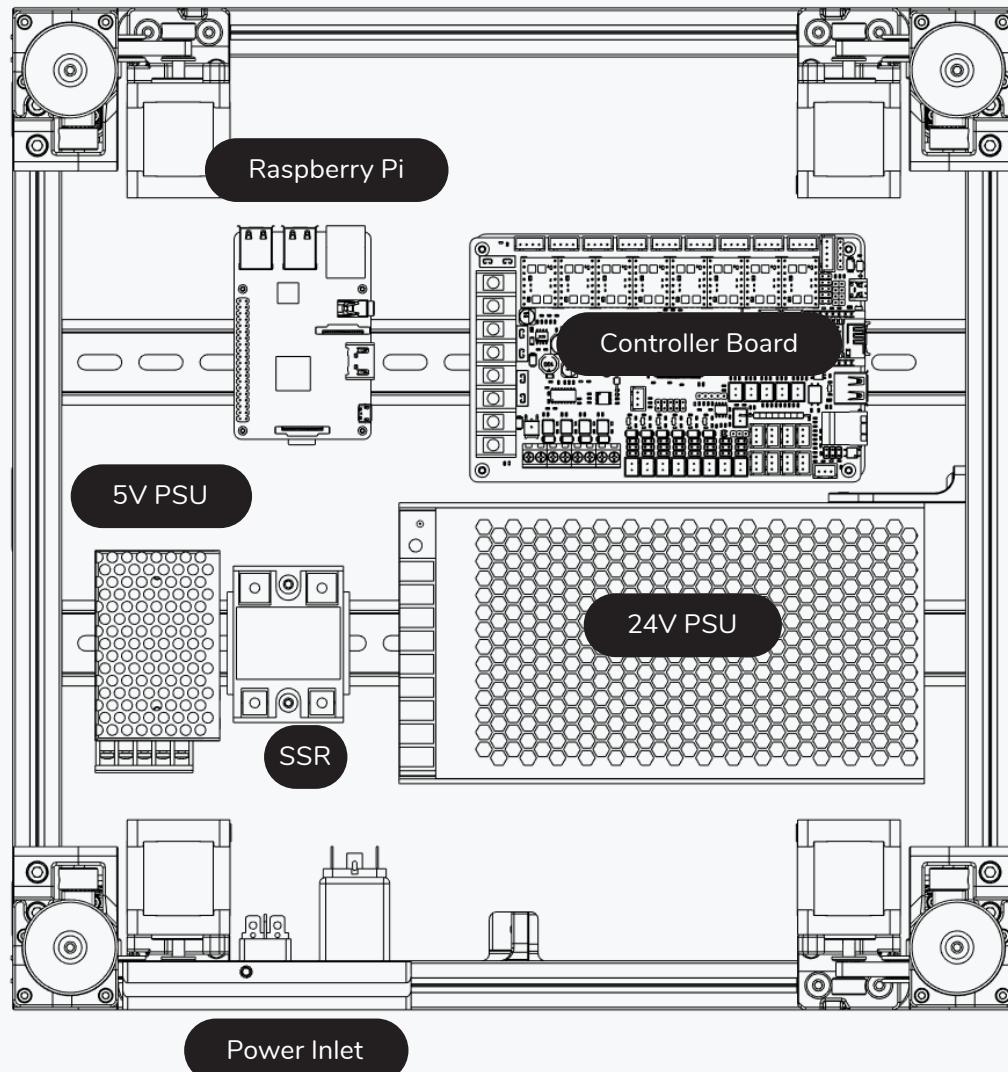
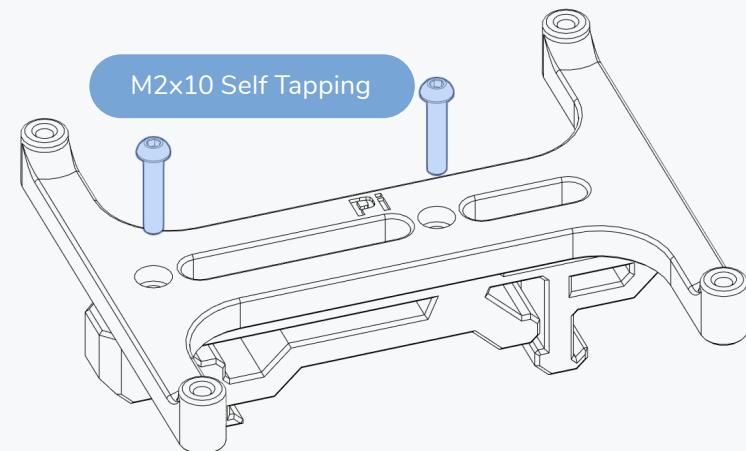
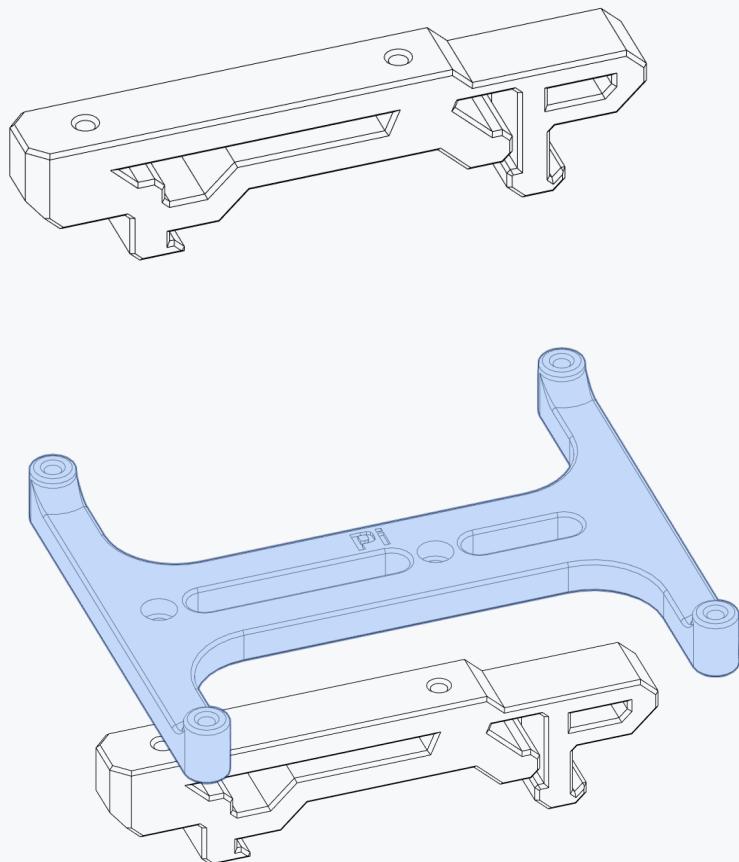
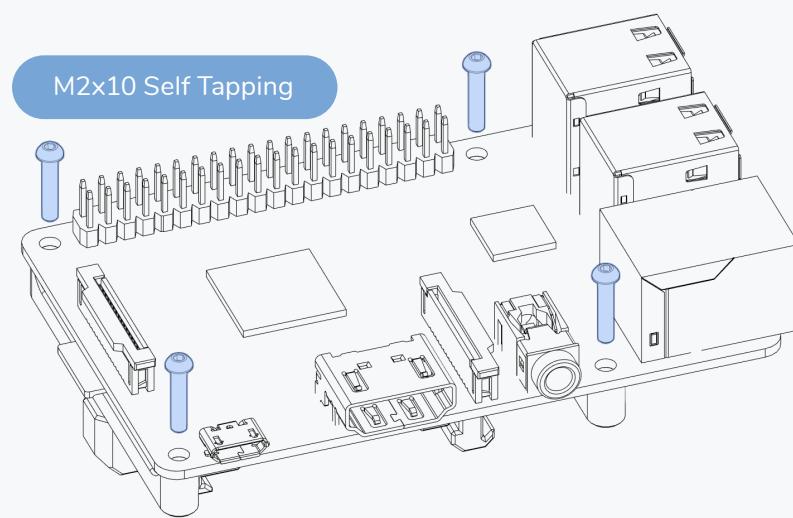
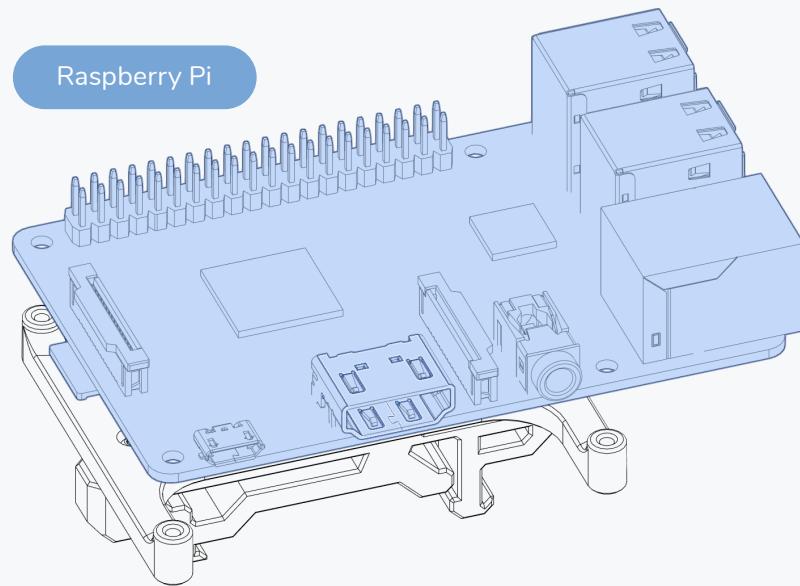


