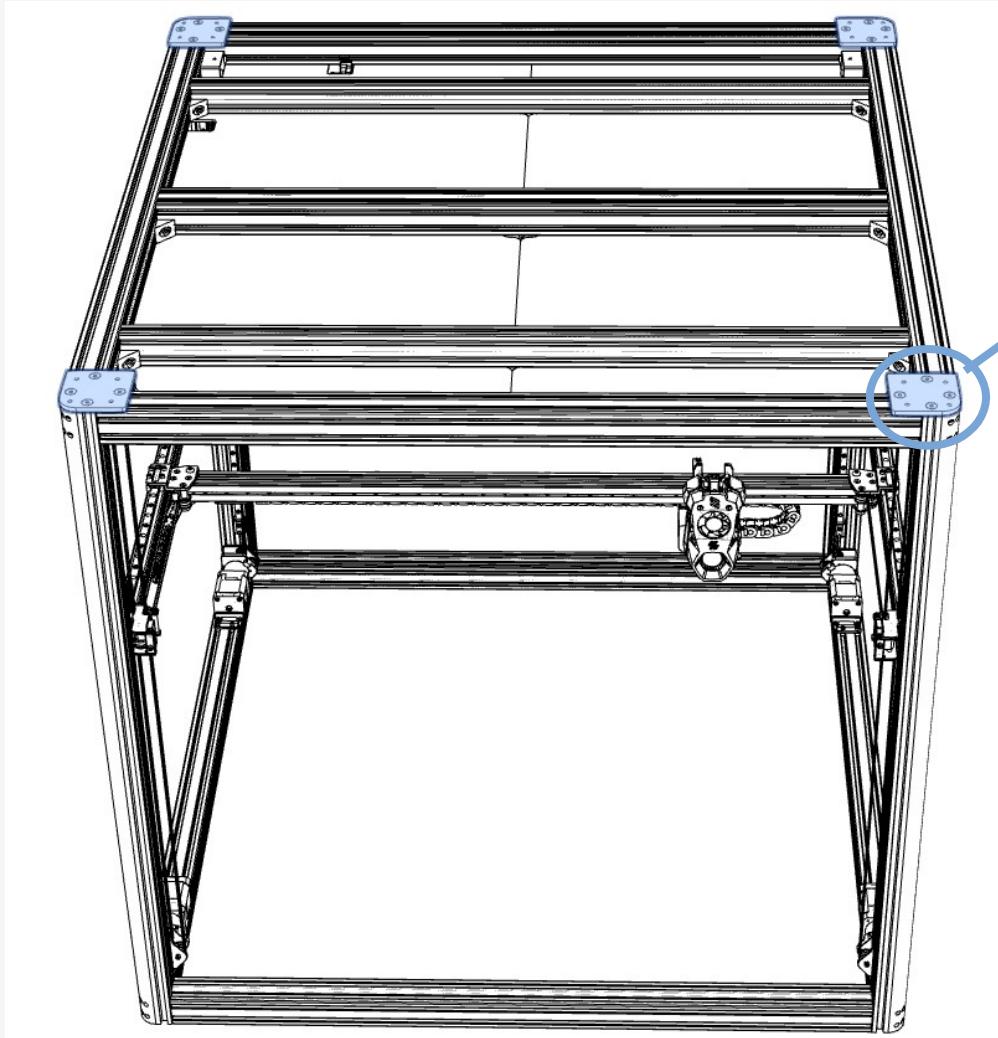
Caster Installation

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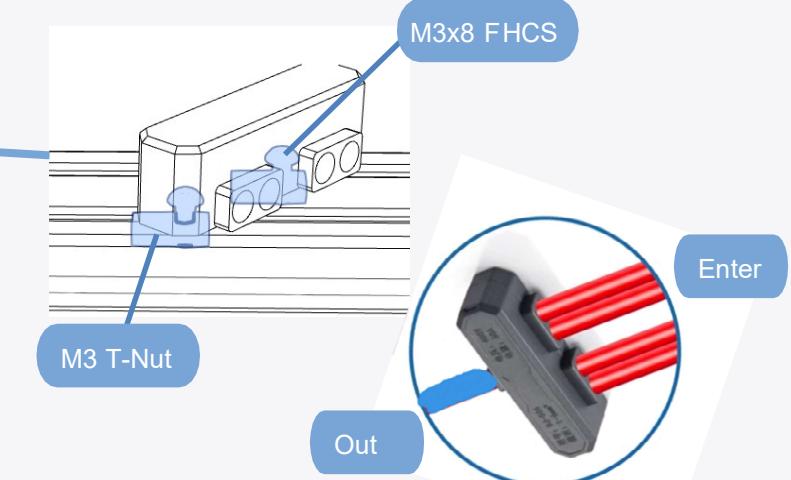
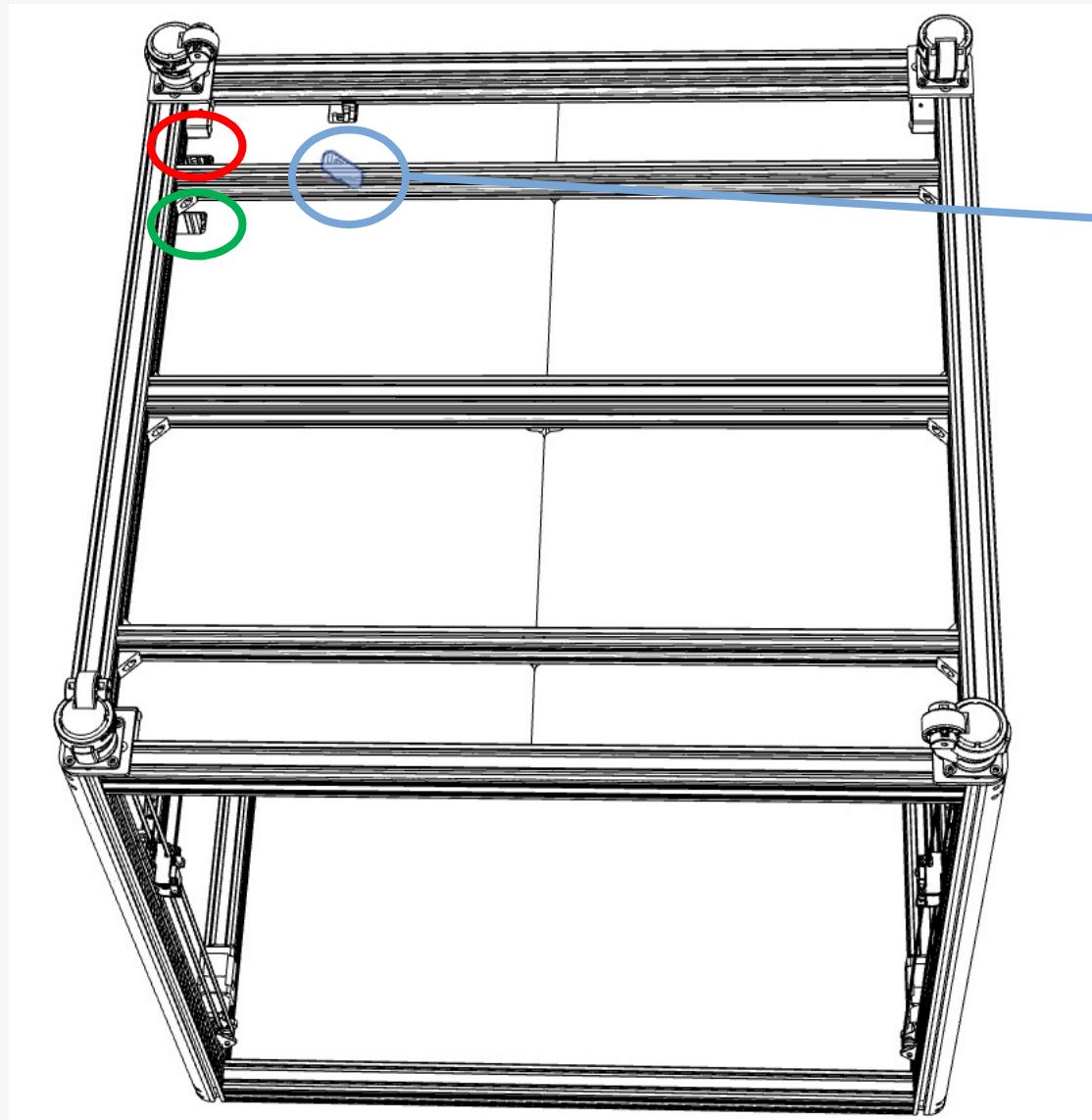
## Caster Installation

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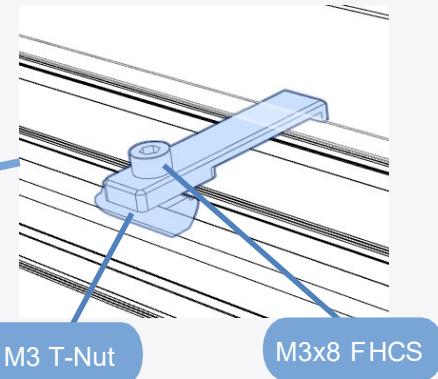
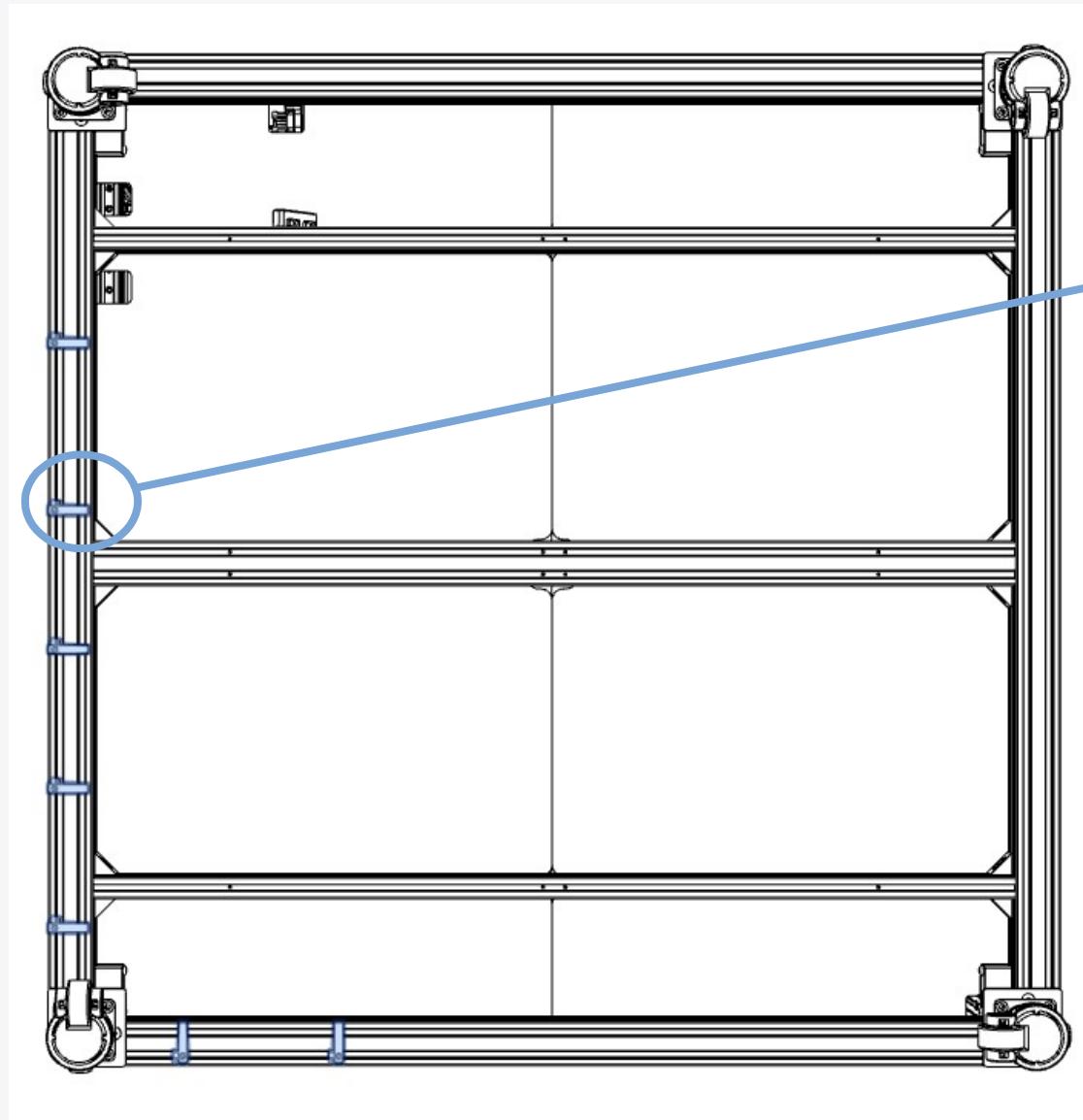
### ASSEMBLY

- Turn the machine over and install the caster fixing plate first;
- Then install the casters and tighten the screws;
- Install 4 casters in sequence;



### ASSEMBLY

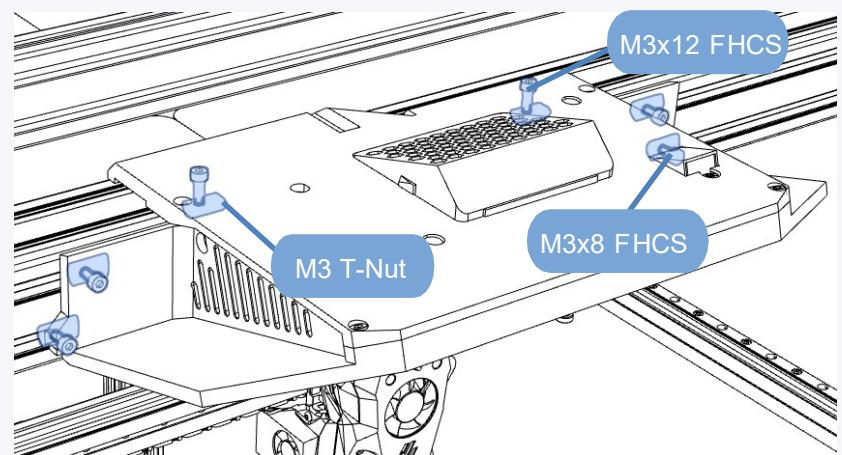
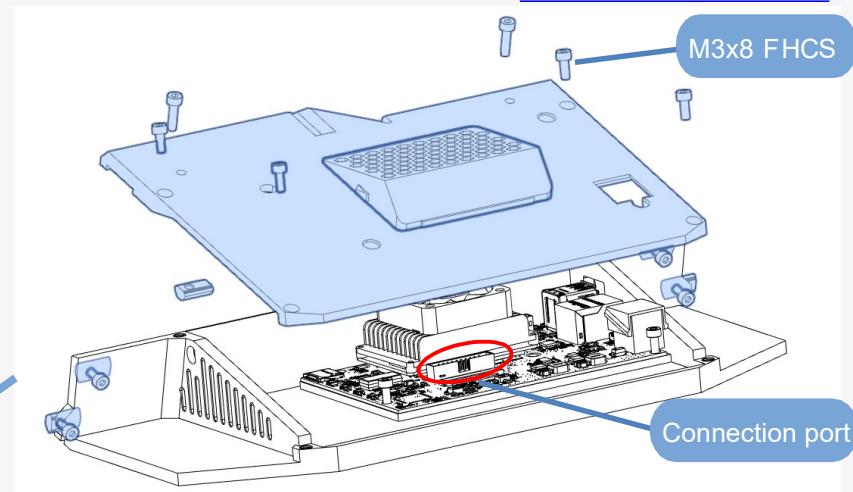
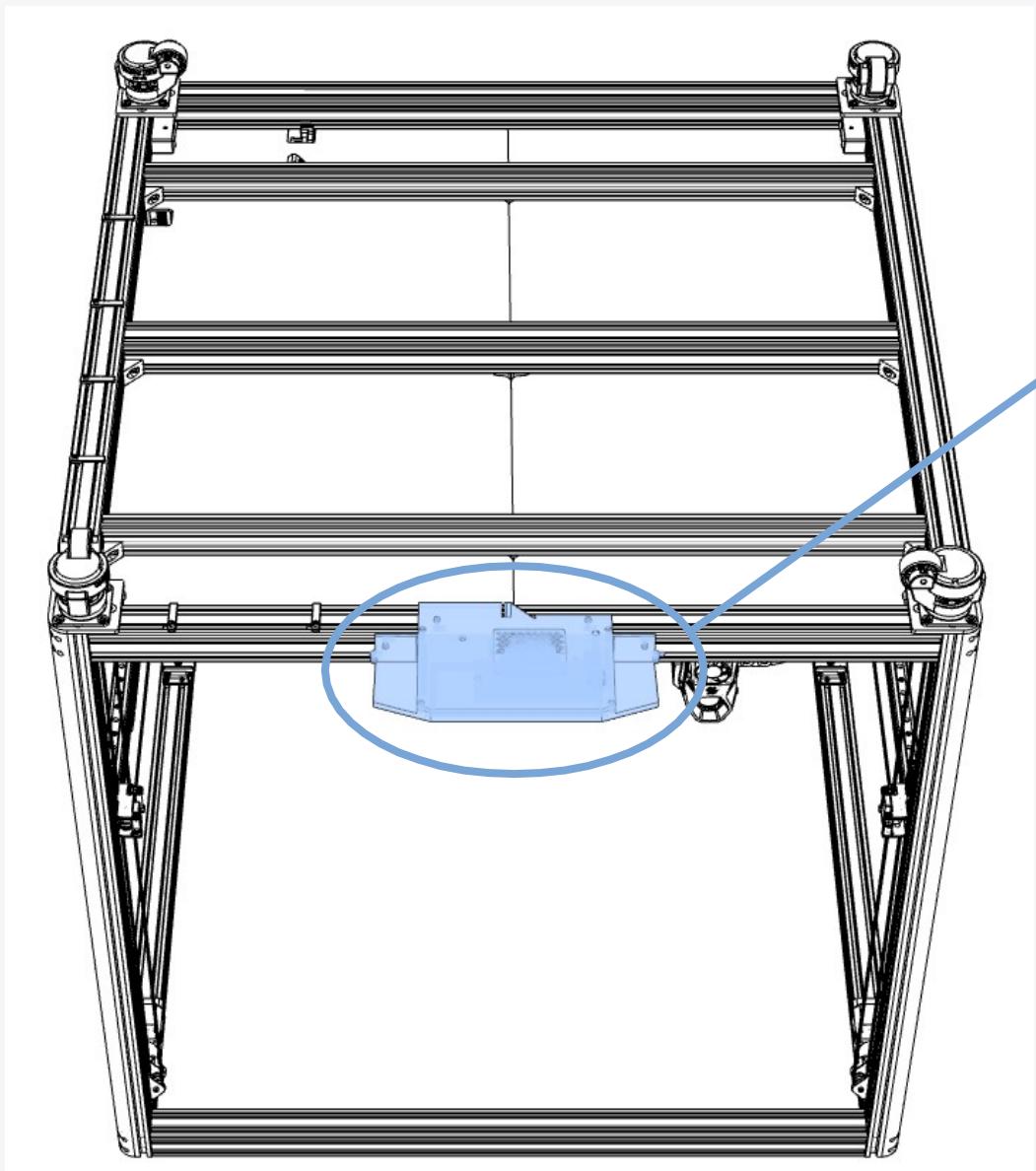
- Connect the 4 input wires of the 4 hotbeds to the wiring terminal, and connect the other end of the wiring terminal to the blue power extension wire;
- And use screws to fix the wiring terminal to the profile;
- The hotbed power wire and motor wire pass through the hole in the red frame;
- The gray display cable passes through the green frame;
- Complete the assembly together with the reference wiring diagram;

**ASSEMBLY**

- The gray cable of the display screen is fixed along the profile;
- The screws are tightened;

