

SWITCHWIRE ASSEMBLY MANUAL

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

VERSION 2023-7-18



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

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

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

Most of all, good luck!

THE VORON TEAM

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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

LAYER HEIGHT

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

PRINT IT FORWARD (PIF)

Often times our community members have issues printing ABS will bootstrap themselves into a VORON using our Print It Forward program. This is a service where approved members with VORON printers can make you a functional set of parts to get your own machine up and running. Check Discord if you have any interest in having someone help you out.

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.

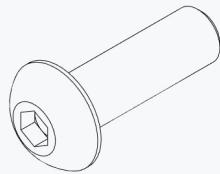
**DISCORD**<https://discord.gg/voron>**THIS IS JUST A REFERENCE**

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

GitHub<https://github.com/vorondesign>The logo for DOCS, featuring three red diagonal bars of increasing length followed by the word "DOCS" in a bold, black, sans-serif font.
DOCS<https://docs.vorondesign.com>

HARDWARE

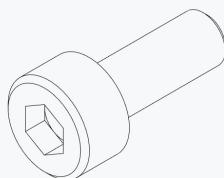
VORONDESIGN.COM



BUTTON HEAD CAP SCREW (BHCS)

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

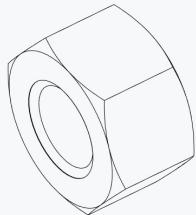
ISO 7380-1



SOCKET HEAD CAP SCREW (SHCS)

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

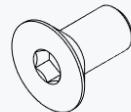
ISO 4762



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.

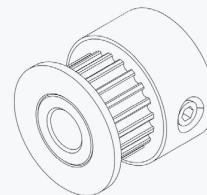
ISO 4032



FLAT HEAD COUNTERSUNK SCREW (FHCS)

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

ISO 10642



PULLEY

GT2 pulley used on the motion system of the Voron.



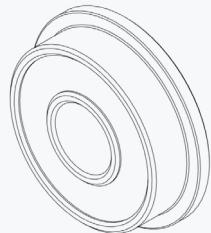
SHIM

Not to be confused with stamped washers. These are used in all M5 call-out locations in this manual.

DIN 988

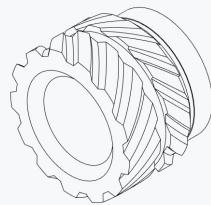
HARDWARE

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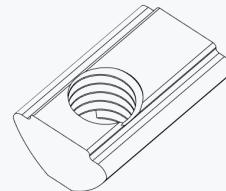
F695 BEARING

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



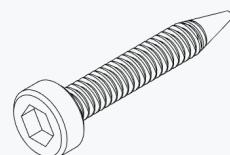
HEAT SET INSERT

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.



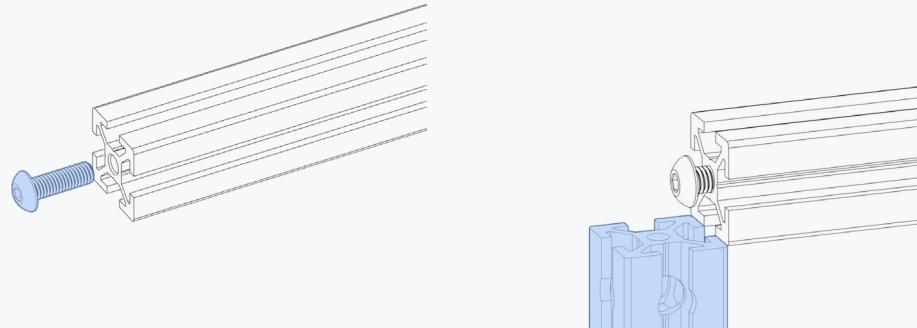
POST INSTALL T-SLOT NUT

Nut that can be inserted into the slot of an aluminium profile. Used in both M3 and M5 variants throughout this guide.



SELF TAPPING SCREW

Fastener with a pronounced thread profile that is screwed directly into plastic.



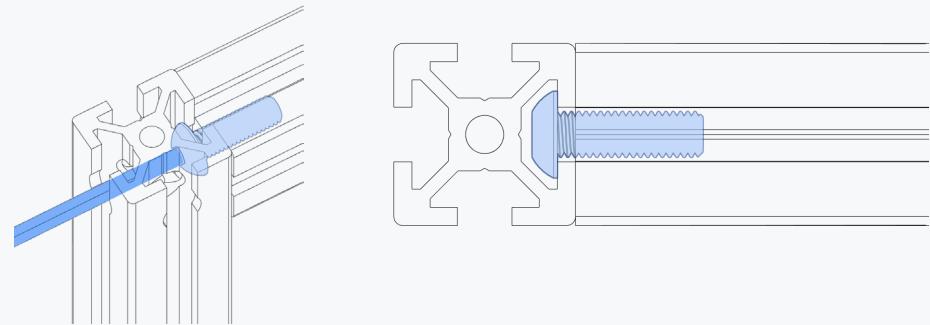
BLIND JOINT BASICS

Blind Joints provide a cost effective and rigid assembly method.

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

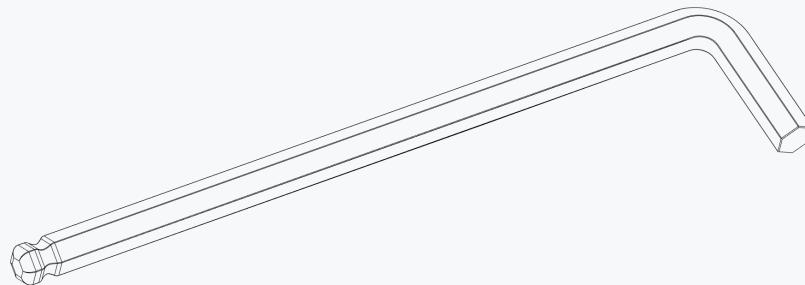


<https://voron.link/onjwmcd>



BALL-END DRIVER

Some parts of this design require the use of a ball-end hex driver for assembly. We recommend you get a 2.5mm and 3mm one.



2.5MM HEX DRIVER

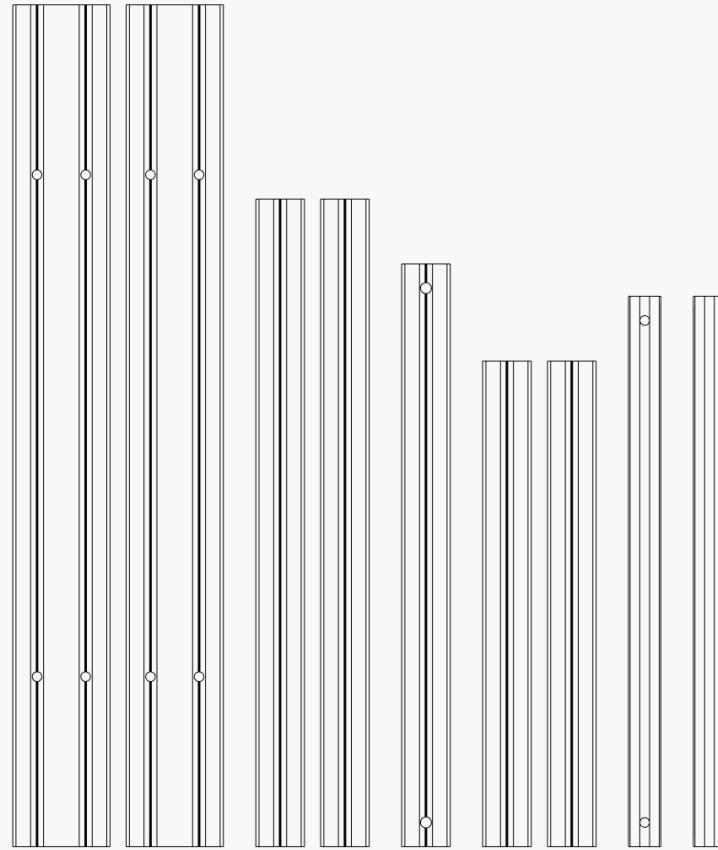
The 2.5mm hex driver will see a lot of use in this build. A quality driver is strongly recommended. Refer to the sourcing guide for suggestions.



FRAME

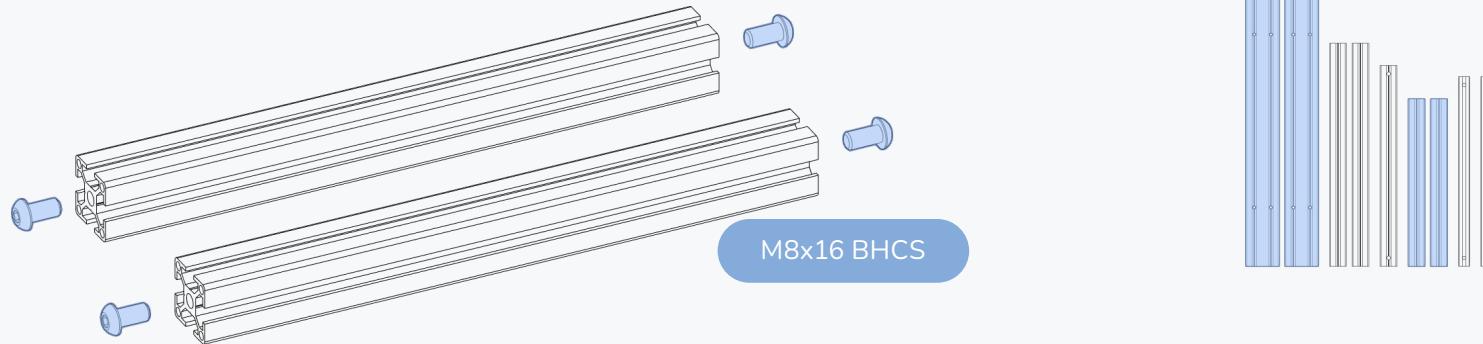
VORONDESIGN.COM





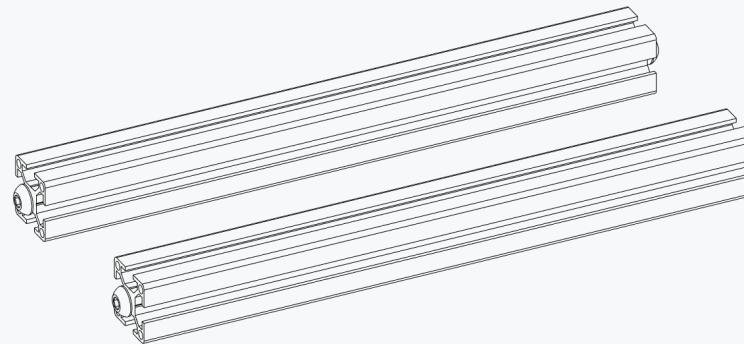
GETTING EXTRUSIONS TOGETHER

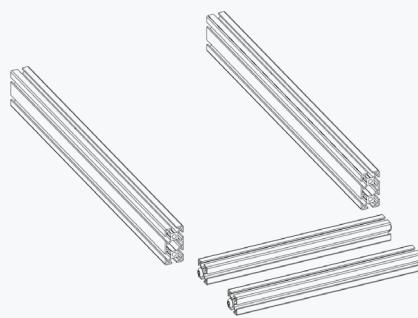
Separate the extrusions you're going to need for this section of the build. We've laid out all the parts you should have and highlighted the ones that will be used in the following sections.



BLIND JOINT BASICS

Blind Joints provide a cost effective and rigid assembly method. The head of the BHCS is slid into the channel of another extrusion and securely fastened through a small access hole in the other extrusion.





UPSIDE DOWN ASSEMBLY

For ease of assembly we often recommend to assemble components upside down. Assemble on a flat surface to ensure that the base is square.

BLIND JOINT ACCESS HOLES

Use the access holes to fasten the bolts.



FIRST BLIND JOINT

This design relies on blind joints to assemble the frame. We outlined the basics of blind joints on page 8.

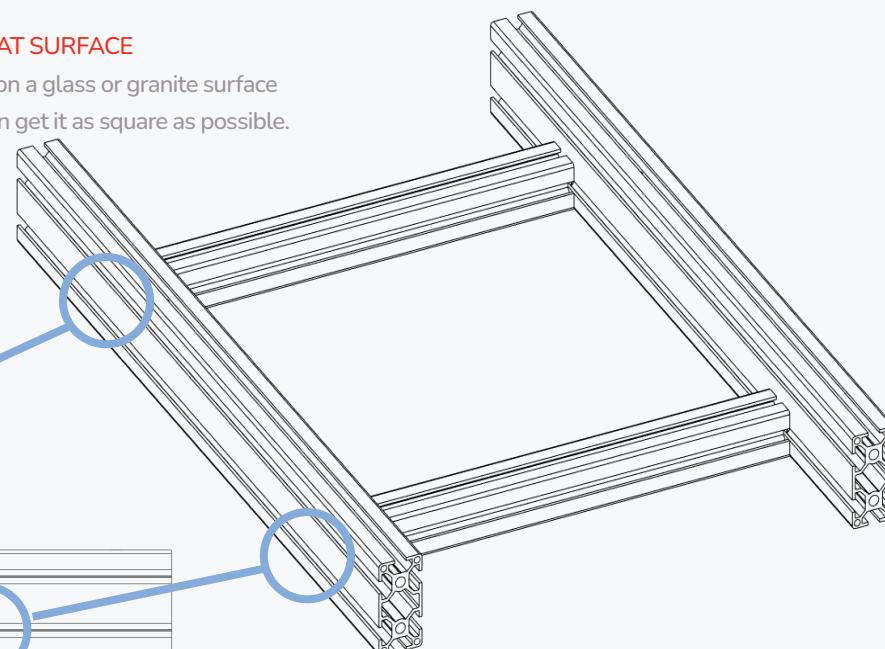
If you've never assembled one before we recommend you watch the linked guide.

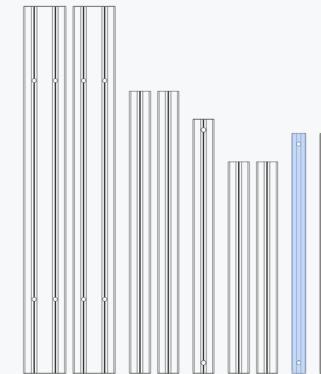
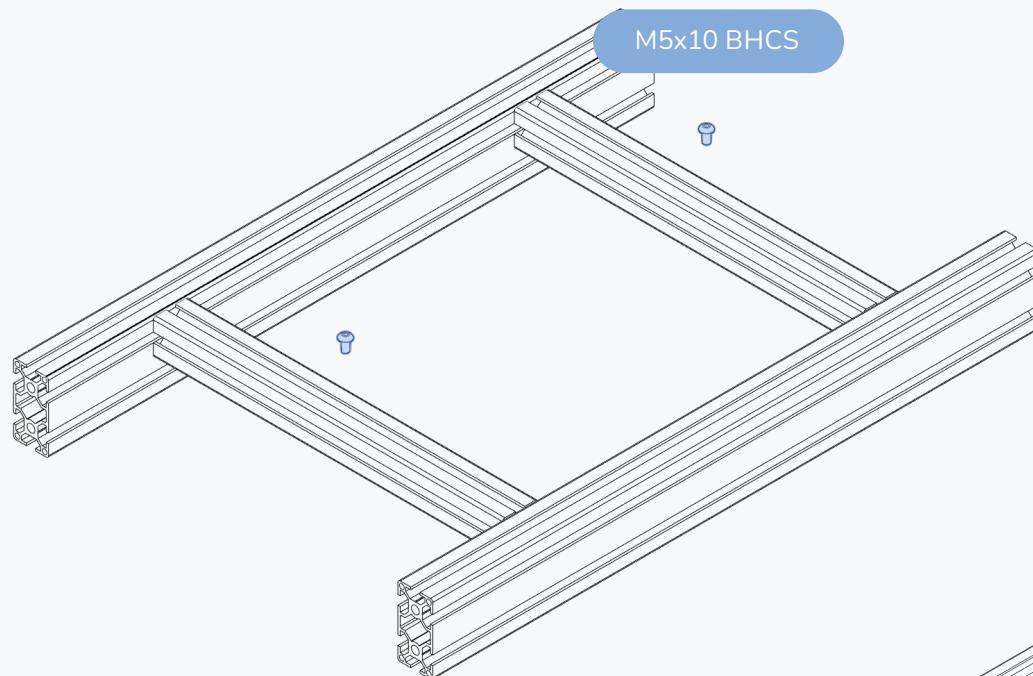


<https://voron.link/onjwmcd>

BUILD ON A FLAT SURFACE

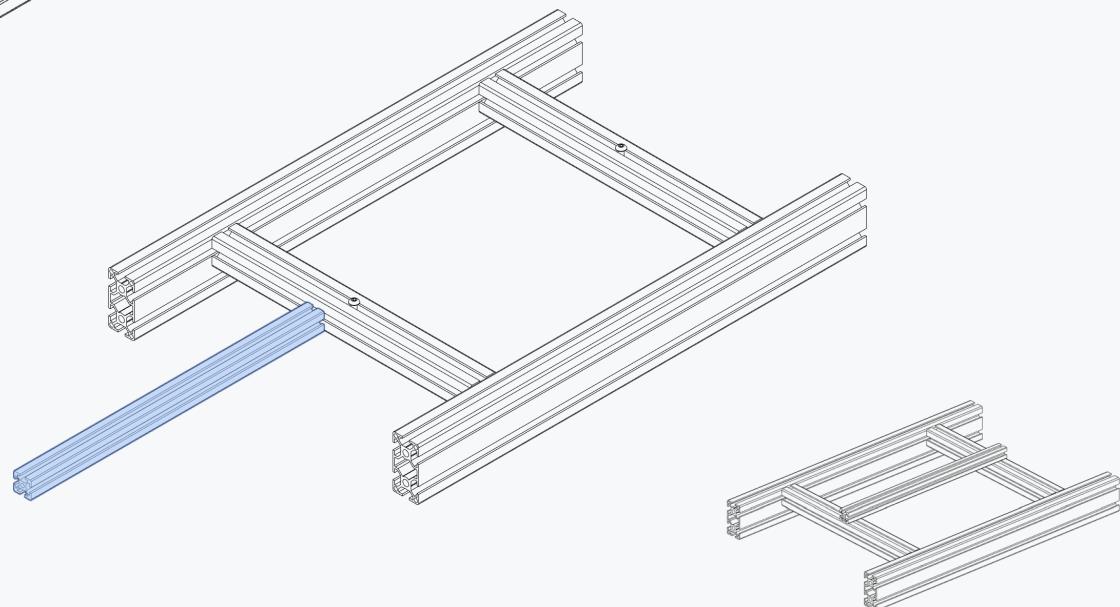
Build the frame on a glass or granite surface to ensure you can get it as square as possible.

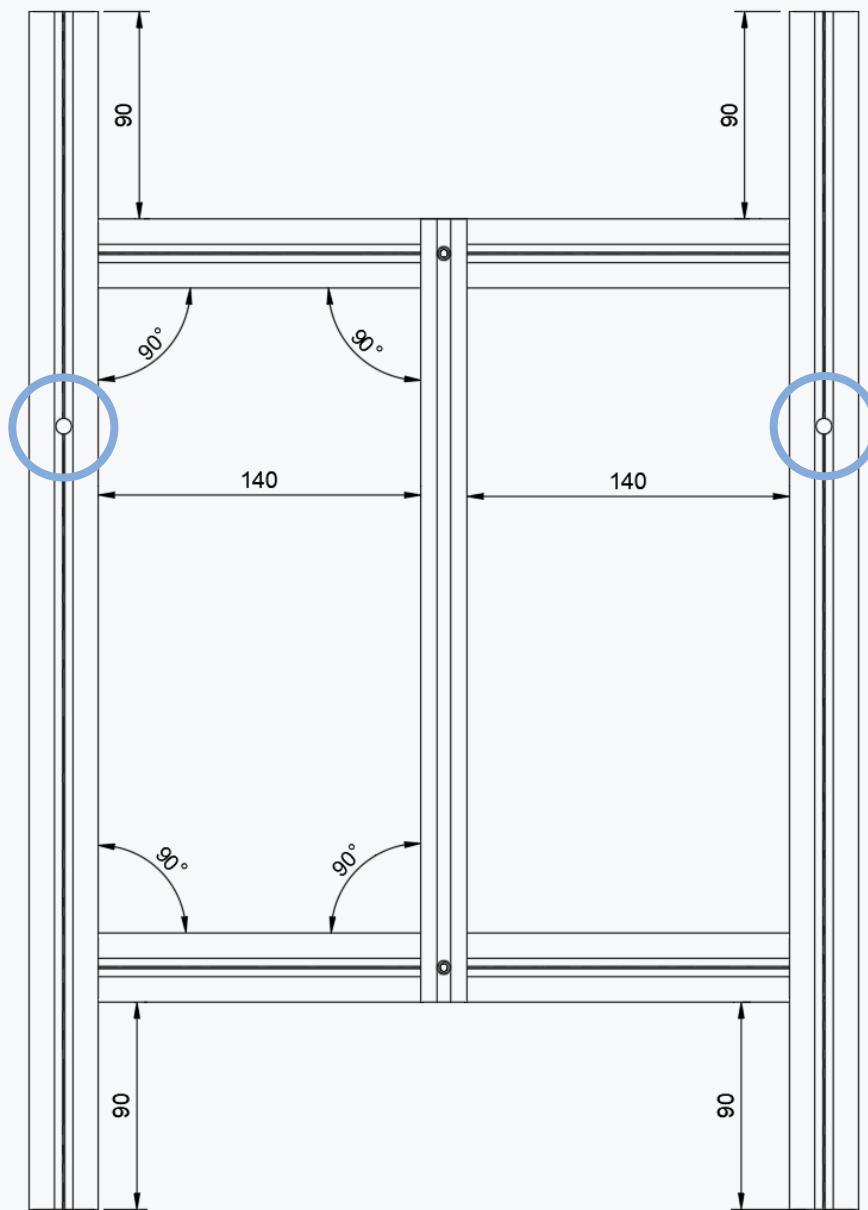


**T-NUTS?**

We don't show the insertion of T-Nuts in our assembly manuals.

The T-Nuts we recommend can be inserted at any point during the installation.



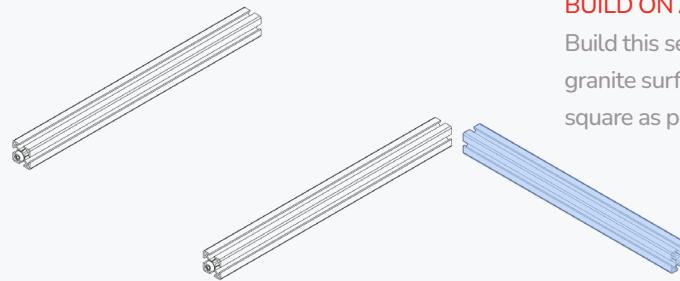
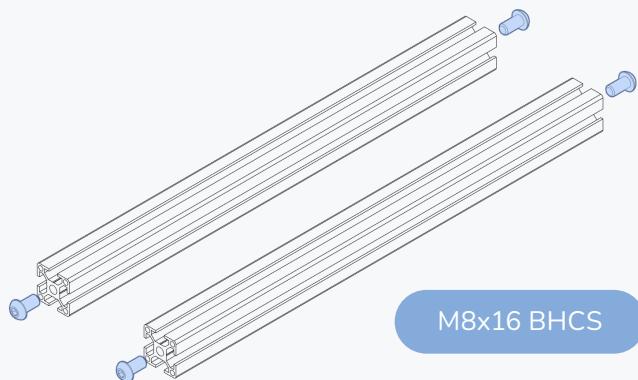


VERIFY DIMENSIONS

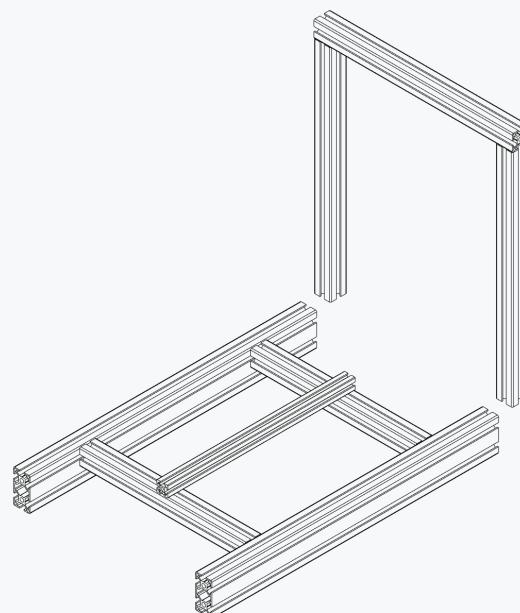
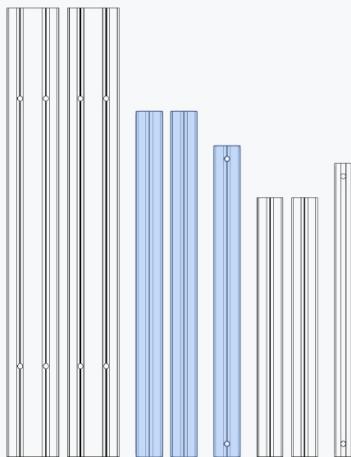
Make sure the frame is square and that all positions are set correctly before moving on. Check the 90° angles with a machinist square.

MIND ACCESS HOLE POSITION

We do our best to call out things that may bite you later in the assembly process but may skip things that seem obvious to us. If in doubt please refer to the CAD model, it might save you some considerable time down the road.

**BUILD ON A FLAT SURFACE**

Build this section of the frame on a glass or granite surface to ensure you can get it as square as possible.

**TILT FRAME 90°**

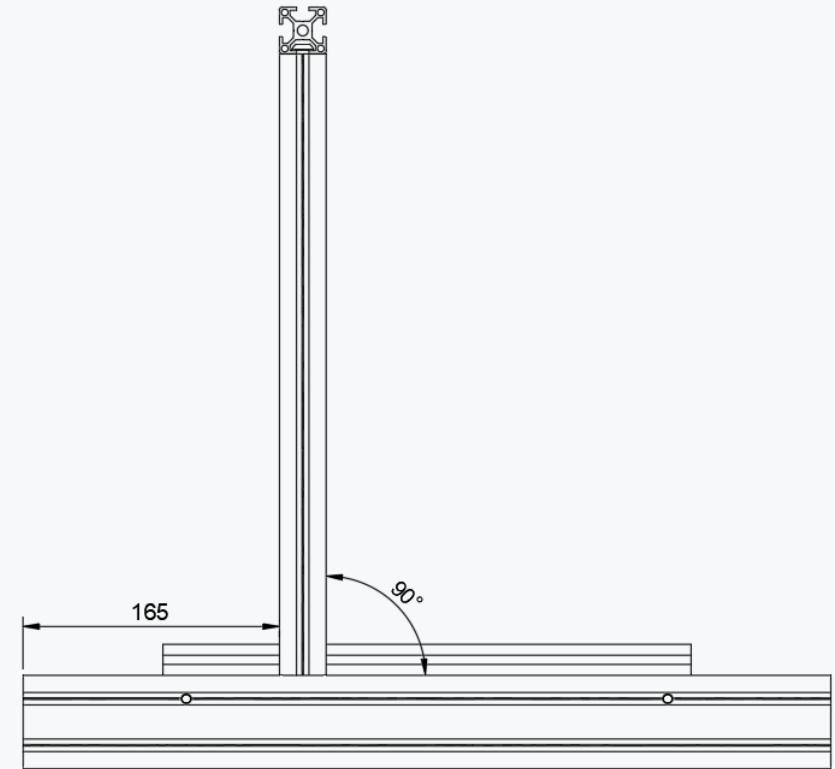
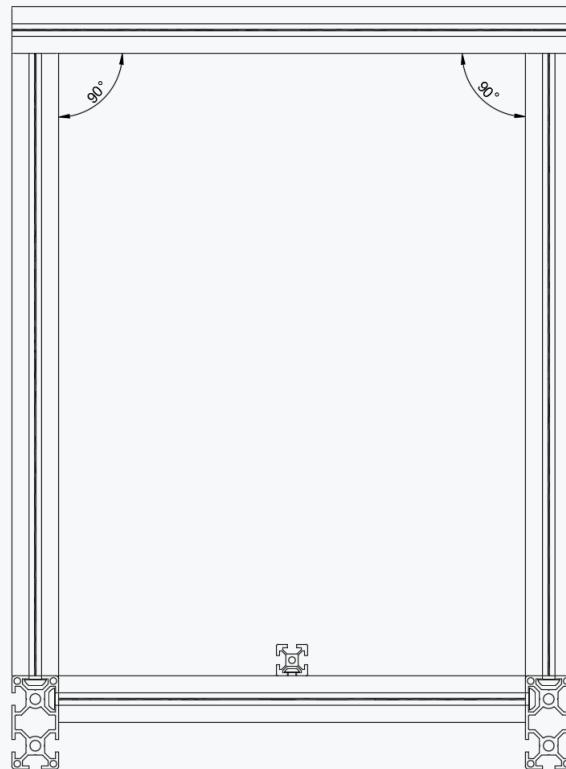
The access holes for the Blind Joints are at the bottom. Lay the frame flat on its side to access them. This also helps in mounting the uprights flush to the base.

VERIFY DIMENSIONS

Check the corners and make sure that they are at 90° angles. Use a small machinist square.

If you have the measuring equipment verify that both uprights are dead on parallel.

Correct the angle is required. Failure in doing so may result in a sticky Z Axis.



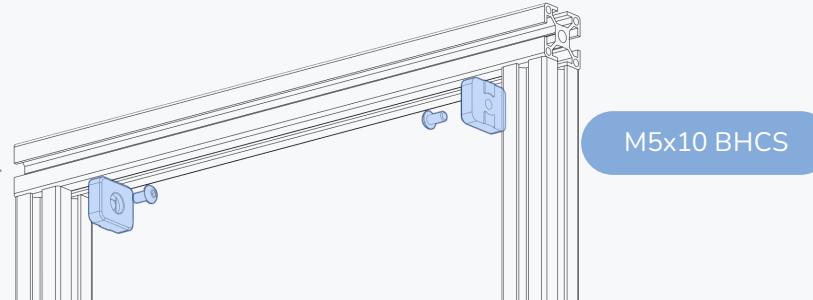
Z RAILS

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MIND THE CARRIAGE

The carriages are designed to slide along the rail easily.
This unfortunately also includes sliding off the rails.

Dropping the carriage likely irreparably damages it.

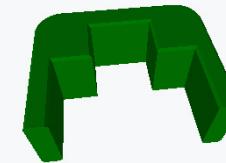
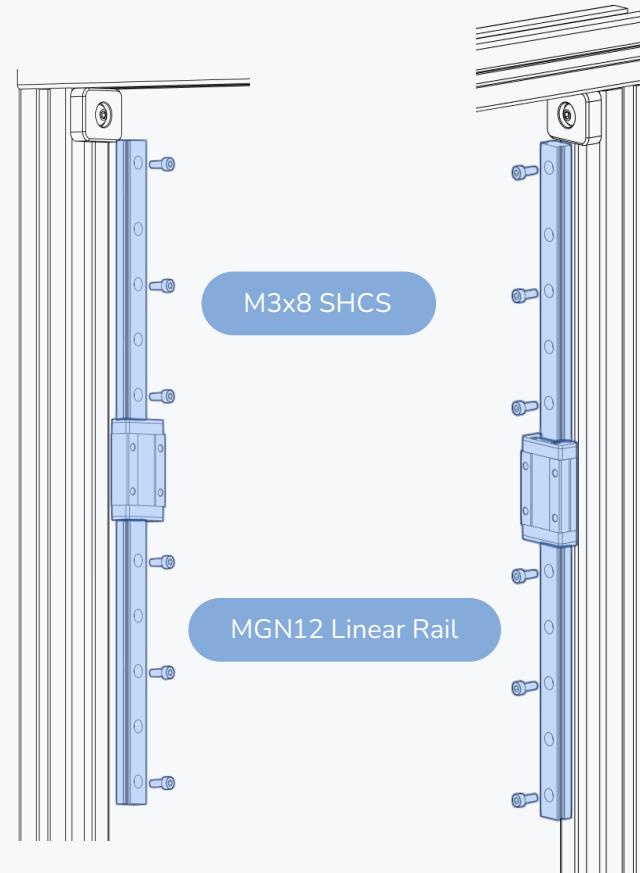
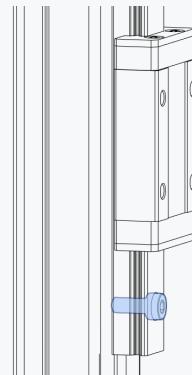


NO STOPPER ON LEFT RAIL

The left rail does not have a stopper in place to prevent the carriage from sliding off the rail.
Some rails come with little plastic stop pins, you can leave the bottom one in place.

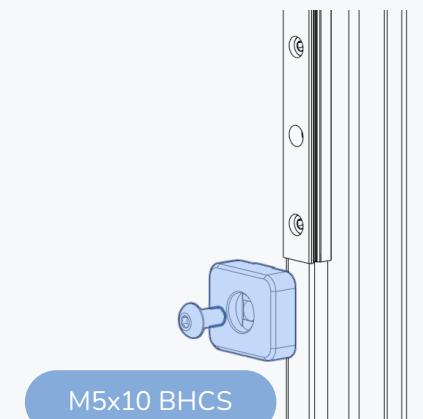
If your rail does not have these stop pins leave the last bolt slightly loose to act as a stopper.

Tip: Mark the location with some tape to draw your attention to it later.



CENTERED RAIL INSTALLATION GUIDE

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

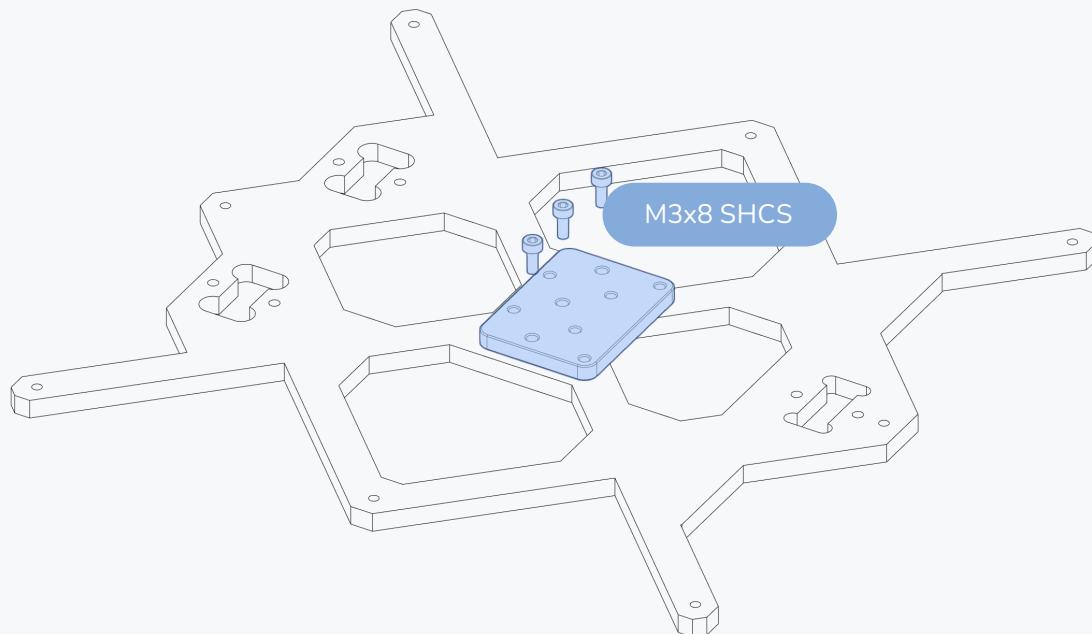


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Y AXIS

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CARRIAGE MODIFICATION

If you sourced an unmodified carriage (e.g. a Prusa replacement part) you'll need to modify the hole pattern.

Temporarily mount the drill jig to the carriage.
Drill the 6 holes marked on the right with a 3mm or 3.2mm
drill bit.

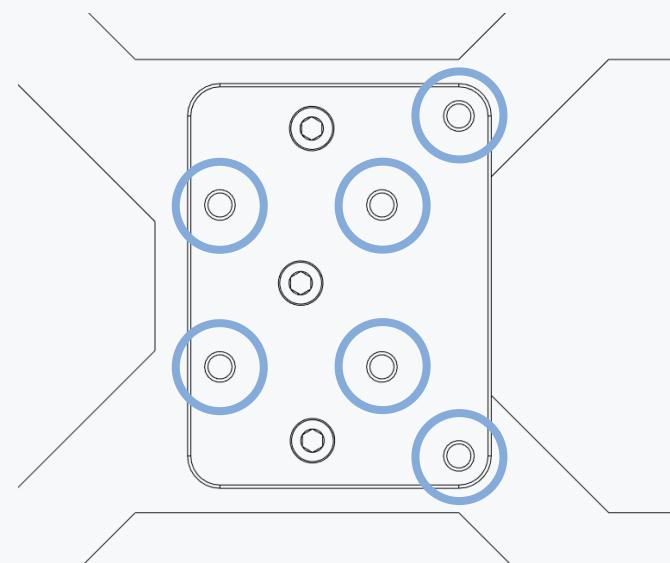
Remove the jig after you have drilled the holes.

