





SIBOOR Trident [JUNE] ASSEMBLY

VERSION 2024/8/7

INTRODUCTION



Important Note:

This assembly manual is exclusively designed for the SIBOOR Trident JUNE kit. For the official VORON Trident assembly manual, please refer to the following link: https://github.com/VoronDesign/Voron-Trident/tree/main/Manual

Why the Change?

The SIBOOR Trident JUNE kit includes numerous modifications and significant electrical adjustments. Simply adding supplementary pages to the existing manual is no longer sufficient. You would have to navigate through many pages repeatedly.

To enhance user experience, SIBOOR has opted to create a new assembly guide from scratch, ensuring it closely matches the Trident JUNE kit. The assembly logic and the presentation of most steps in this manual are inspired by the original VORON manual.

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/Lzhikai/SIBOOR-Voron-Trident-June/issues).

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 feed-

TABLE OF CONTENTS



Introduction	04	Stealthburner	123
Hardware	08	Wiring Prep	171
Frame	12	Wiring	190
CNC AWD Drive-Y Axis	23	12032 _Part_Fans	205
CNC AWD Drive-X Axis	43	Fume_pack	210
Belts	52	Clickyclacky_door	227
Z Axis	63	Panels	242
Skirts	92	Appendix 1-Reinforcement	249
Printer Bed	109	Appendix 2-Diagonal Rod	251
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Click on the title or page sequence to go directly to the page.

INTRODUCTION

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.



Voron Discord: https://discord.gg/voron

Siboor Discord: https://discord.gg/BMJD4puJf6

Here are some portals for your convenience:

- -VORON Design: www.vorondesign.com
- -SIBOOR DOCS: https://docs.siboor.com
- -SIBOOR Trident [JUNE] Github: https://github.com/Lzhikai/SIBOOR-Voron-Trident-June

If you want to learn more about the mods included in this kit:

- -CNC AWD Drive: https://github.com/GKD-Team/Voron-Trident-CNC-Gantry
- -Cartographer Probe: https://docs.cartographer3d.com
- -Fume pack V2: https://github.com/Exerqtor/Voron/tree/main/Mods/fume_pack
- -Clickyclacky door: https://github.com/tanaes/whopping_Voron_mods/tree/main/-clickyclacky_door

Mods already included in the SIBOOR Trident [JUNE] GitHub are not listed separately.

INTRODUCTION

PART PRINTING GUIDELINES

The Voron Team has provided the following print guidelines for you to follow in order to have the best chance at success with your parts. There are often questions about substituting materials or changing printing standards, but we recommend you follow these:

3D PRINTING PROCESS

Fused Deposition Modeling (FDM)

MATERIAL

ABS

I AYFR HFIGHT

Recommended: 0.2mm

EXTRUSION WIDTH

Recommended: Forced 0.4mm

INFILL TYPE

Grid, Gyroid, Honeycomb, Triangle or Cubic

INFILL PERCENTAGE

Recommended: 40%

WALL COUNT

Recommended: 4

SOLID TOP/BOTTOM LAYERS

Recommended: 5

FILE NAMING

By this time you should have already downloaded our STL files from the Voron GitHub. You might have noticed that we have used a unique naming convention for the files. This is how to use them.

PRIMARY COLOR

Example z_joint_lower_x4.stl These files will have nothing at t

These files will have nothing at the start of the filename.

ACCENT COLOR

Example [a]_tensioner_left.stl

We have added "[a]" to the front of any STL file that is intended to be printed with accent color.

QUANTITY REQUIRED

Example [a]_z_belt_clip_lower_x4.stl

If any file ends with "_x#", that is telling you the quantity of that part required to build the machine.

*The suffix "by_SIBOOR" on some STL files indicates that these files differ from the original VORON design or the original MOD design and are specifically tailored for the SIBOOR Trident JUNF KIT.

*The prefix "[Two-color]" indicates that the STL file requires printing with two different colors of ABS filament.



In this manual, parts marked with a red star indicate they are ACCENT COLOR.



BUTTON HEAD CAP BOLT (BHCS)

Metric fastener with a domed shape head and hex drive. Most commonly found in locations where M5 fasteners are used.



SOCKET HEAD CAP BOLT (SHCS)

Metric fastener with a cylindrical head and hex drive. The most common fastener used on the Voron.



FLAT HEAD COUNTERSUNK BOLT (FHCS)

Metric fastener with a cone shaped head and a flat top.



HEAT SET INSERT

Heat inserts with a soldering tip so that they melt the plastic when installed. As the plastic cools, it solidifies around the knurls and ridges on the insert for excellent resistance to both torque and pull-out.



HEX NUT

Hex nuts couple with bolts to create a tight, secure joint. You'll see these used in both M3 and M5 variants throughout this guide.



HAMMERHEAD NUT

Nut that can be inserted into the slot of an aluminium profile. Used exclusively for panel mounting, all other components use T-Slot nuts.



POST INSTALL T-SLOT NUT (T-NUT)

Nut that can be inserted into the slot of an aluminium profile. Used in both M3 and M5 variants throughout this guide. Often also called "roll-in t-nut".



FLANGE NUT

A flange nut is a nut with a wide edge that increases contact area, distributes pressure, and prevents loosening.



F695 BEARING

A ball bearing with a flange used in various gantry locations.



695 BFARING

Bearings are used to support and reduce friction between rotating parts in mechanical devices.



F623 BFARING

A ball bearing with a flange used . Used for drag chain brackets.



GE5C BEARING

A spherical bearing is a mechanical component enabling rotational movement and load transfer at various angles, comprising a spherical inner ring and a tilting outer ring.



PULLEY

GT2 pulley used on the motion system of the Voron.



IDLER

GT2 idler used in the motion system of the Voron.



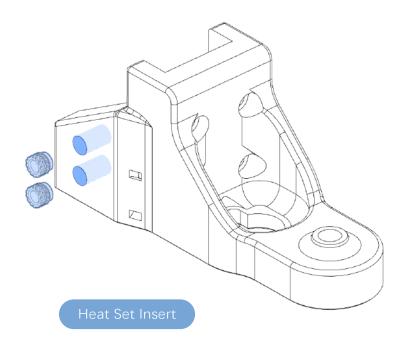
THUMB NUT

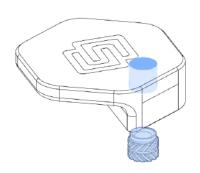
Used in the print bed as a spacer.



SET SCREW

Small headless fastner with an internal drive. Used in pulleys and other gears. Also called a grub screw.





HEAT SET INSERTS

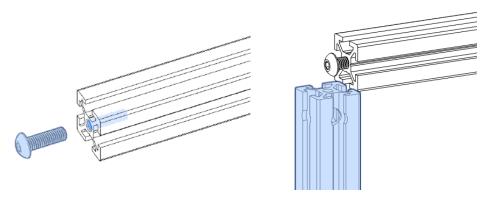
This design relies heavily on heat set inserts. Make sure you have the proper inserts (check the hardware reference for a close-up picture and the Sourcing Guide for dimensions).

If you've never worked with heat set inserts before we recommend you watch the linked guide.

You can choose to complete all the heat set inserts at once.
They are located on pages 76/93/125/126/199/203/206/211/212/230



https://voron.link/m5ybt4d

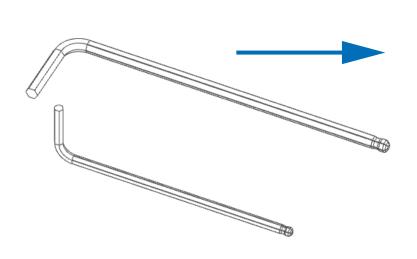


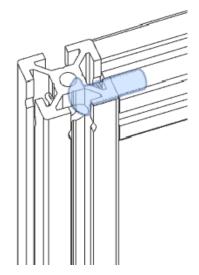
BLIND JOINT BASICS

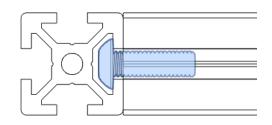
Blind Joints provide a cost effective and rigid assembly method

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

If you've never assembled one before we recommend you watch the linked guide.



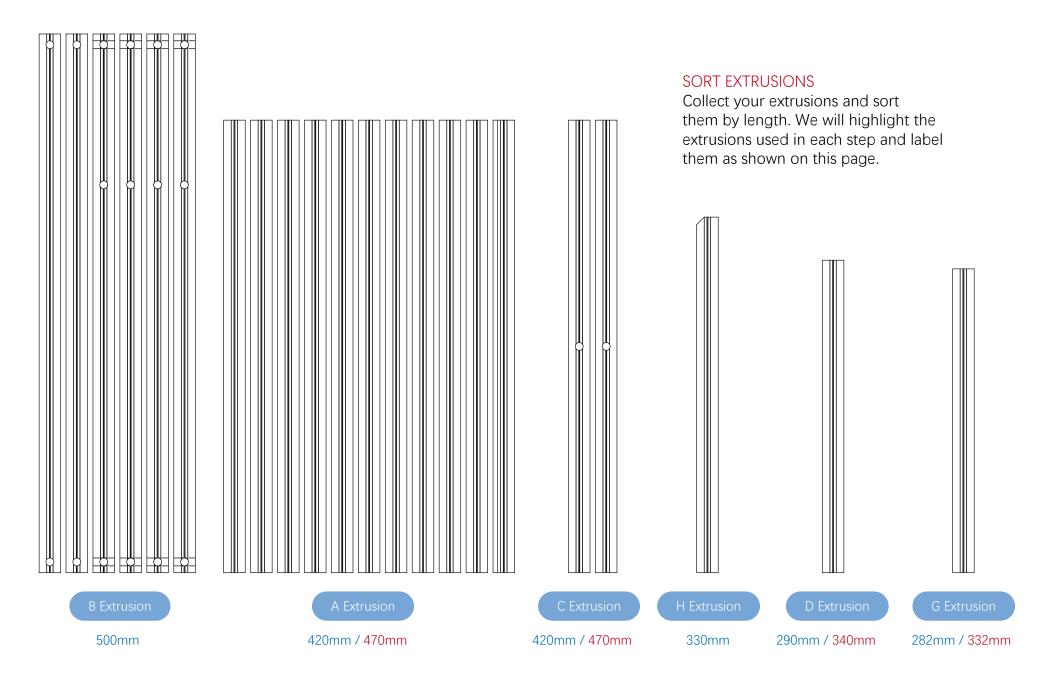




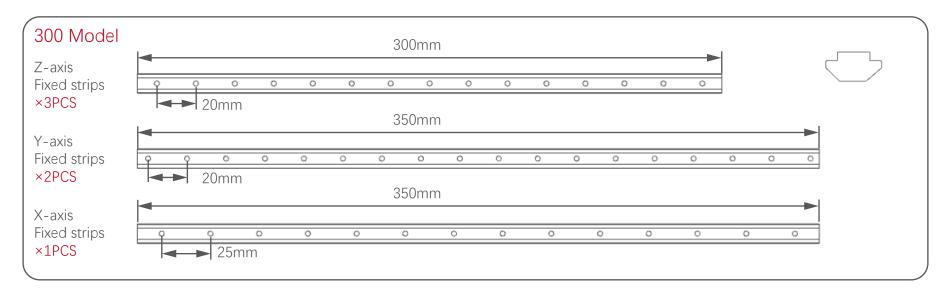


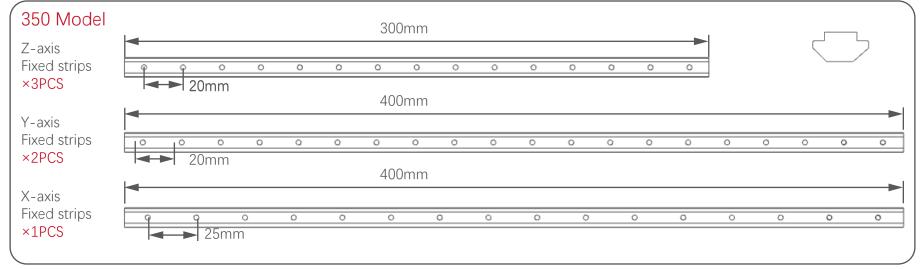
https://voron.link/onjwmcd

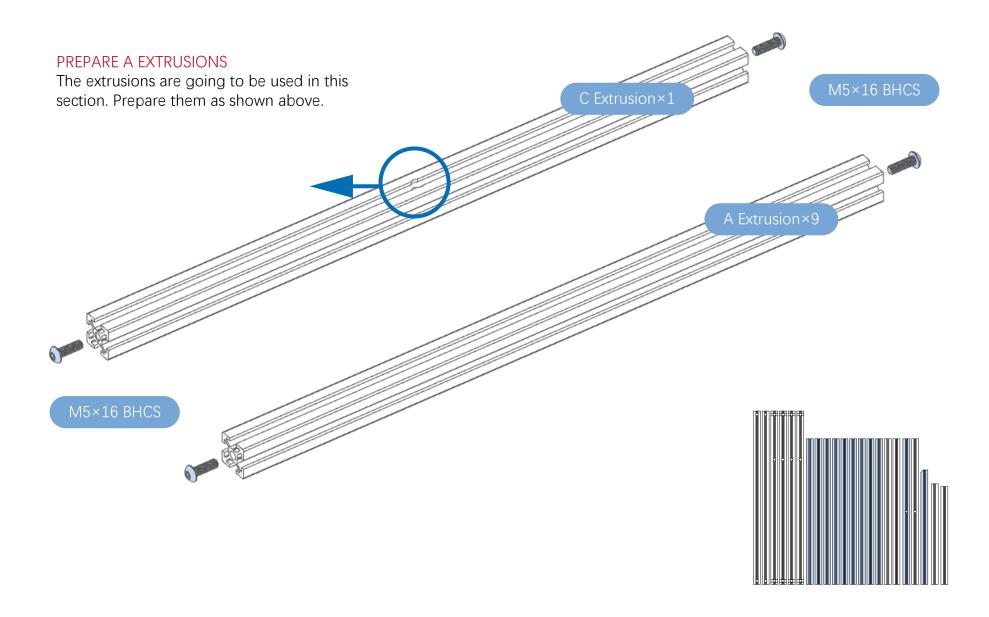


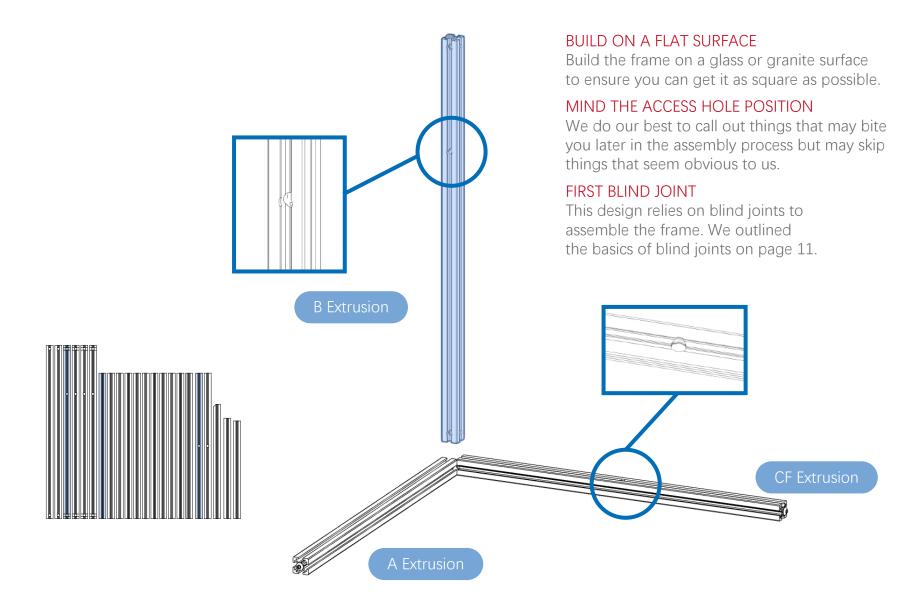


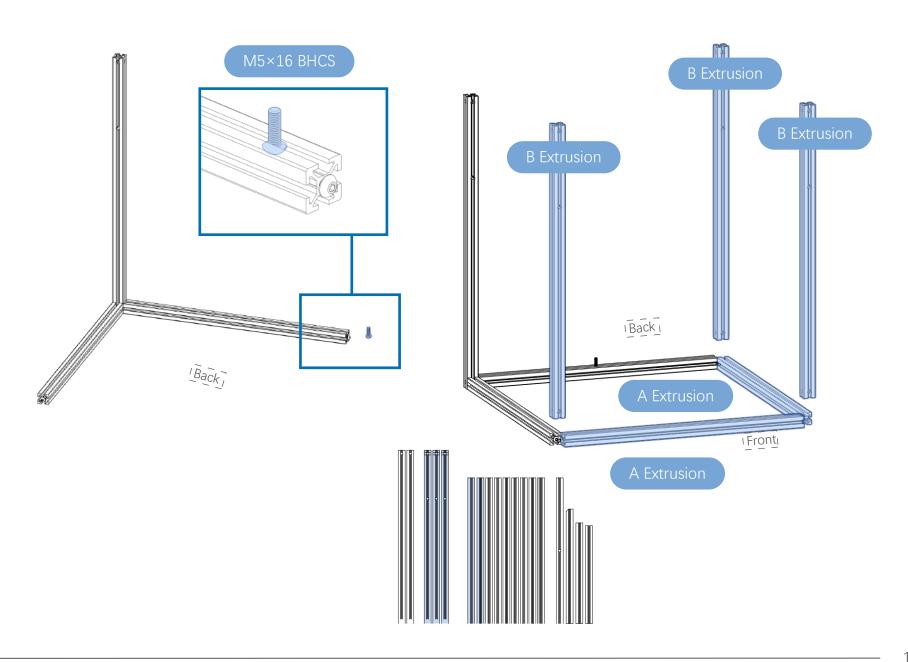
Please find these fixing strips and linear rails, and arrange them together. They will be needed soon.







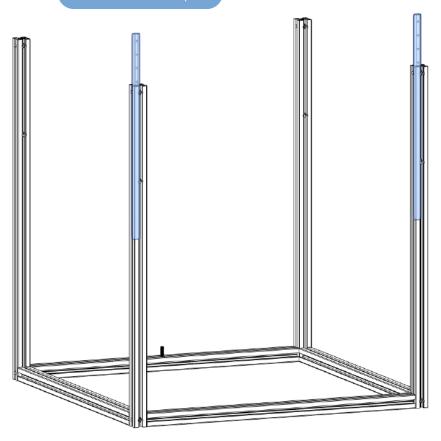




INSERTION DIRECTION

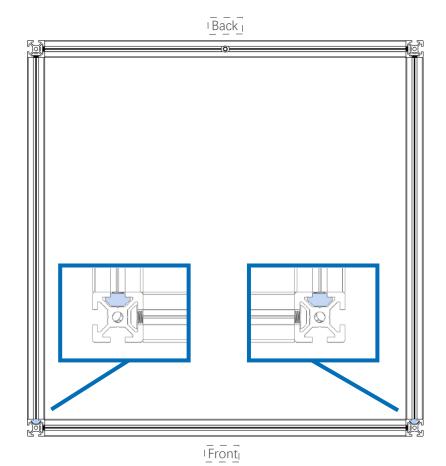
Insert the fixing strips into the profile, paying attention to the insertion direction.

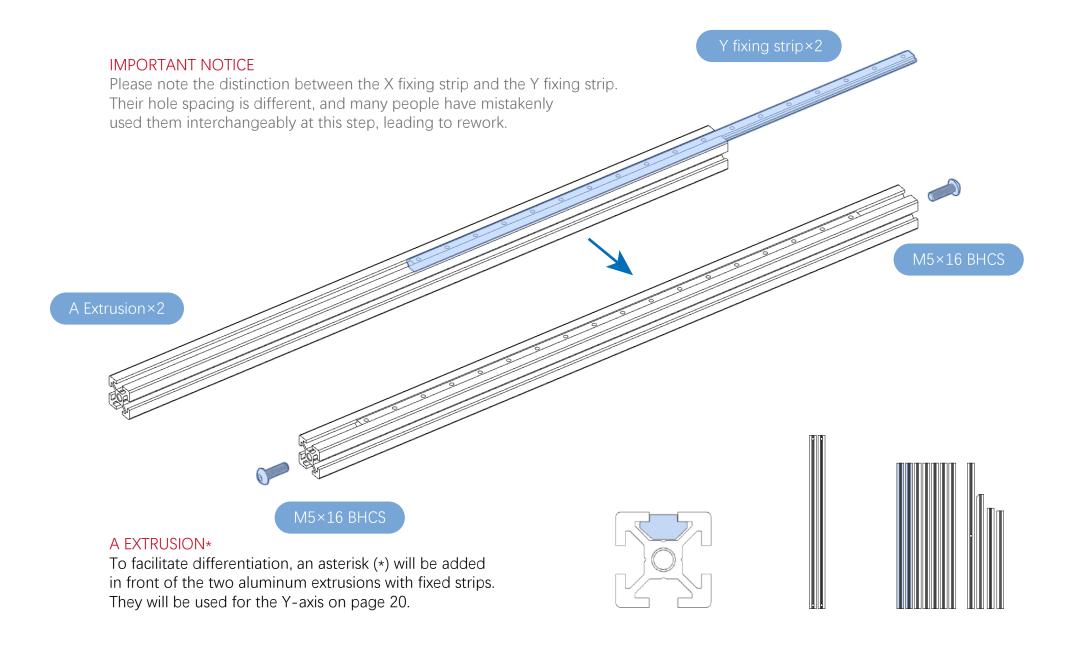
Z-axis Fixed strips

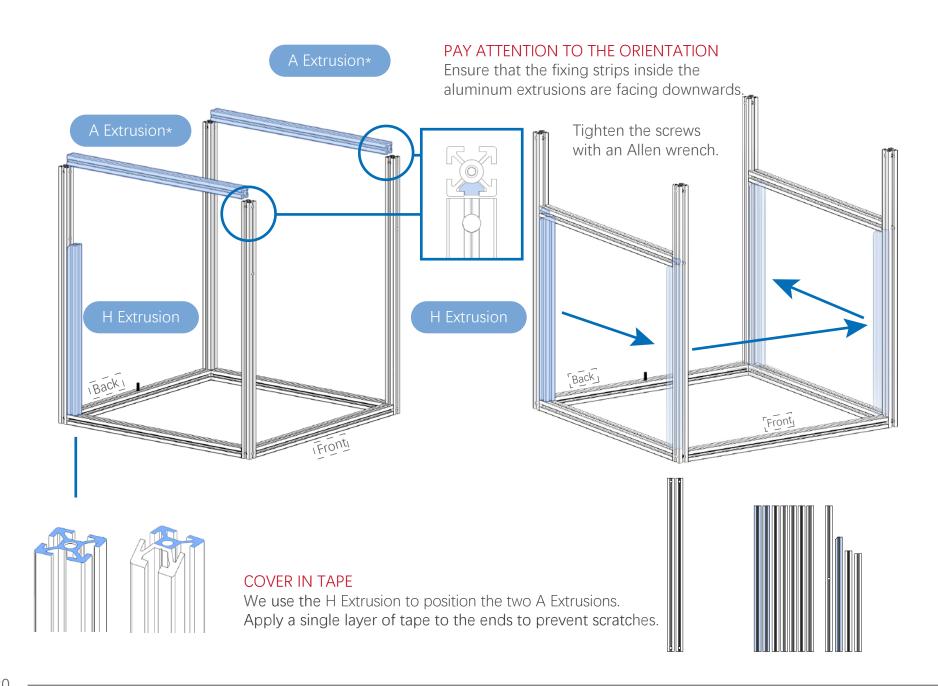


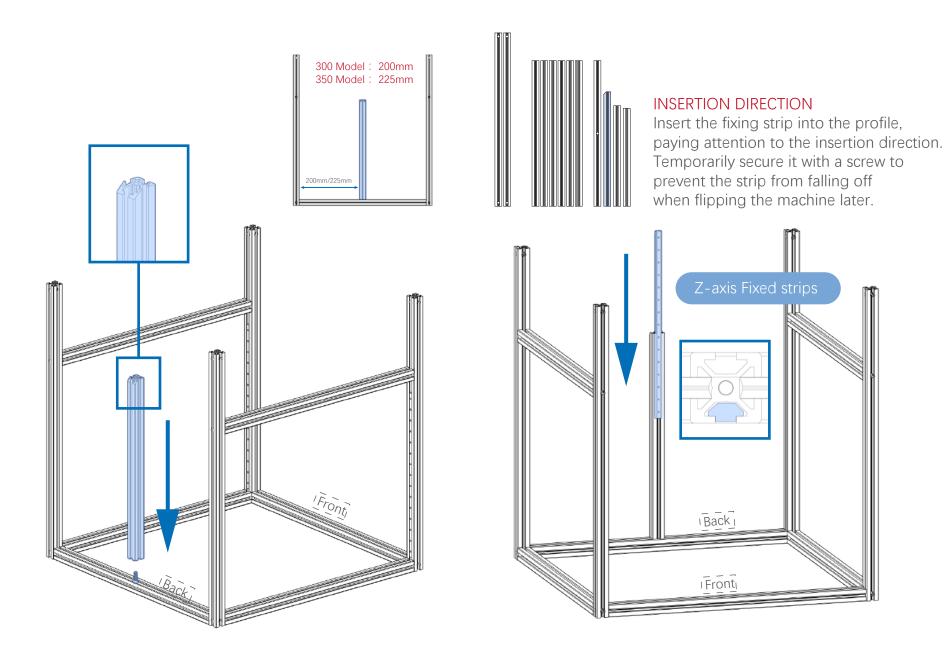
FIXED STRIPS

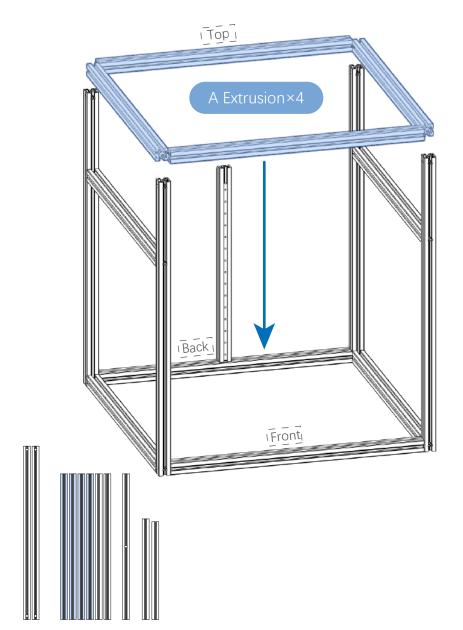
Push the two fixed strips into the deepest position and temporarily secure each with a screw to prevent the fixed strips from colliding with the aluminum extrusions when flipping the machine later.



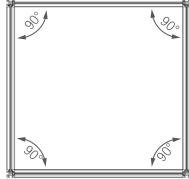




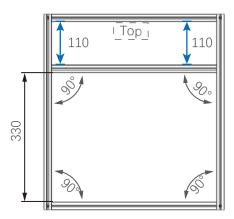








(SIDE VIEW)

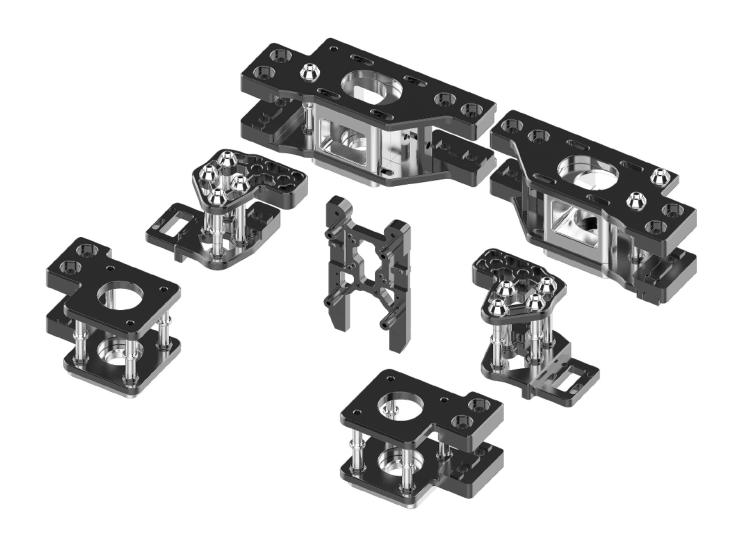




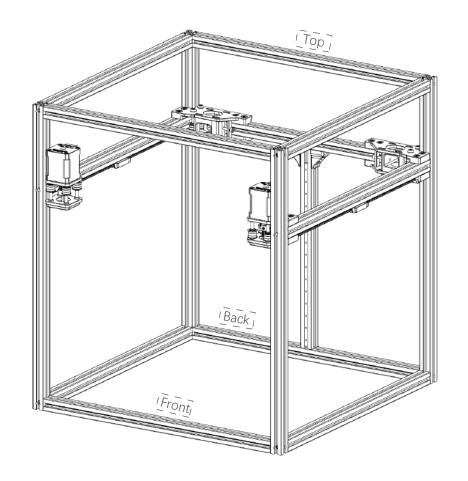
https://voron.link/kdtpzam

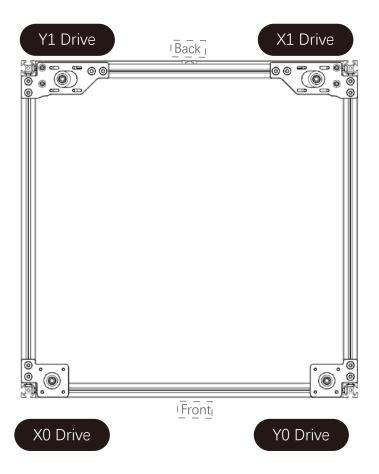
CHECK FOR SQUARENESS

Verify the angle of all corners and the overall squareness by measuring the diagonals. Refer to the second half of the linked video for additional information. CNC AWD Drive WWW.SIBOOR.COM







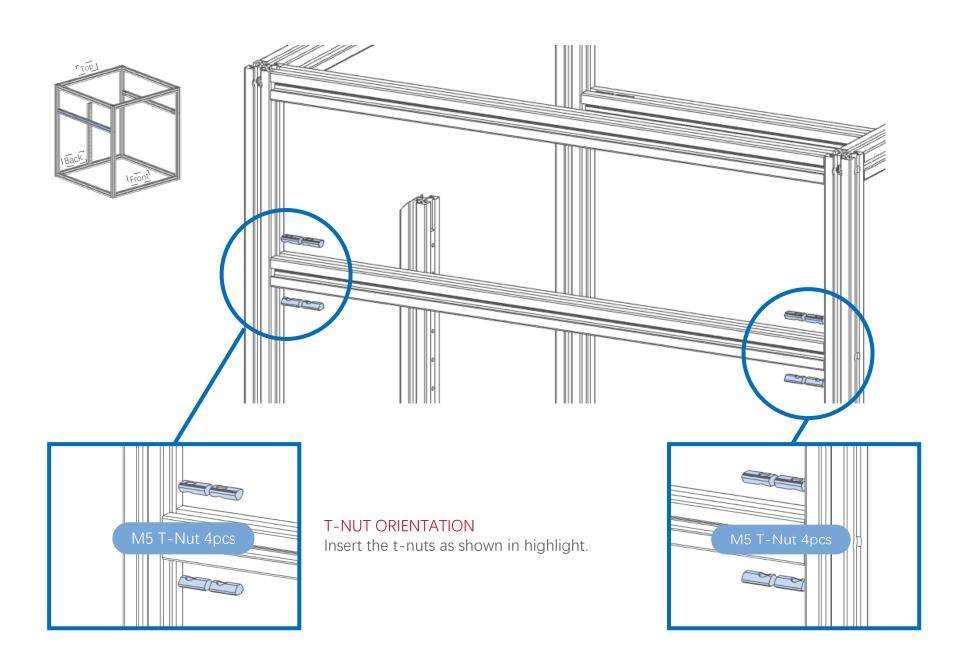


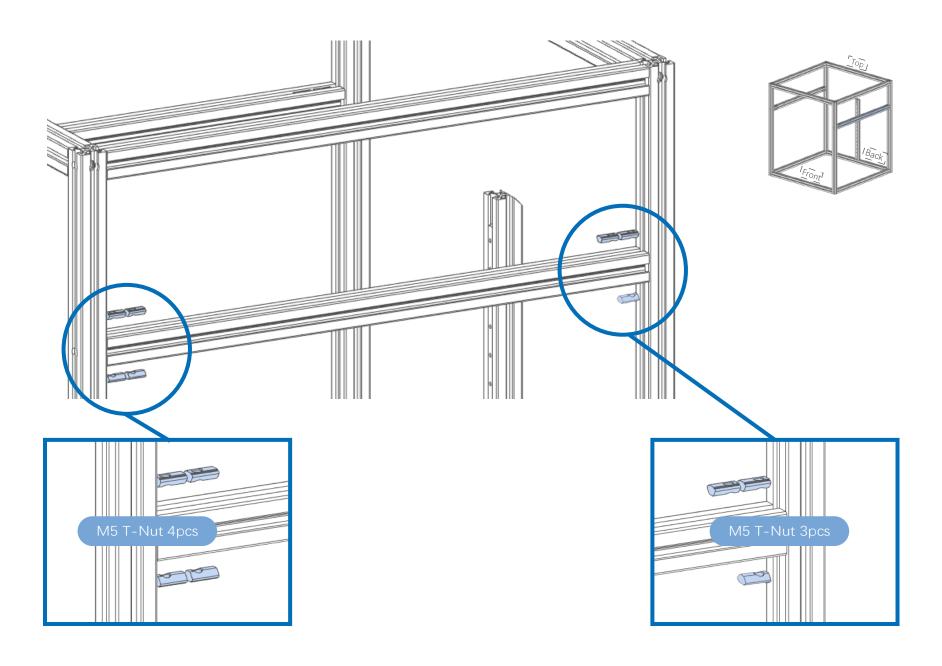
WHY IS THIS HERE?

As you likely skipped over the advice to fip through the entire manual we added graphics like these to assist you with the orientation of the part before you actually put them on the printer.

OVERVIEW

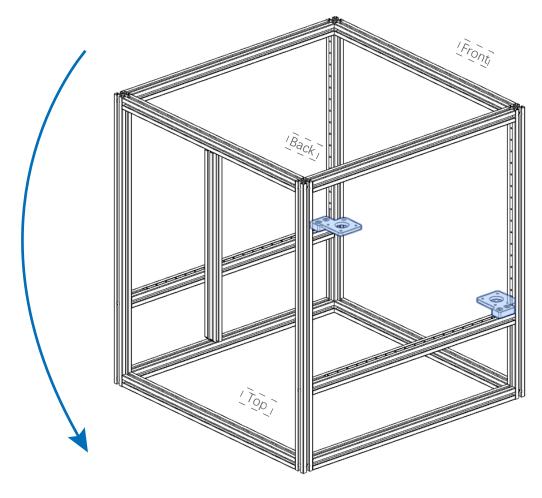
Individual chapters start with an overview of the components that will be built/added to the printer in the chapter.

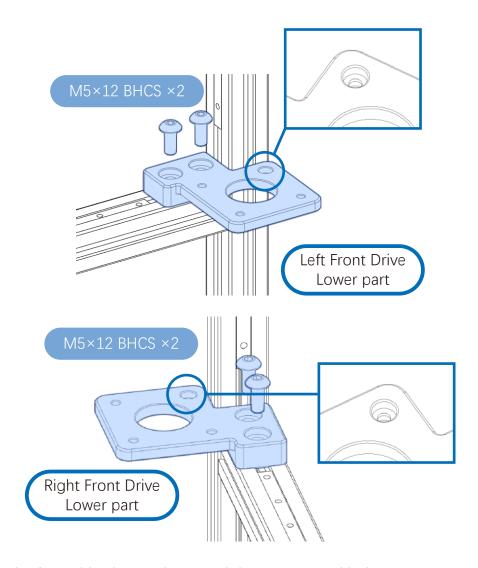




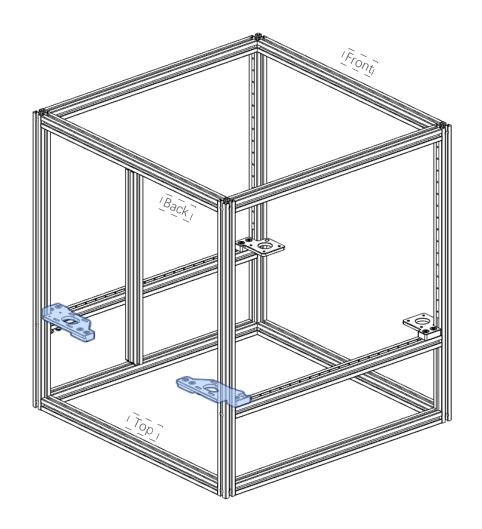
UPSIDE DOWN ASSEMBLY

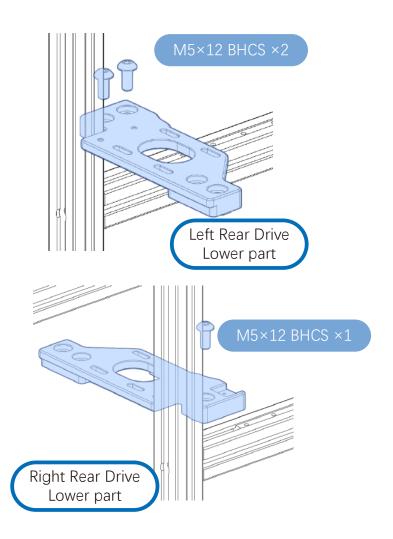
For ease of assembly, it is recommended that the printer be turned upside down for ease of subsequent operation.

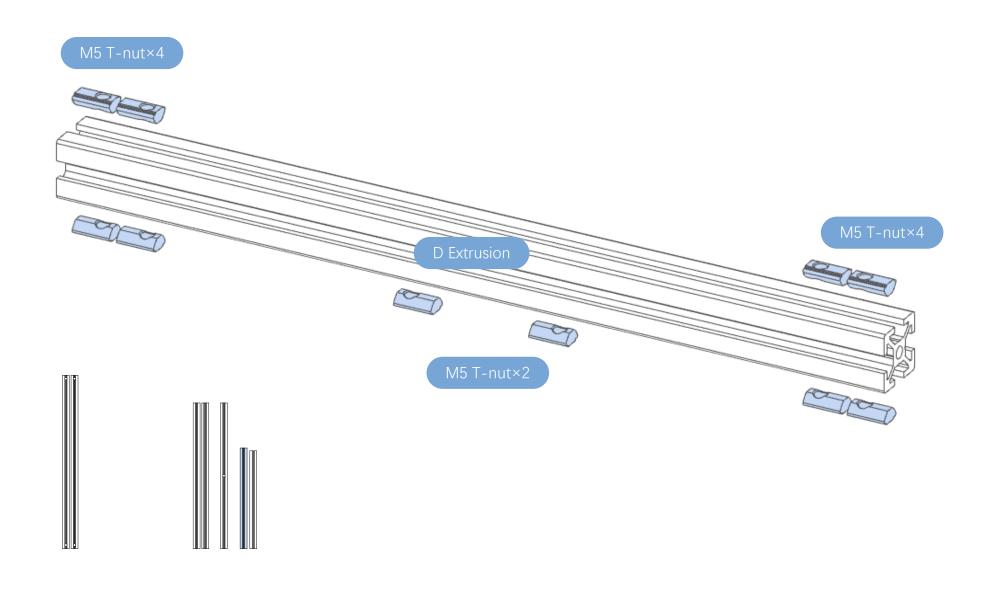


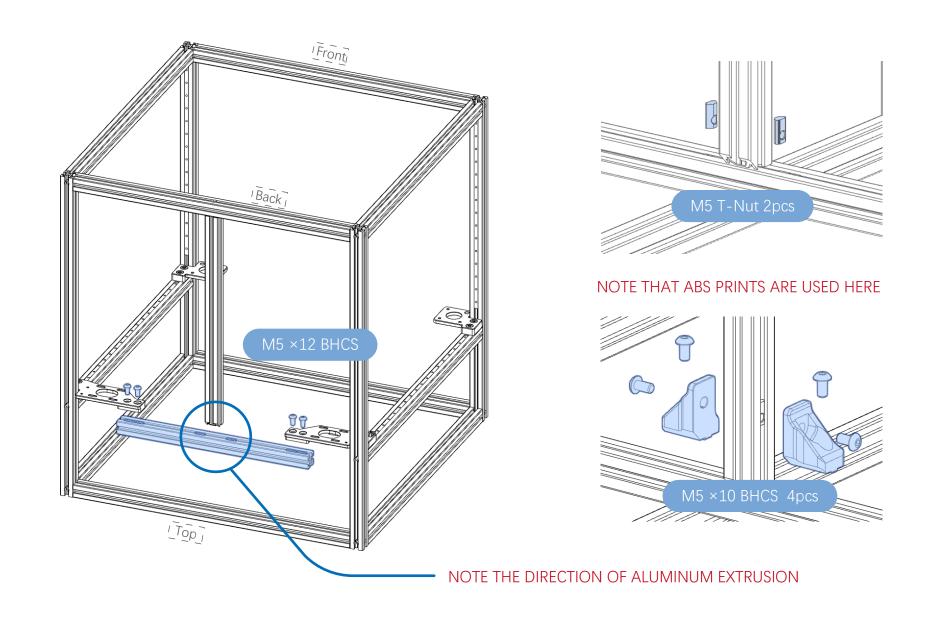


The front drive lower pieces each have a stepped hole, distinguishing them from the upper pieces.







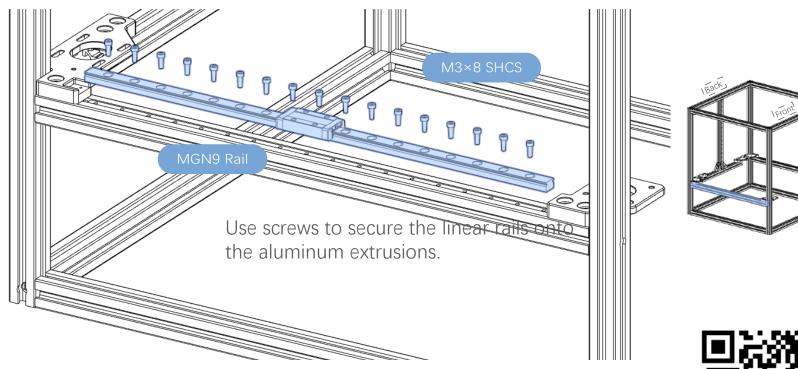


RUBBER STOPPERS ON LINEAR RAIL

You may notice rubber stoppers on both sides of the carriage. These effectively prevent the carriage from accidentally dislodging, so do not attempt to remove them before installing the screws.

CENTRED RAIL INSTALLATION GUIDE

Use the MGN9 guides to position the rail in the centre of the extrusion prior to fastening the bolts.



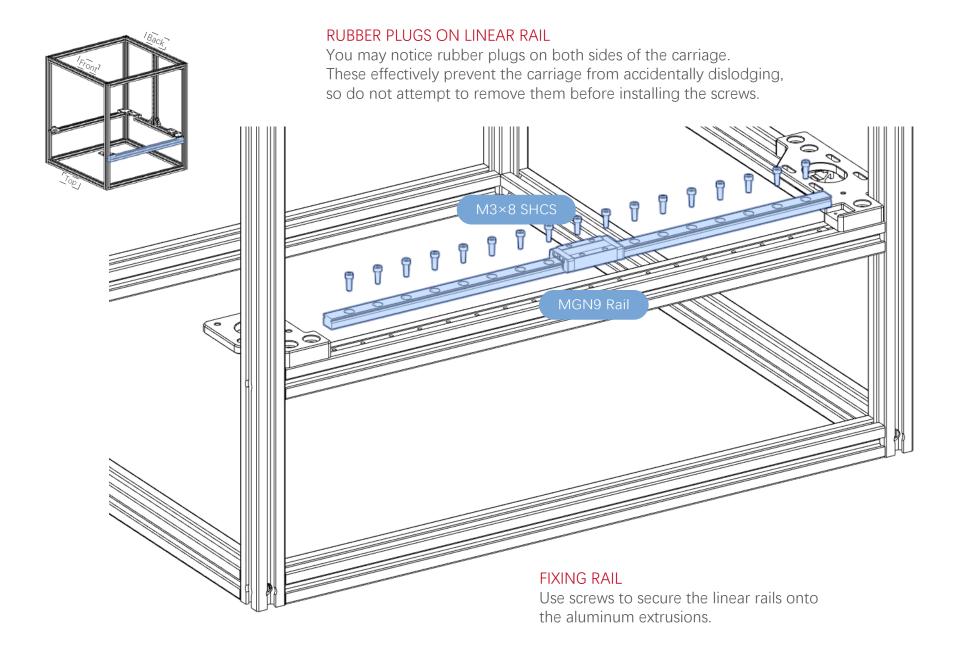
LINEAR RAILS - PREPARATION AND MOUNTING

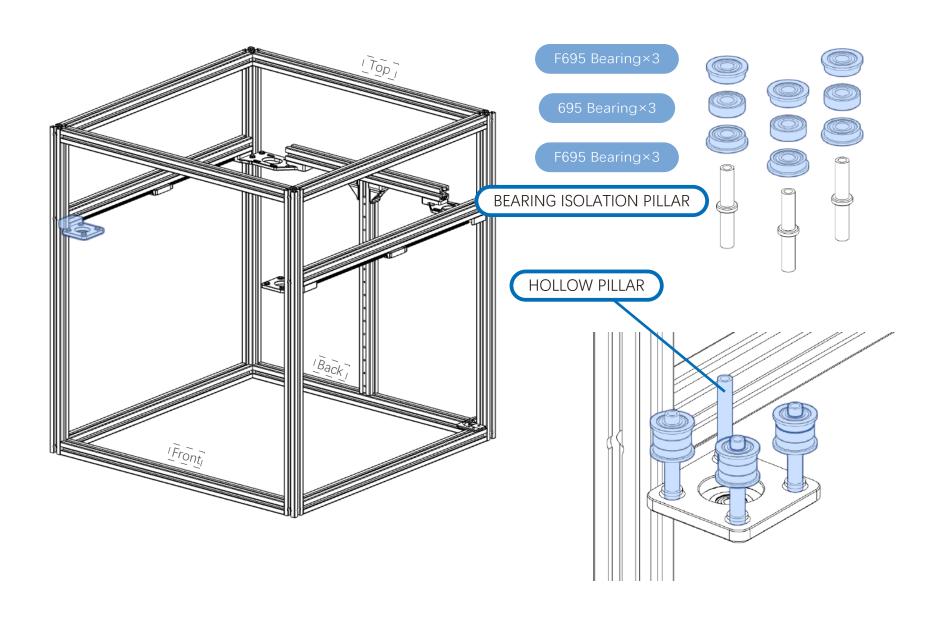
Most linear rails arrive with shipping oil. To ensure a smooth gliding motion and long service life, this oil needs to be removed and its rail carriage greased.

See the Voron sourcing guide for a recommended list of lubricants.

We attached a link to a video guide to get you started.