LCD

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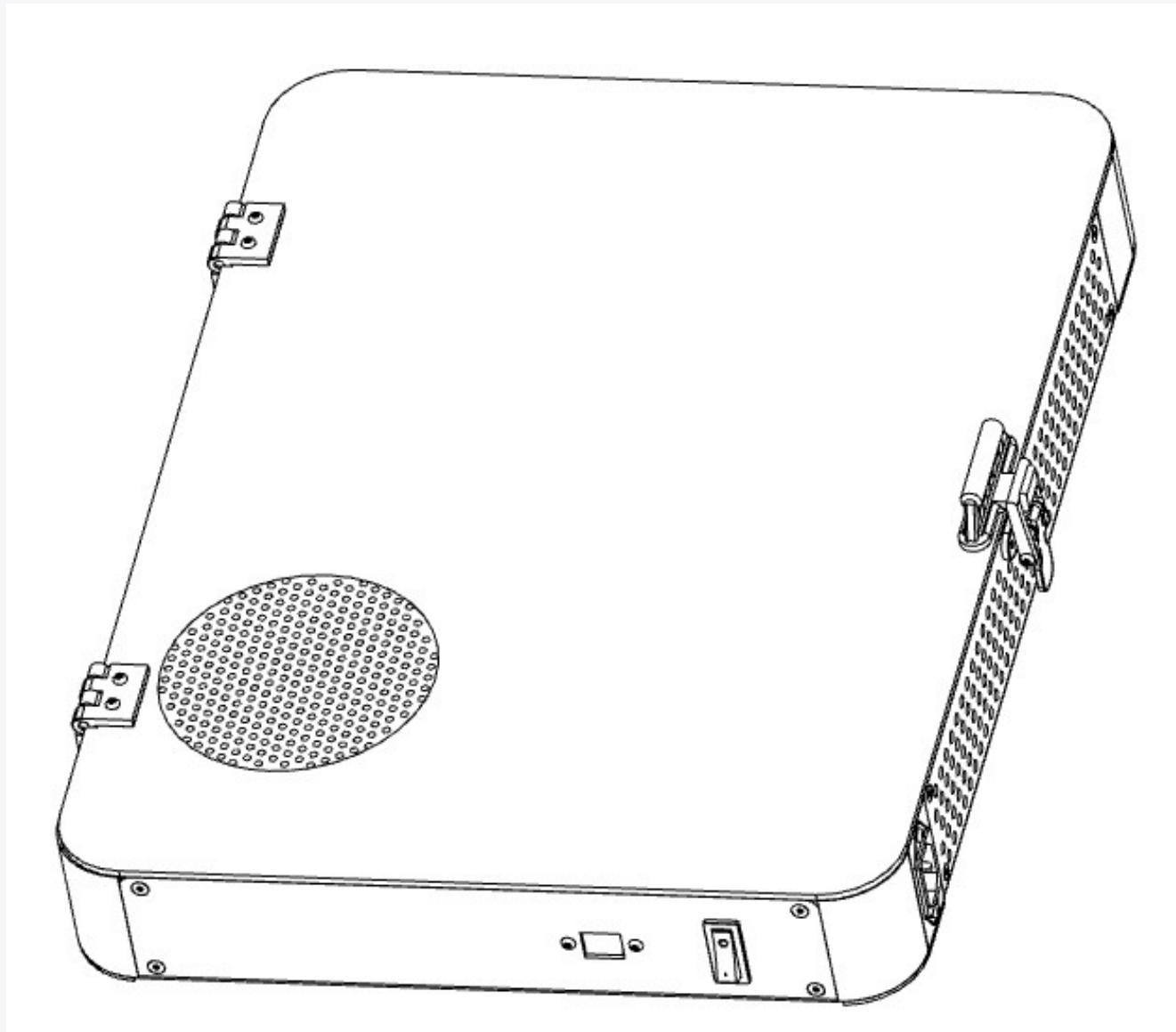


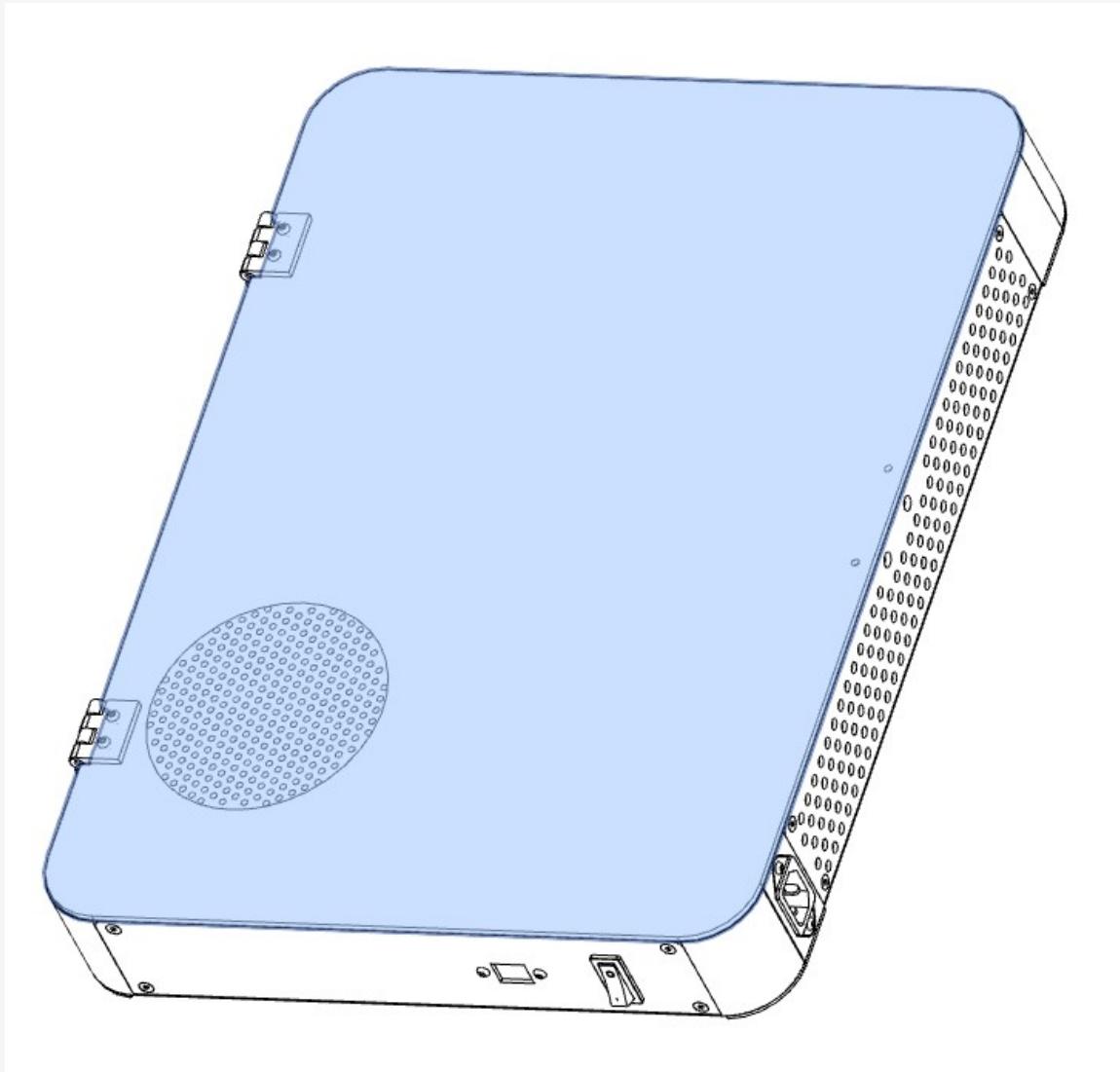
#### ASSEMBLY

- The display has been assembled, and the back cover needs to be removed first;
- Insert one end of the gray cable into the red area on the drawing;
- Tighten the screws and install it on the profile, centering it;

Electric Box

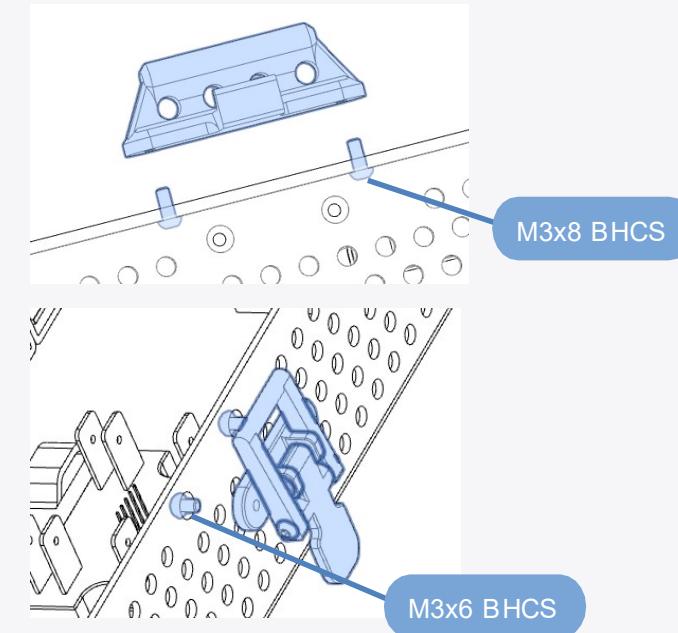
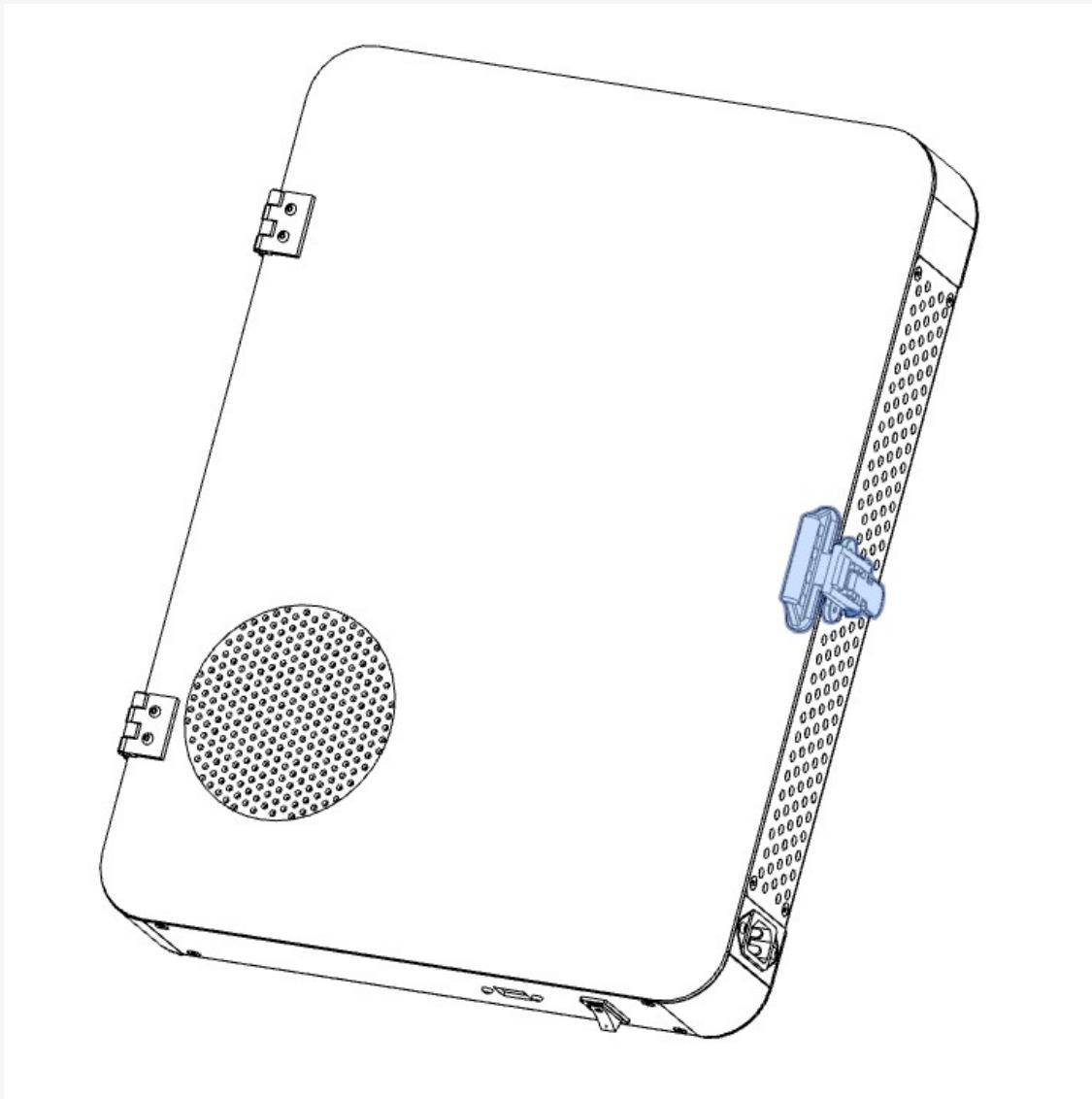
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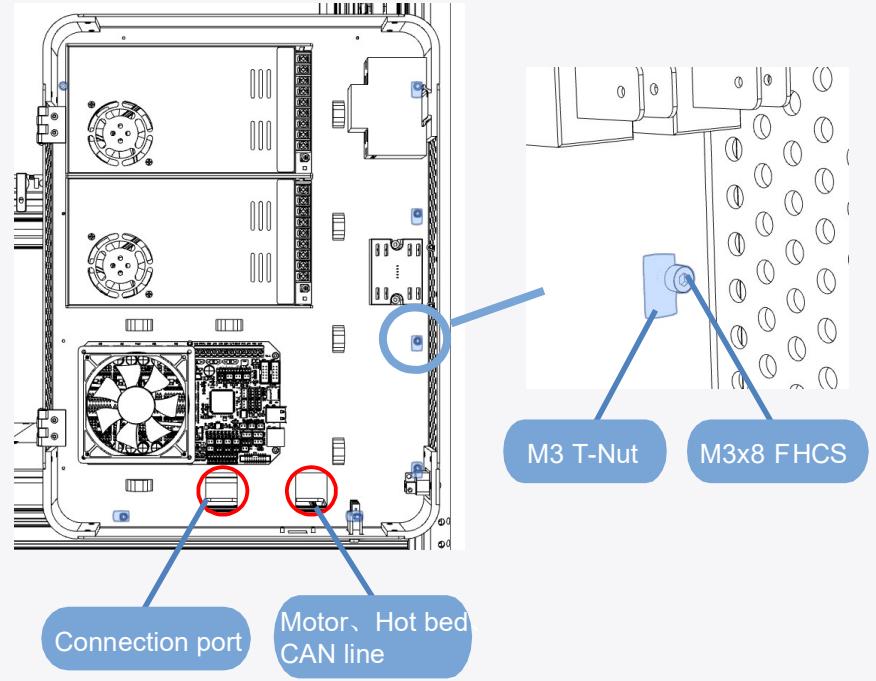
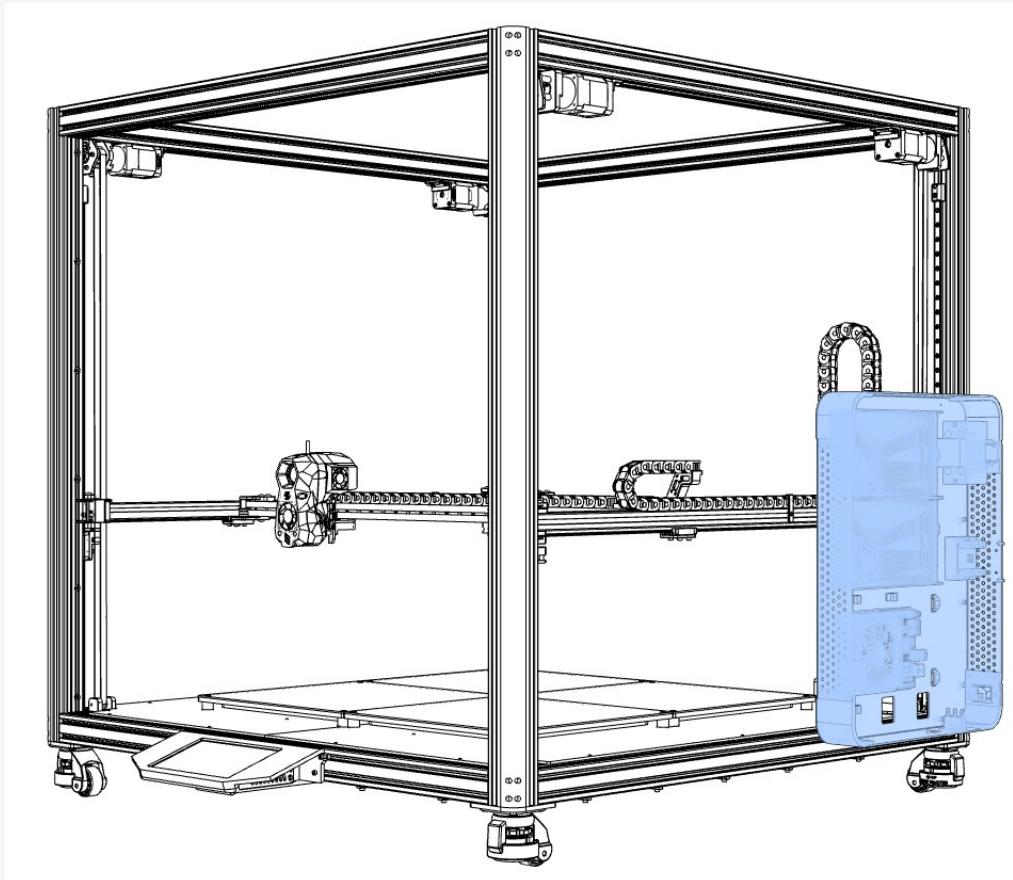
**ASSEMBLY**

- Tear off the protective paper on both sides of the acrylic board;