OVERVIEW

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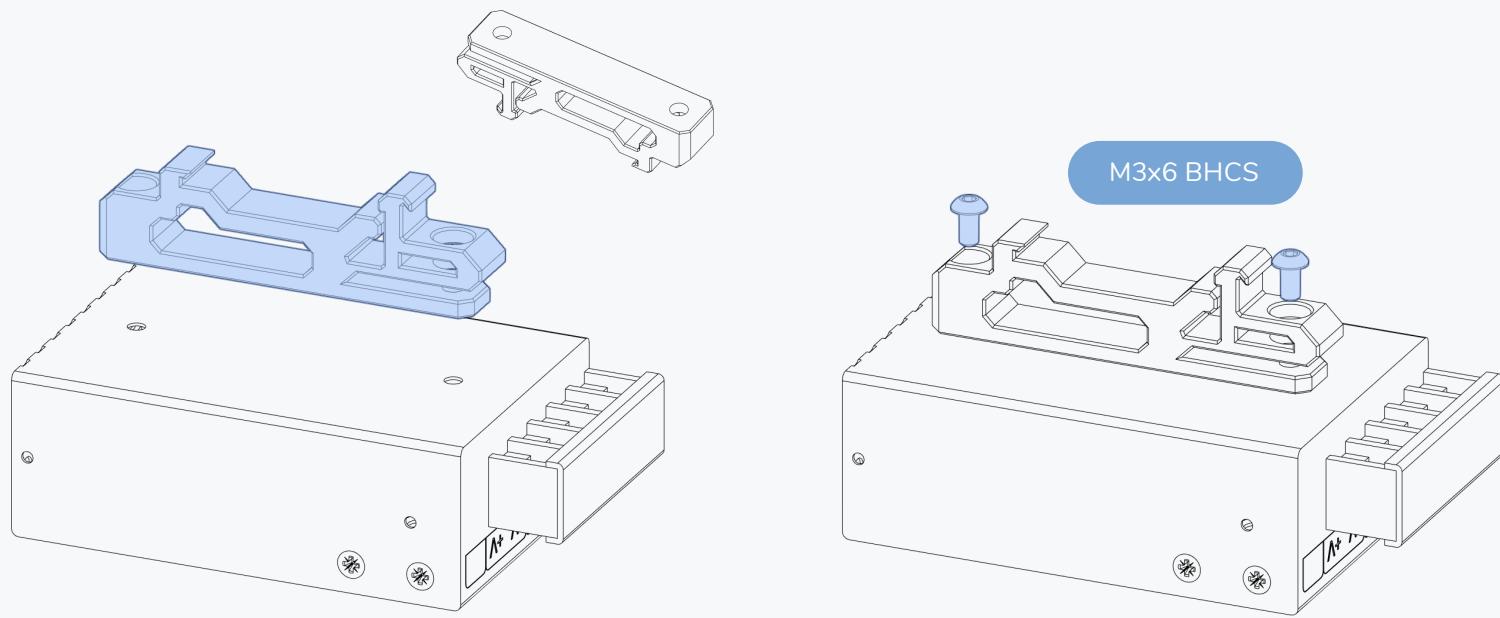