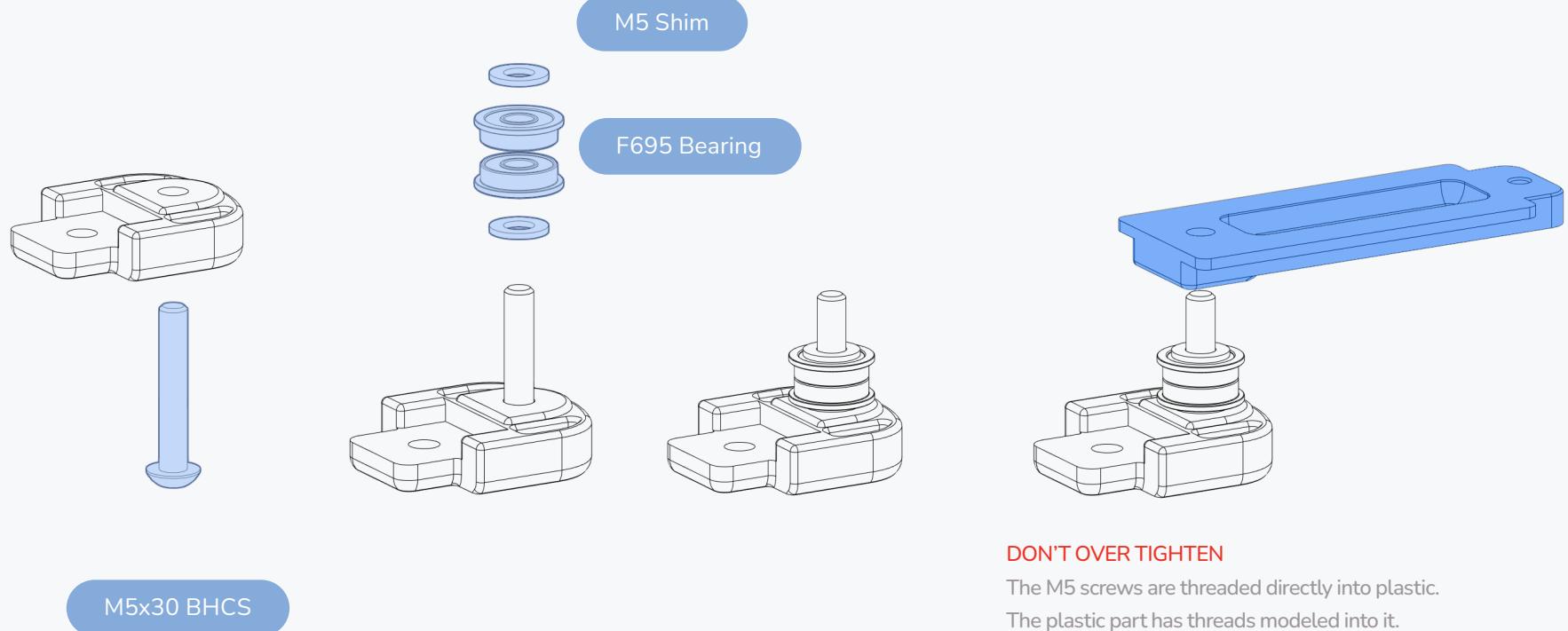
FINISHED CARRIAGE



Some vendors offer carriages with the bolt pattern required for the Voron Switchwire.

If you sourced a premachined carriage you can skip this step.



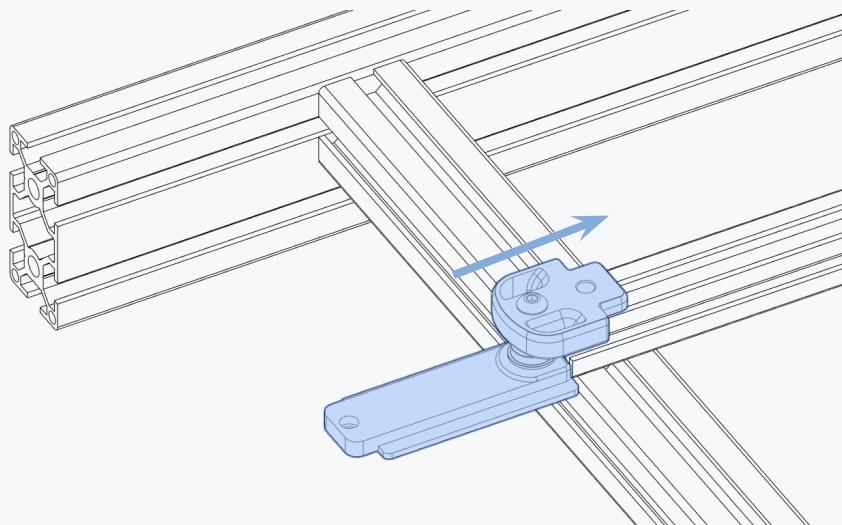


UPSIDE DOWN ASSEMBLY

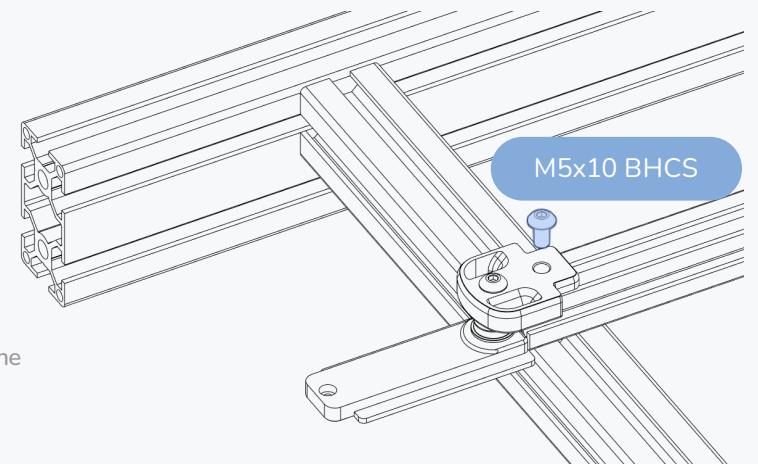
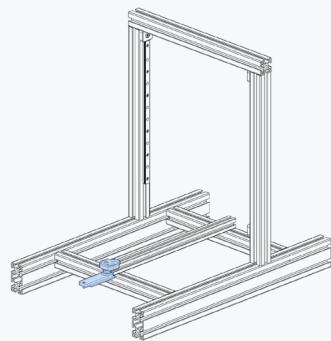
Why fight gravity if it can work for us.

DON'T OVER TIGHTEN

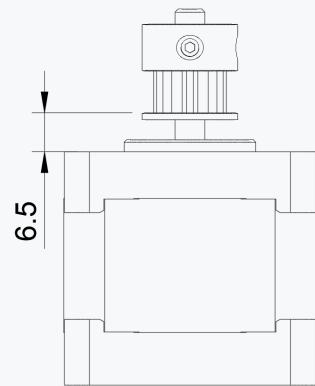
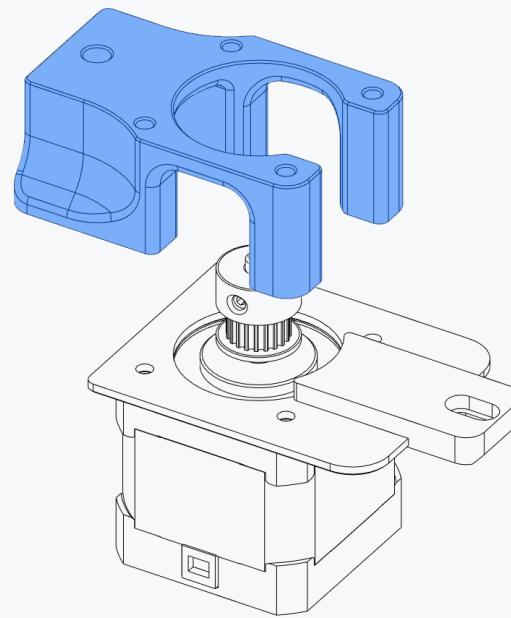
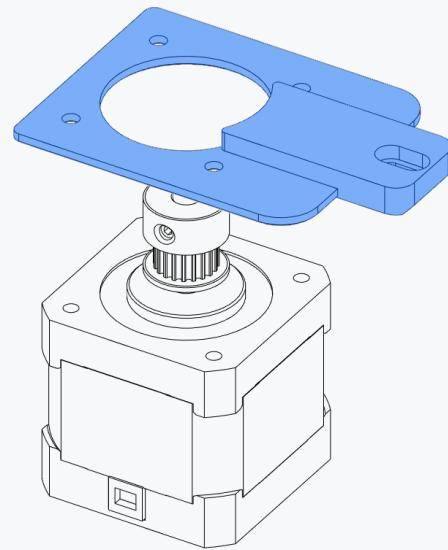
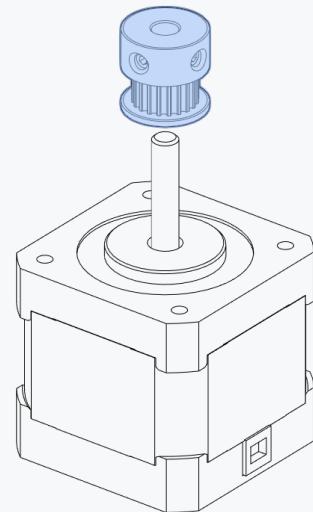
The M5 screws are threaded directly into plastic.
The plastic part has threads modeled into it.

**FULLY SEAT**

Make sure the part is installed flush against the extrusion.



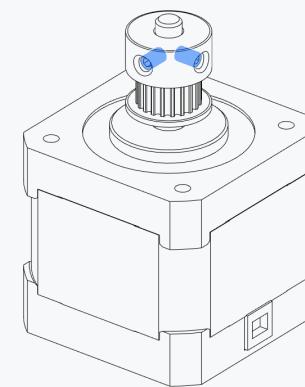
GT2 20T Pulley

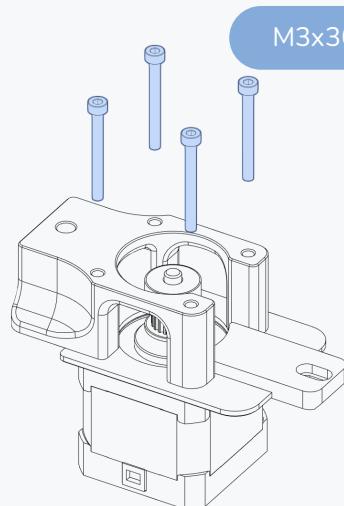
**GRUB SCREWS****aka the root of all issues**

Use thread locker on all grub screws after you set their position.

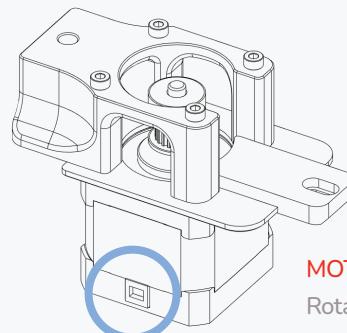
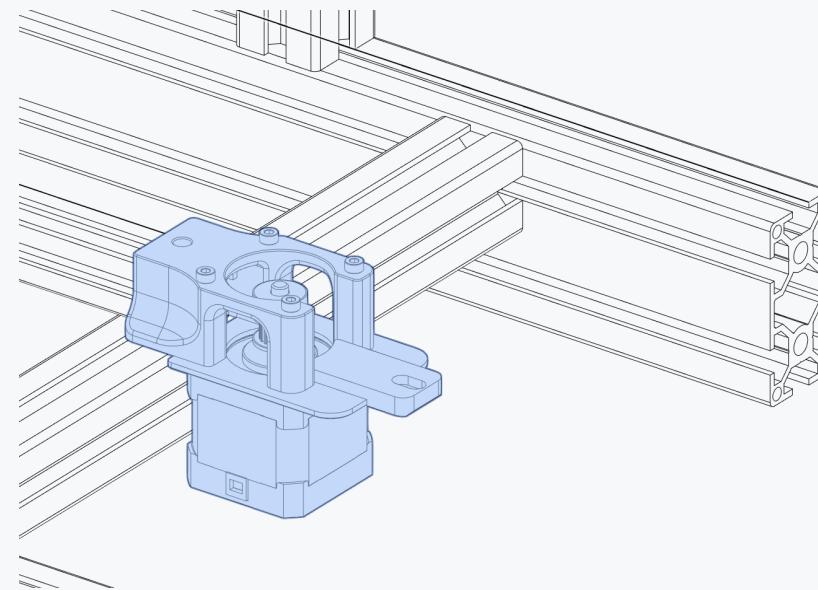
Loose grub screws account for the majority of issues that our users report. Save yourself hours of troubleshooting and apply thread locker to all grub screws during the build.

See the products application notes for instructions.



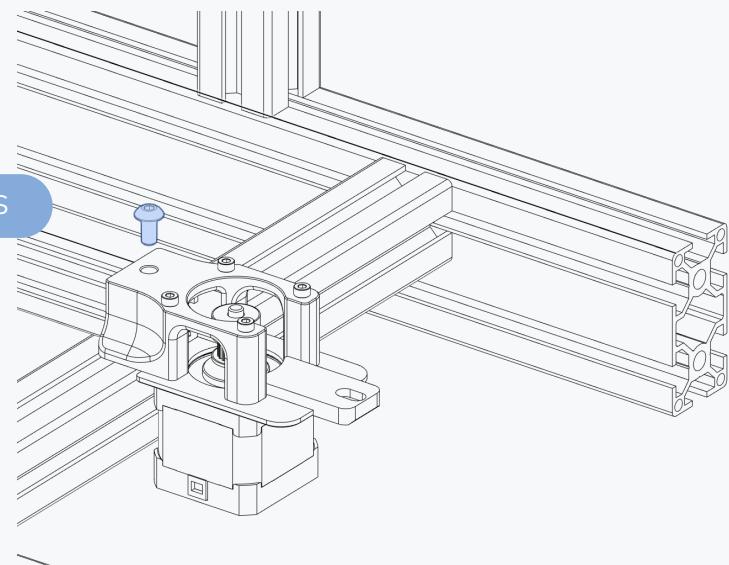


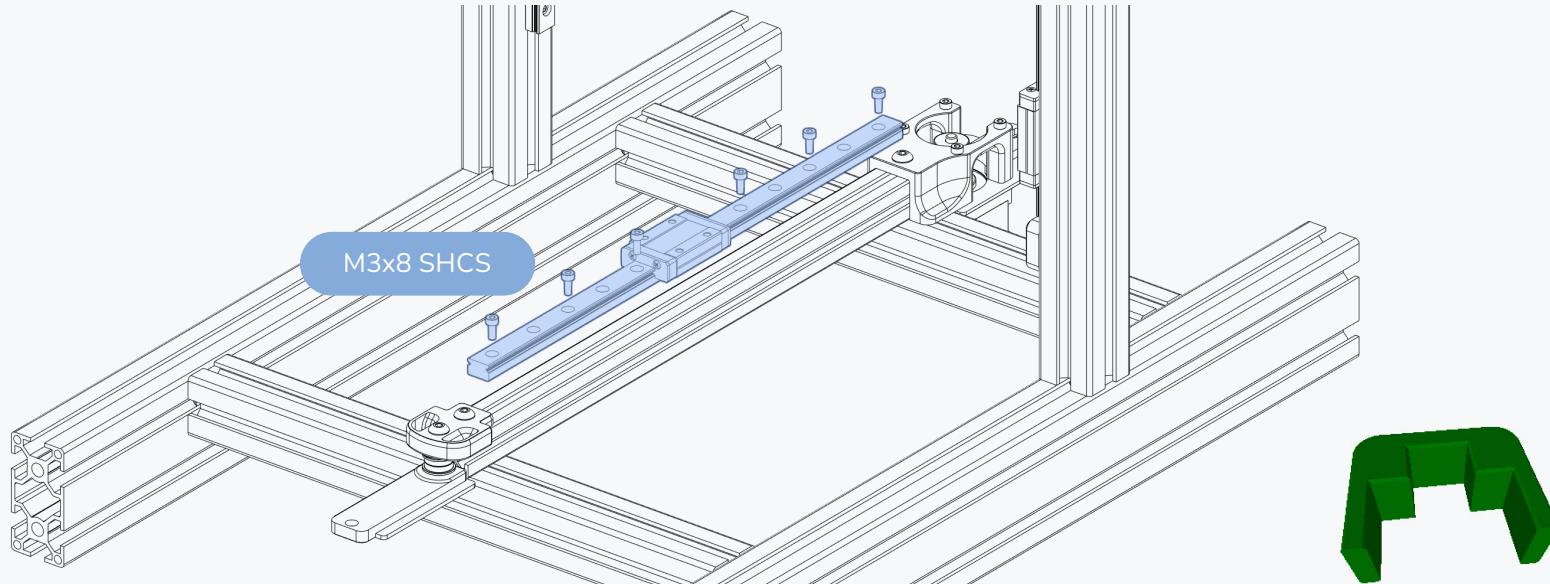
M3x30 SHCS

**MOTOR ORIENTATION**

Rotate the motor in such a way that
the connector/wires are on the left side
when looking at it from the back.

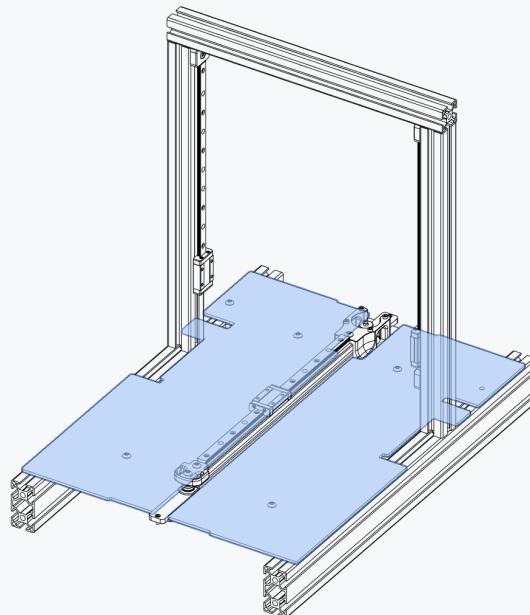
M5x10 BHCS





CENTERED RAIL INSTALLATION GUIDE

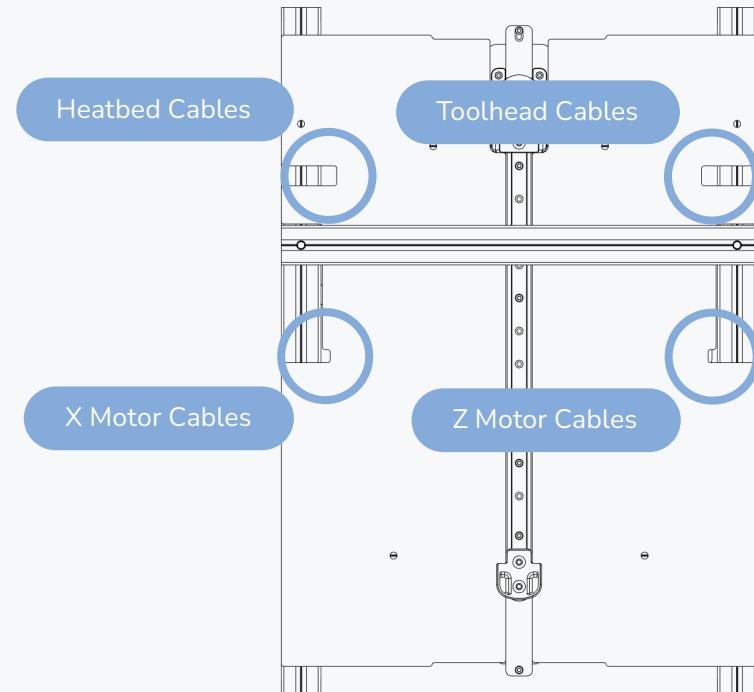
Use the guides to position the rail in the center of the extrusion prior to fastening the bolts.

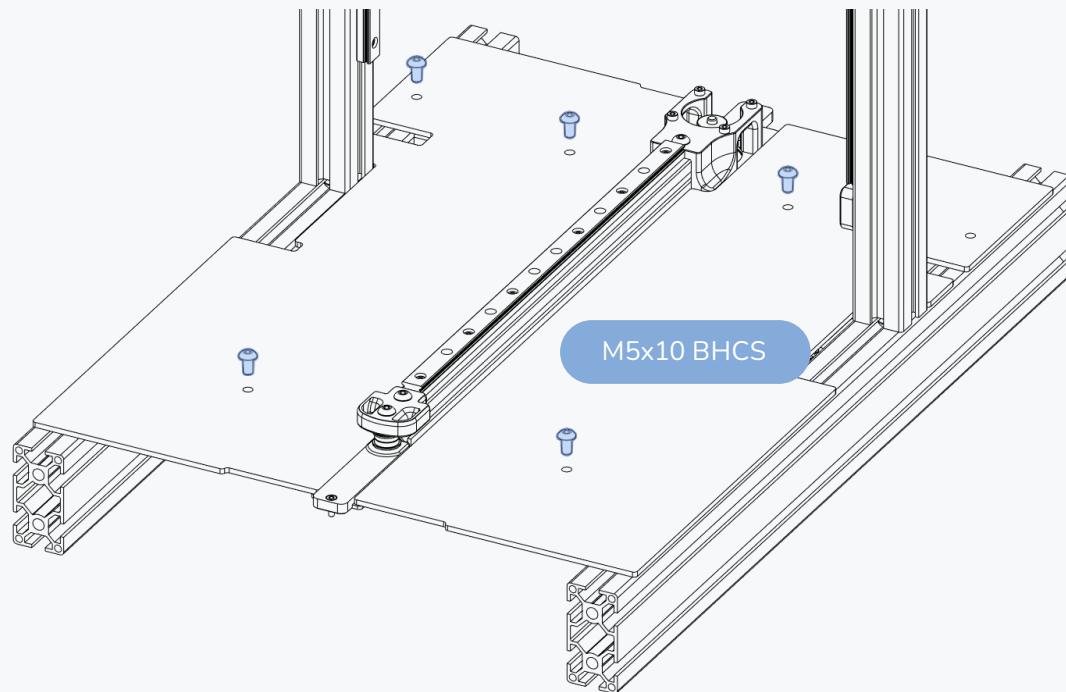
**DECK PANELS?!**

You can install the deck panels at this point if you like.
We didn't show them to make some captures easier.

PREMADE WIRE HARNESS

If you sourced a premade wire harness add the cables
that pass through the deck panels now.

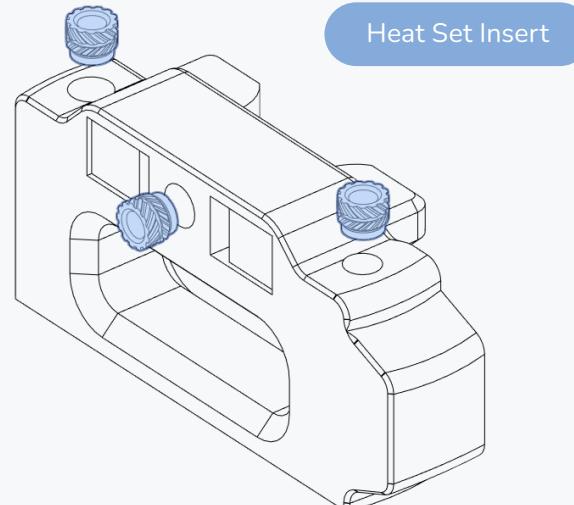




SENSORLESS HOMING FOR Y



Should you desire to use a microswitch as an endstop follow the instructions on the next page instead.



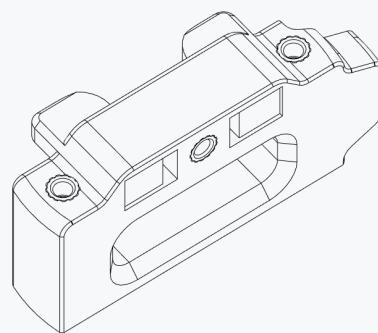
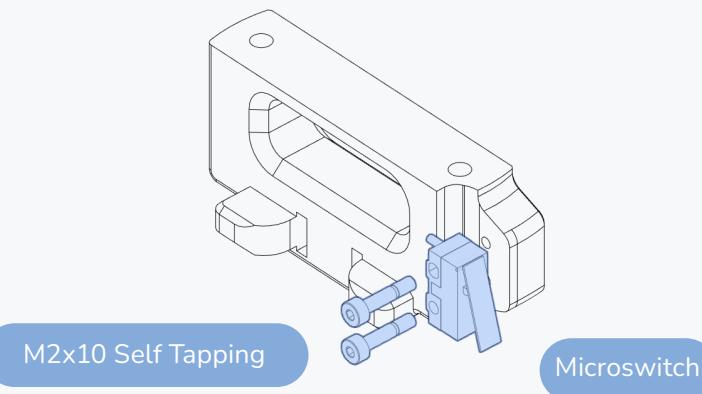
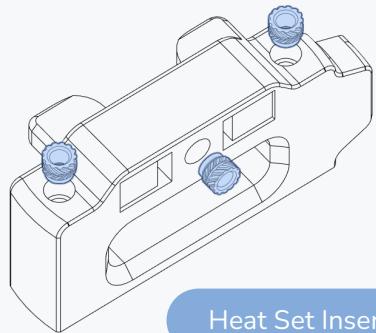
HEAT SET INSERTS

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

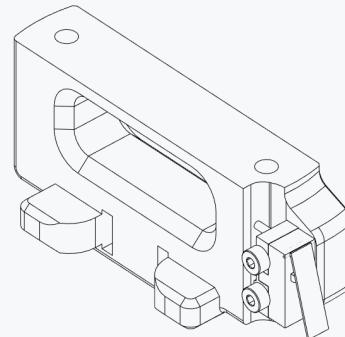
If you've never worked with heat set inserts before we recommend you watch the linked guide.



<https://voron.link/m5ybt4d>

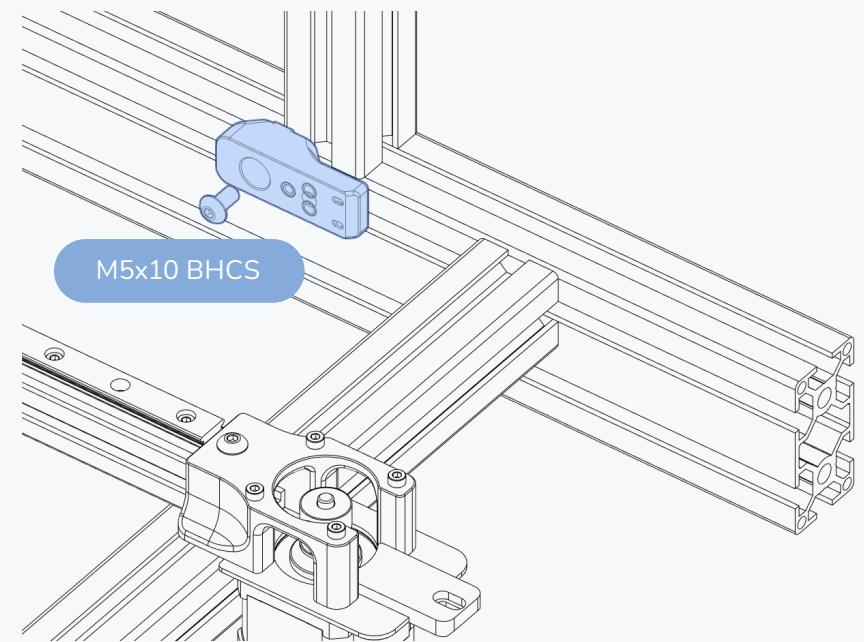
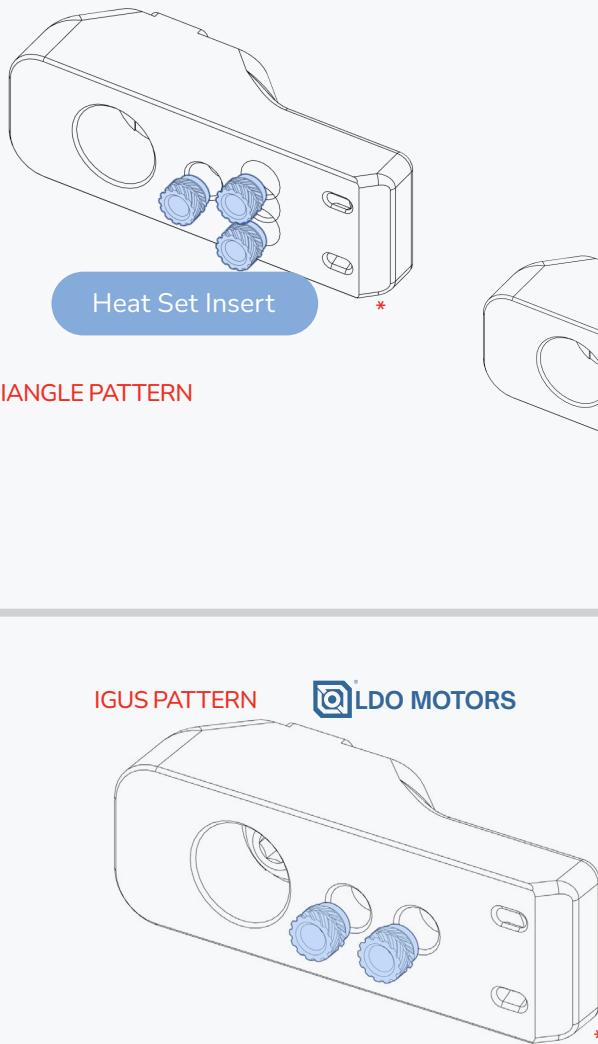
**SOLDER WIRES**

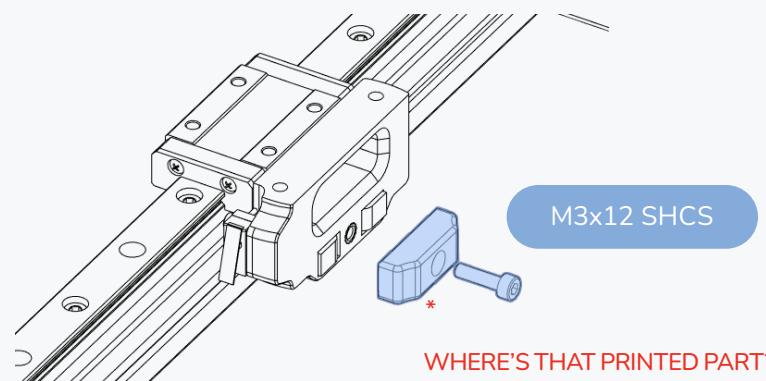
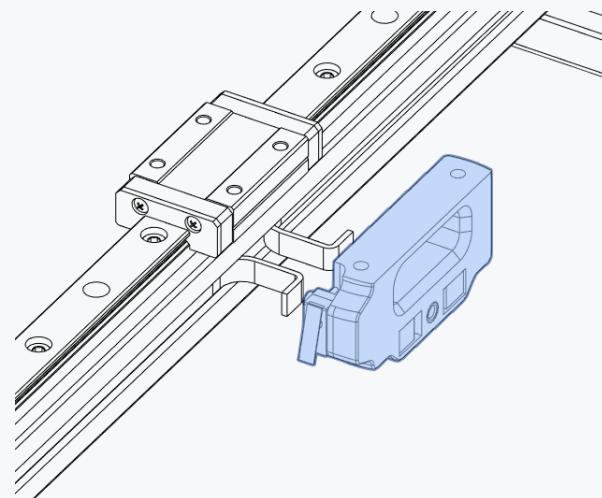
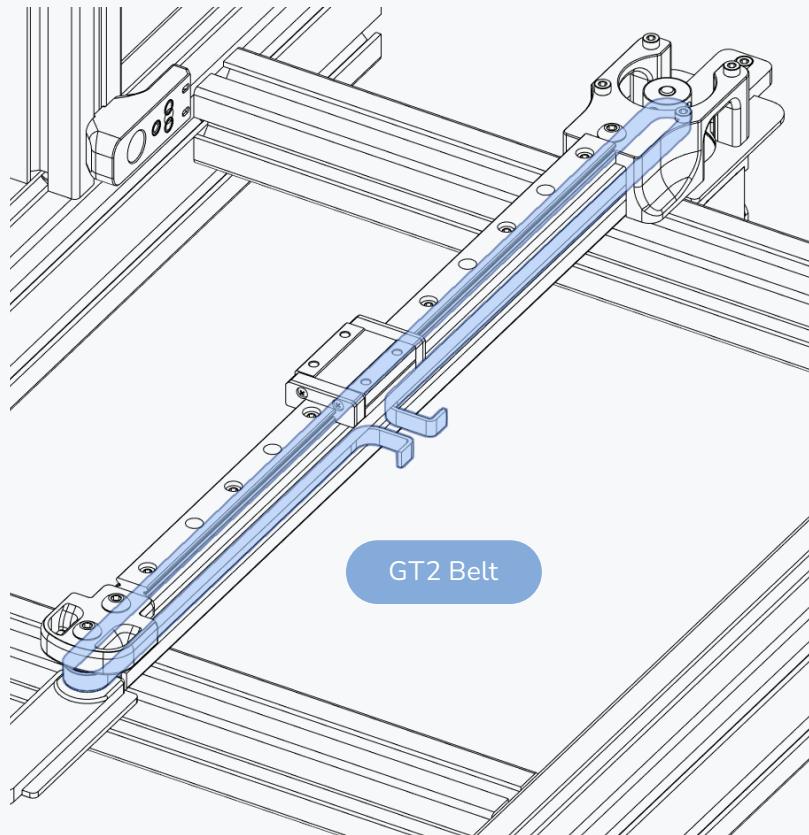
Solder approx. 100mm of wire to the mircoswitch before installing it.
See setup guide for details.



Y CABLE CHAIN MOUNT

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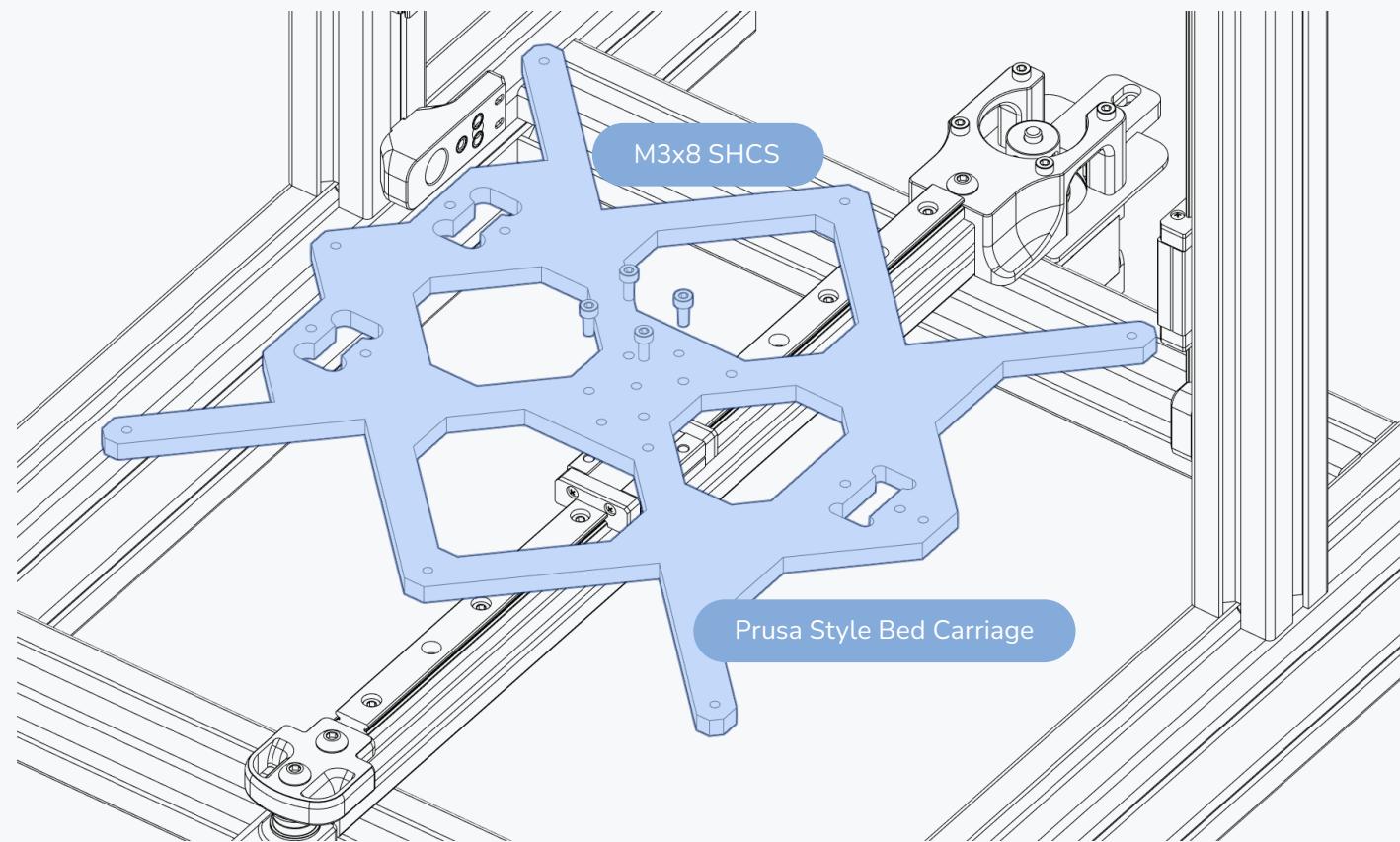
WHERE'S THAT PRINTED PART?