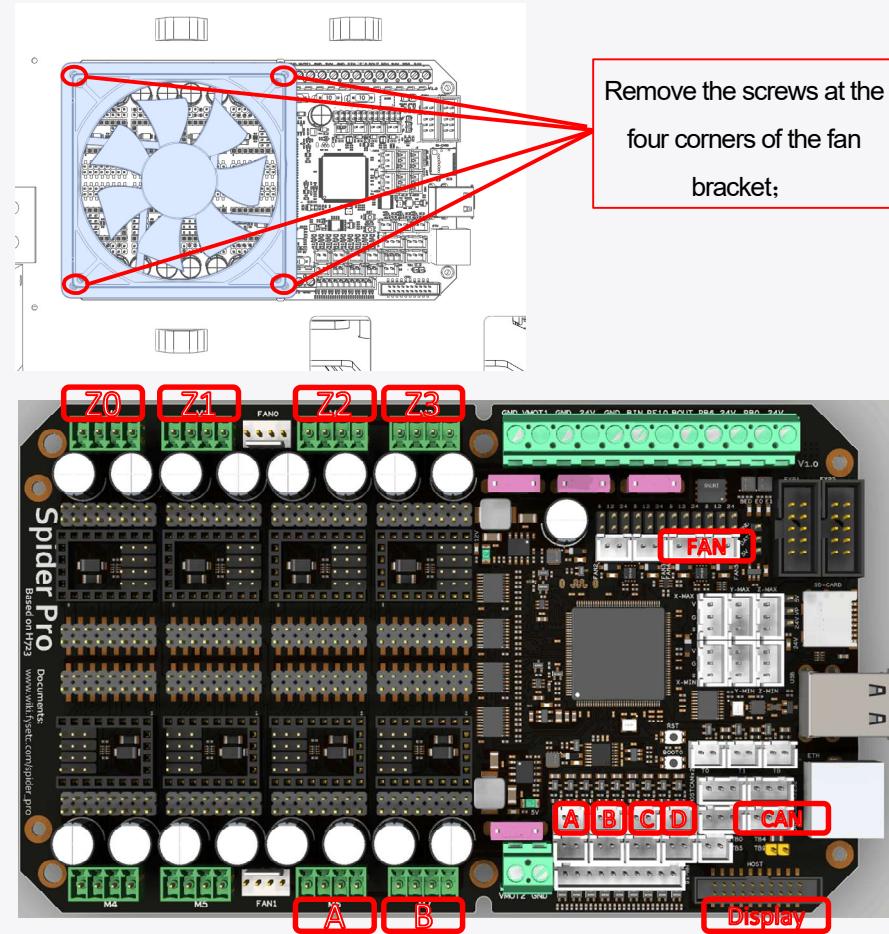
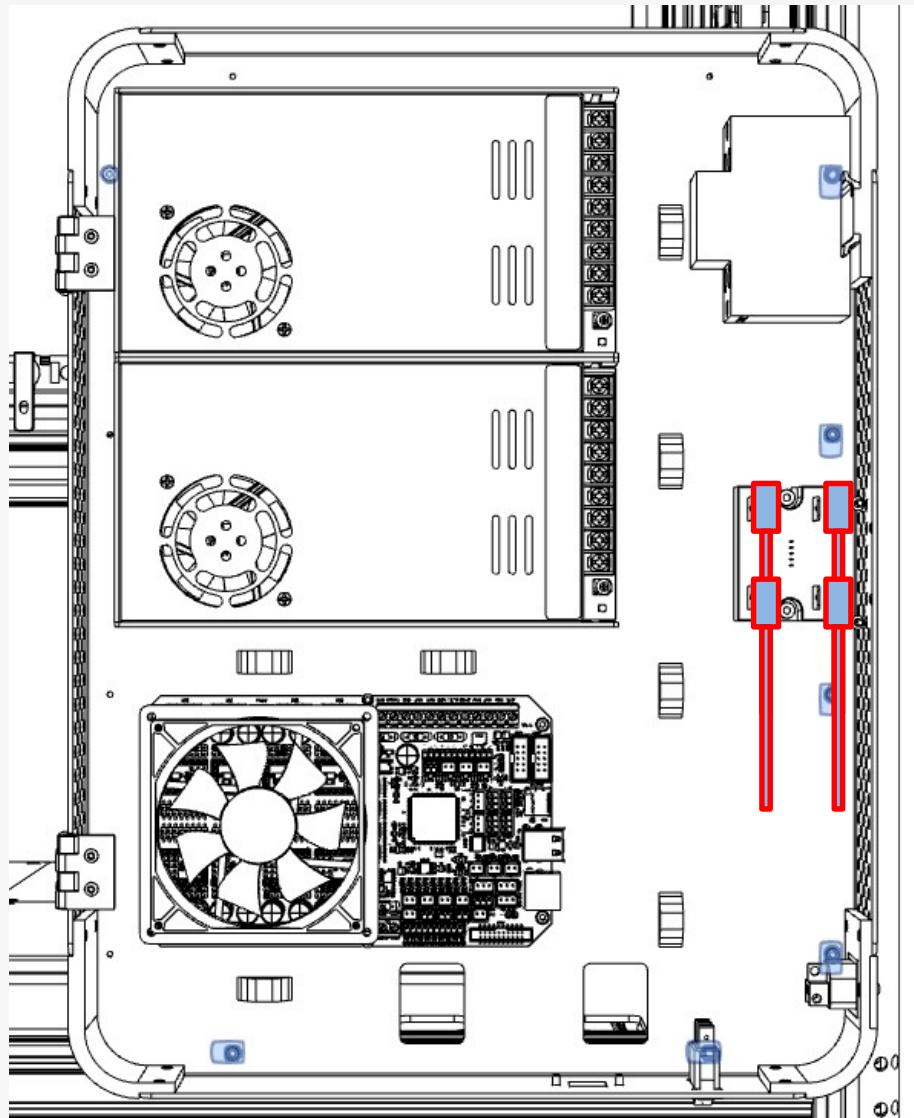
**ASSEMBLY**

- Assemble according to the diagram;
- Install the handle and lock inside the electrical box;



#### ASSEMBLY

- First, screw the electric box to the side of the profile;
- Pass the display screen, motor, heat bed, and CAN board wires through the window and connect them to the main board.
- Refer to the wiring diagram for the installation position;

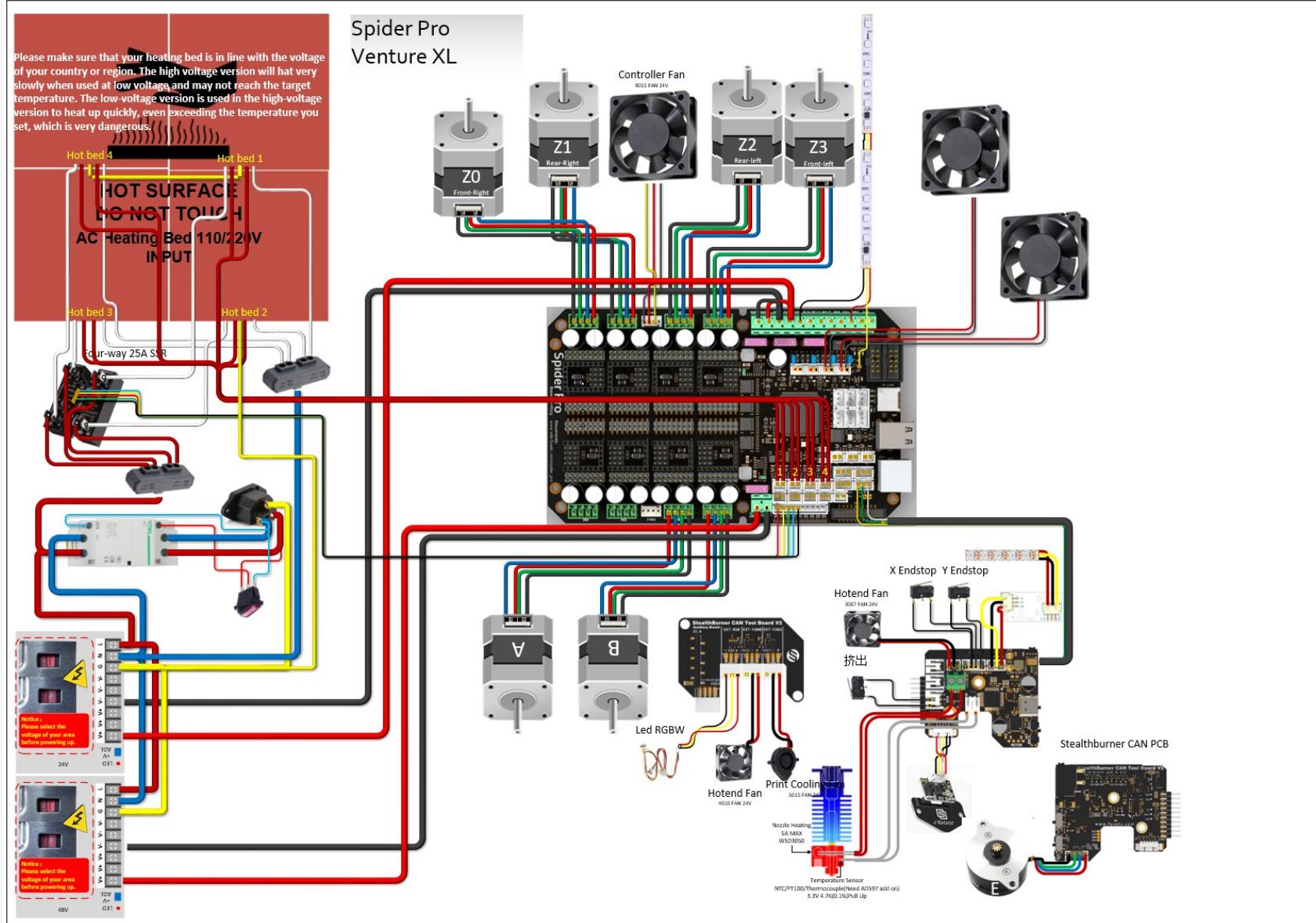


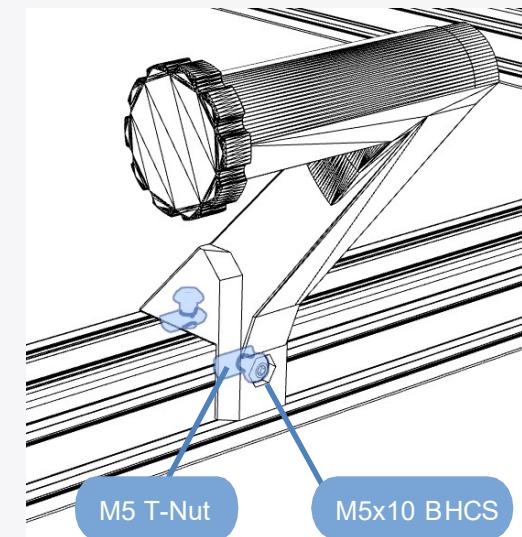
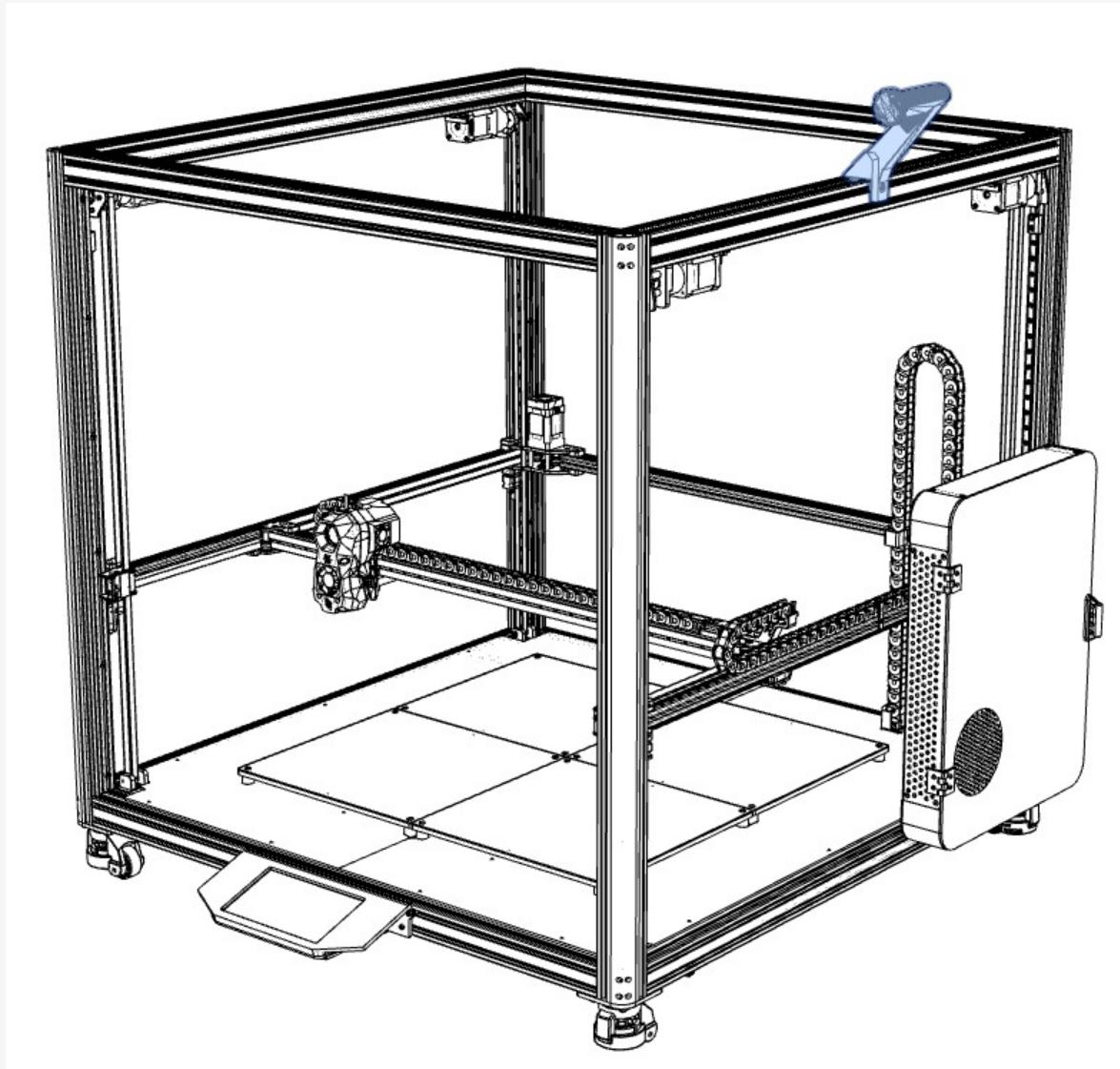
#### ASSEMBLY

- First remove the fan and its bracket;
- Pass the display screen, motor, heat bed, and CAN board wires plug into the motherboard;
- Refer to the wiring diagram for the installation position;

## Wiring Diagram

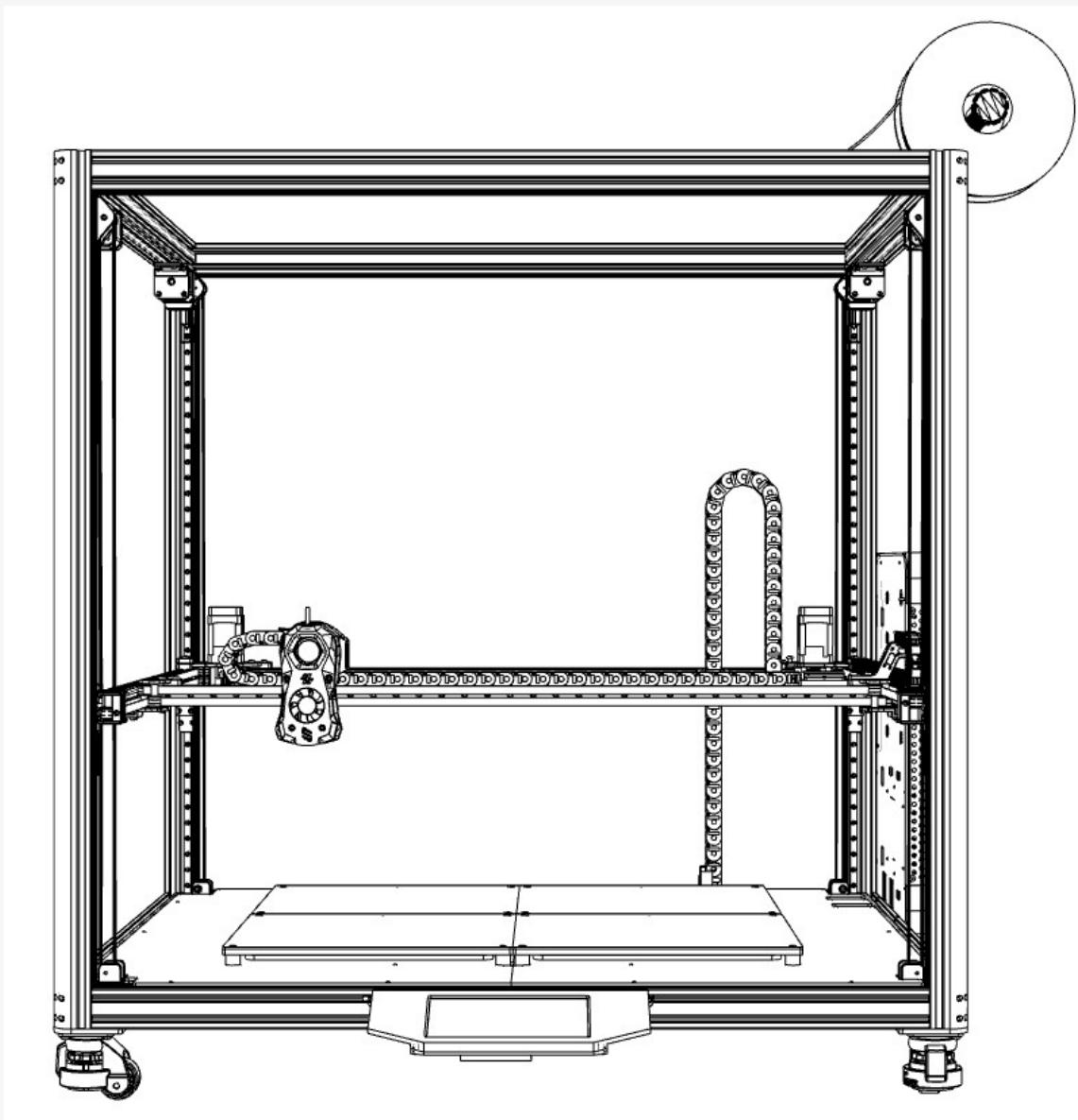
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#### ASSEMBLY

- Assemble according to the diagram;
- The bracket is placed in the middle of the profile;

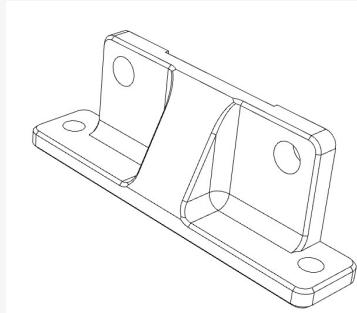


**ASSEMBLY**

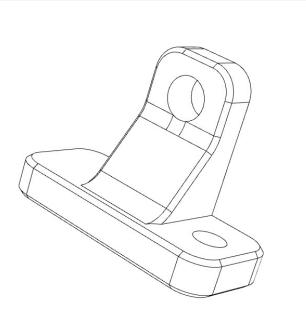
- Initial installation of equipment completed;
- After checking the circuit, you can try to power on the machine;

## NEXT STEPS

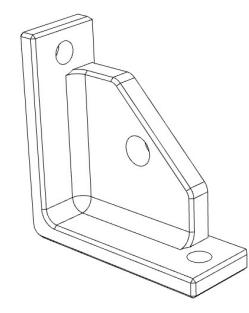
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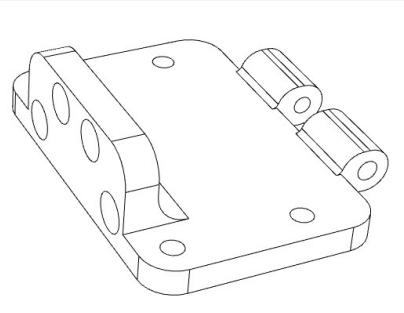
Acrylic plate fixing\_1\_x8