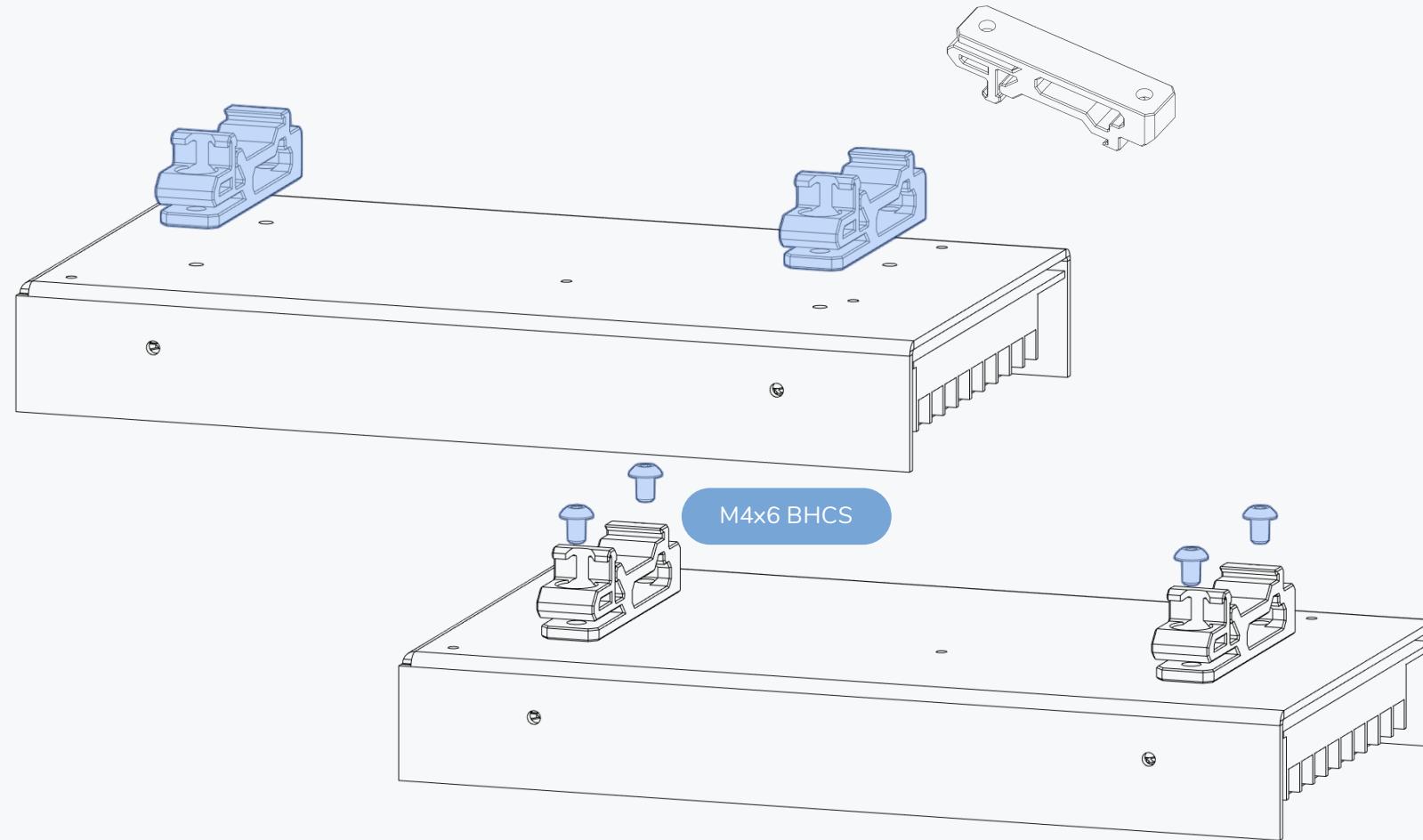
5V PSU

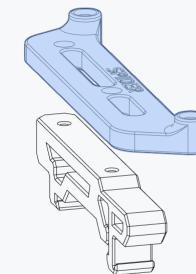
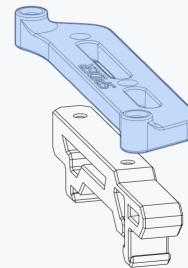
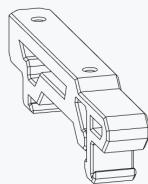
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24V PSU

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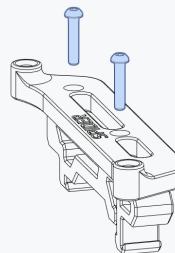




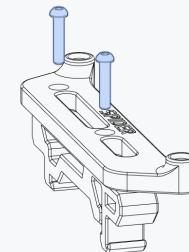
AVAILABLE MOUNTS

We also provide mounts for other controller boards.

They are assembled in a similar manner.