Look for asterix next to the part.

It indicates that this is an accent part.

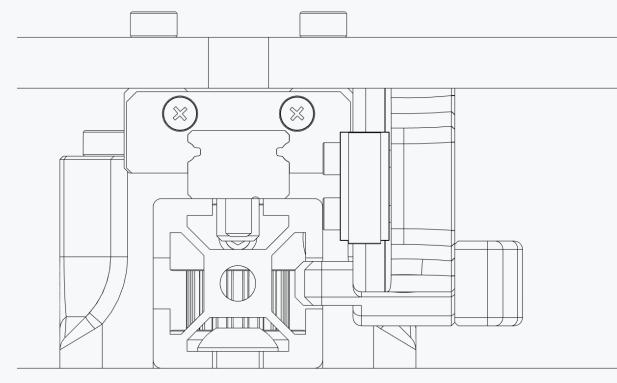
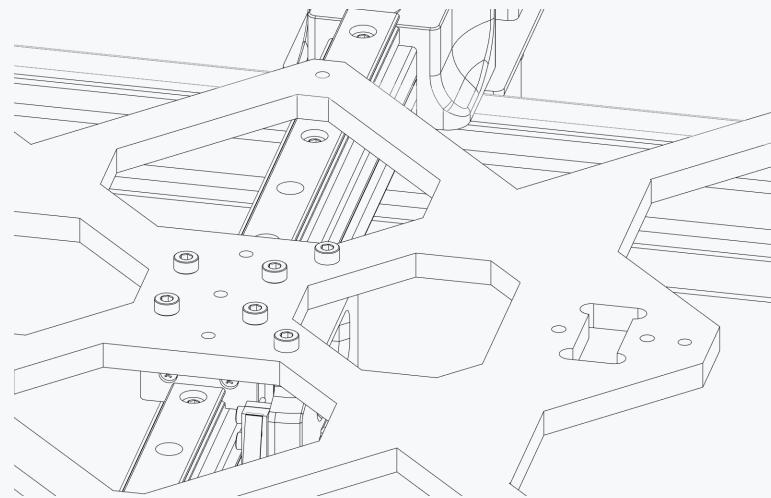
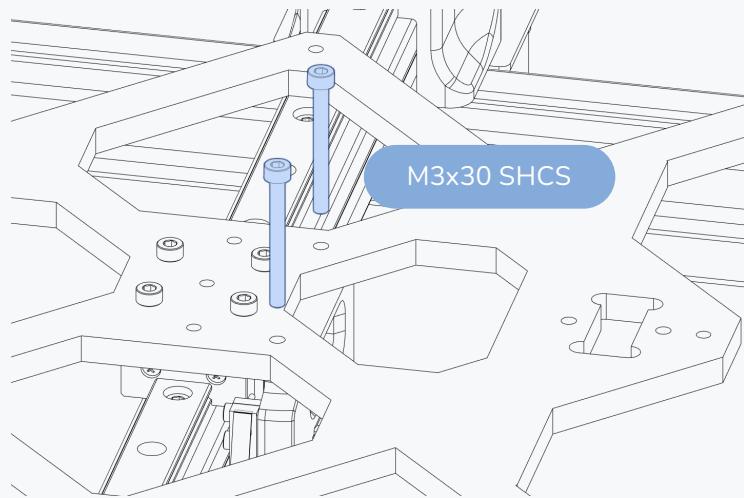
BED CARRIAGE INSTALLATION

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Y BELT HOLDER

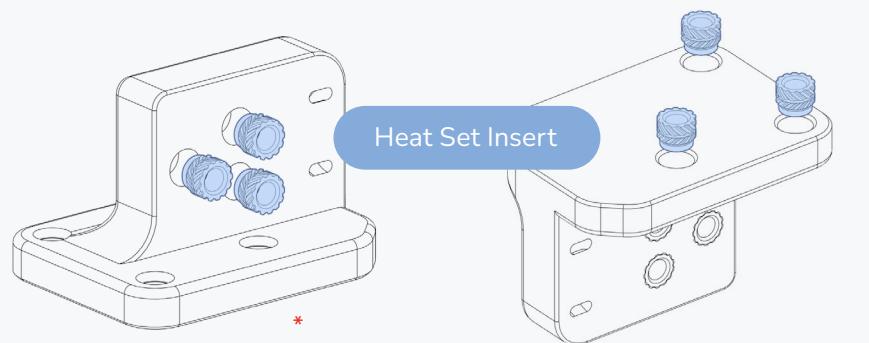
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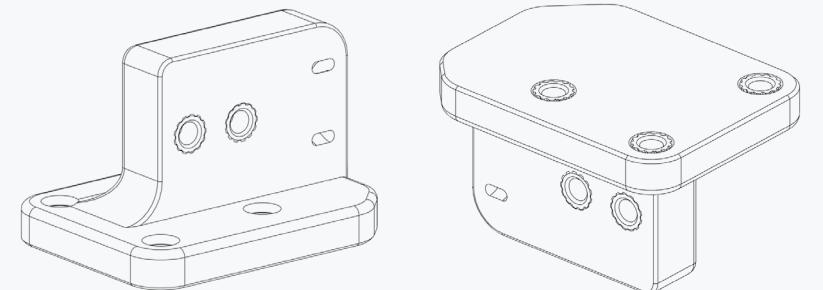
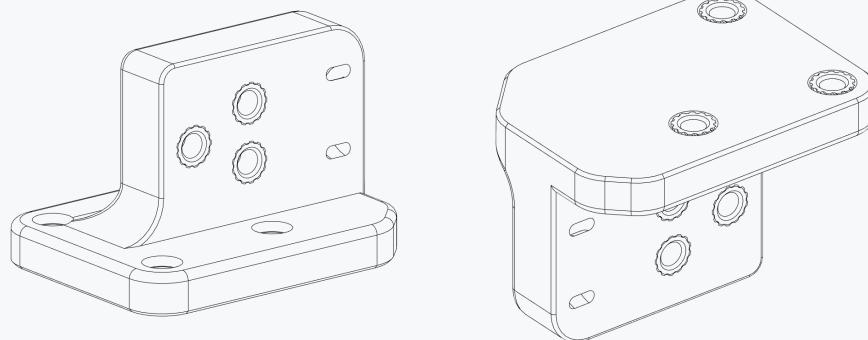
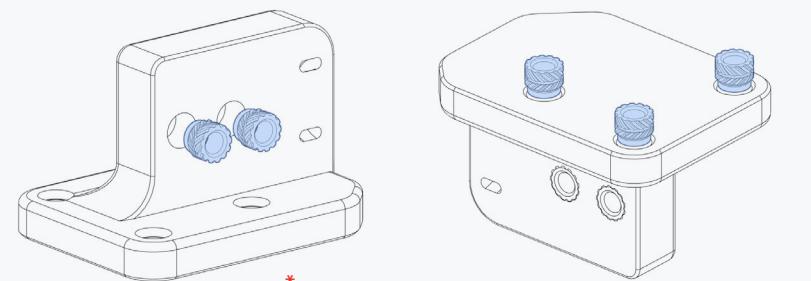
CABLE CHAIN HOLE PATTERN

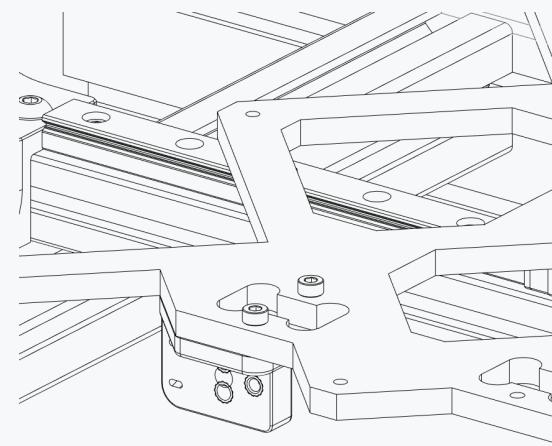
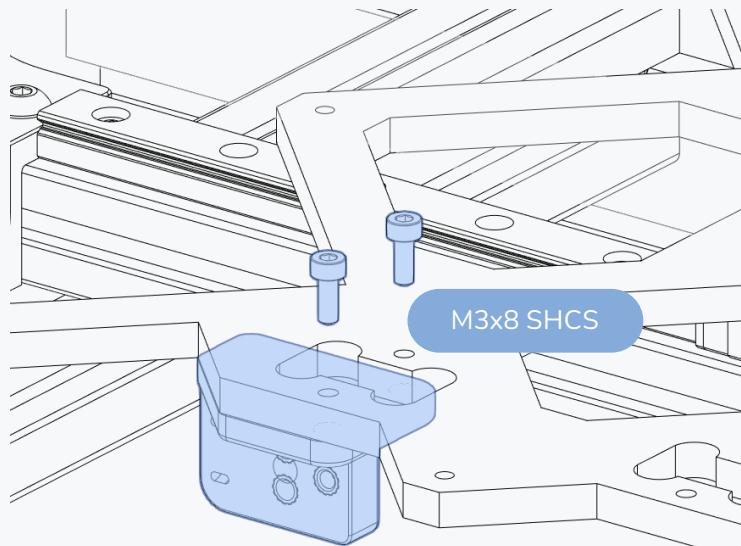
Cable chains ends have a couple of different hole patterns. We offer mounts for both the inline pattern used on IGUS chains, and the triangle pattern present on budget chains.

TRIANGLE PATTERN



IGUS PATTERN





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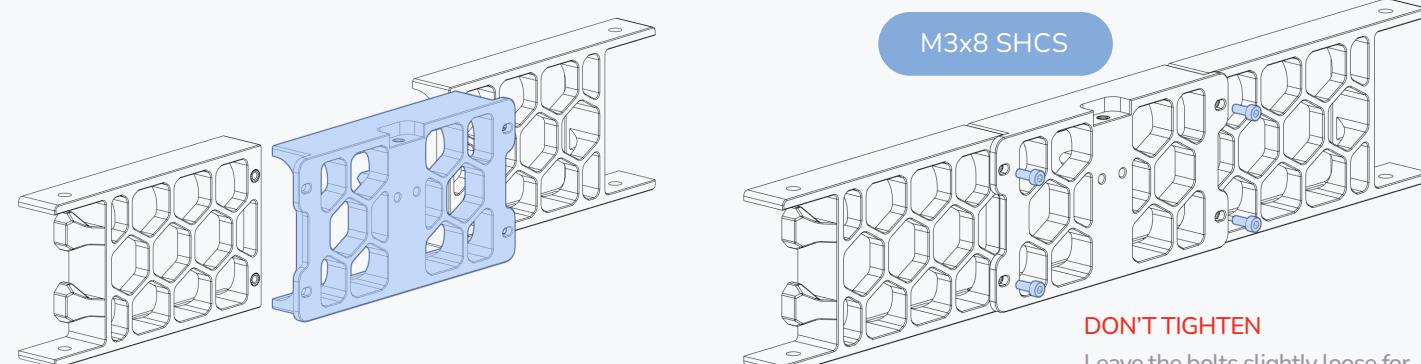
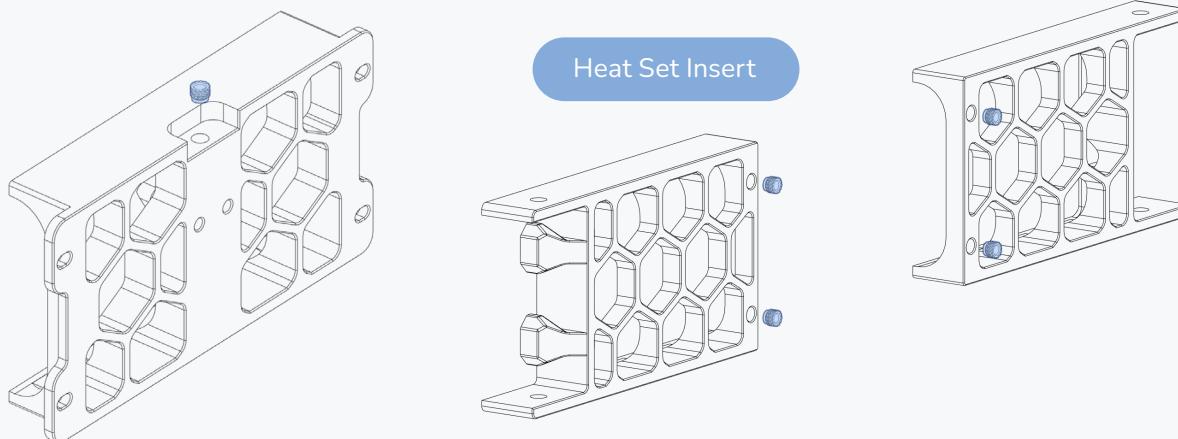
SKIRTS

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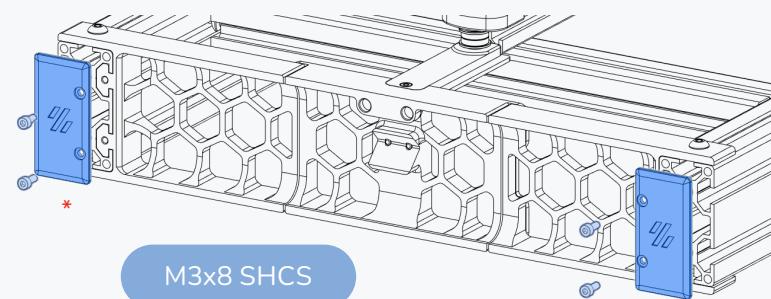
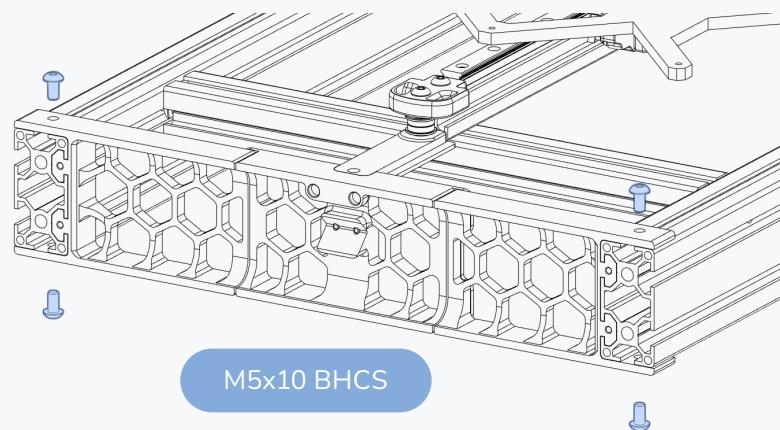
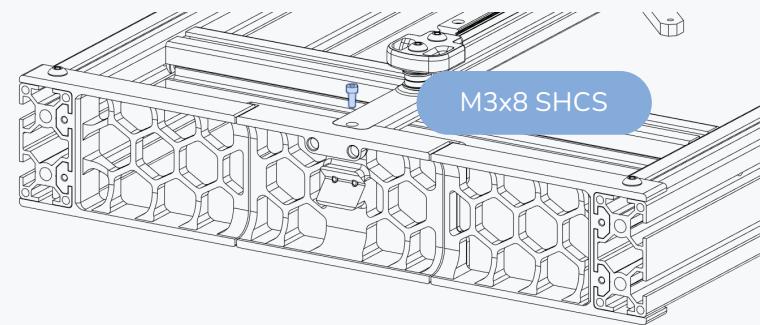
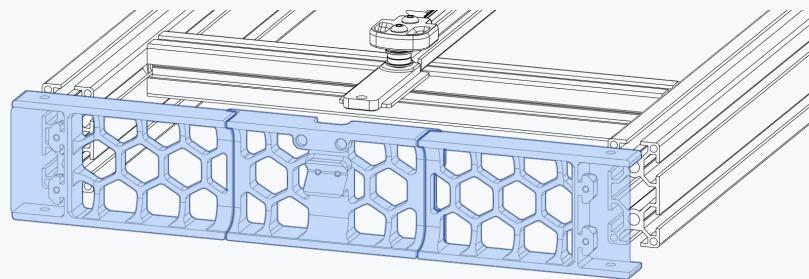
FRONT SKIRTS

VORONDESIGN.COM



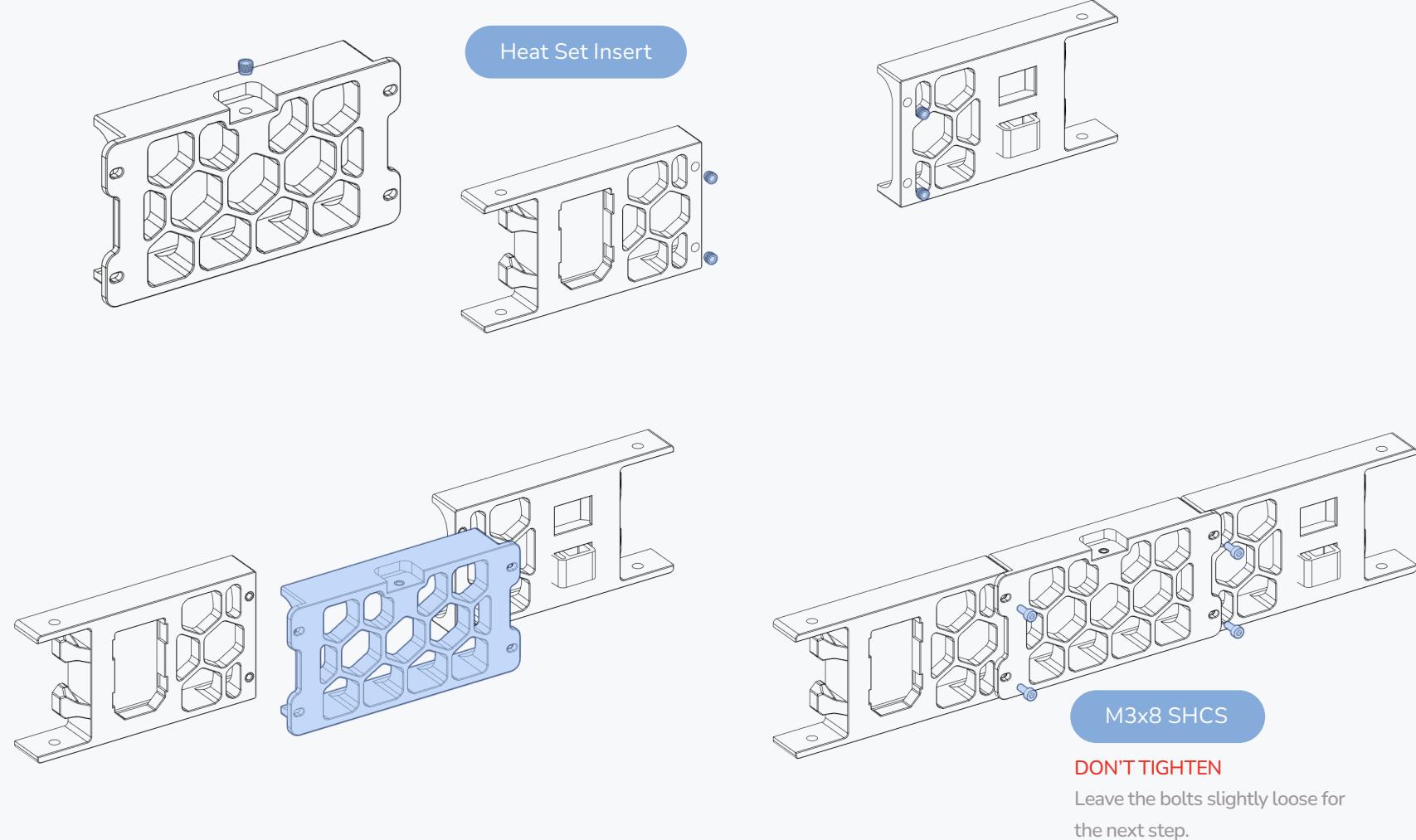
FRONT SKIRT

VORONDESIGN.COM



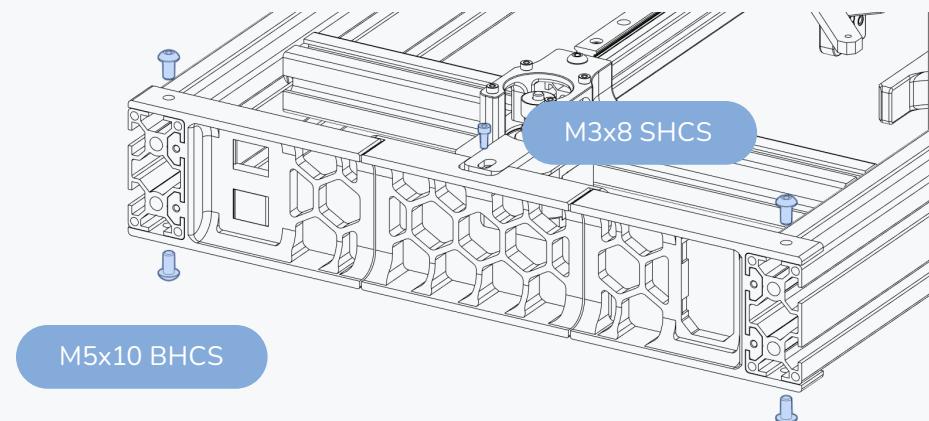
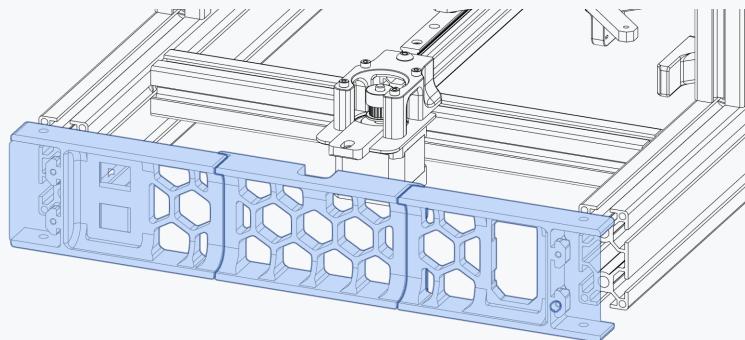
TIGHTEN BOLTS

Tighten the bolts that connect the centre piece once installed on the frame.



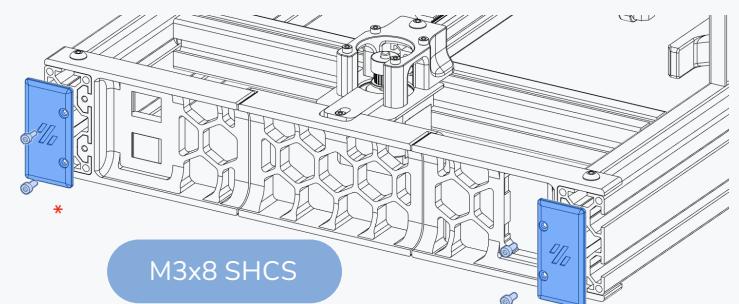
BACK SKIRT

VORONDESIGN.COM



TIGHTEN BOLTS

Tighten the bolts that connect the centre piece once installed on the frame.



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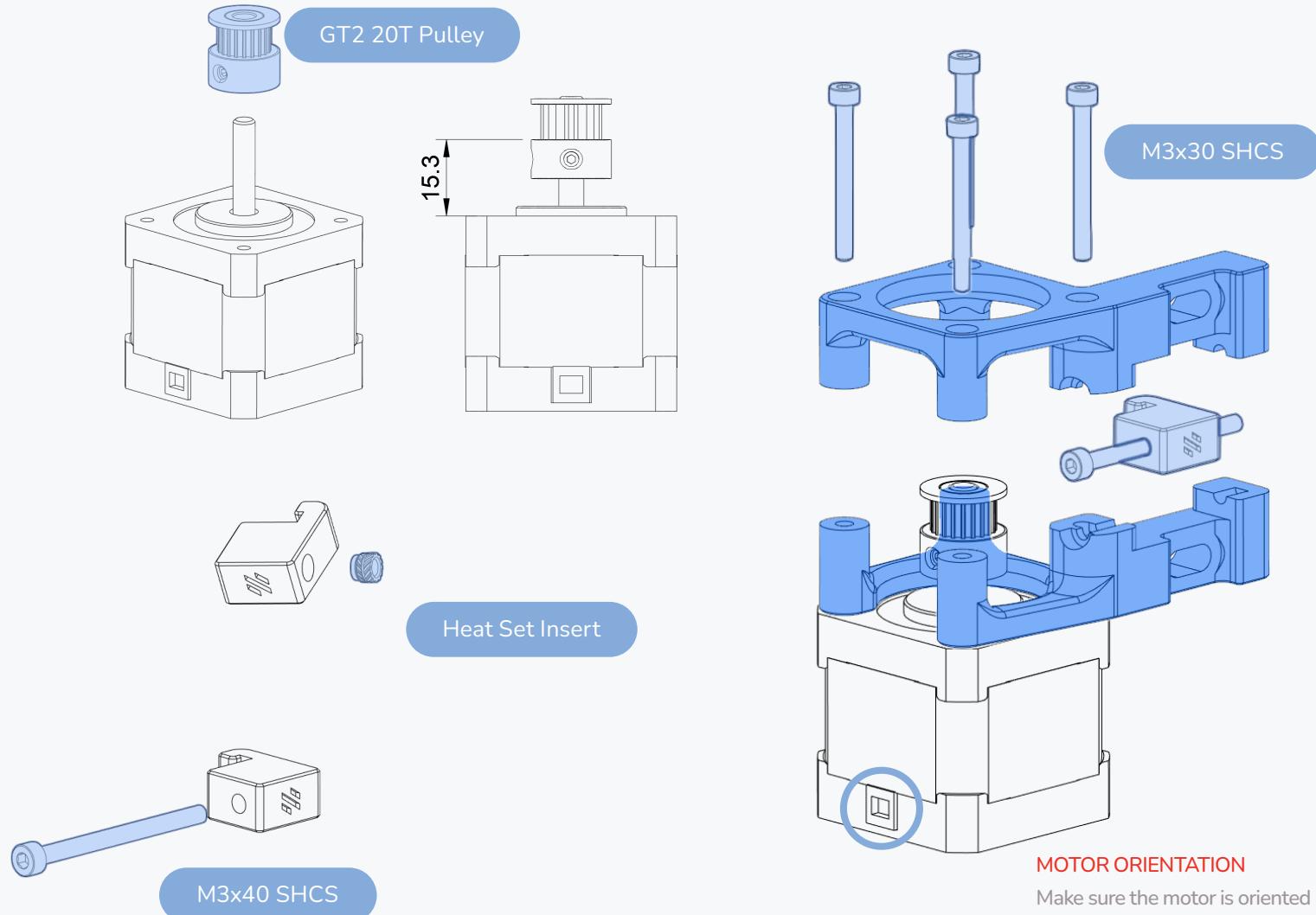
X&Z AXIS

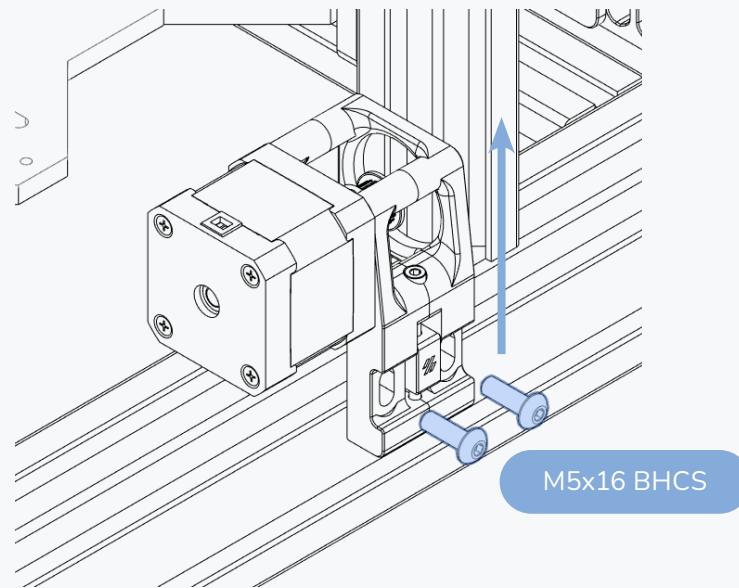
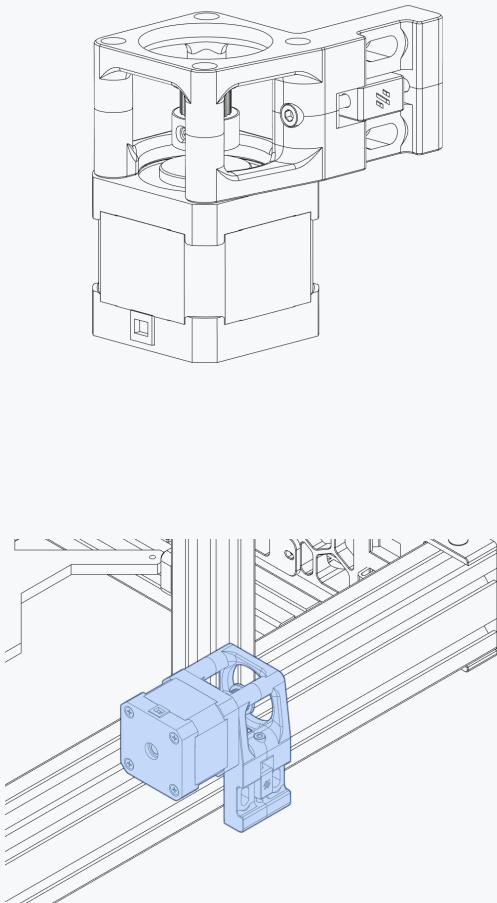
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“Z” MOTOR MOUNT

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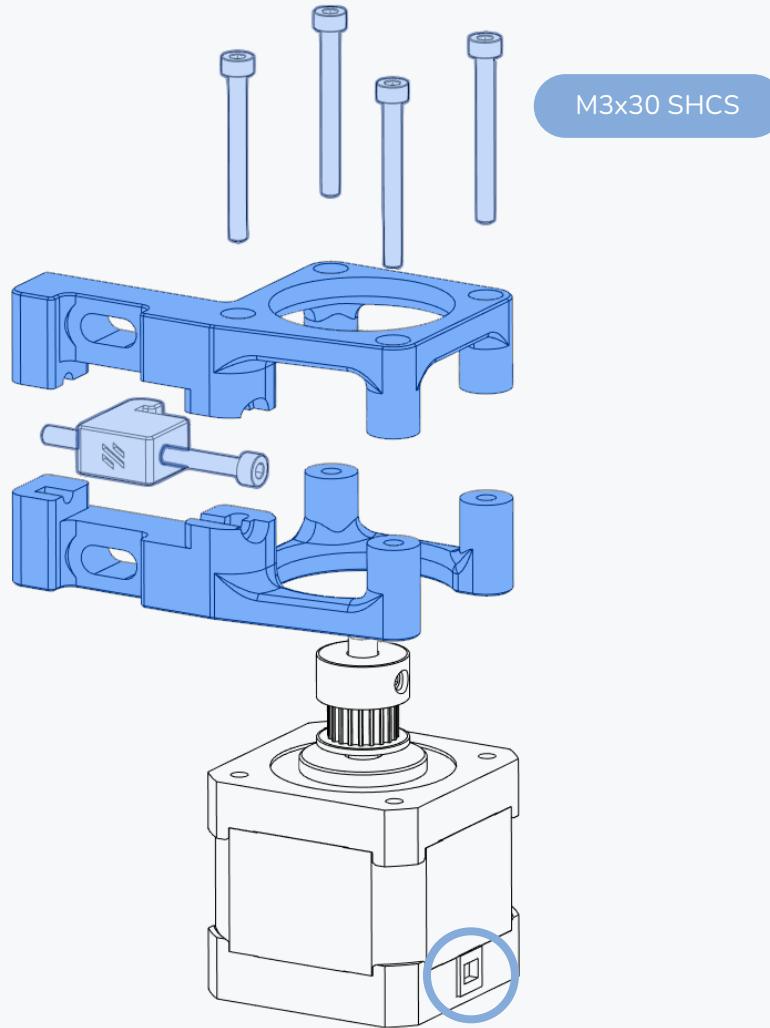
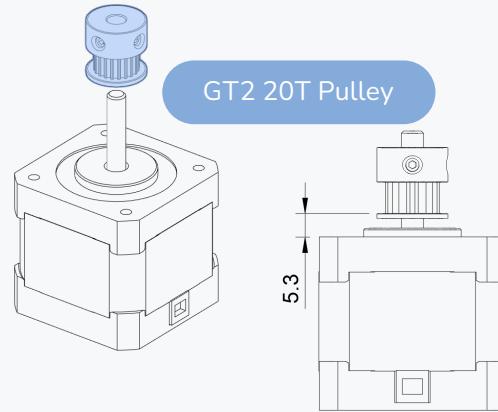


MOTOR MOUNT INSTALLATION

Push the motor mount as far up as the slots in the parts allow you to before fastening the bolts. You may need to turn the M3x40 counter clock wise to fully bottom out in the slot.

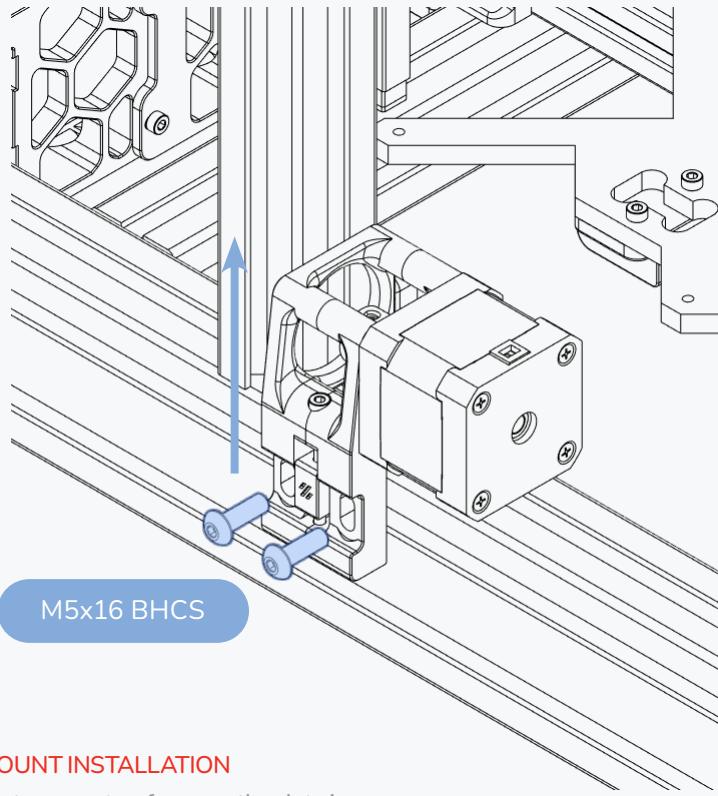
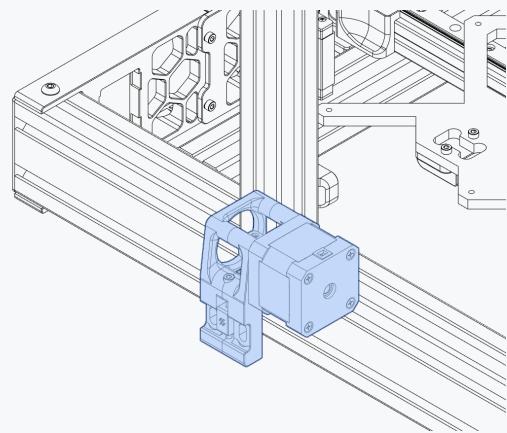
“X” MOTOR MOUNT

VORONDESIGN.COM



MOTOR ORIENTATION

Make sure the motor is oriented as shown.