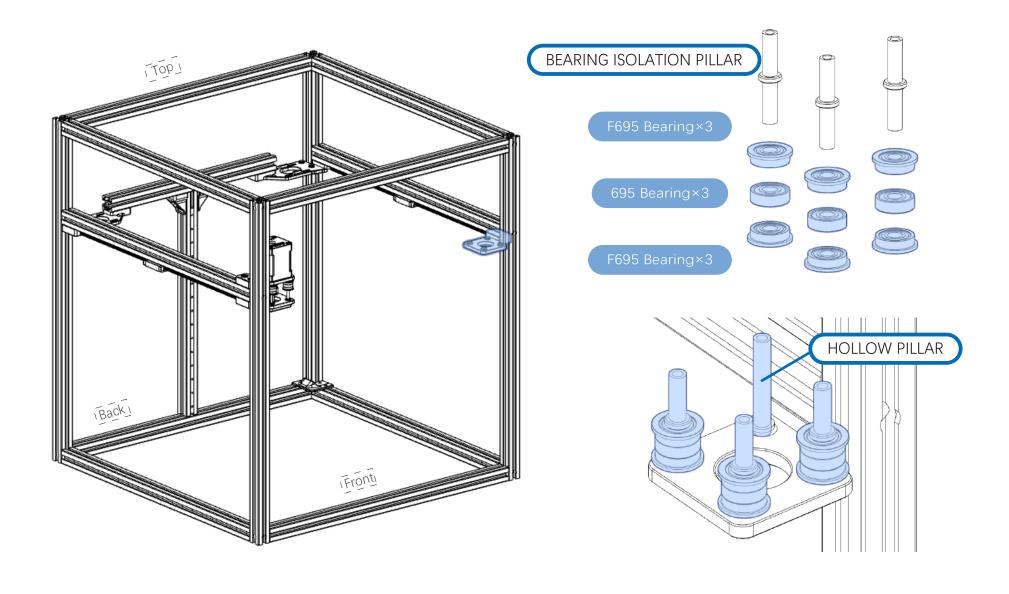


THREAD LOCKER

DIRECTION MOTOR ORIENTATION Pay attention to the orientation of the cable exit. The set screws should align with the notch on the motor shaft. M5×12 BHCS 18.7 4.5 M3×35 SHCS M3×45 SHCS

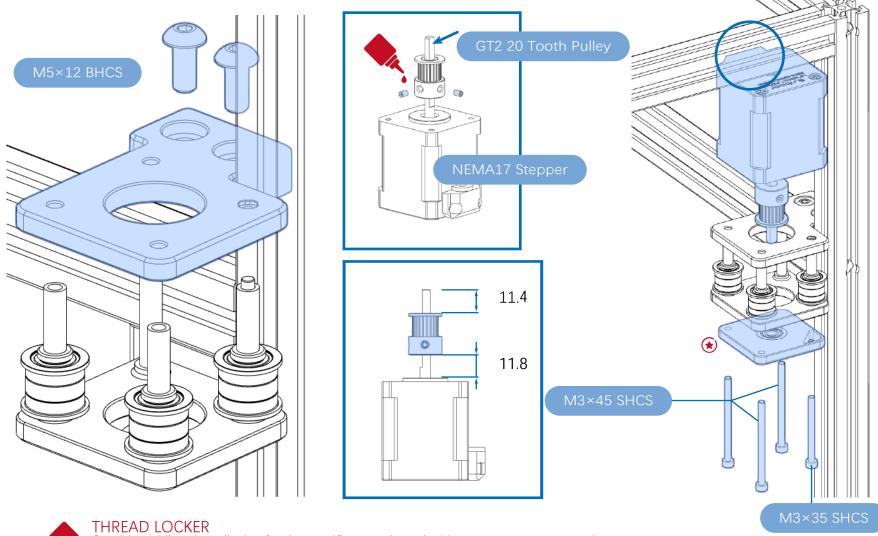
Consider adding threadlocker for the specific screw (e.g., the Voron motor mount screw). this screw often loosens and causes tension issues. Note that some threadlockers might lock too tightly for future adjustments. If threadlocker is unavailable, you can temporarily skip this step.

A bearing cap with a triangular notch is used in this instance.



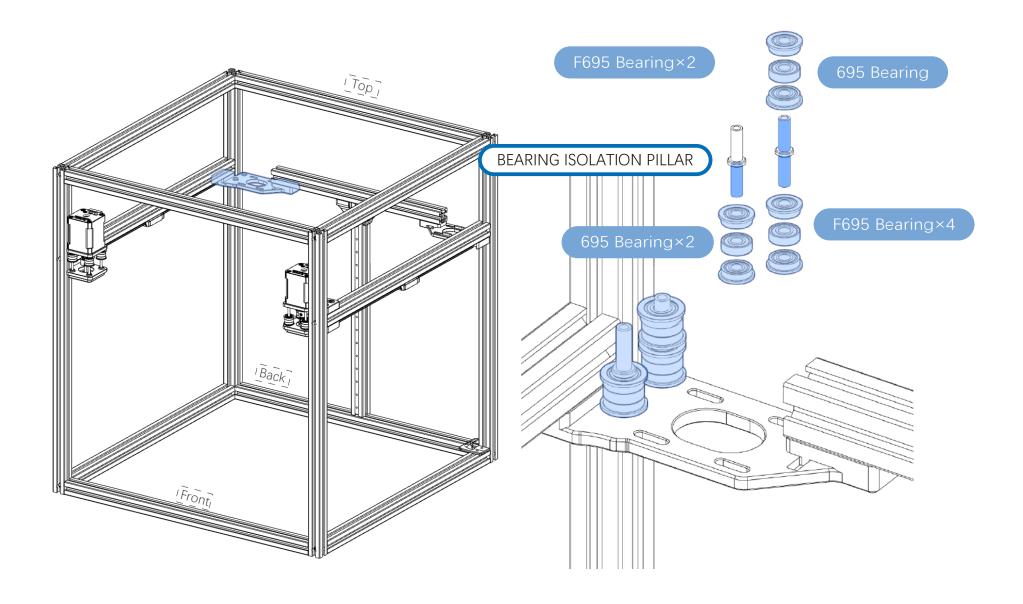
DIRECTION

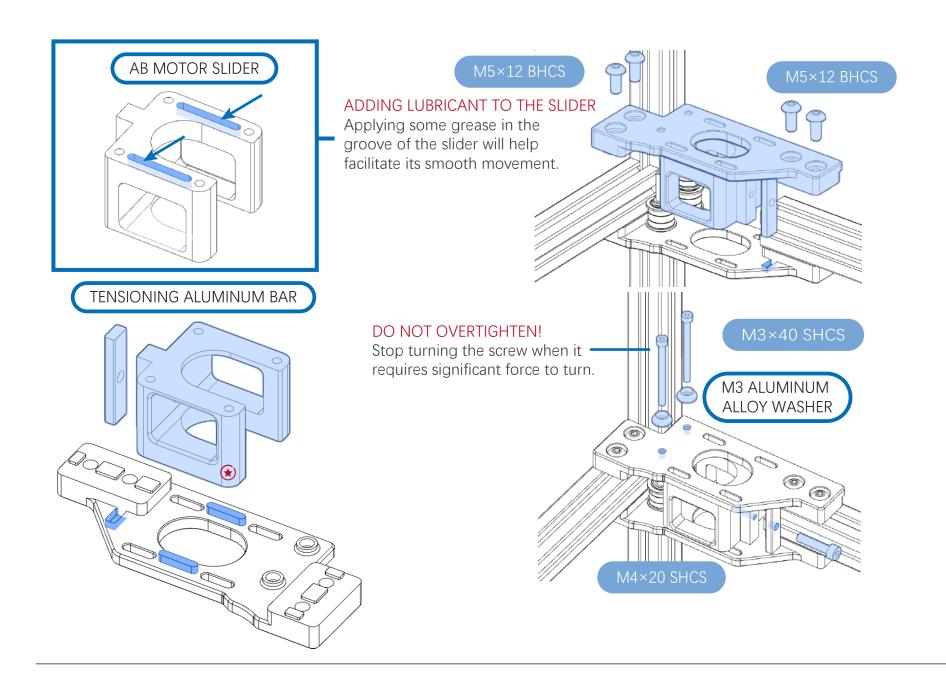
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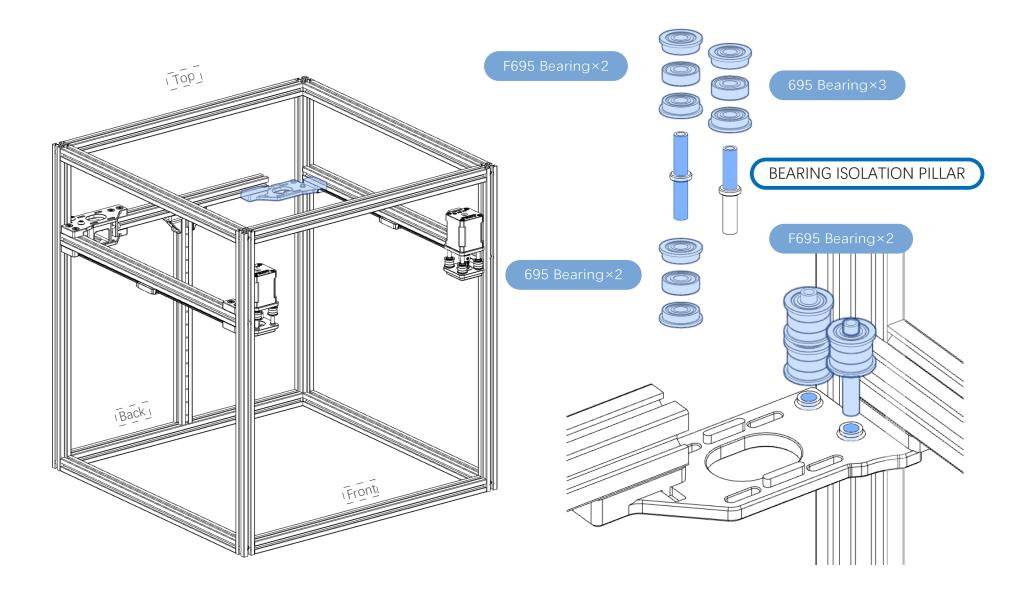


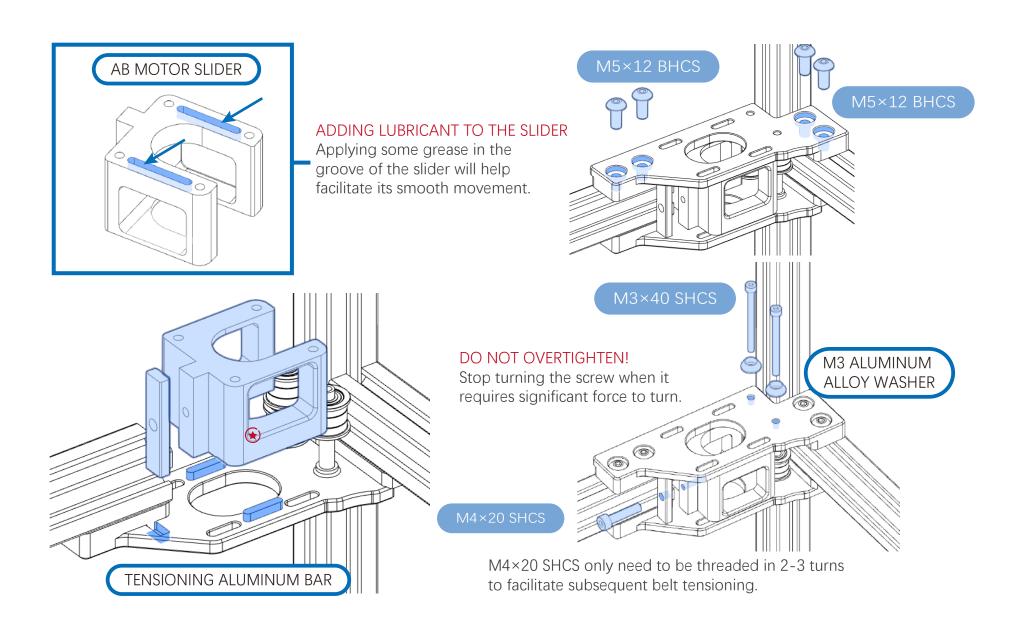


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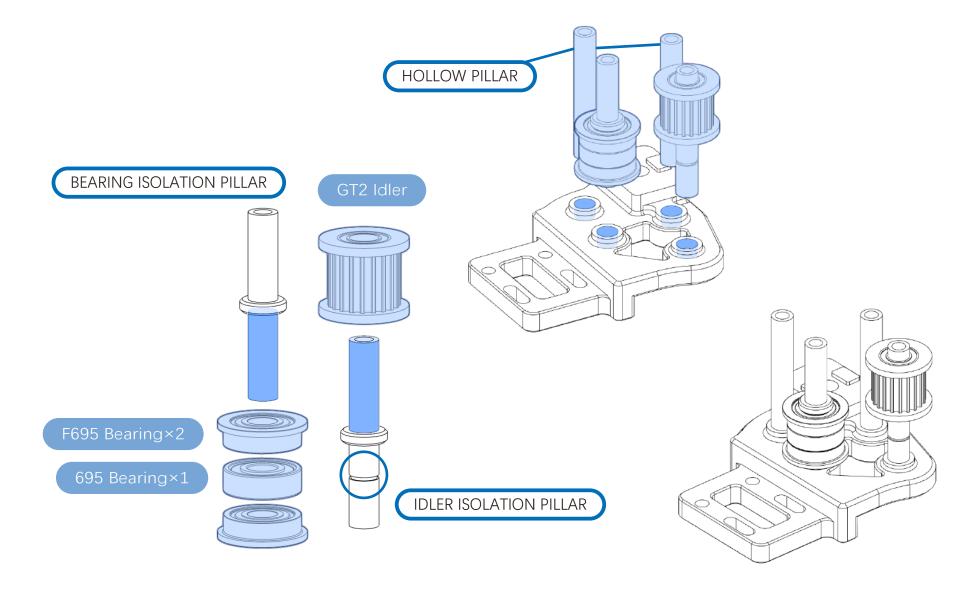


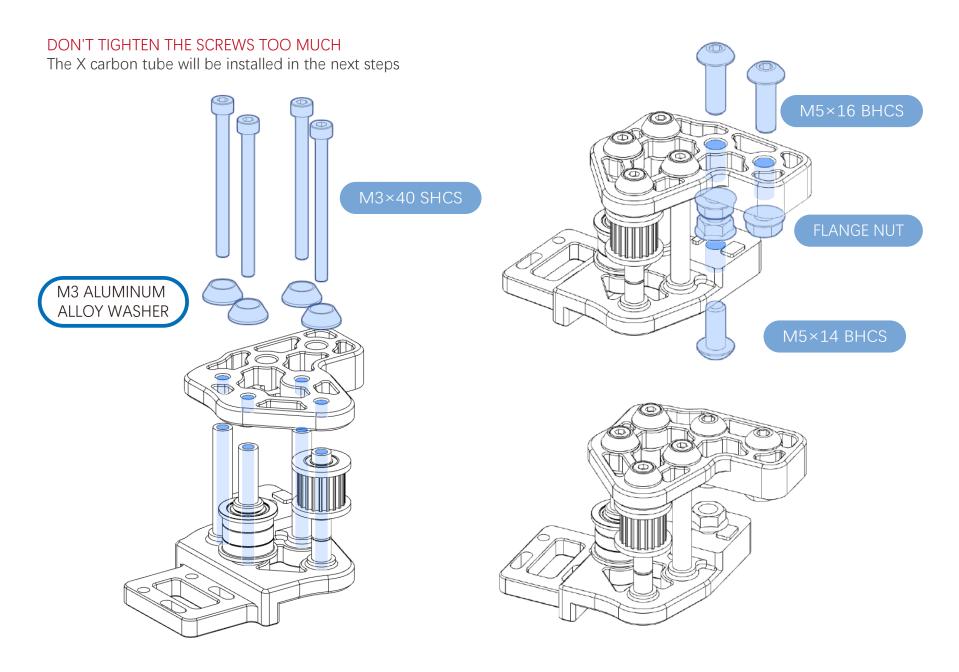


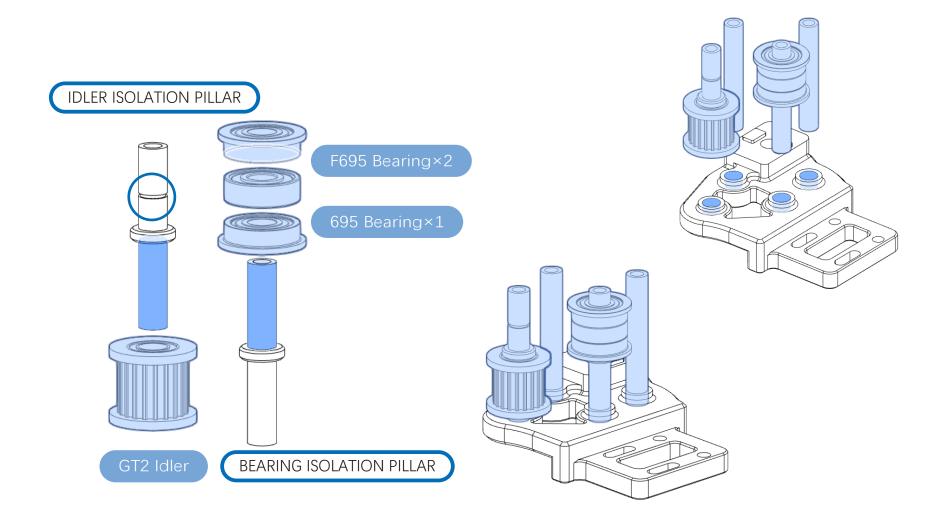


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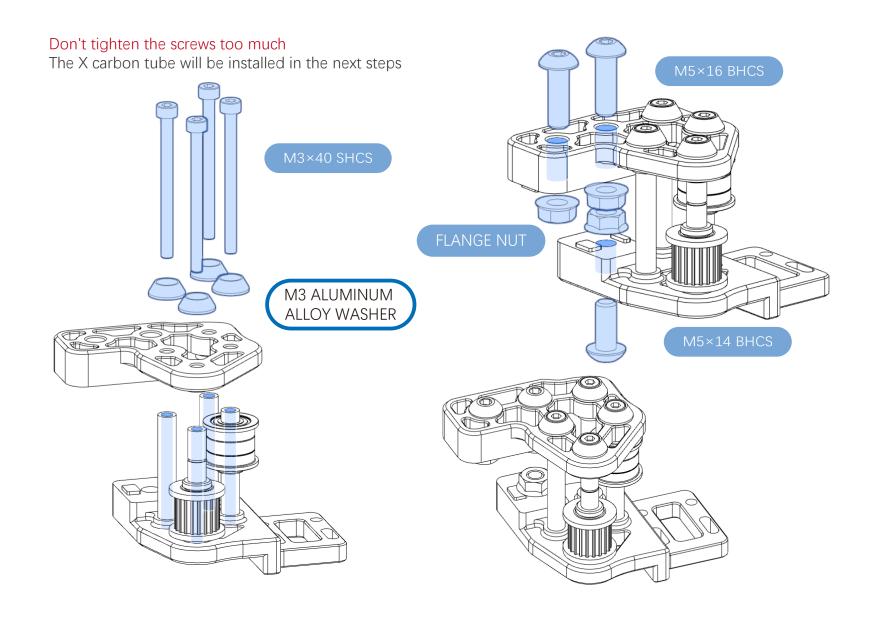






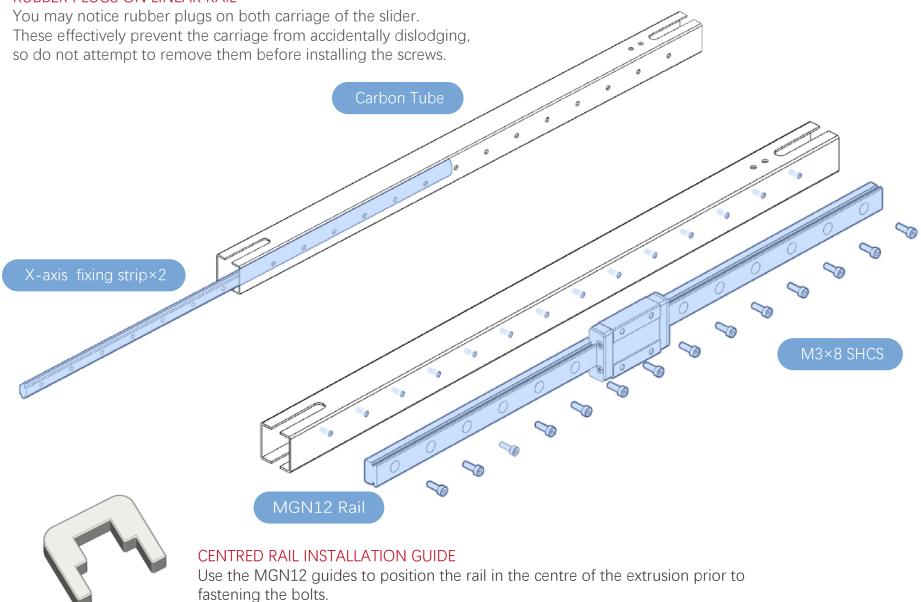




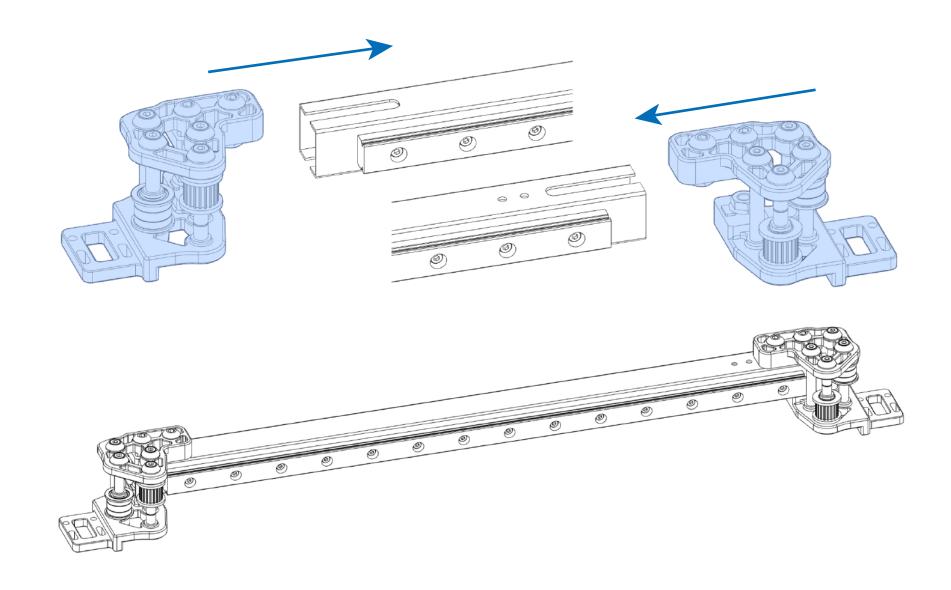


X AXIS

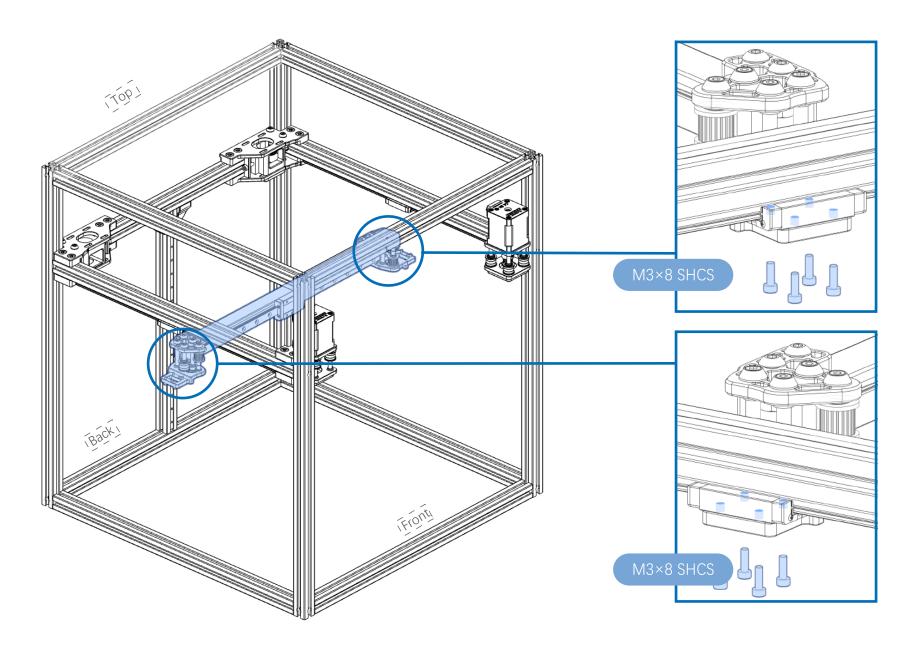
RUBBER PLUGS ON LINEAR RAIL







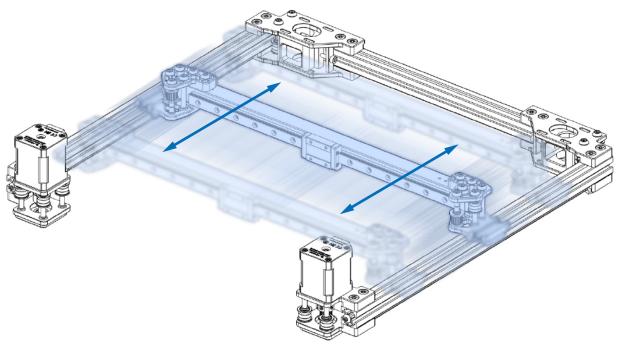


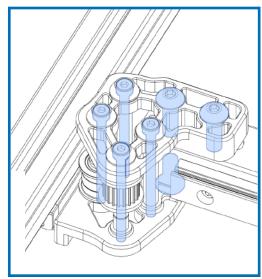


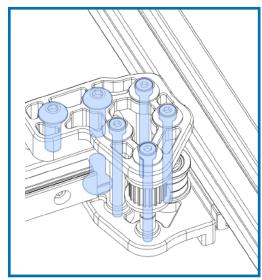
ADJUSTING THE X-AXIS JOINTS

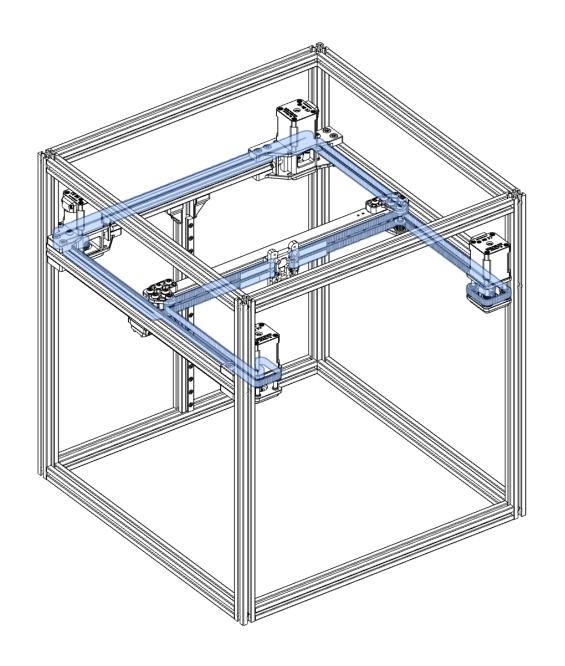
Slide the X-axis part quickly along the Y-axis. Since the screws on both sides of the X-axis joints are not fully tightened, the joints will automatically adjust their positions on the carbon tubes during the sliding process. Once you feel the movement is very smooth and without any resistance, you can fully tighten the screws on both sides of the X-axis joints.

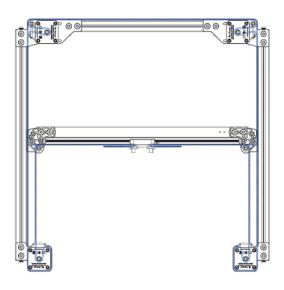
Don't forget to tighten the M5×12 BHCS screws at the bottom; otherwise, they may become loose and fall off during high-speed machine operation.

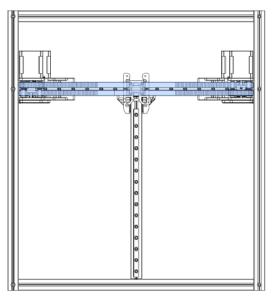






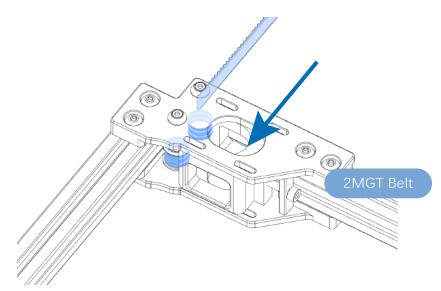






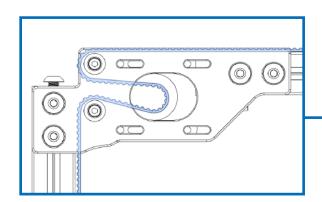
INSTRUCTION

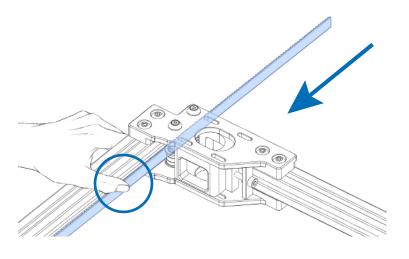
Cut the timing belt in the kit into two equal parts.



TEMPORARILY HIDING THE FRAME EXTRUSION

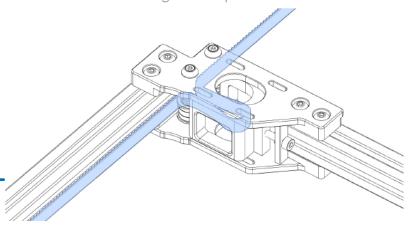
To provide a clear demonstration of the timing belt installation steps, we will temporarily hide the frame extrusion in the subsequent sections.

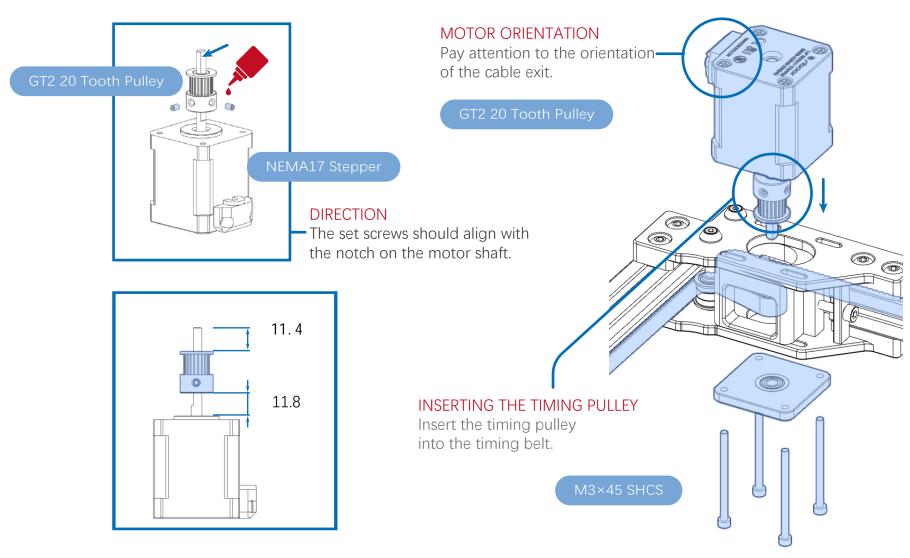




FEEDING THE TIMING BELT

Hold the timing belt at the exit point and continue feeding it until the belt is forced into place between the two sets of bearings under pressure.



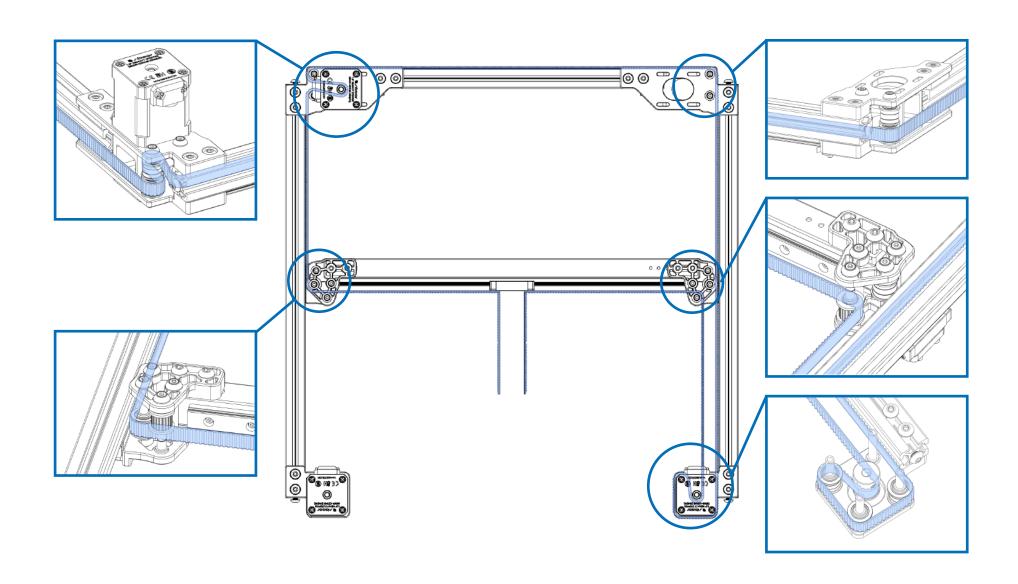




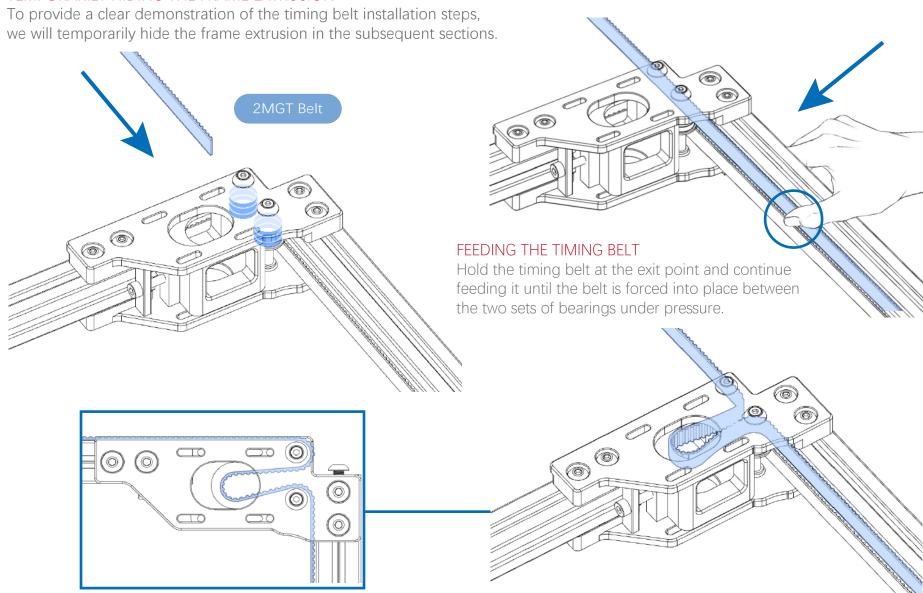
THREAD LOCKER

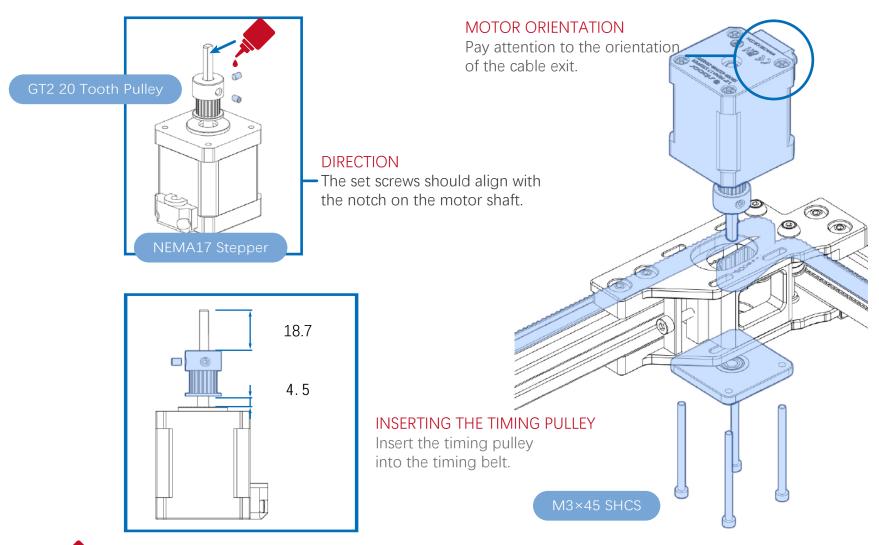
Consider adding threadlocker for the specific screw (e.g., the Voron motor mount screw). this screw often loosens and causes tension issues. Note that some threadlockers might lock too tightly for future adjustments. If threadlocker is unavailable, you can temporarily skip this step.

BELTS



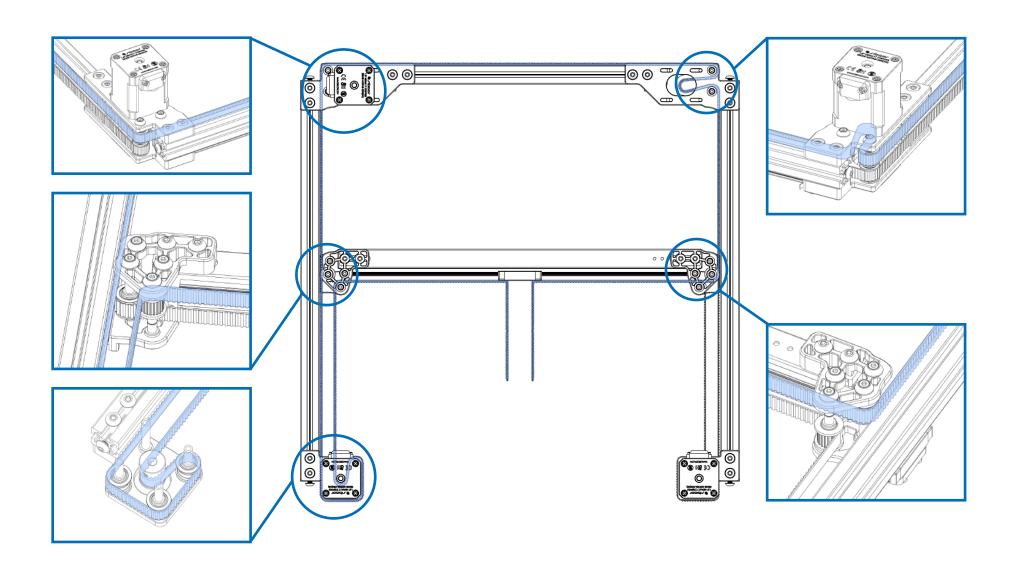
TEMPORARILY HIDING THE FRAME EXTRUSION





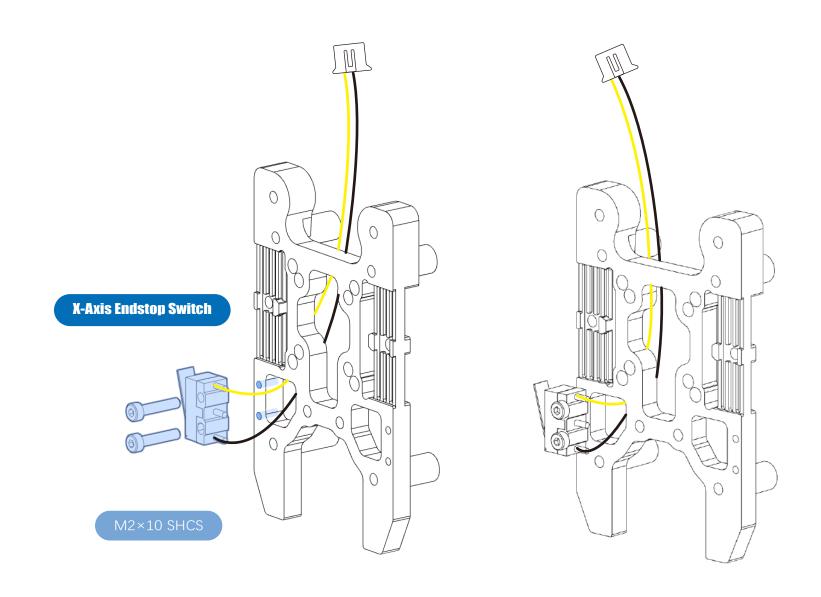


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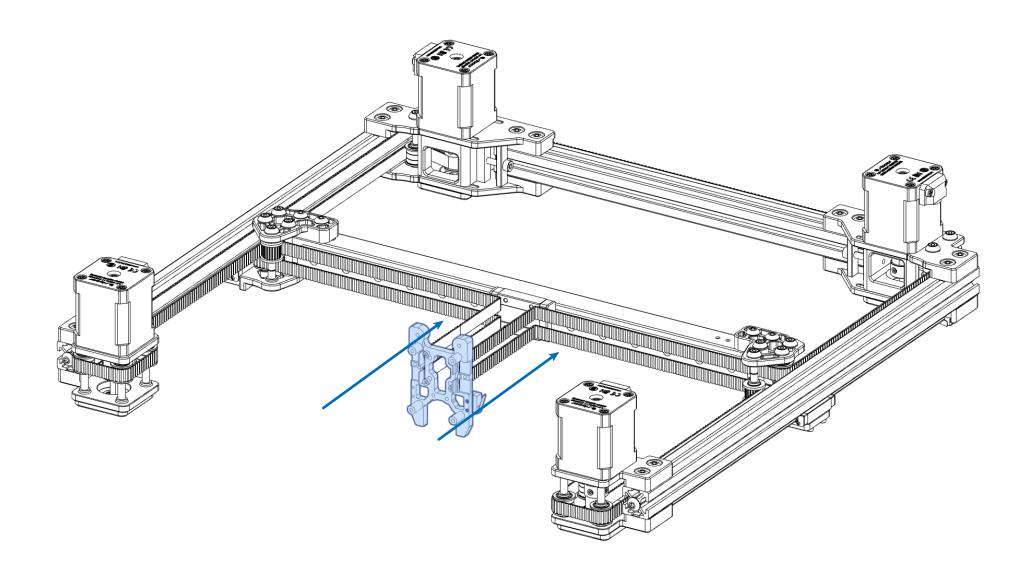


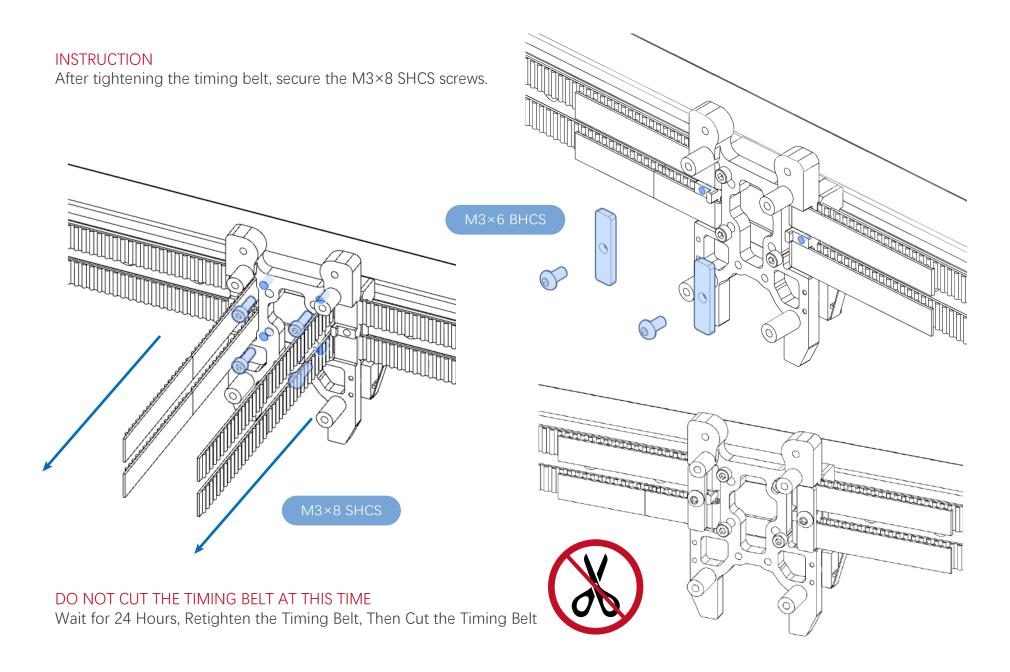
BELTS

WWW.SIBOOR.COM

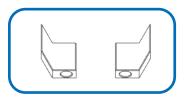






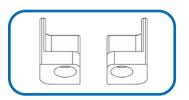


Before sitting down for a cup of coffee, check what's left in the CNC KIT to prevent it from disappearing as scrap.



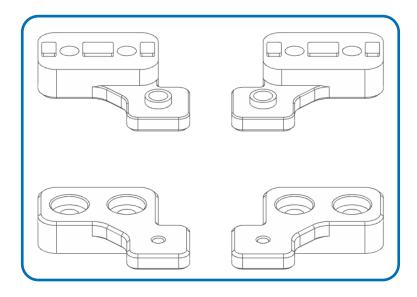
UHF EXTENSION BLOCK

This is the X-carriage extension block, an essential component required when using the Rapido V2.0 hotend.



PEI PRINT BED LOCATOR

This is installed on the heated bed's aluminum plate and is used to position the PEI print bed.



FRONT IDLER BRACKET FOR 2WD

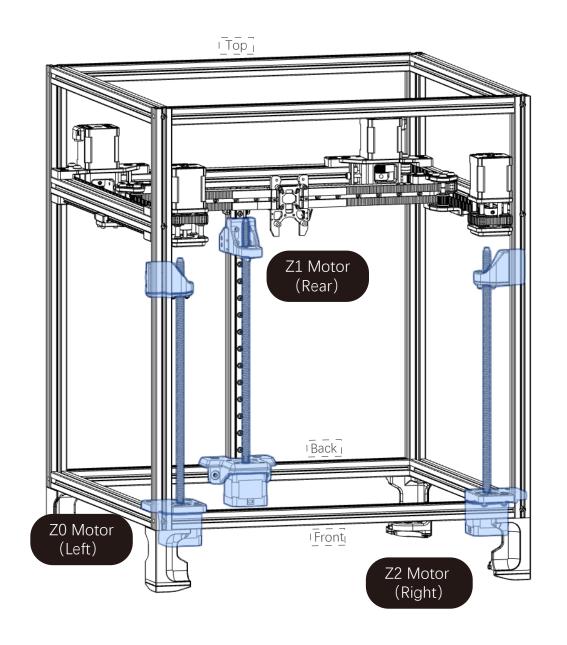
This is the front idler bracket for the 2WD system.

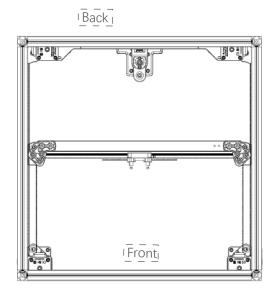
These parts aren't used when building AWD motion system

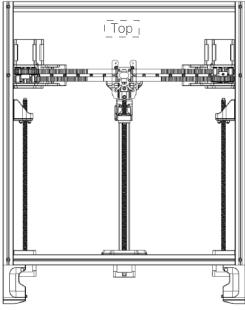
TAKE A BREAK

Stop and listen to a song, have a cup of coffee. Alternatively, organize the remaining parts and tidy up your workspace. Then start fresh.