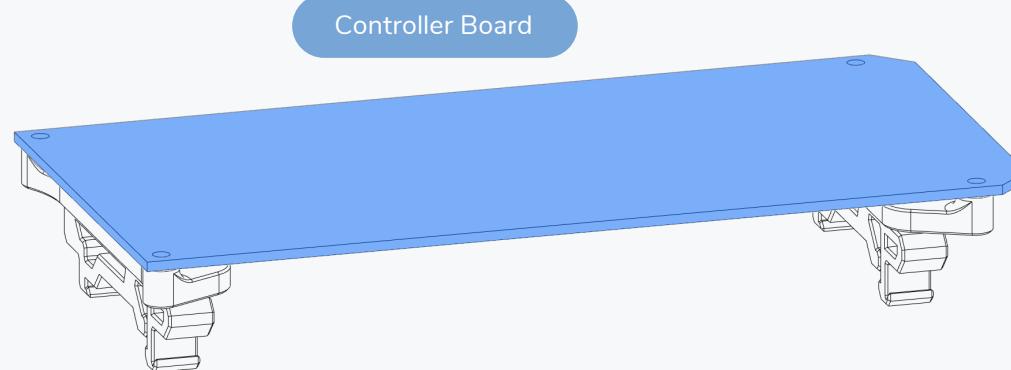


M2x10 Self Tapping



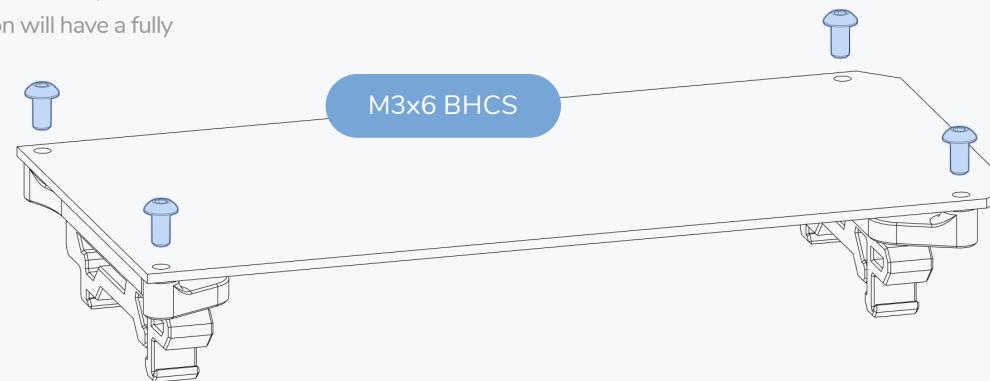
CONTROLLER BOARD

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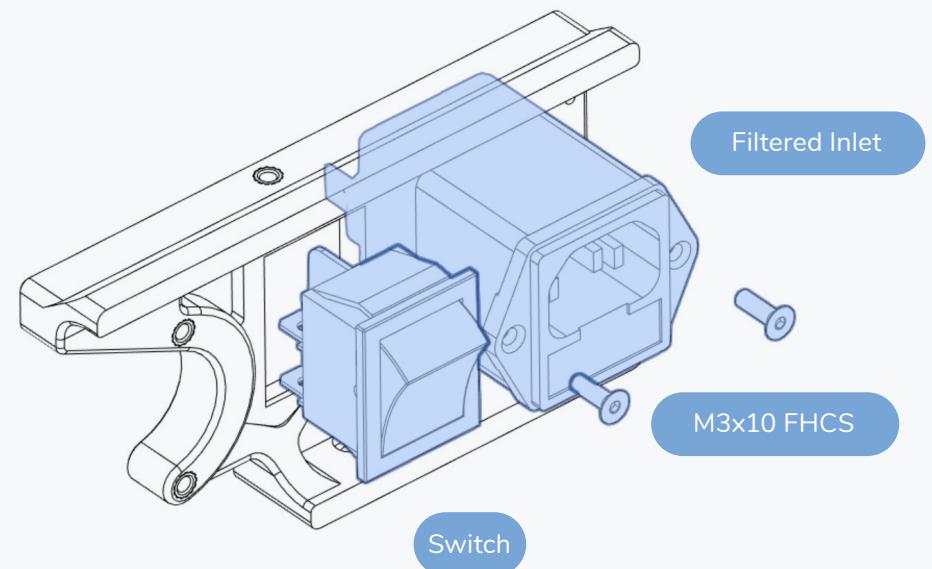
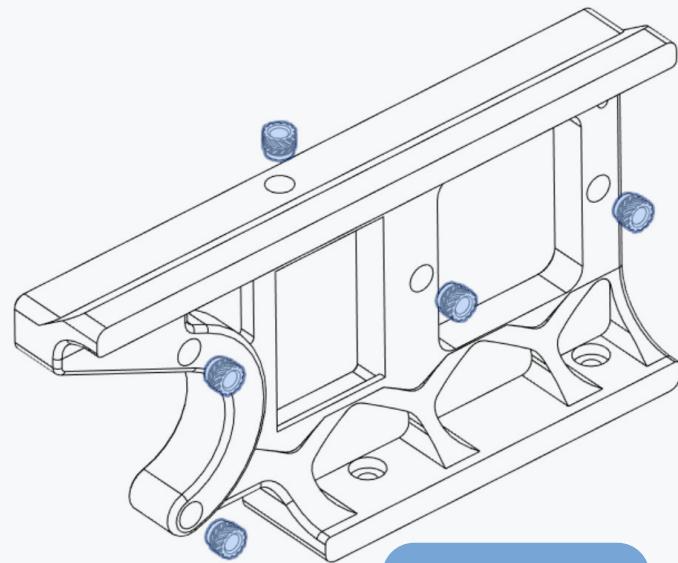
WHY DOES IT LOOK THAT WAY?

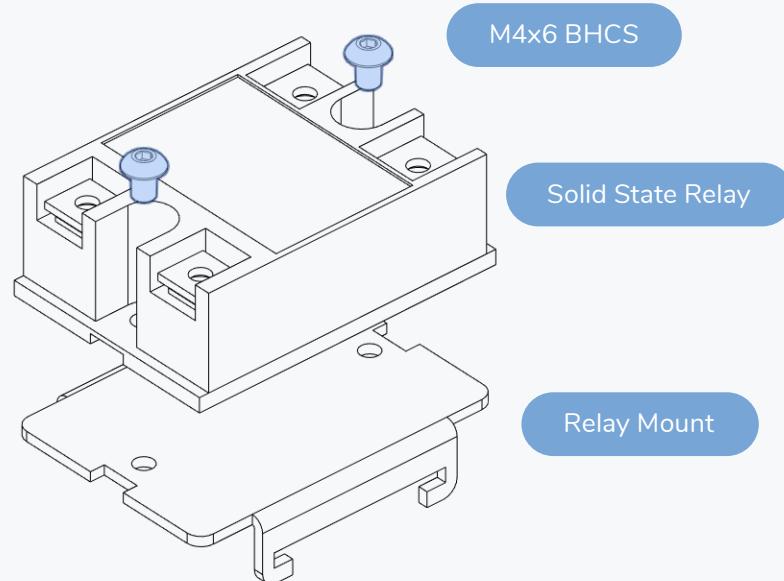
We used a dummy to keep the file size of the printers CAD manageable. The wiring section will have a fully featured image.



POWER INLET

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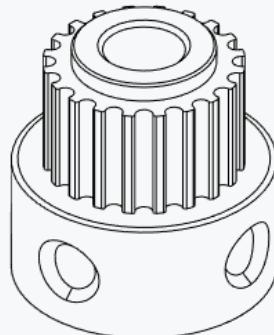


WHERE CAN I FIND THE RELAY MOUNT?

The SSR mount is an off the shelf part. Look for a metal bracket in your pile of parts.

There is no printed mount.

GT2 20 Tooth Pulley



REMOVE FLANGE & SET SCREWS

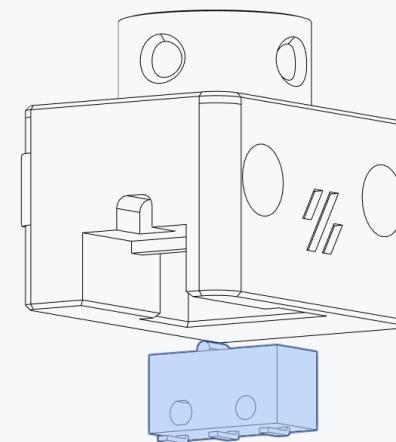
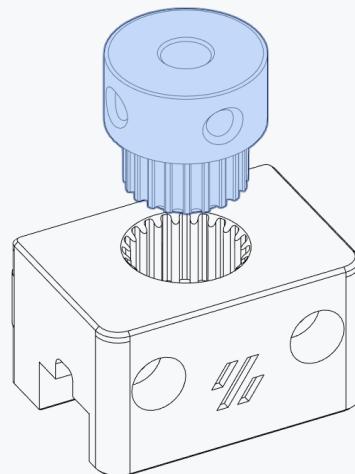
Use a bottle opener or some pliers to remove the top flange.



<https://voron.link/ict0j6x>

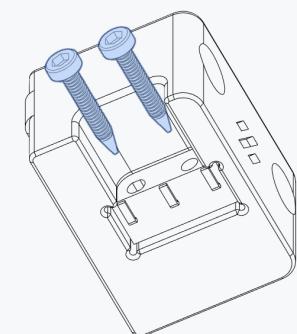
PRESS FIT

Apply the required force to fully seat the pulley in the printed part.