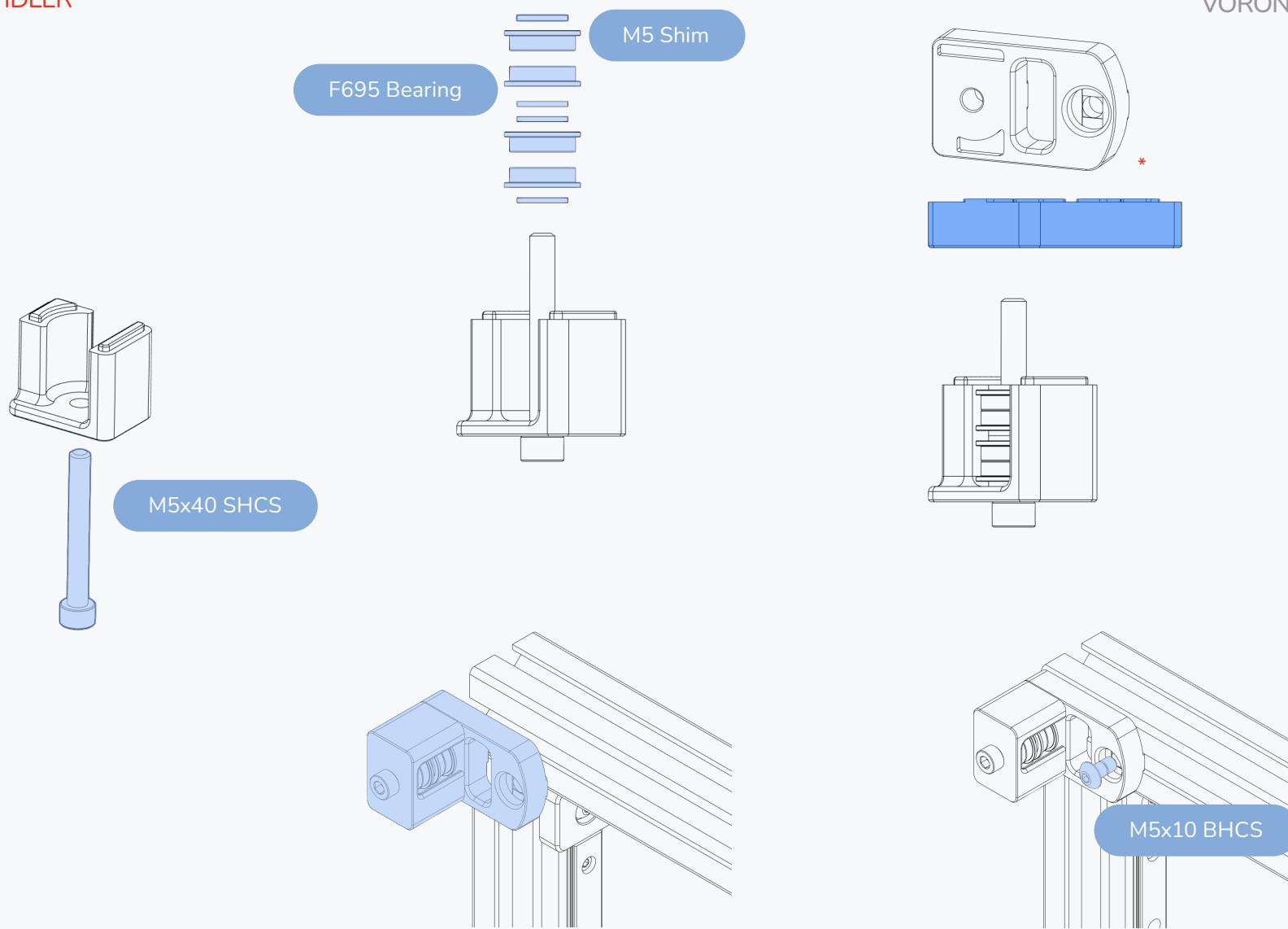


MOTOR MOUNT INSTALLATION

Push the motor mount as far up as the slots in the parts allow you to before fastening the bolts. You may need to turn the M3x40 counter clock wise to fully bottom out in the slot.

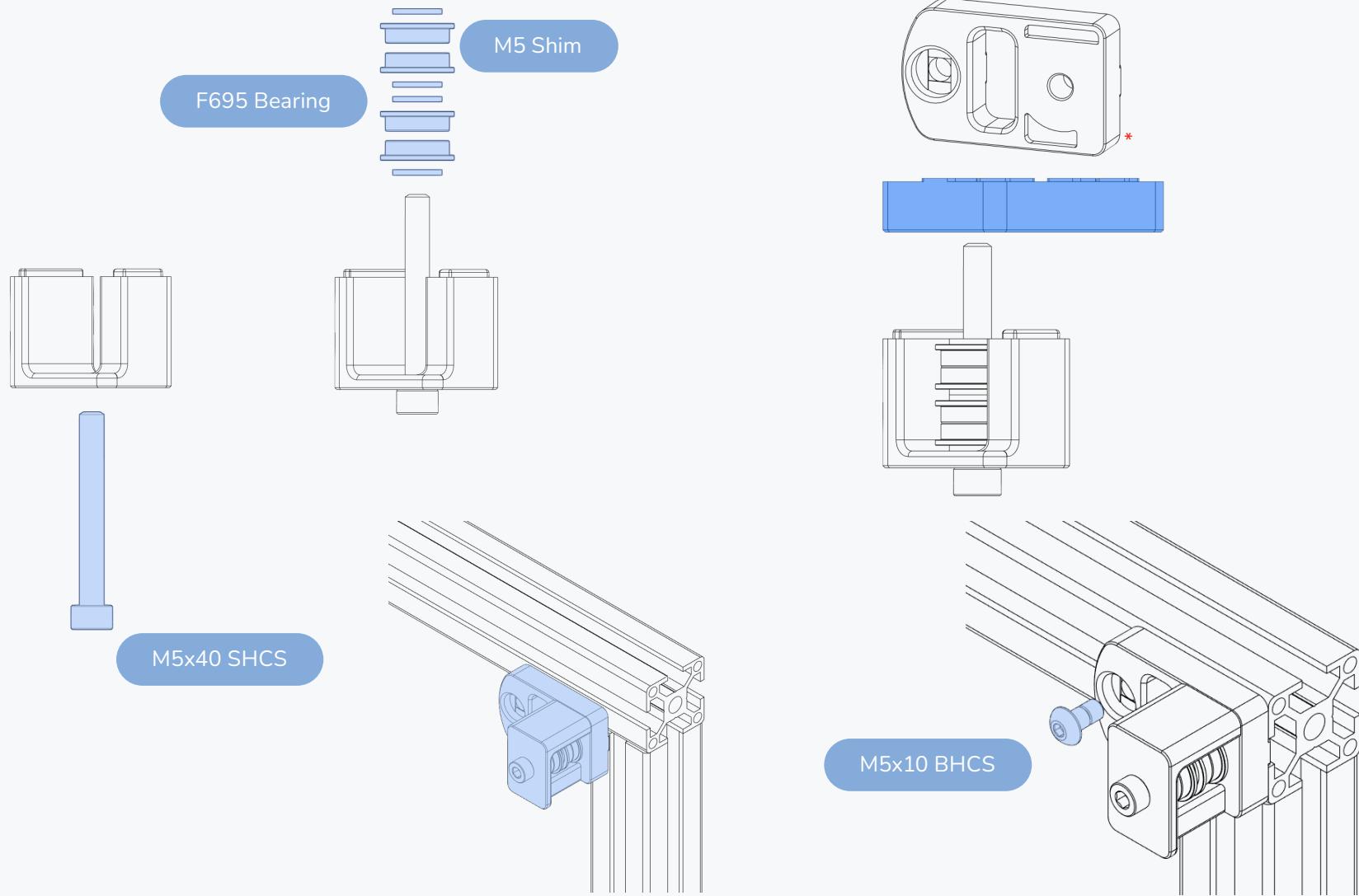
LEFT IDLER

VORONDESIGN.COM



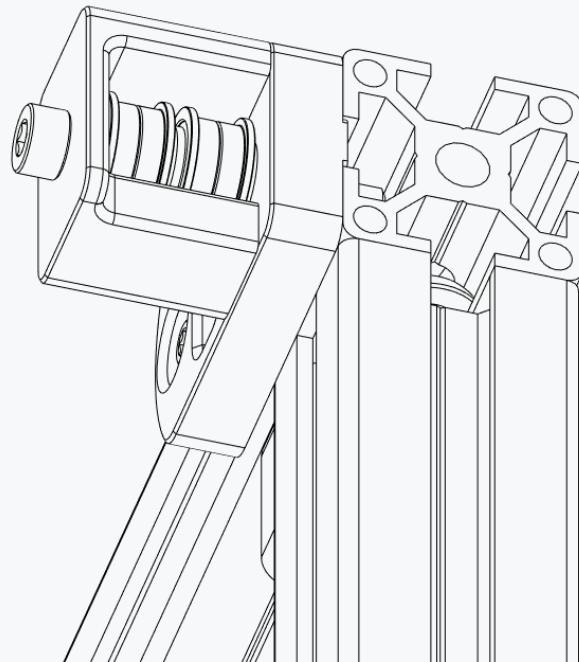
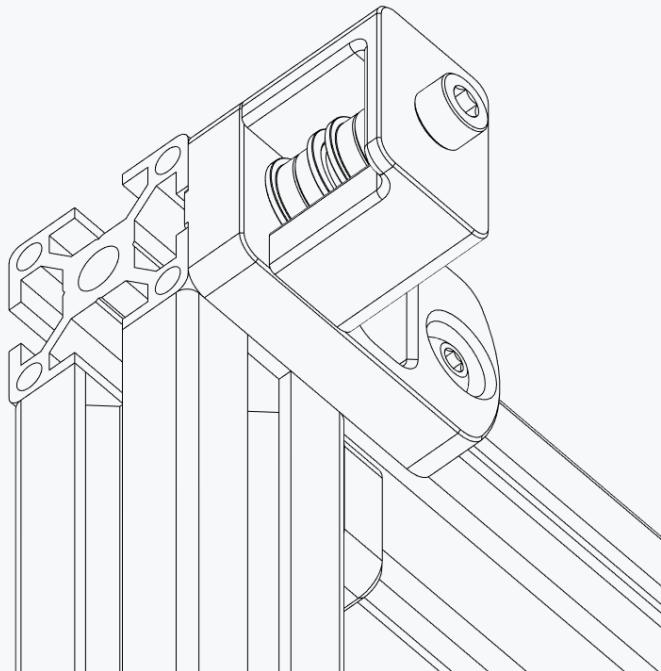
RIGHT IDLER

VORONDESIGN.COM



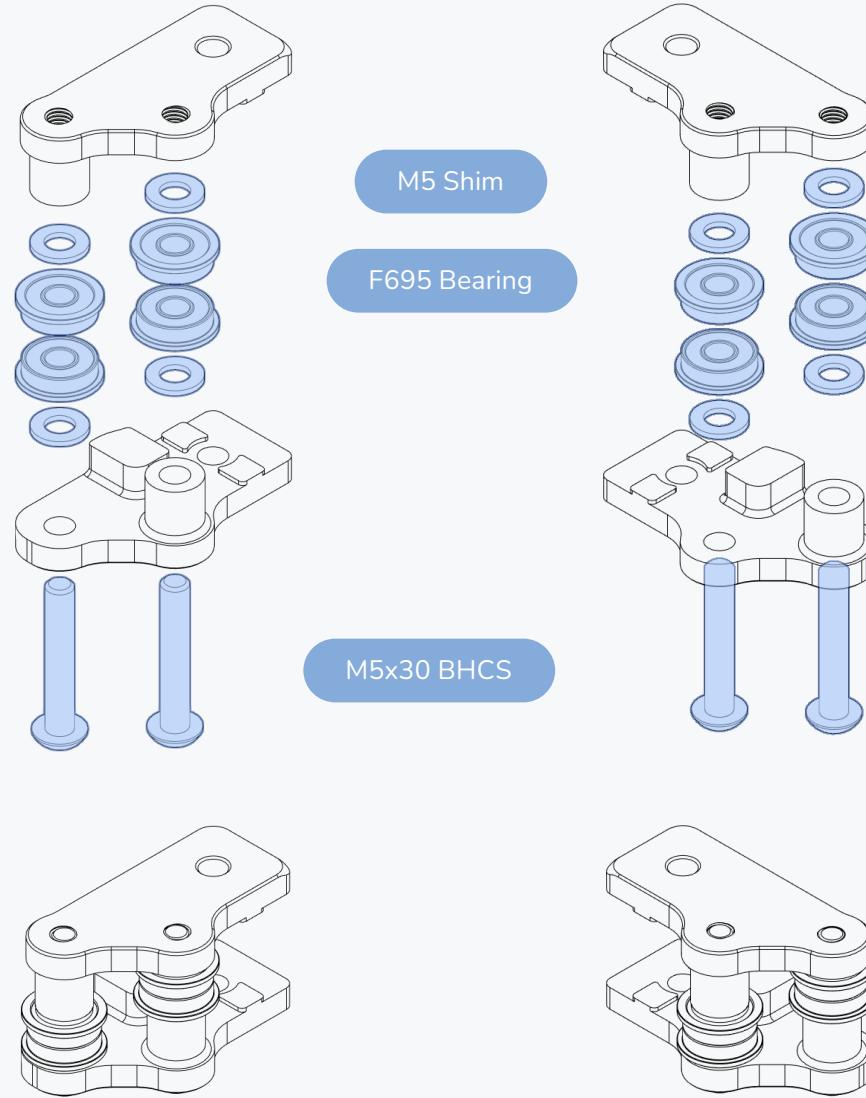
CHECK ORIENTATION

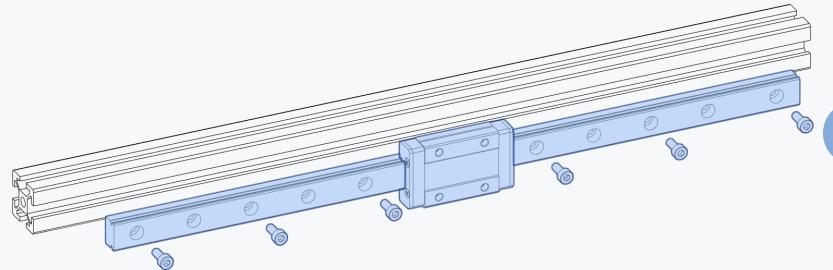
Make sure the cut-out is facing down.



UPSIDE DOWN ASSEMBLY

We'll flip these components a few times.
Pay attention to their final orientation



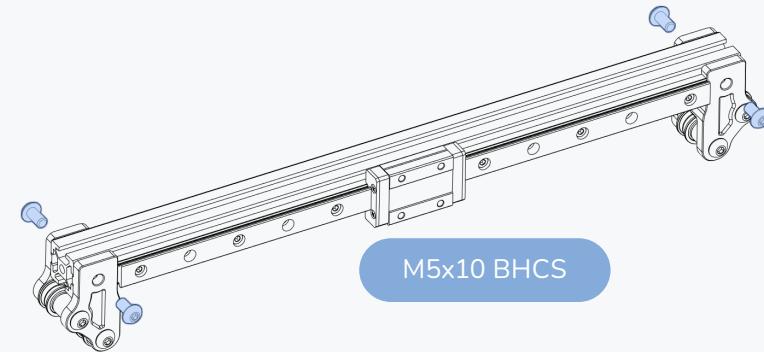
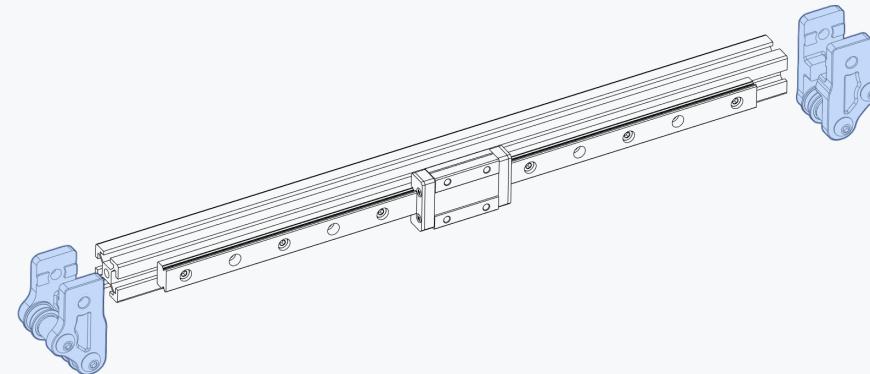


MGN12 Linear Rail

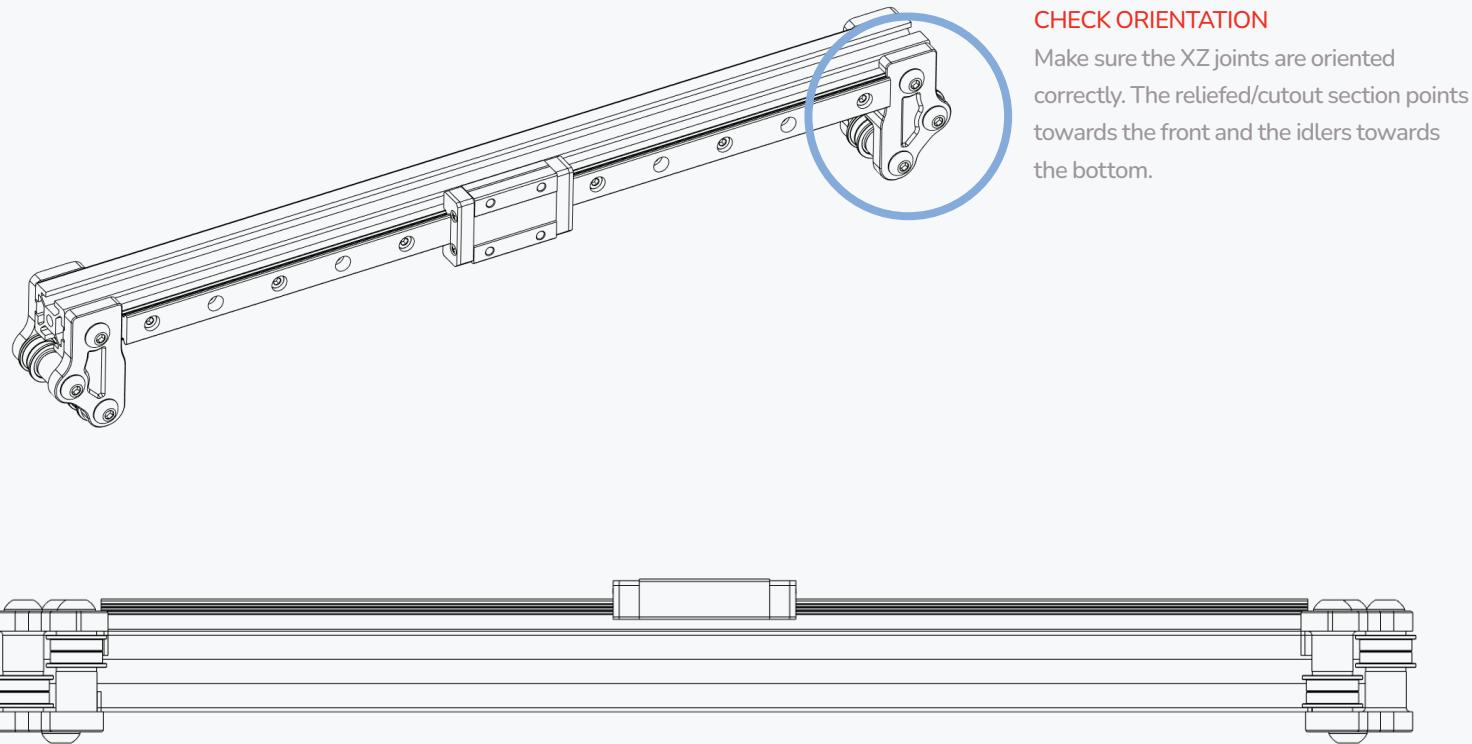
M3x8 SHCS

**CENTERED RAIL INSTALLATION GUIDE**

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



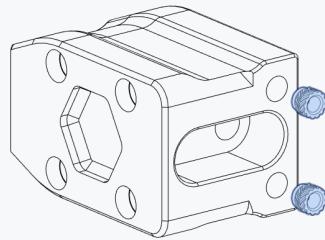
M5x10 BHCS

**CHECK ORIENTATION**

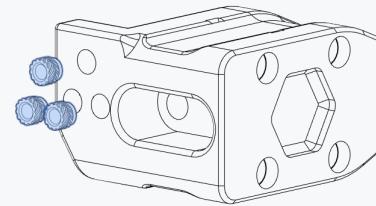
Make sure the XZ joints are oriented correctly. The relieved/cutout section points towards the front and the idlers towards the bottom.

Z BEARING BLOCK

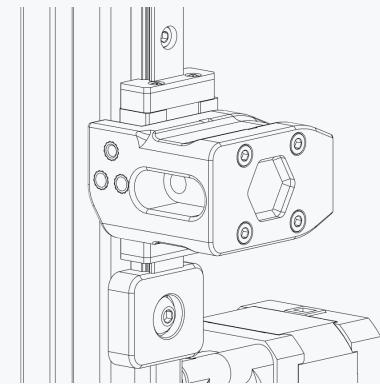
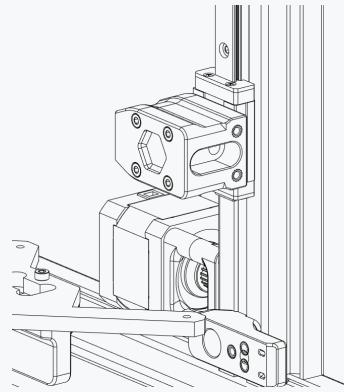
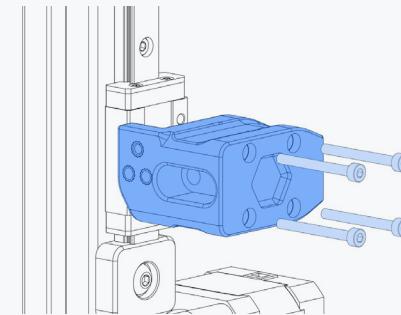
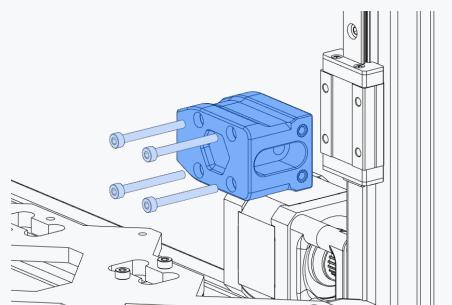
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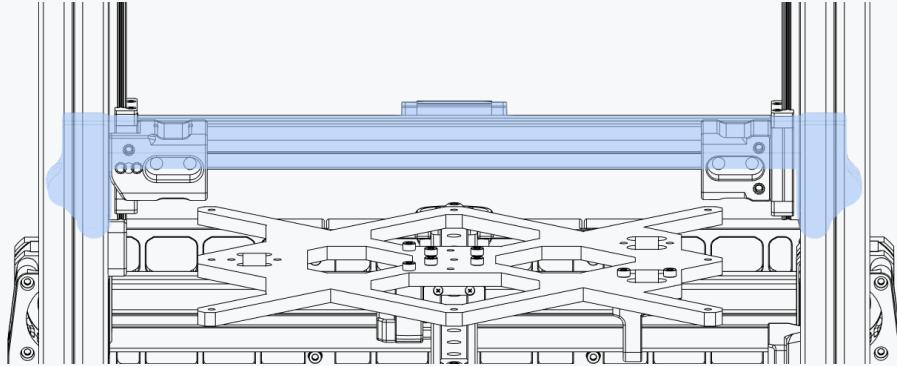


Heat Set Insert



M3x30 SHCS

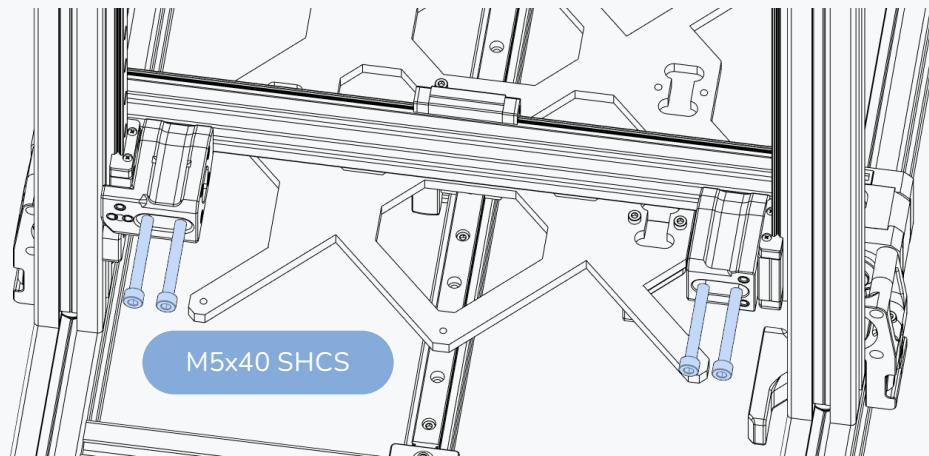




X AXIS INSTALLATION

Lightly tighten the M5x40 bolts and align the X axis horizontally by moving it all the way to the top. Make sure it is centered across the front.

Hold the X axis against the stoppers and fully tighten the bolts. Move the axis up and down and check for binding.



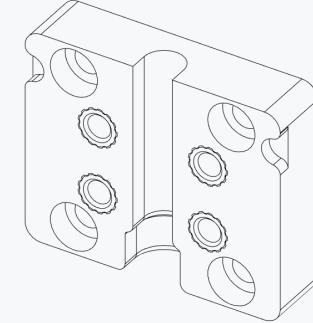
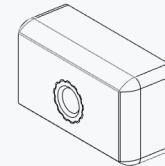
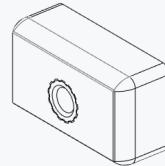
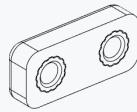
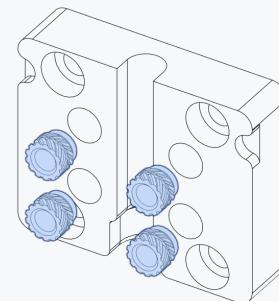
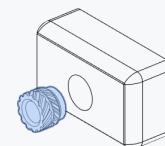
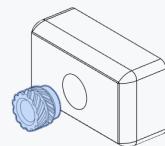
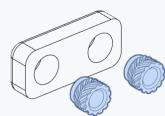
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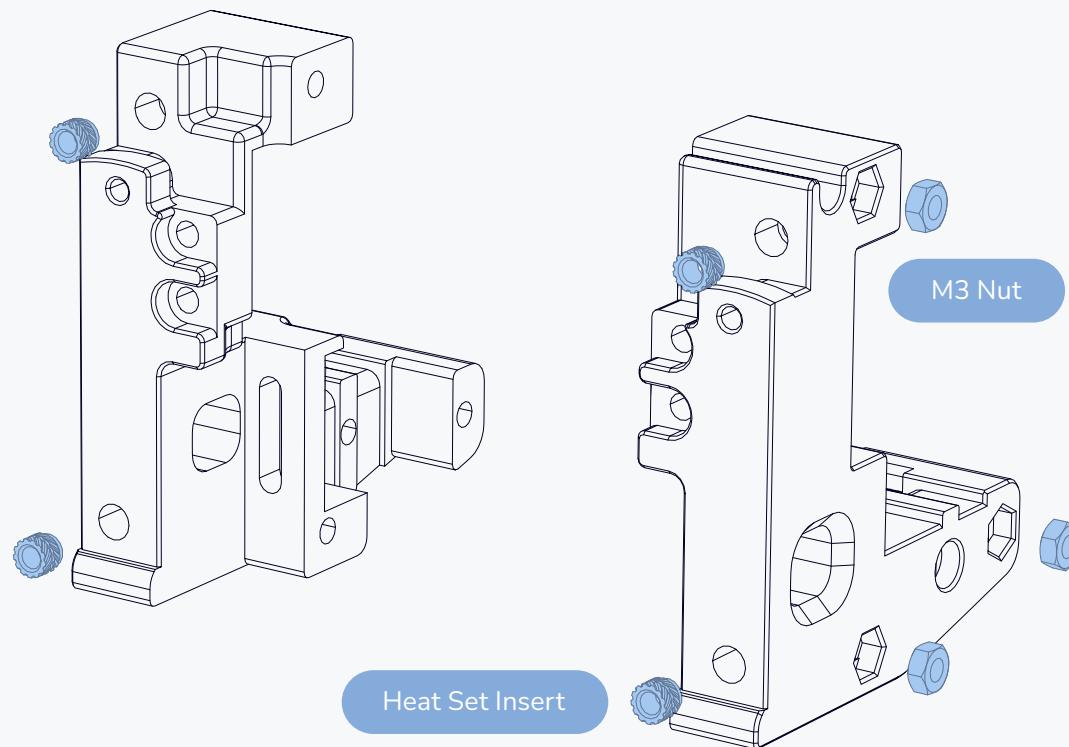
X CARRIAGE

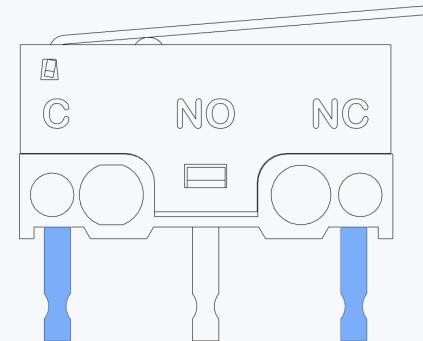
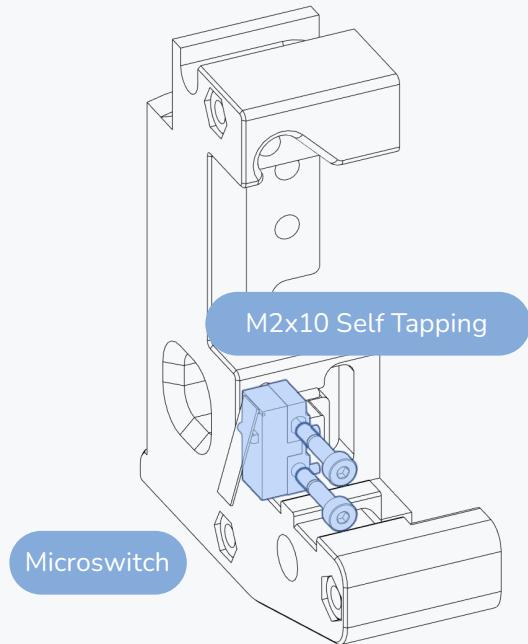
VORONDESIGN.COM



Heat Set Insert







END-STOP SWITCHES FOR X AND Y

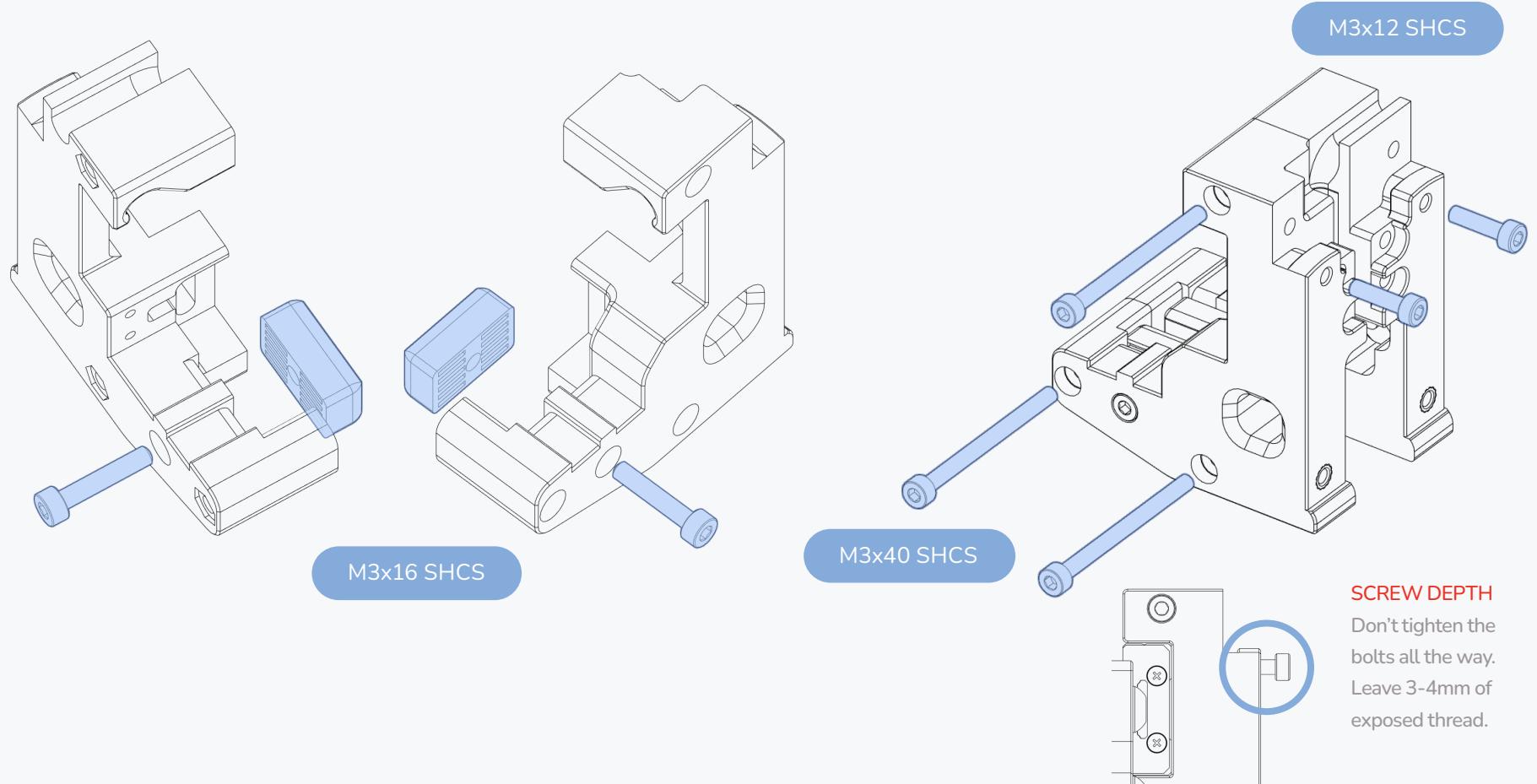
End-stops are wired in a “Normally Closed” configuration. On microswitches those are the 2 outer terminals indicated by C and NC.

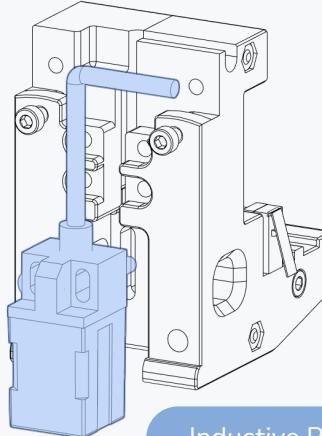
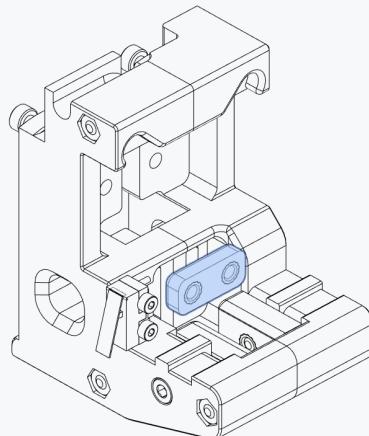
Prepare the switches for X by soldering 150mm of wire to each of the outer terminals.

PRESOLDERED WIRES



Route the wires through the slot to the front of the carriage. Only attach the connector on the crimps after you routed them to the front.





PROBE WIRES

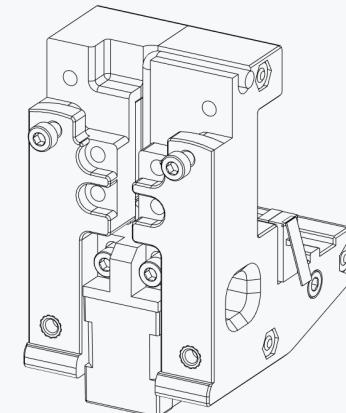
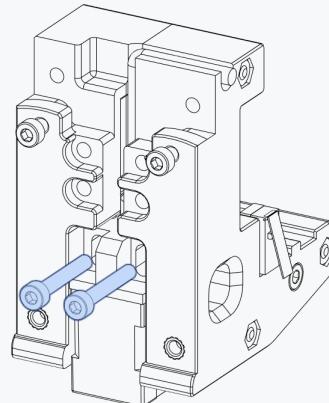
Unless your probe comes preterminated cut the probes wires to about 15cm. Don't cut them flush with the carriage frame.