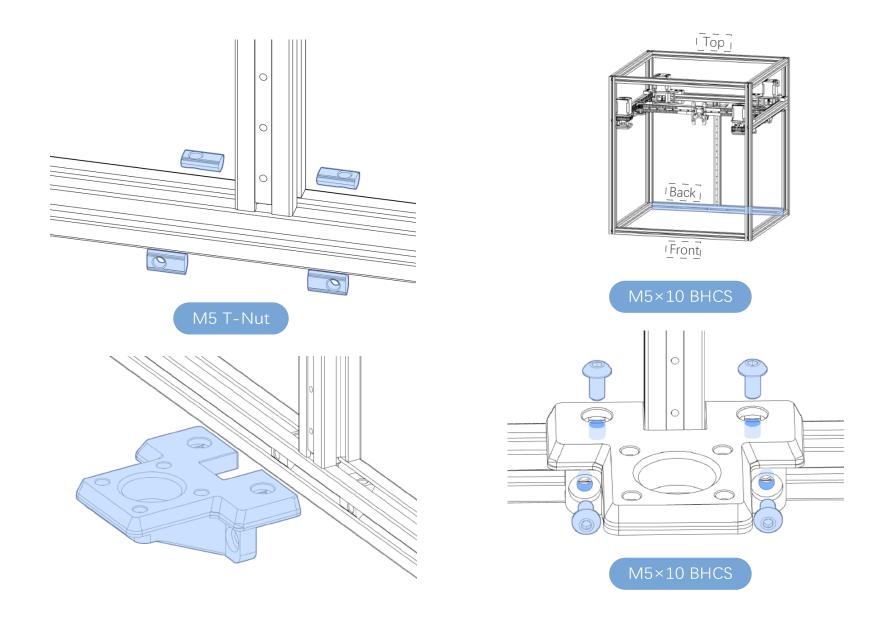


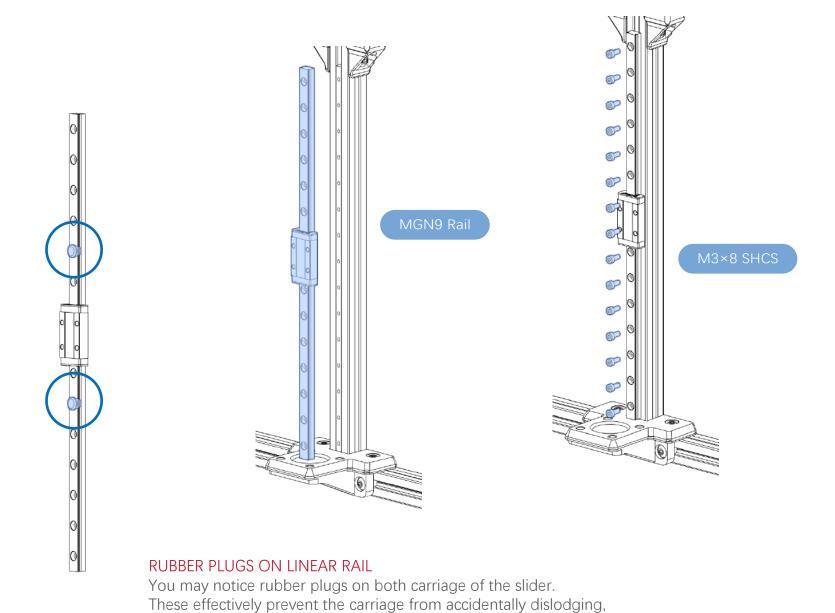




Z AXIS

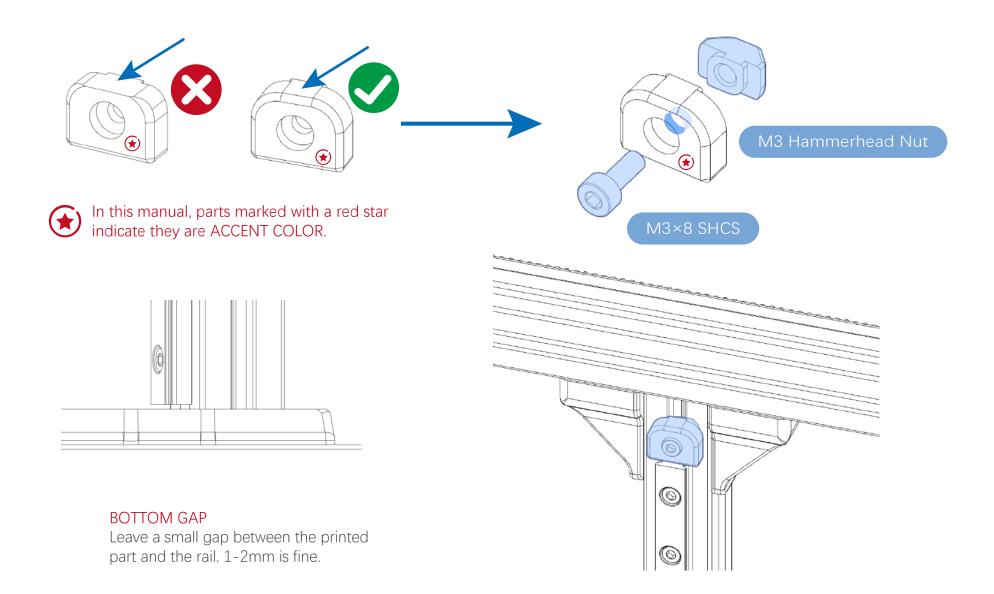
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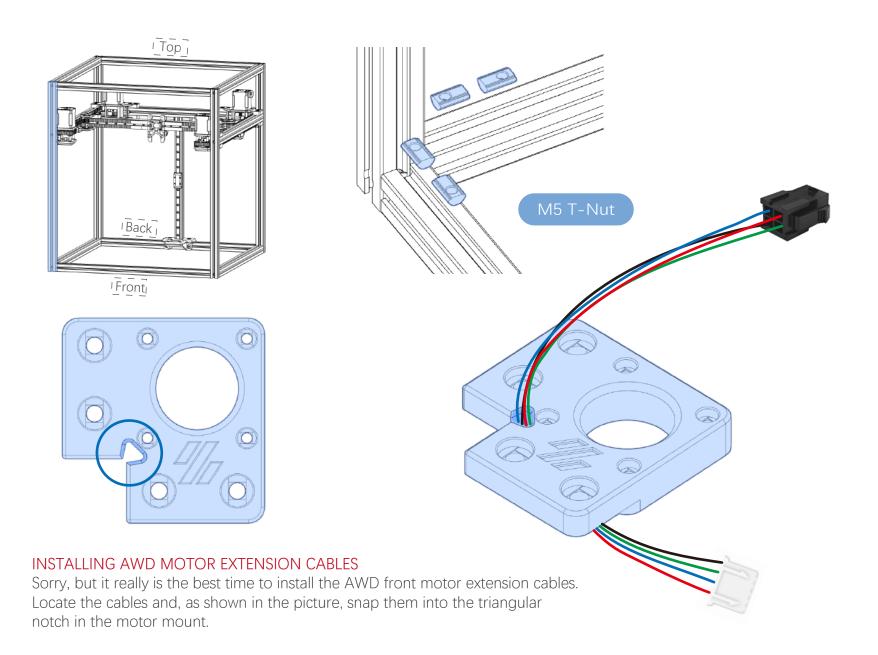




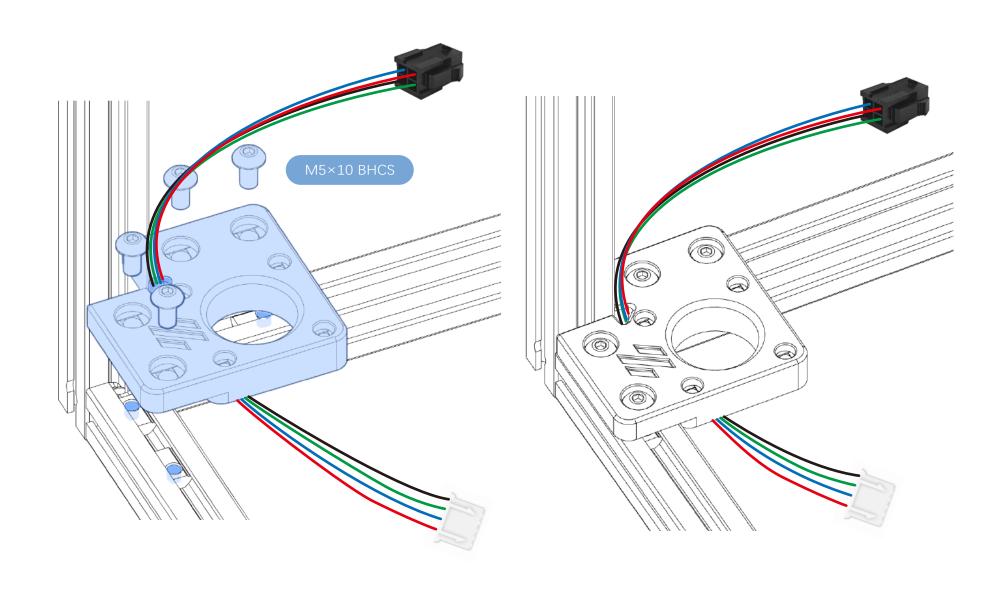
so do not attempt to remove them before installing the screws.

66

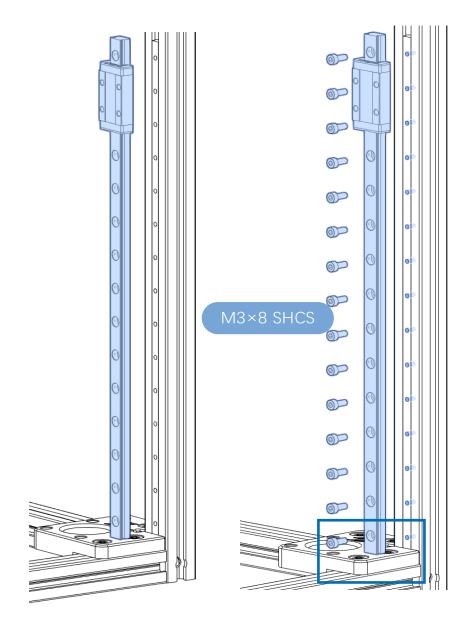


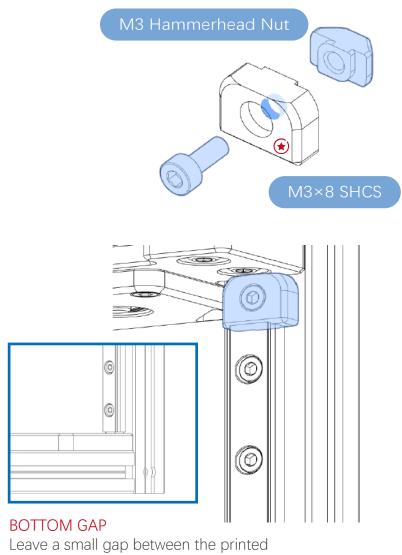


Z AXIS

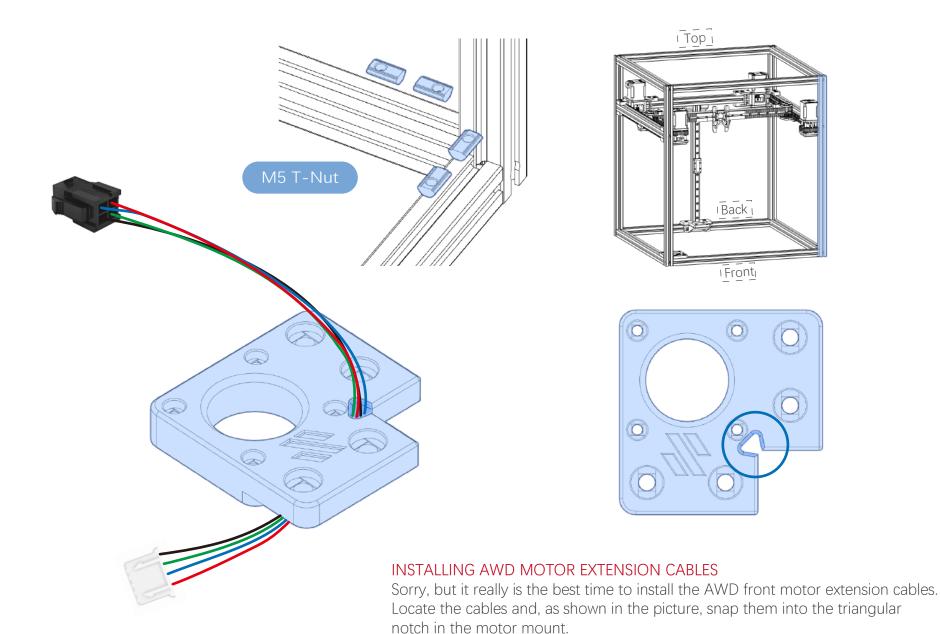


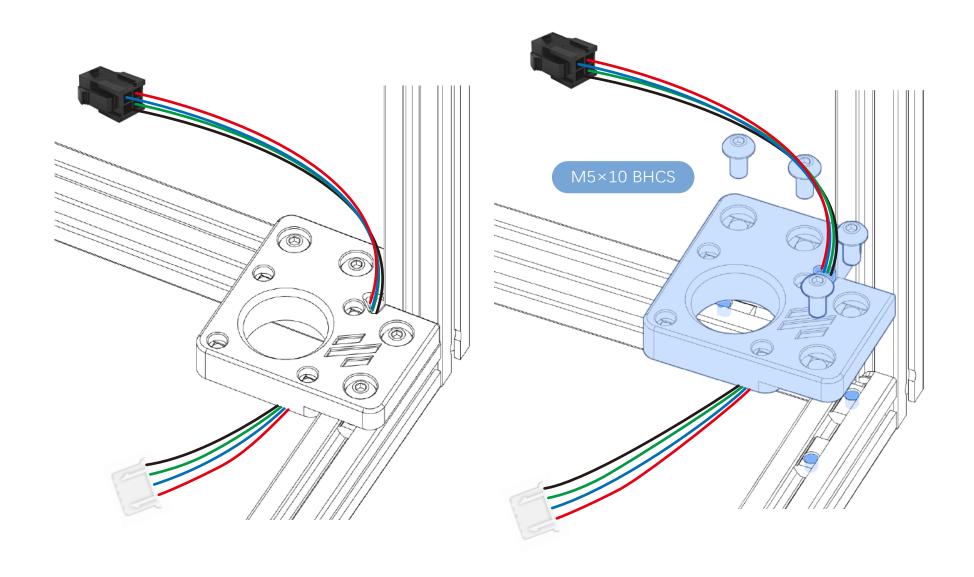
Z AXIS

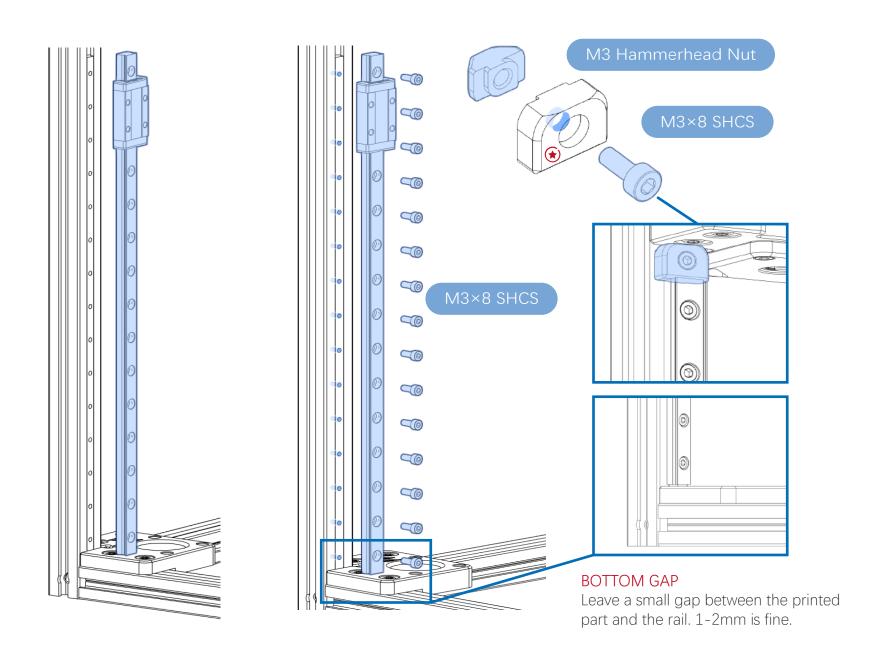




part and the rail. 1-2mm is fine.







DON'T FULLY TIGHTEN For best results do not tighten fully.

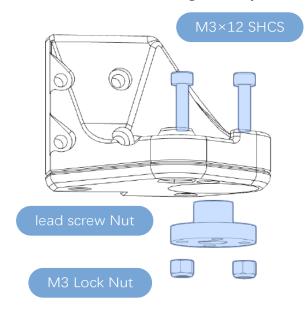


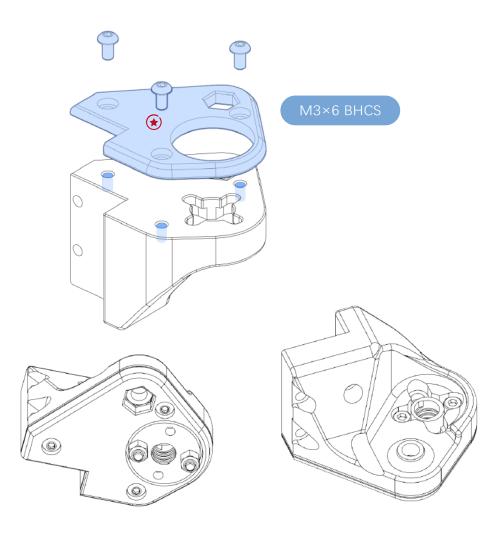
LEAD SCREW NUT?

Where is the lead screw nut? It is installed on the lead screw motor and can be removed by unscrewing it from the lead screw.

DON'T FULLY TIGHTEN

For best results do not tighten fully.

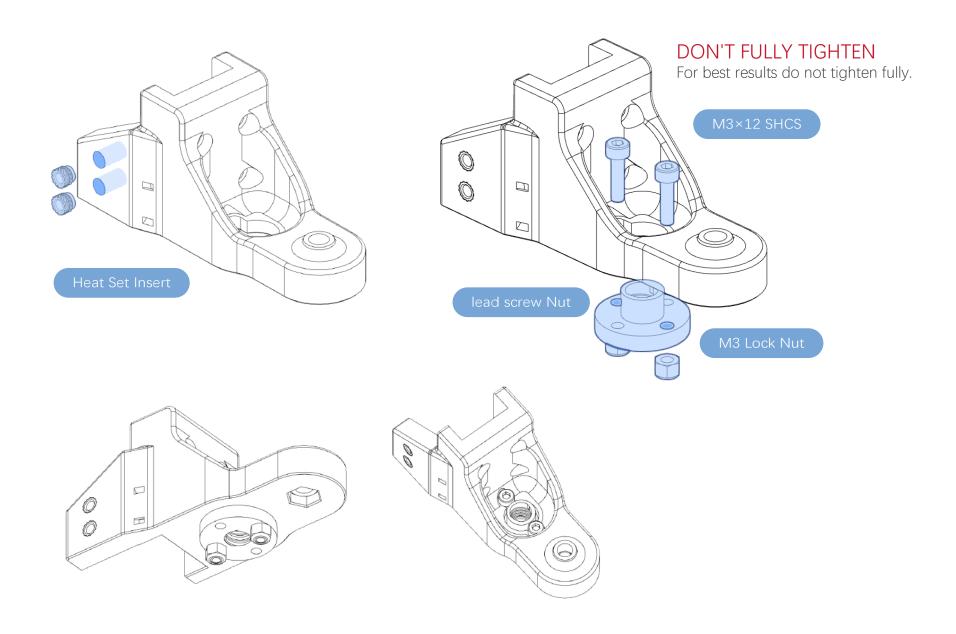




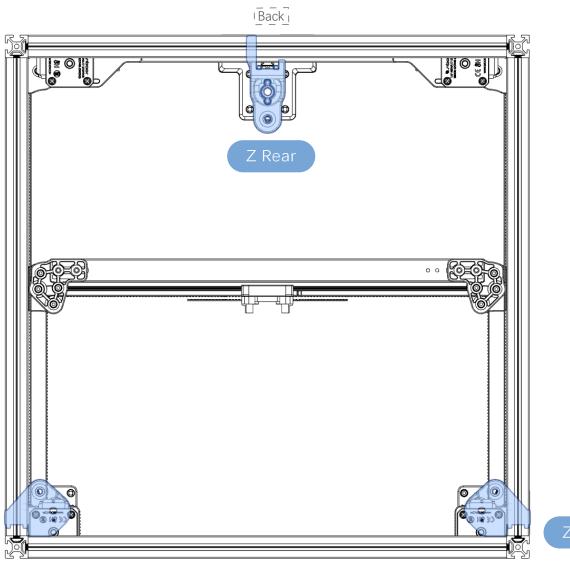


LEAD SCREW NUT?

Where is the lead screw nut? It is installed on the lead screw motor and can be removed by unscrewing it from the lead screw.



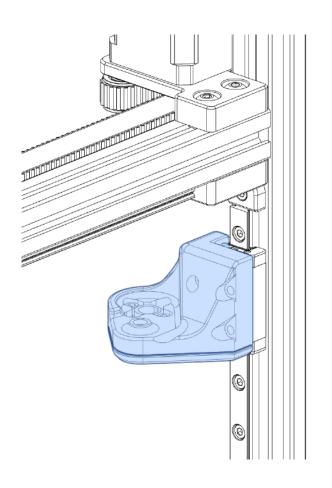
OVERVEW

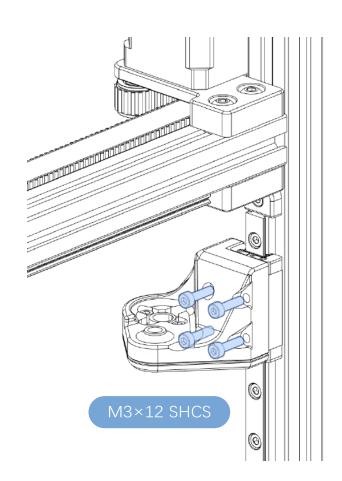


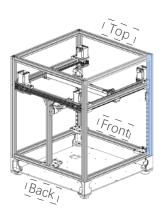
Z Left

Z Right

Front

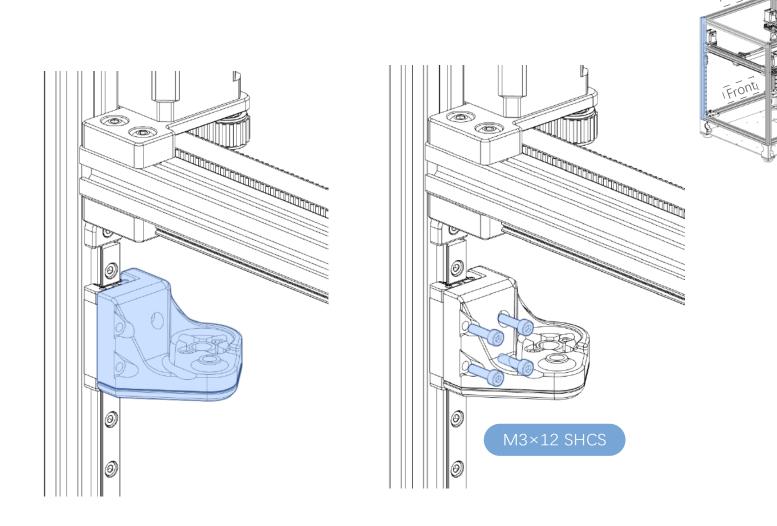






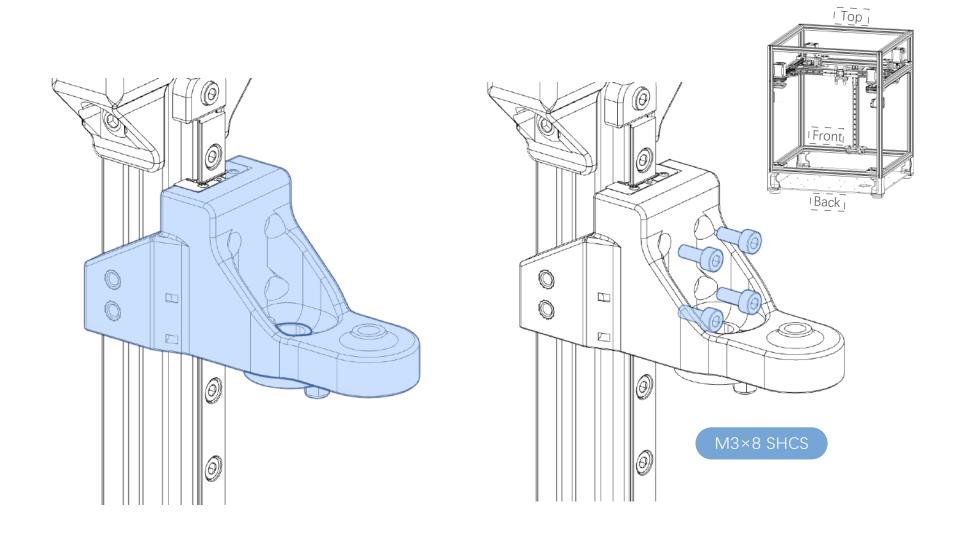
RIGHT Z JOINT

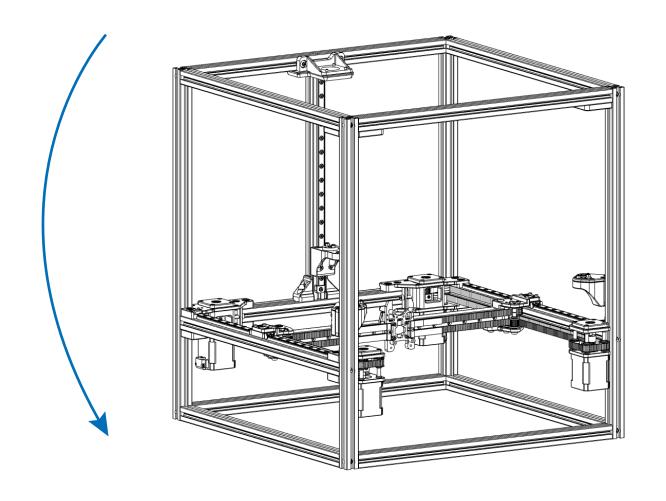
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REAR Z JOINT

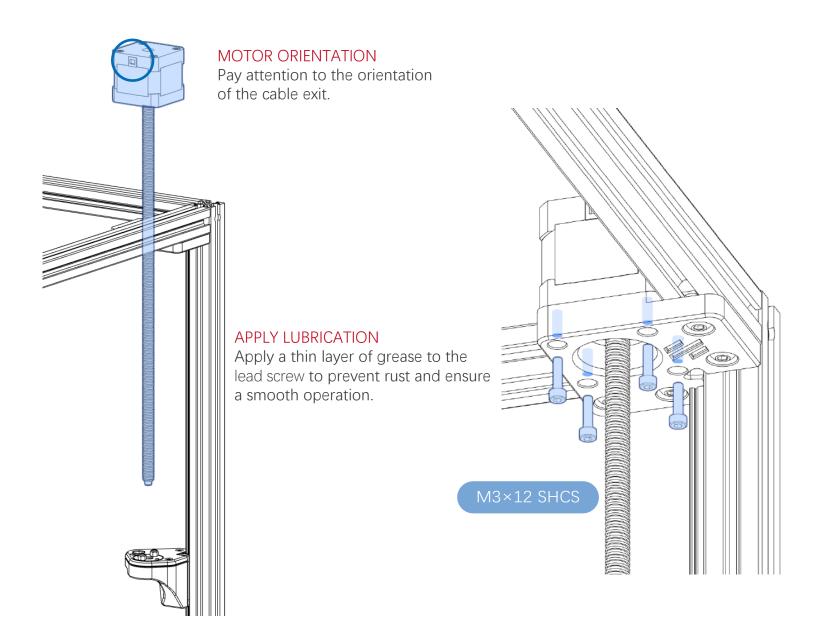
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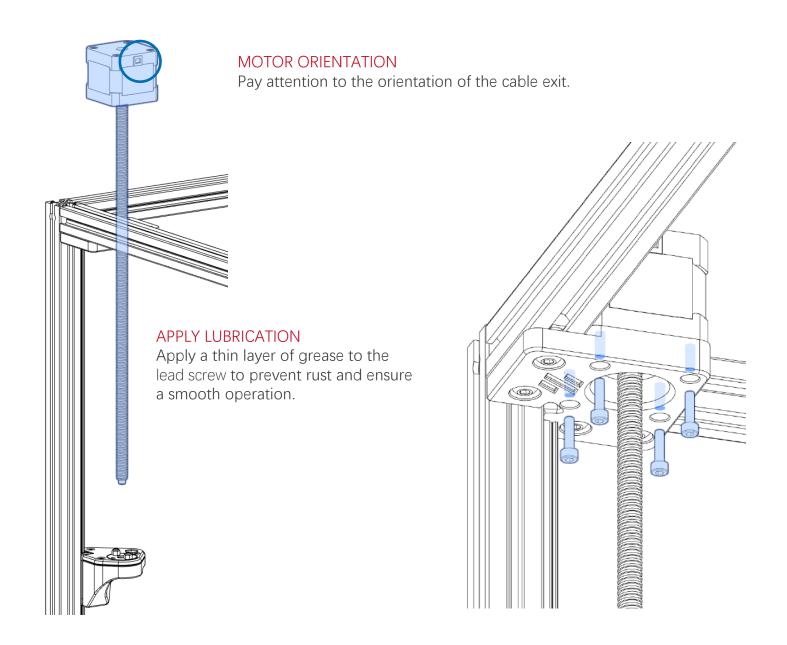


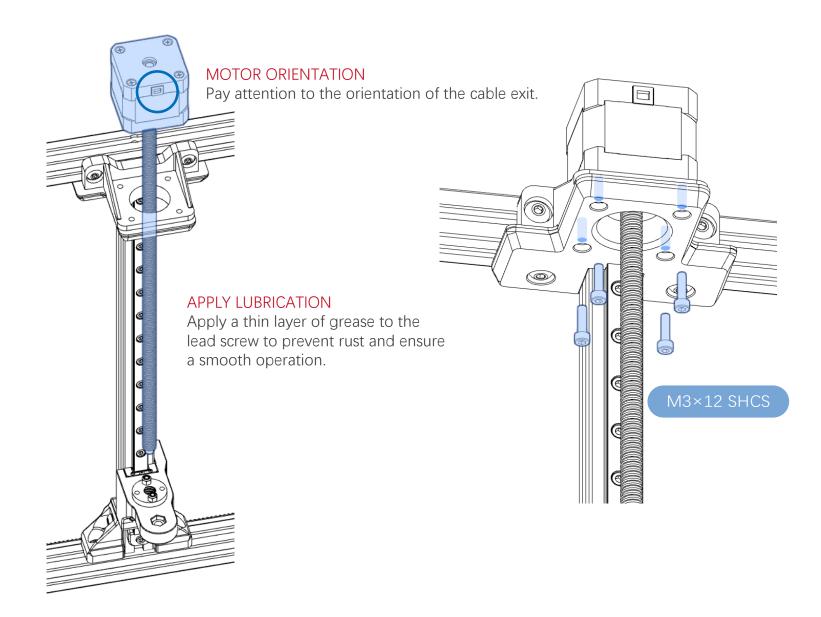
FLIP UPSIDE DOWN

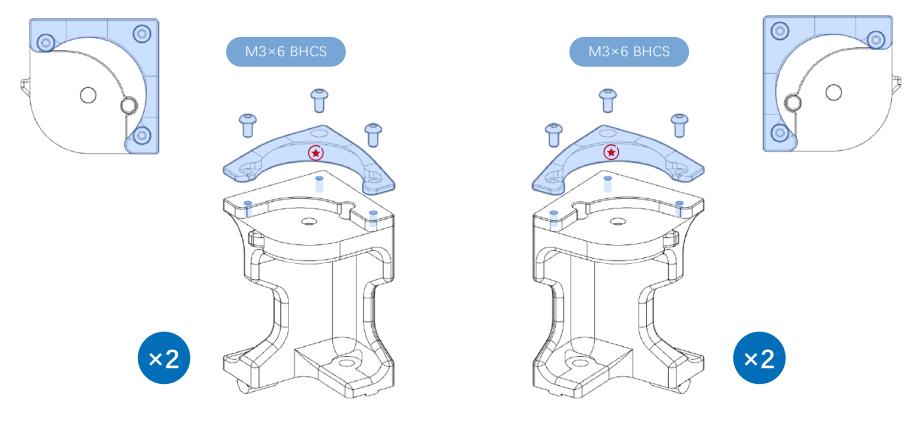
Turn the printer upside down for the next assembly steps.



RIGHT Z MOTOR



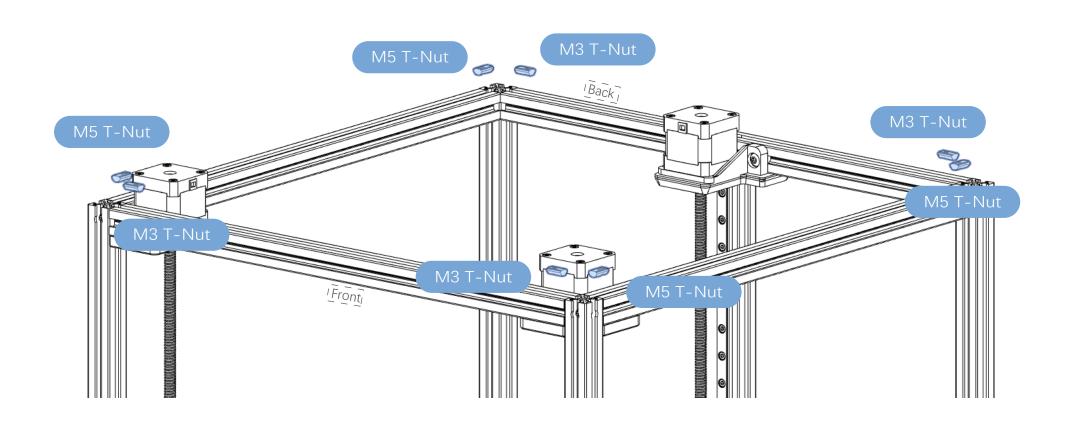




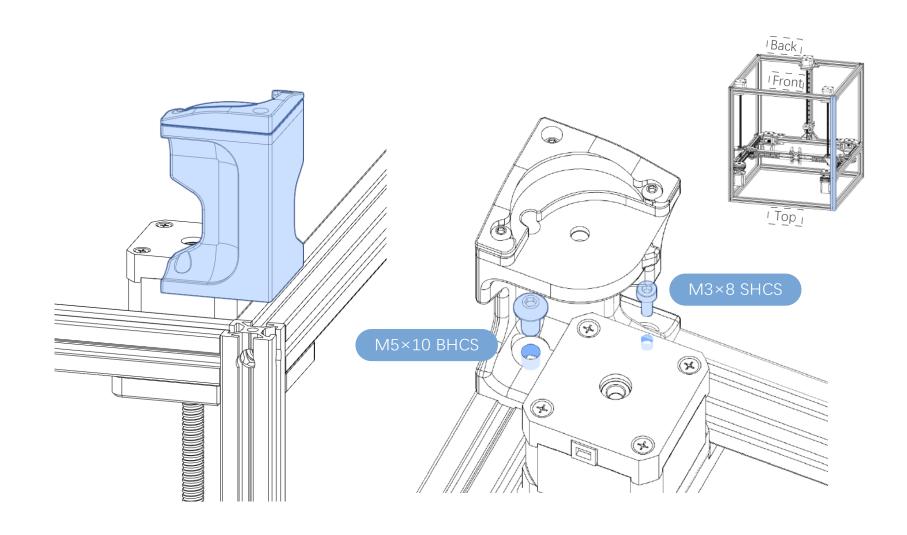
ASSEMBLE FOUR FEET

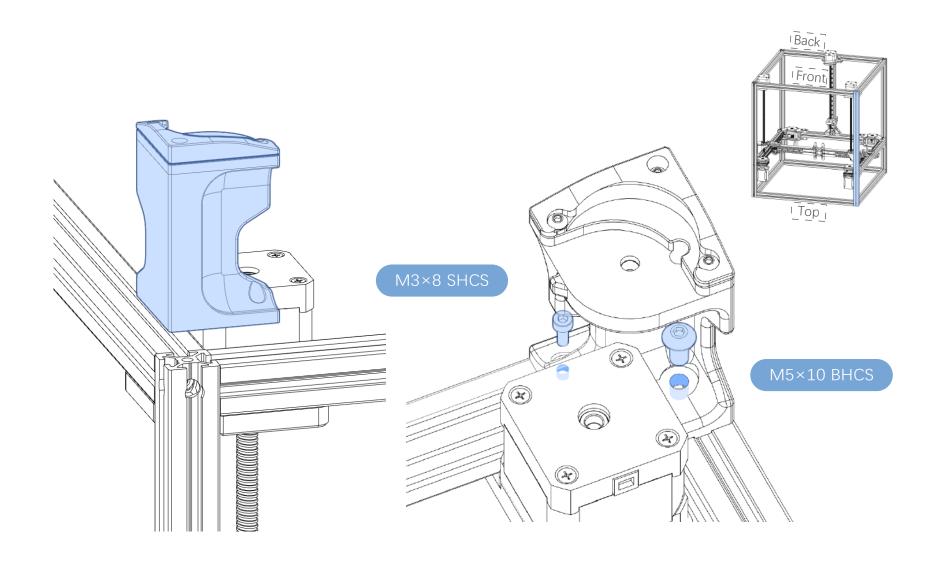
Repeat the instructions and assemble all four feet.



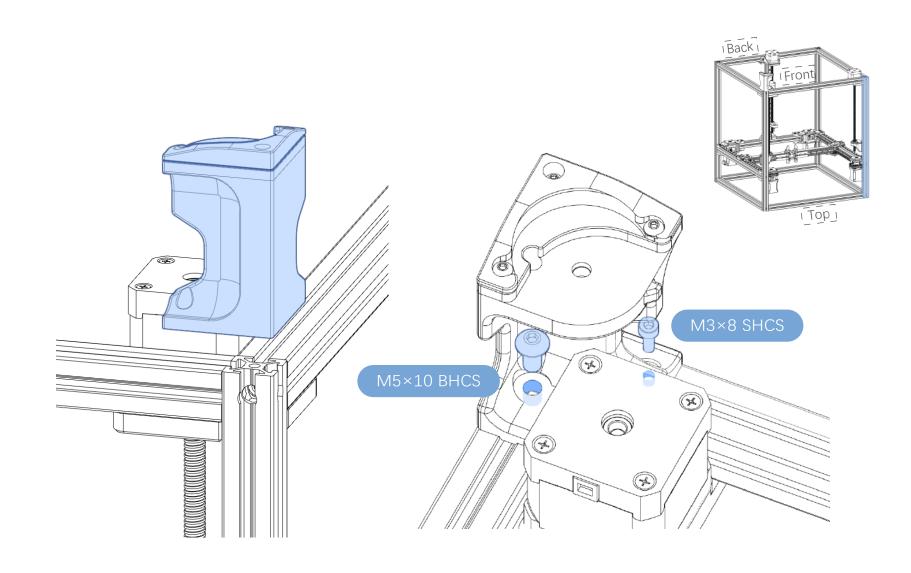


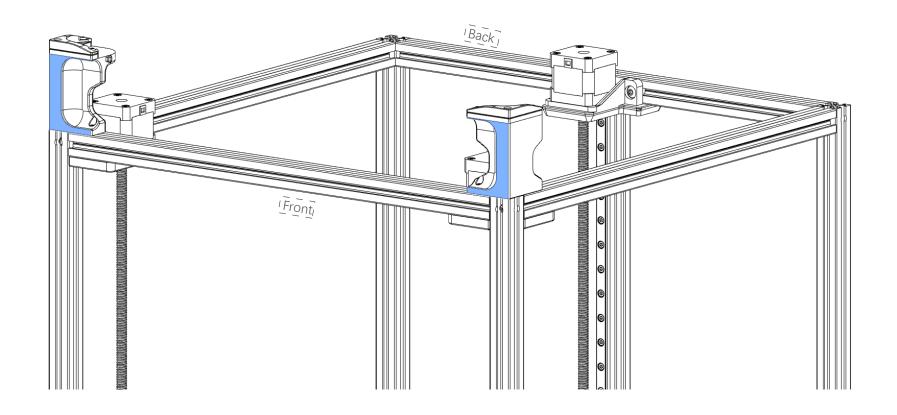








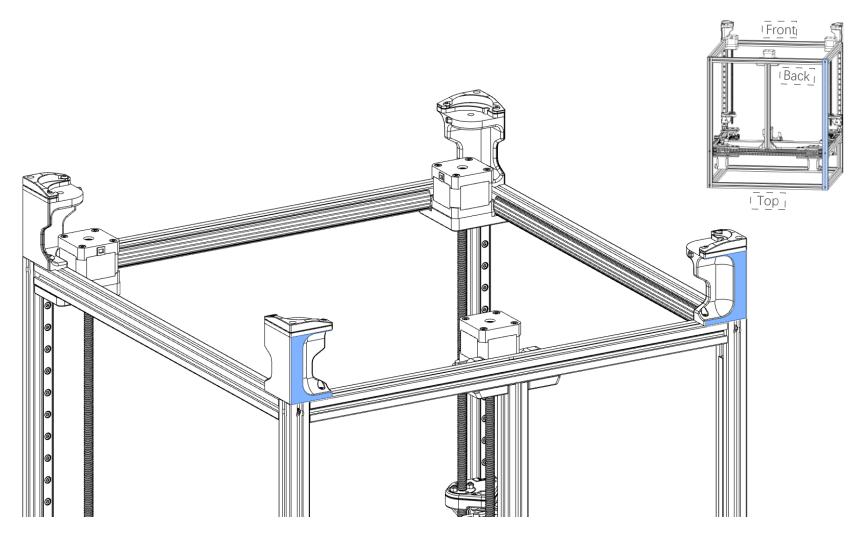




MIND THE PART ORIENTATION

The faces highlighted above are towards the front and rear of the printer

FEET



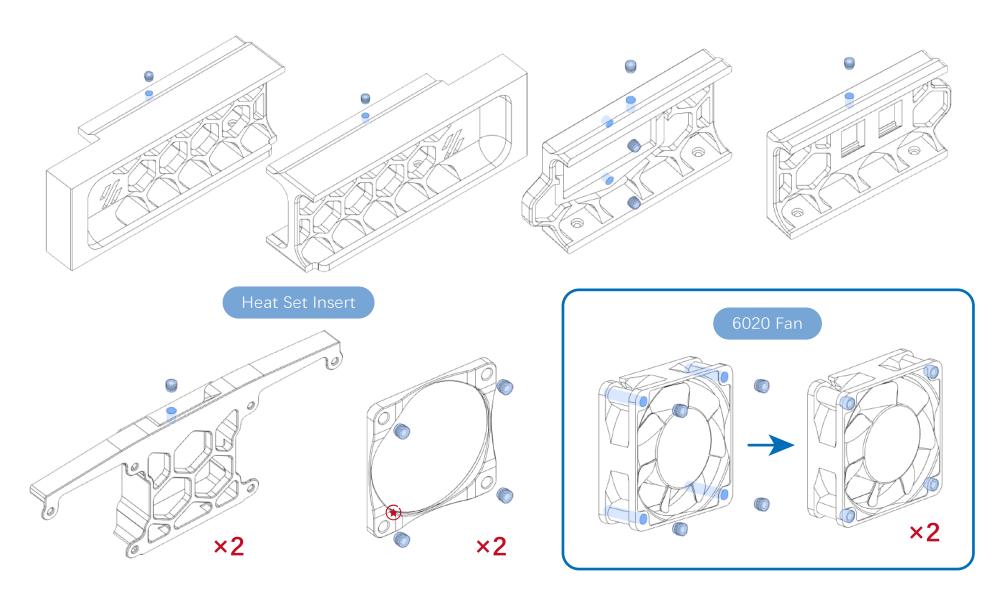
MIND THE PART ORIENTATION

The faces highlighted above are towards the front and rear of the printer

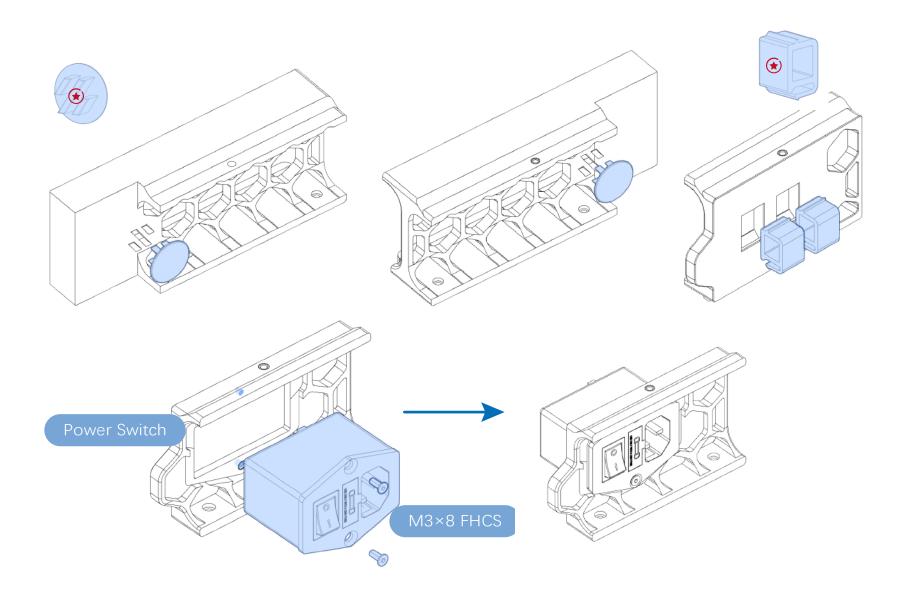


SKIRTS

Report, Commander, we have discovered a batch of ABS printed parts that require heat set inserts...