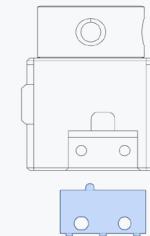
Microswitch

M2x10 Self Tapping



SWITCH W/OUT LEVER

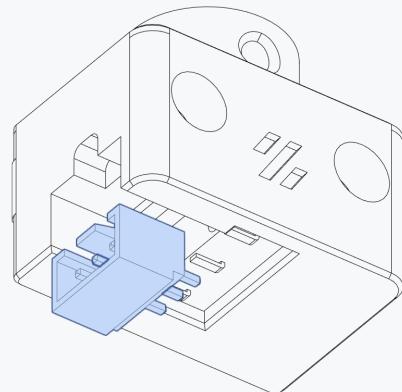
This part requires a switch without lever to be installed in the shown orientation.



You can remove the lever from microswitches by gently pressing on the lever's hinge point.

Z ENDSTOP

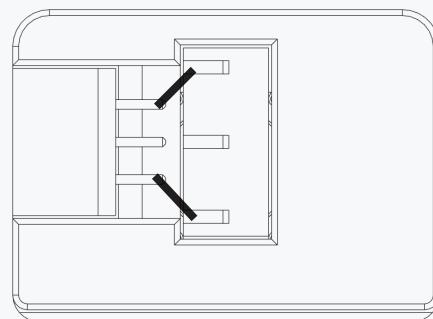
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5mm Shaft

PREVENTING MISHAPS

You can add a notch to the Z endstop point and capture it with a set screw to prevent it from falling out.



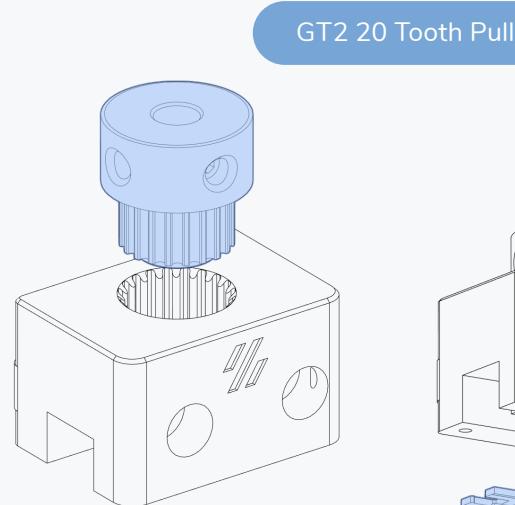
SOLDER CONNECTOR

Solder a connection from the outer two terminals of the microswitch to the connector.

ALTERNATE Z ENDSTOP

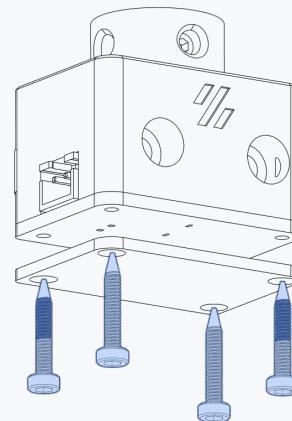
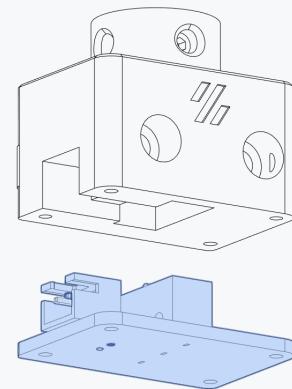
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OPTION: Z ENDSTOP BOARD



PRESS FIT

Apply the required force to fully seat the pulley in the printed part.

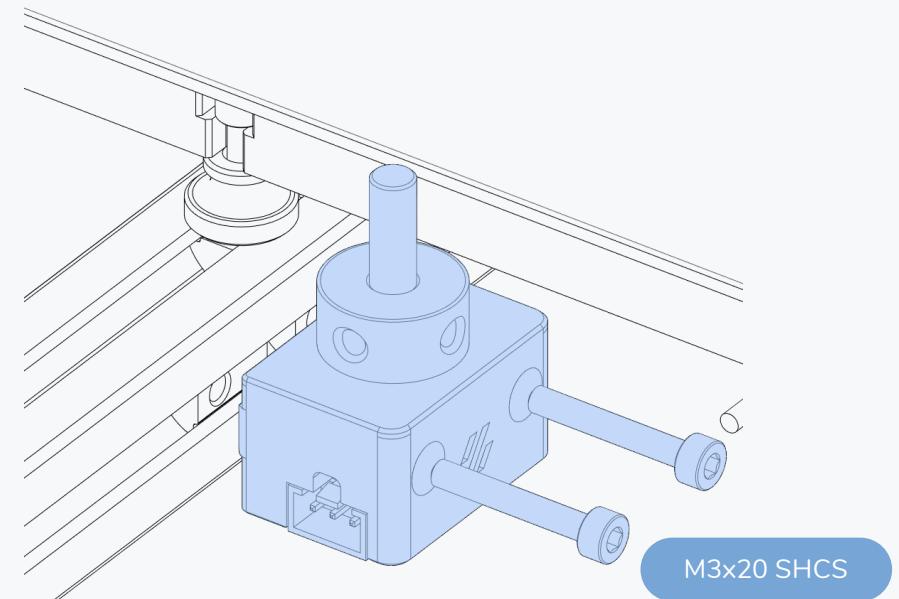
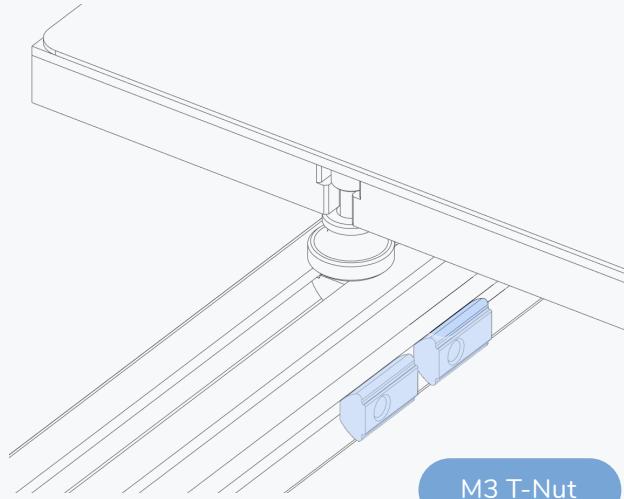
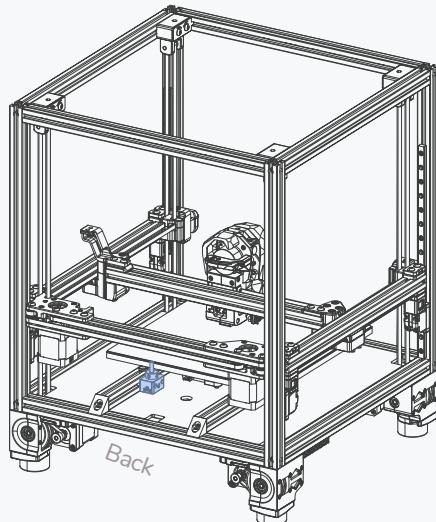


ADDITIONAL INFORMATION

Visit voron.link/3bwvnqy for design files and BOM.