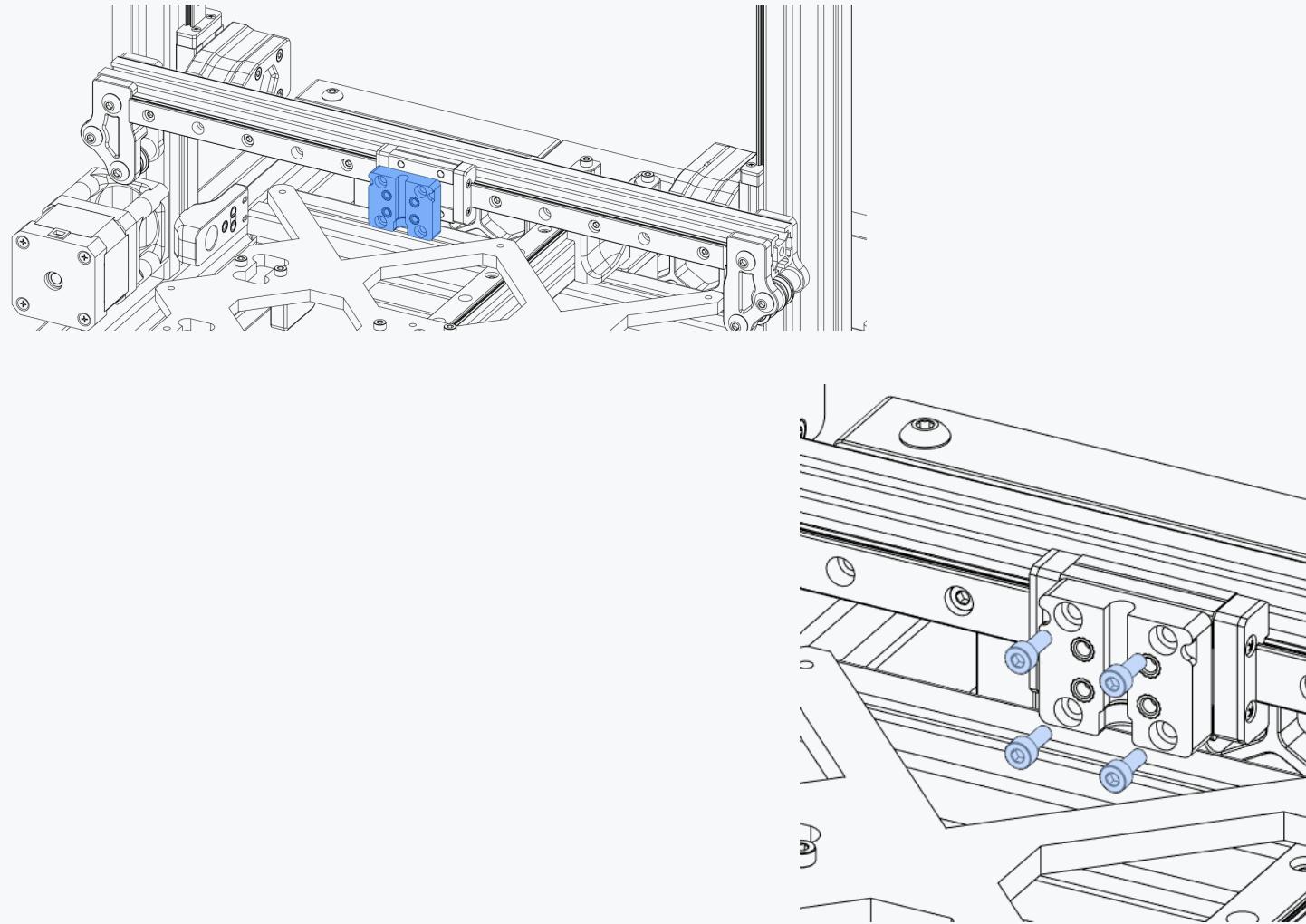
OTHER PROBE TYPES VLDOMOTORS

The picture shows a PL-08 probe. The recommended Omron TL-Q5MC probe will fit in the same space but requires M3x25 SHCS.

Other probes with a similar form factor and characteristics might work as well.

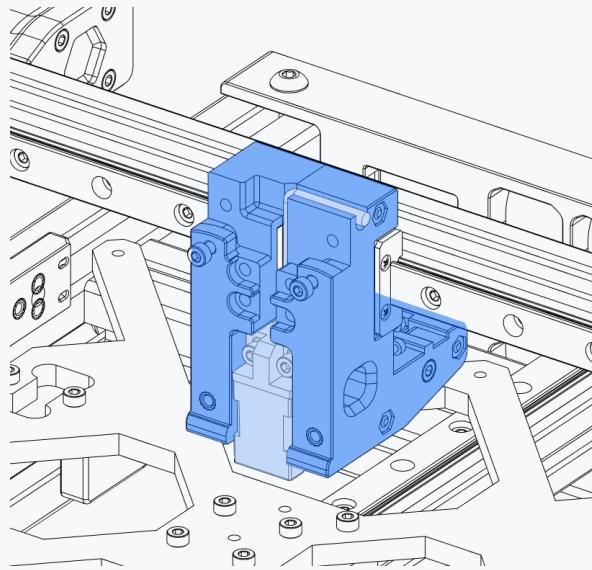
M3x20 SHCS



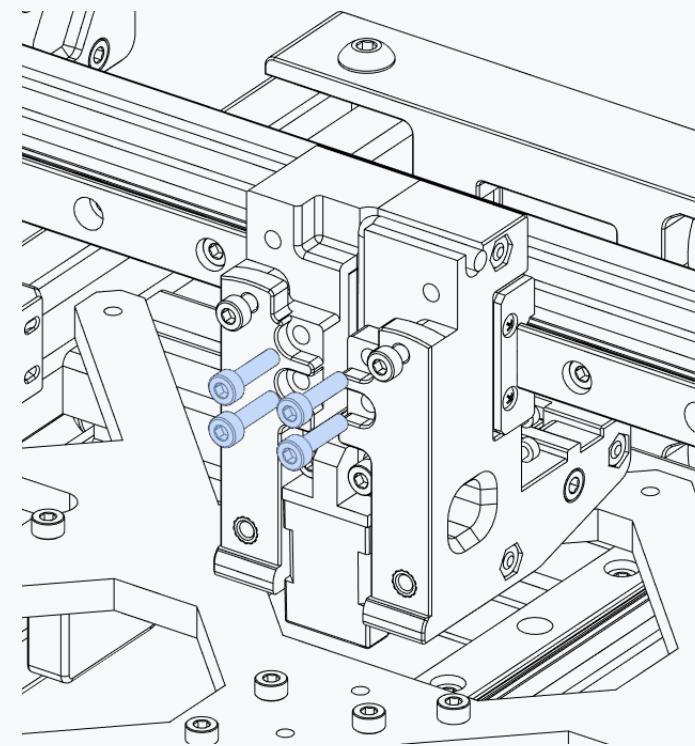


X CARRIAGE

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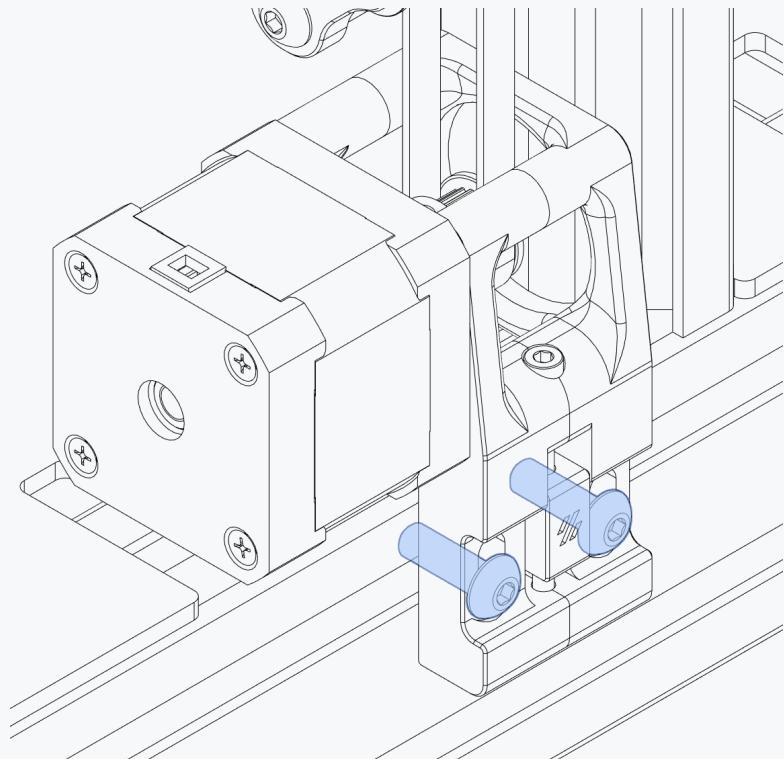


M3x12 SHCS

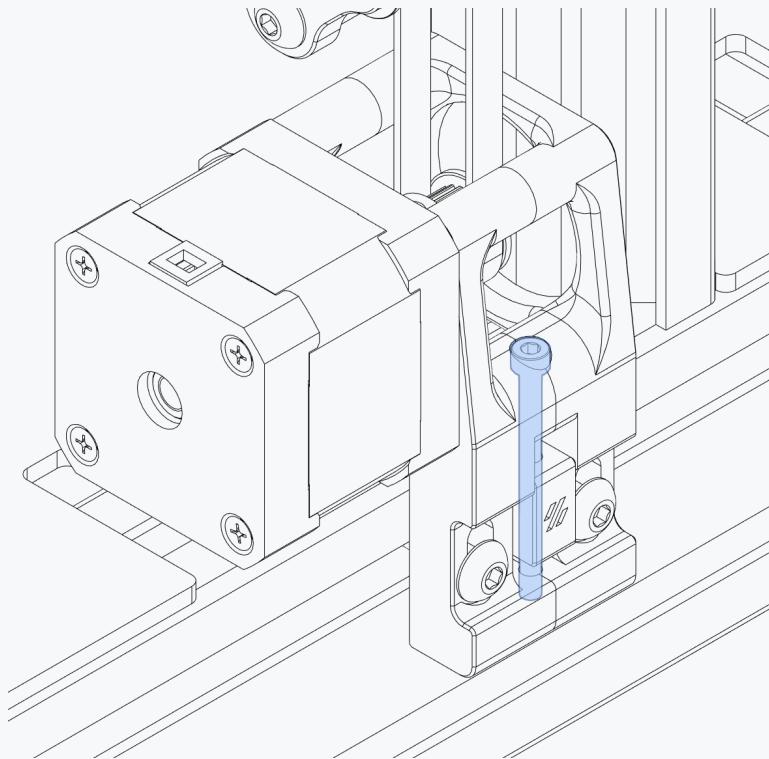


BELT TENTIONER FOR "X" AND "Z"

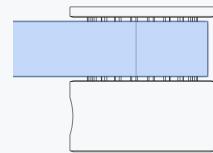
The motor mounts for the "X" and the "Z" motors have build in tentioners.

**LOCK SCREWS**

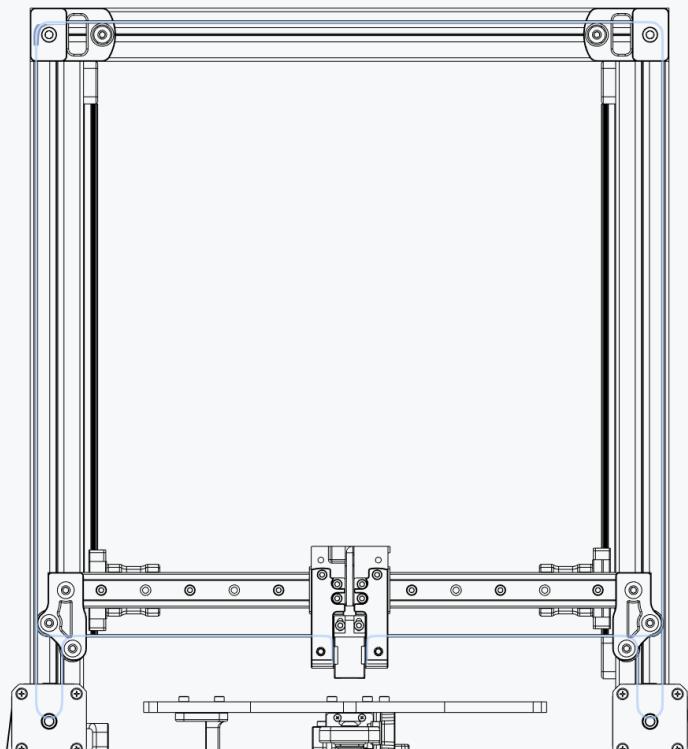
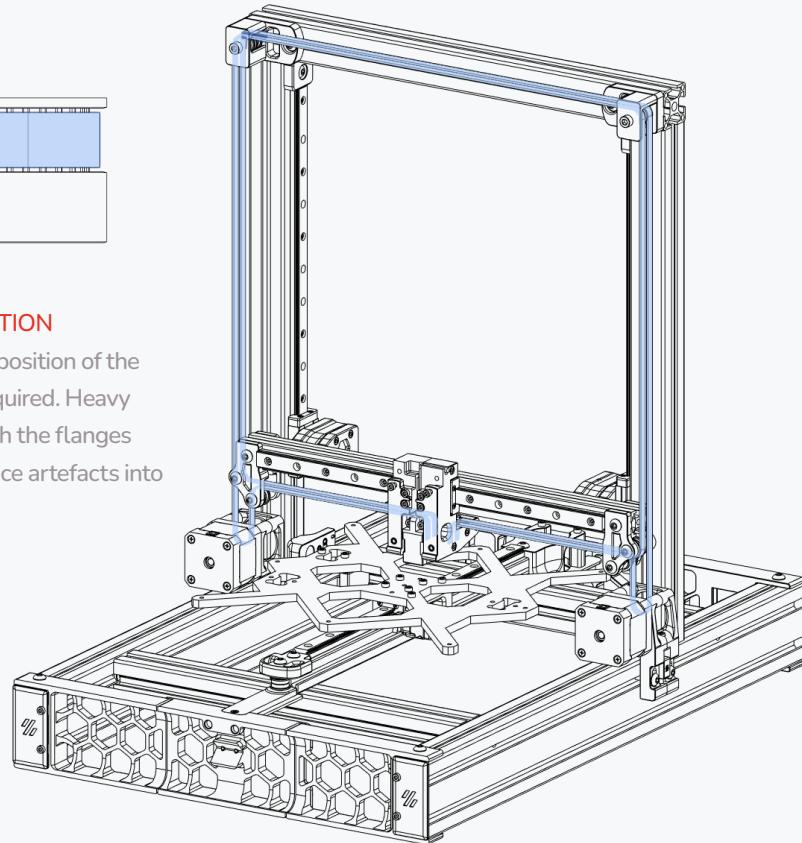
Slightly loosen these screws before adjusting the belt tension. Fasten them again after adjusting the tension.

**ADJUSTMENT SCREW**

Turn the screw clockwise to pull a higher tension on the belt.

**BELT POSITION**

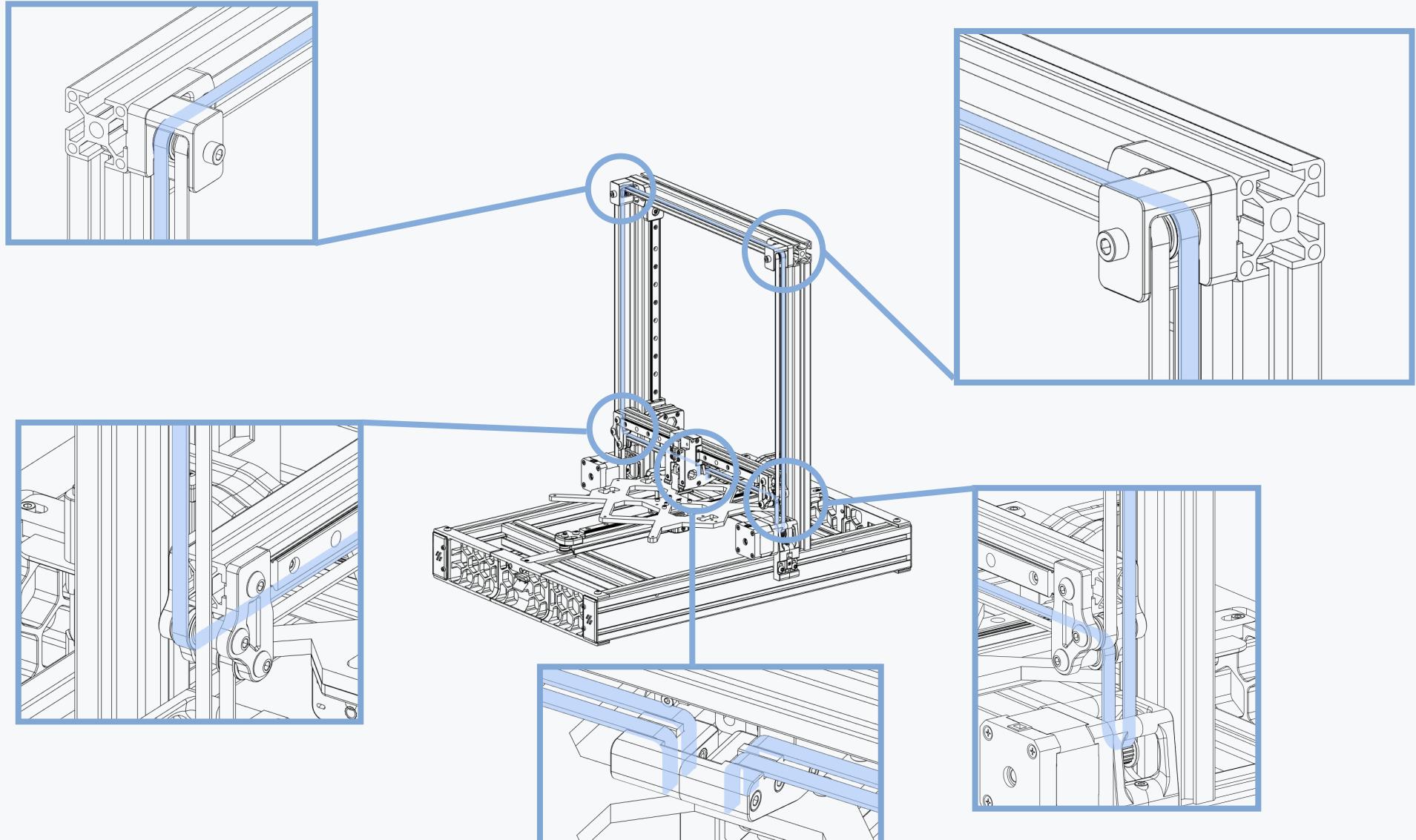
Adjust the position of the pulley if required. Heavy contact with the flanges will introduce artefacts into your prints.

**BELT PATH**

Take your time and make sure your belt routing is as intended.
Belts should never rub on plastic parts.

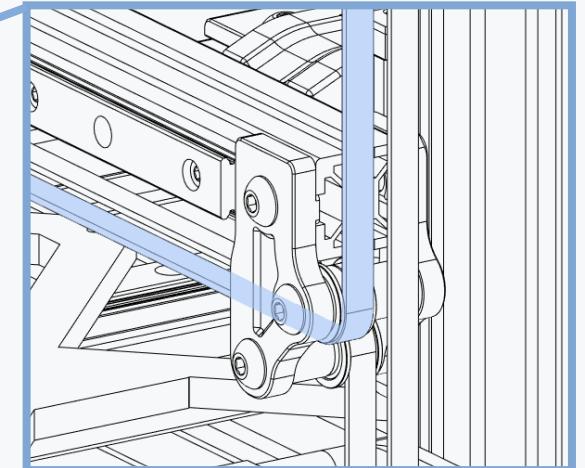
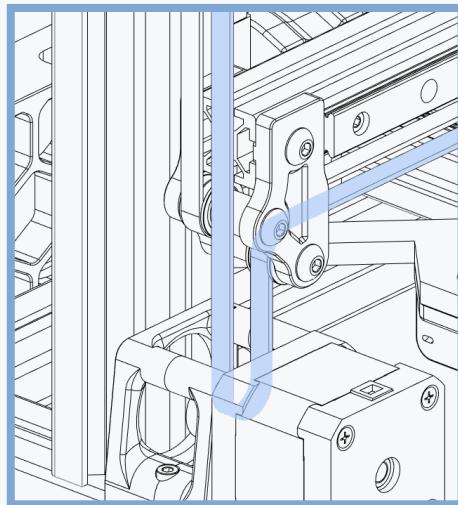
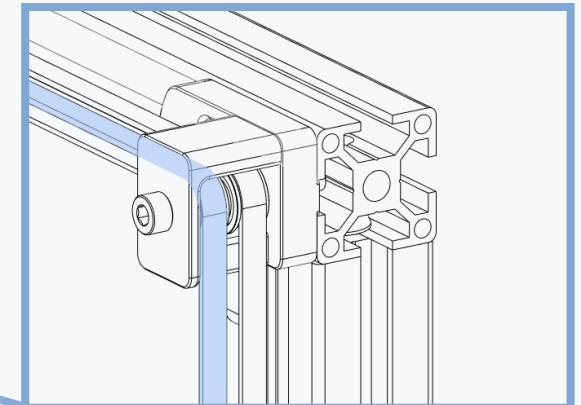
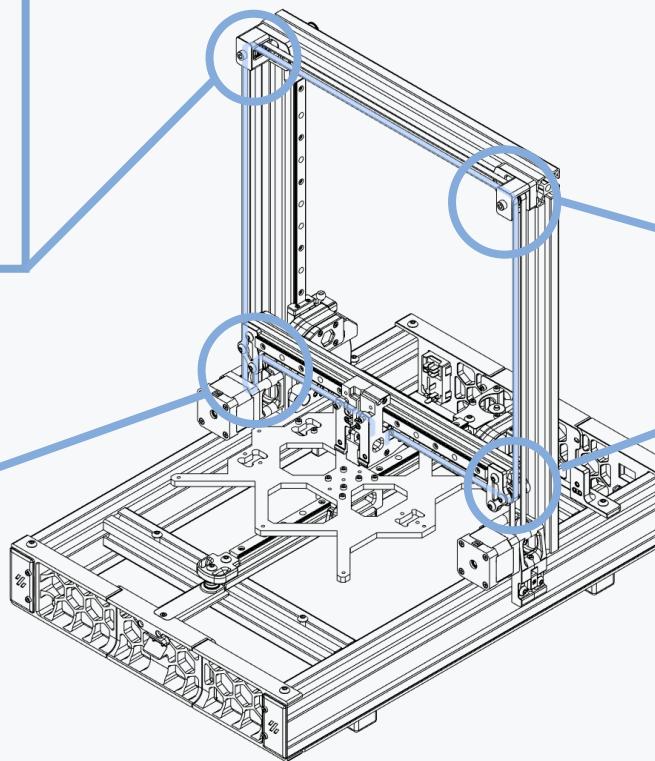
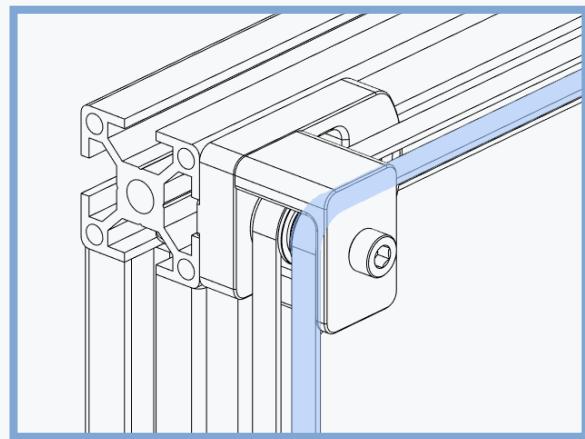
"Z" BELT

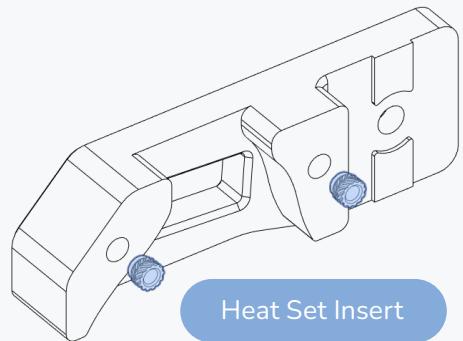
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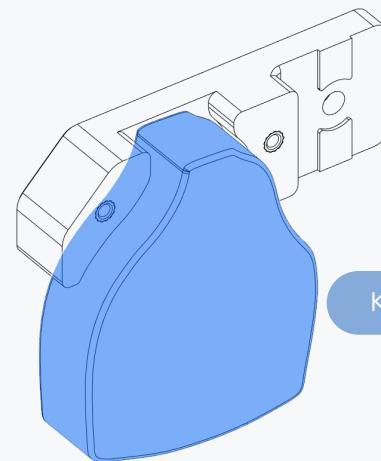
"X" BELT

VORONDESIGN.COM

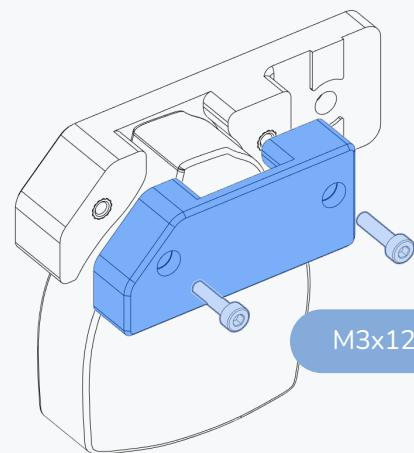




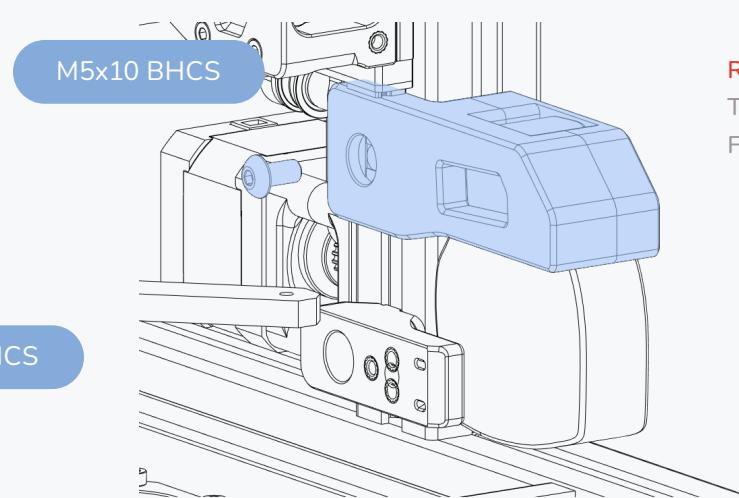
Heat Set Insert



Key-Bak Super 48



M3x12 SHCS



M5x10 BHCS

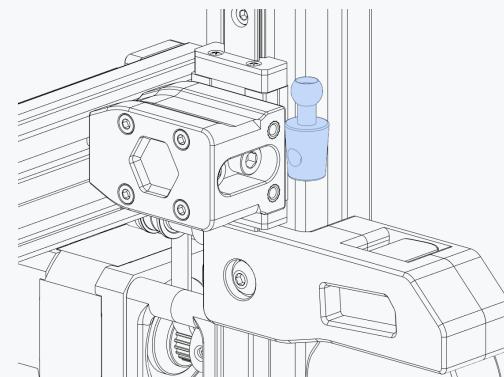
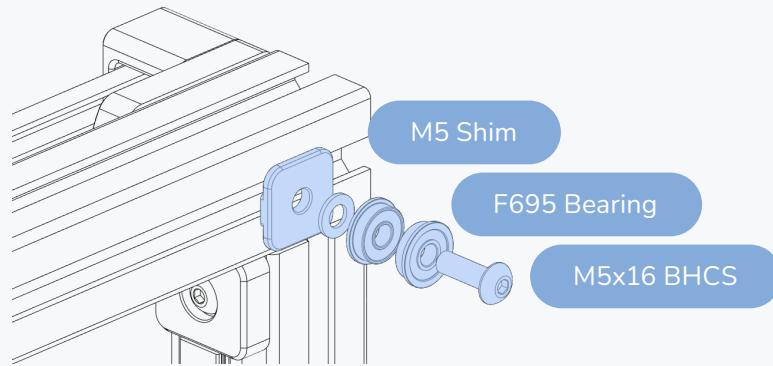
WEAR EYE PROTECTION

The Key-Bak will violently retract if you lose grip of the end piece.

Wear eye protection or a face shield until it is securely mounted.

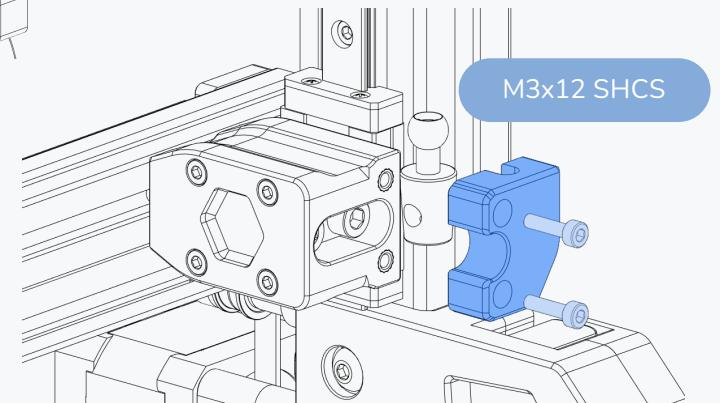
RAIL CARRIAGE

The rail carriage is now secure.
Fully fasten the bottom most bolt.



MOUNTING THE KEYBACK END PIECE

Pull the end piece of the Key-Bak and mount it as shown.
Extend more of the cord and hook it in the idler mounted above.



STEALTHBURNER

VORONDESIGN.COM



UNIVERSAL TOOLHEAD

This printer uses the StealthBurner toolhead, which is compatible with several of the printers in the Voron lineup.

To keep things organized, StealthBurner's files are maintained separately. Follow the StealthBurner assembly manual to build your toolhead, and return here to proceed.

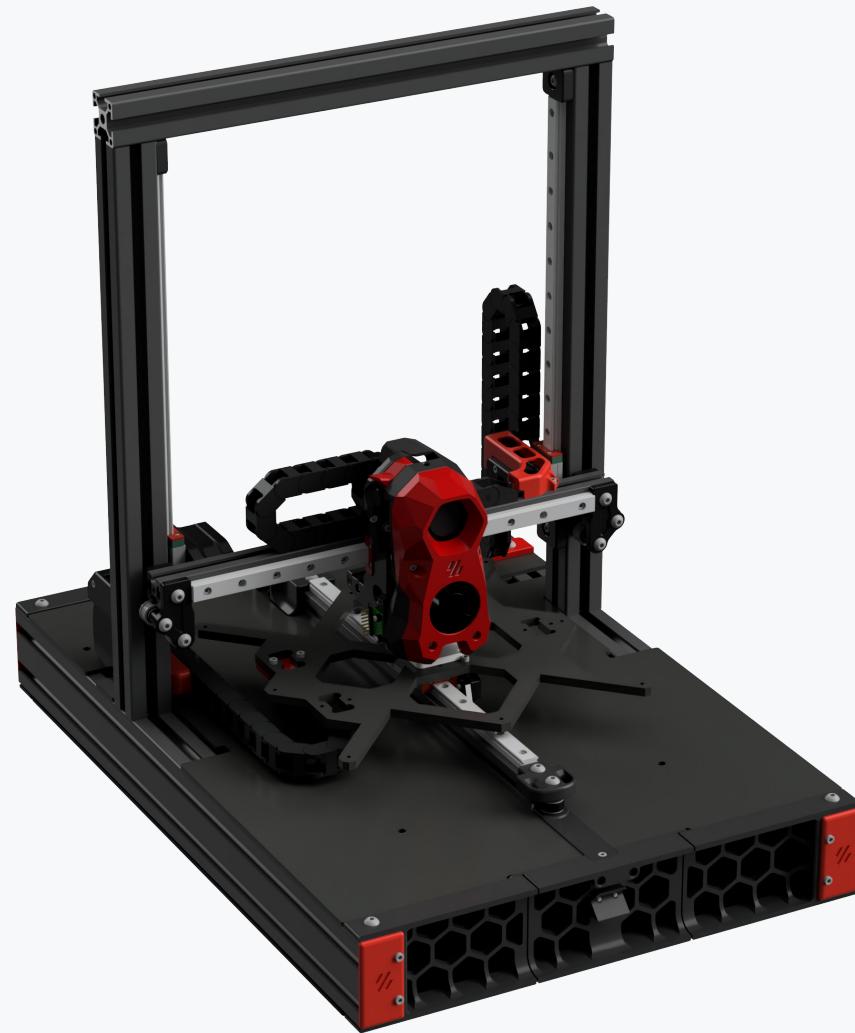


<https://voron.link/6hbi9n3>



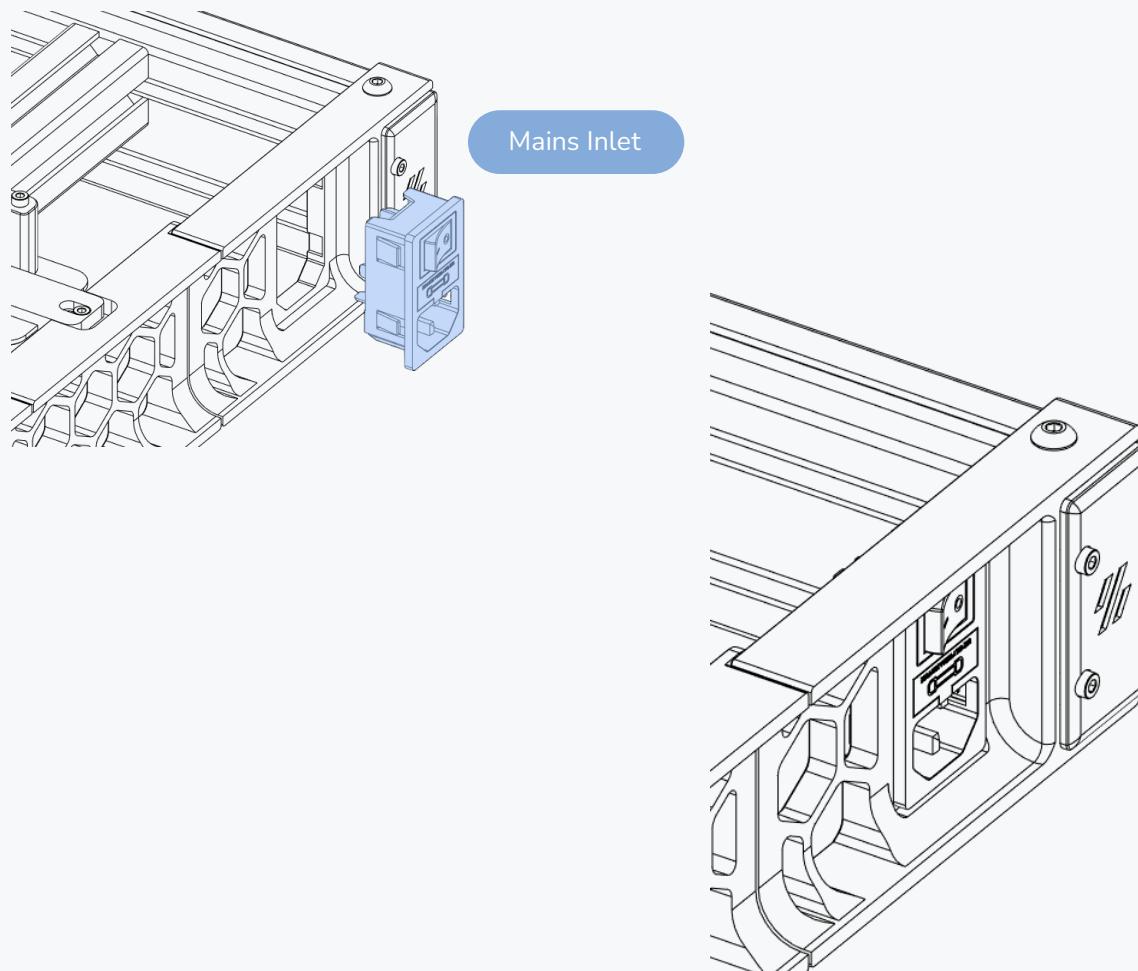
ELECTRONICS AND PANELS

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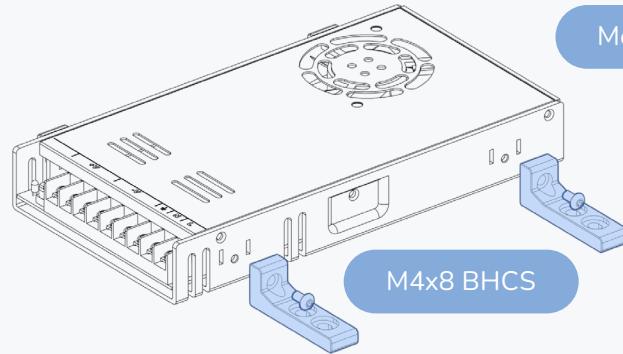
MAINS INLET