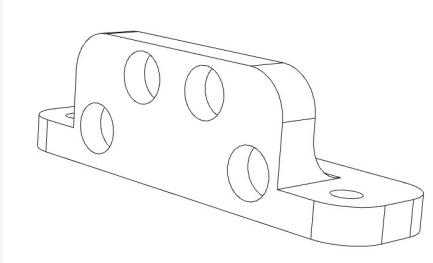
Acrylic plate fixing\_2\_x10



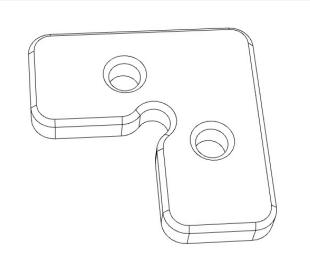
Acrylic plate fixing\_3\_x16



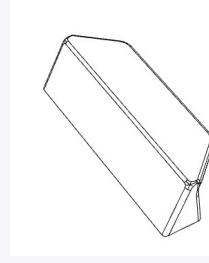
Door Block + Camera  
Bracket\_up\_x1



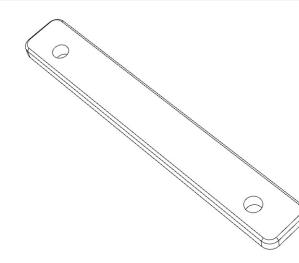
Door Block\_down\_x1



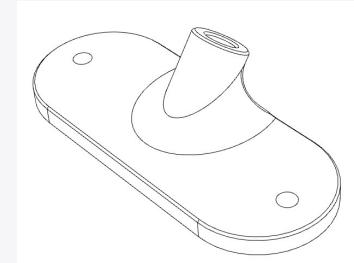
Door corner stopper\_x8



Door handle\_x2



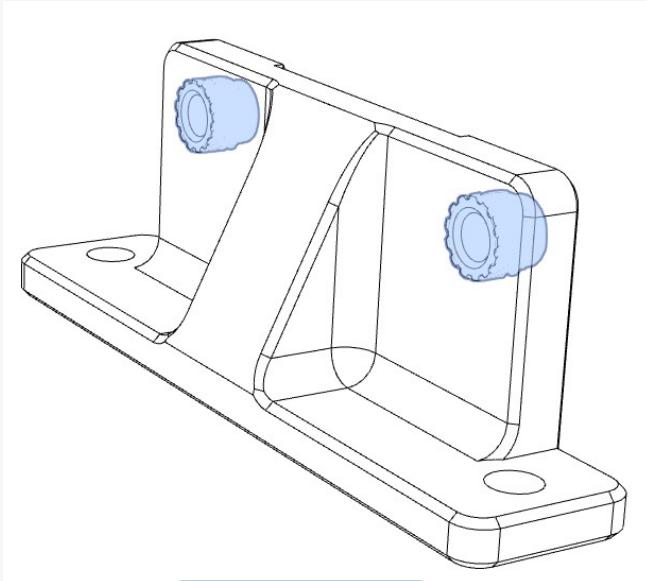
Door handle corner  
plug\_x2



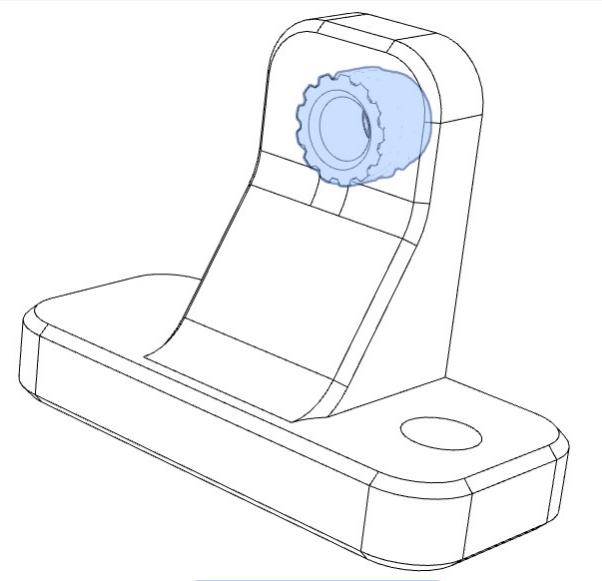
Feed port\_x4

## ASSEMBLY

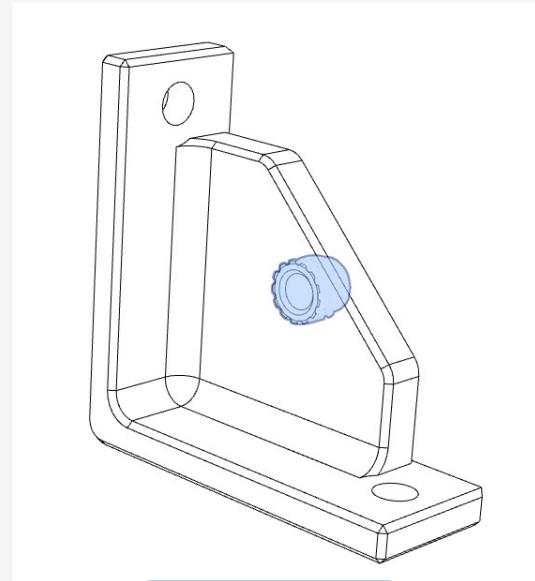
- After the equipment is turned on and running, print the graphic file, black PETG, filling 30%;



Acrylic plate fixing\_1\_x8



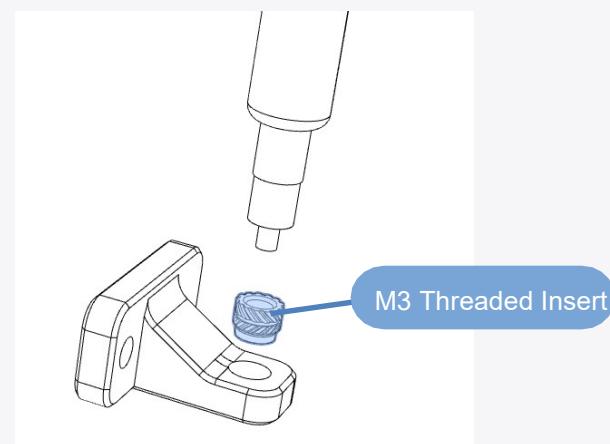
Acrylic plate fixing\_2\_x10

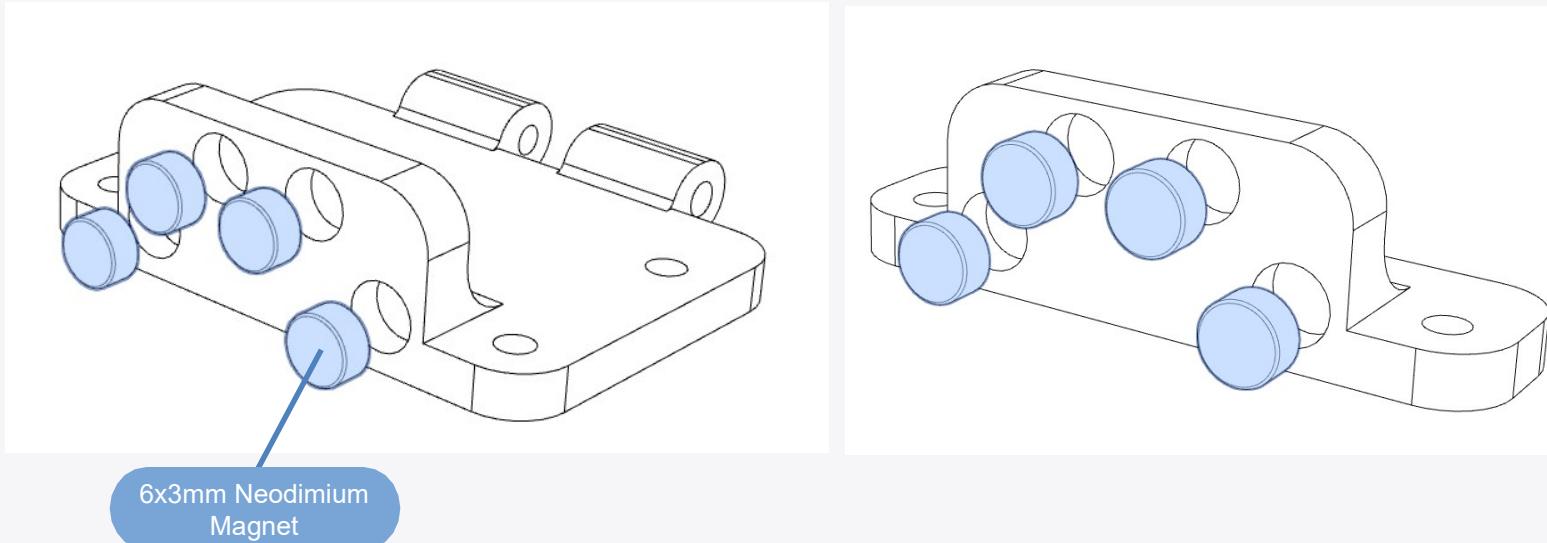


Acrylic plate fixing\_3\_x16

**ASSEMBLY**

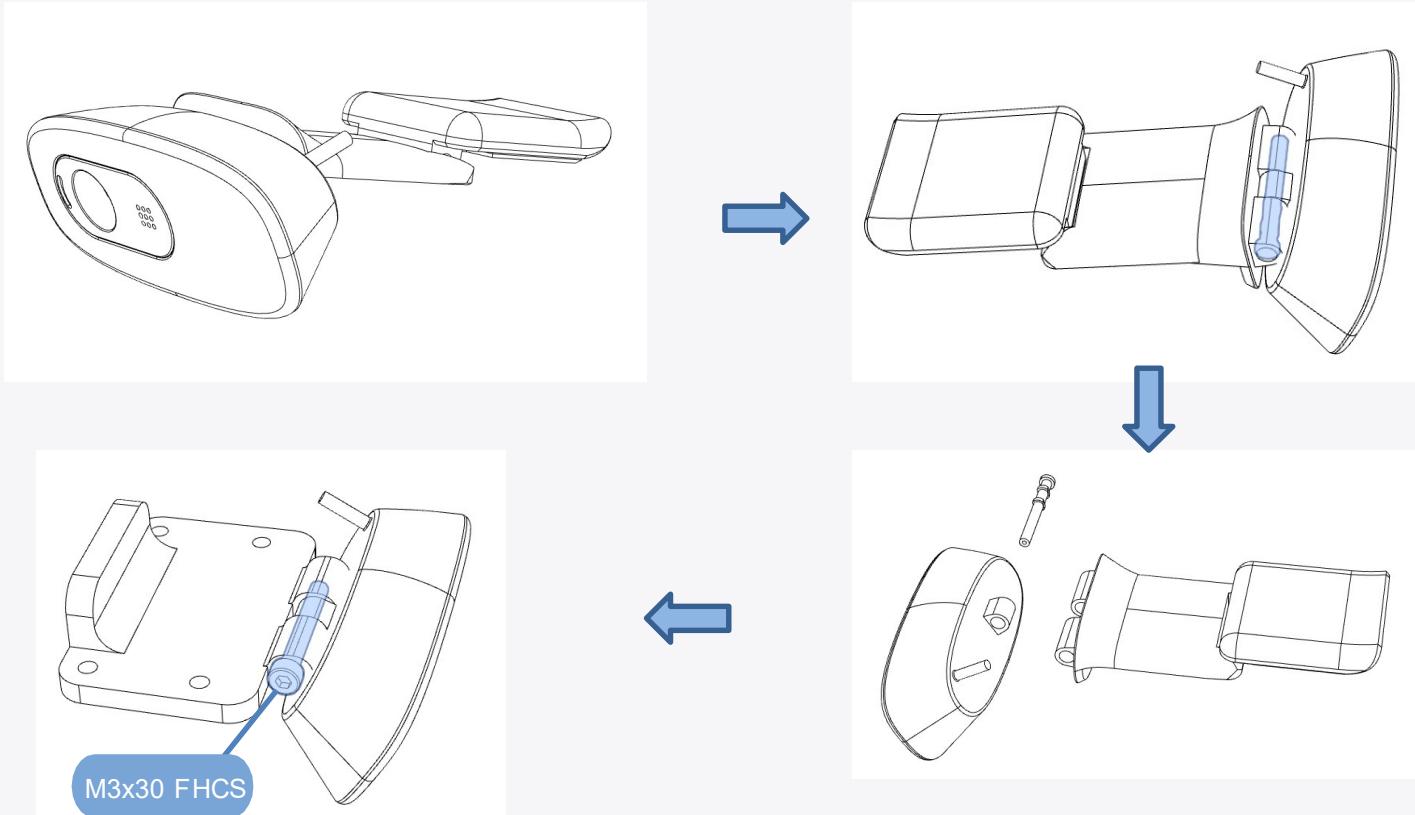
- Use a soldering iron to heat-weld the printed parts;





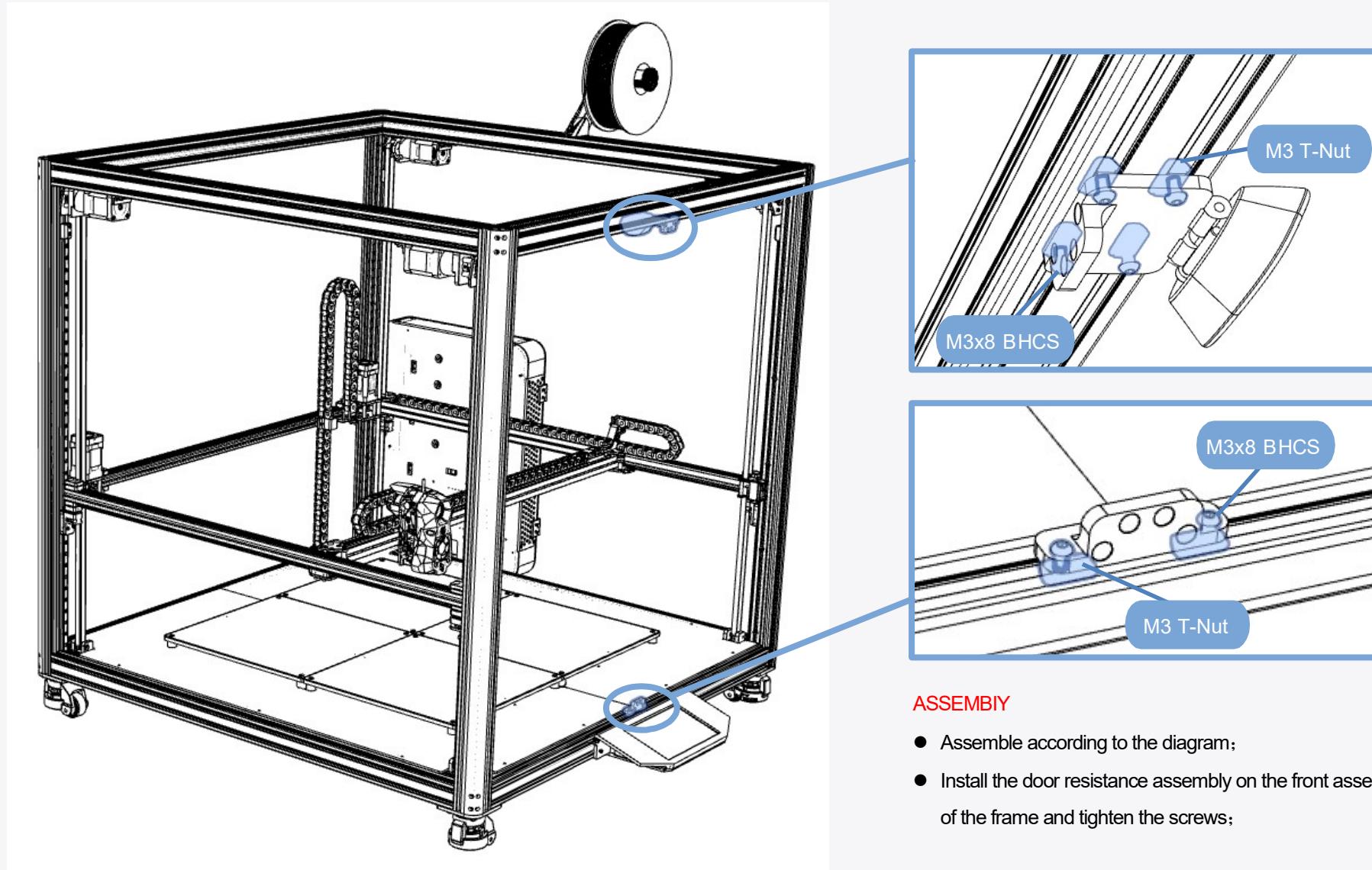
**ASSEMBLY**

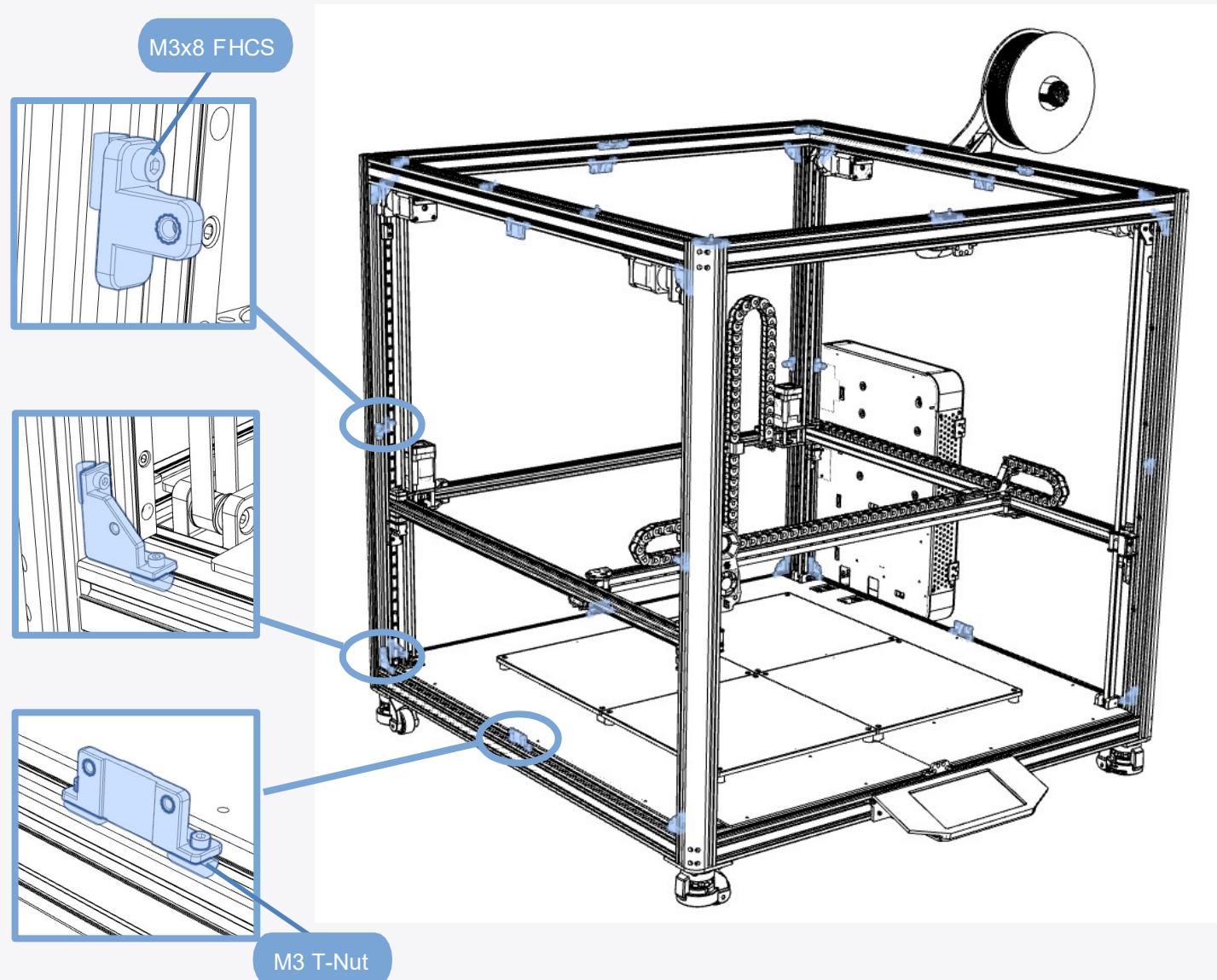
- Press the magnet into the print as shown;



**ASSEMBLY**

- Open the camera box and take out the camera;
- Remove the bracket behind the camera from the middle connection;
- Install the camera body to the bracket and tighten it with screws;