Z ENDSTOP

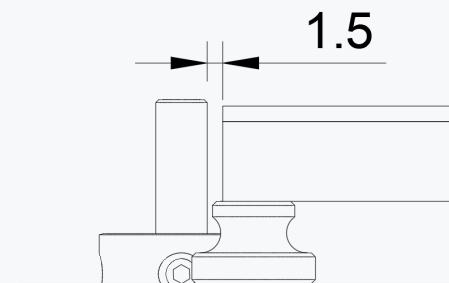
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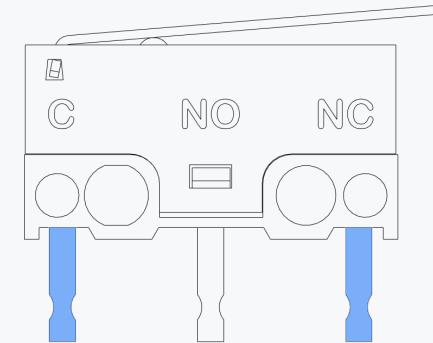
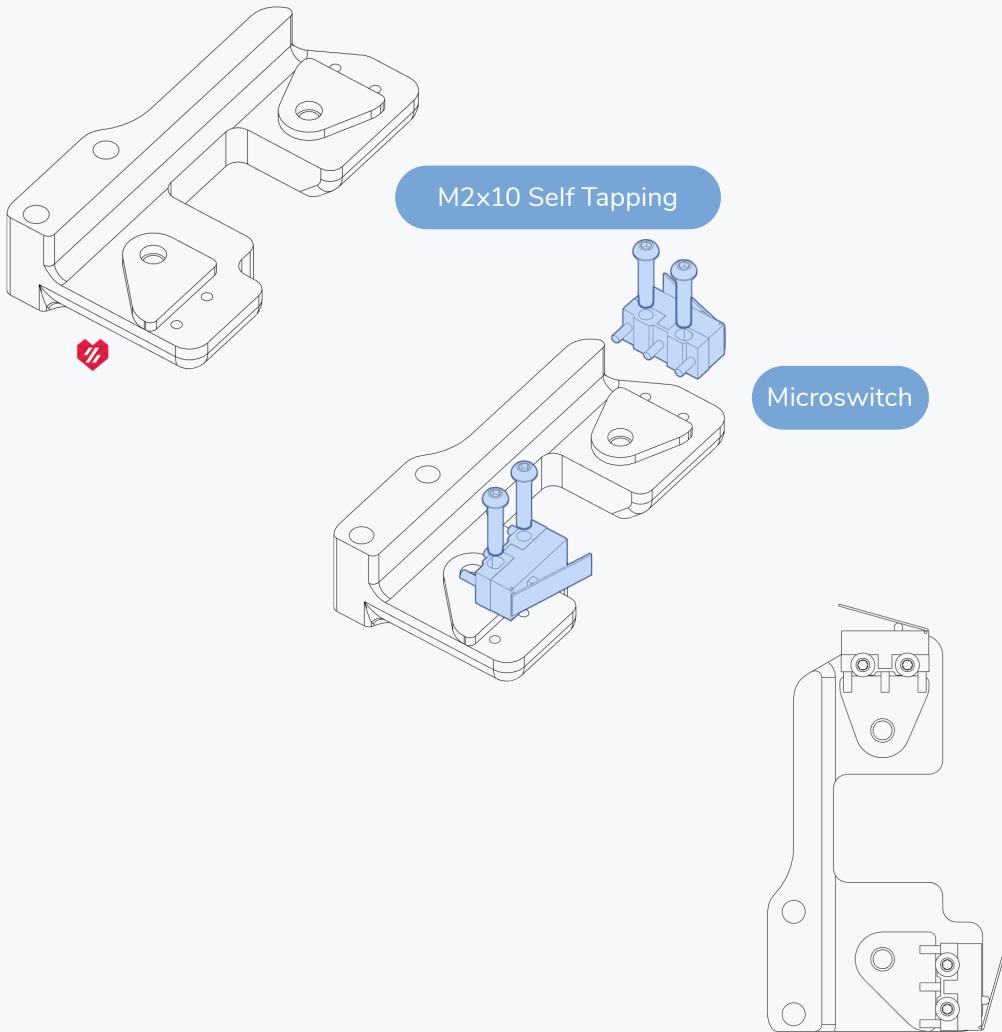


ADJUST Z ENDSTOP POSITION

The shaft of the Z Endstop must not touch the print bed.

Adjust the position if required.





END-STOP SWITCHES FOR X AND Y

End-stops are wired in a “Normally Closed” configuration.

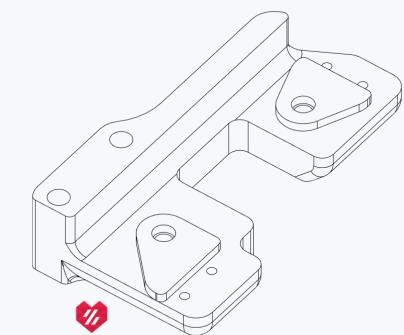
On microswitches those are the 2 outer terminals indicated by C and NC.