VORONDESIGN.COM

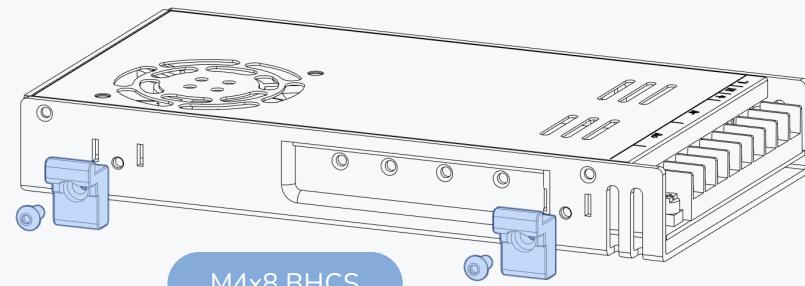


MAIN PSU

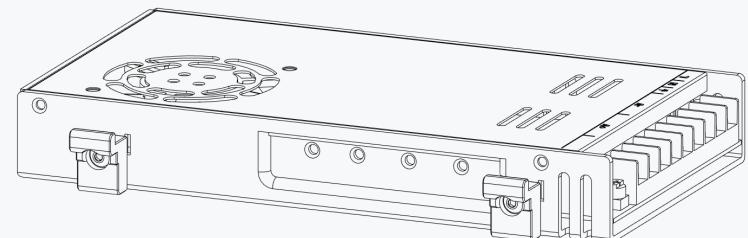
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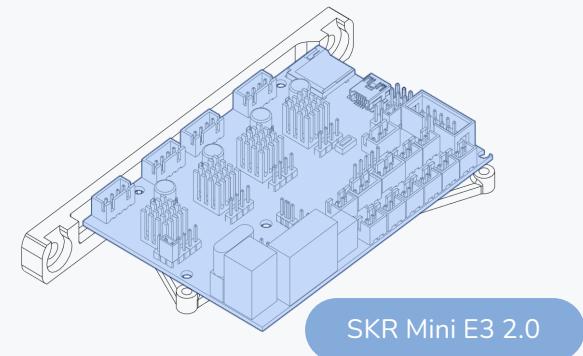
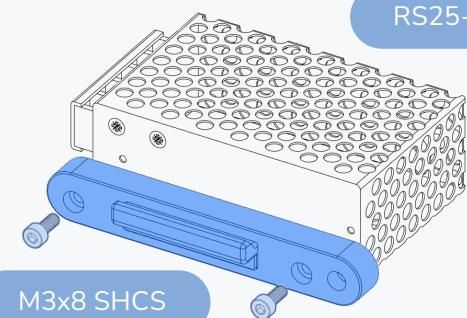
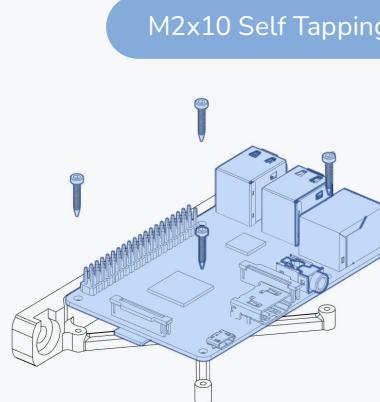


Meanwell LRS350-24

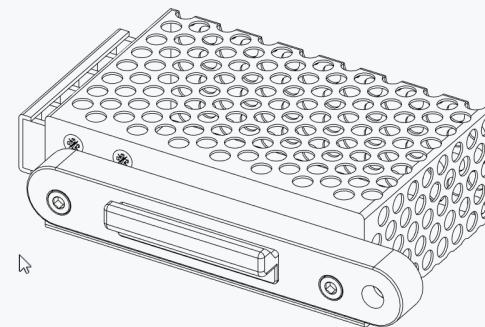


M4x8 BHCS

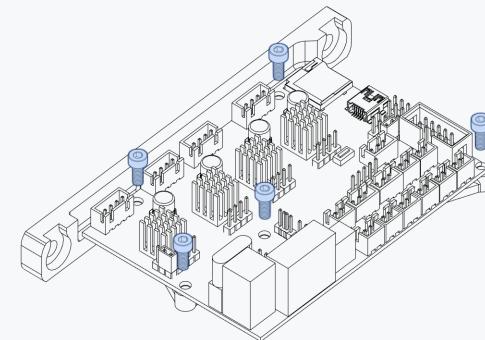




Dunar's Cursor

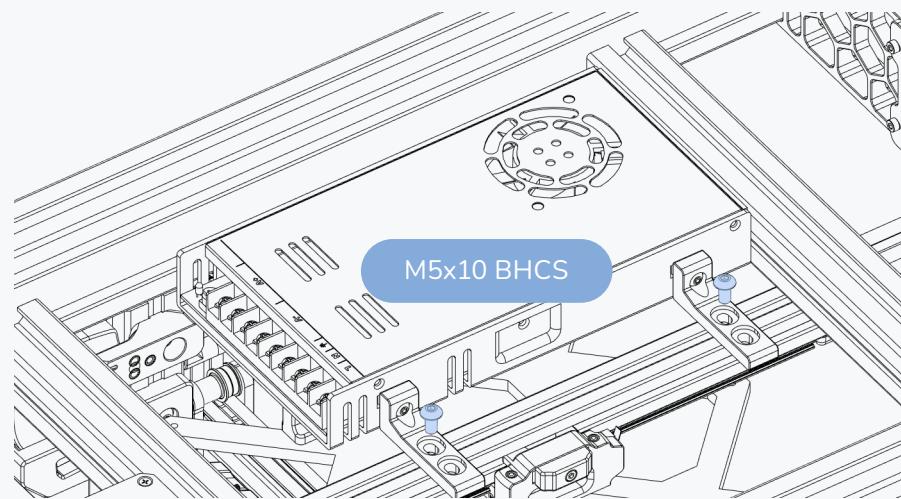
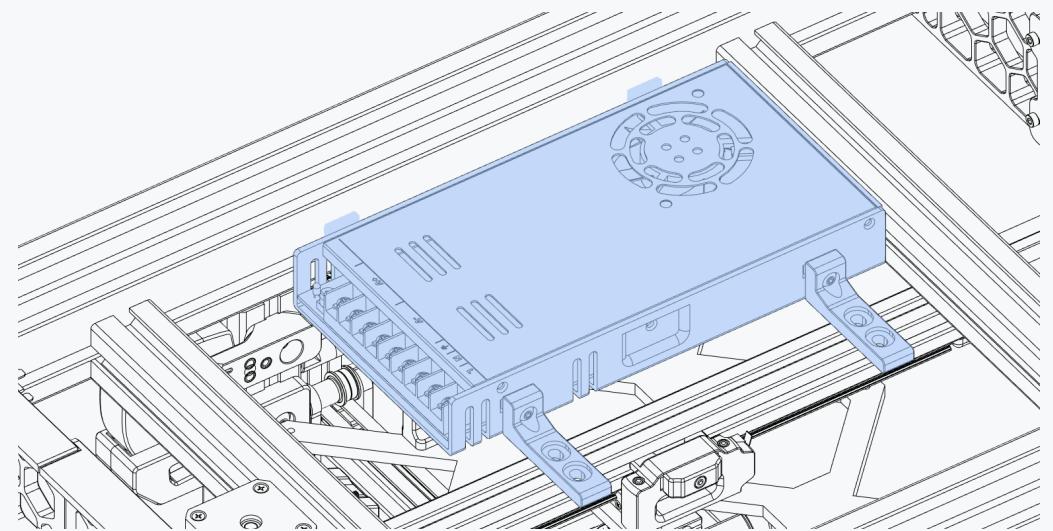
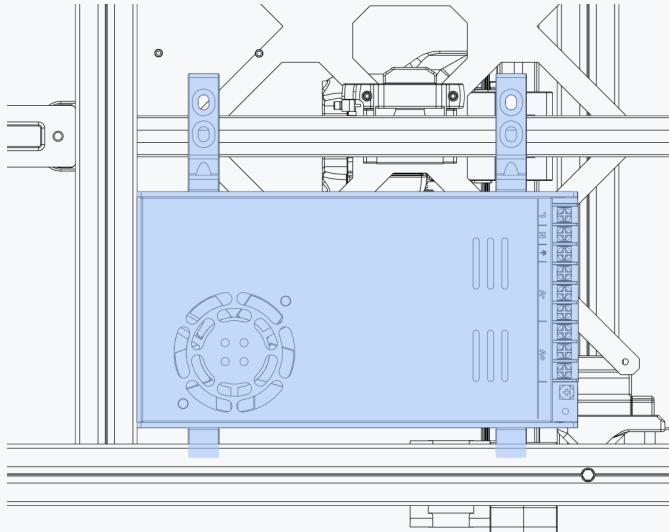


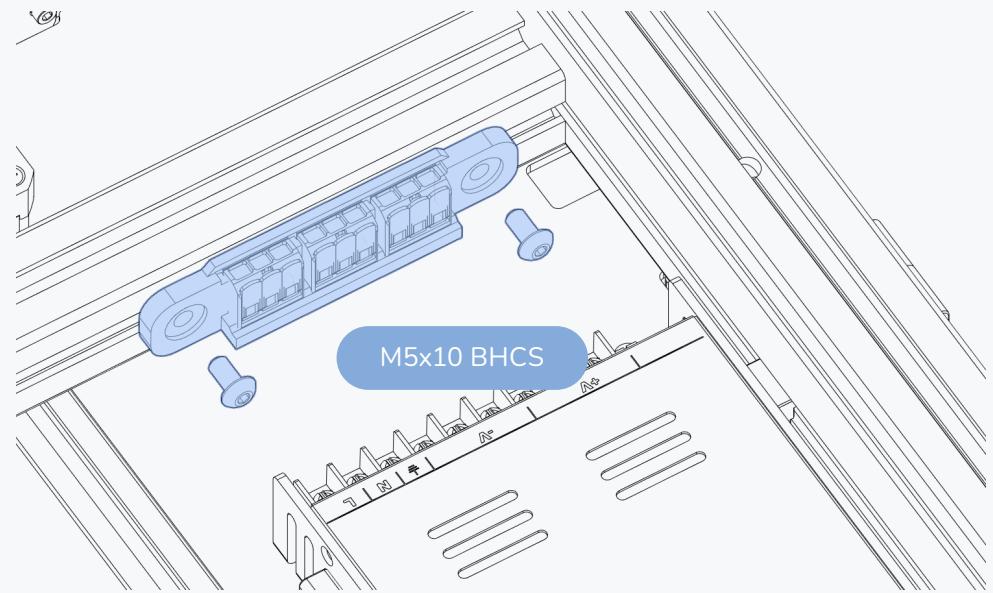
M3x8 SHCS



PSU INSTALLATION

VORONDESIGN.COM



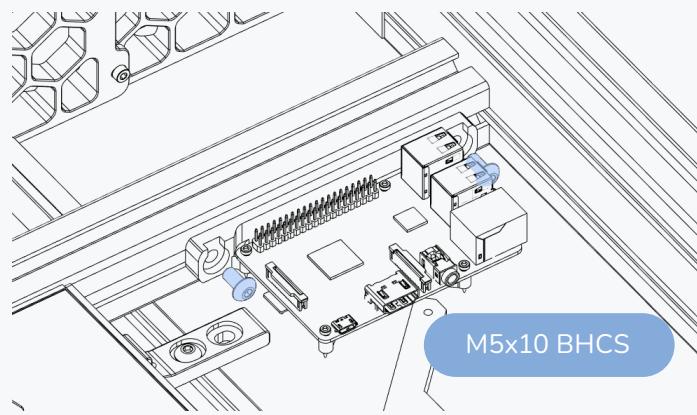
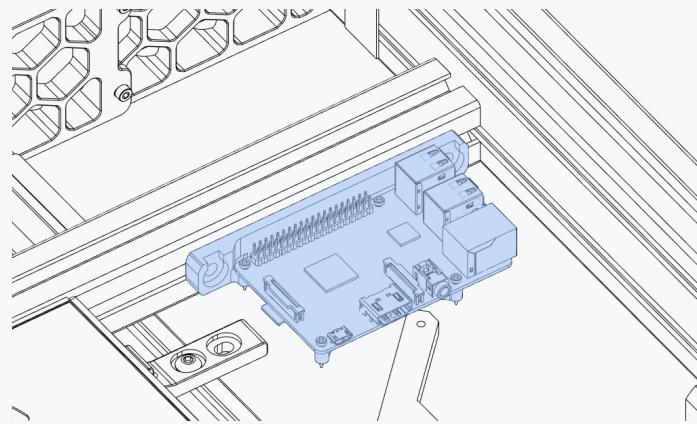
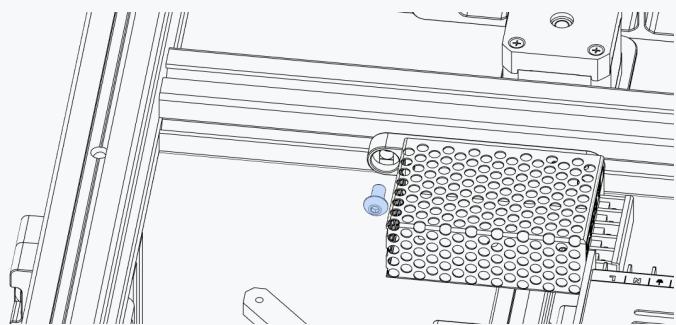
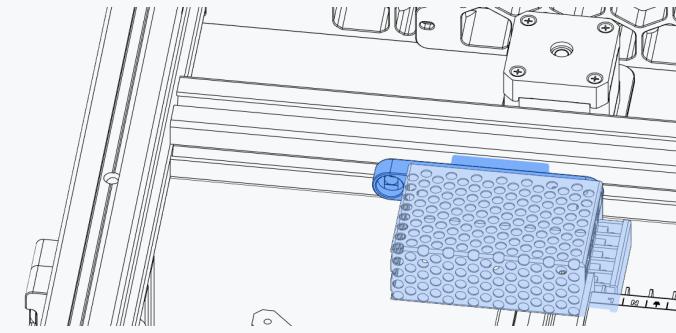


OPTION: WAGO TERMINAL STRIP  ILDO MOTORS

WAGO 221 series clamps can be used to simplify the mains wiring.

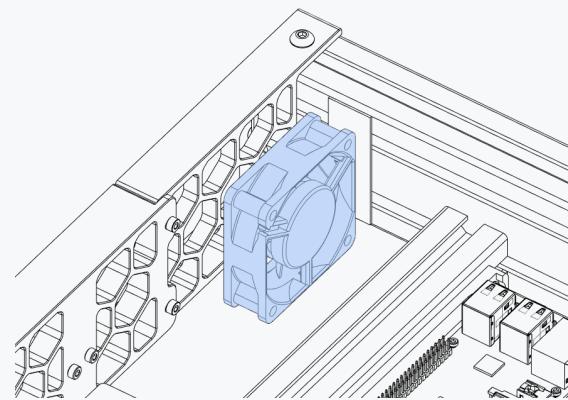
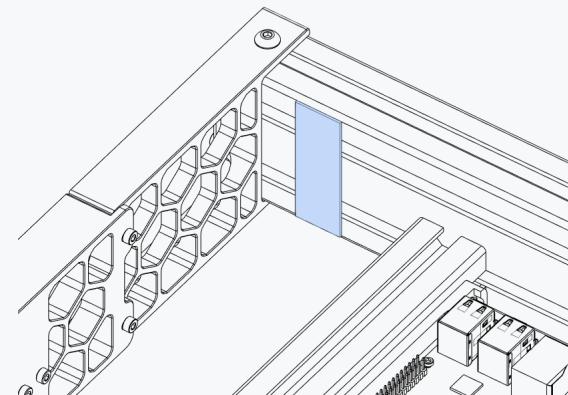
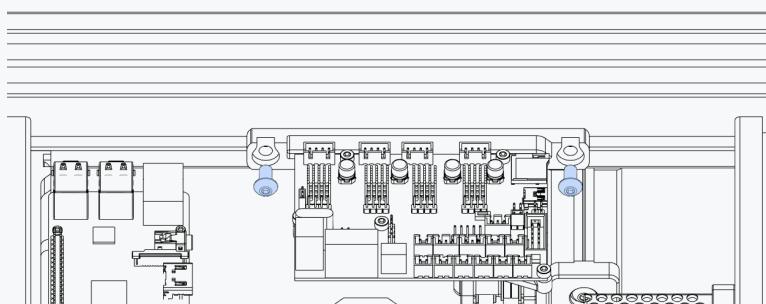
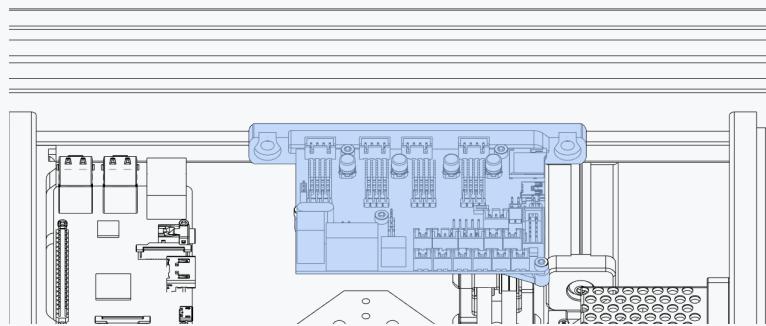
SECONDARY PSU/PI INSTALLATION

VORONDESIGN.COM

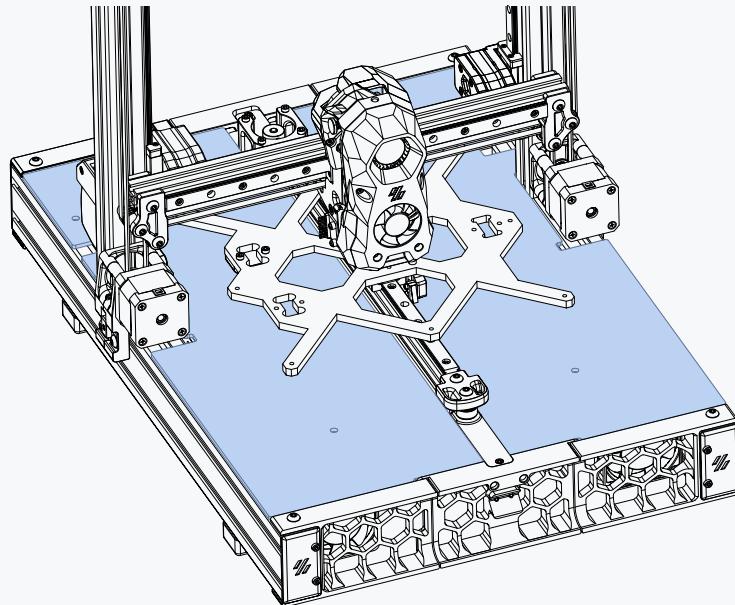


CONTROL BOARD & FAN INSTALLATION

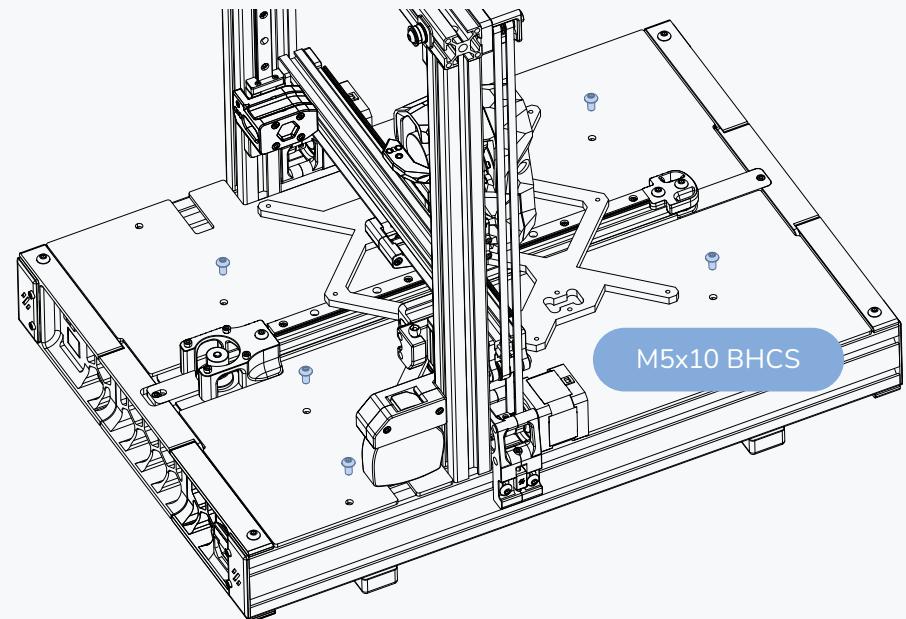
VORONDESIGN.COM



6020 Fan

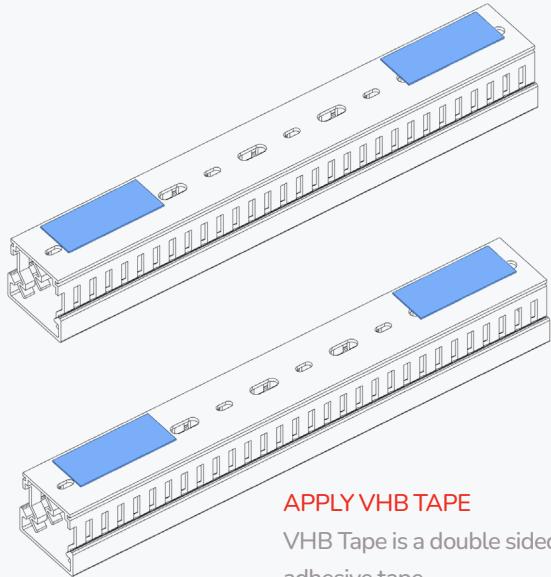
**DECK PANELS**

Unless you installed the panels earlier undo the 6 bolts on the bed carriage and remove the bed carriage to install the panels.



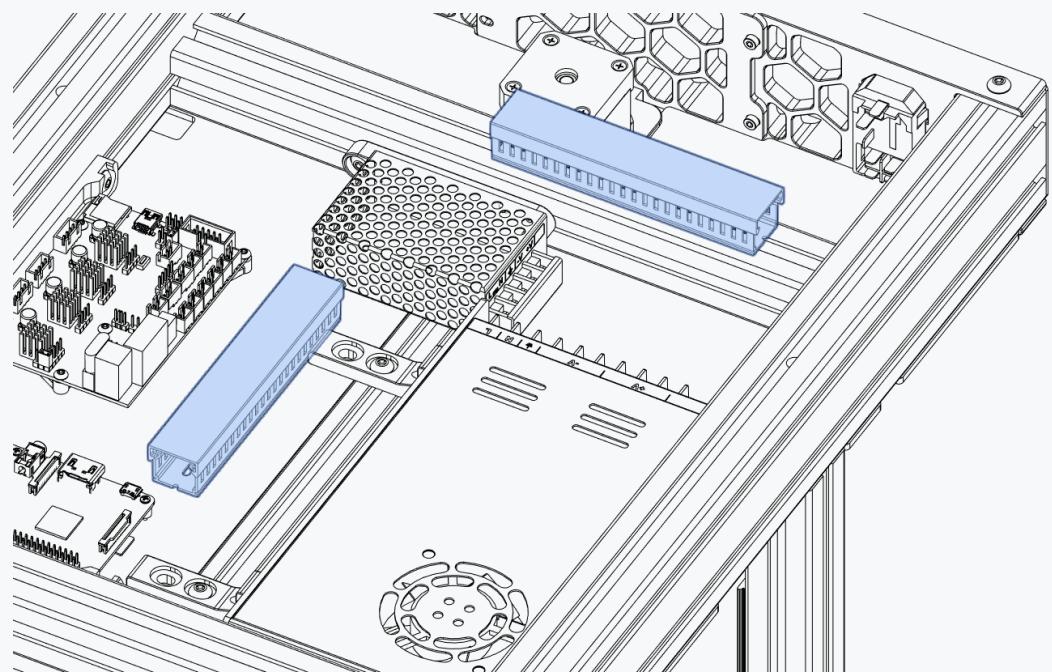
CABLE RACEWAYS

VORONDESIGN.COM



APPLY VHB TAPE

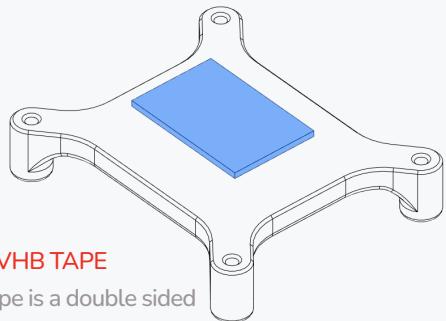
VHB Tape is a double sided adhesive tape.



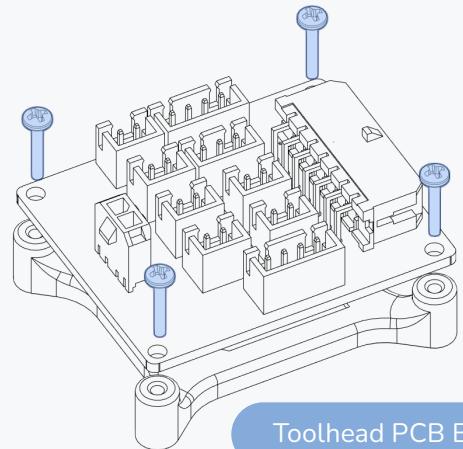
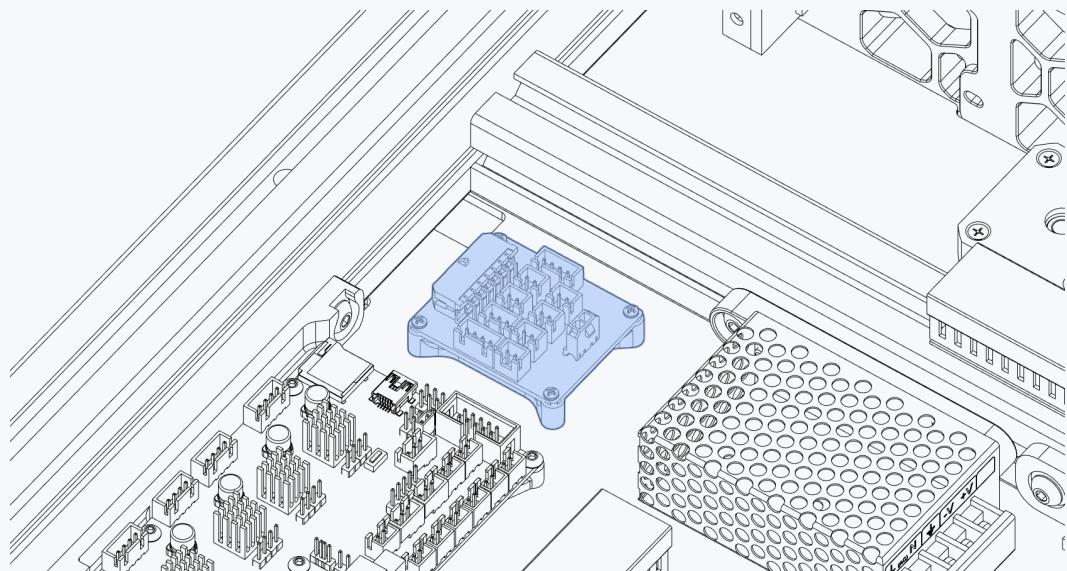
OPTION: CABLE RACEWAYS



Raceways help in keeping the electronics compartment organized and clutter free.

**APPLY VHB TAPE**

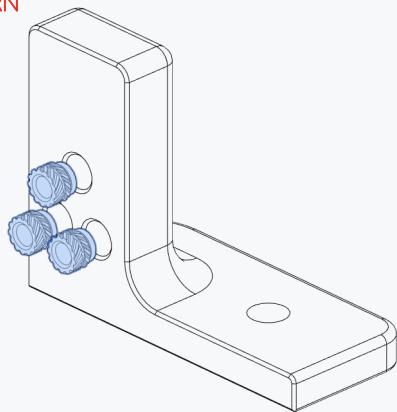
VHB Tape is a double sided adhesive tape.

**Toolhead PCB Breakout Board****OPTION: TOOLHEAD PCB BREAKOUT BOARD**

Some premade wiring harnesses come with a breakout board for the electronics compartment.
If yours did install it now.

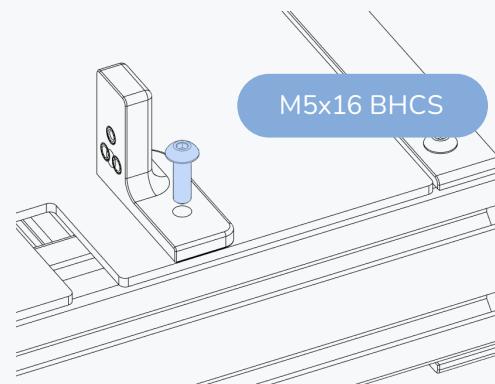
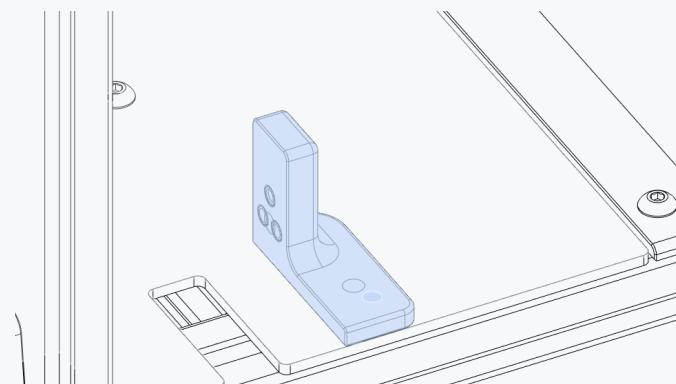
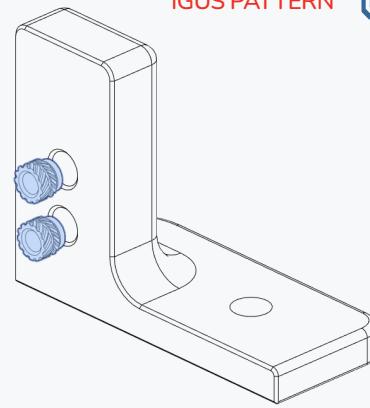
TRIANGLE PATTERN

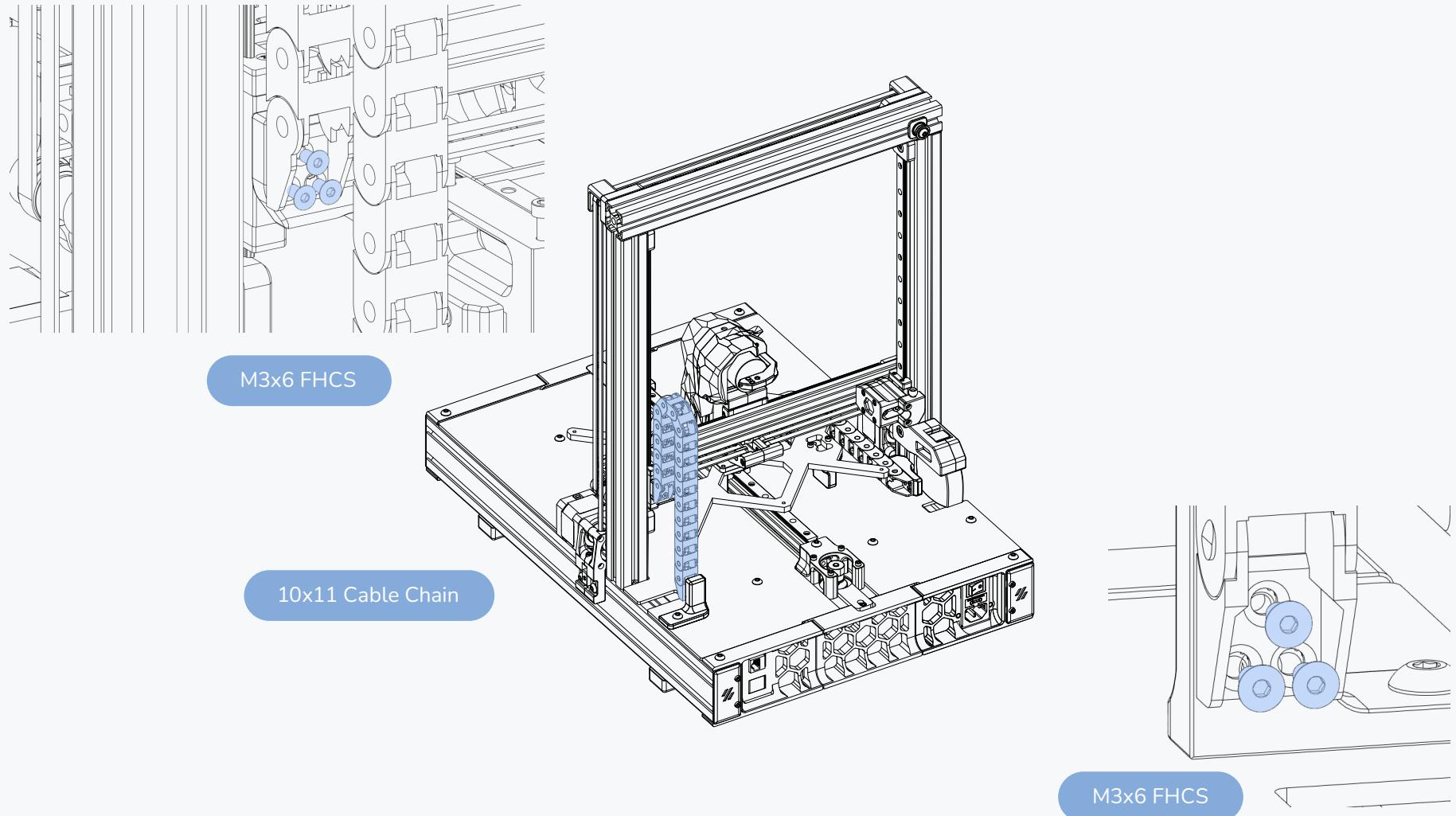
Heat Set Insert

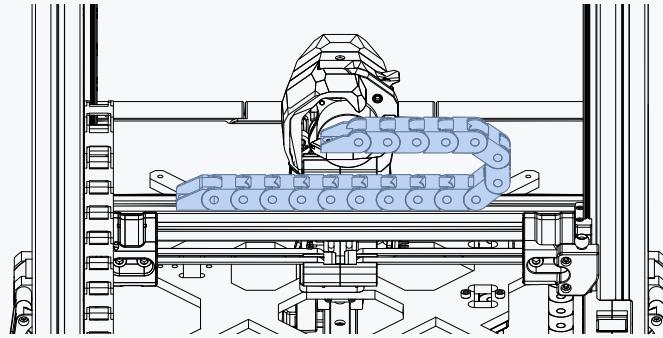


IGUS PATTERN

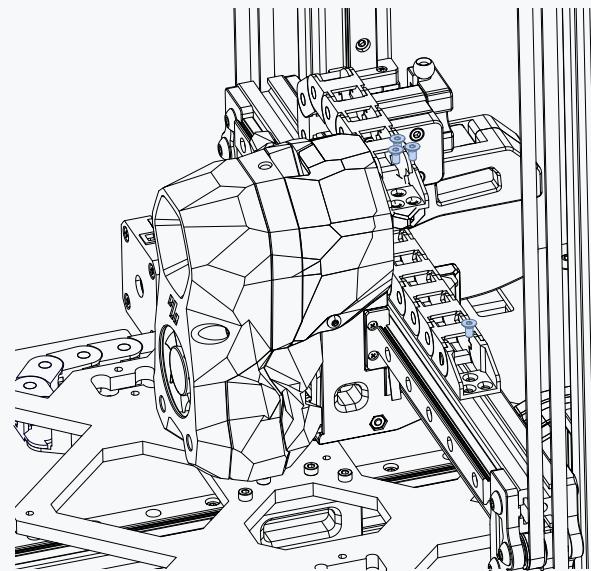
 LDO MOTORS





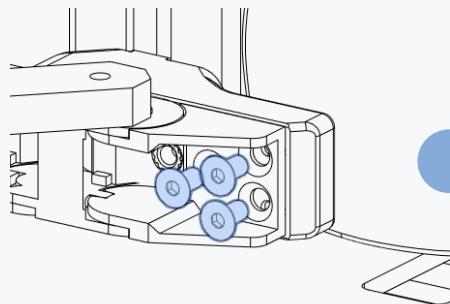


10x11 Cable Chain

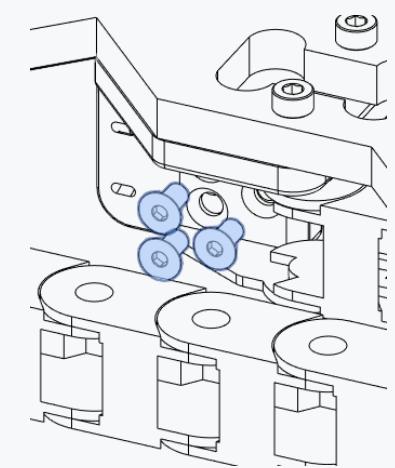
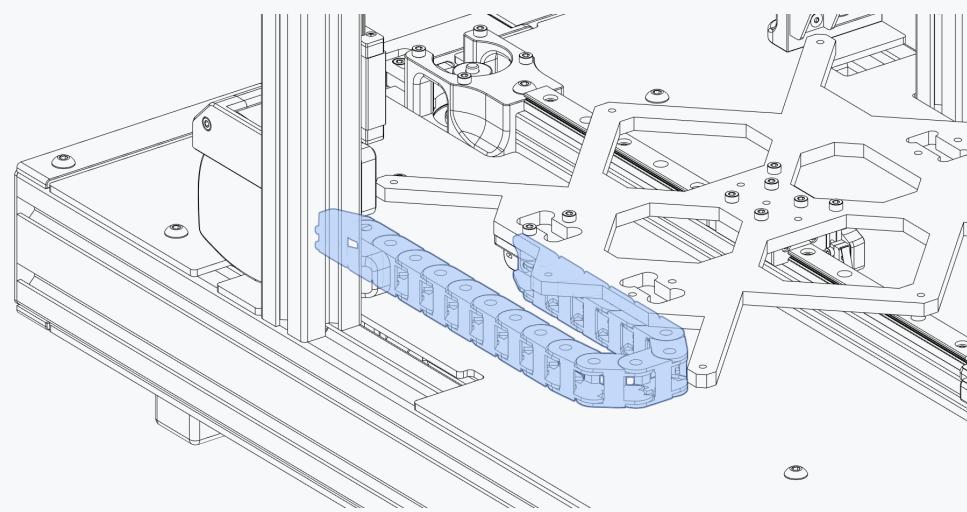