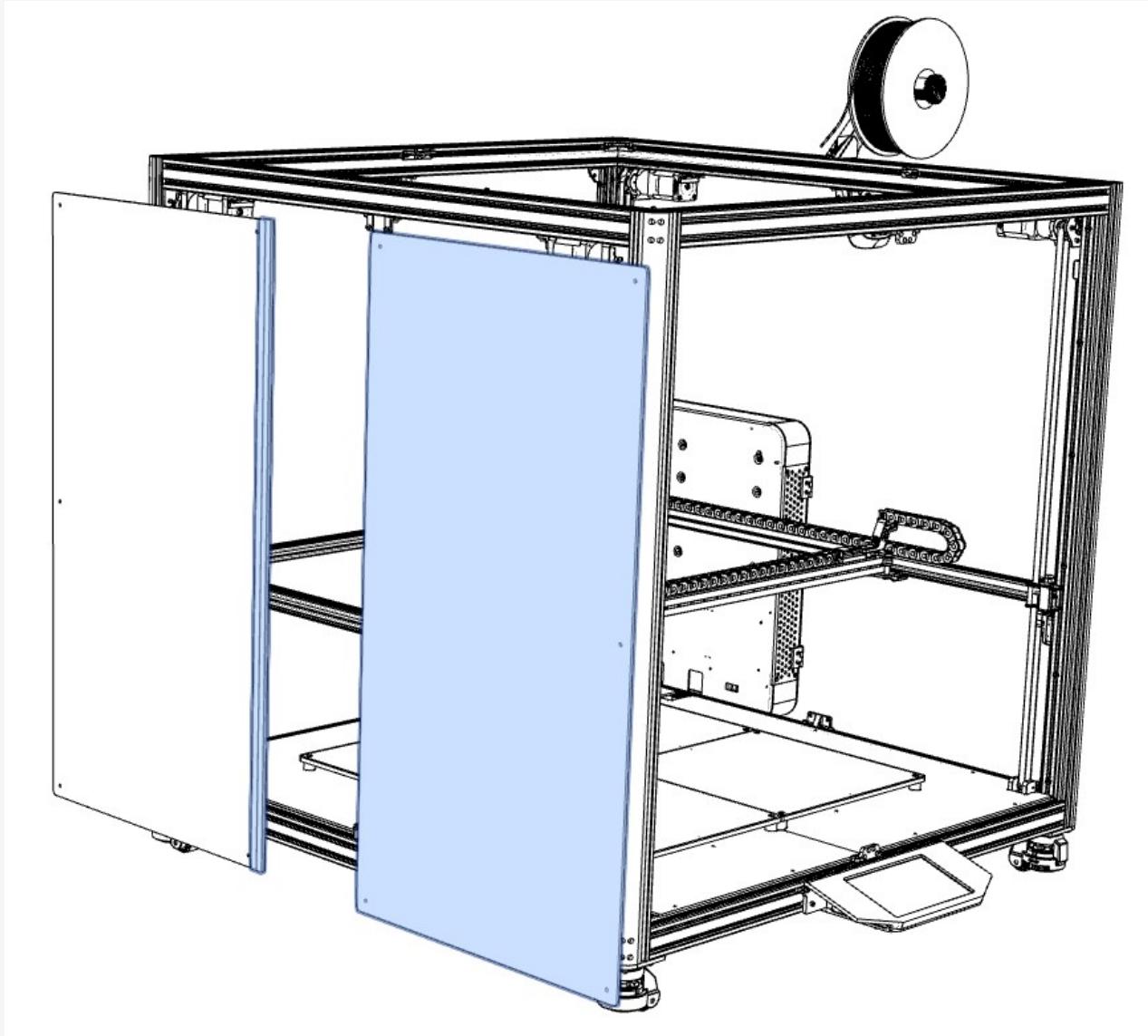




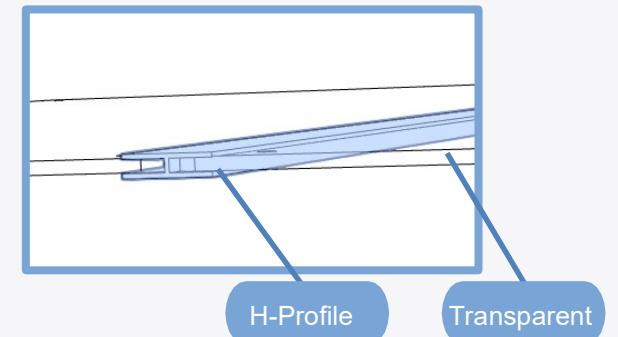
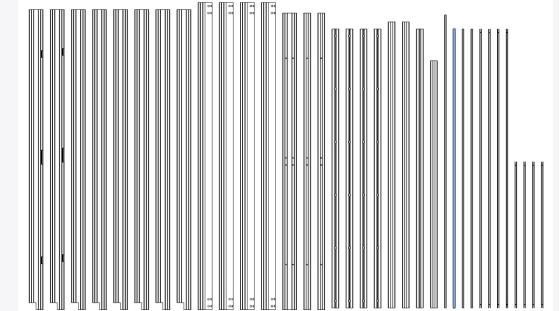
**ASSEMBLY**

- Assemble according to the diagram;
- Install the acrylic board bracket and pay attention to the installation position;

## Side Panel

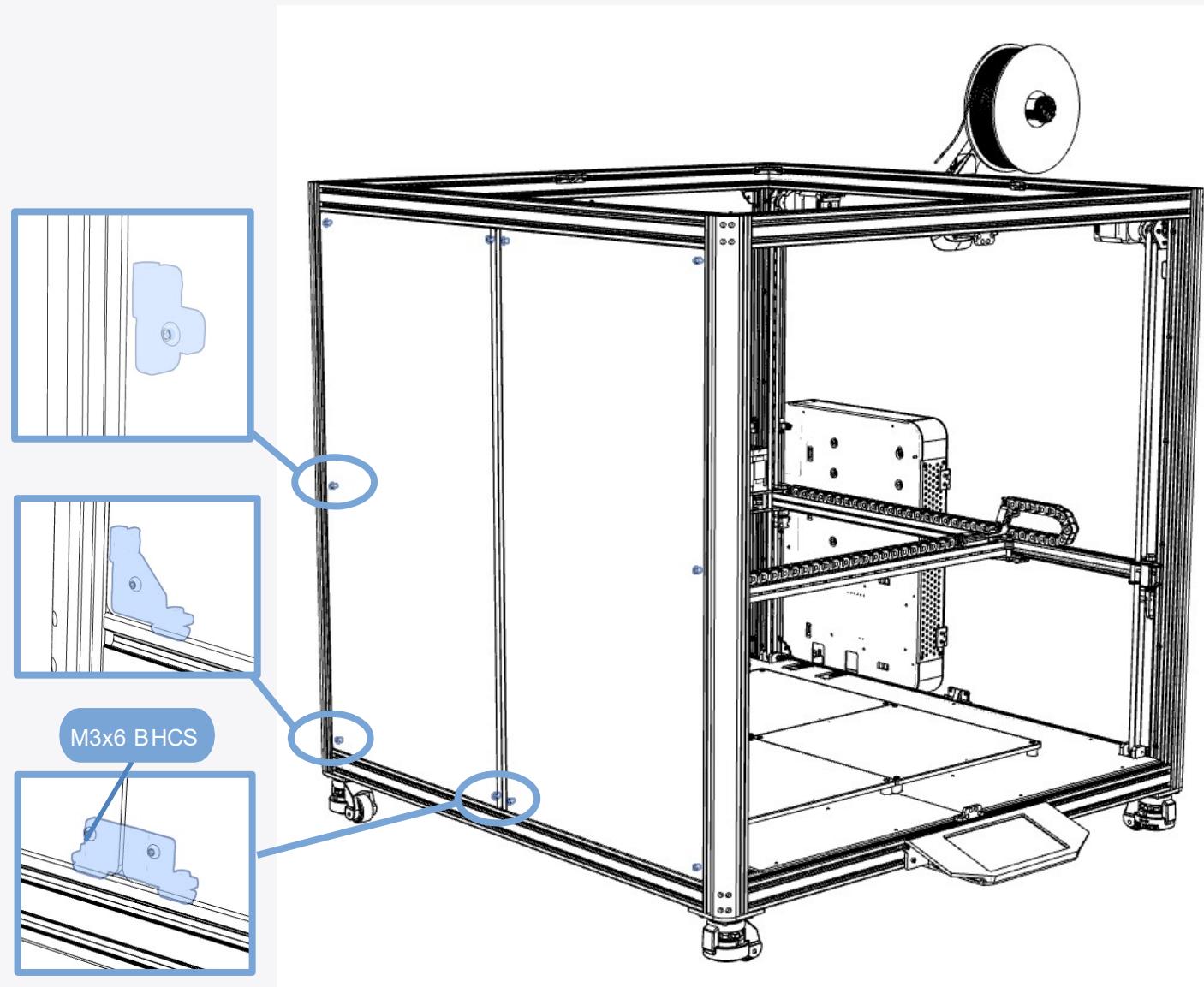


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## ASSEMBLY

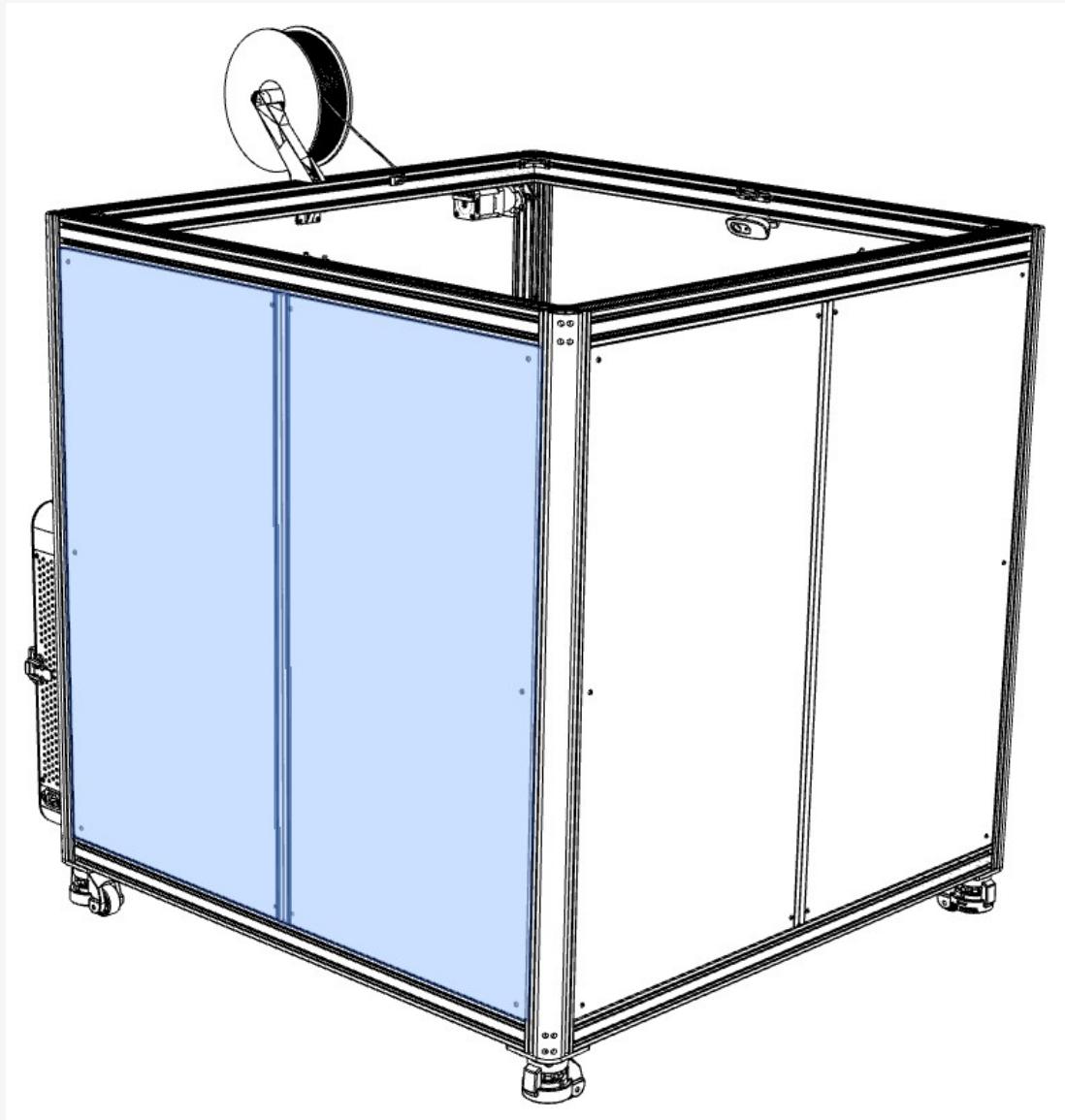
- Take out the profile shown in the figure;
- Insert the acrylic sheet into both sides of the profile as shown in the picture;
- Mount the acrylic sheet to the frame;



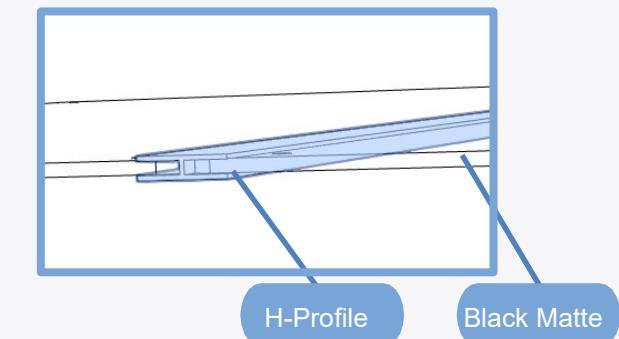
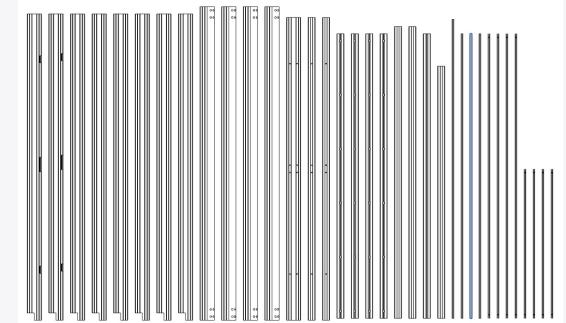
**ASSEMBLY**

- Assemble according to the diagram;
- Tighten the screws to fix the acrylic plate to the bracket;

## Back Panel

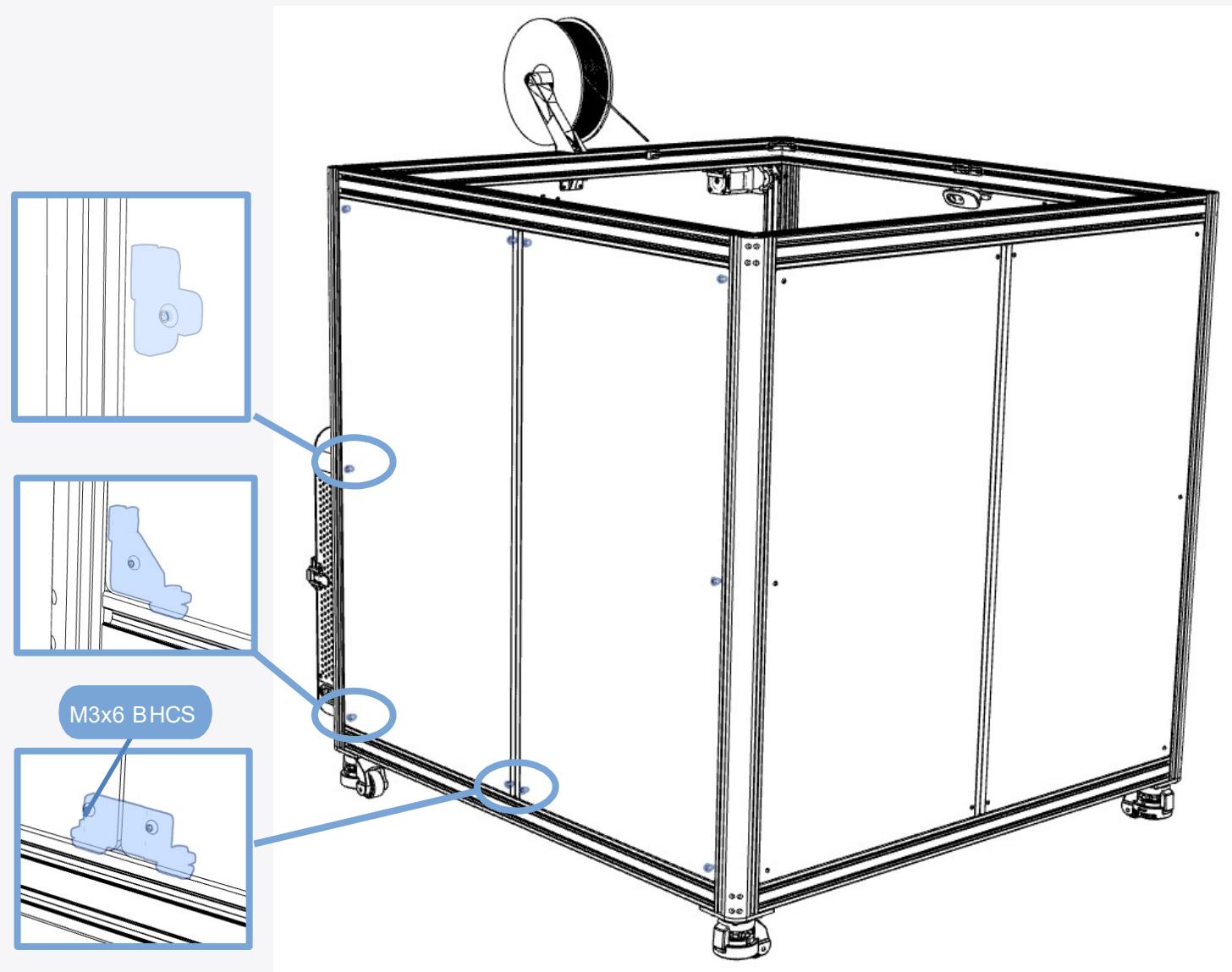


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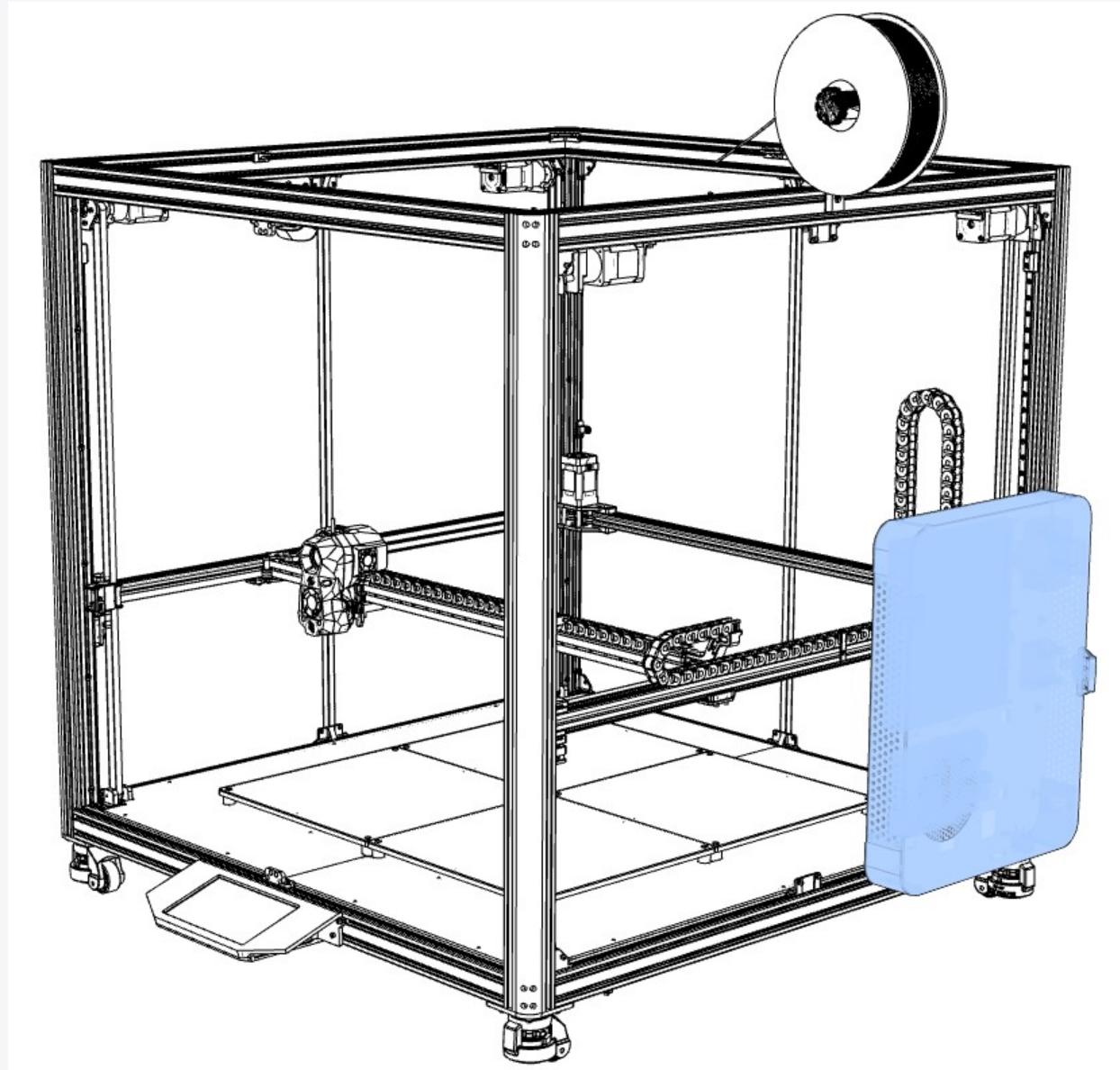
## ASSEMBLY