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

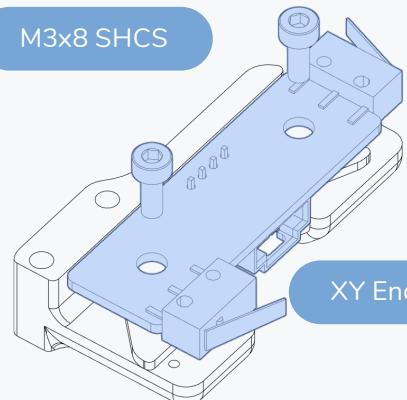
ALTERNATE X/Y ENDSTOPS

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OPTION: XY ENDSTOP BOARD

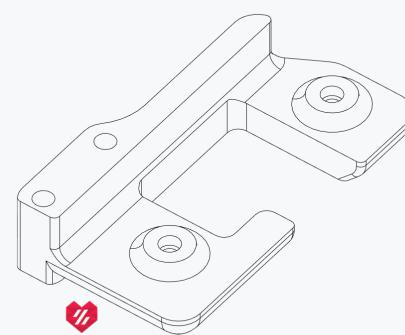


M3x8 SHCS

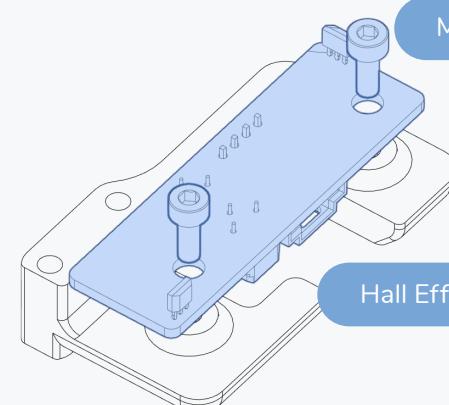


XY Endstop Board

OPTION: HALL EFFECT ENDSTOP BOARD



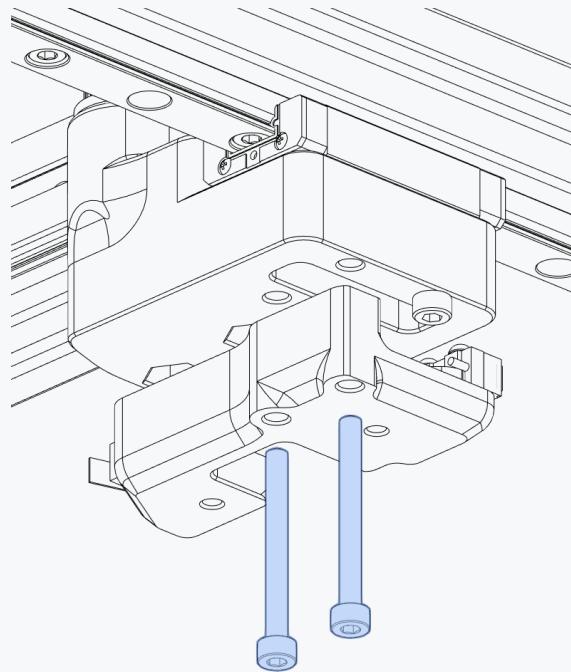
M3x8 SHCS



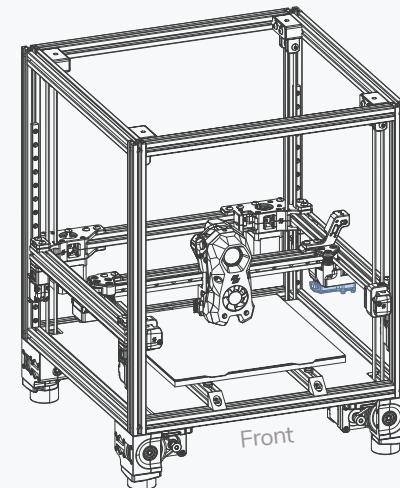
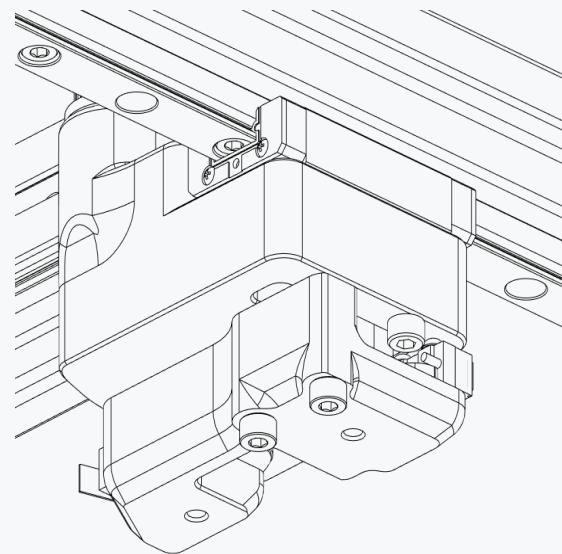
Hall Effect Endstop Board

X/Y ENDSTOP

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M3x30 SHCS

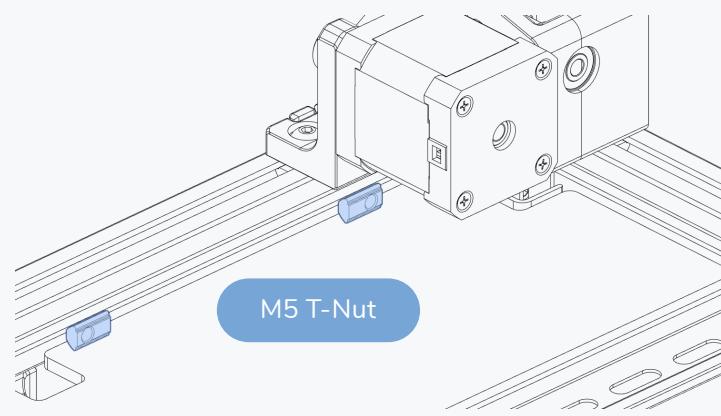


ALTERNATE MAINS DISTRIBUTION - WAGO

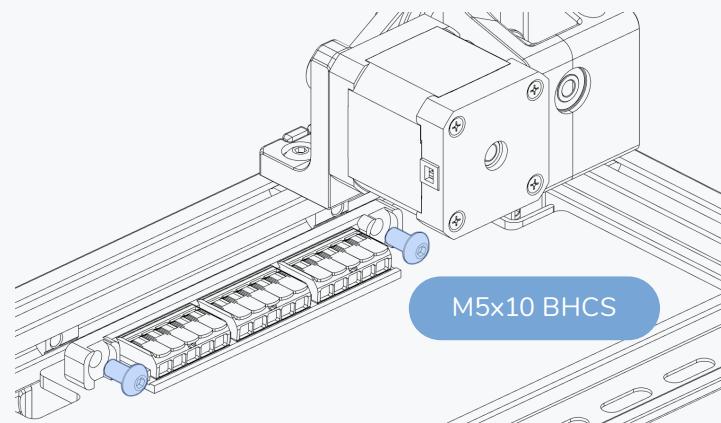
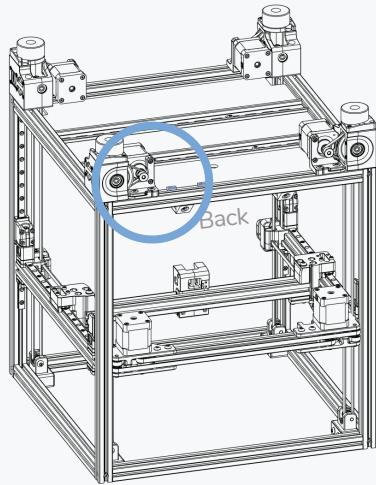
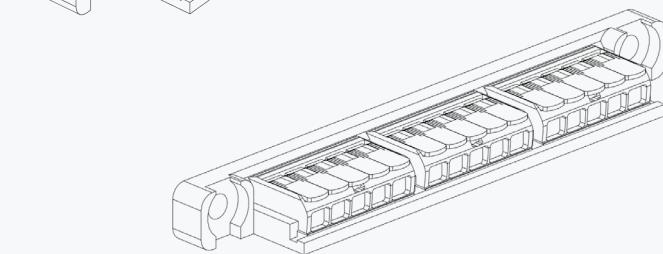
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WAGO 221 415 Clamps