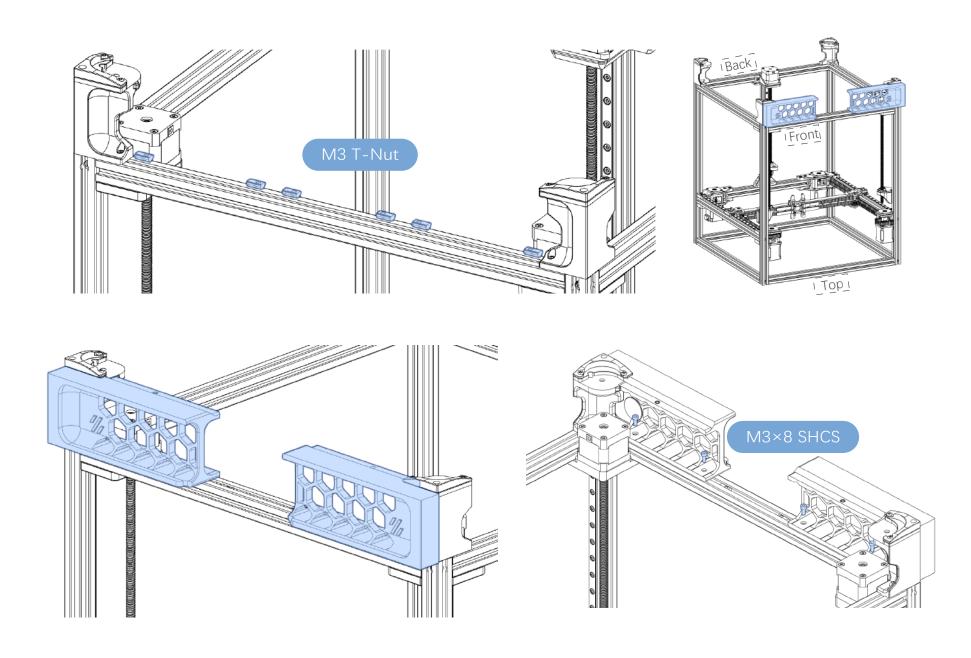


SKIRTS



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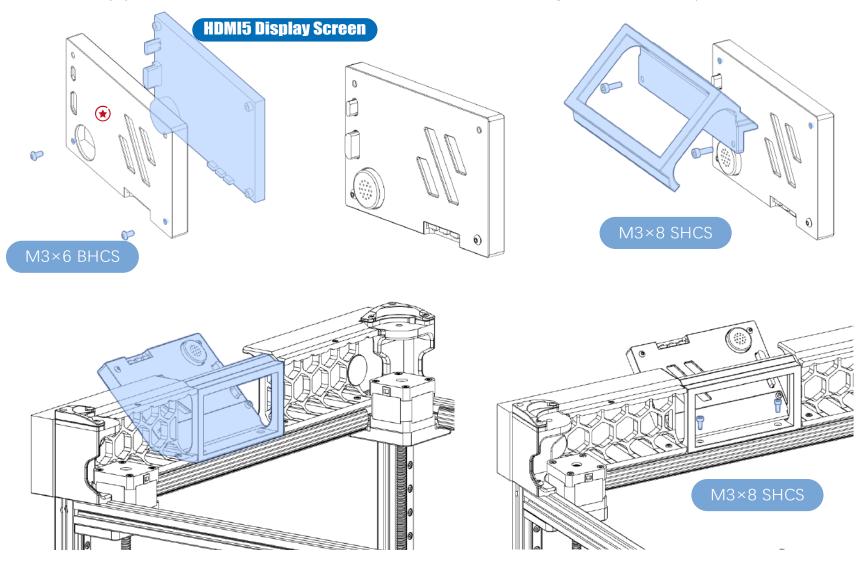
SKIRTS



Important Installation Note

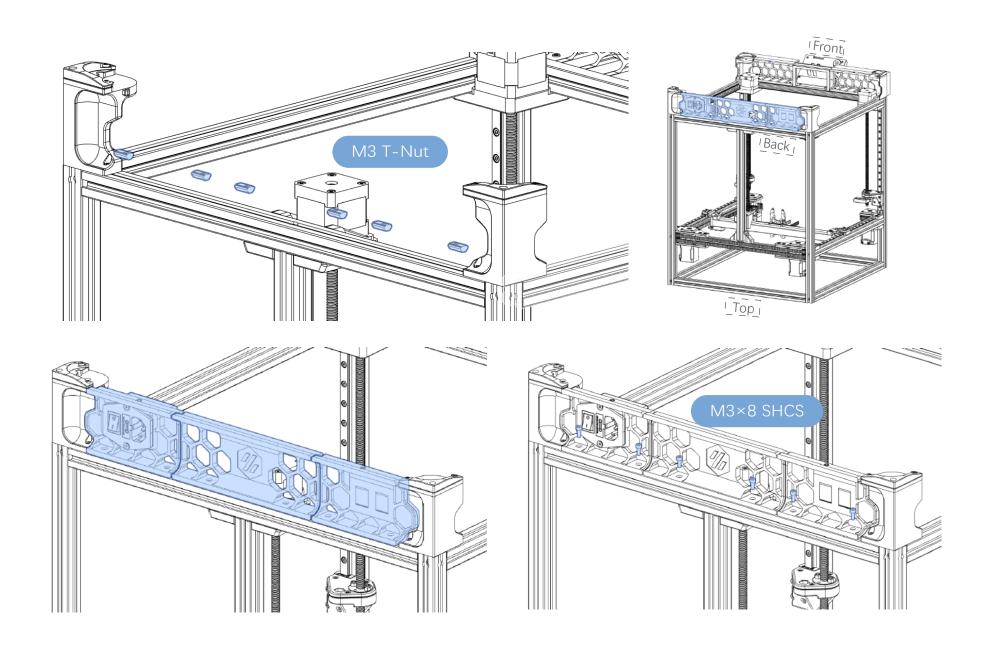
After installing the touch screen bracket, avoid turning the printer with its front facing down towards the desk, as this may damage both the touch screen and the bracket.

Alternatively, you can install the touch screen on the bracket without securing the bracket to the printer.

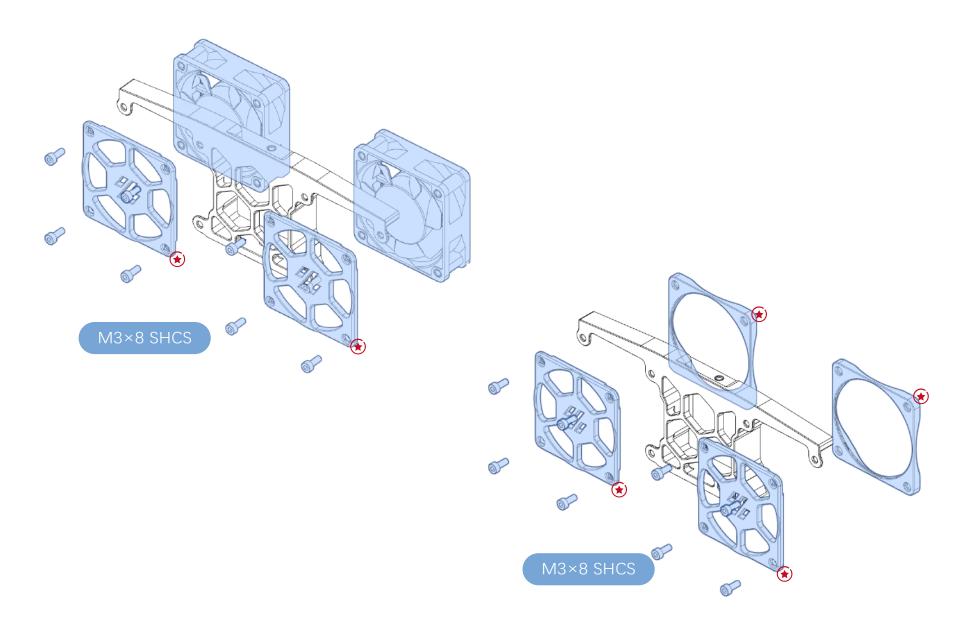


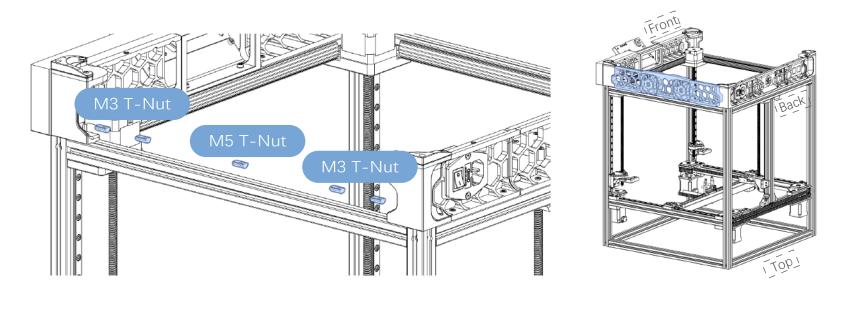
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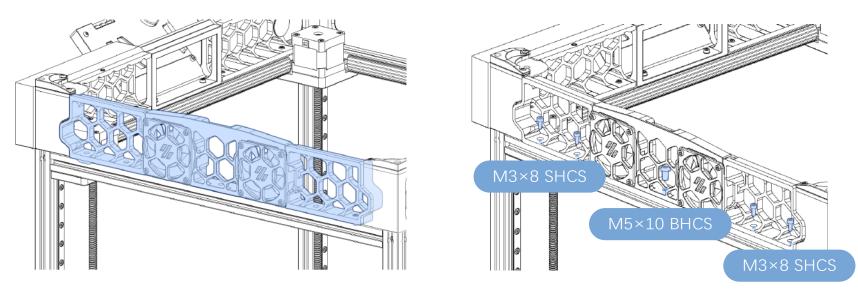
SKIRTS

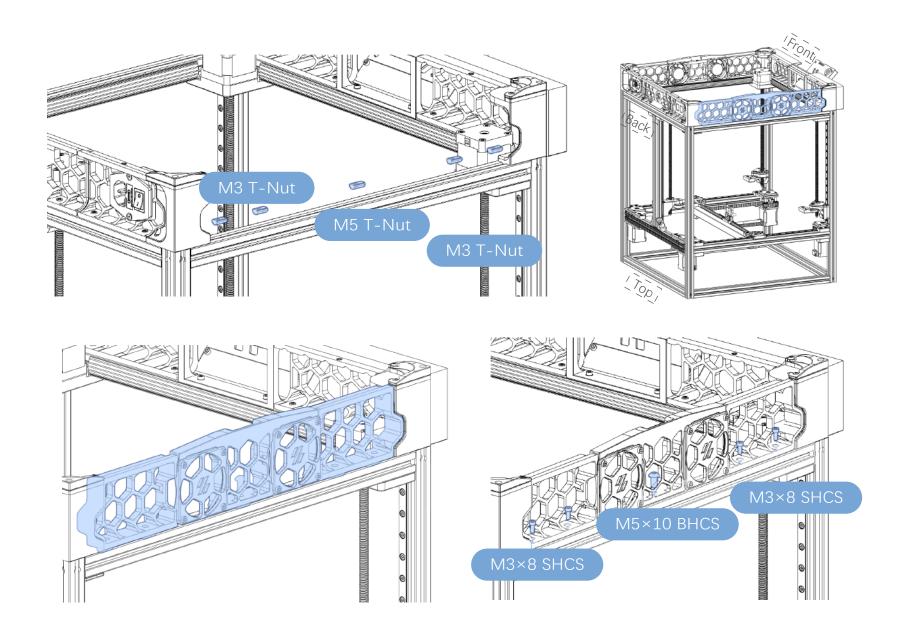


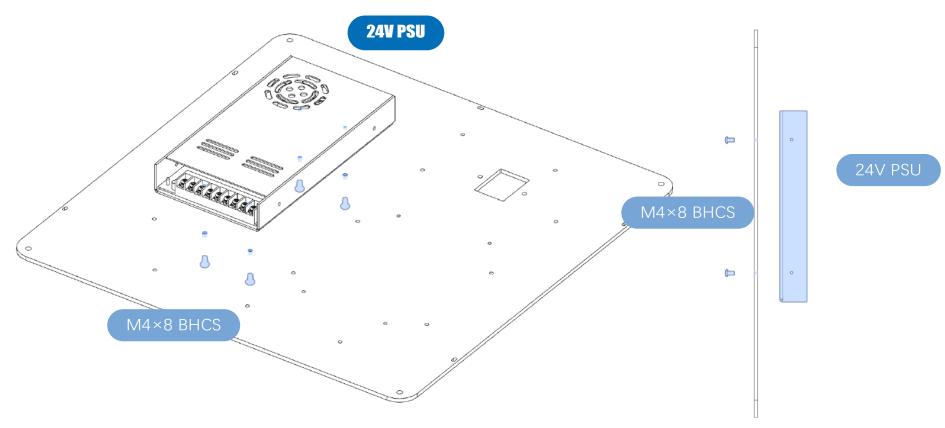
SKIRTS





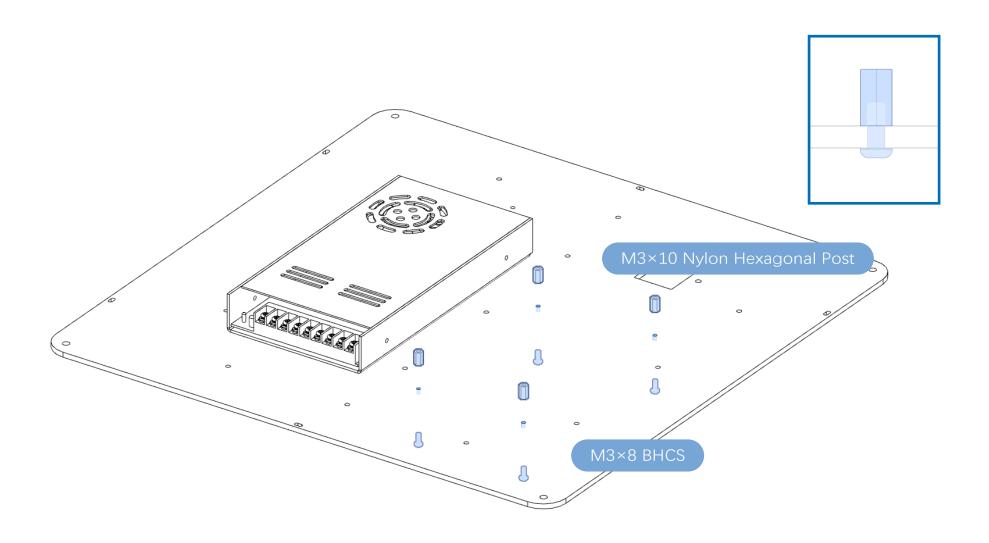




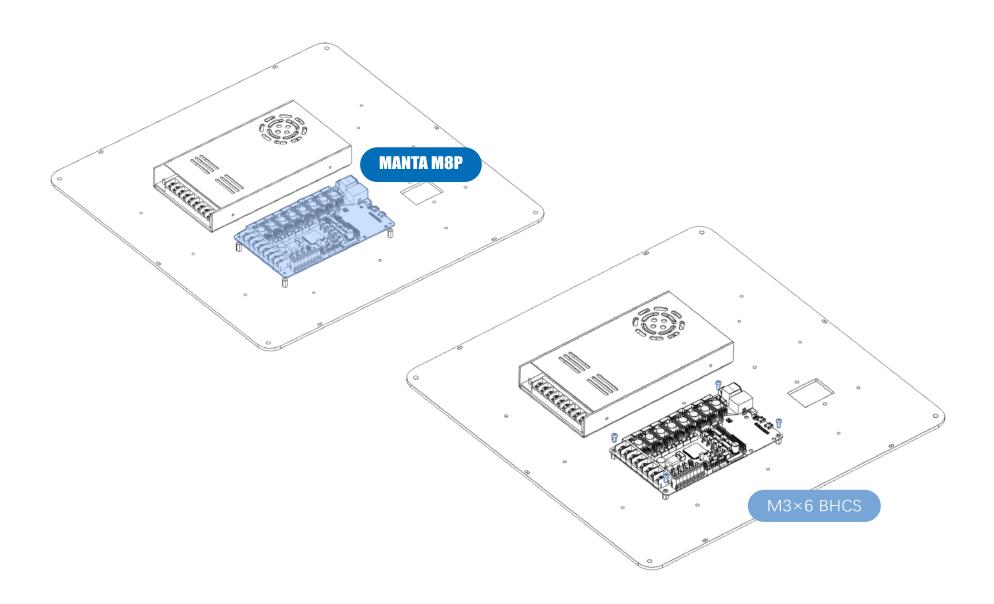


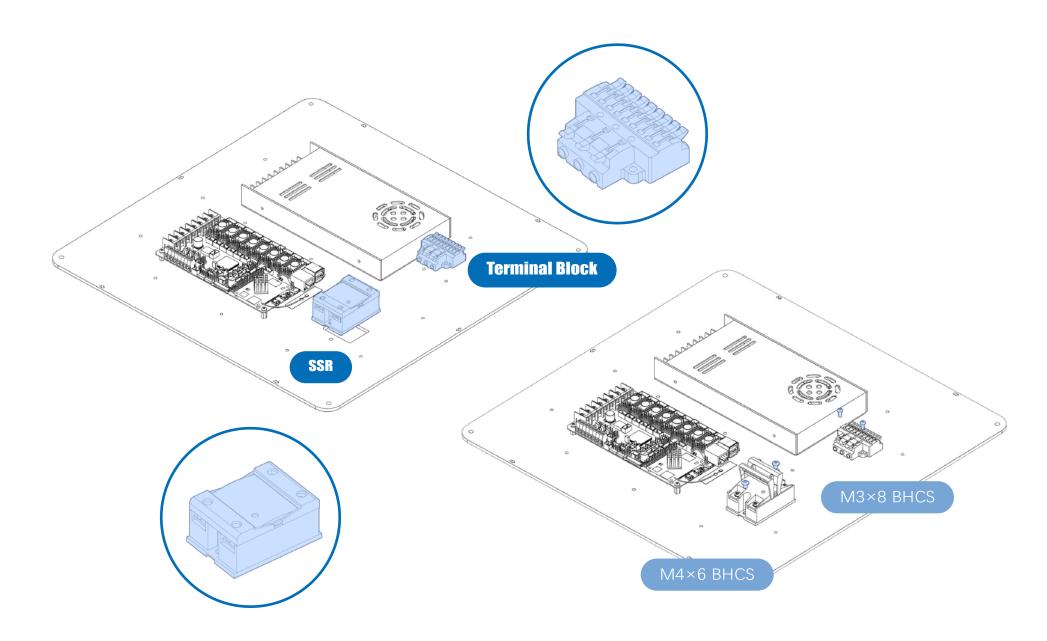
Securing the 24V PSU

Use M4×8 BHCS screws to secure the 24V PSU to the black base plate.

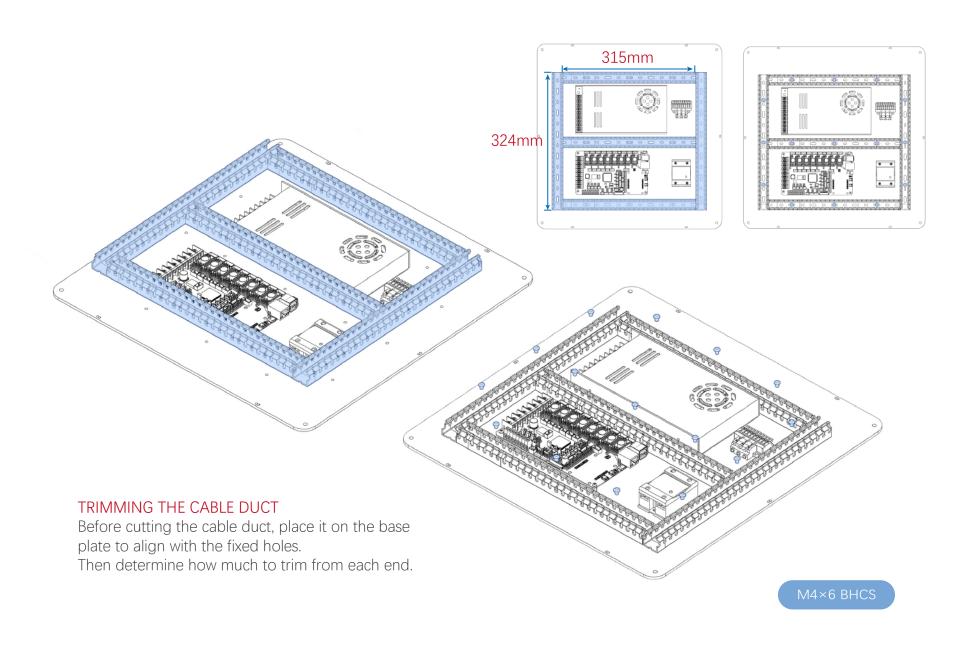


BASE PLATE



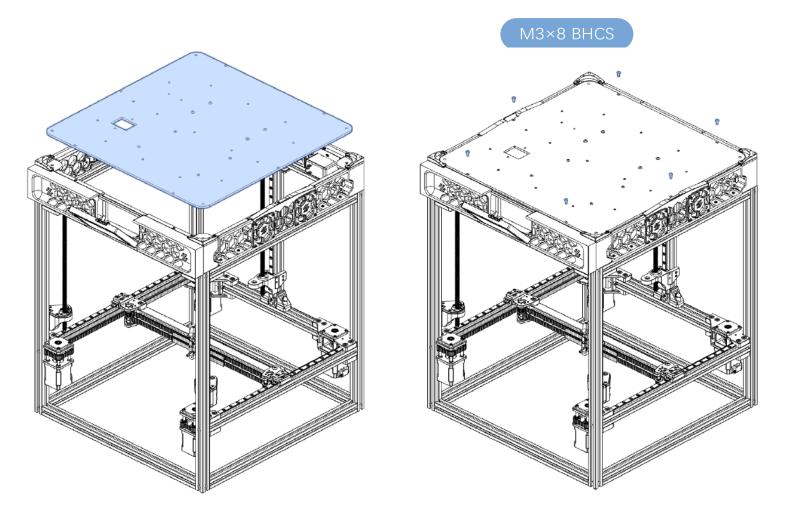


BASE PLATE

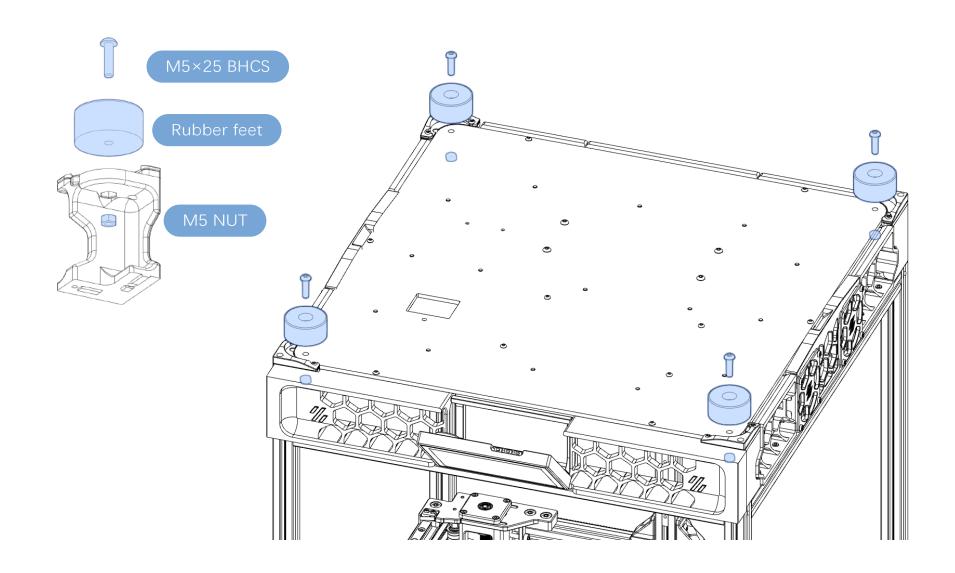


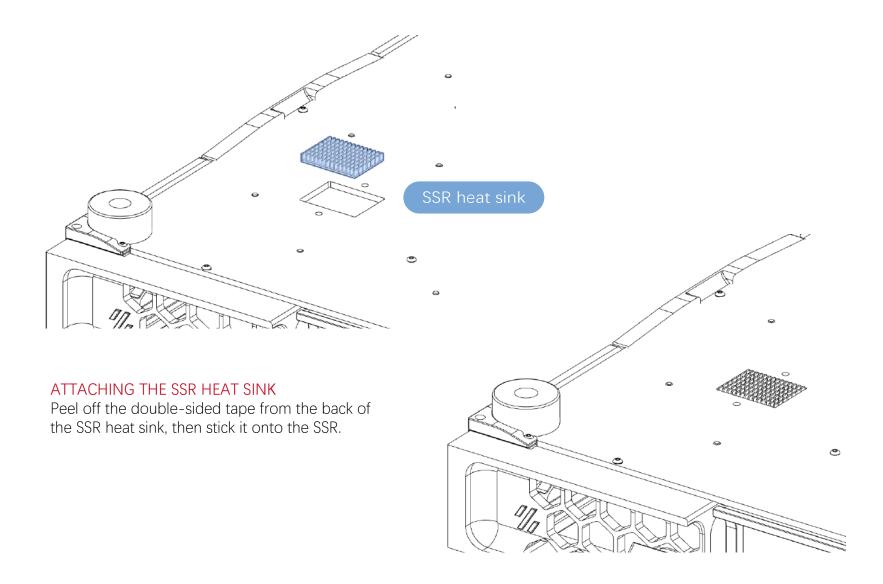
PARTIAL WIRING BEFORE INSTALLING THE BASE PLATE

Before installing the base plate, you can start some of the wiring first. The benefit is that you won't be confined to working within the space of the printer, allowing you to work easily on a desk and save a lot of time. If needed, please refer to pages 187-192.

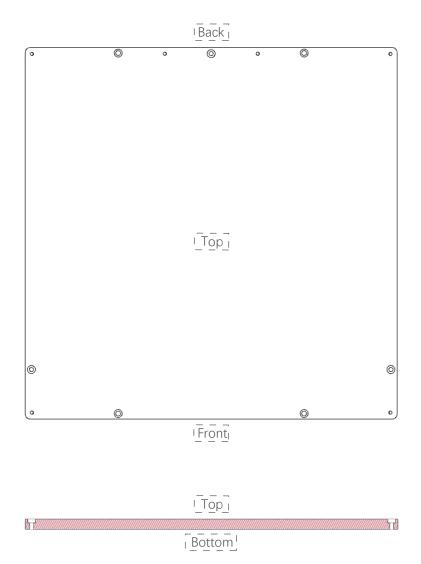


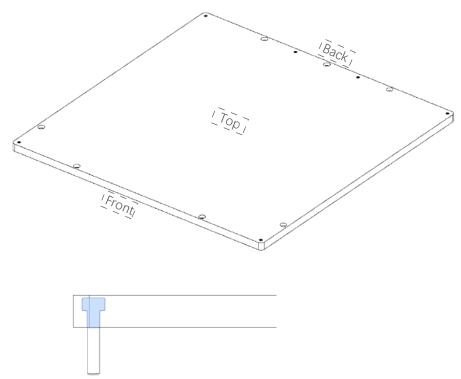
BASE PLATE







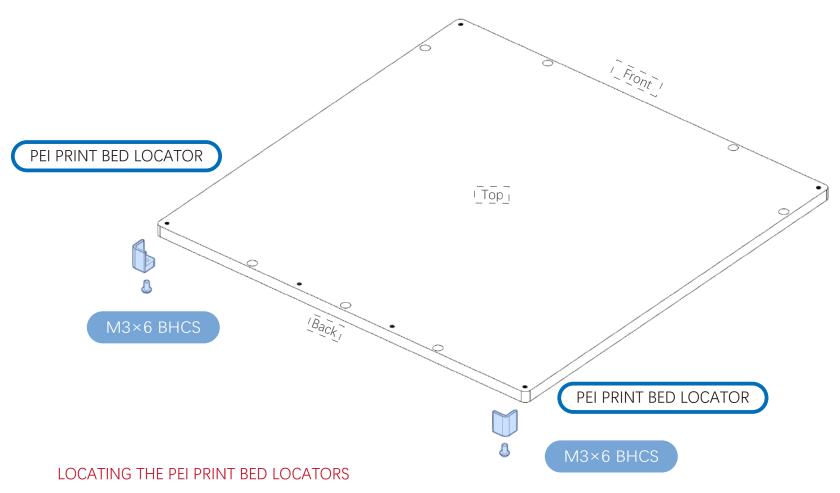




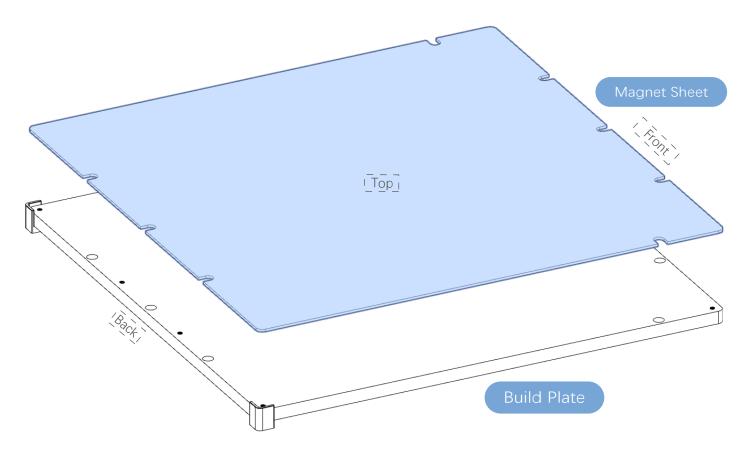
WHICH SIDE IS WHICH?

The top of the plate has mounting holes with bores that allow boltheads to sit flush/below the surface.

The plate has additional tapped holes to secure the PE connection and a thermal fuse, those are on the back side of the plate.



The PEI Print Bed Locators are in the CNC AWD box, as mentioned on page 72.





MAGNET APPLICATION

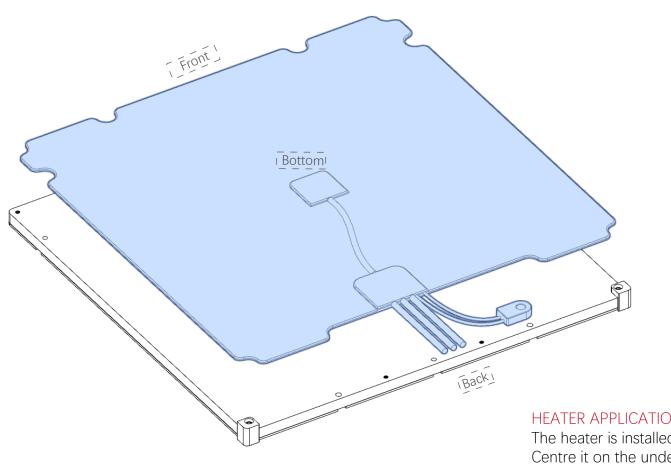
Clean the plate with isopropyl alcohol or similar cleaner prior to applying the magnet.

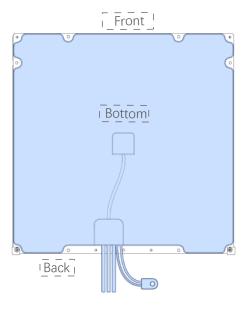
Use the edge of a plastic object or a small roller to firmly press the magnet on the plate to get a good bond. If you have never done this before we recommend you watch the linked guide.



CHECKING SPECIFICATIONS BEFORE INSTALLING THE BED HEATER

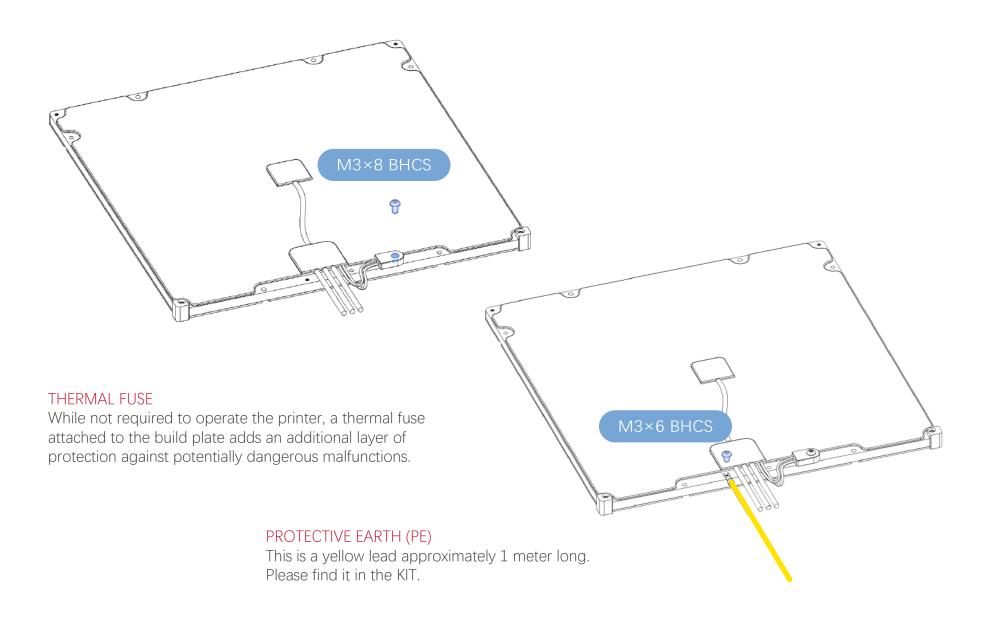
Before installing the Bed Heater, be sure to check the specification information on the surface silkscreen to ensure the voltage matches the power supply voltage in your area!

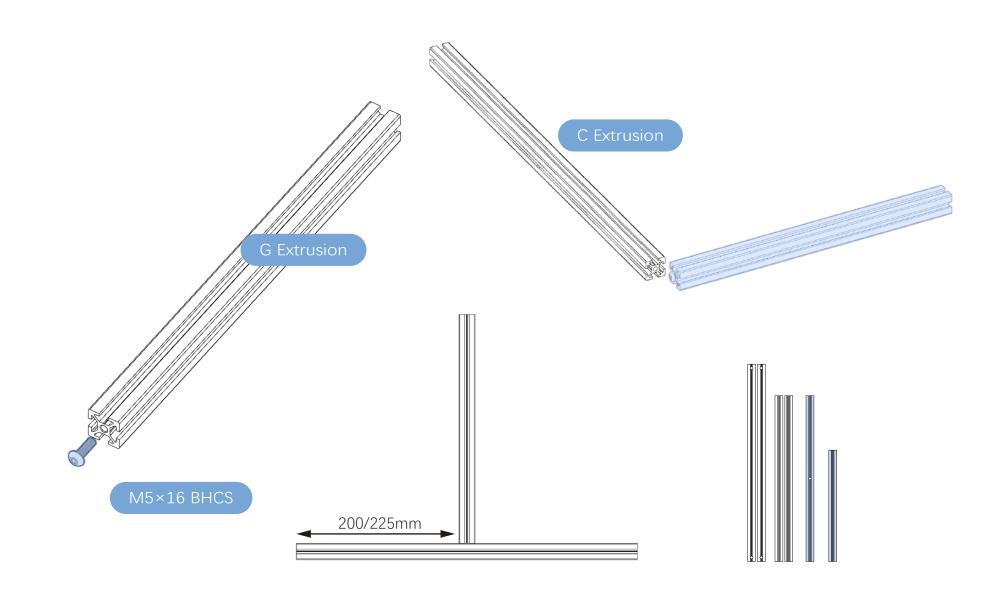


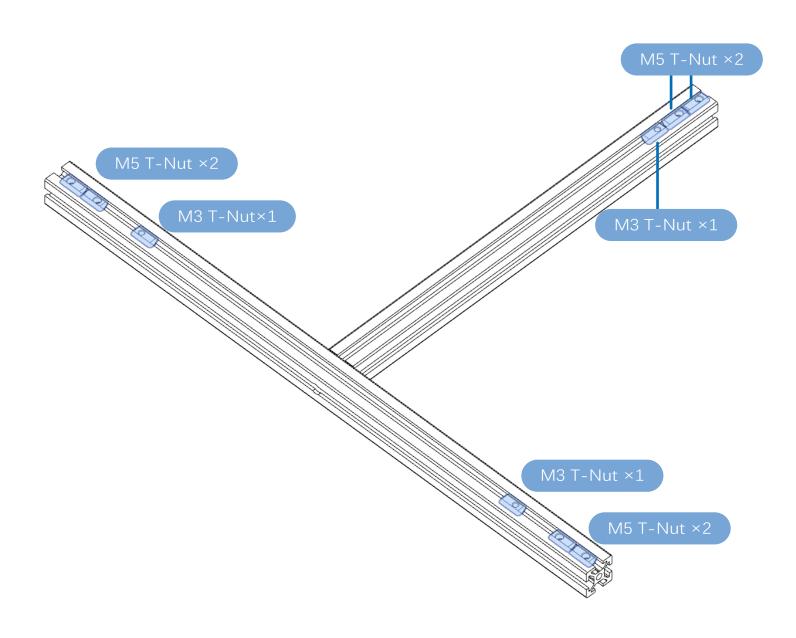


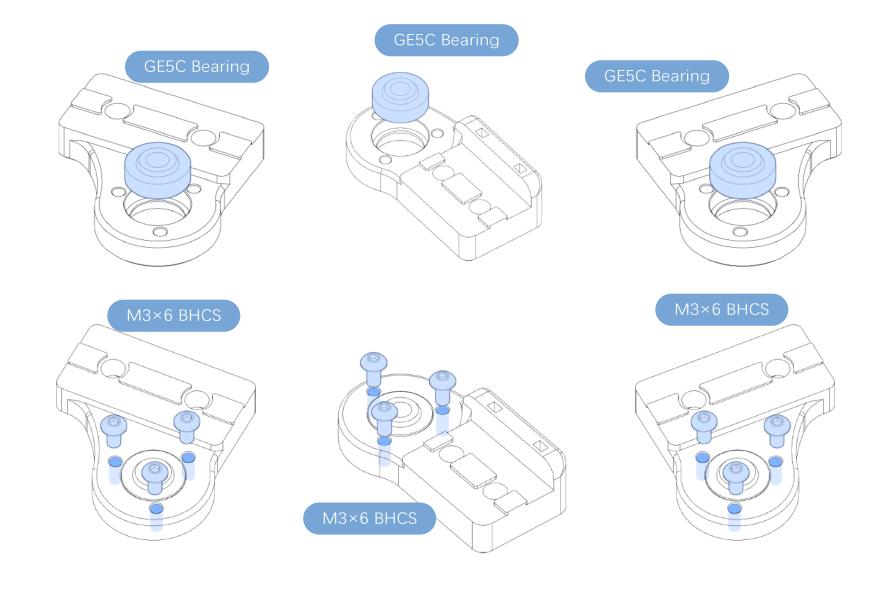
HEATER APPLICATION

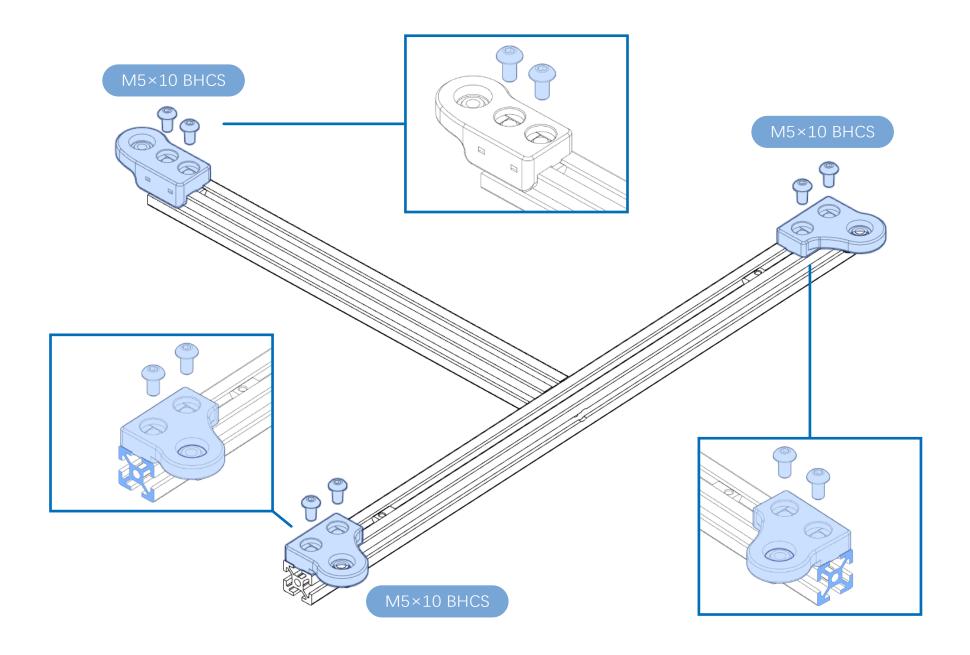
The heater is installed in the same fashion as the magnet. Centre it on the underside of the build plate and make sure to frmly press it on the build plate.



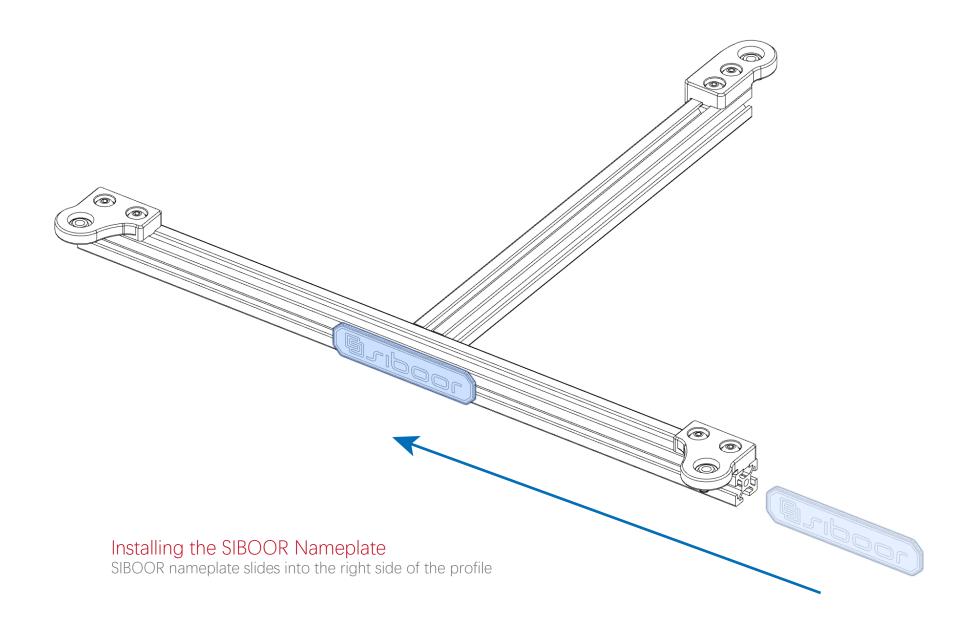


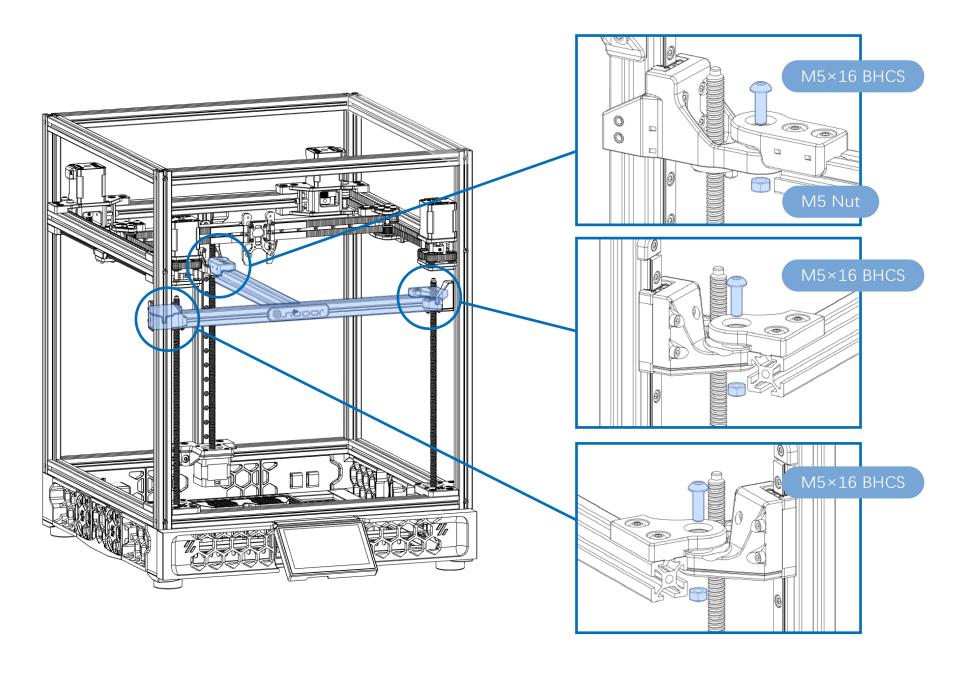


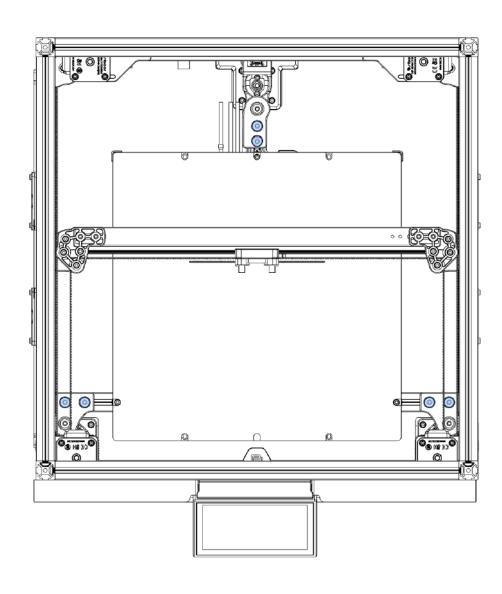




PRINTER BED WWW.SIBOOR.COM

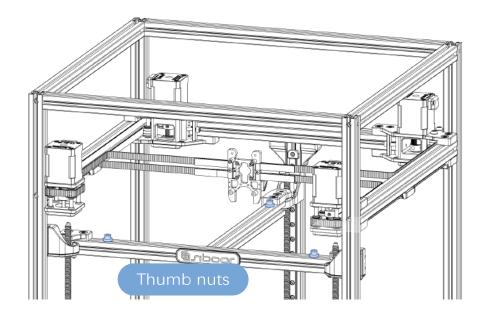


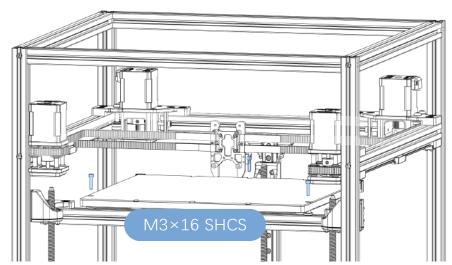


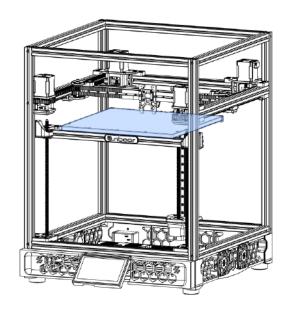


LOOSEN AND RETIGHTEN

Slightly loosen the bolts that hold the bed frame to the printed parts and gently shake the bed frame before retightening them.







ALTERNATIVE EXPERIMENTAL SOLUTION

The KIT also provides an alternative approach for mounting the bed. Using insulation columns and PEEK M3×16 SHCS screws, temperature transfer from the bed to extrusions is reduced. This helps prevent thermal expansion from deforming the frame.

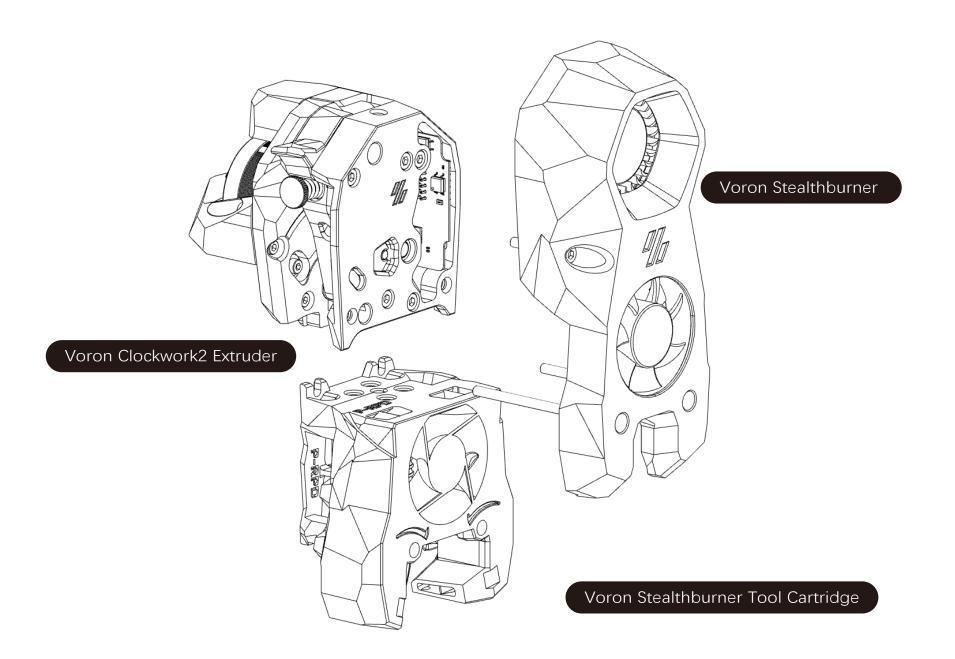
The way the bed is attached remains the same, but it's crucial to remember that PEEK screws can break. When installing, avoid using excessive force to prevent breaking the PEEK screws.