- Take out the profile shown in the figure;
- Insert the acrylic sheet into both sides of the profile as shown in the picture;
- Mount the acrylic sheet to the frame;



**ASSEMBLY**

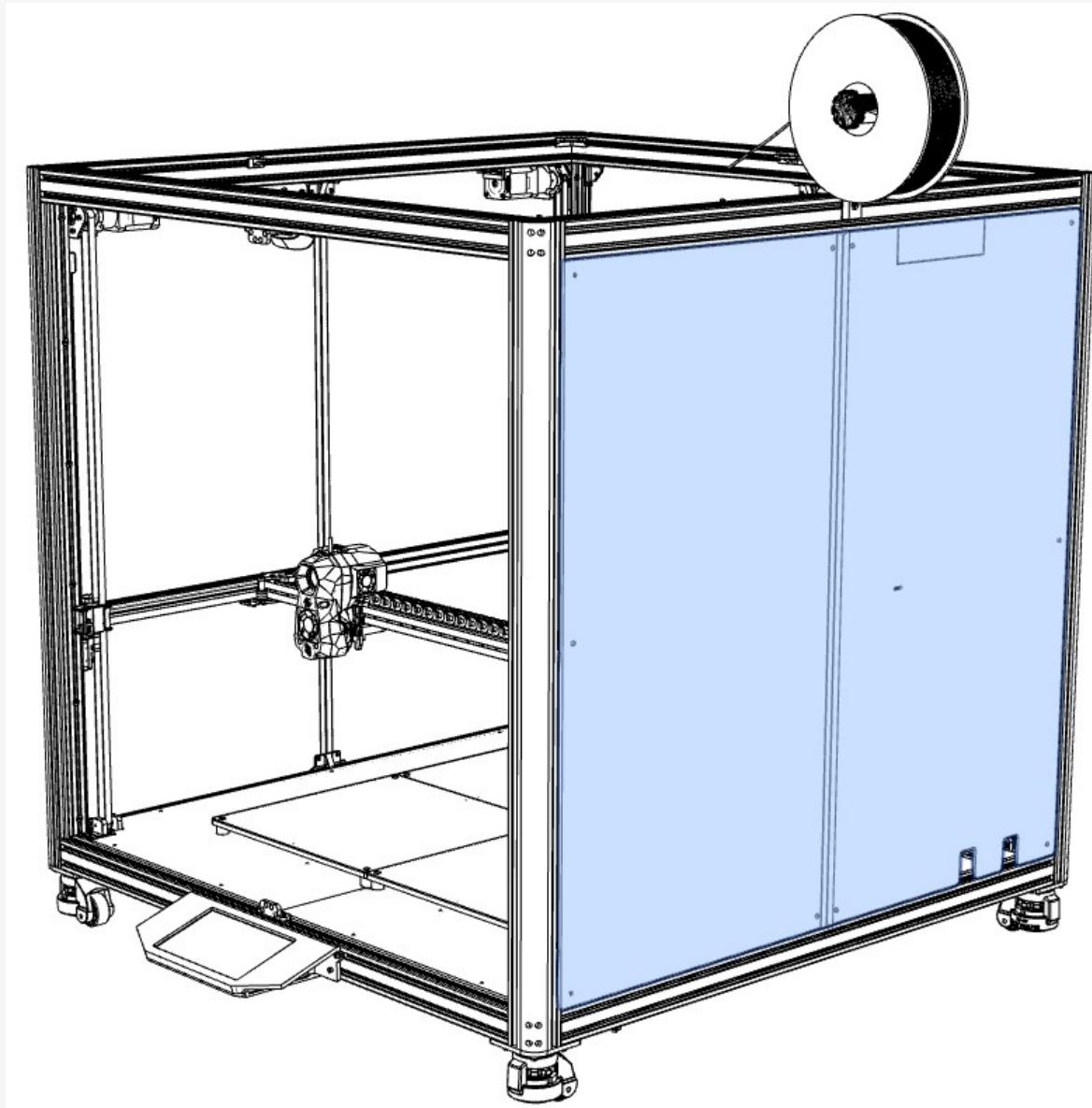
- Assemble according to the diagram;
- Tighten the screws to fix the acrylic plate to the bracket;



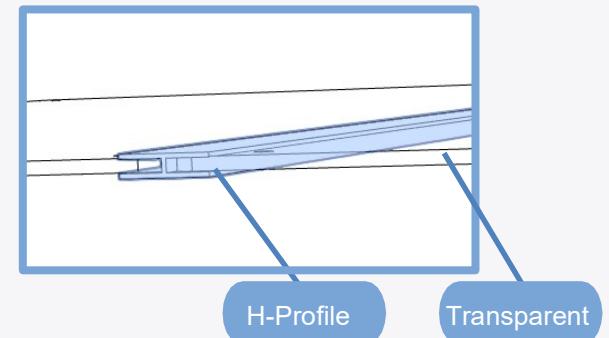
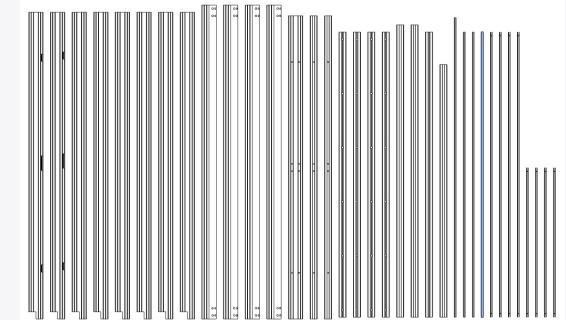
**ASSEMBLY**

- First loosen the screws of the electric box and remove the electric box;

Side Panel

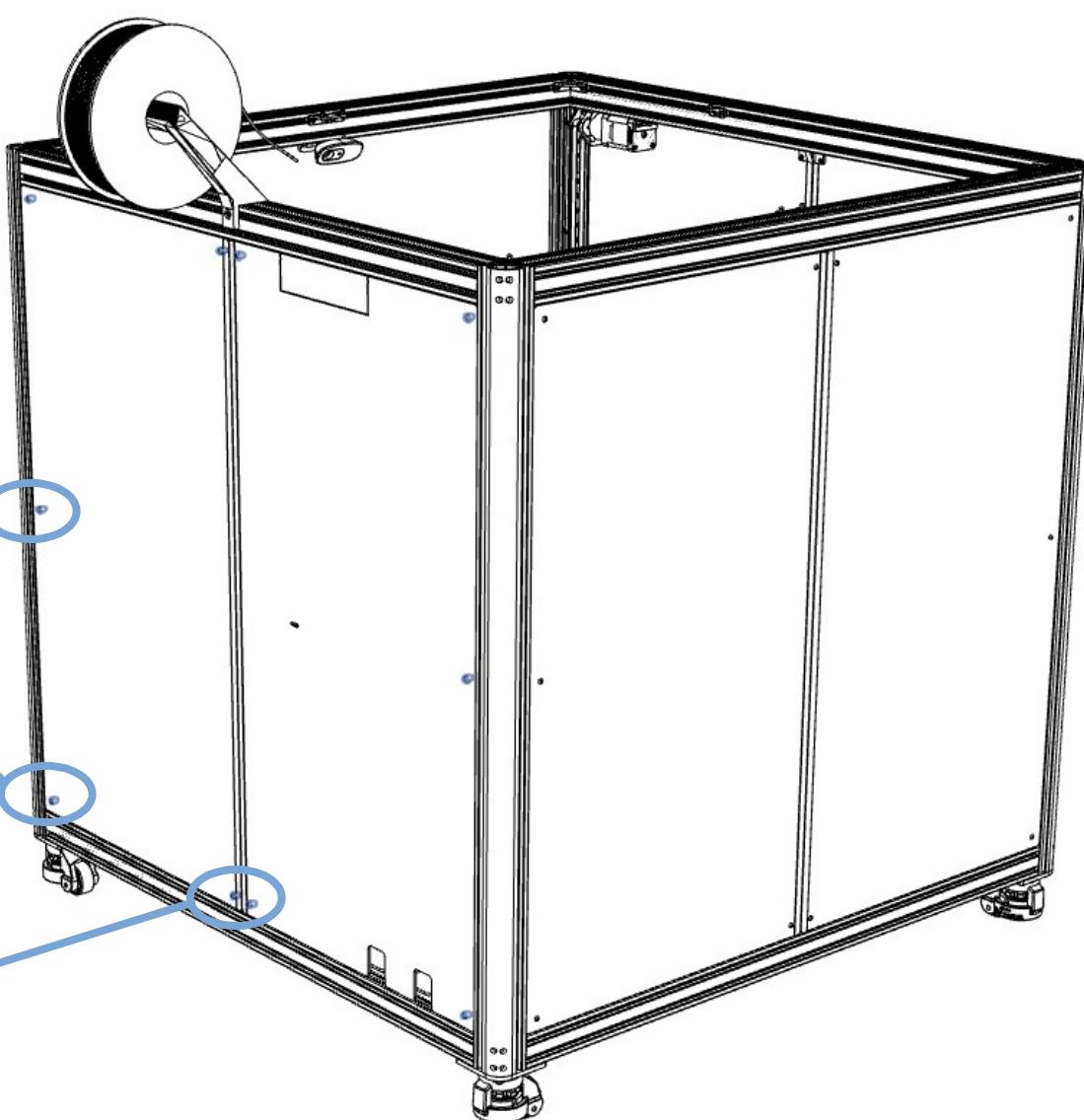
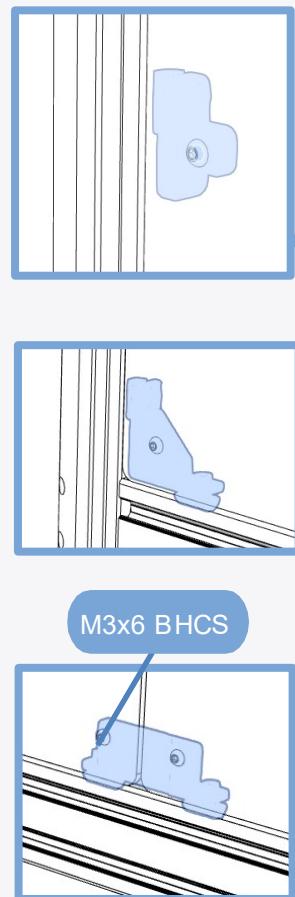


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#### ASSEMBLY

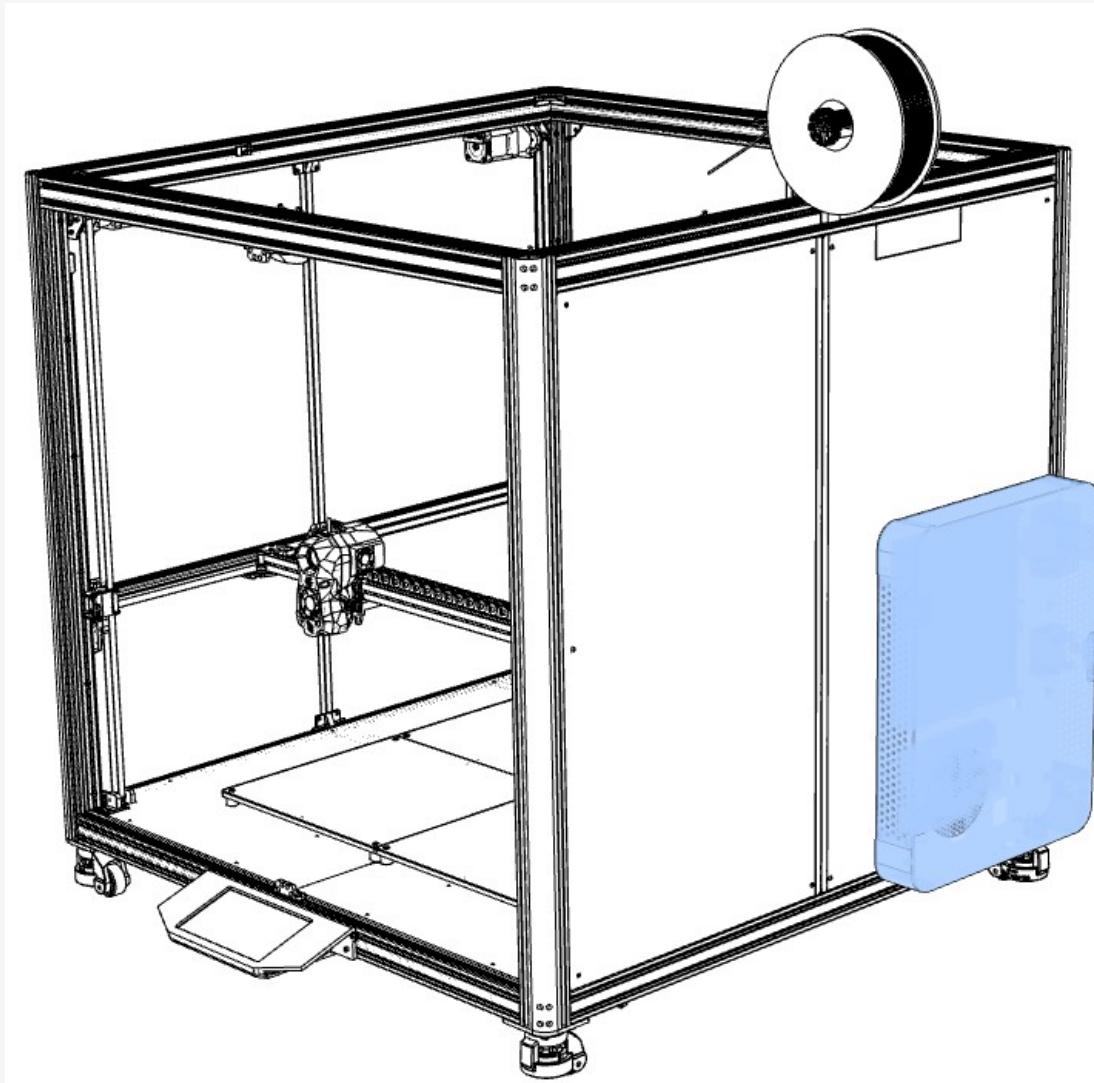
- Take out the profile shown in the figure;
- Insert the acrylic sheet into both sides of the profile as shown in the picture;
- Mount the acrylic sheet to the frame;

**ASSEMBLY**

- Assemble according to the diagram;
- Install the acrylic board bracket and pay attention to the installation position;

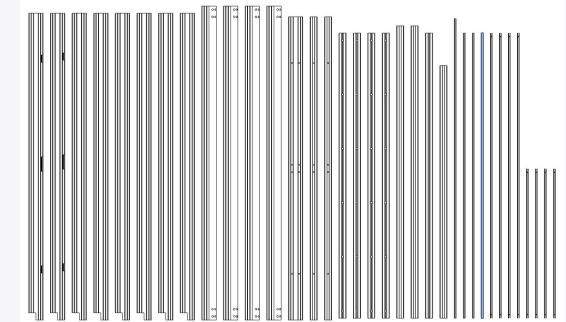
Side Panel

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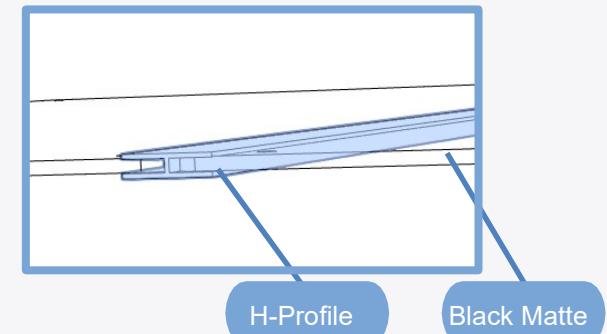
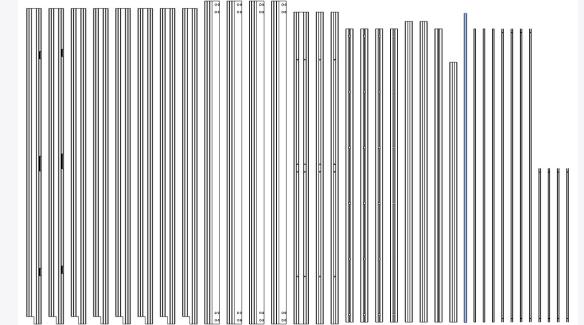
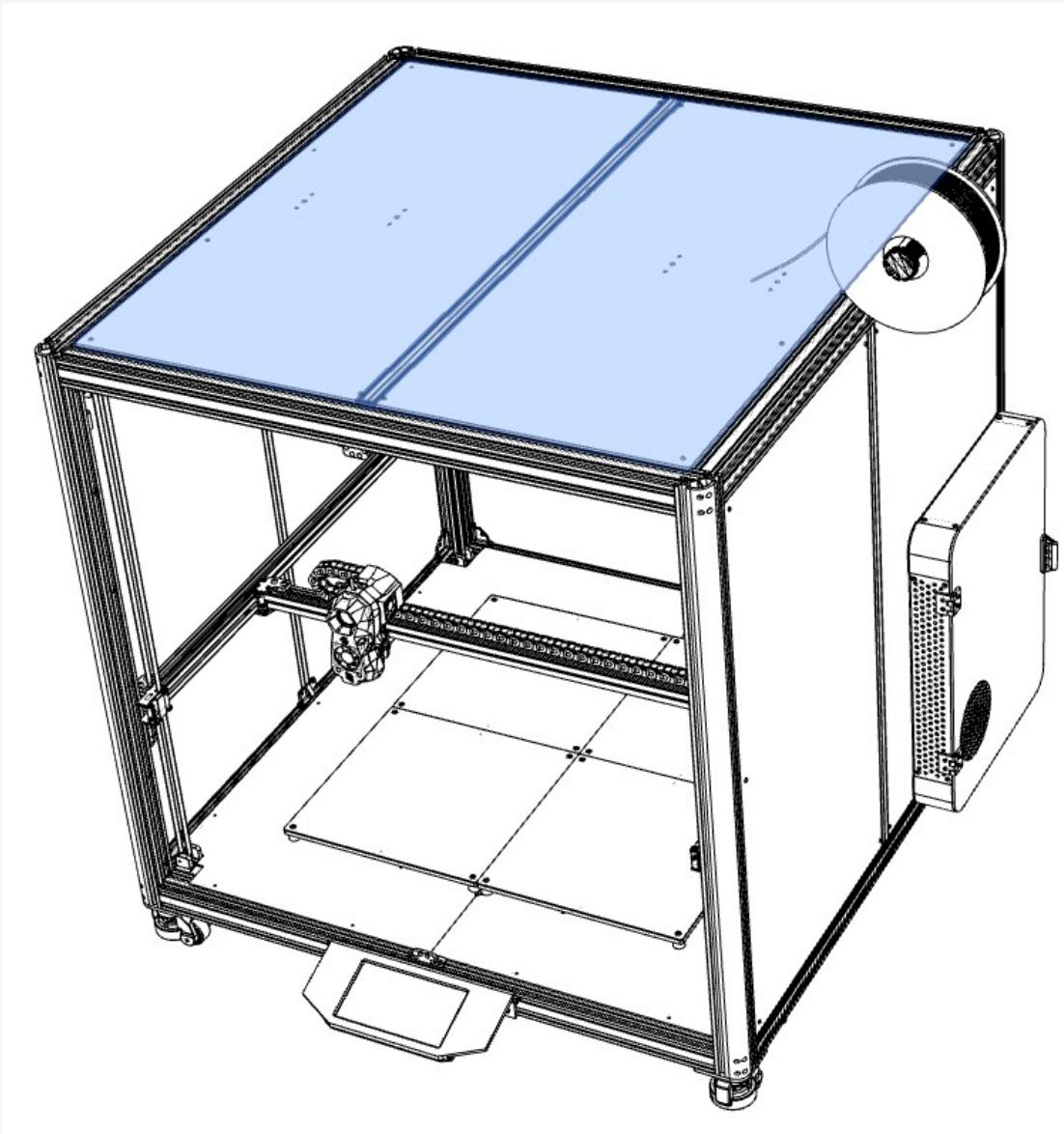
**ASSEMBLY**