M3x6 FHCS

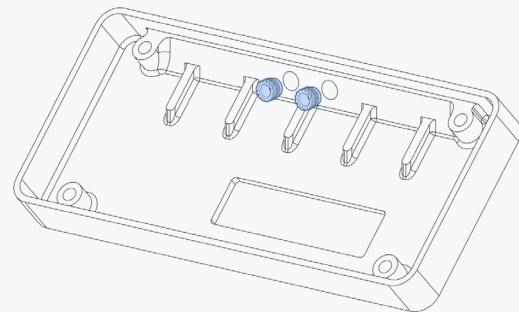
Y CABLE CHAIN



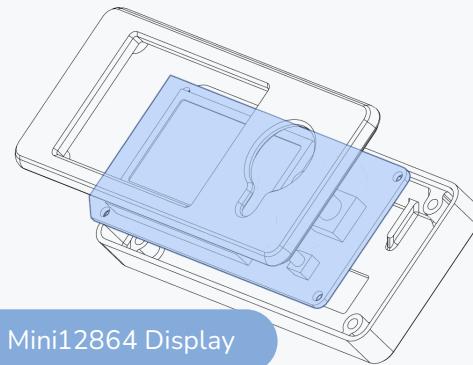
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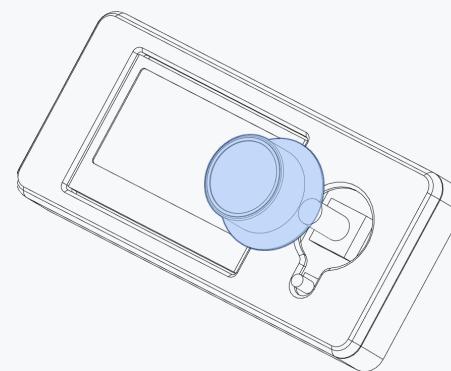
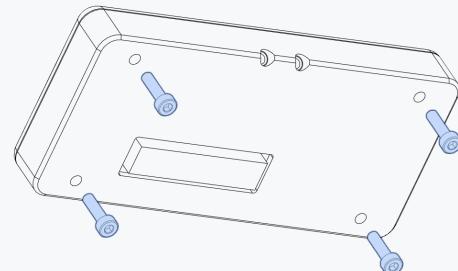
Heat Set Insert

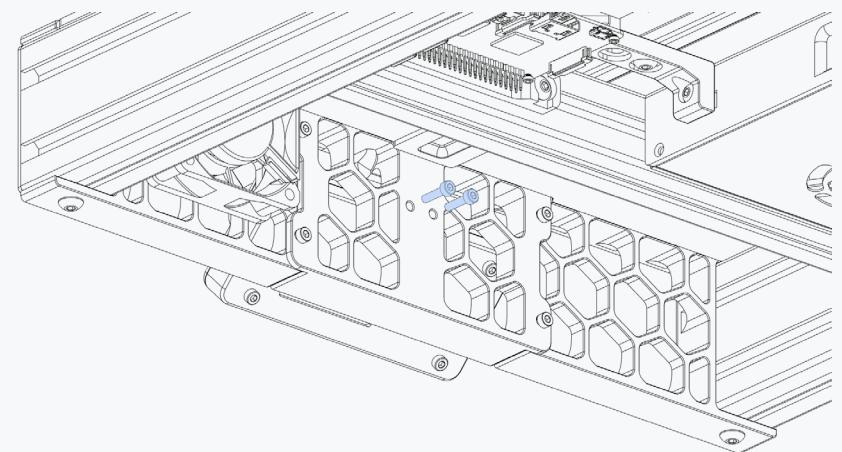
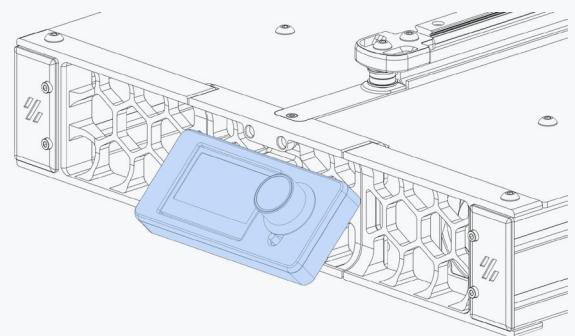
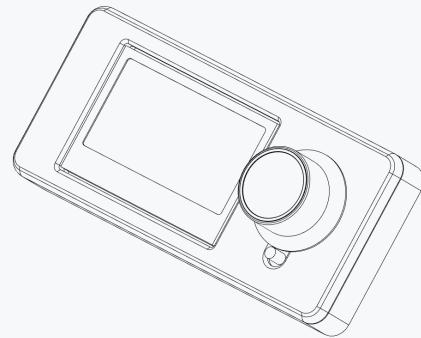


Mini12864 Display

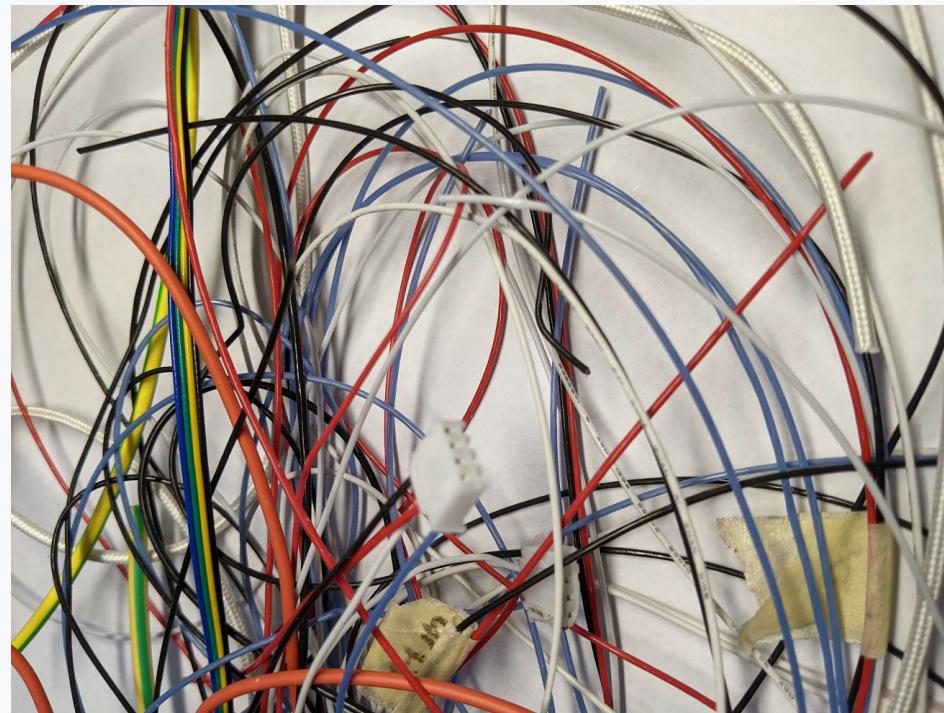


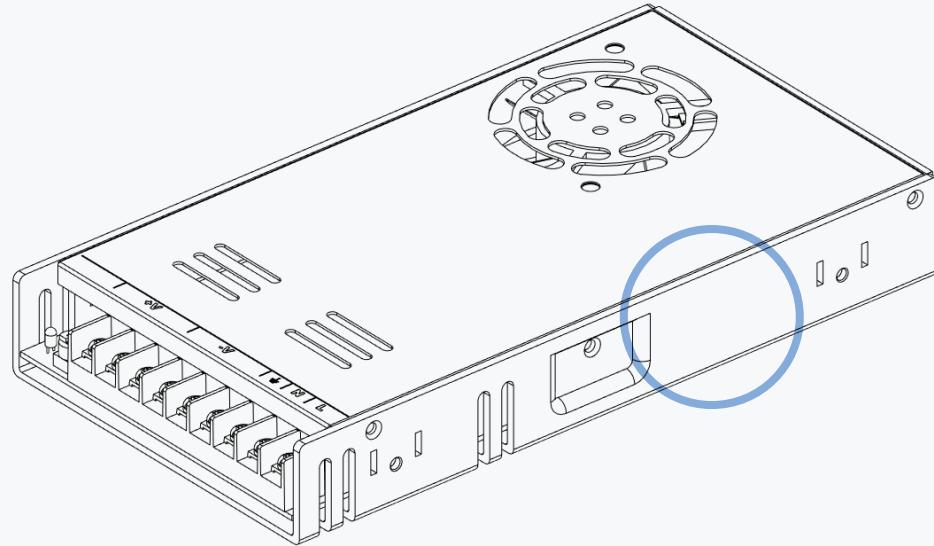
M3x12 SHCS





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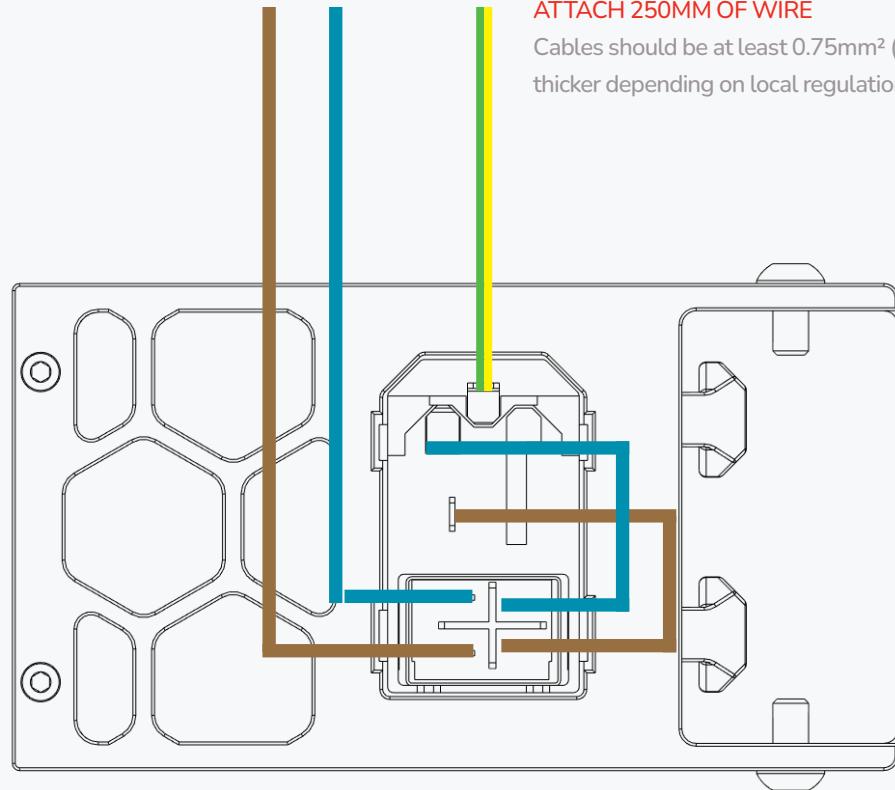




INPUT VOLTAGE SWITCH

Check the input voltage switch of the power supply. It is located in the highlighted area behind the metal mesh.

Make sure the selection matches your local mains voltage. Refer to the Mean Well LRS-350 datasheet for possible settings.



ATTACH 250MM OF WIRE

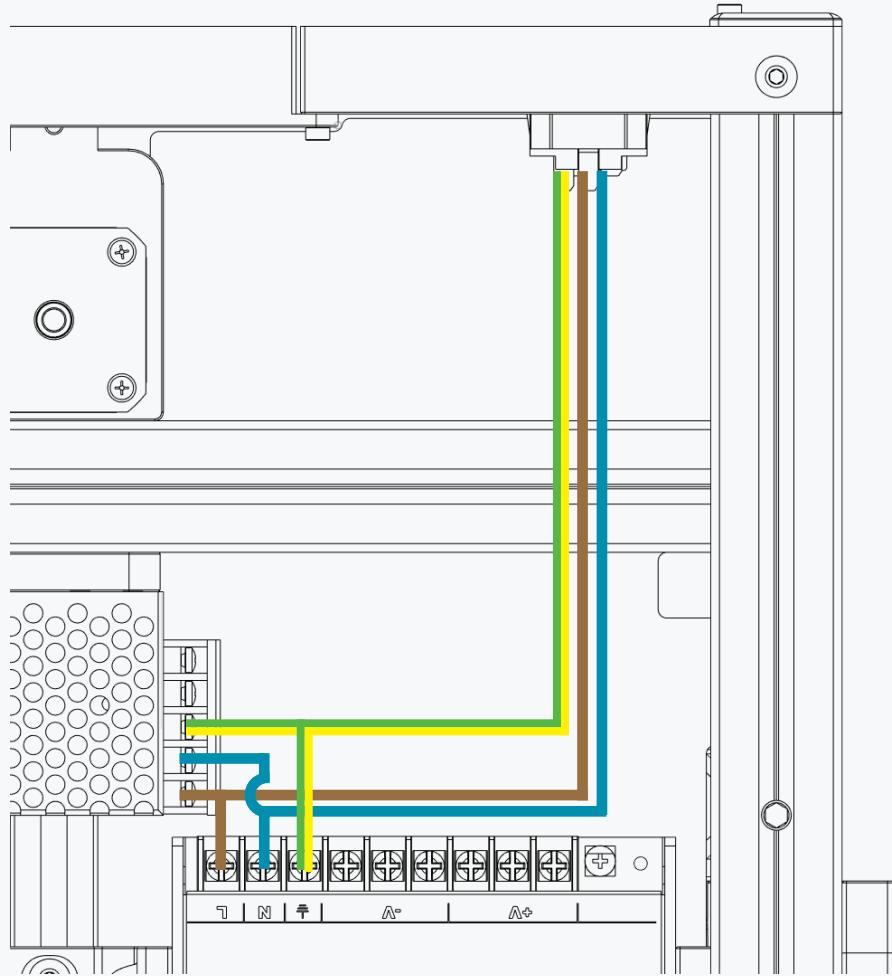
Cables should be at least 0.75mm² (AWG18) or thicker depending on local regulations.

MAINS INLET WIRING

We show the wiring in the IEC colour scheme.
Depending on your region the colour scheme
and wiring standards will differ.

Mains wiring should only be done by qualified personnel trained in local regulations and safety standards.

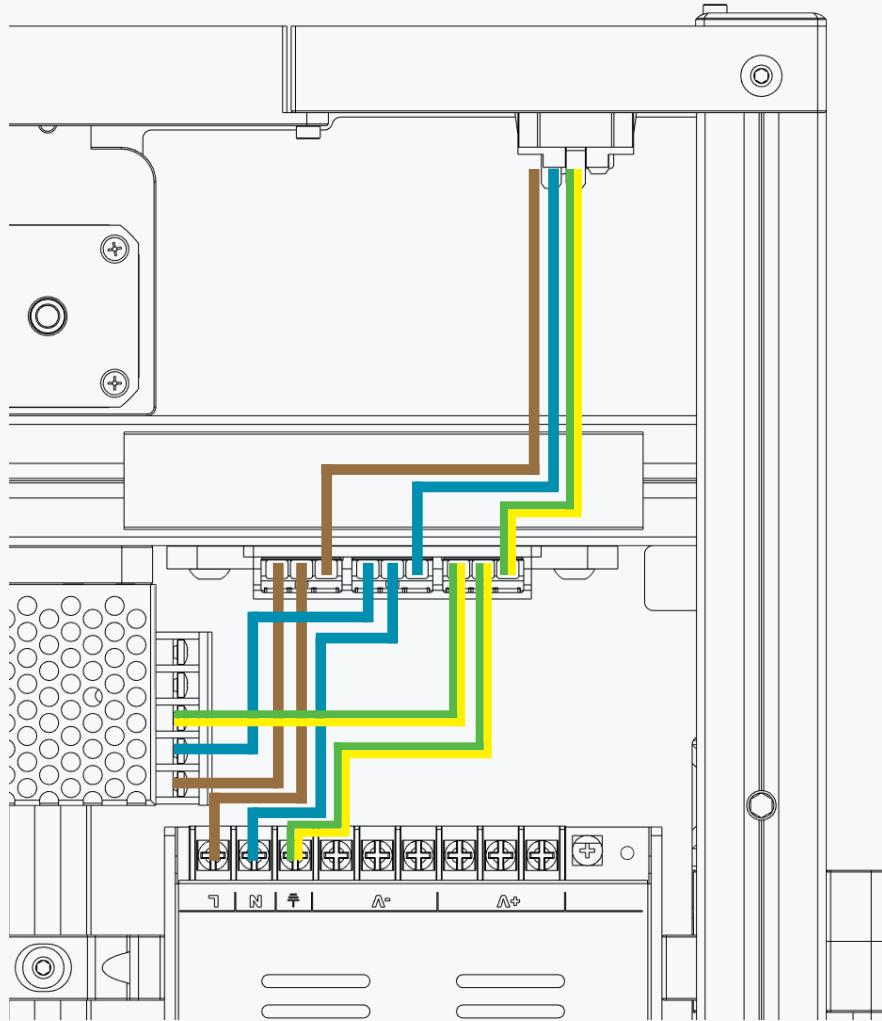
Failure to observe those could result in bodily harm.



MAINS WIRING CONTINUED

Secure the wires with cable clips / cable tie anchors.

Observe your local regulations in regards to grounding the frame/other components.

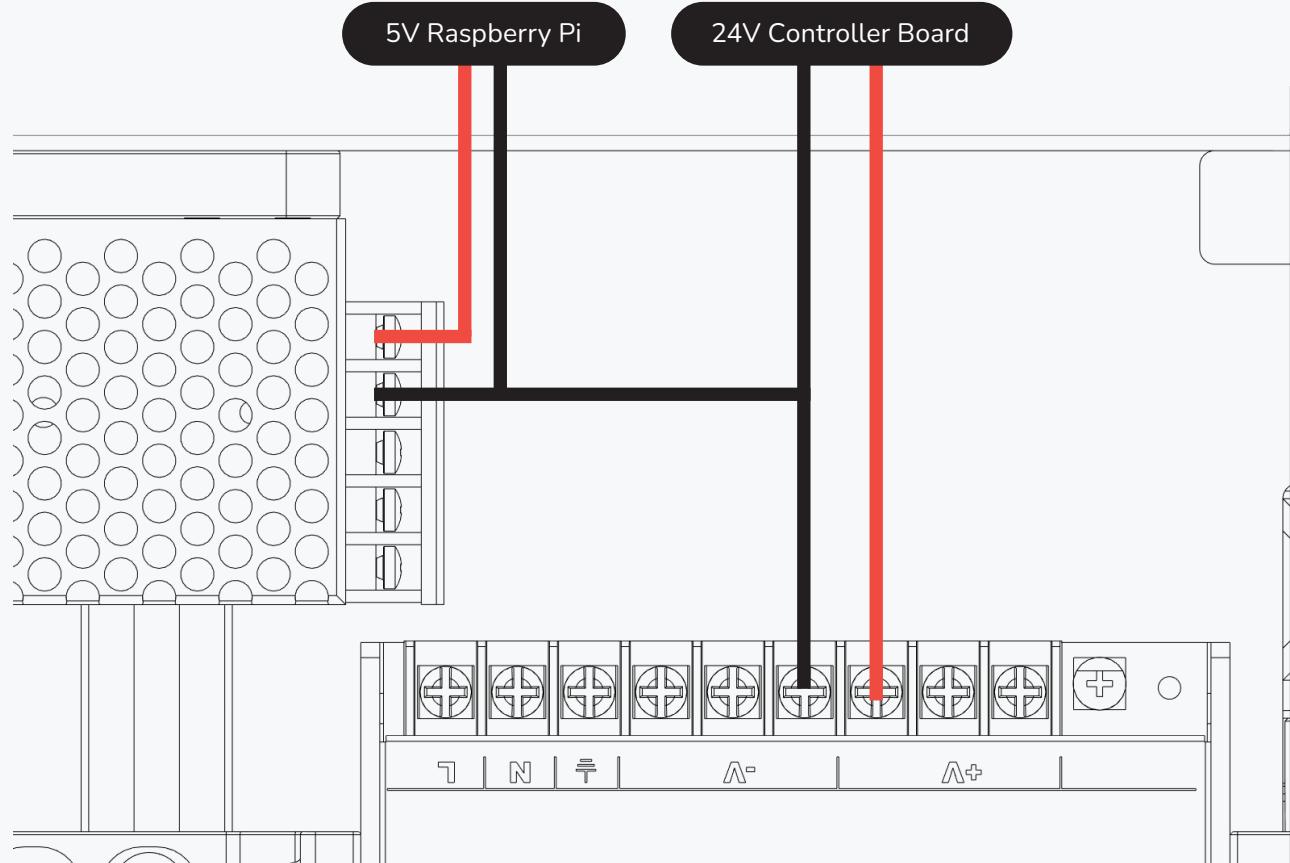


MAINS WIRING CONTINUED



Some vendors provide preprovisioned mains wiring components along.

Observe your local regulations in regards to grounding the frame/other components.

**CABLE CROSS SECTION**

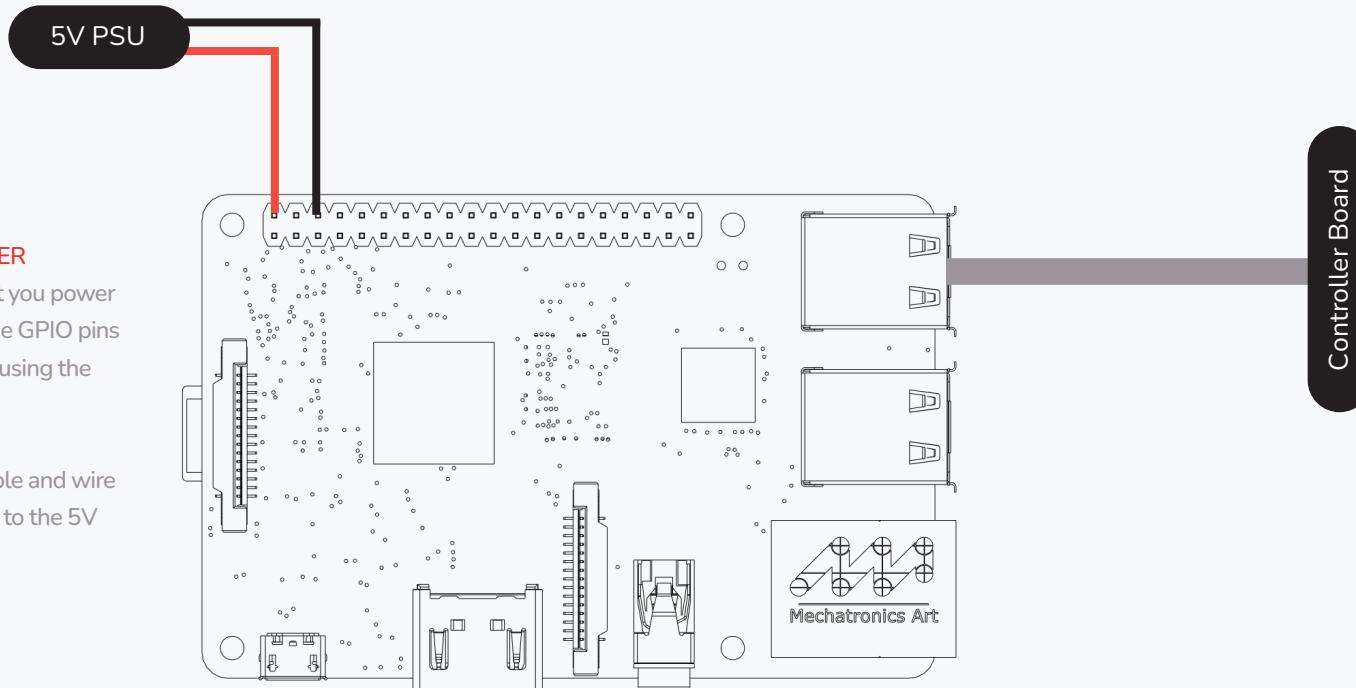
Cables to the controller board should be 2.5mm² (AWG14) or larger.

0.5mm² (AWG20) is sufficient for the connection to the Raspberry Pi.

RASPBERRY PI POWER

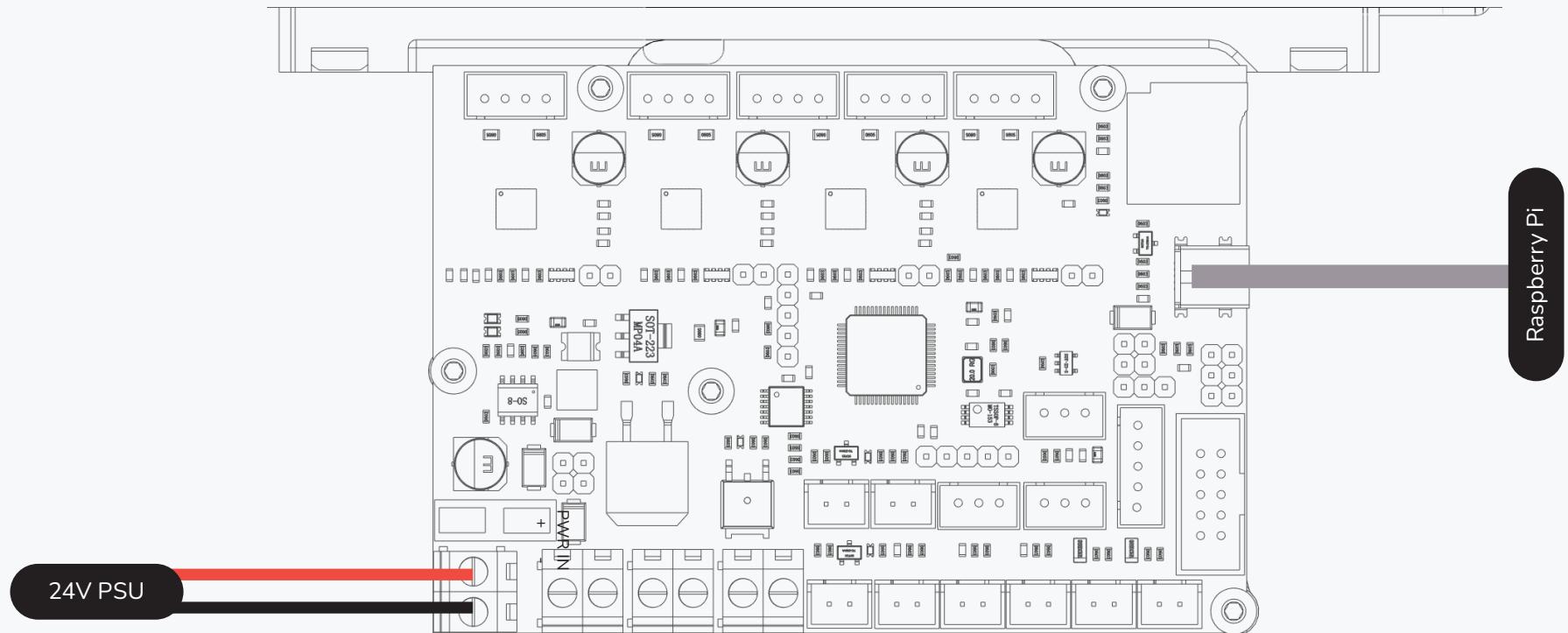
While we suggest that you power the Raspberry Pi via the GPIO pins you may also power it using the "Power-In" USB port.

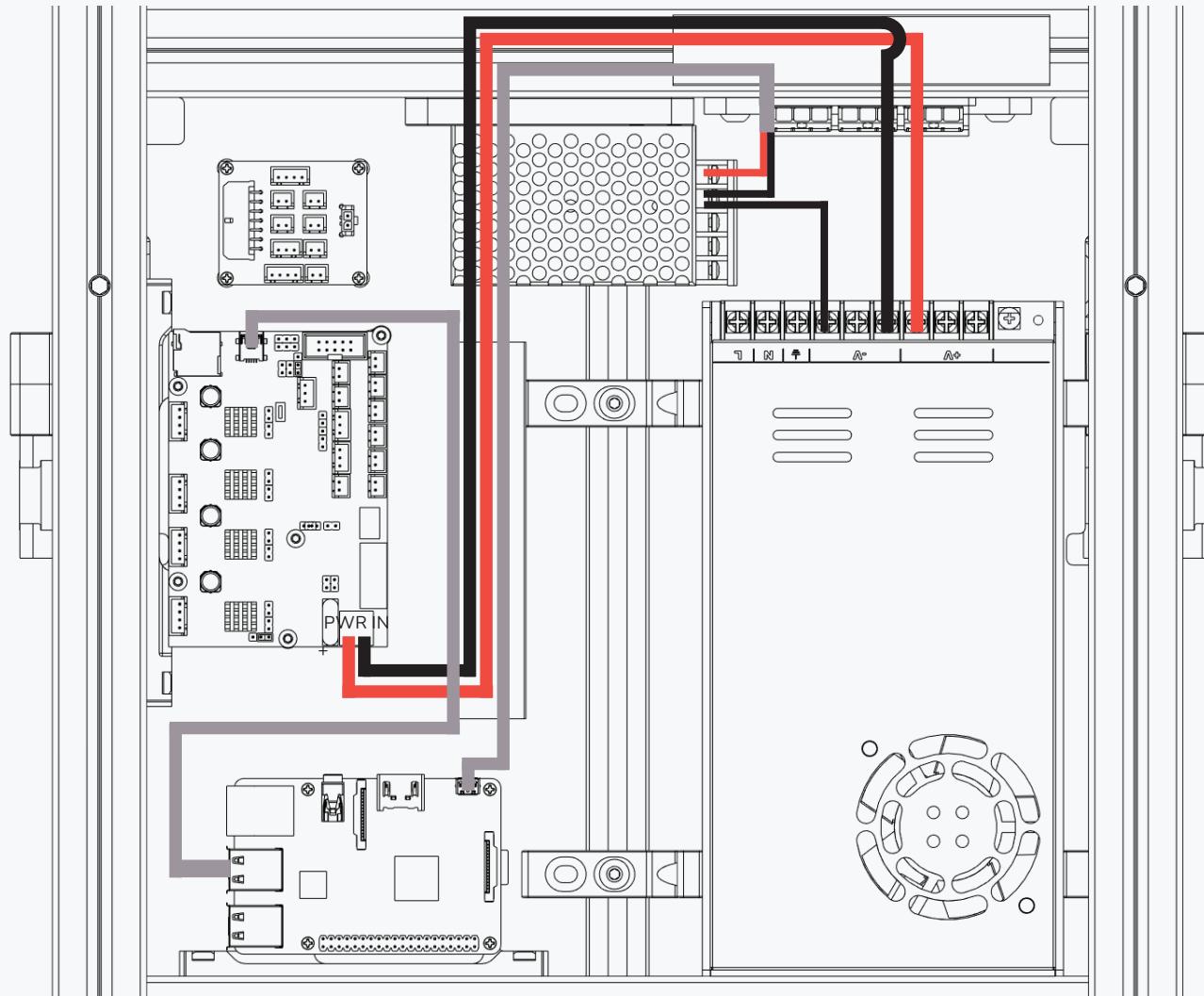
Cut a suitable USB cable and wire the + and ground lines to the 5V PSU instead.