STEALTHBURNER WWW.SIBOOR.COM

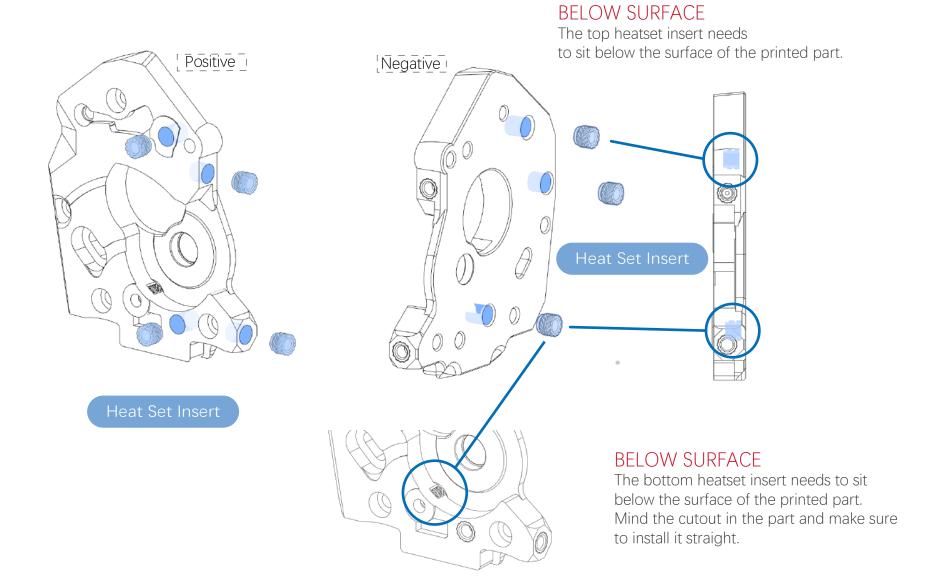


STEALTHBURNER

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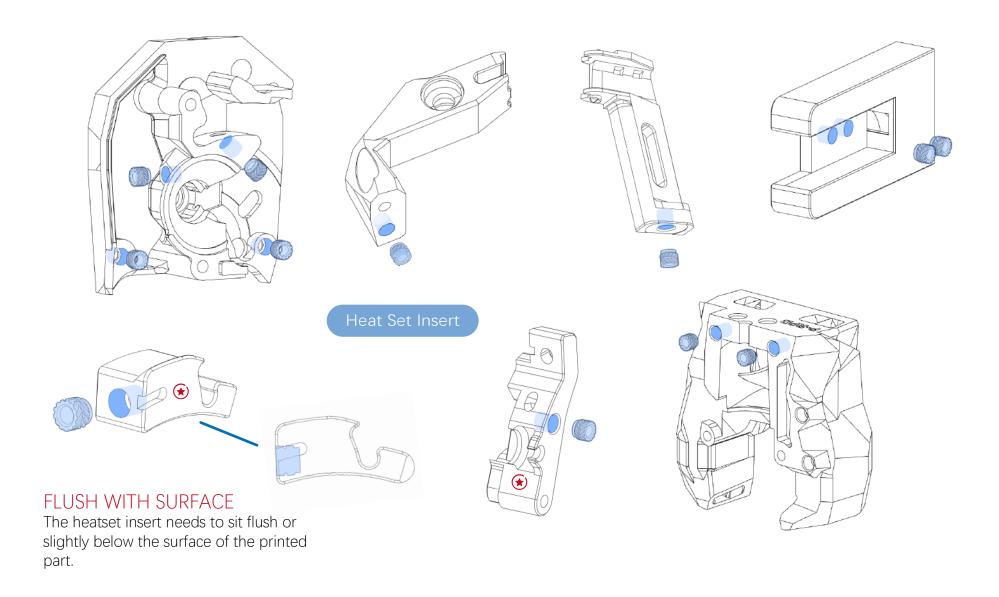


HEAT SET INSERTS WWW.SIBOOR.COM

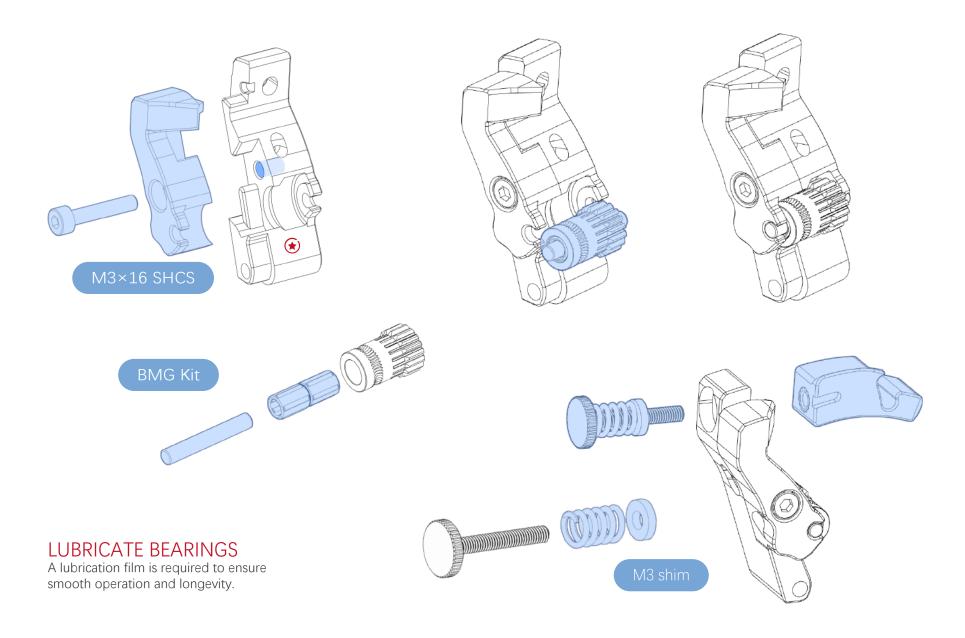


STEALTHBURNER

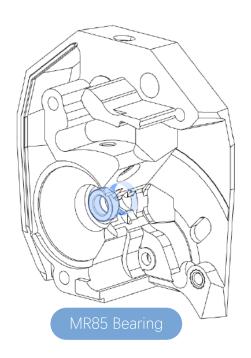
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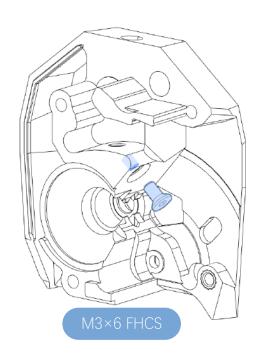


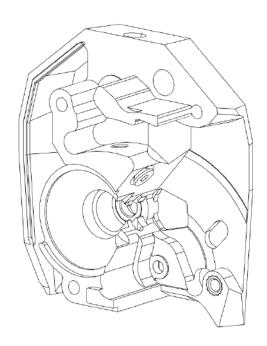
STEALTHBURNER WWW.SIBOOR.COM



STEALTHBURNER





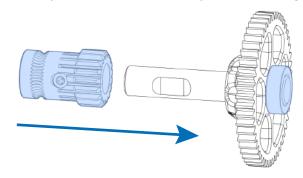


BEARING FIT

Fully seat the bearing into the plastic pocket. Apply even pressure to insert them. Avoid pressing on the inner ring of the bearing.

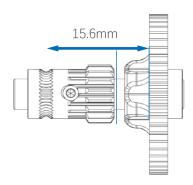
IMPORTANT NOTICE ON MR85 BEARINGS

An MR85 bearing is pre-installed and precisely positioned next to the 50T reduction gear. Under normal circumstances, do not attempt to forcibly remove it, as this may cause damage.



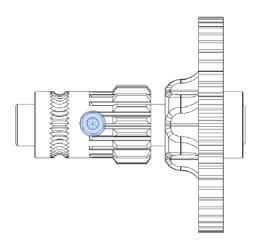
INITIAL POSITION

The final position is set later.



DRIVE GEAR

Make sure the set screw in the filament drive gear is seated against the notch in the shaft. Carefully tighten the set screw, the head is easy to strip



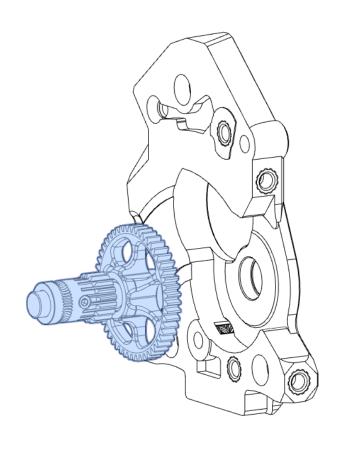
THREAD LOCKER

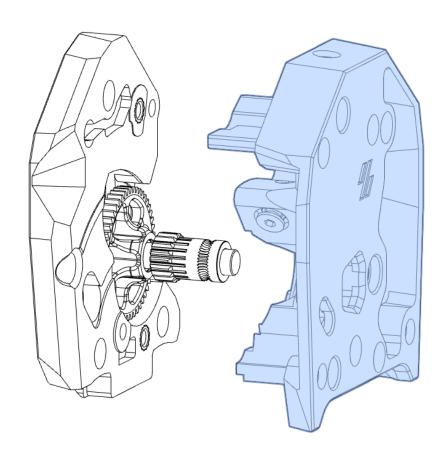
The final position of the drive gear is set in a later step. Common thread lockers have a long enough working time to complete the steps without issues.

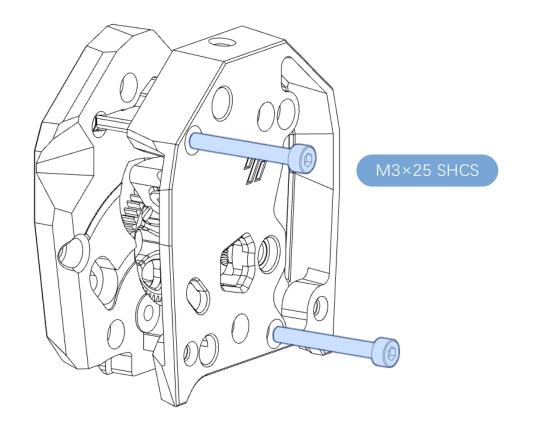
Familiarize yourself with the steps on the next 3 pages before you apply thread locker.

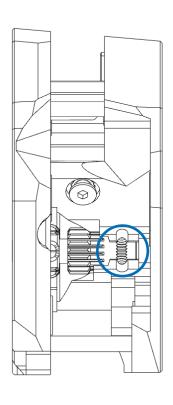
Complete the steps on the next 3 pages after applying the thread locker.

STEALTHBURNER







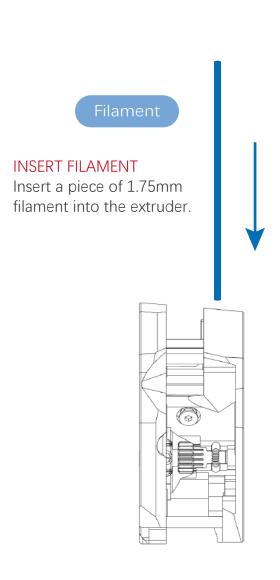


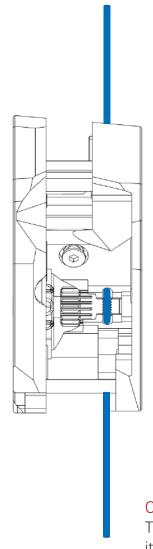
DON'T OVERTIGHTEN

Tighten until the plastic bends and cracks. Back up 2 turns, discard parts, reprint and try again.

INITIAL ALIGNMENT CHECK

Check if the filament path aligns with the toothed section of the drive gear.

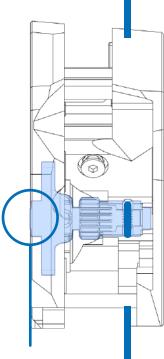




CHECK ALIGNMENT

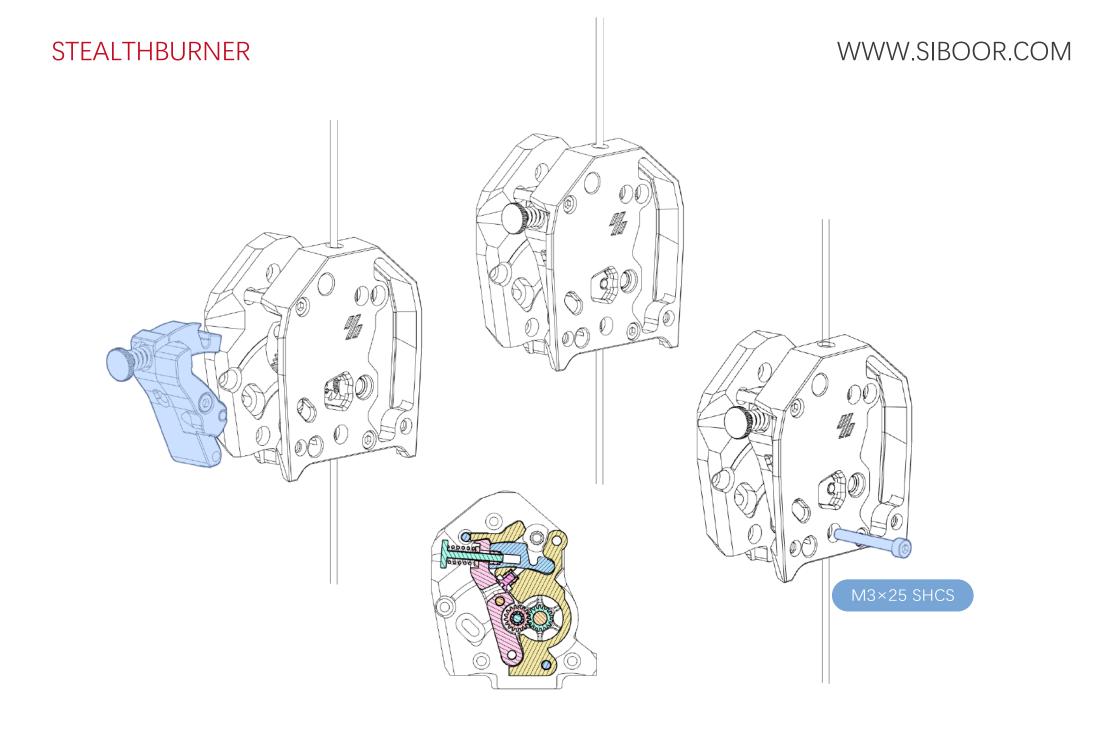
With the filament inserted, verify if the filament path and drive gear are aligned.

Loosen the set screw and adjust the position of the drive gear if required.

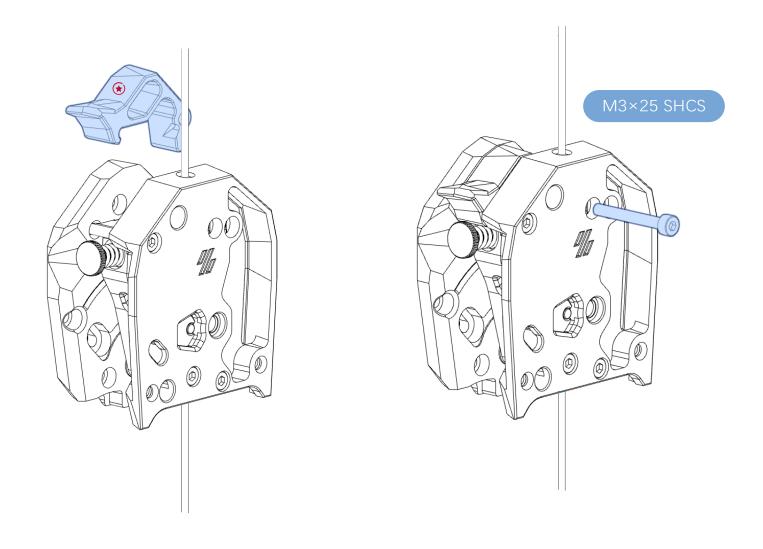


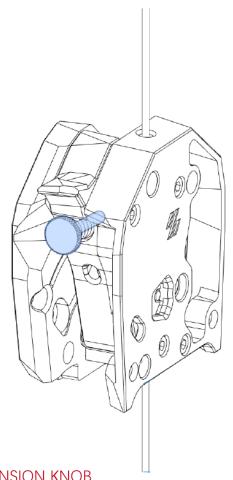
CHECK FOR CLEARANCE

The drive shaft must not touch the motor housing. Make sure it does not sit above the surface of the printed part. Check if the shaft has sufficient clearance when fully seated. Depending on the shafts tolerances you may need to adjust the position of the drive gear or sand the face of shaft.



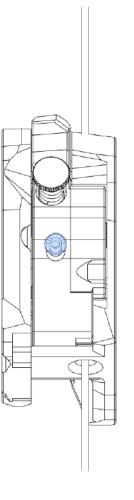
STEALTHBURNER





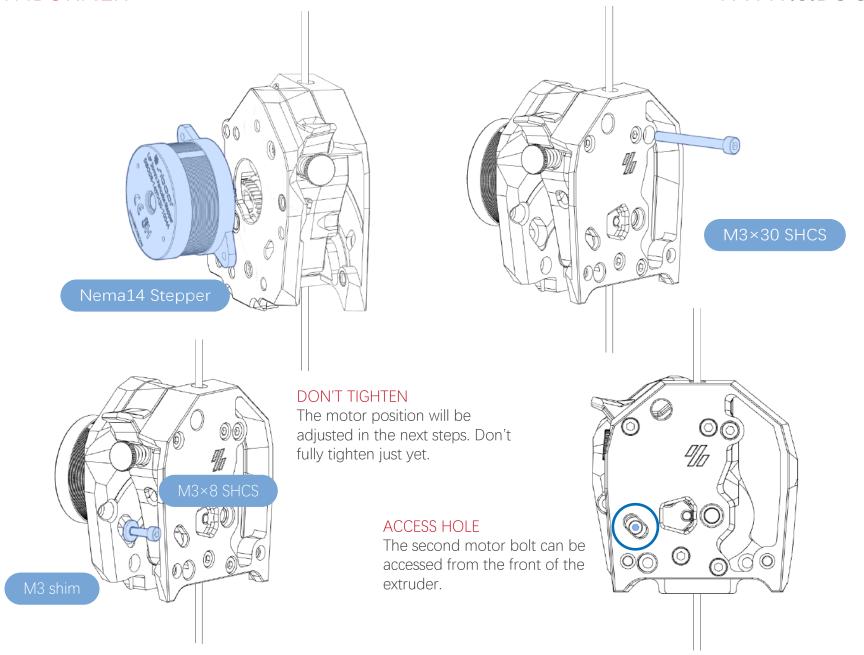
TENSION KNOB

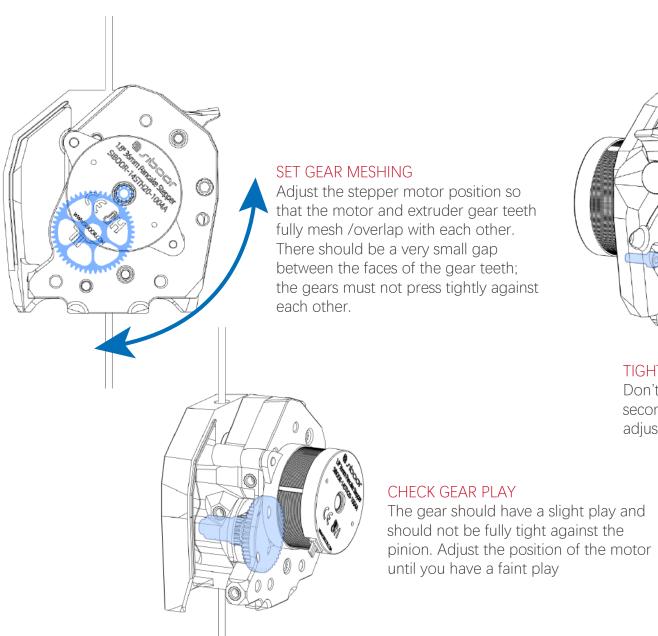
Turning the thumb screw clockwise will increase the tension and grip on the filament. Too much tension will result in print issues.

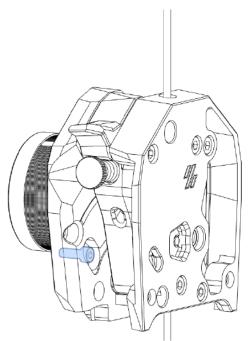


ANTI SQUISH THINGYMAJIG

Softer and flexible materials will deform and extrude poorly under too much tension. ClockWork2 adds an adjustment feature to set the minimum distance between the drive gear and the idler, limiting the squish on the filament, and to prevent the gears from meshing too tightly or binding up the extruder.

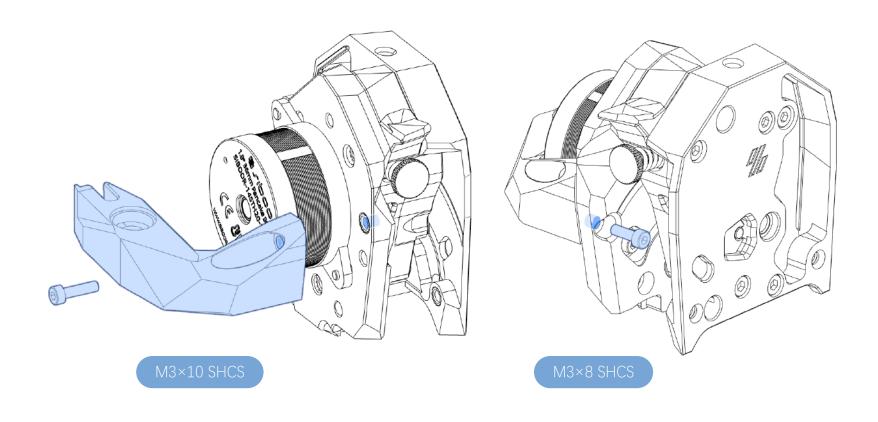






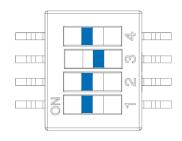
TIGHTEN WHEN DONE
Don't forget to tighten the second motor bolt after adjusting

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SETTING FAN OUTPUT VOLTAGE

Insert the jumper here to set the fan output voltage to 24V.

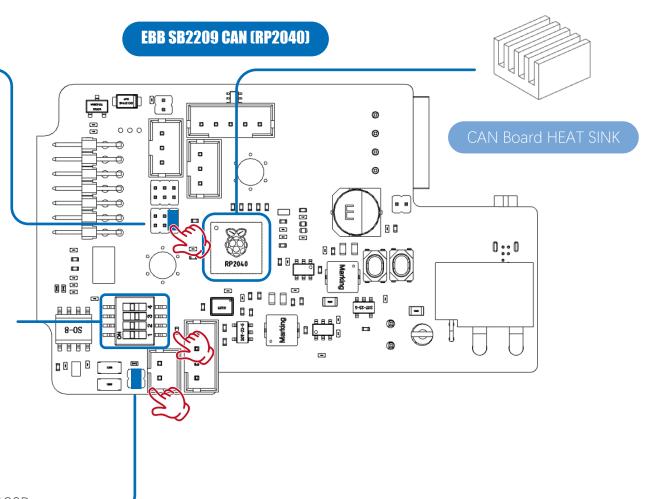


CHECKING THE DIP SWITCHES

Verify that the dip switches are set as shown in the image. This is the configuration for the 2-wire PT1000.

CAN-120R JUMPER

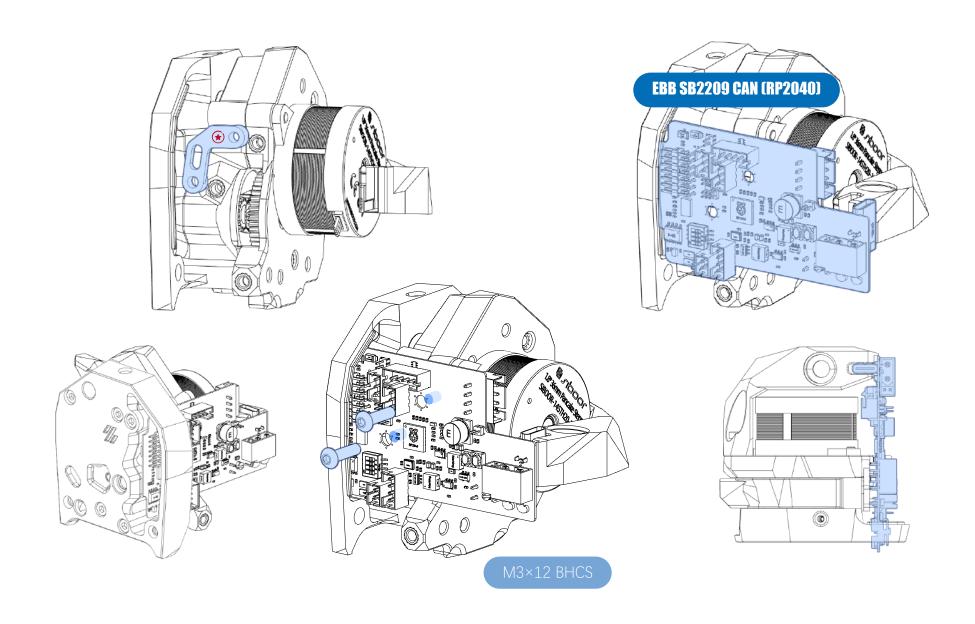
Insert the jumper here for the CAN-120R to enable proper CAN communication.



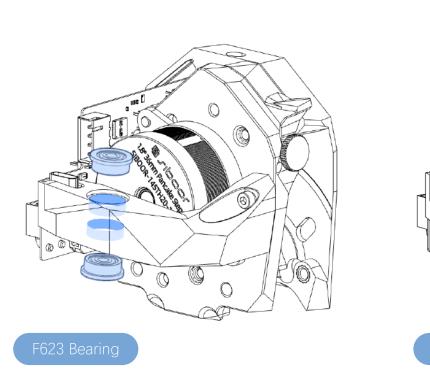
WHERE DO I FIND THE JUMPERS

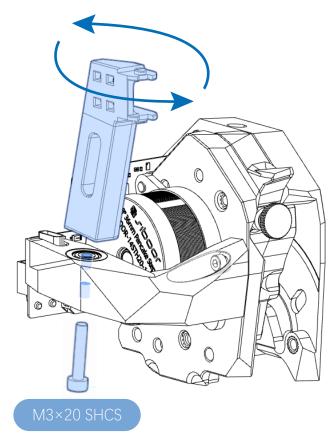
The jumpers aren't packaged with the can board, but are in the same compartment where the can board was shipped in.

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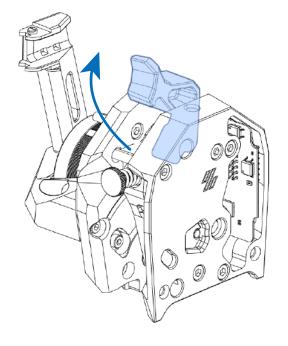
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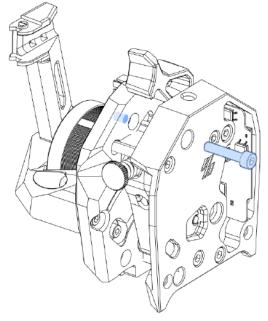
DON'T OVERTIGHTEN

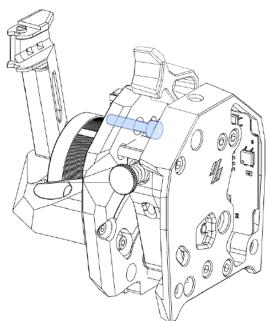
The drag chain bracket should rotate smoothly 360°.



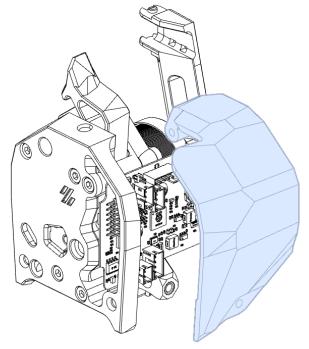
OPEN LATCH

Undo the filament latch to expose the bolt pocket for the cable cover.



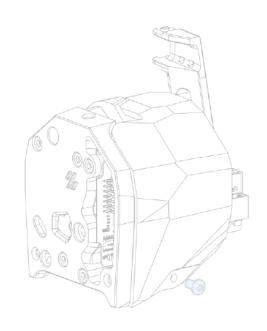


M3×16 SHCS



DON'T OVER-TIGHTEN

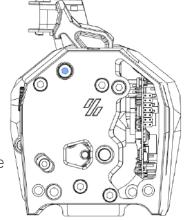
The bolt is threaded directly into plastic.



M3×6 BHCS



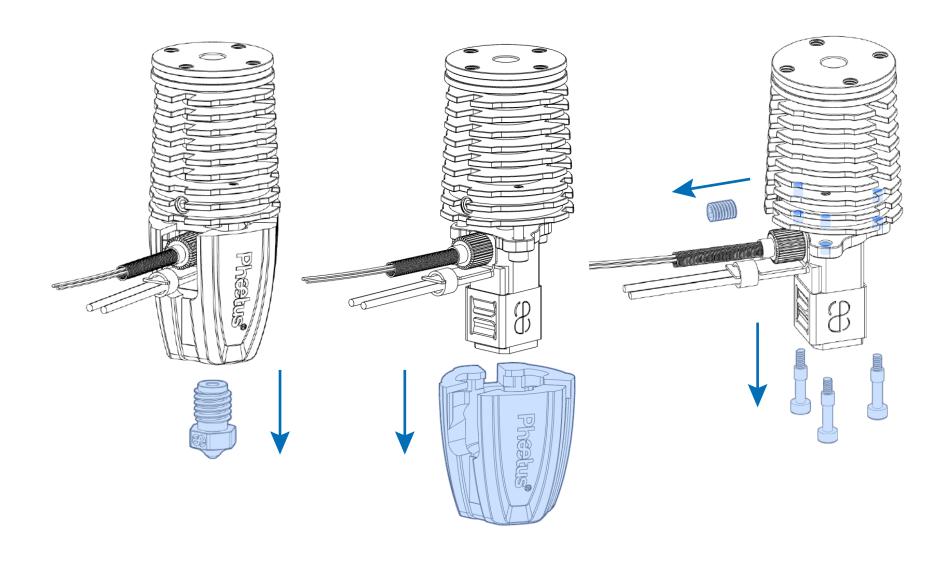
The bolt drive can be accessed from the front of the extruder.



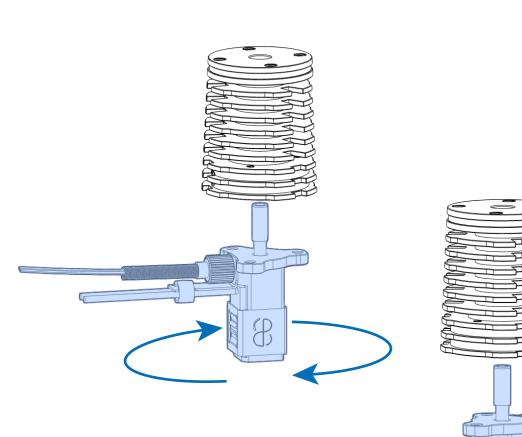
CABLE COVER

The cable cover can be secured using M3×6 BHCS screws, but not now, as we still need to do the wiring.

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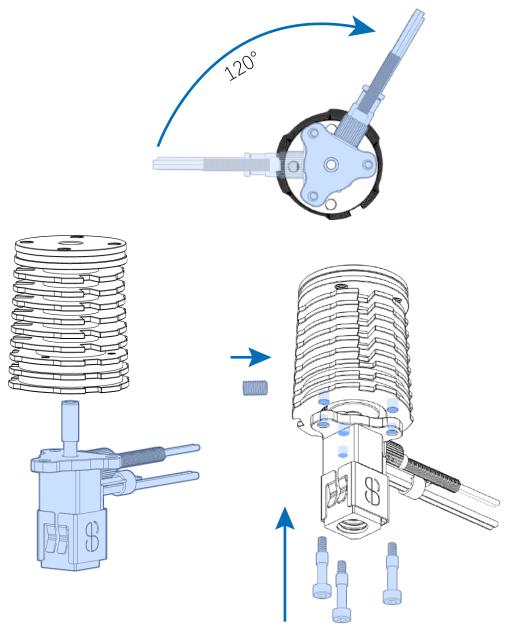


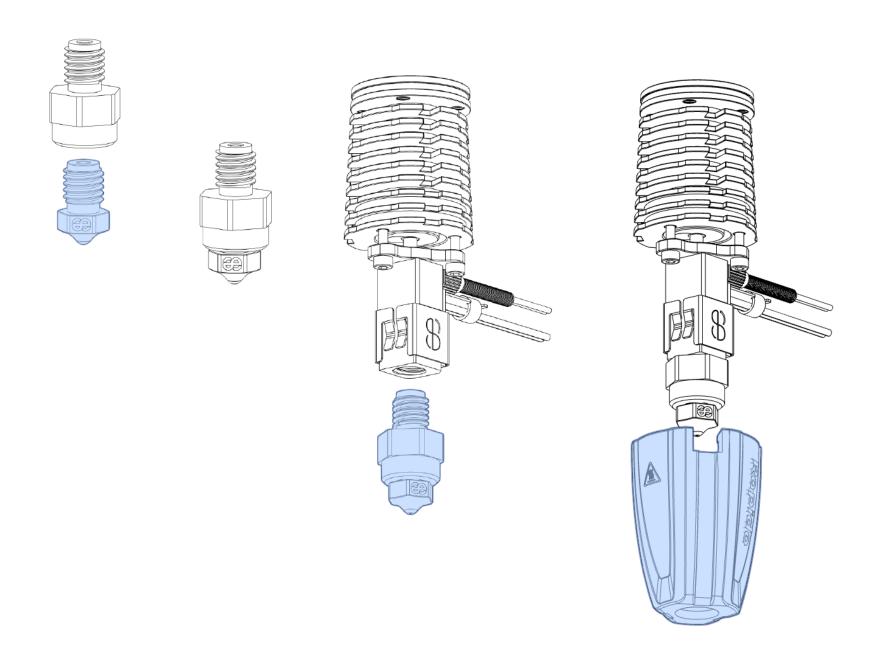
STEALTHBURNER WWW.SIBOOR.COM

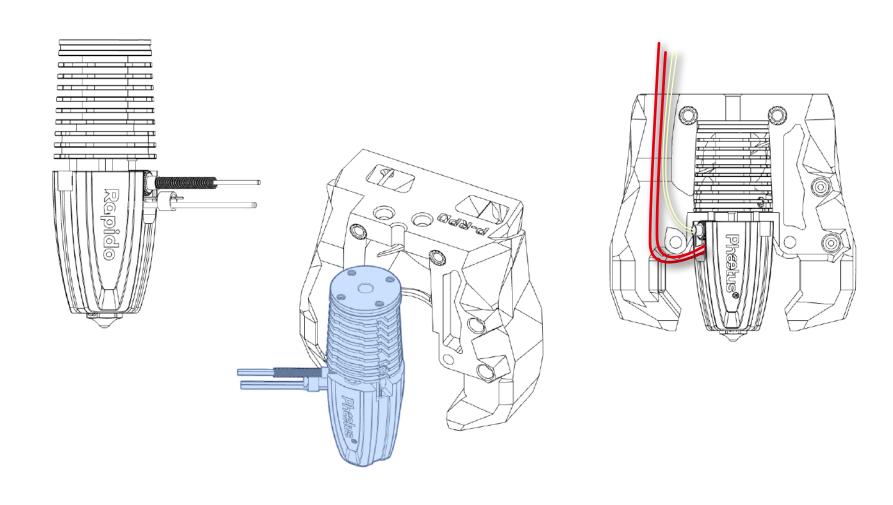


HEATING ASSEMBLY

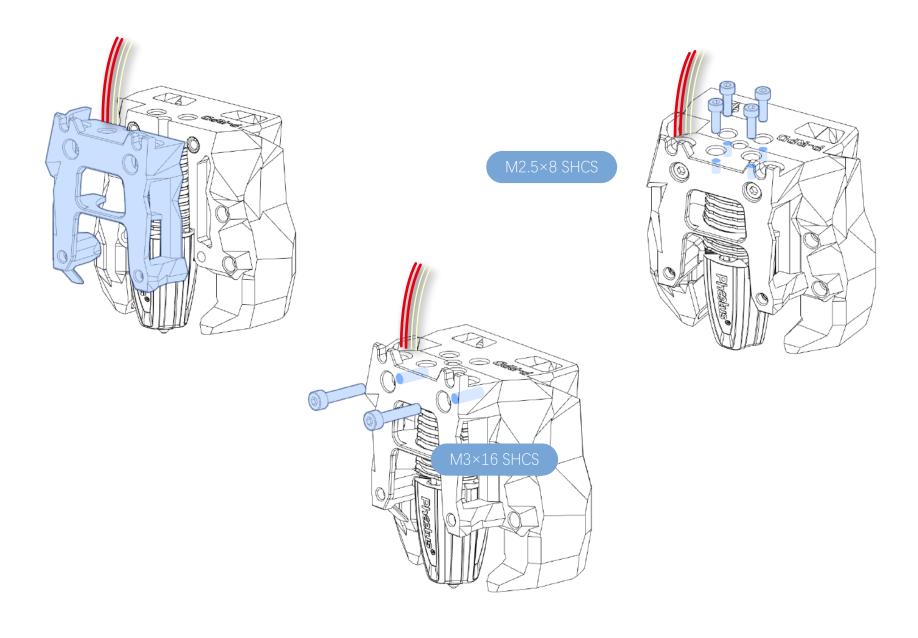
Rotate the entire heating assembly 120°, which will help with the subsequent wiring.





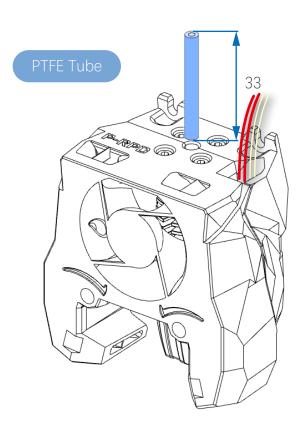


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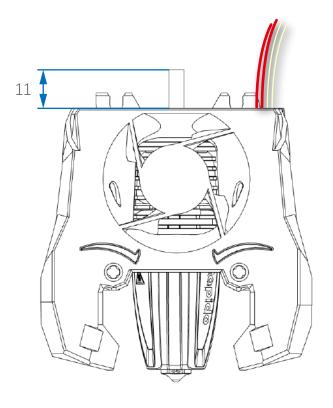
PTFE TUBE

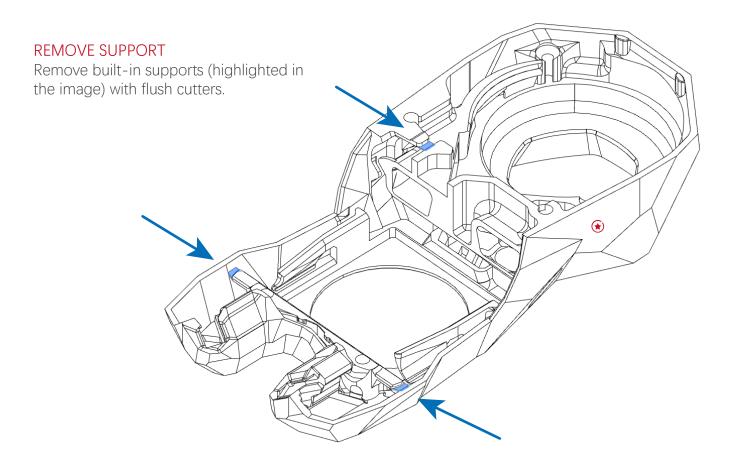
Where is the PTFE tube? It is usually a 2-meter white tube that needs to be cut to size.

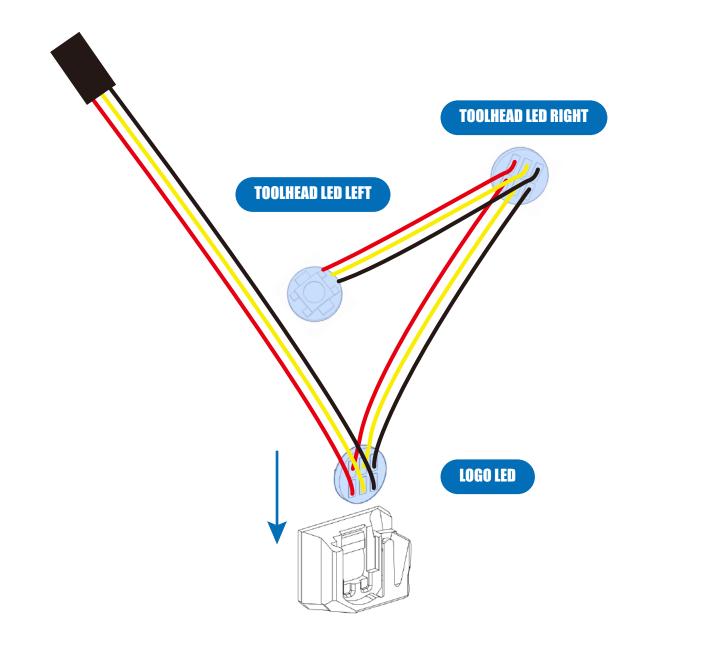


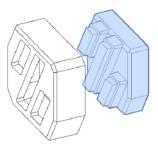
PTFE STICKOUT

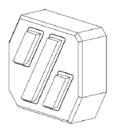
The PTFE tube should stick out 11mm above the surface of the printed part.

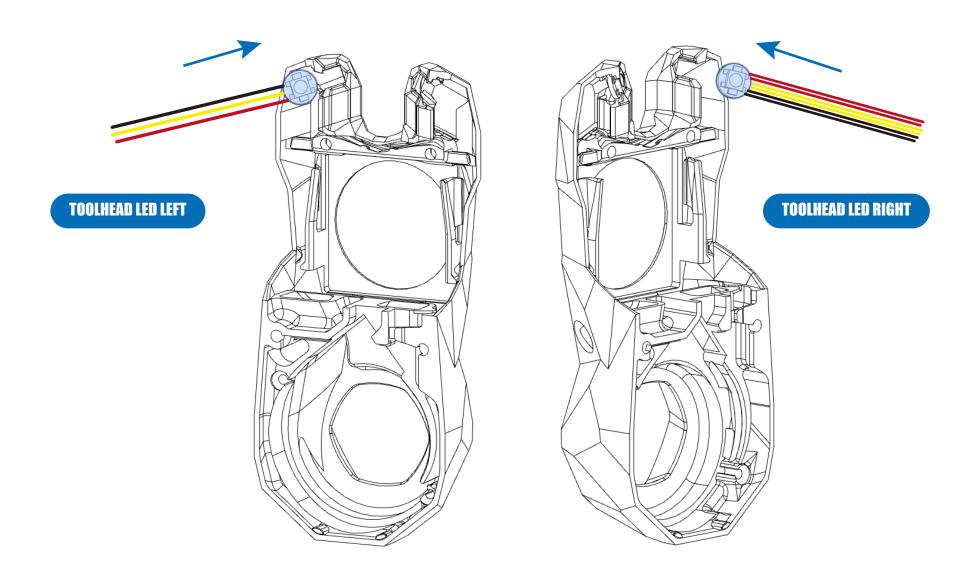


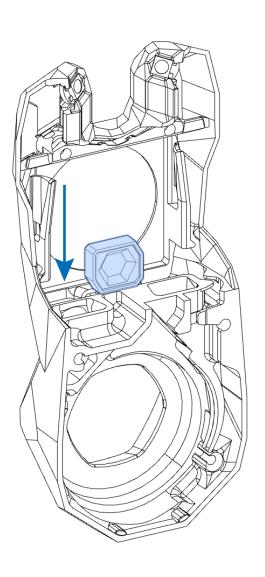






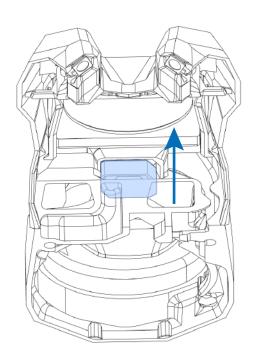


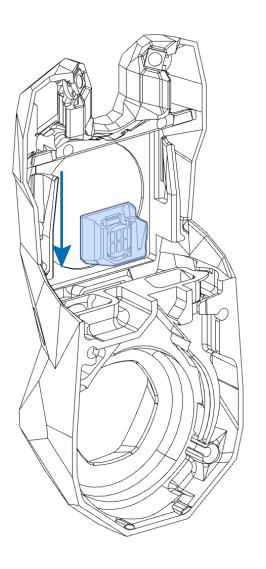




DIFFUSER INSERTION

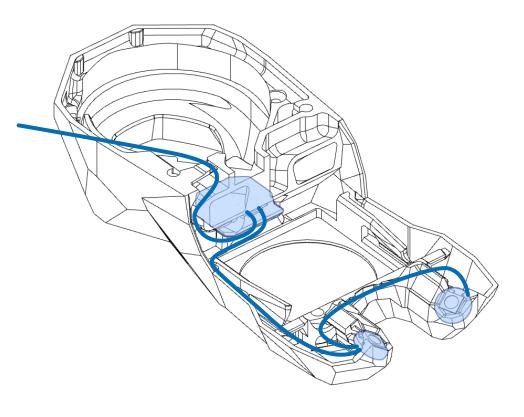
Insert the printed parts and push them towards the front.

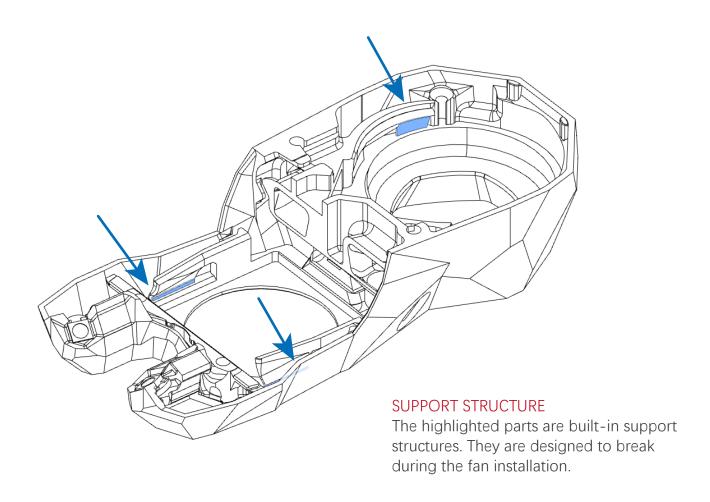


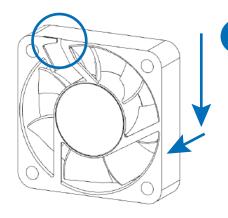


LED WIRE ROUTING

Route the LED wires as shown; wires exit on the right side.





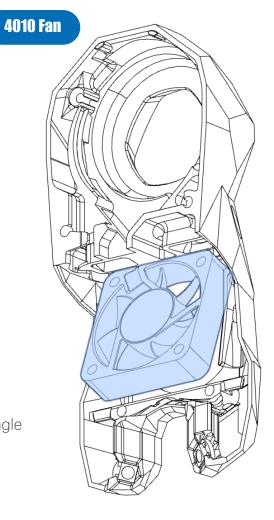


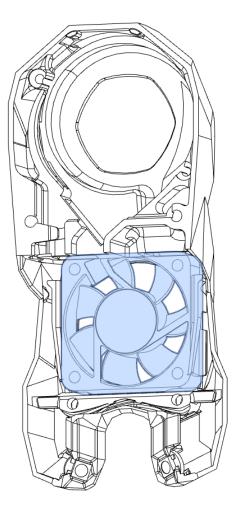
FAN ORIENTATION

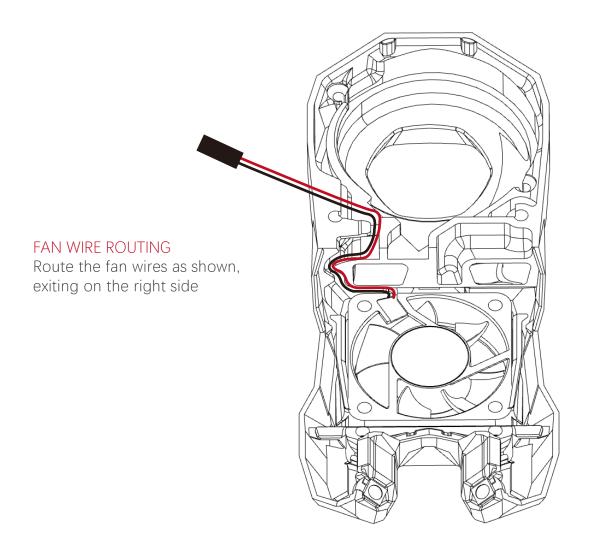
Rotate the fan so that the wires exit on the top and the air is pushed "inwards".