- Install the electrical box back onto the frame;



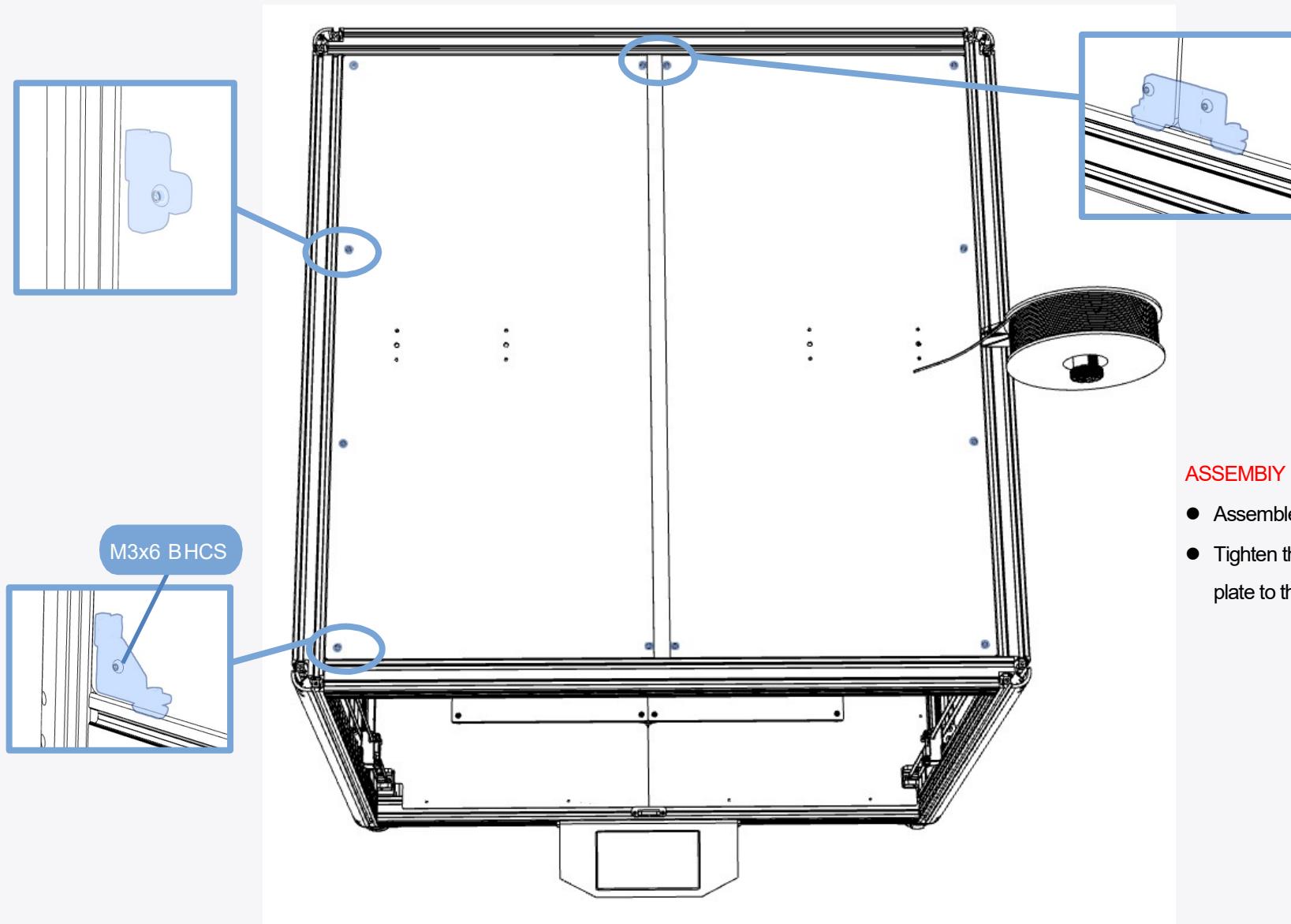
Top Panel

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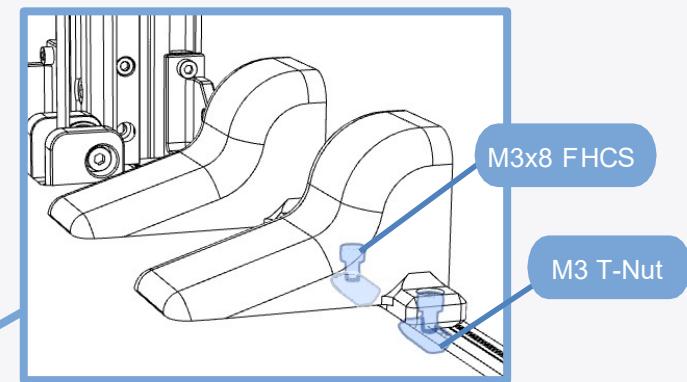
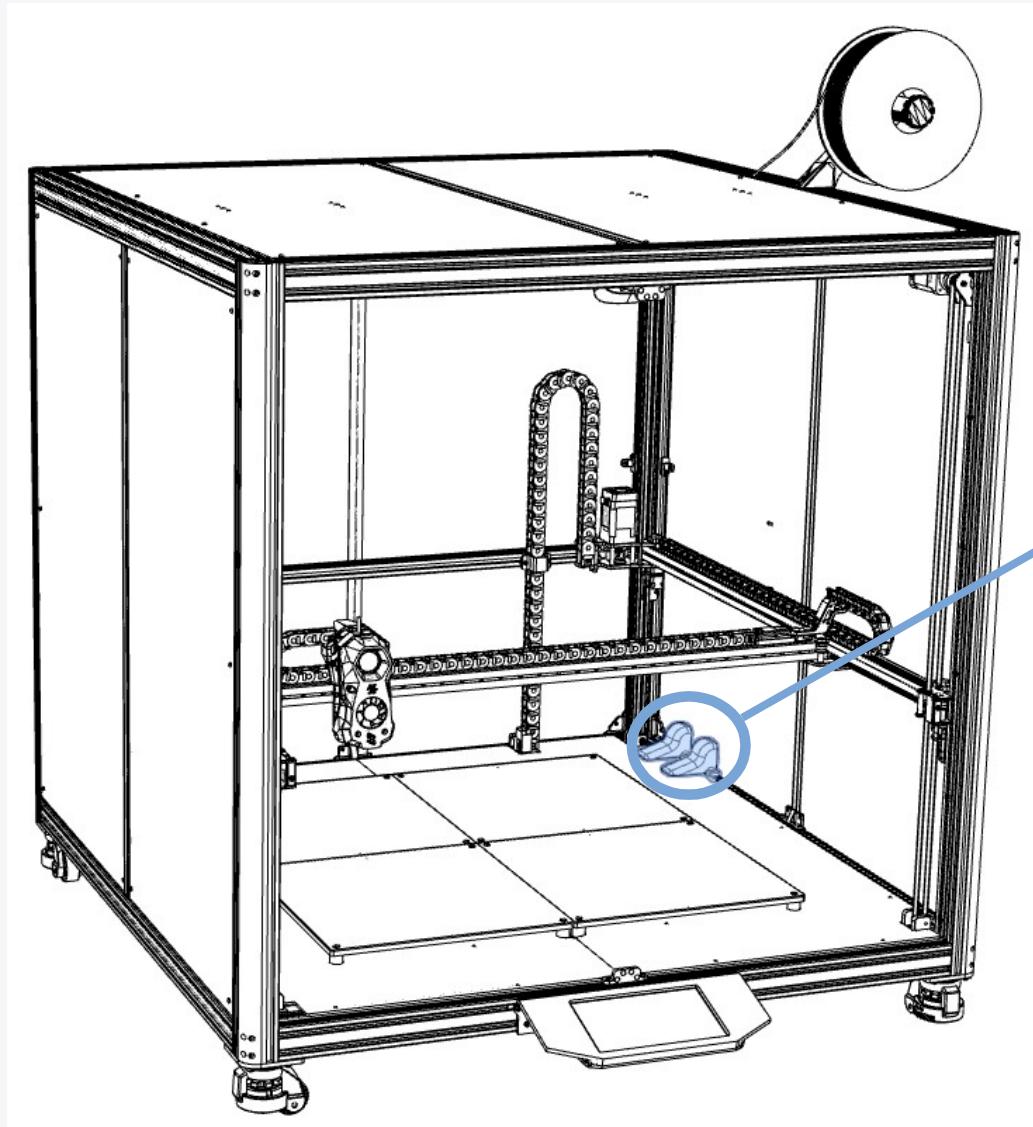


#### ASSEMBLY

- Take out the profile shown in the figure;
- Insert the acrylic sheet into both sides of the profile as shown in the picture;
- Mount the acrylic sheet to the frame;

**ASSEMBLY**

- Assemble according to the diagram;
- Tighten the screws to fix the acrylic plate to the bracket;

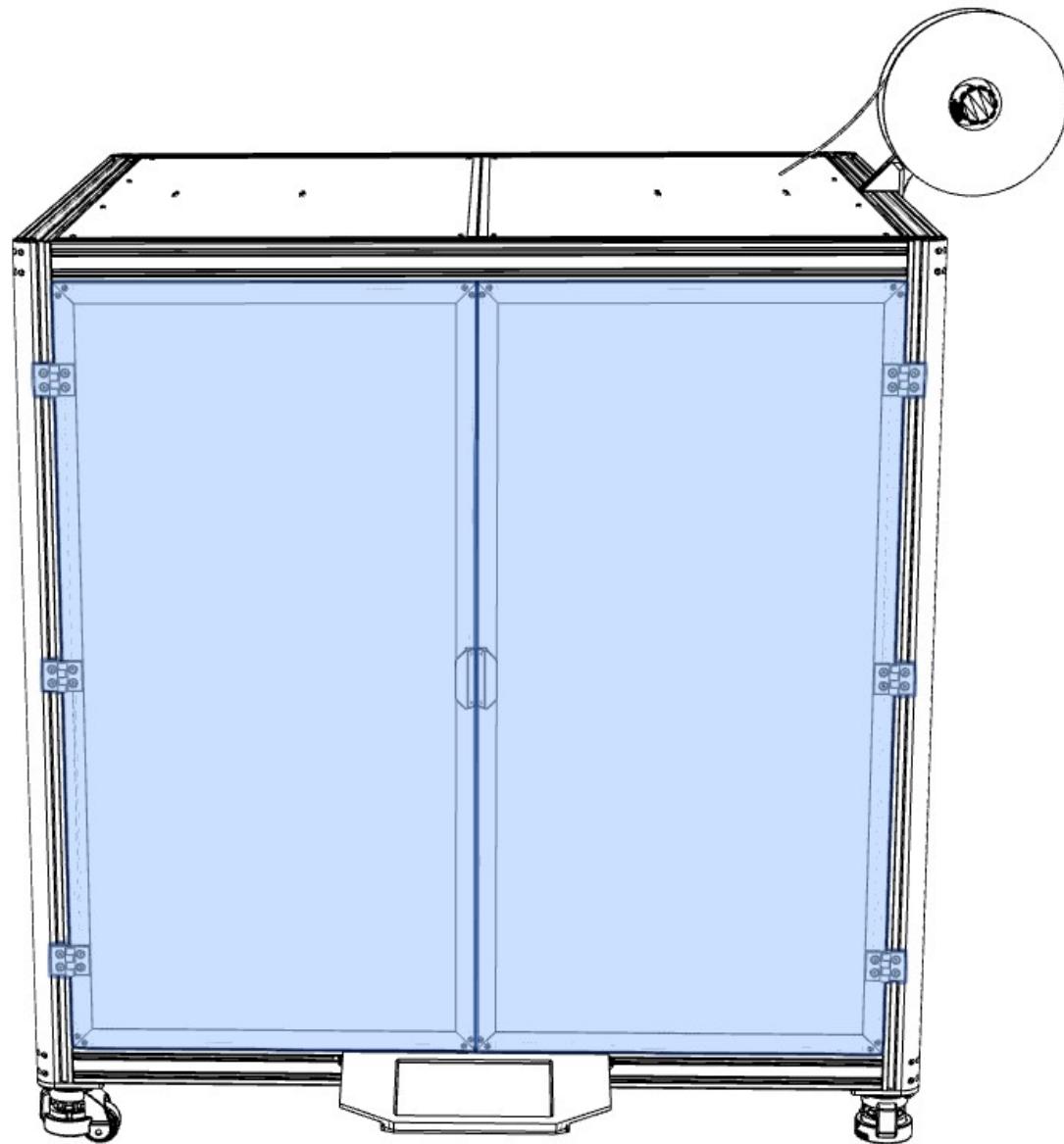


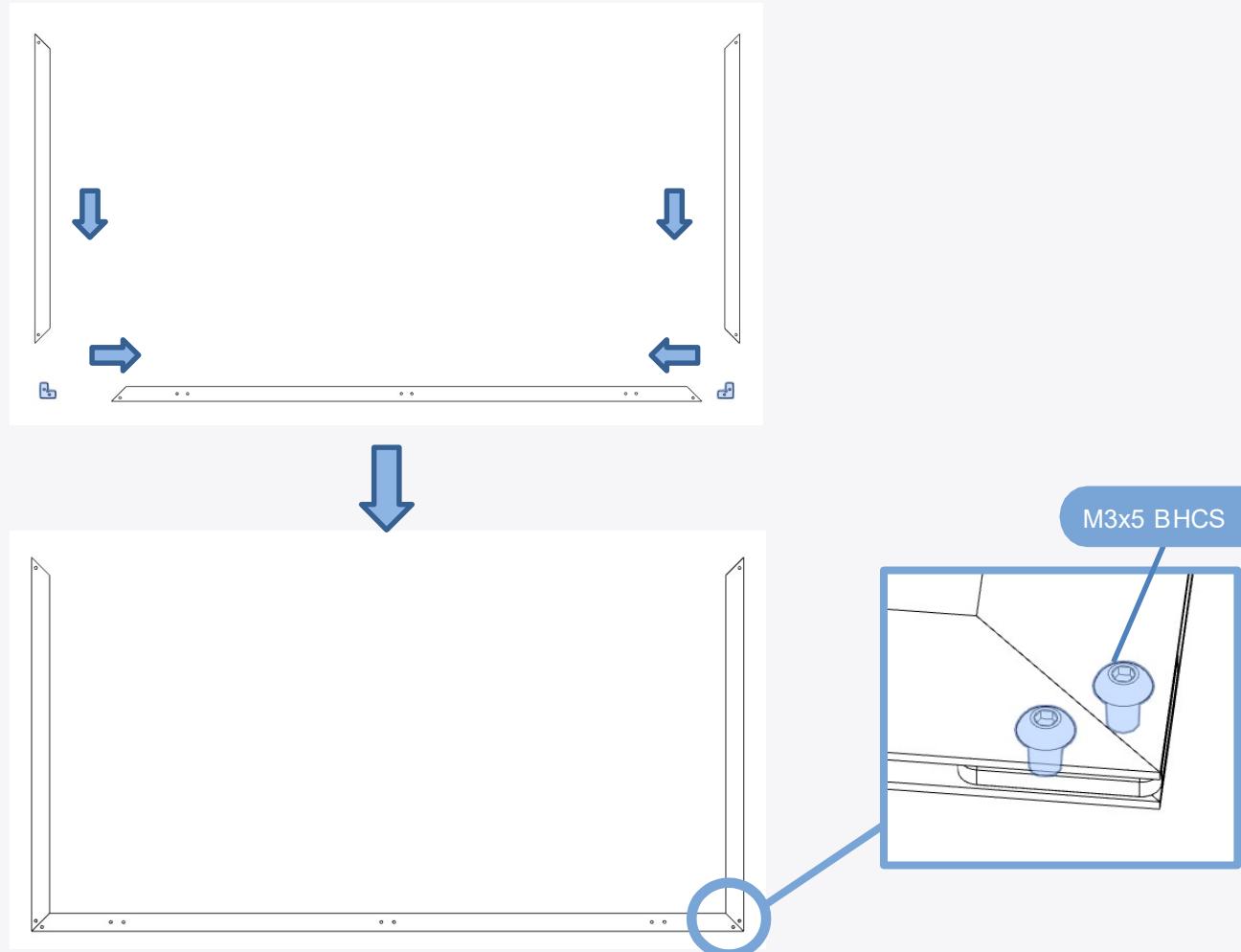
**ASSEMBLY**

- Assemble according to the diagram, Covering Wires;
- Tighten it with screws;