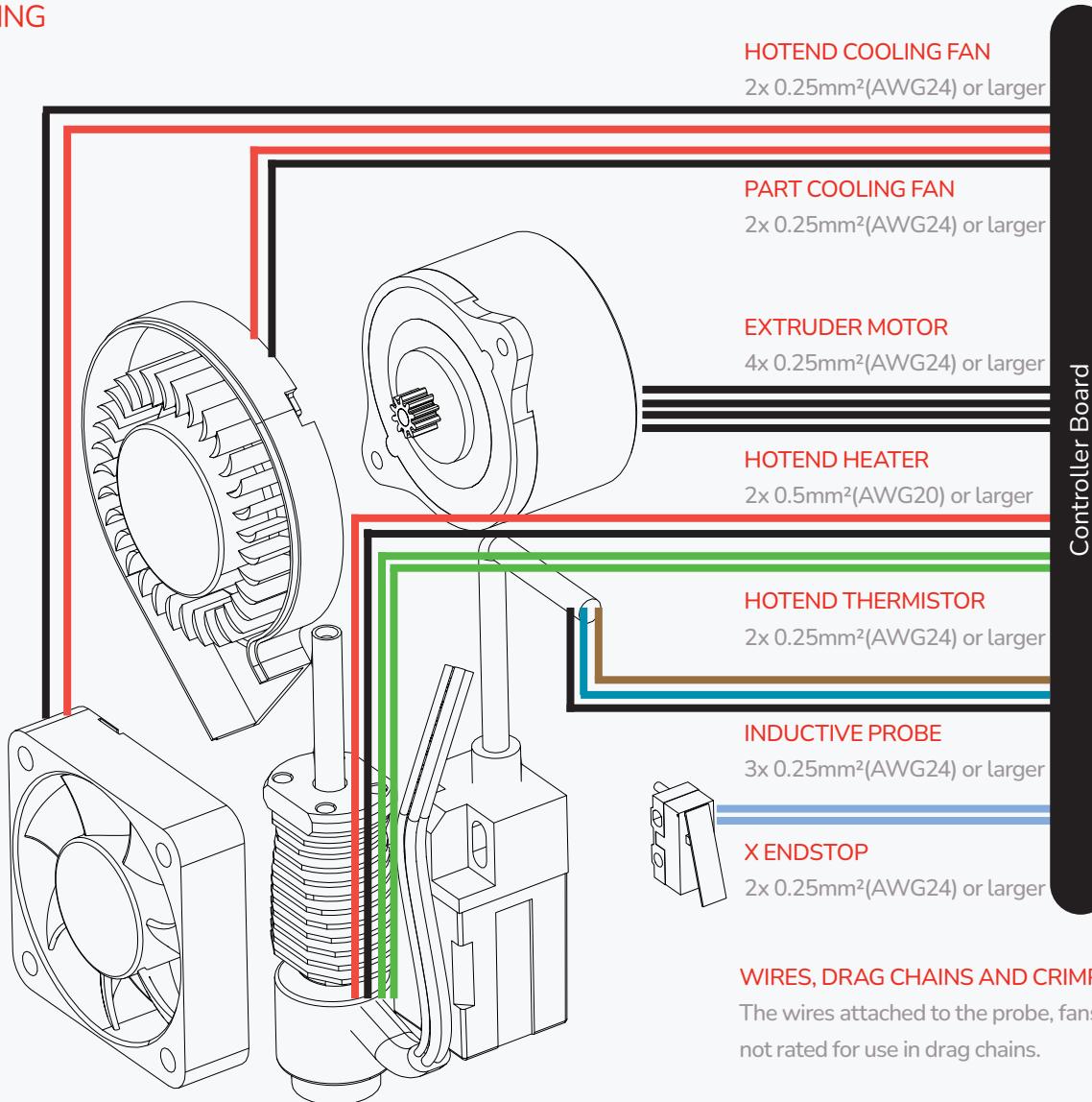


CONTROLLER BOARD

The assembly manual will outline the wiring for a BTT SKR Mini E3 2.0. You can find additional documentation and alternative configurations on docs.vorondesign.com





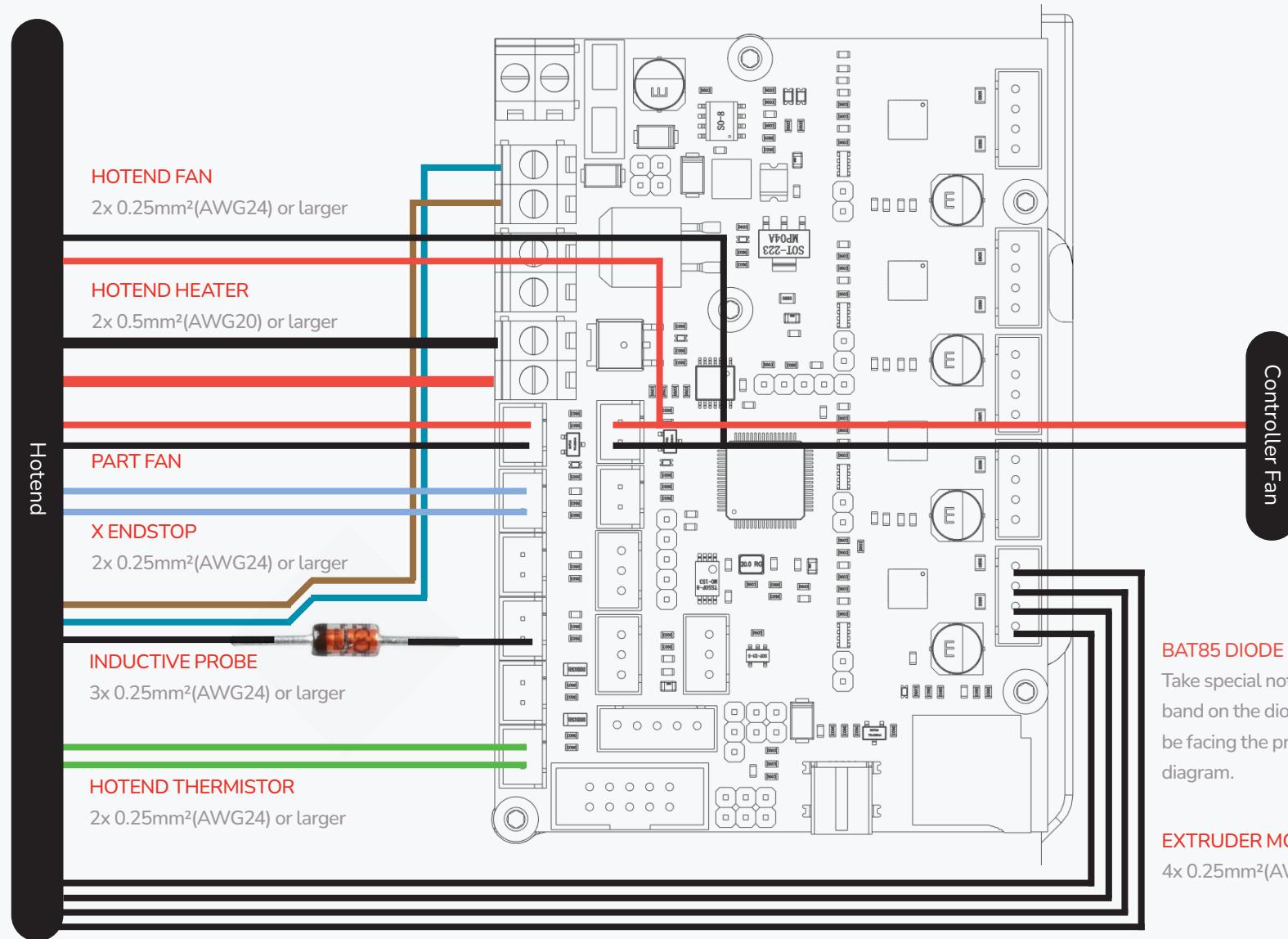


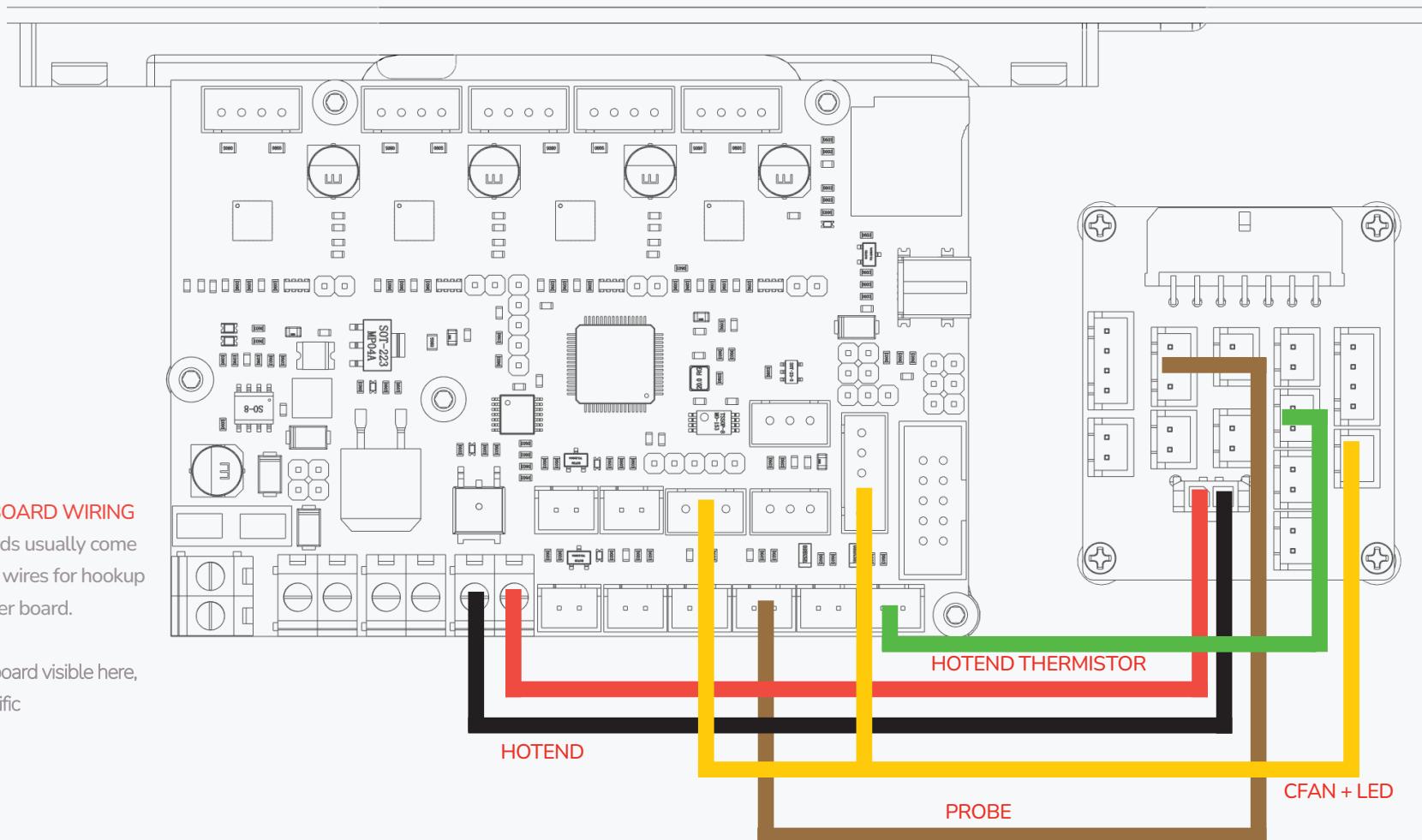
 **LDO MOTORS**

OPTION: TOOLHEAD PCB

If you are planning to use a toolhead PCB consult the Board manufacturer for wiring instructions

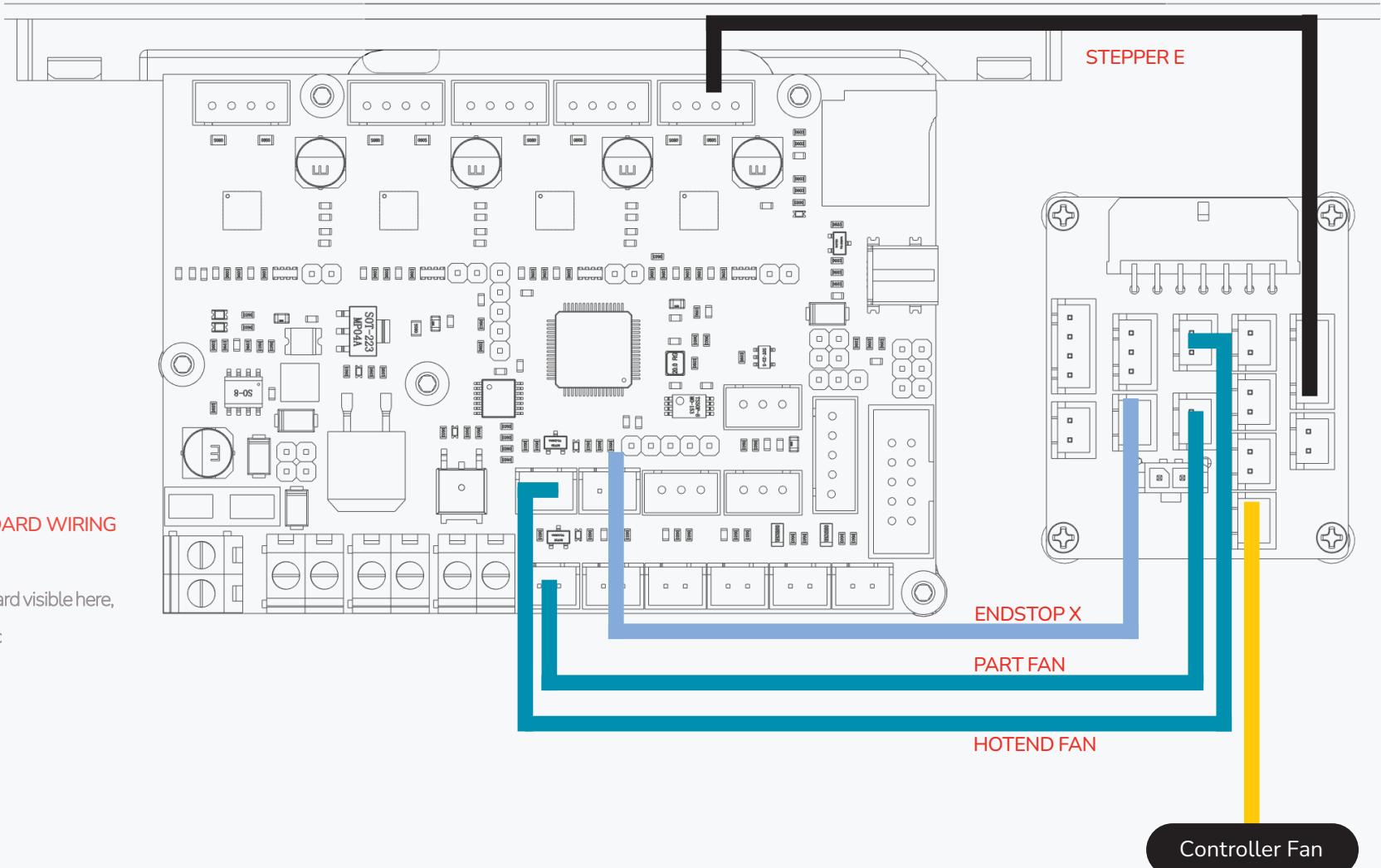
Add crimp connectors at the toolhead and run suitable wire down the drag chains. Refer to the sourcing guide for options.

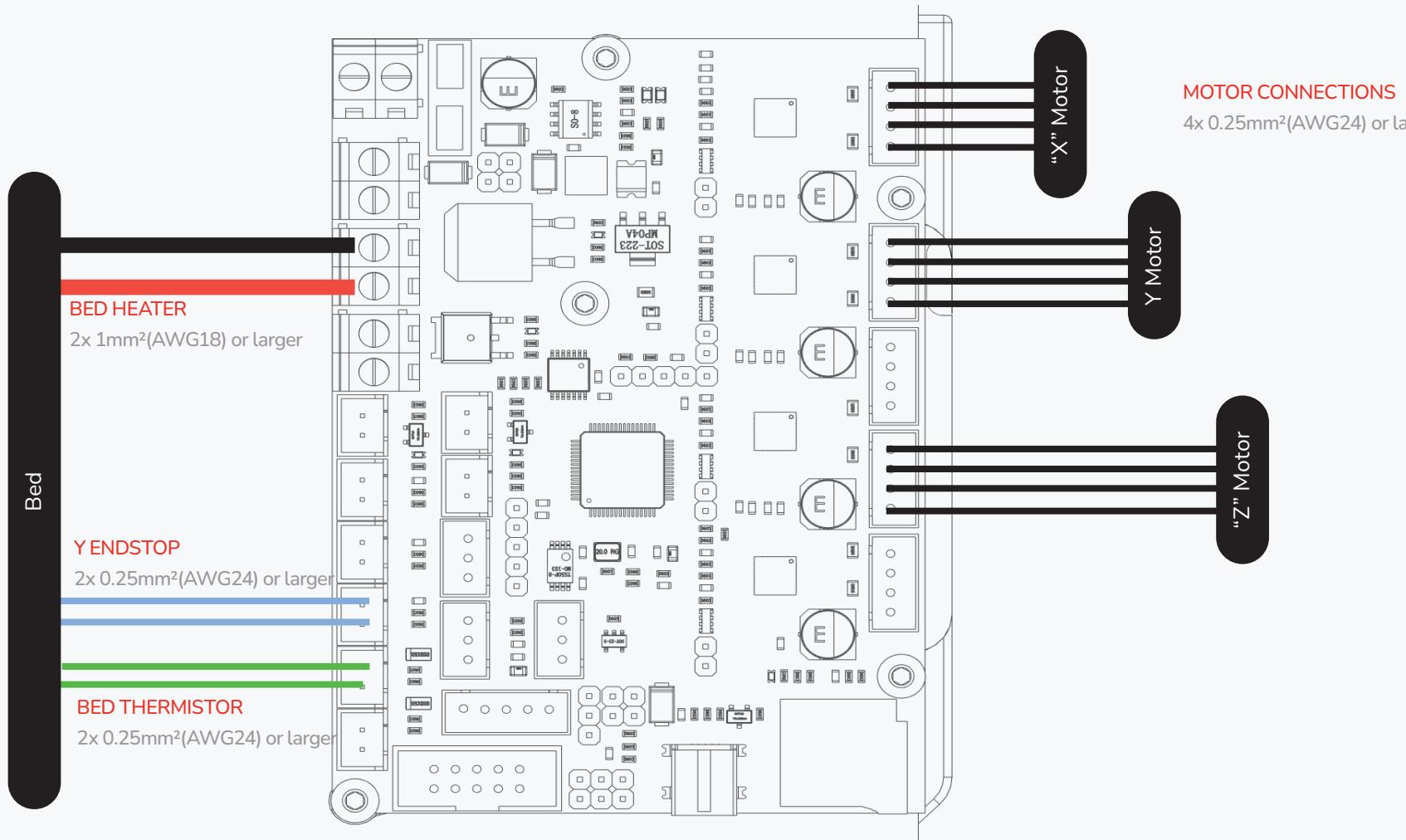


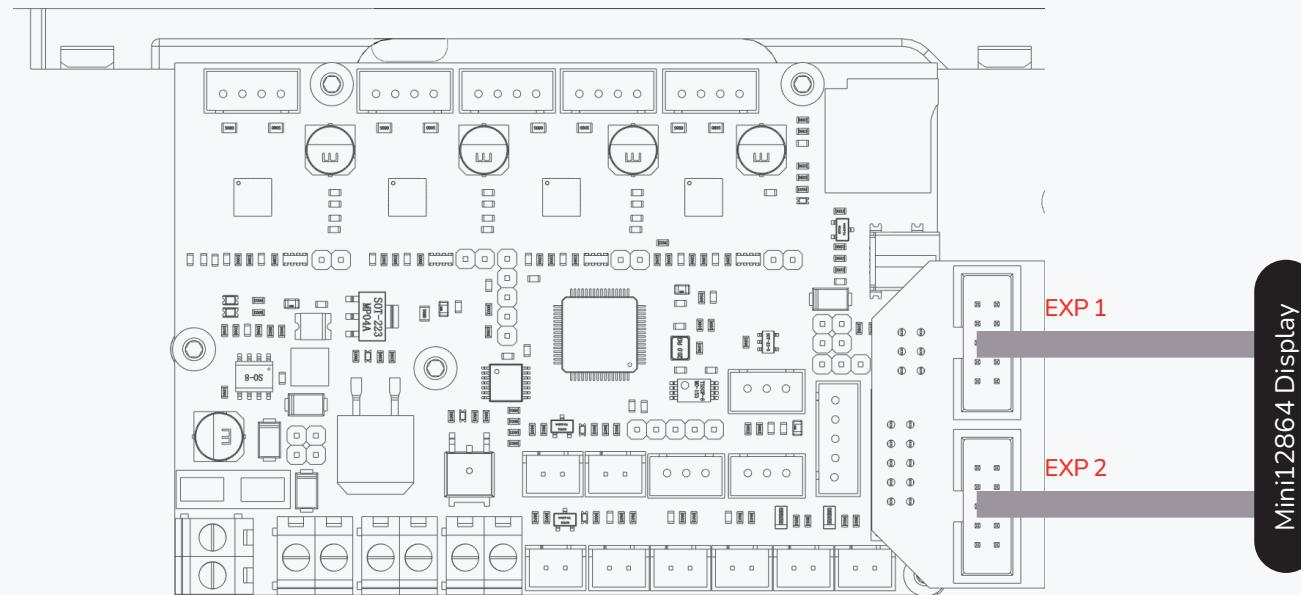
**BREAKOUT BOARD WIRING**

Breakout boards usually come with premade wires for hookup to the controller board.

The breakout board visible here, is LDO kit specific



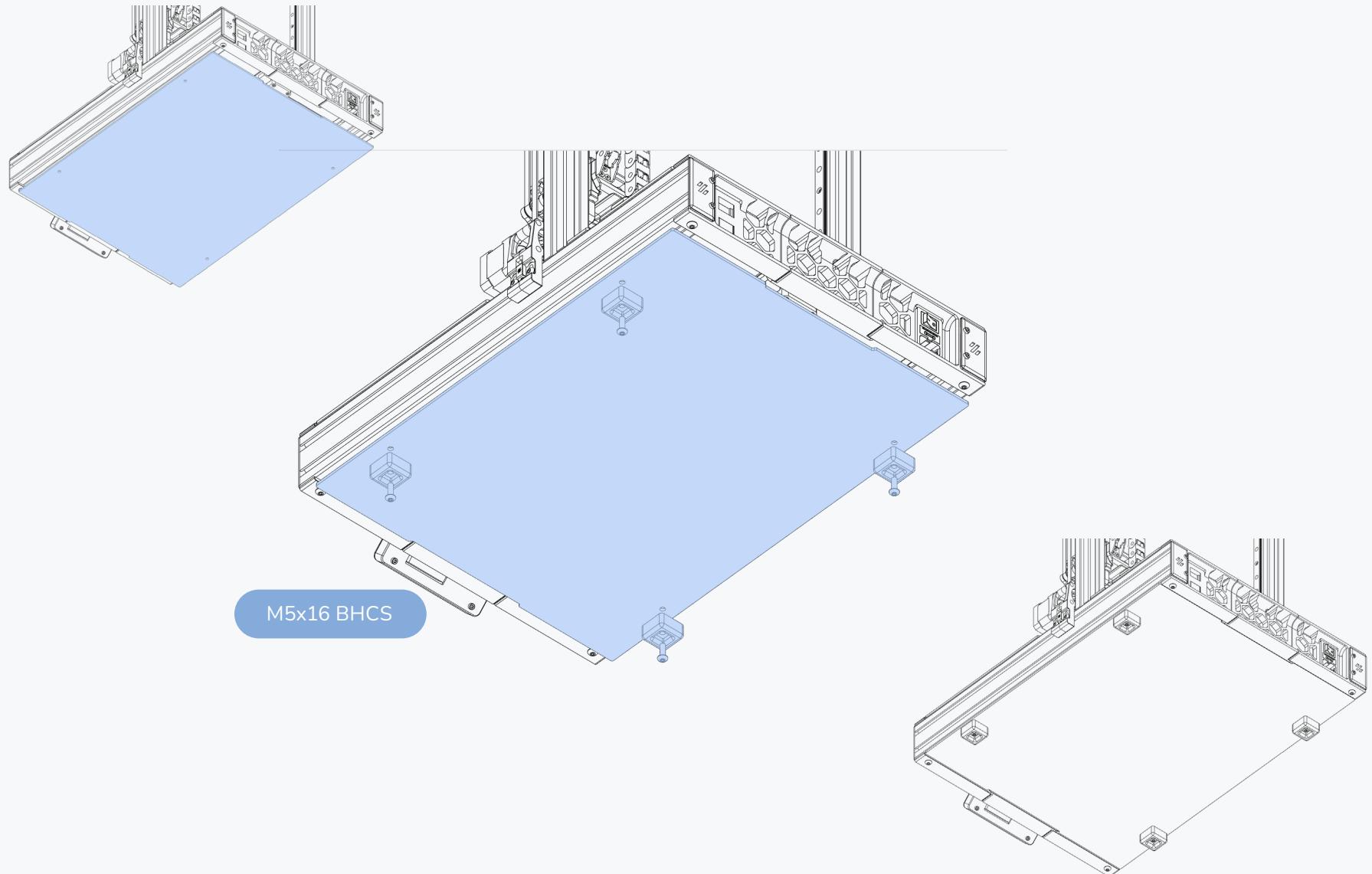




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BOTTOM PANEL

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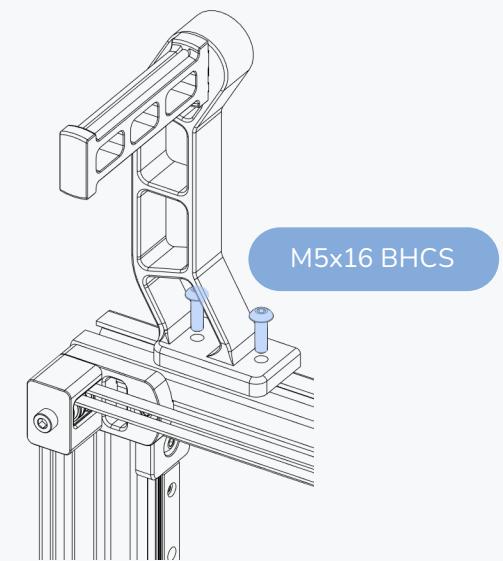
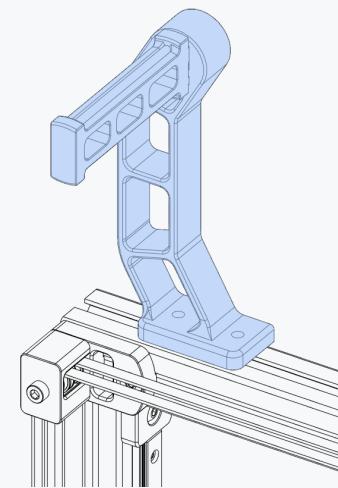
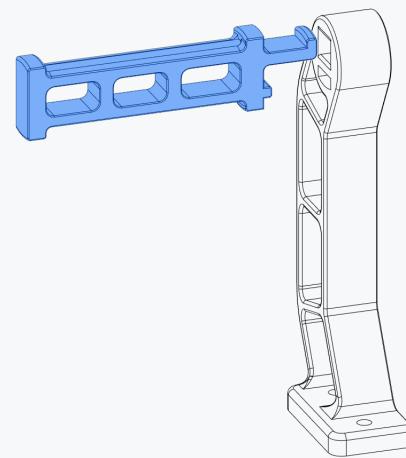
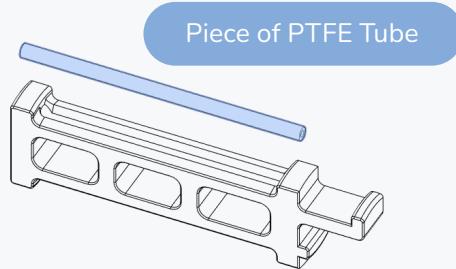
FINAL TOUCHES

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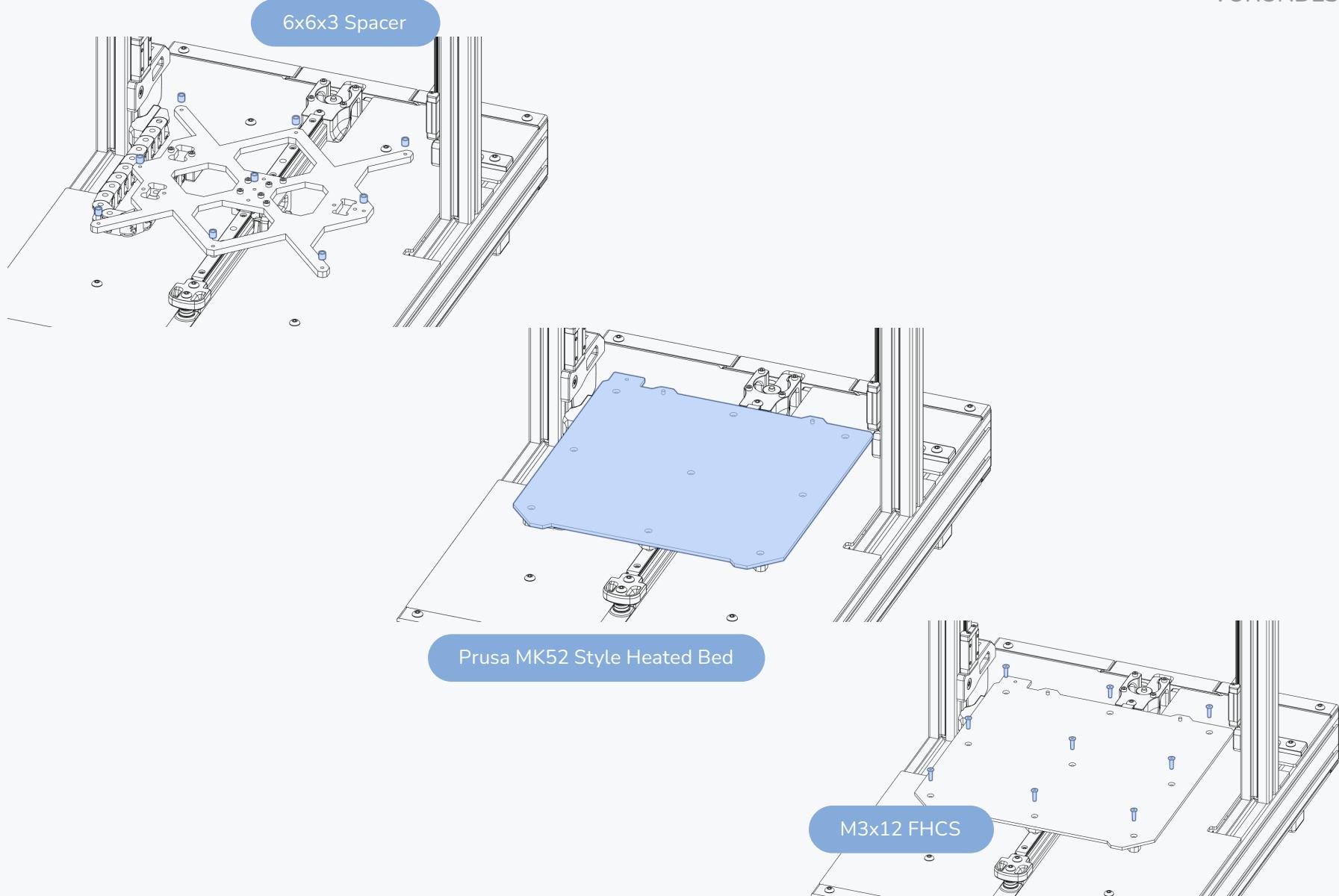
SPOOL HOLDER

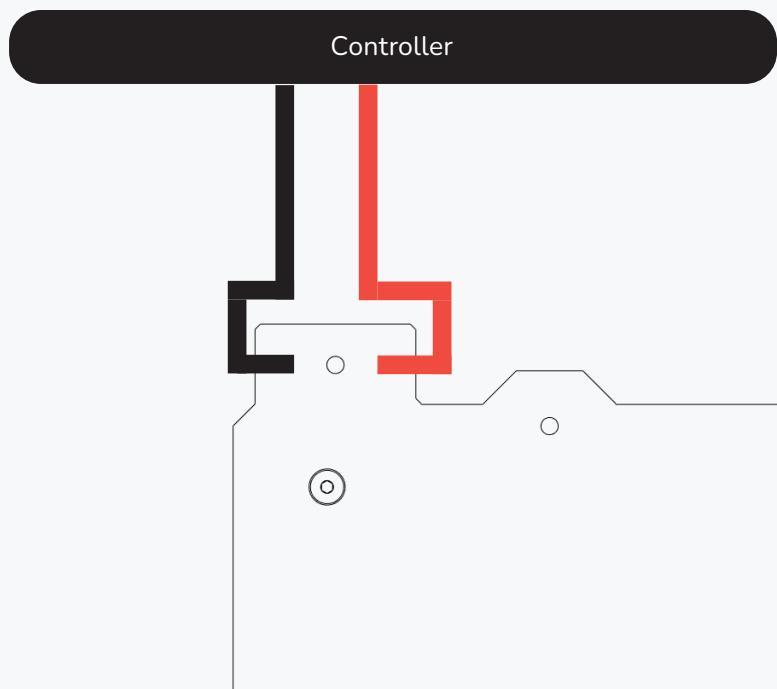
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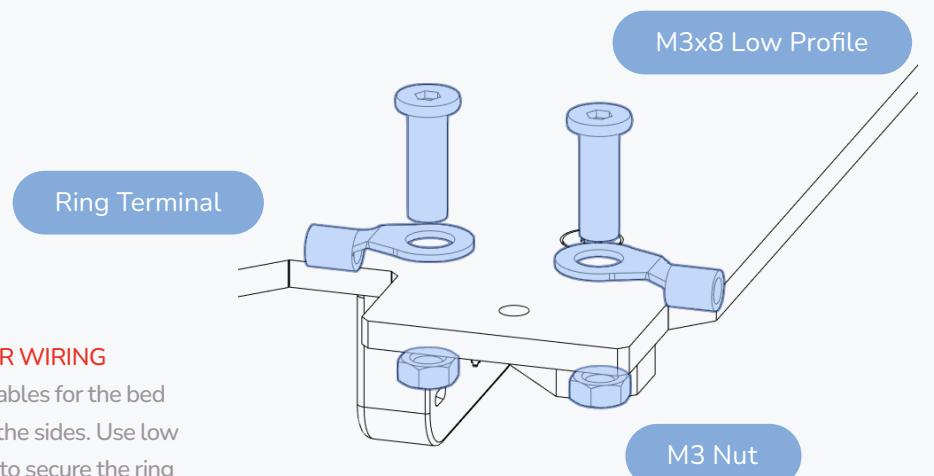
HEATED BED

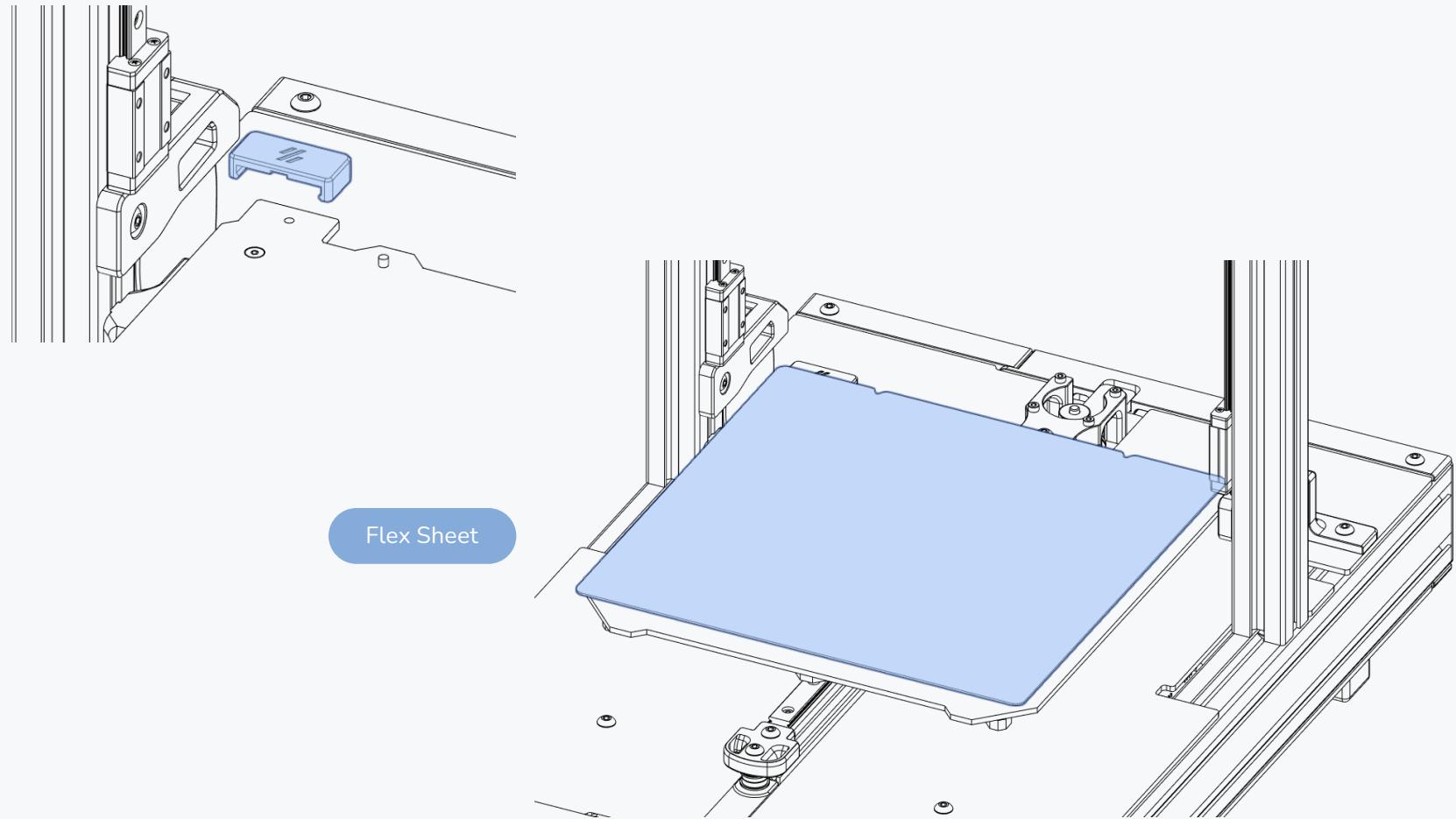
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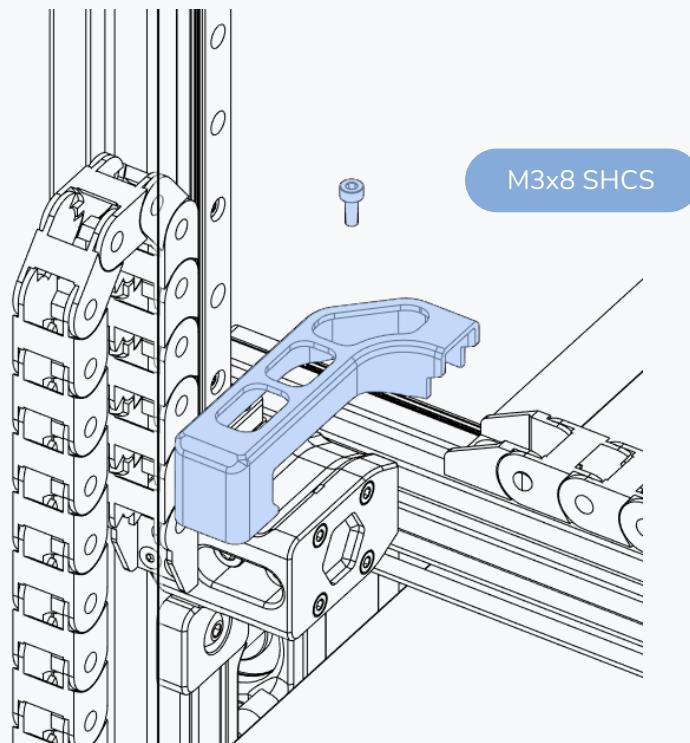


**BED HEATER WIRING**

Attach the cables for the bed heater from the sides. Use low profile bolts to secure the ring terminals to the heater.







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

This manual is designed to be a simple reference manual for the build process.

For details on the setup of the electronics and other initial steps of your new printer please visit our documentation available on [github](#) and [docs.vorondesign.com](#).



<https://docs.vorondesign.com>



<https://github.com/VoronDesign/Voron-Switchwire>

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.



<https://discord.gg/voron>



Website
<https://vorondesign.com>

Github
<https://github.com/vorondesign>

Discord
<https://discord.gg/voron>

WWW.VORONDESIGN.COM