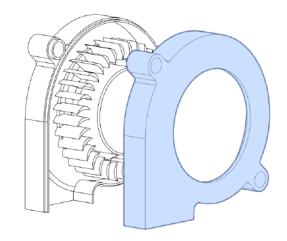
FAN INSERTION

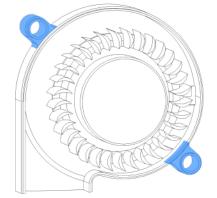
Insert the fan at a slight angle and clip it into place.
Mind the fan orientation.











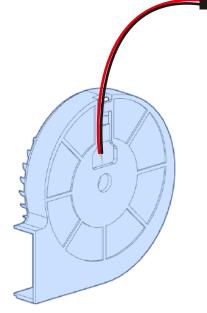
5015 Blower

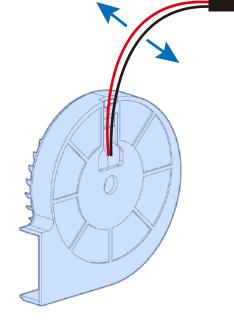
FAN PREPARATION

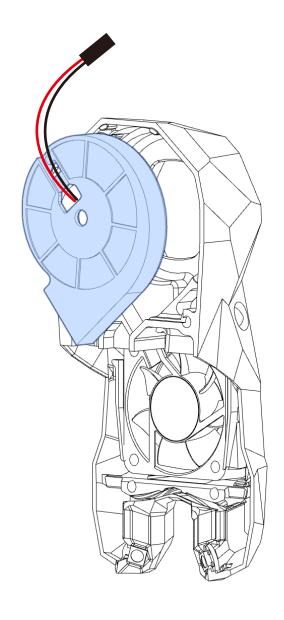
Remove the front of the 5015 fan. Clip off and file down the stock mounting ears.

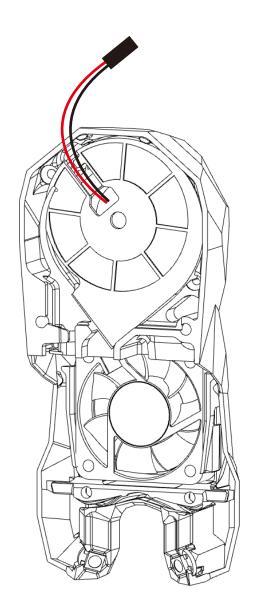
5015 Blower Wiring Instructions

The 5015 blower has short wires by design. Separate the 2 wires from each other to make wire routing easier

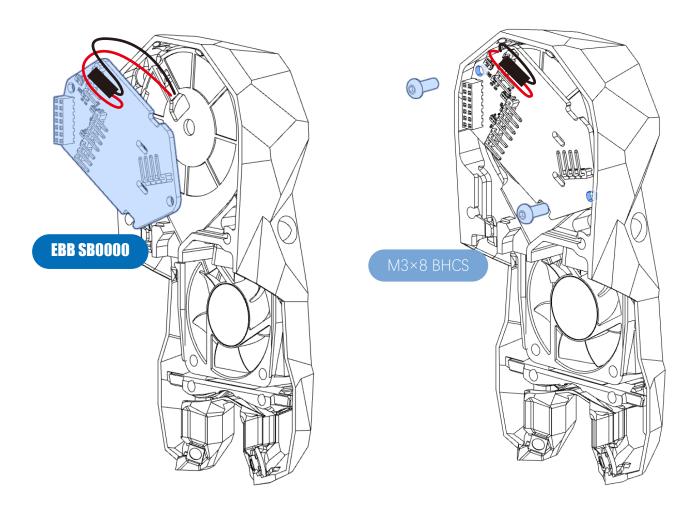


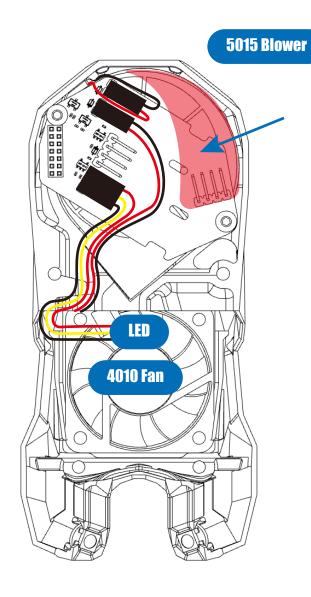






The 5015 cable is a very tight fit.
Plug it in before mounting the EBB SB0000





REASON FOR TIGHTLY DESIGNED CABLES

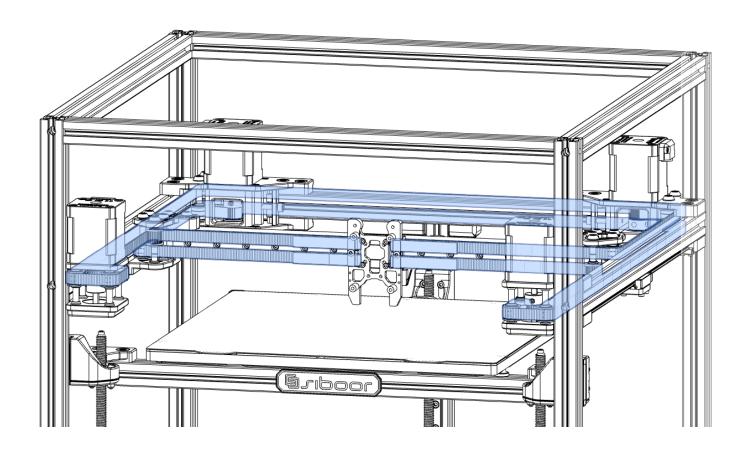
The cables are designed to be so compact to prevent the Cartographer's four cables and the 5015 blower cables from overlapping. This ensures that the faceplate and the CW2 extruder can be properly aligned.

TENSIONING THE BELTS. AGAIN.

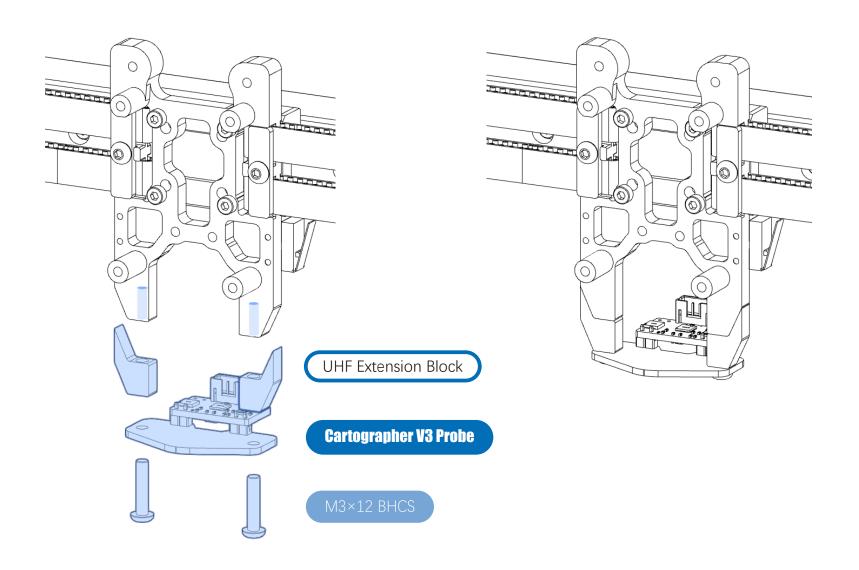
The belts were tensioned before, but you may notice that the belts have now become loose.

This is because the tension has now been distributed more evenly.

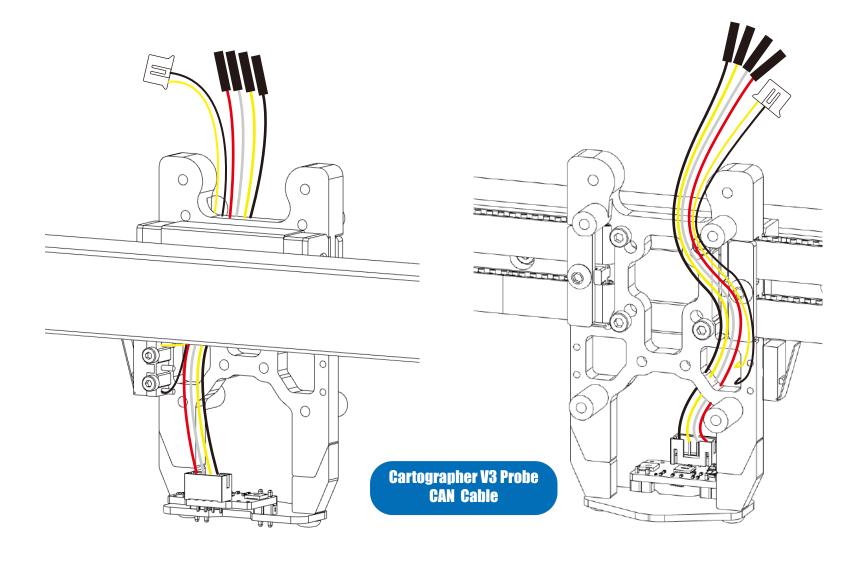
Re-tighten the belts before continuing with the next steps.



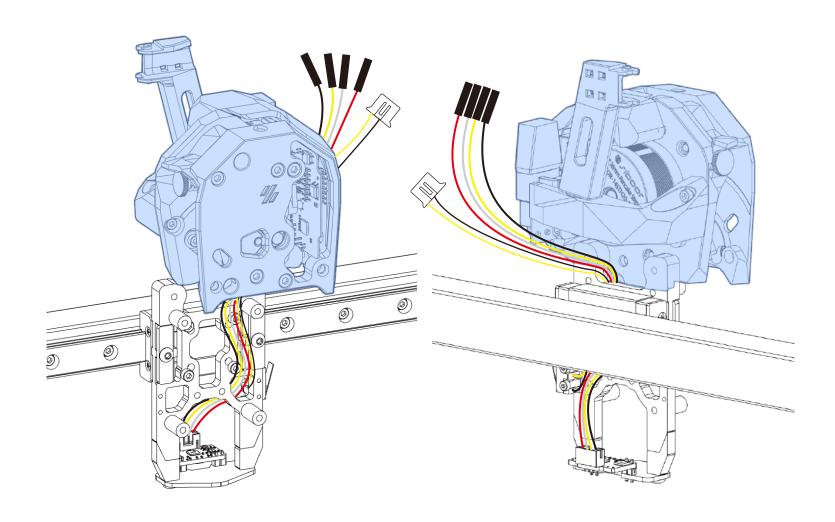
RAPIDO V2.0

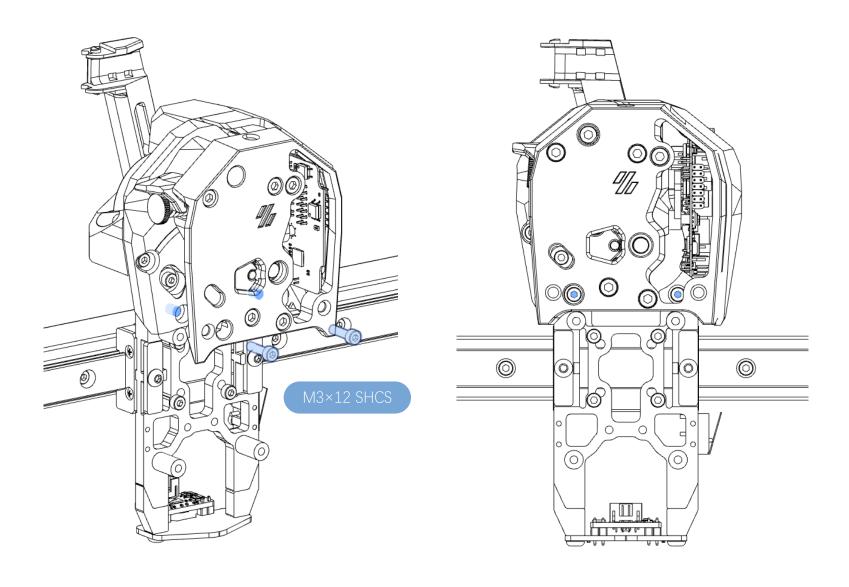


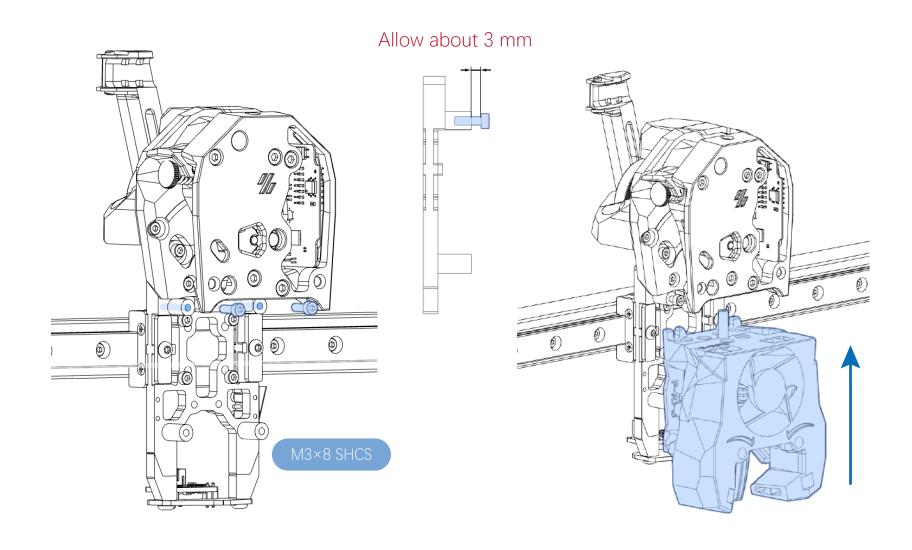
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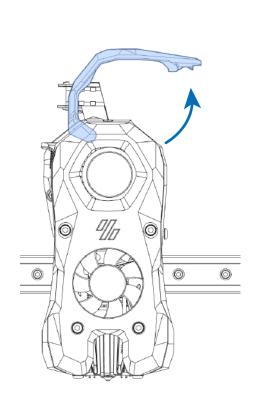


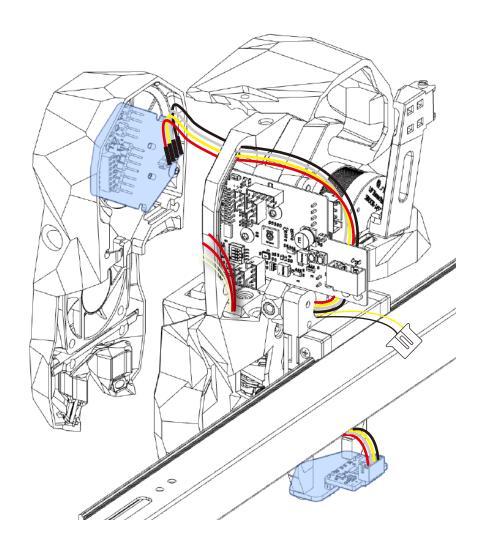
STEALTHBURNER WWW.SIBOOR.COM



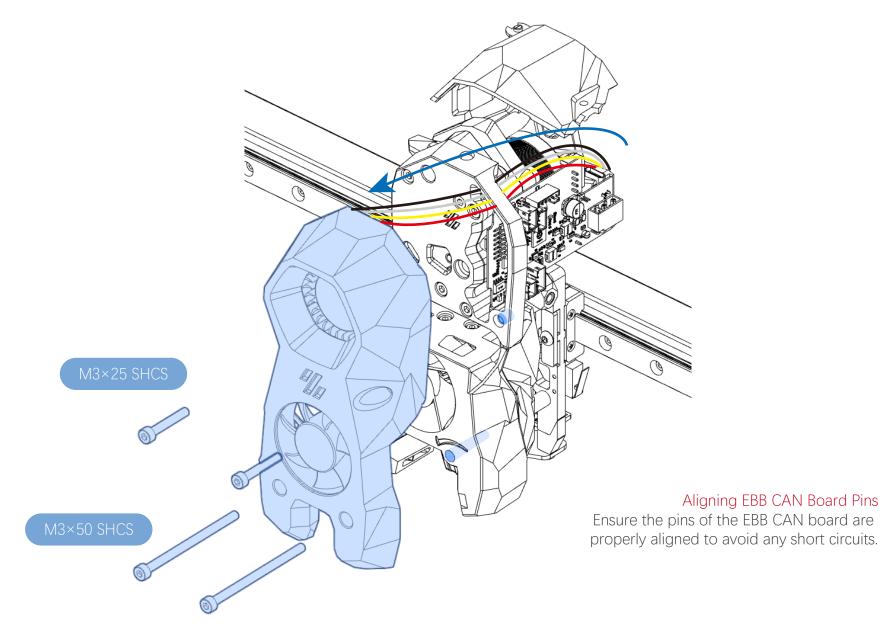




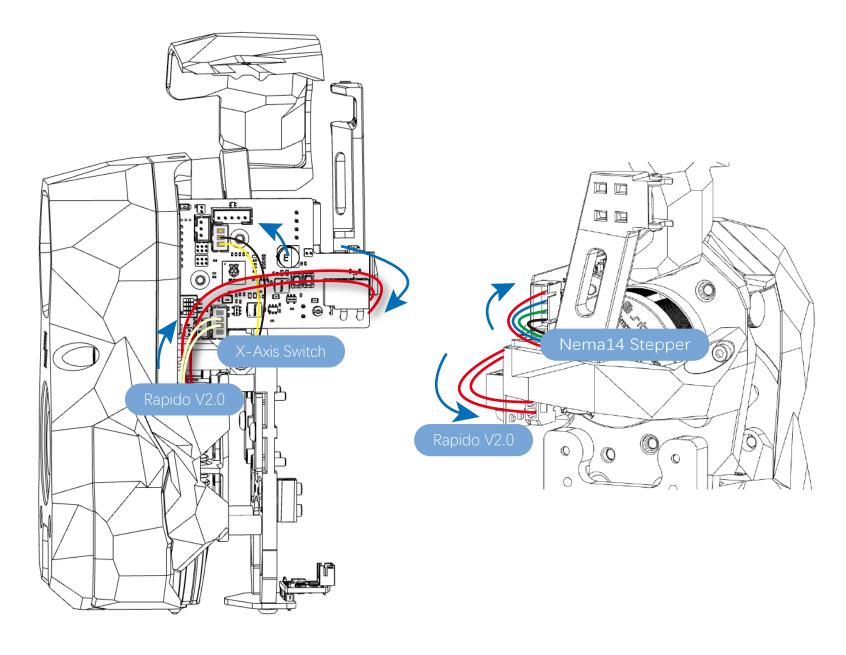




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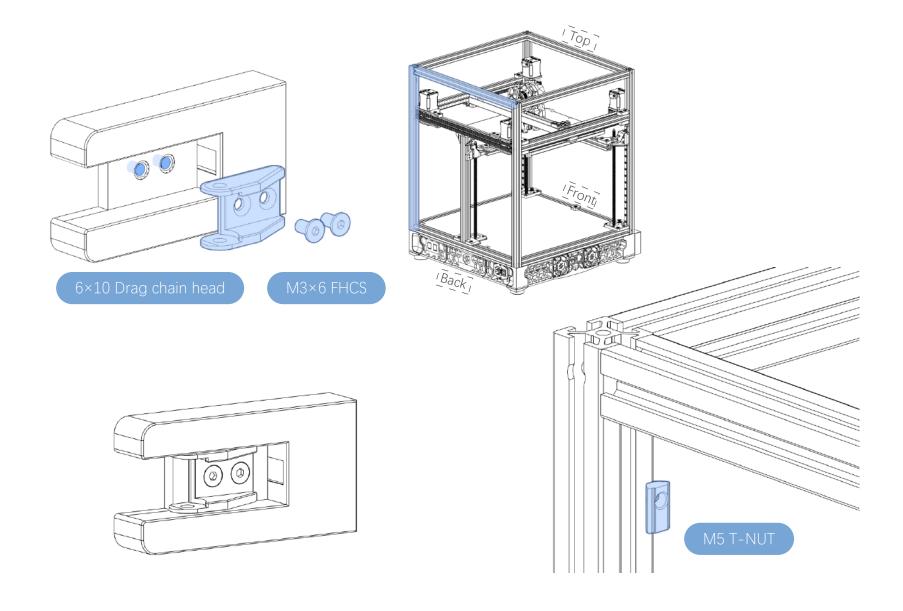


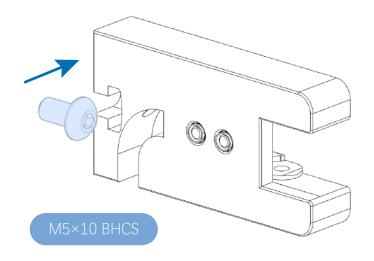
STEALTHBURNER WWW.SIBOOR.COM

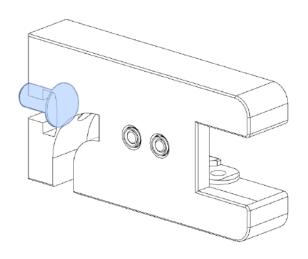


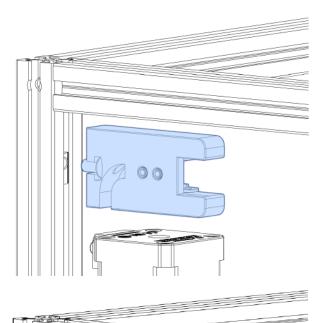
WIRING PREP WWW.SIBOOR.COM

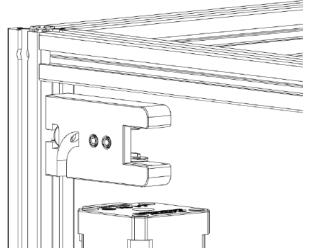




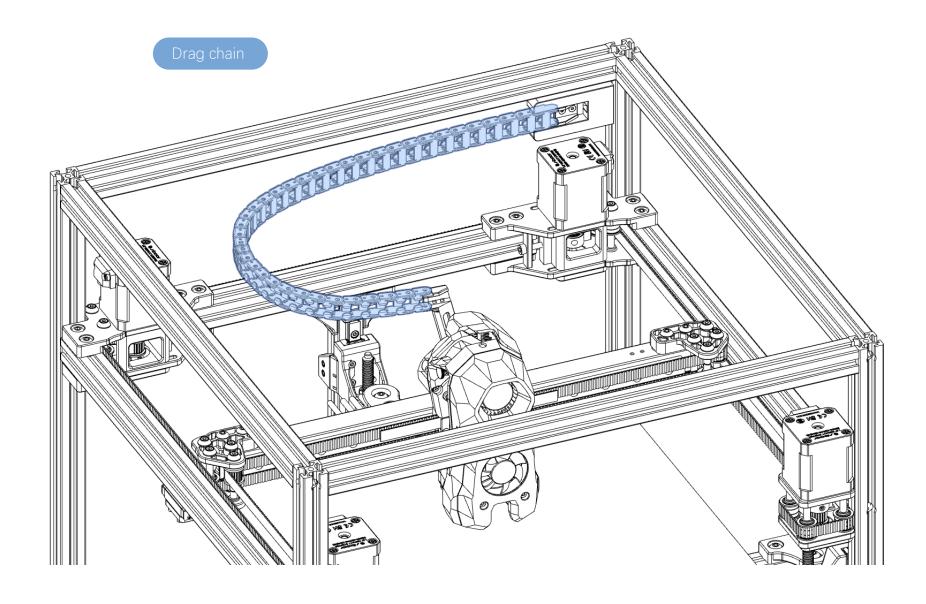




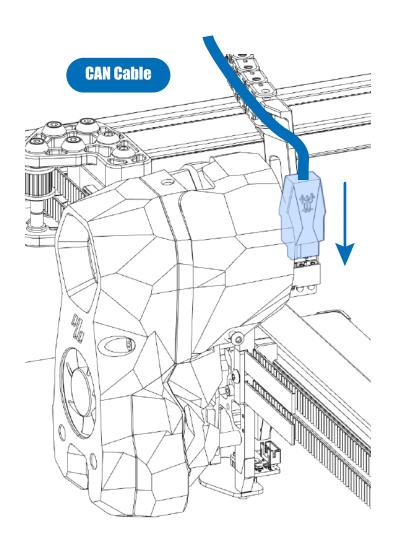




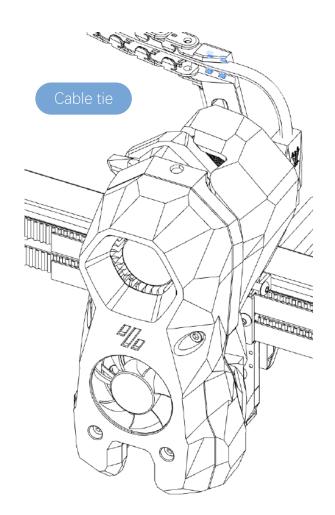
WIRING PREP



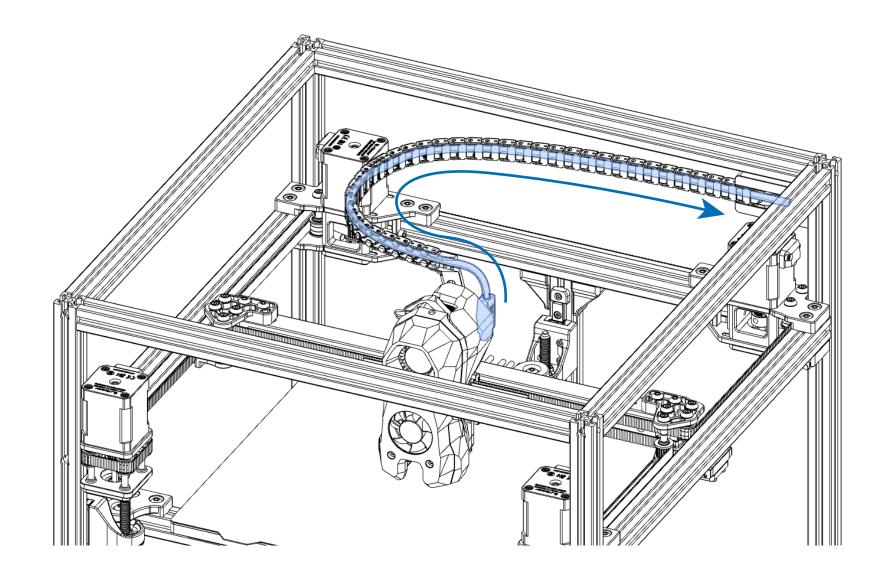
WIRING PREP



SECURING CABLES WITH ZIP TIES



WIRING PREP WWW.SIBOOR.COM



REMOVING XH2.54 CONNECTOR SHELLS

The cables with XH2.54 connectors don't fit through the bracket interior? Try removing the outer shell of the XH2.54 connector first.

Tutorial Video:

https://youtu.be/q8tU_NEZK9g?si=uQx6jH1NrSWA7Fue

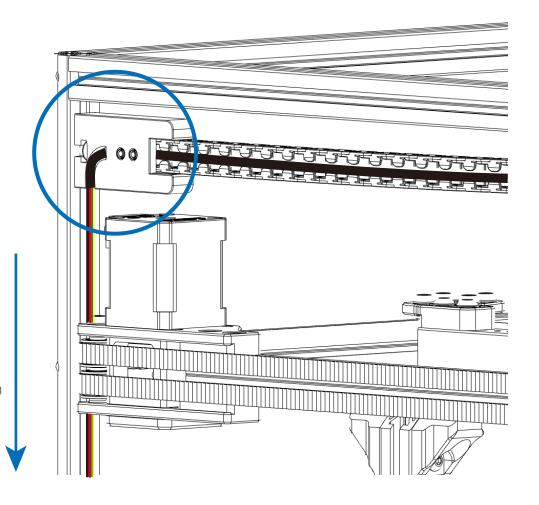
CAN CABLE

Carefully peel off the black rubber sheath of the CAN cable to ensure the internal wires are not damaged, allowing them to be hidden within the groove of the extrusion.

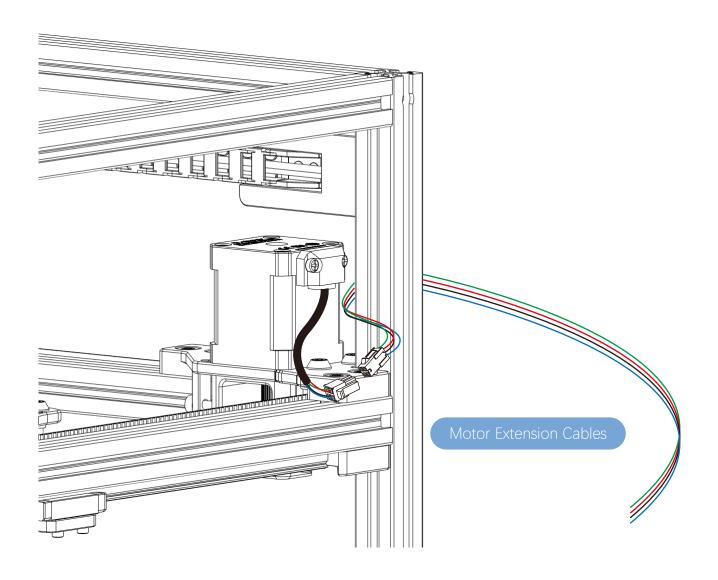
While removing the connector and peeling off the protective sheet, make sure to keep the green and yellow twisted pair cables intact and do not untwist them. Untwisting these cables can lead to significant communication issues.



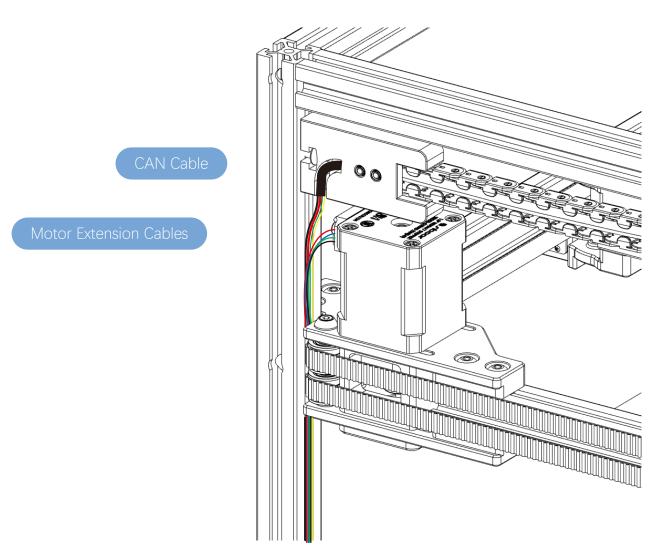


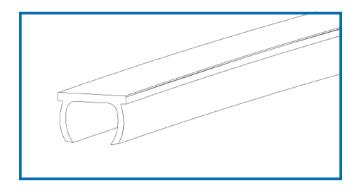


WIRING PREP

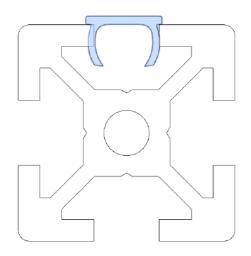


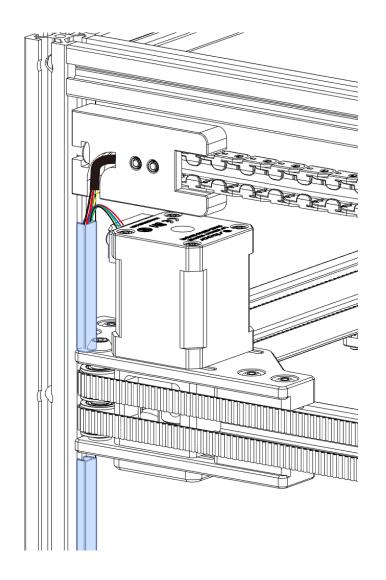
WIRING PREP WWW.SIBOOR.COM



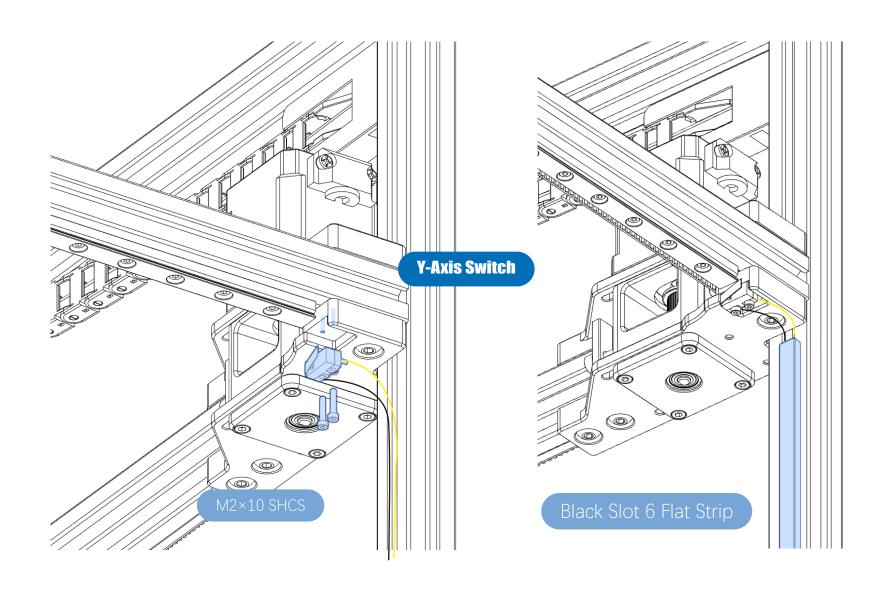


Black Slot 6mm Flat Strip

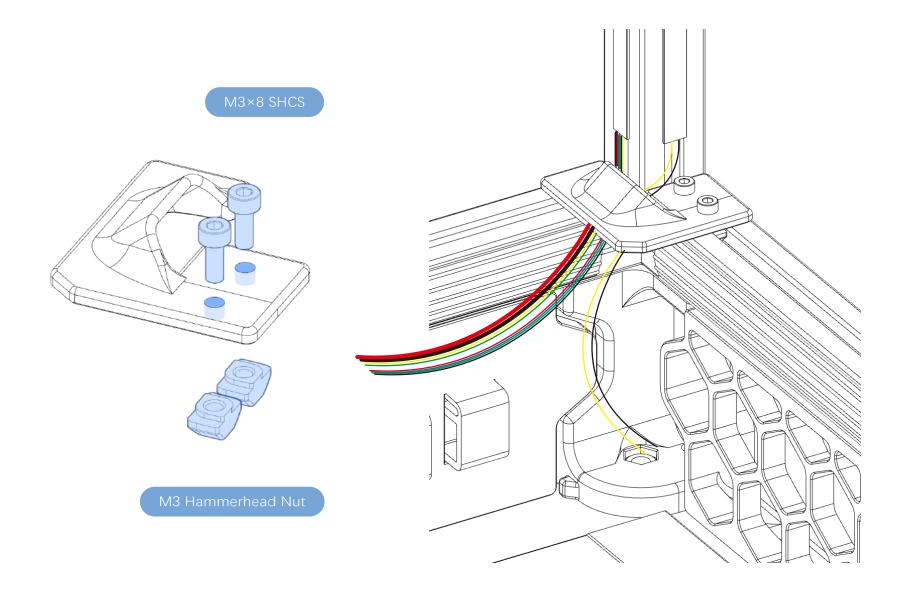




WIRING PREP

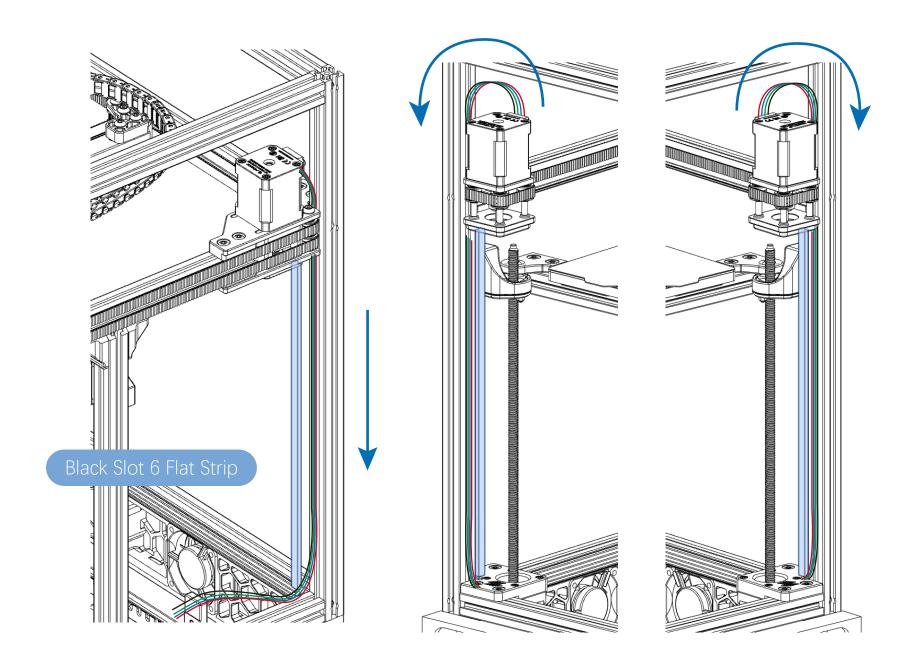


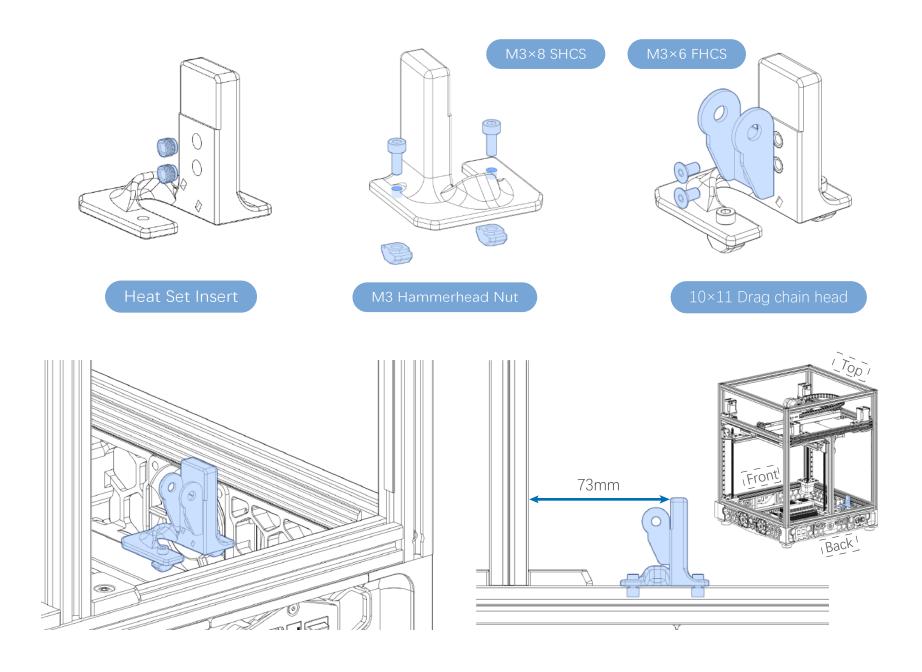
WIRING PREP WWW.SIBOOR.COM



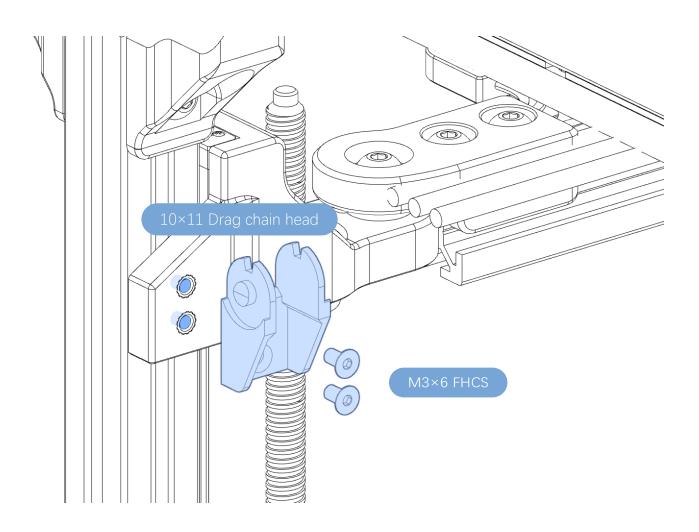
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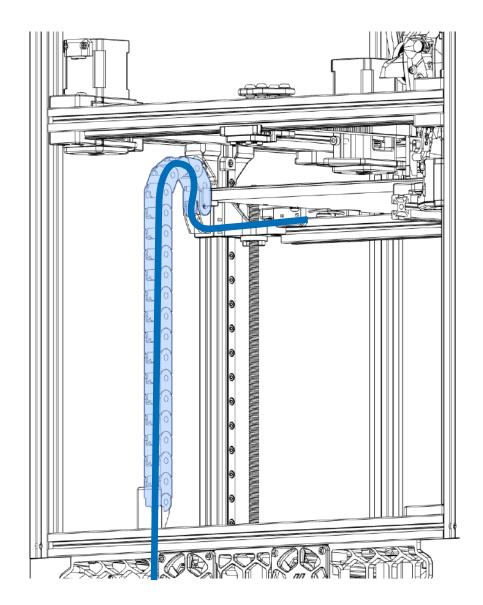
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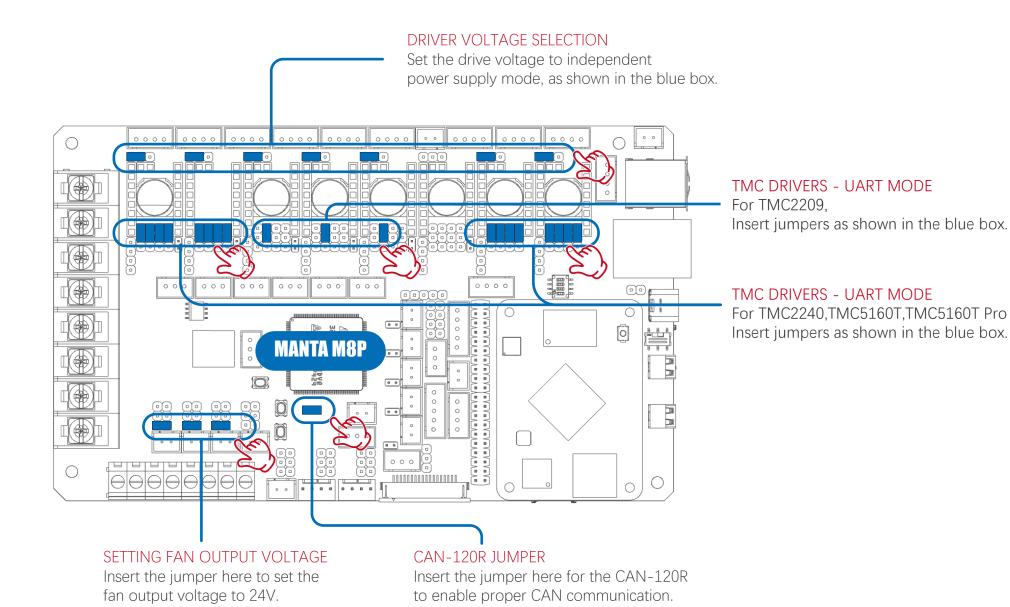
WIRING PREP

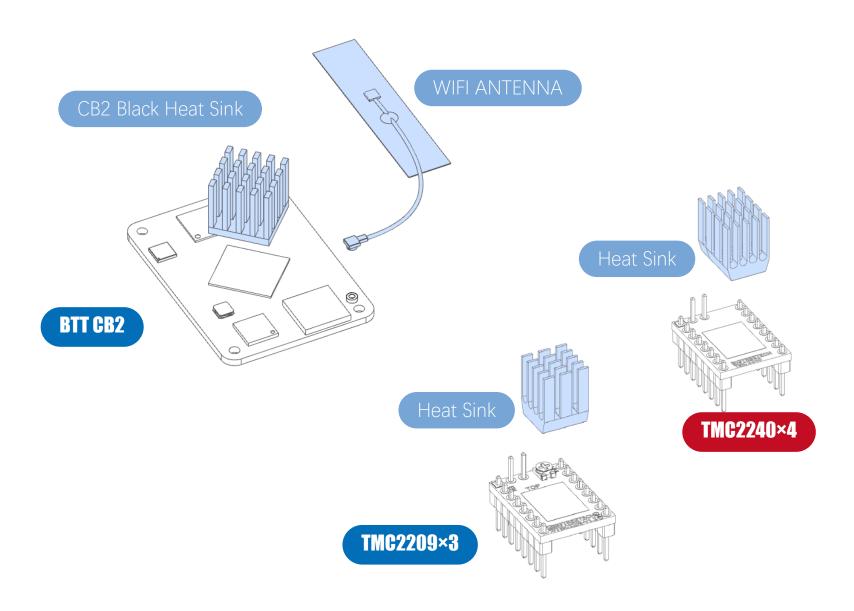


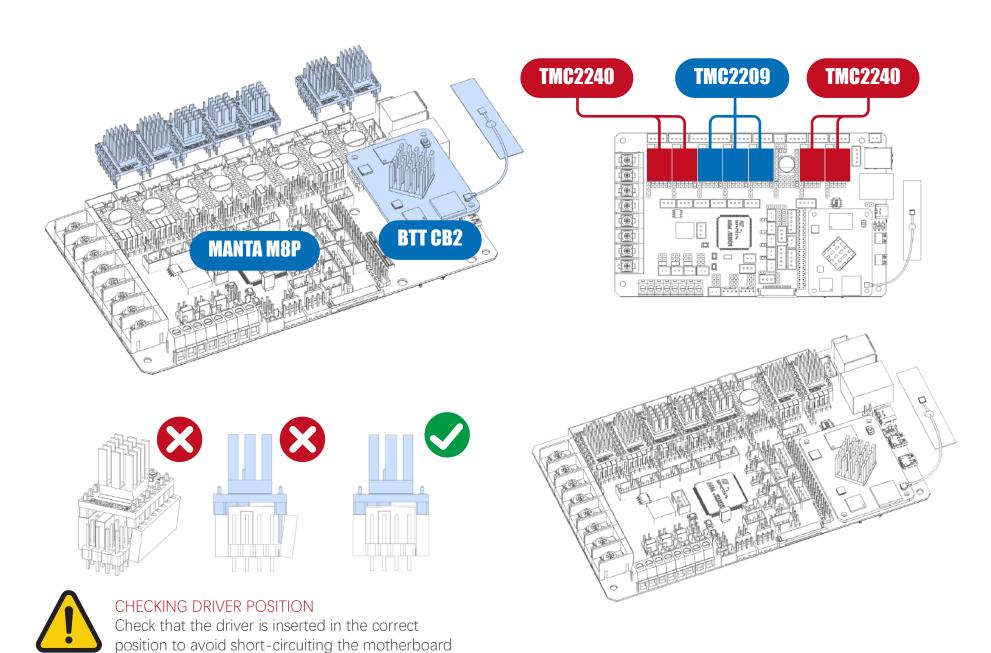


INSTALLING CABLES IN THE DRAG CHAIN

Please note that the drag chain can be opened. Use a small screwdriver or tweezers to open the drag chain, then install the cables. The hotbed cable path is shown in the diagram.