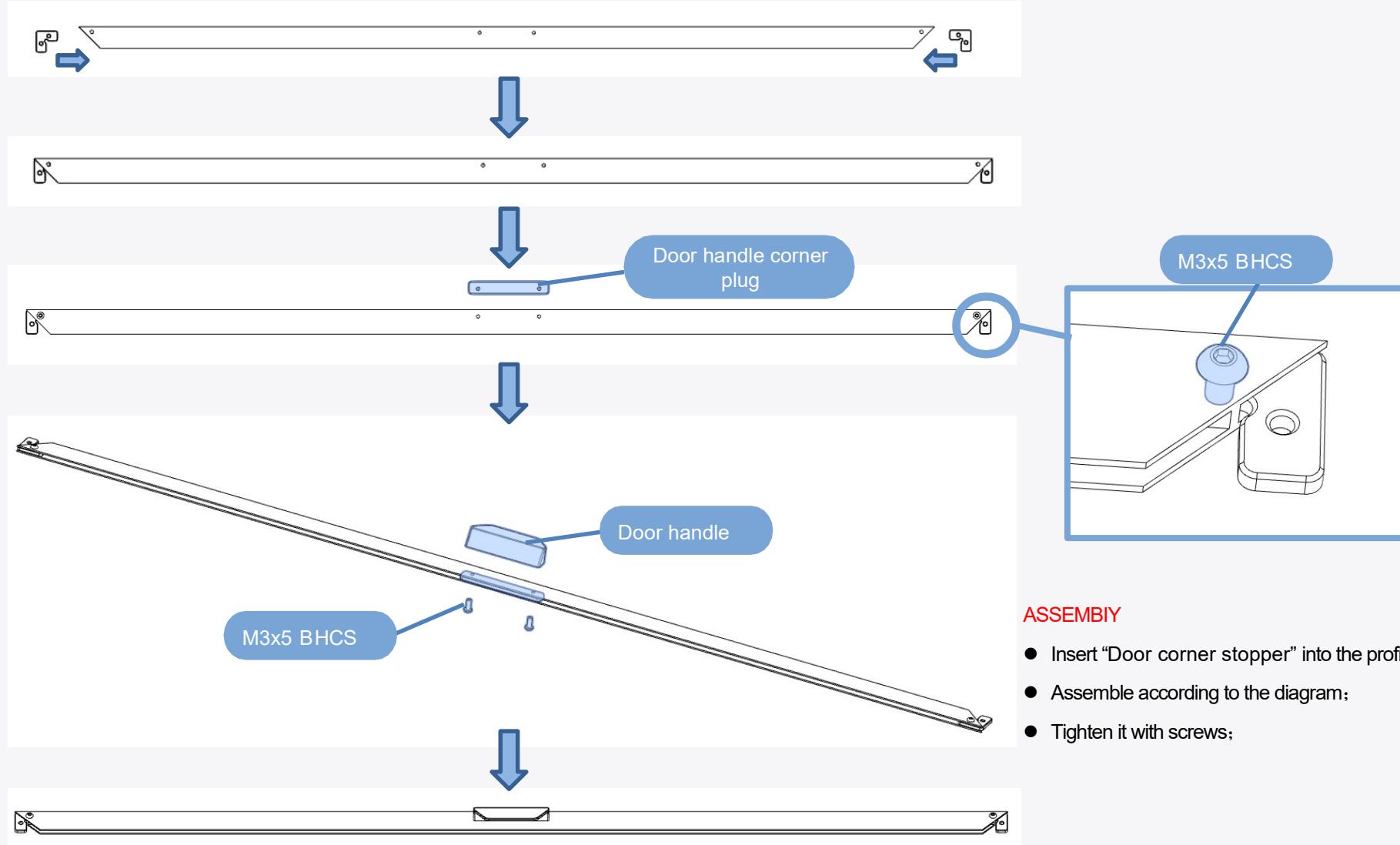
Door

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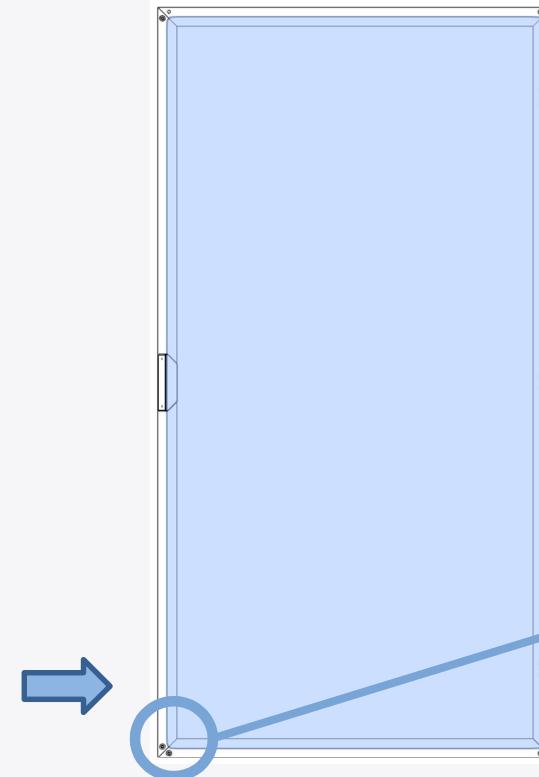
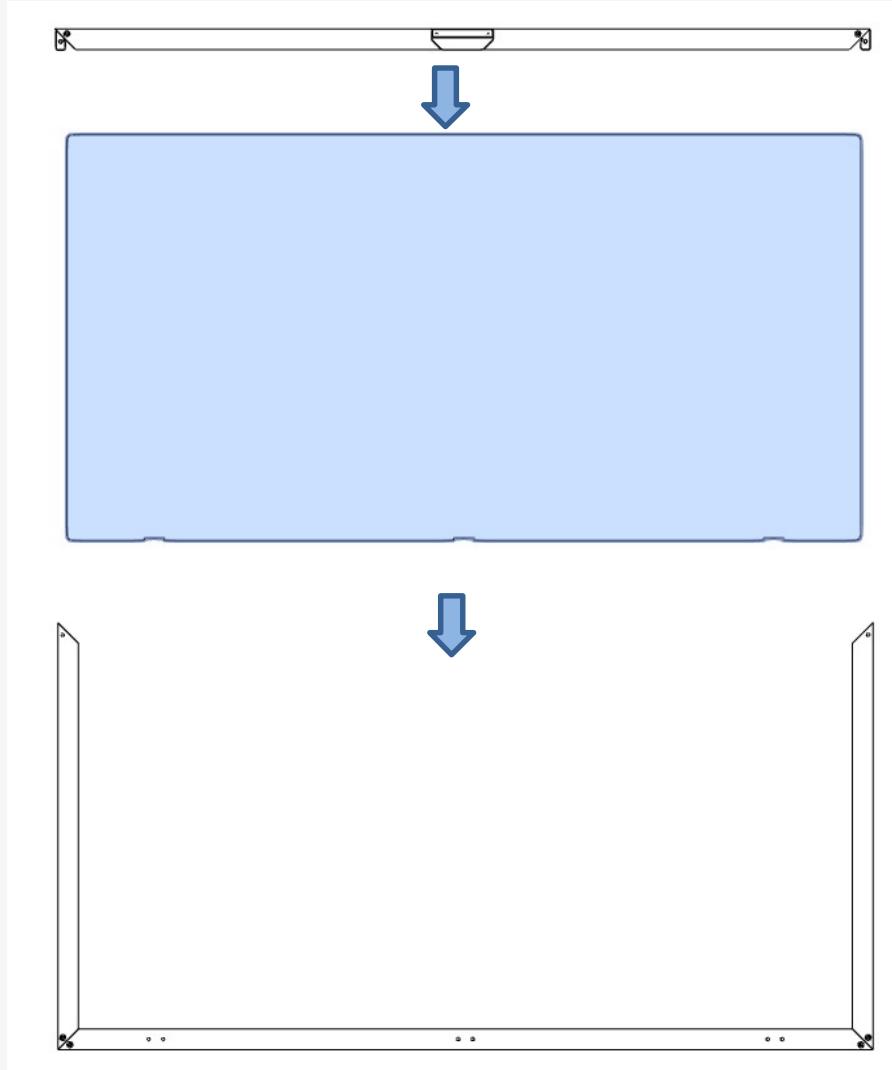


**ASSEMBLY**

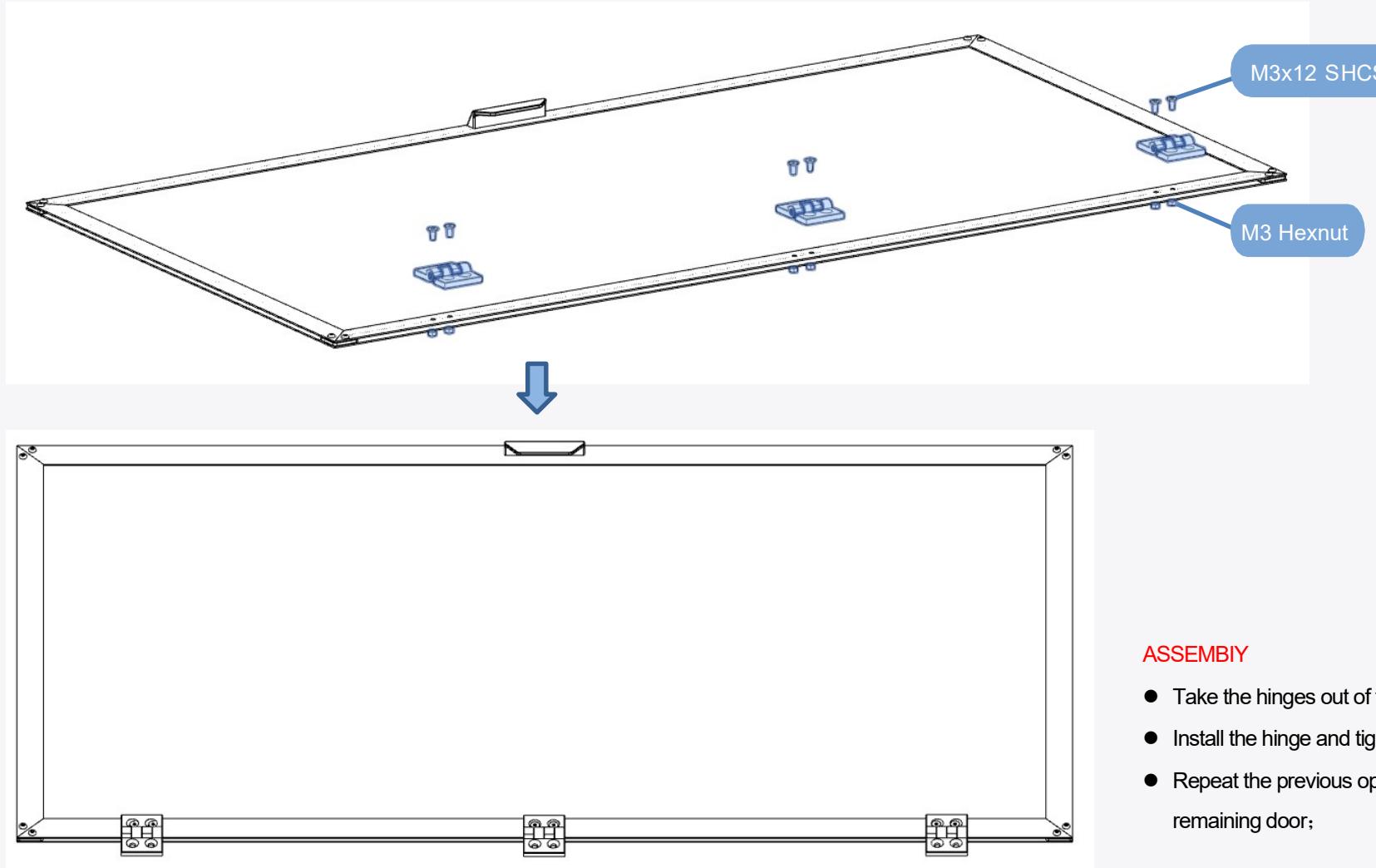
- Insert “Door corner stopper” into the profile groove;
- Assemble according to the diagram;
- Tighten it with screws;

**ASSEMBLY**

- Insert "Door corner stopper" into the profile groove;
- Assemble according to the diagram;
- Tighten it with screws;

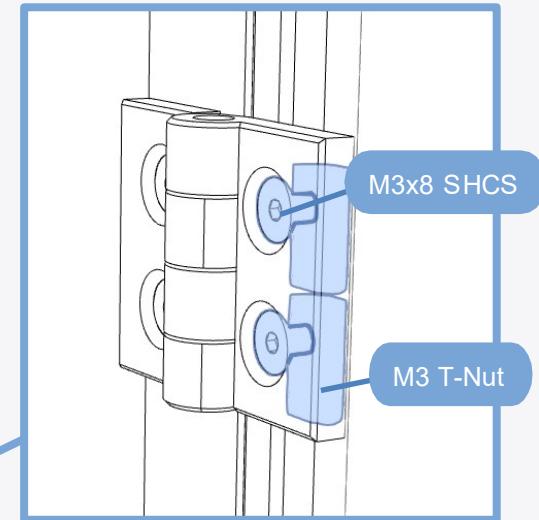
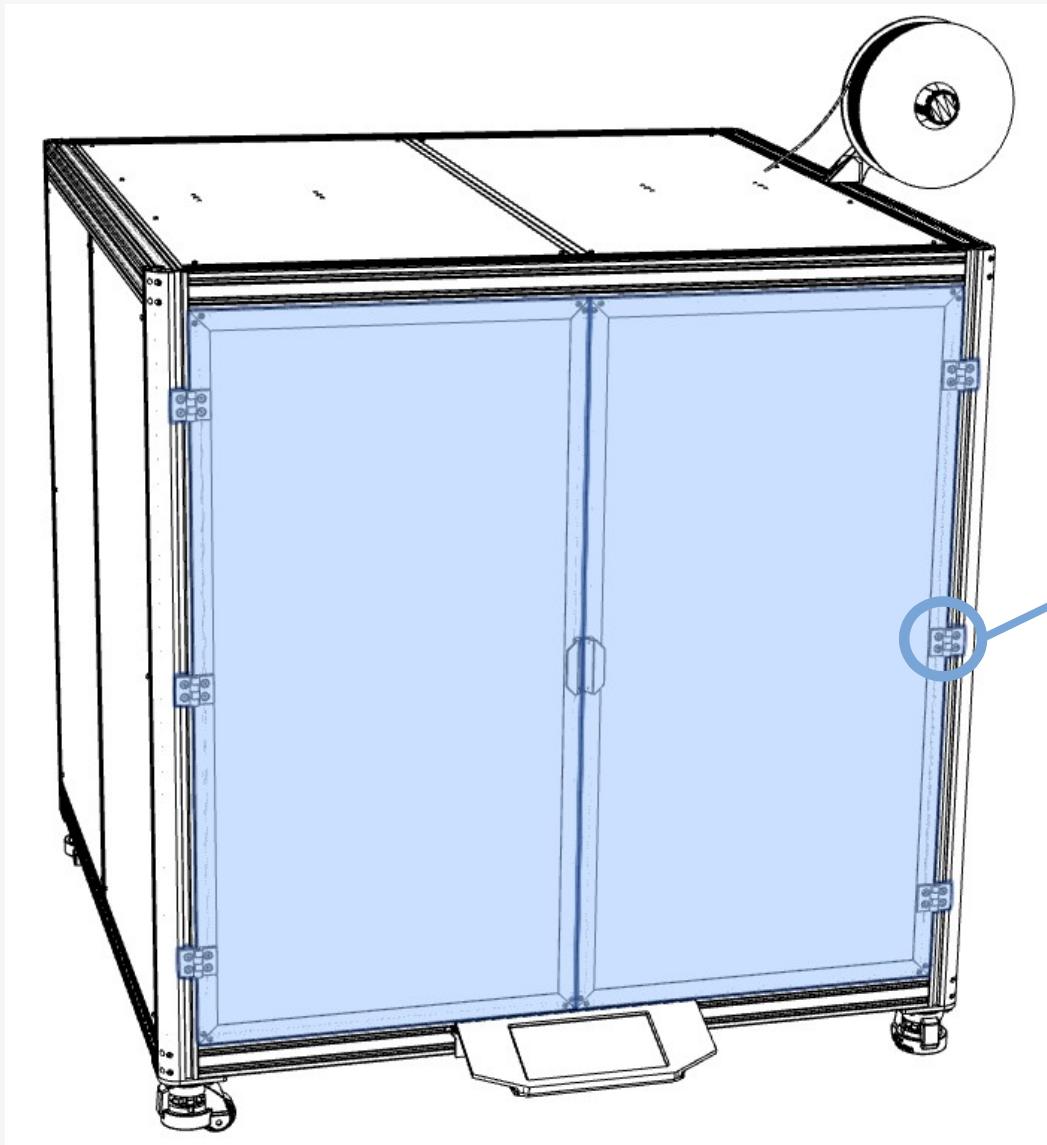
**ASSEMBLY**

- Insert the acrylic sheet into both sides of the profile as shown in the picture, close the end cover;
- Tighten it with screws;



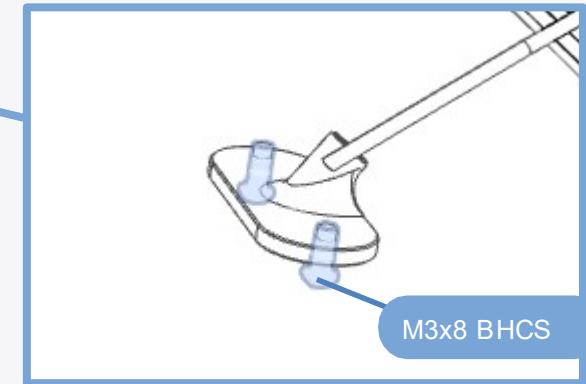
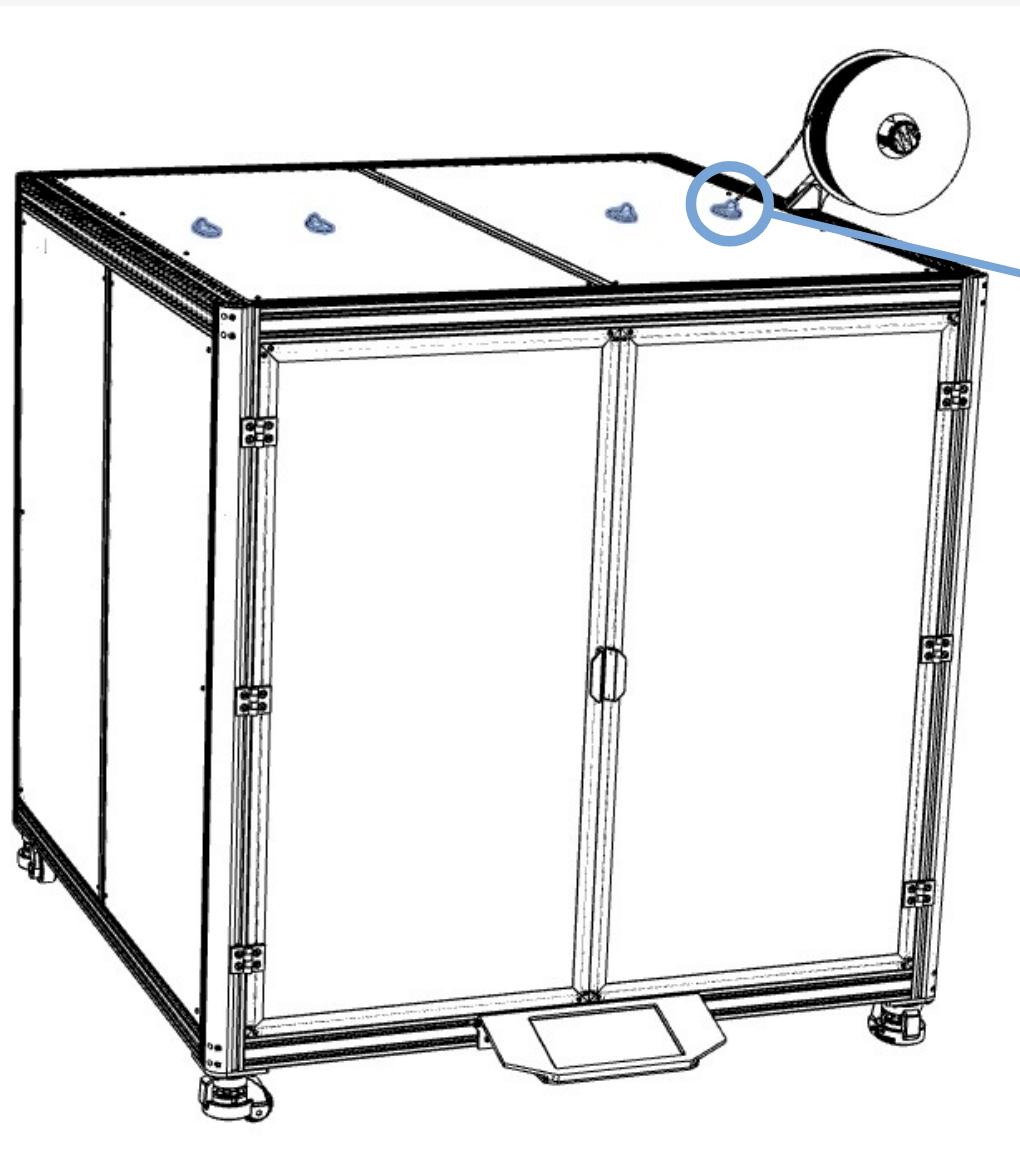
### ASSEMBLY

- Take the hinges out of the accessories bag;
- Install the hinge and tighten it with the hexagonal nut;
- Repeat the previous operation to assemble the remaining door;



**ASSEMBLY**

- Installing the door on the profile frame;
- Tighten it with screws;



**ASSEMBLY**

- Assemble according to the diagram;
- Tighten it with screws;

## NEXT STEPS

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### ASSEMBLY COMPLETED! ... NEXT STEP: SETUP & CALIBRATION

This manual is designed to be a reference manual for the build process of a Venture\_XL printer. Additional details about the build and background on advanced topics can be found on our documentation page linked below.

The software setup and other initial setup steps with your new printer can also be found on our documentation page. We recommend starting [here](#).



[https://github.com/FYSETC/Venture\\_XL](https://github.com/FYSETC/Venture_XL)

#### HOW TO GET HELP

If you need assistance with your build, we're here to help. Head on over to our Discord group and post your questions. This is our primary medium to help VORON Users and we have a great community that can help you out if you get stuck. Alternatively, you can use our subreddit.



**DISCORD**

<https://discord.gg/khdETAcYW2>

#### REPORTING ISSUES

Should you find an issue in this document or have a suggestion for an improvement please consider opening an issue on GitHub ([https://github.com/FYSETC/Venture\\_XL](https://github.com/FYSETC/Venture_XL)).

When raising an issue please include the relevant page numbers and a short description; annotated screenshots are also very welcome.

We periodically update the manual based on the feedback we get.

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Enjoy your printer.