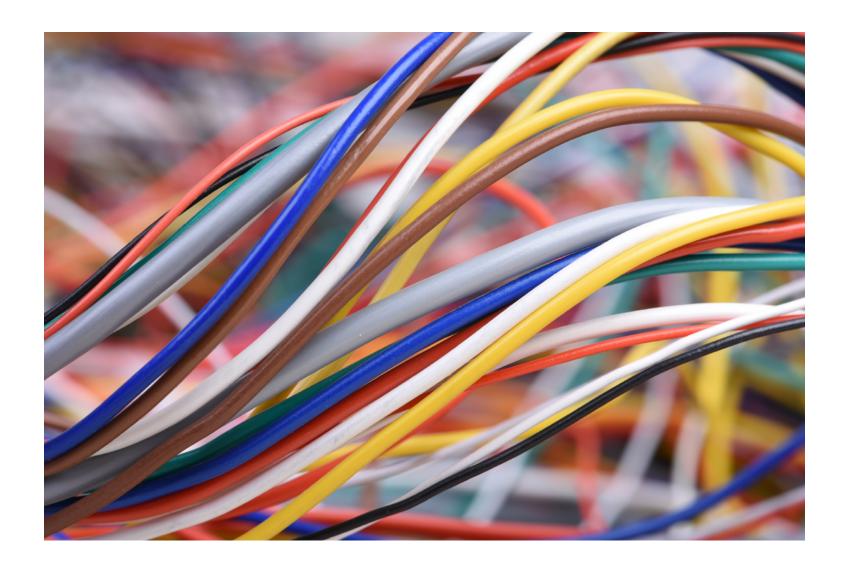


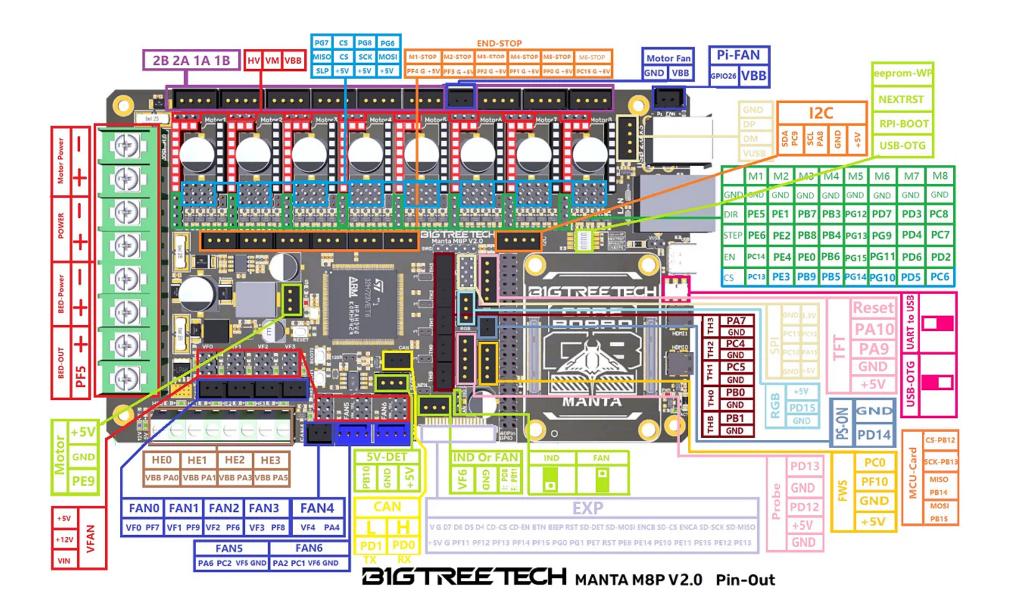


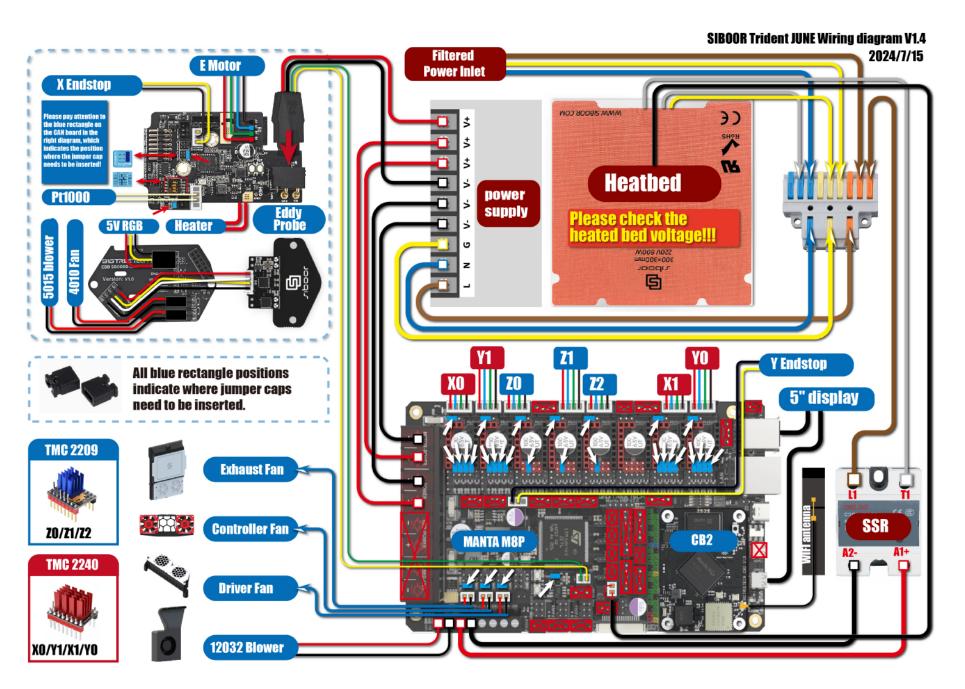


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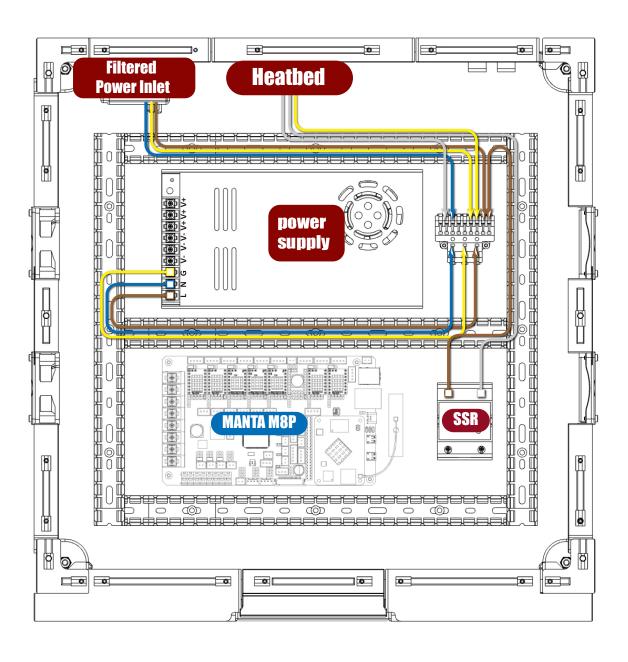




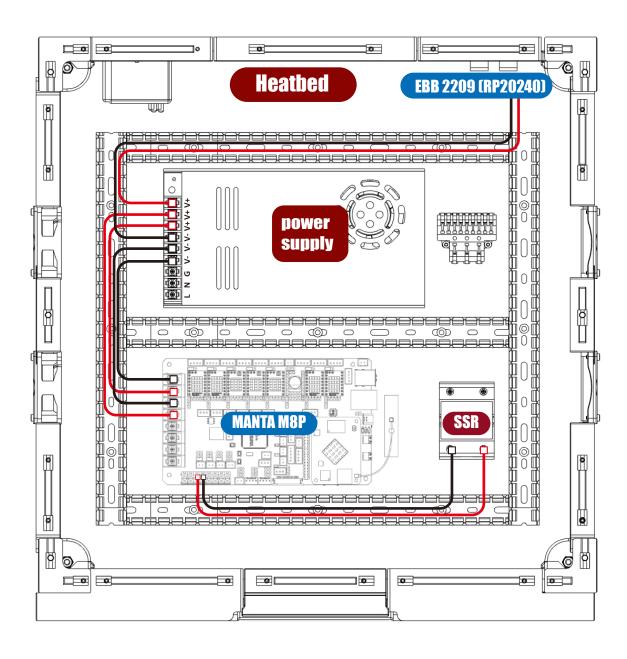




WIRING-110/220V

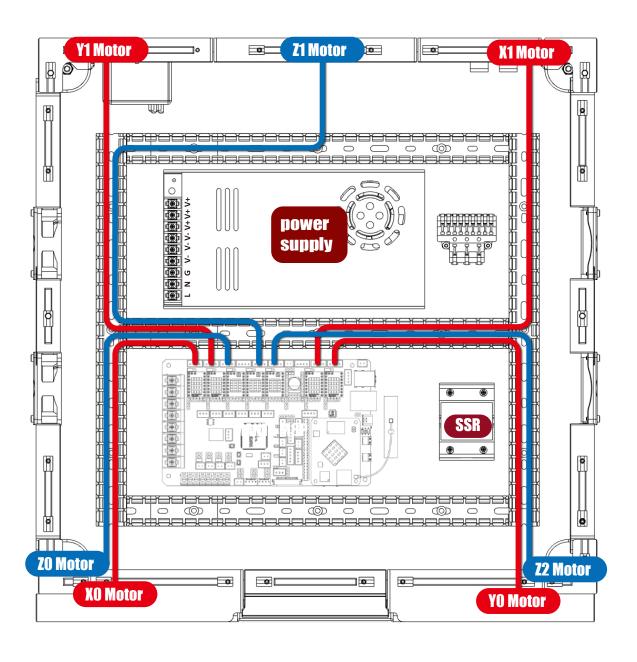


WIRING-24V

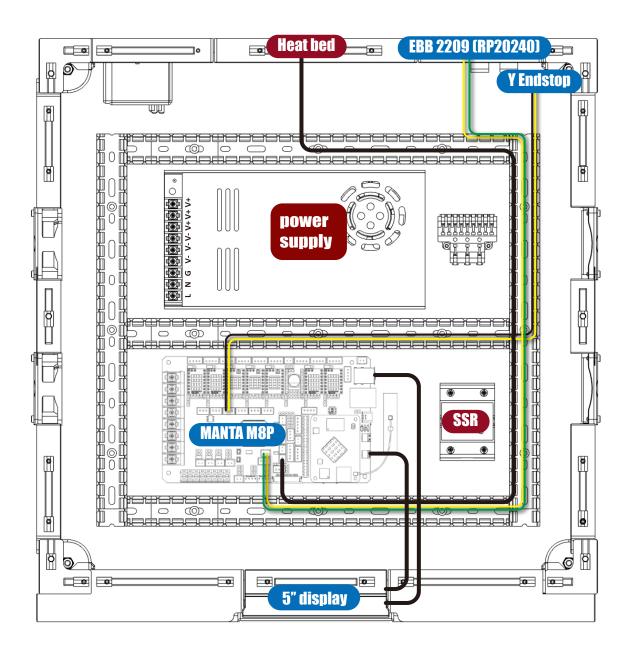


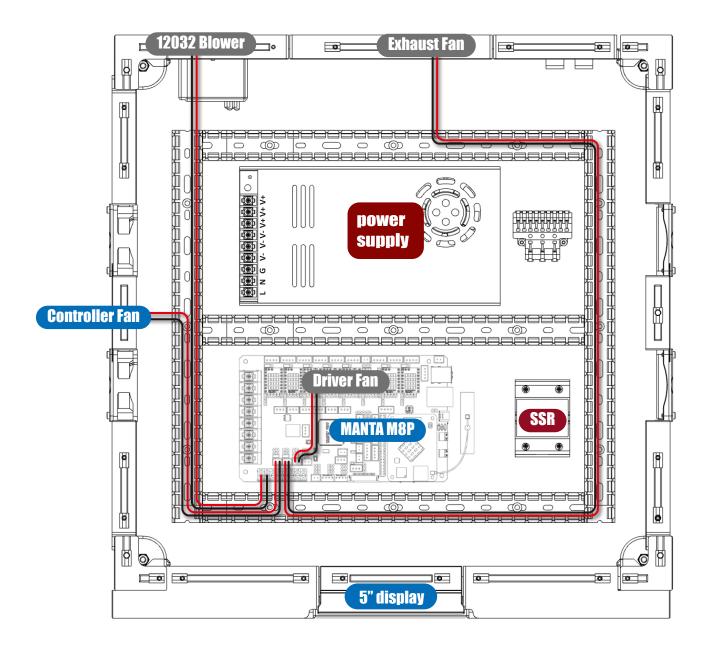
WIRING-MOTOR





WIRING-OTHER





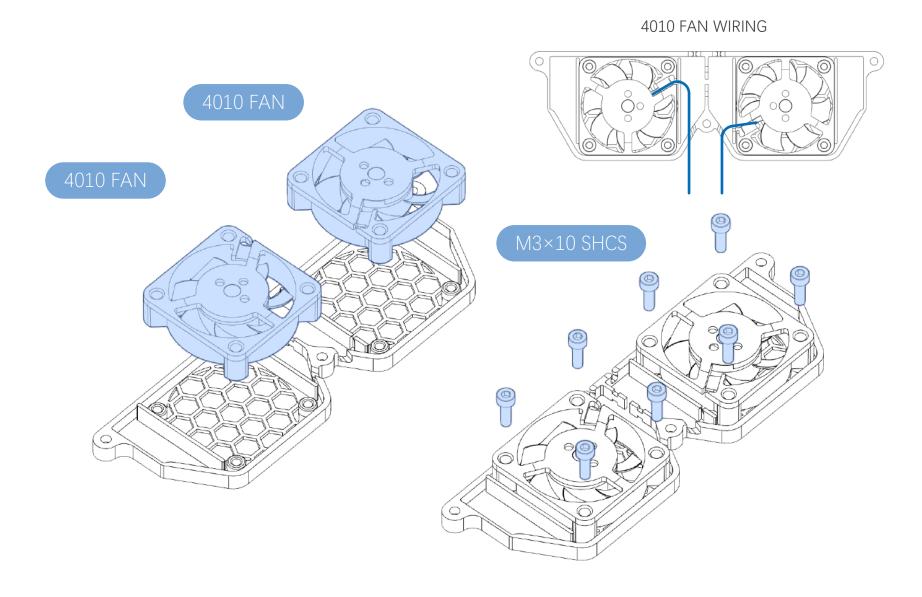
WHAT DO THE GRAY BOXES MEAN?

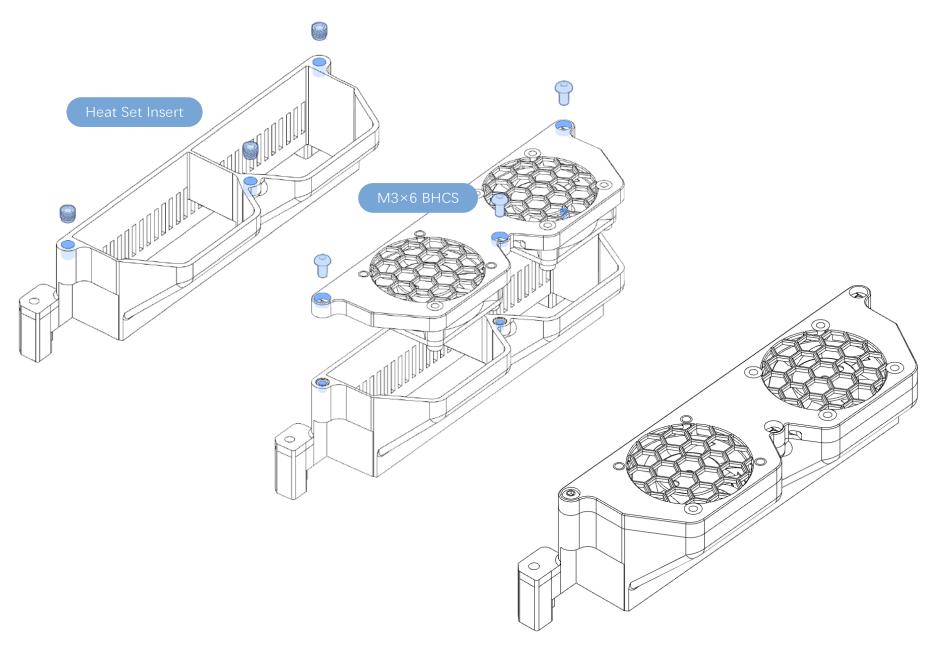
The gray boxes symbolizes parts that have not yet been assembled in the current progress, but are shown in advance for wiring demonstration purposes.

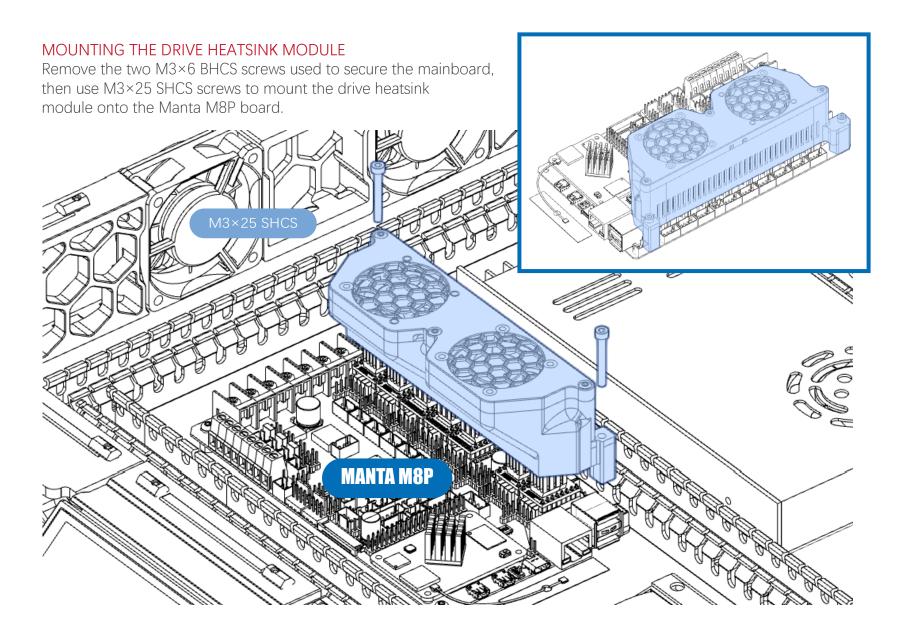
CLOSE THE CABLE MANAGEMENT DUCT?

It is not the best time to close the cable management duct now.

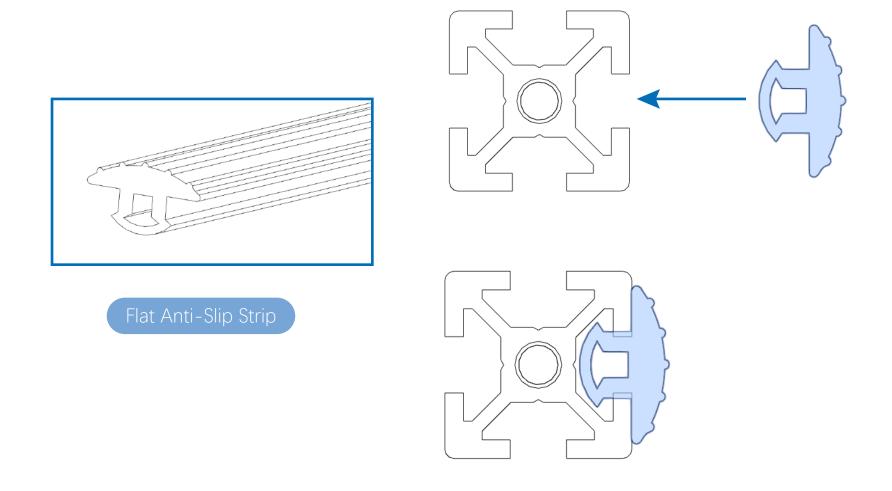
I will remind you on page 221.



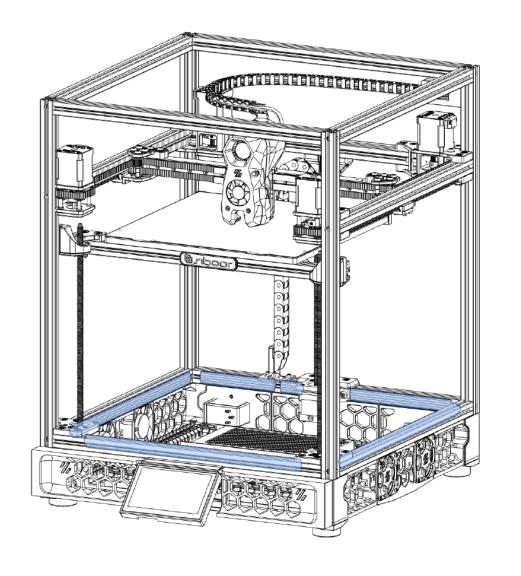


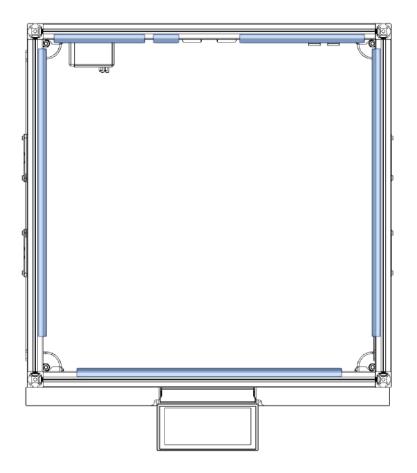




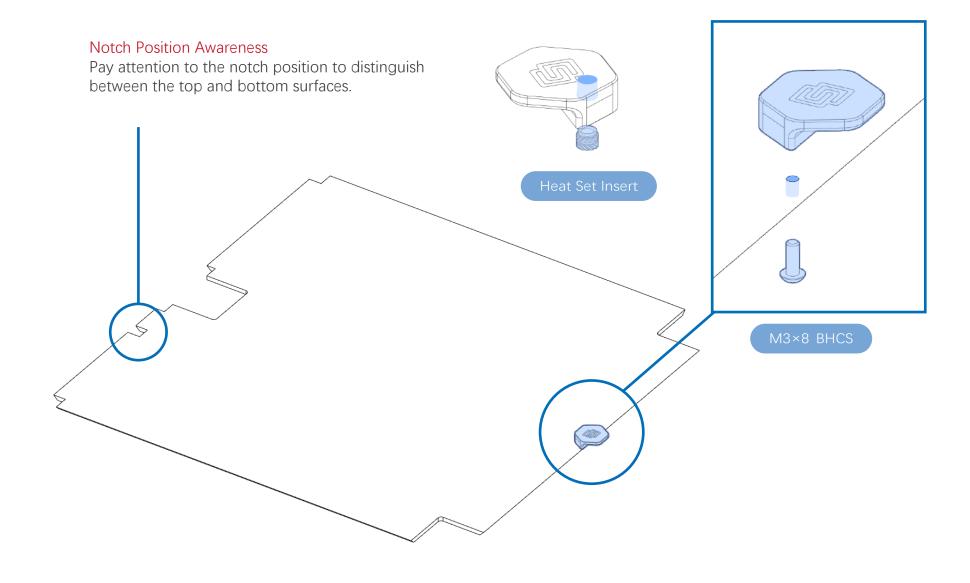






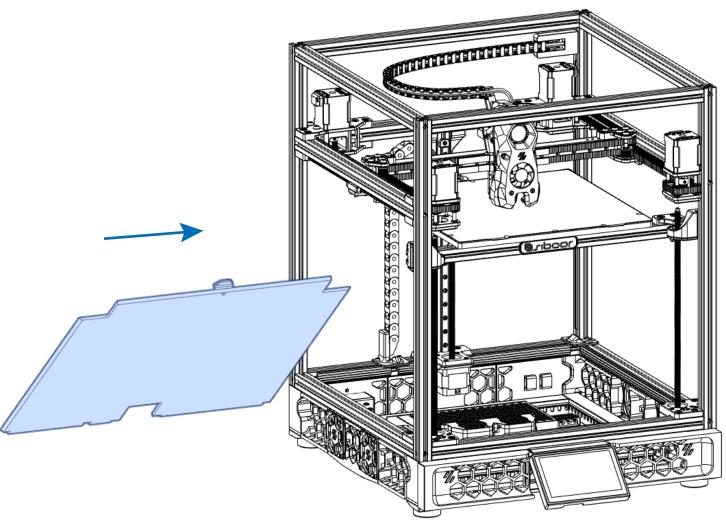








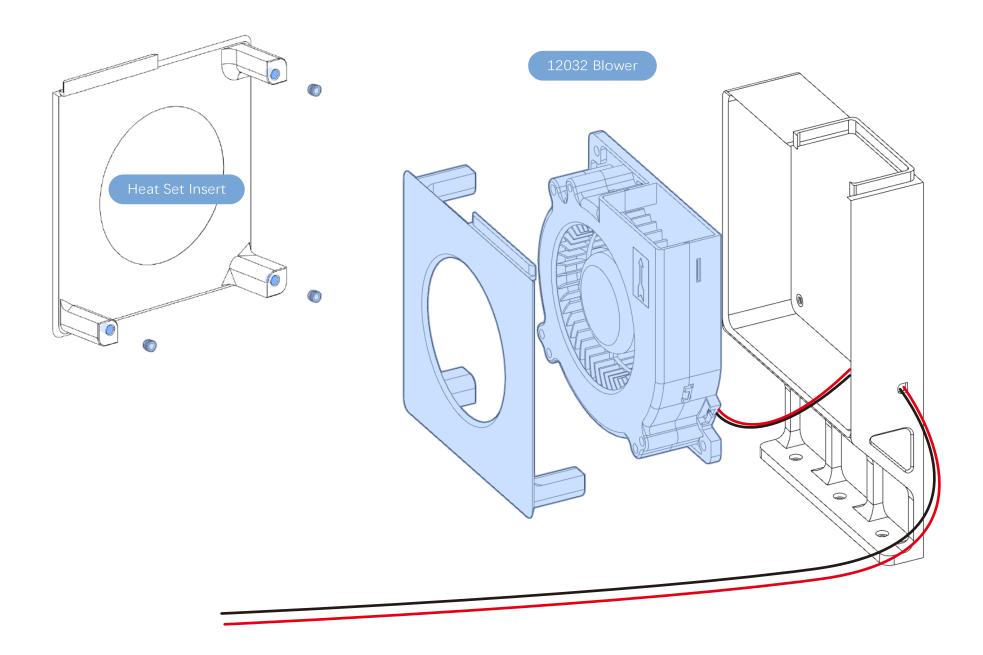
It's pretty cool, right? We can open the electrical compartment without flipping the printer, and the rubber Flat Anti-Slip Strip also provides a good sealing effect.



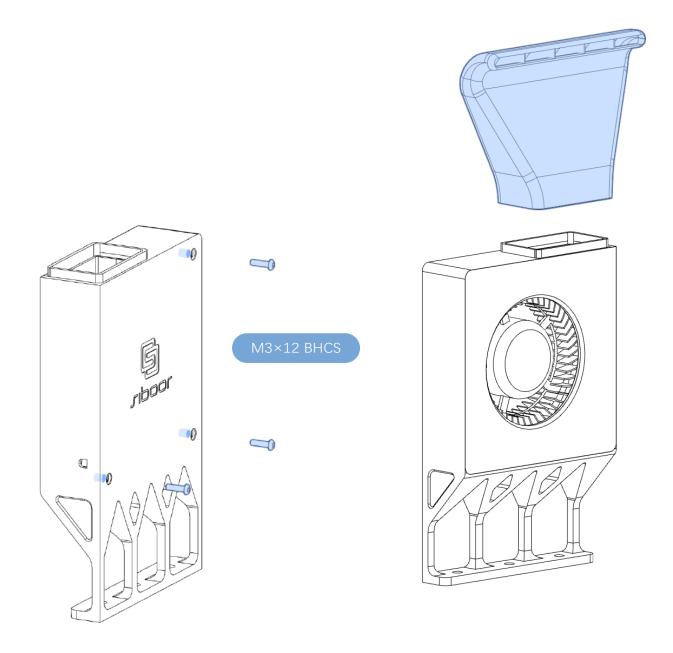
12032 PART FANS



12032 PART FANS WWW.SIBOOR.COM

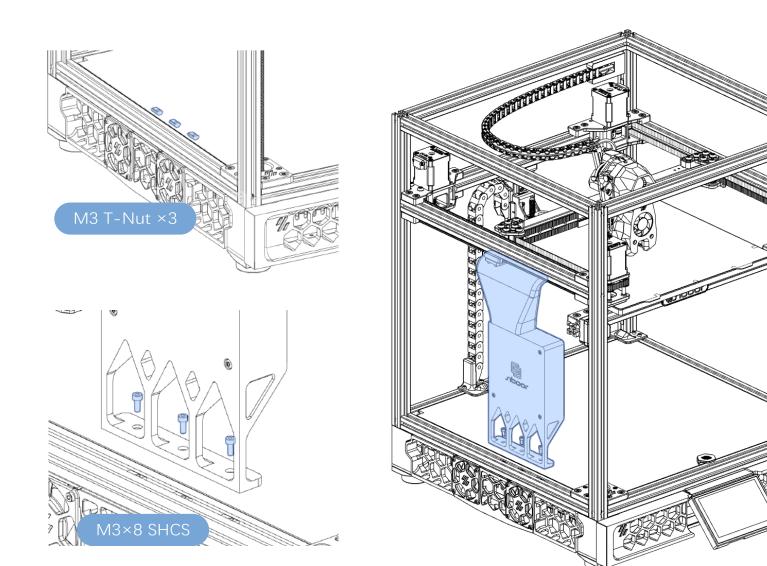


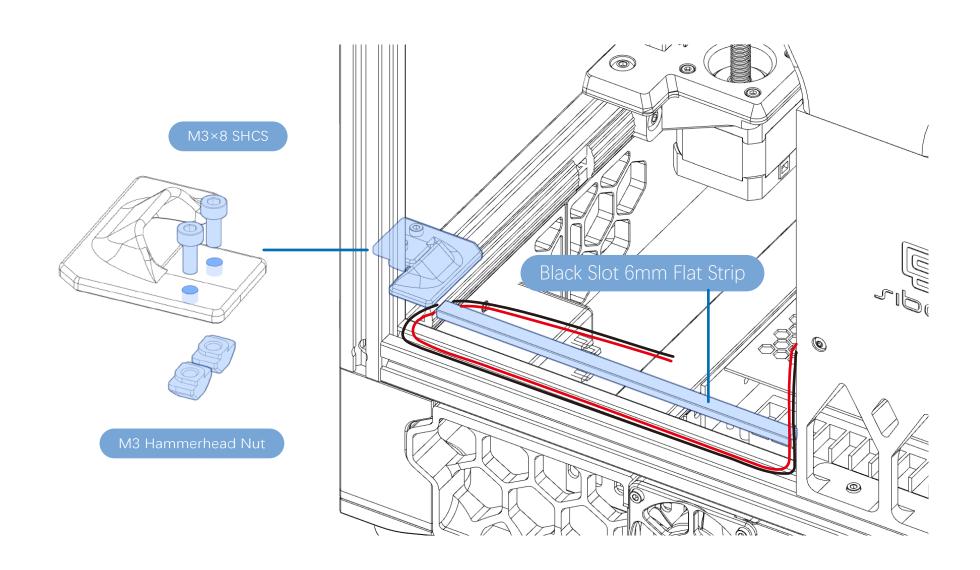
12032 PART FANS WWW.SIBOOR.COM



208 — 207

12032 PART FANS WWW.SIBOOR.COM



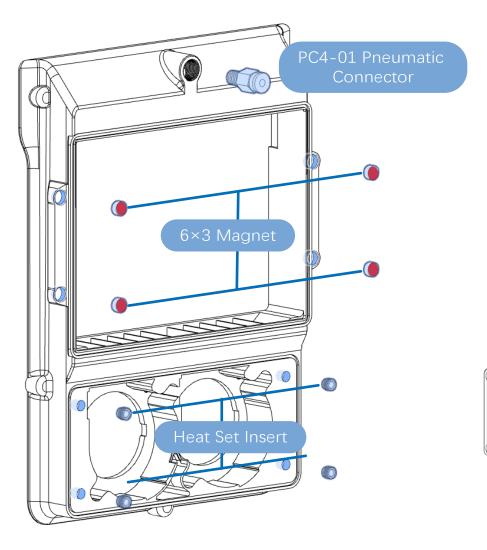


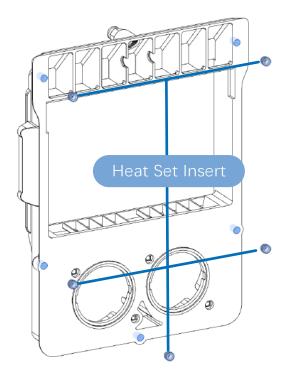


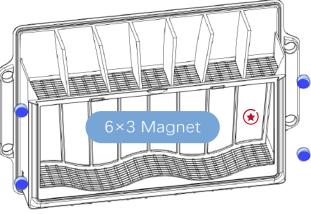


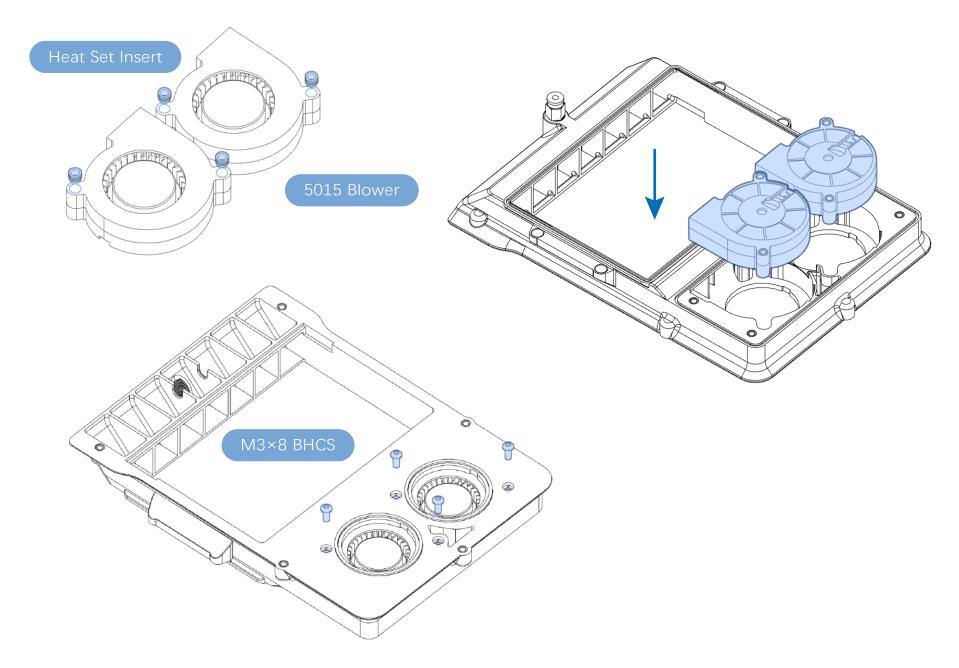
IMPORTANT NOTICE

Ensure to distinguish the poles of the round magnets; otherwise, the filter bag will not attach to the main body of the filter module.



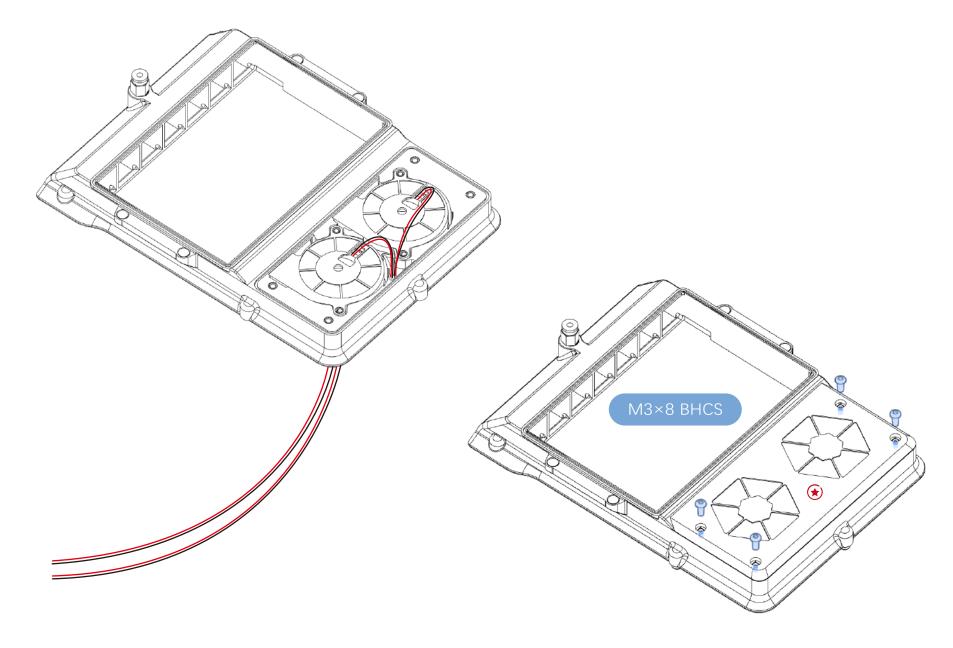




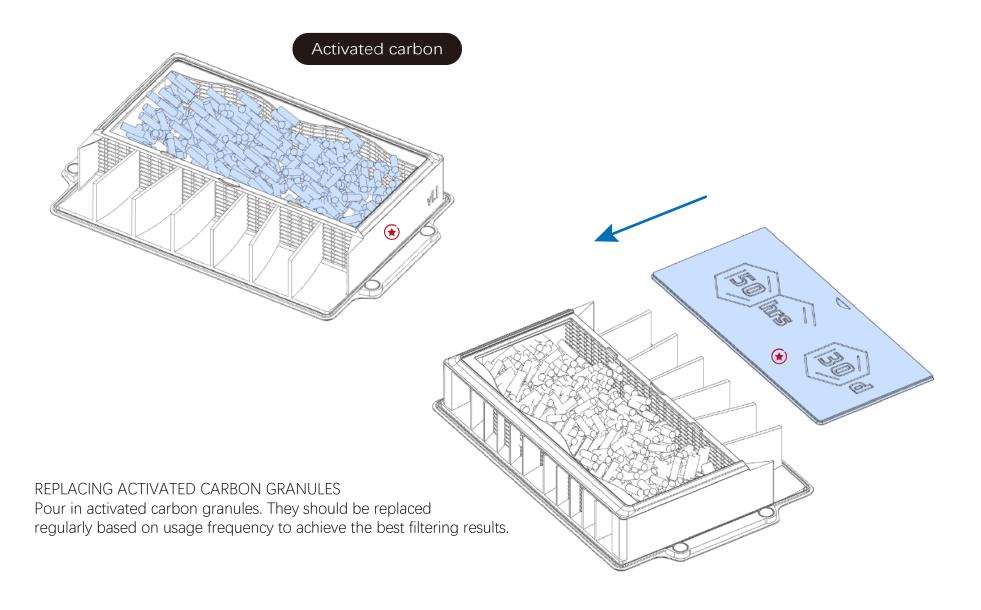


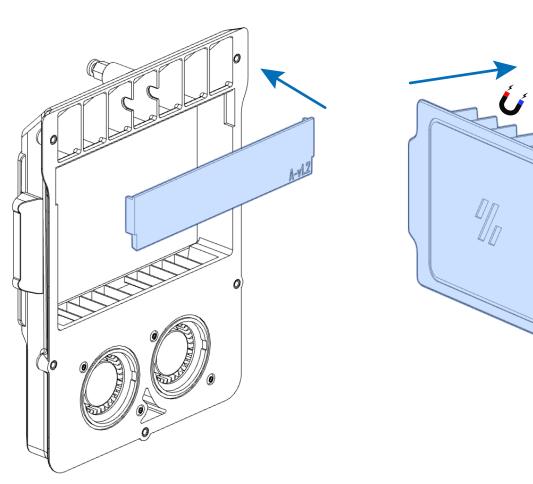
WWW.SIBOOR.COM

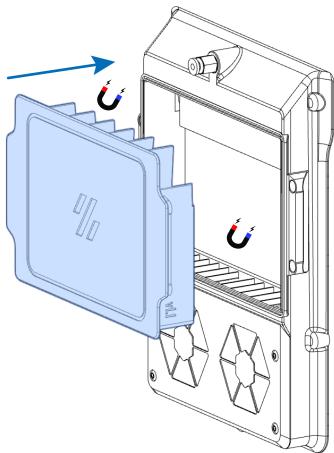
FUME PACK WWW.SIBOOR.COM

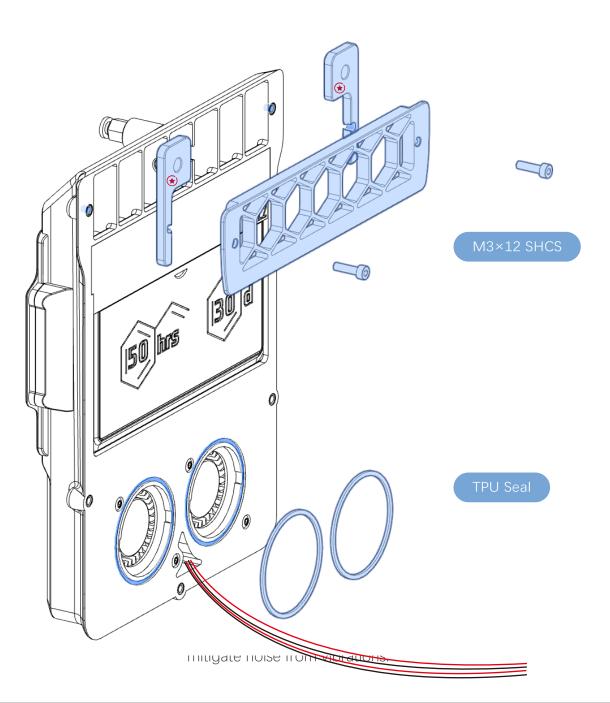


FUME PACK WWW.SIBOOR.COM

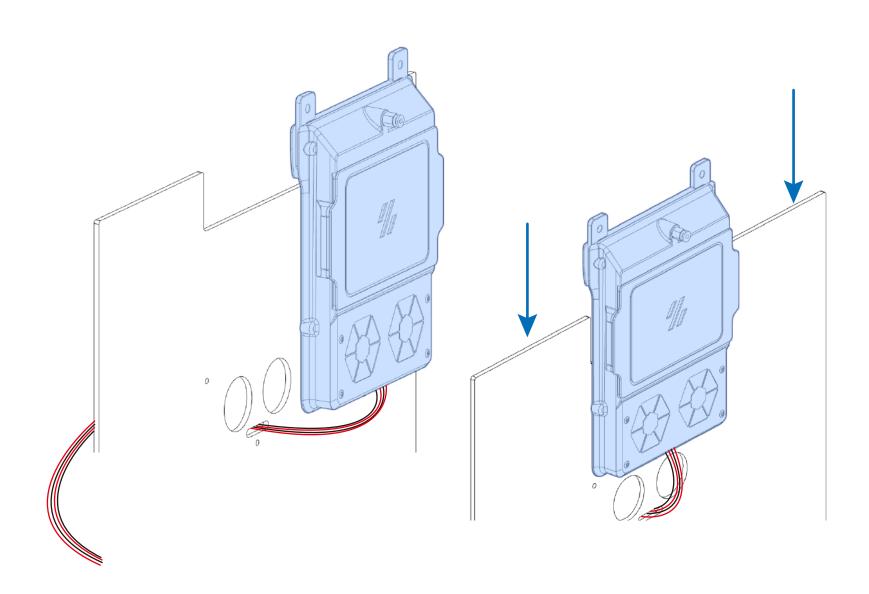




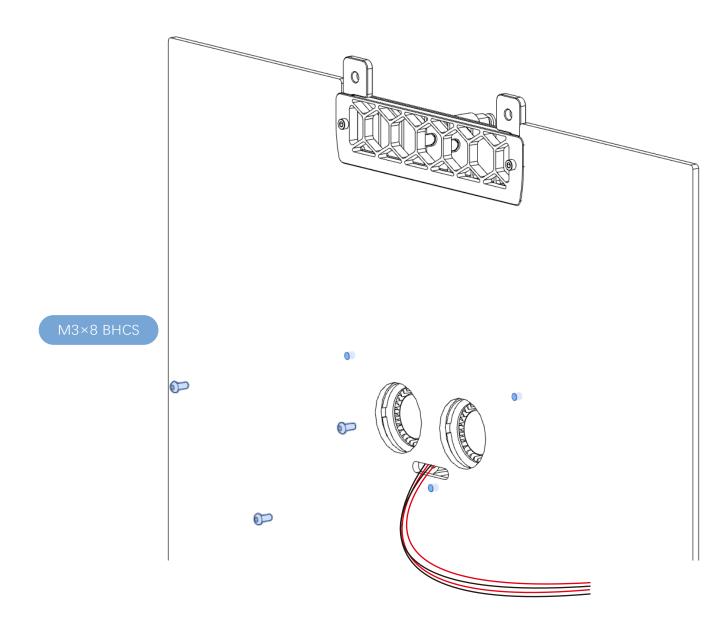




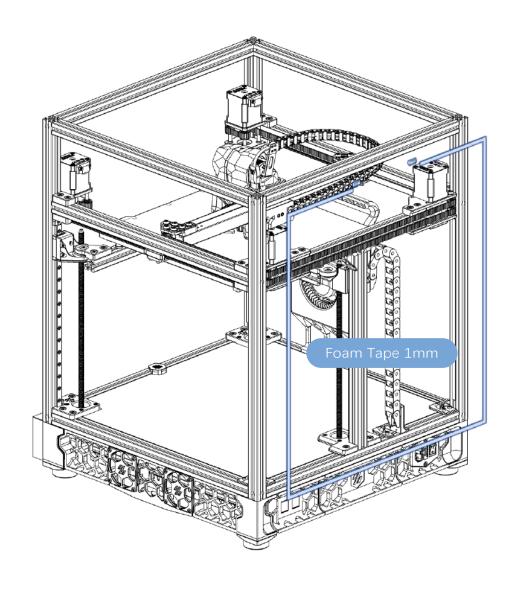
FUME PACK

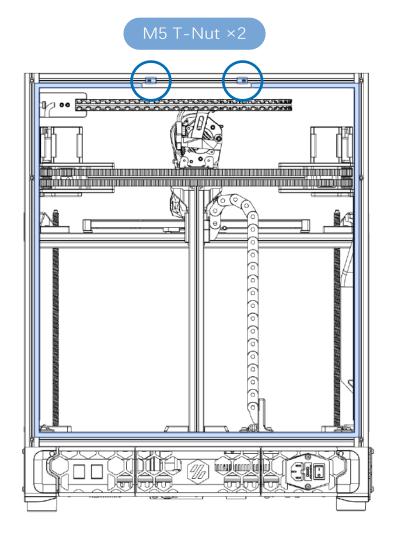


FUME PACK-WIRING

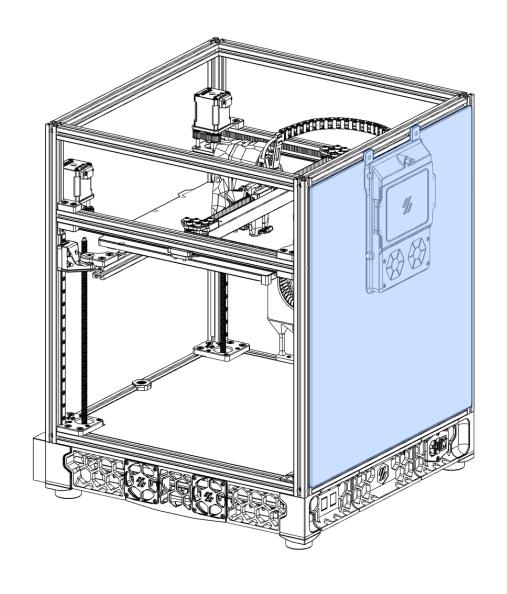


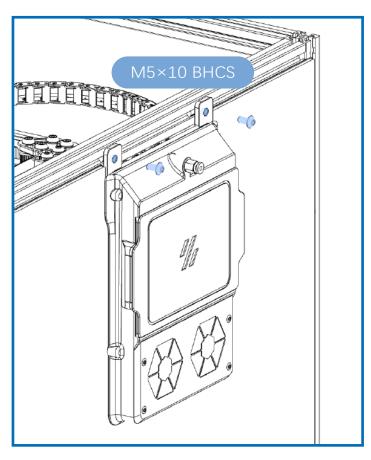
FUME PACK

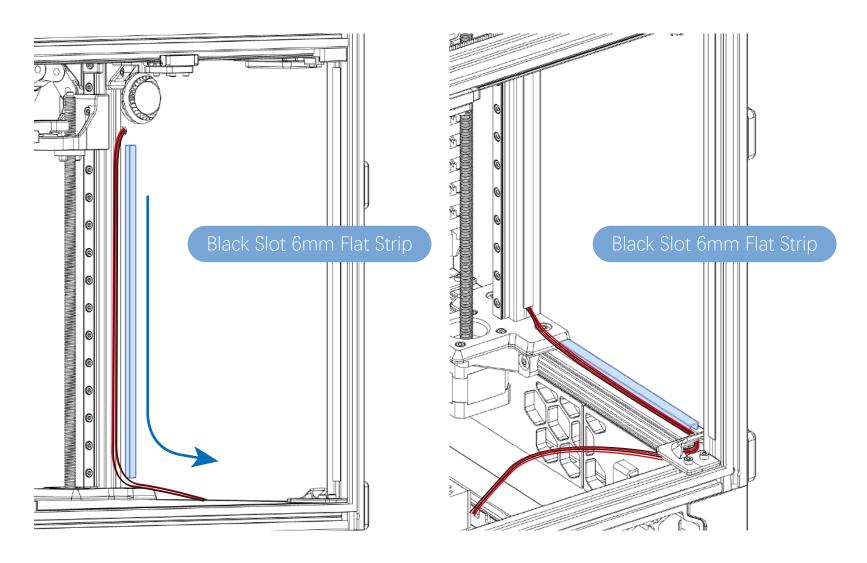




FUME PACK

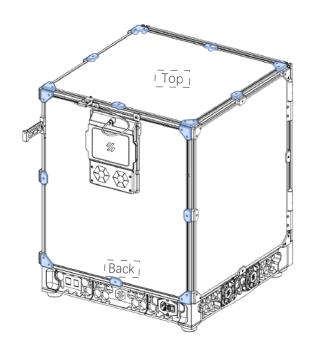


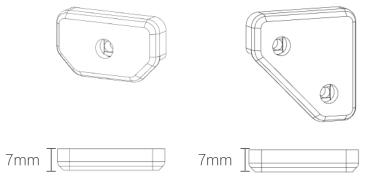


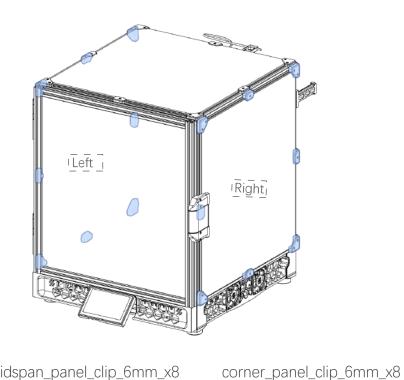


CLOSE THE CABLE MANAGEMENT DUCT

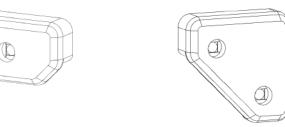
Once you have arranged the FUME PACK cables (you can refer to the routing on page 197), you can proceed to close the cable management duct.

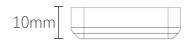






midspan_panel_clip_6mm_x8



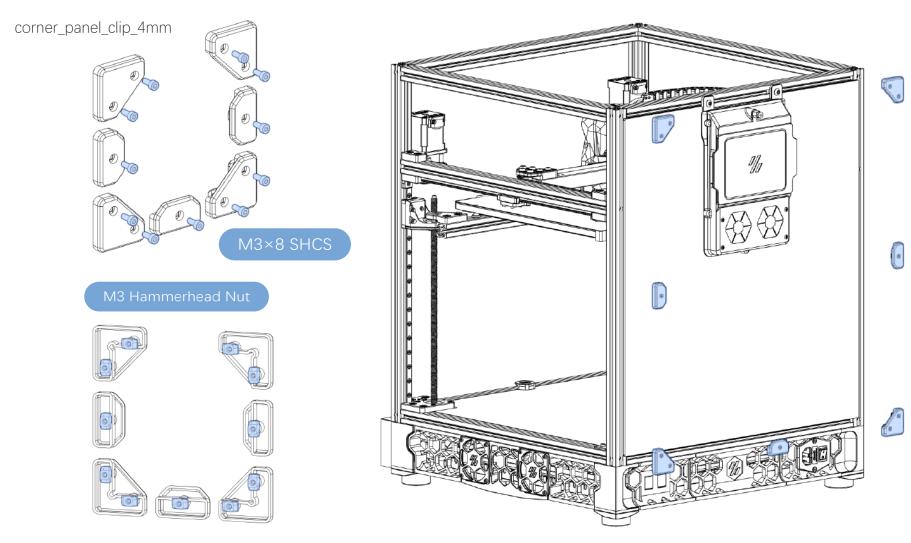






FUME PACK WWW.SIBOOR.COM

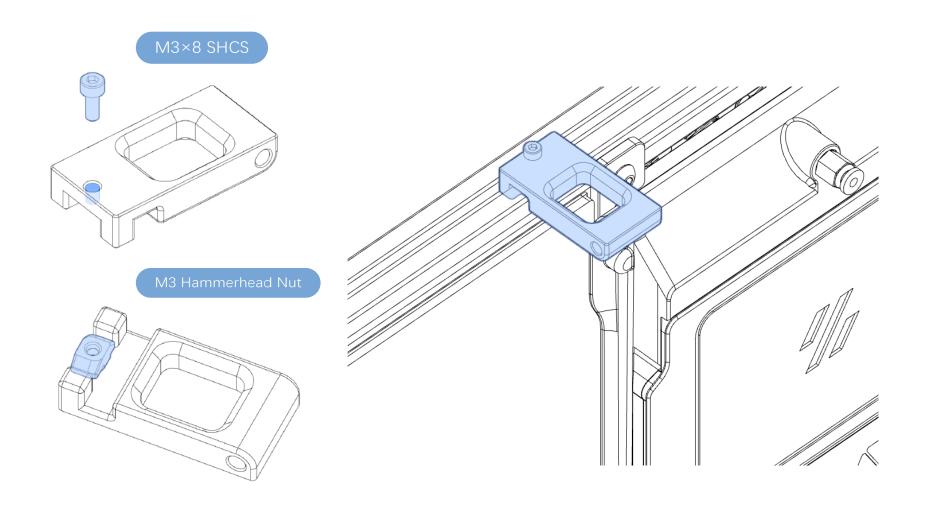
midspan_panel_clip_4mm



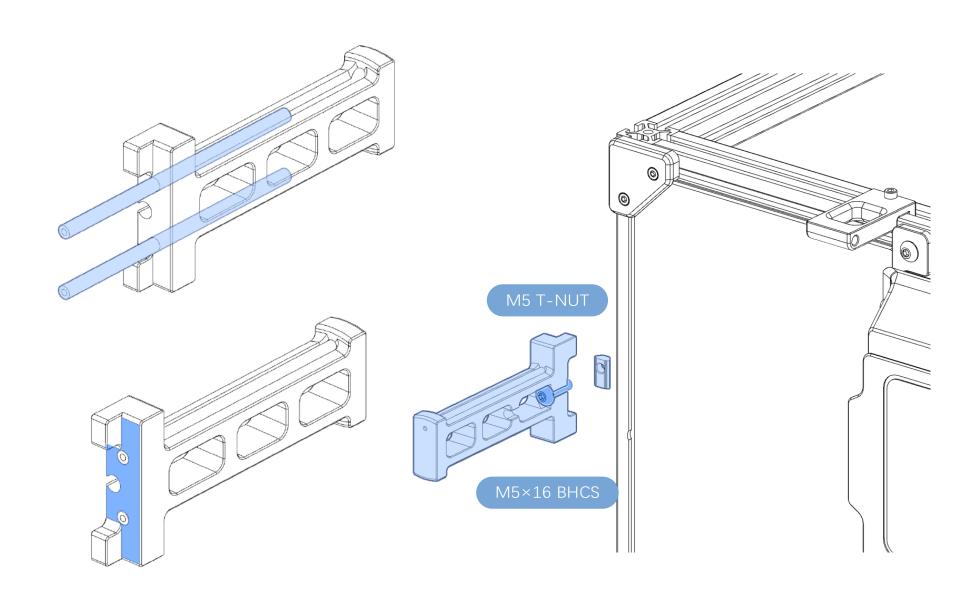
HAMMERHEAD NUTS?

A drop of thread locker will turn the hammerhead nuts into a 1/4 turn quick release for the panels. Best done once the assembly is finished.

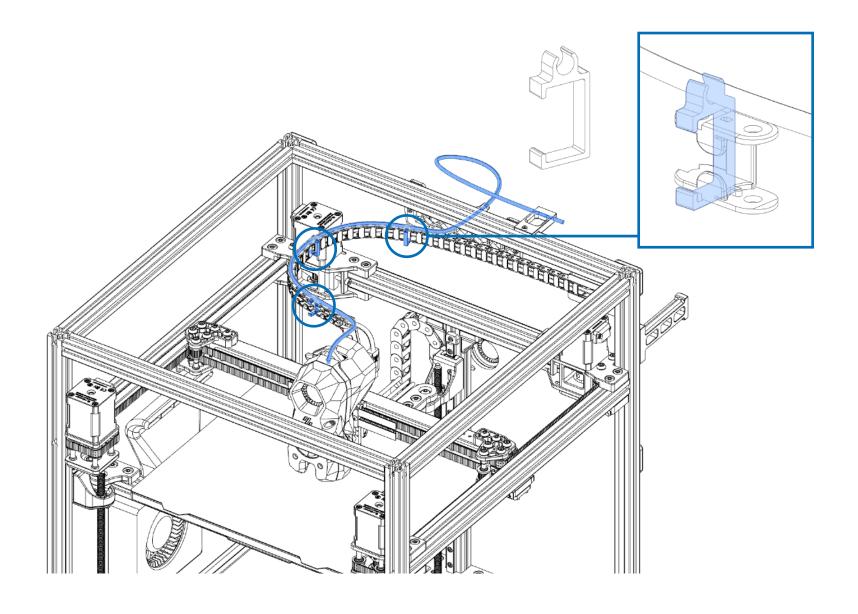
SPOOL HOLDER



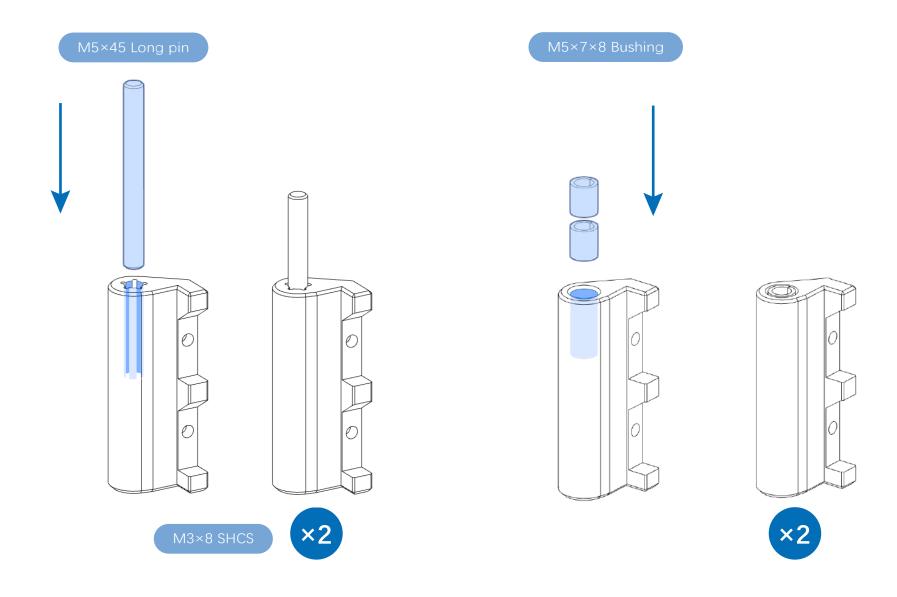
SPOOL HOLDER

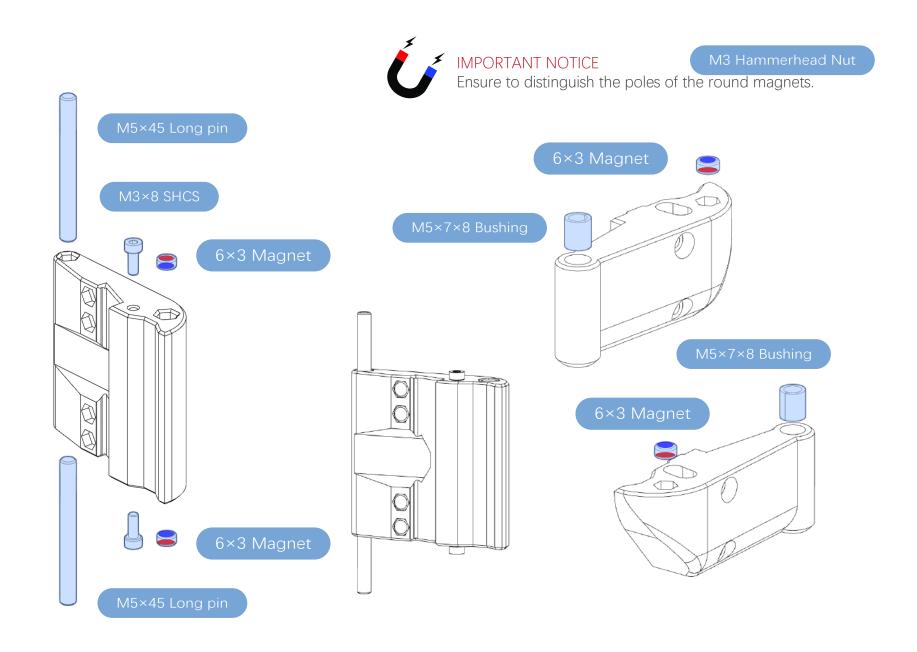


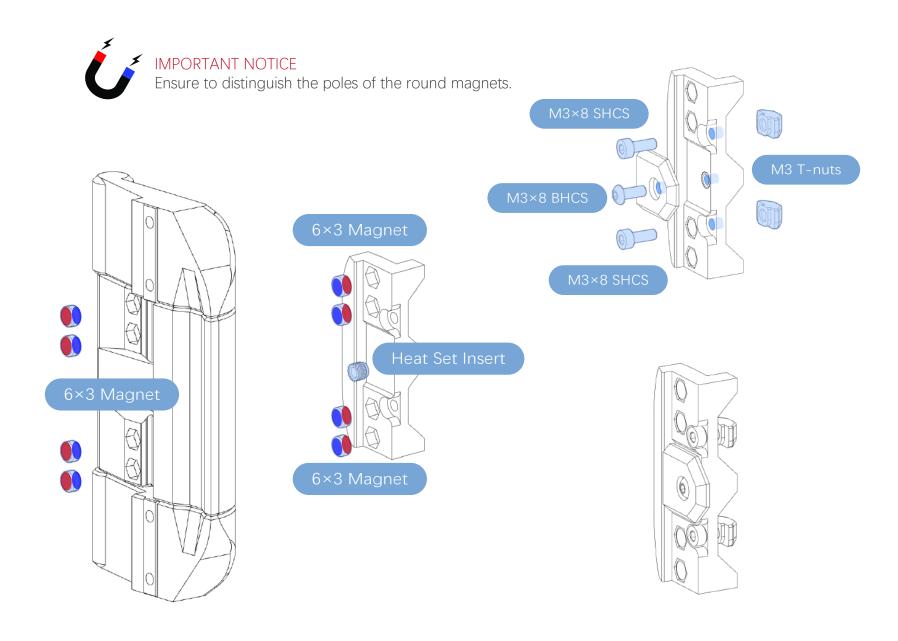
SPOOL HOLDER WWW.SIBOOR.COM



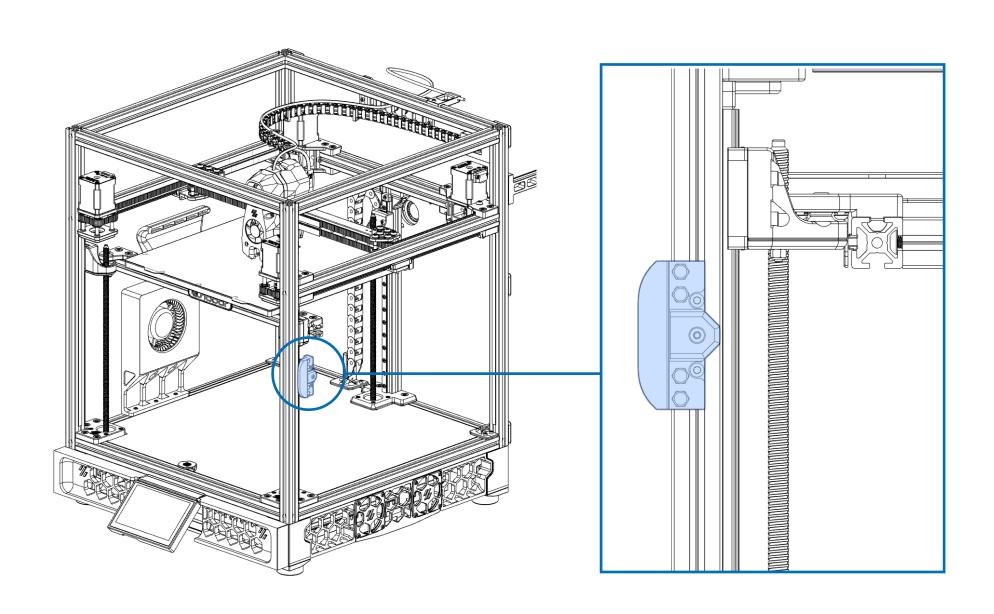




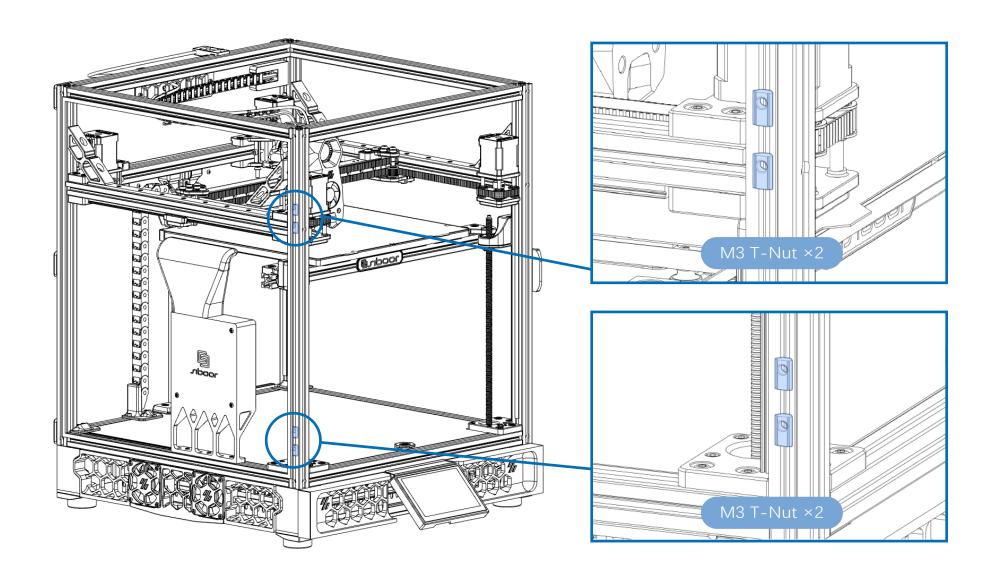


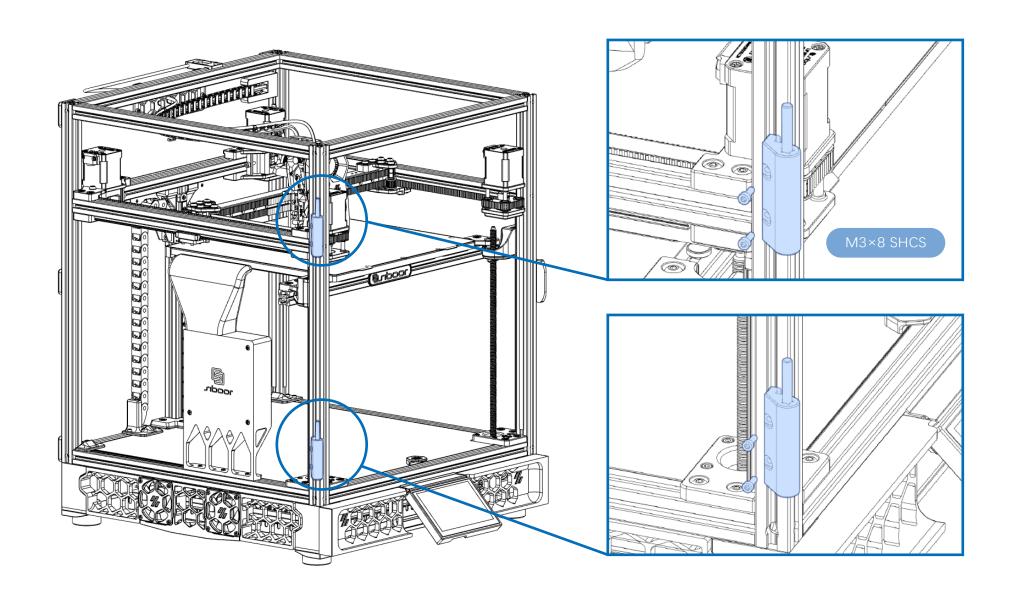


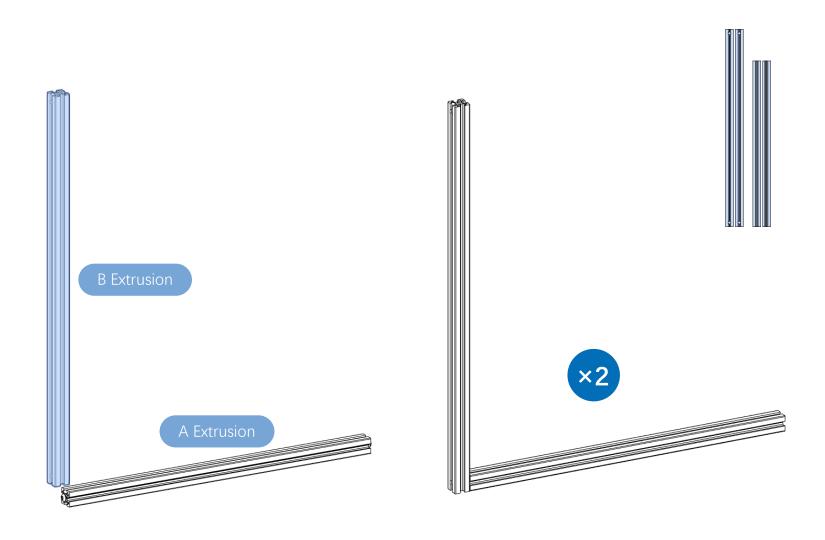
WWW.SIBOOR.COM

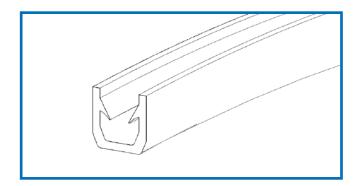


CLICKYCLACKY DOOR WWW.SIBOOR.COM

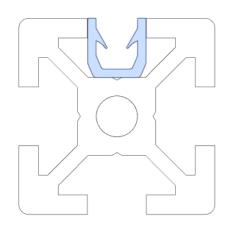


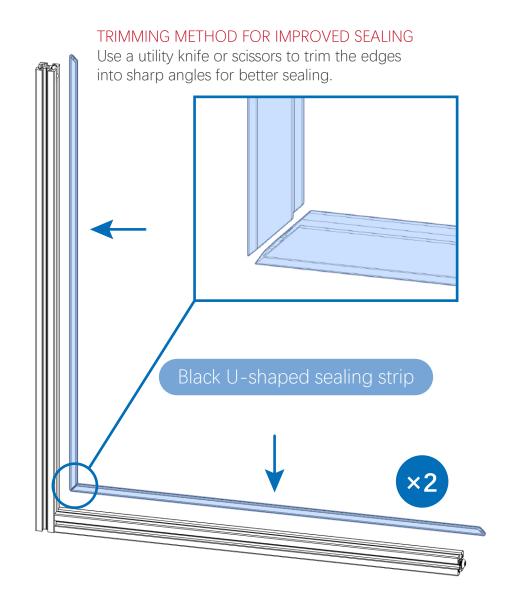


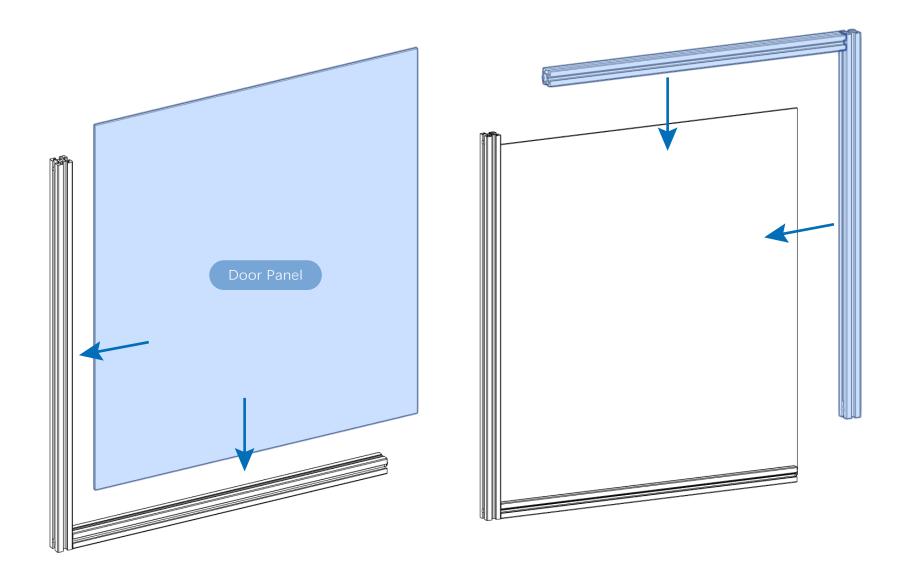


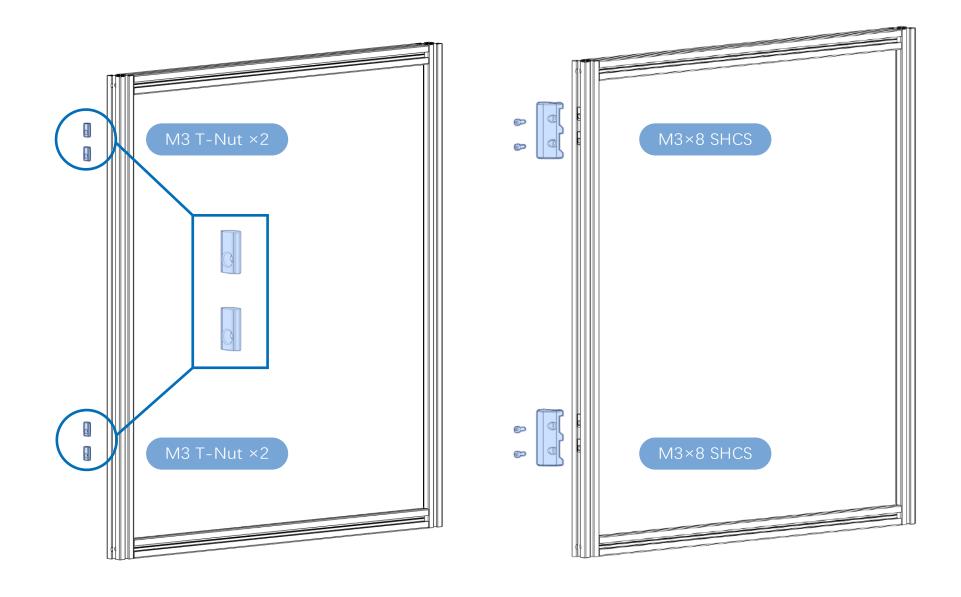


Black U-shaped sealing strip

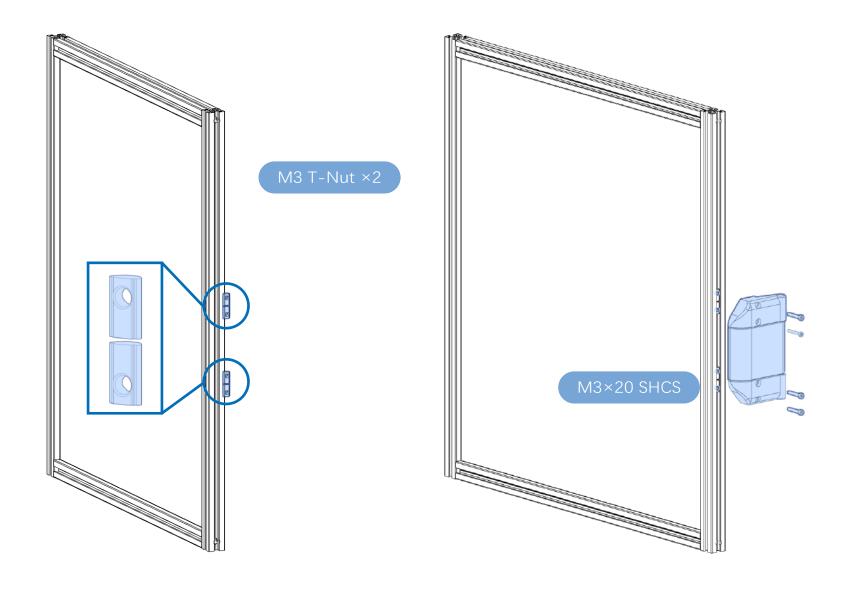


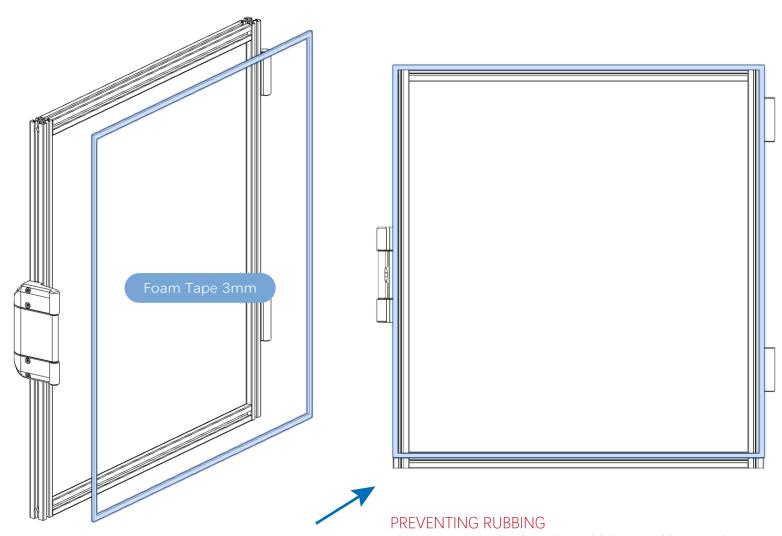






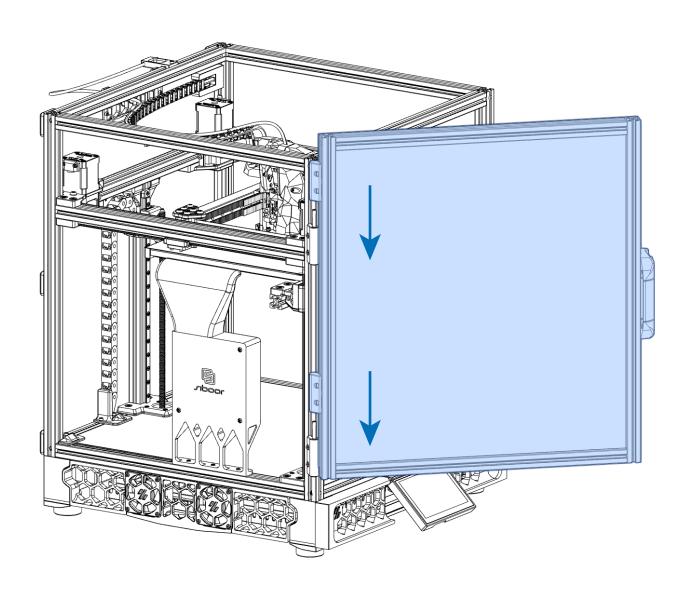
CLICKYCLACKY DOOR WWW.SIBOOR.COM



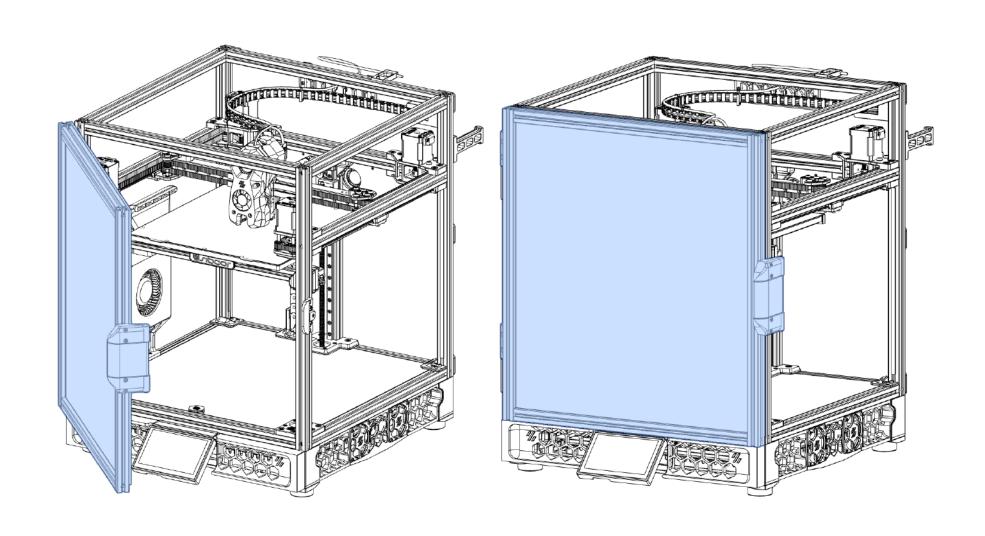


The Foam Tape is placed at a higher position on the extrusion to prevent it from rubbing against the skirt net.

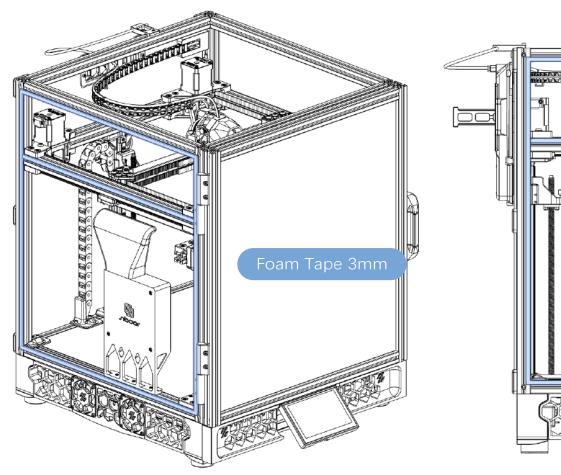
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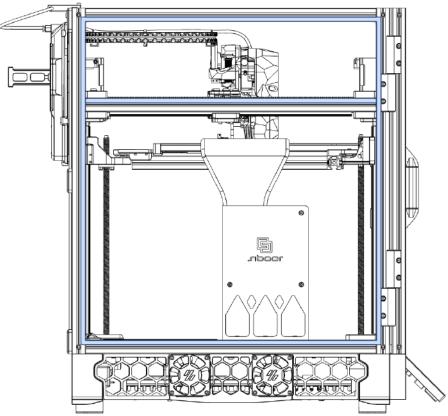








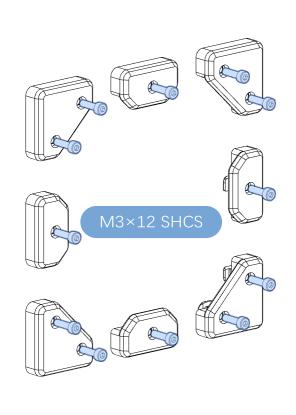
Use 3mm foam tape on the contact areas between the panels and the frame to mitigate noise from vibrations.



APPLYING FOAM TAPE TO THE RIGHT SIDE

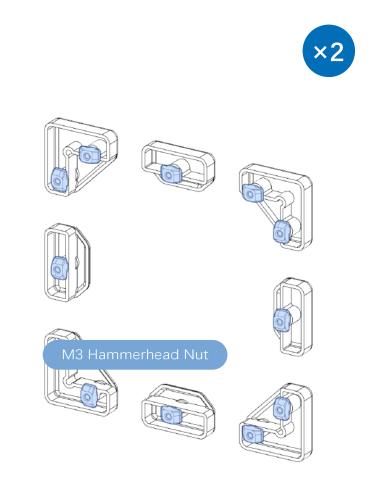
Apply Foam Tape (3mm) to the right side of the printer in the same manner. This step is not repeated here.

If you have purchased the REINFORCEMENT and CNC Metal Diagonal Rod, now is the time to install them. Please refer to pages 243-245.

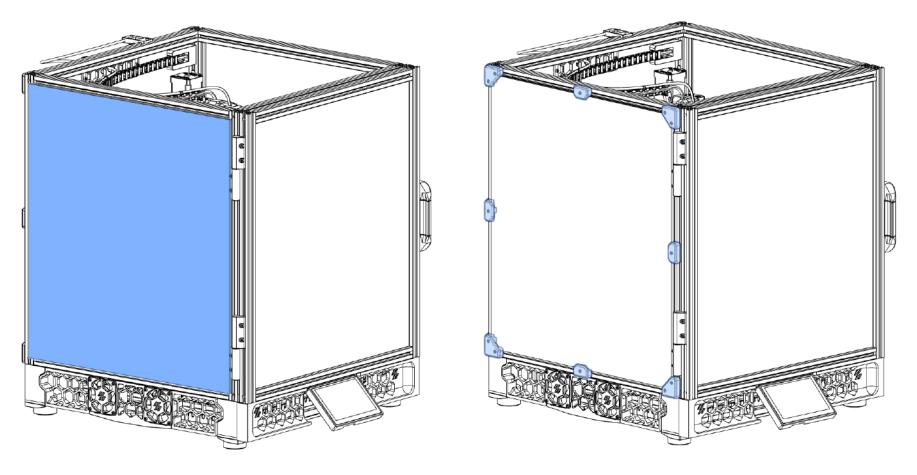


midspan_panel_clip_6mm

corner_panel_clip_6mm

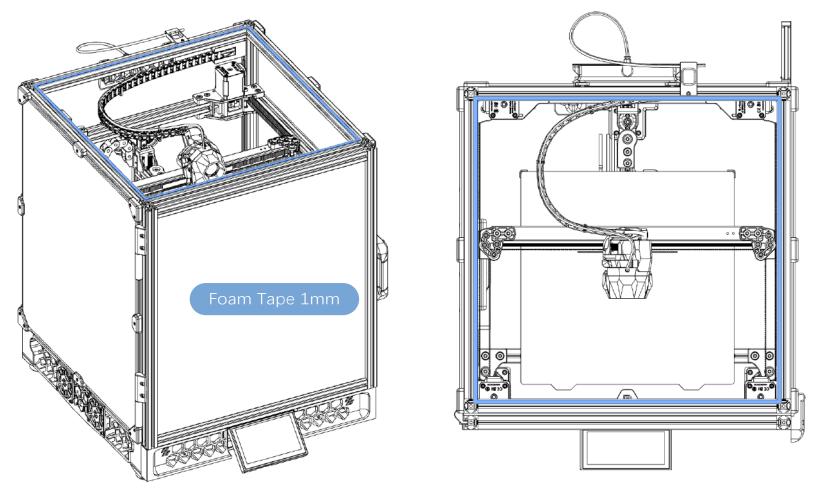


PANELS



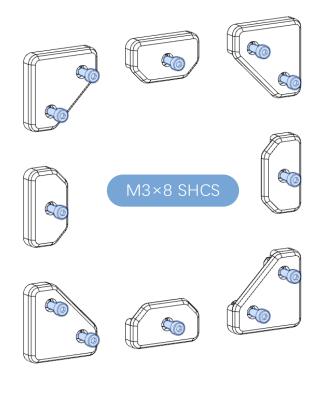
APPLYING FOAM TAPE TO THE RIGHT SIDE

Apply Foam Tape (3mm) to the right side of the printer in the same manner. This step is not repeated here.



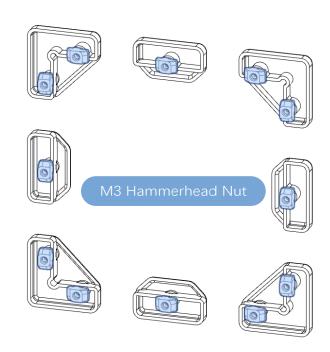
APPLY FOAM TAPE

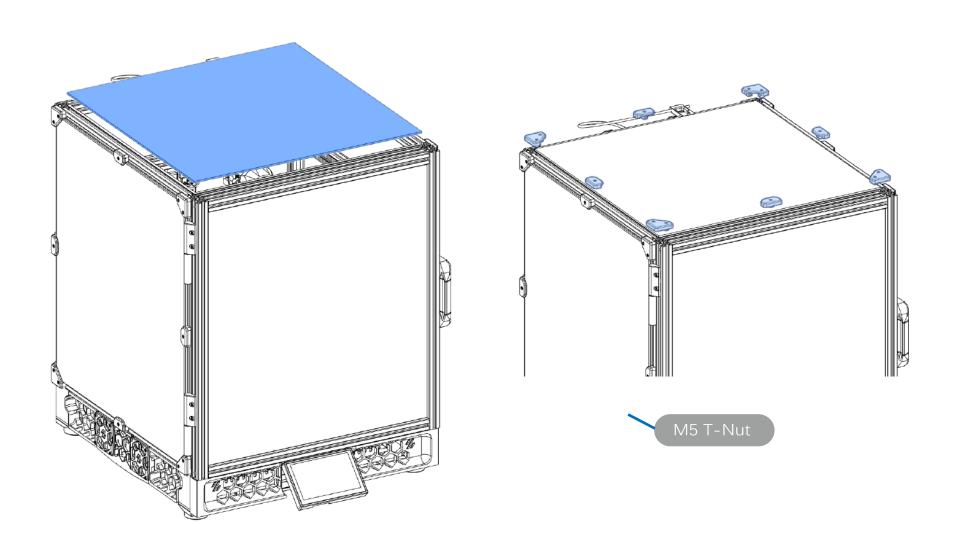
Use 1mm foam tape on the contact areas between the panels and the frame to mitigate noise from vibrations.



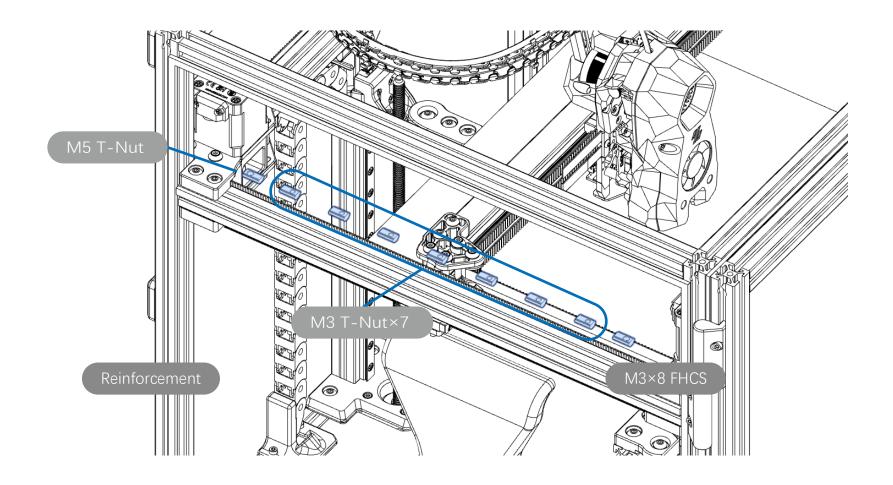
midspan_panel_clip_4mm

corner_panel_clip_4mm

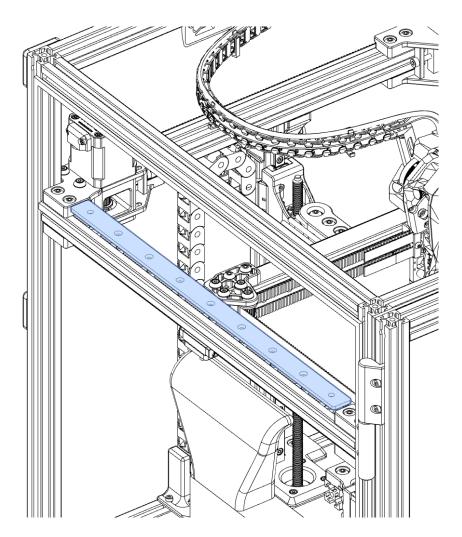


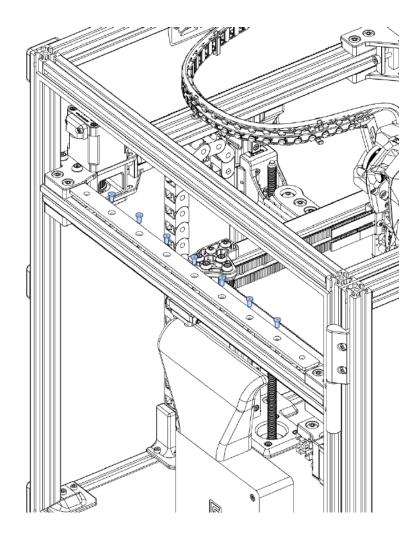


The products displayed on this page are not included in the standard package. If you have not purchased additional items, please skip this section.

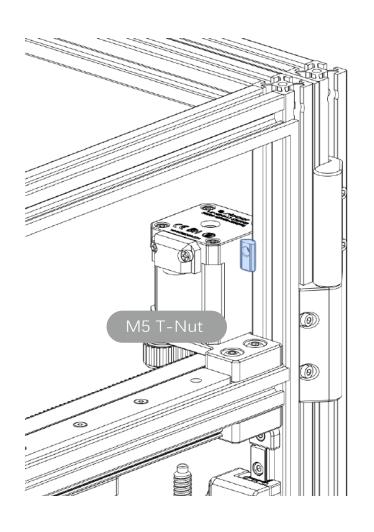


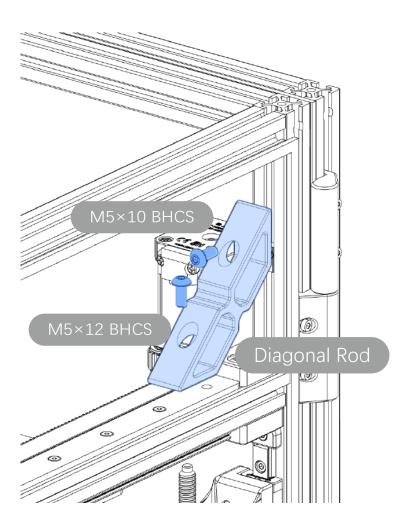
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