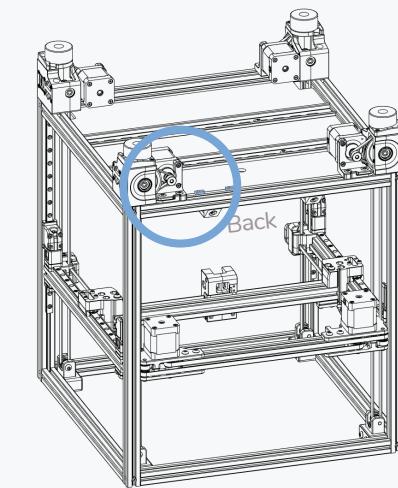
M5 T-Nut



M5x10 BHCS

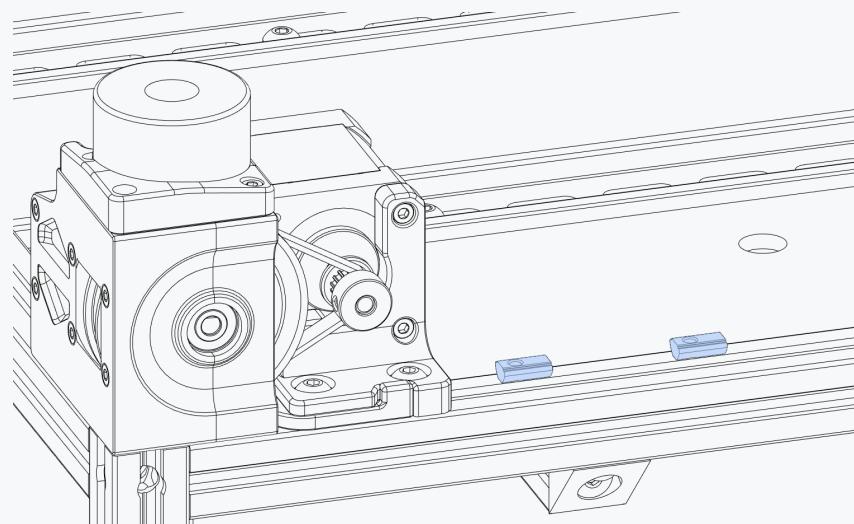
POWER INLET

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UPSIDE DOWN ASSEMBLY

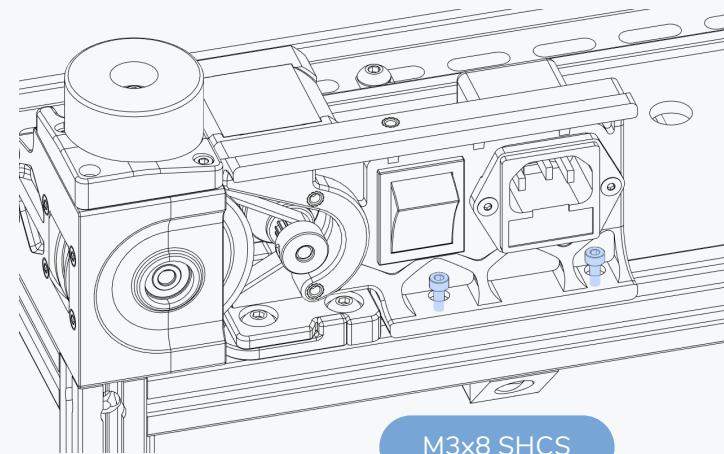
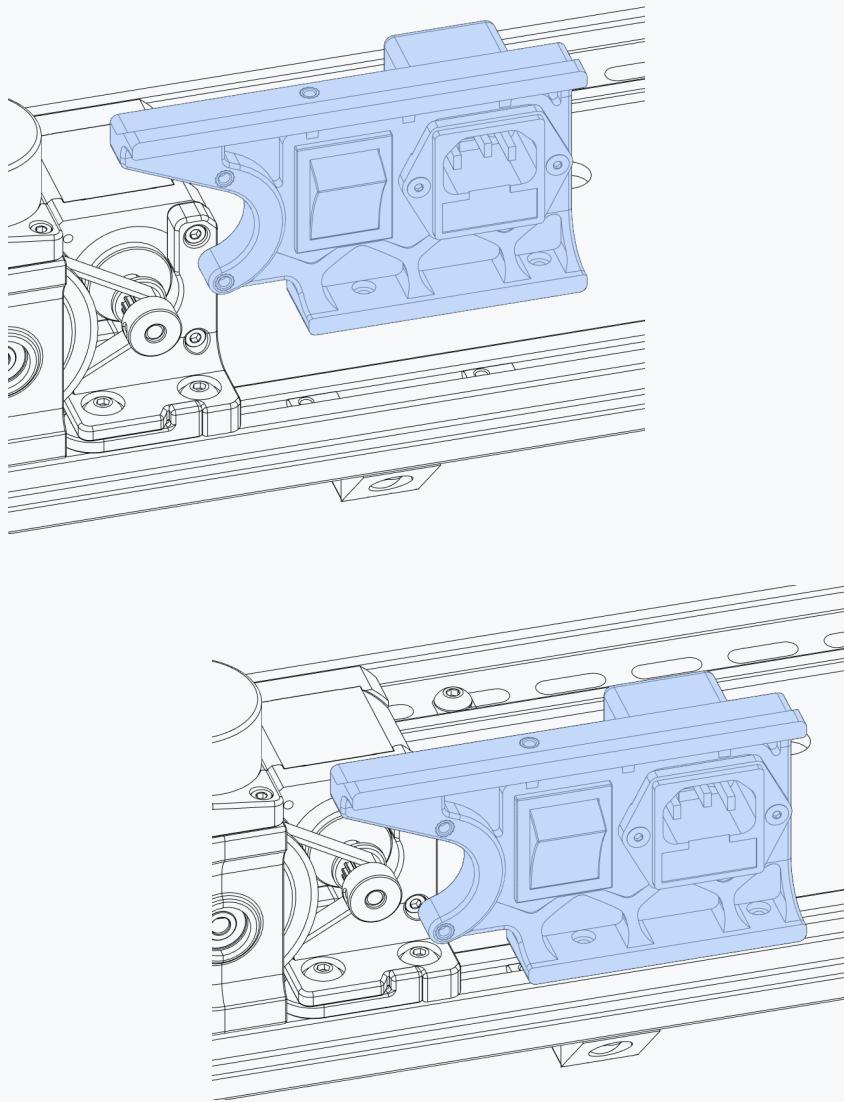
For ease of assembly we recommend to flip the printer on its head for the next steps. Hope you don't regret building a 350.

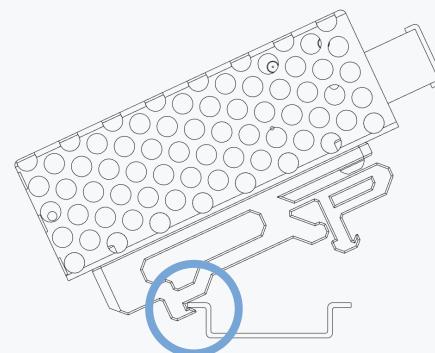
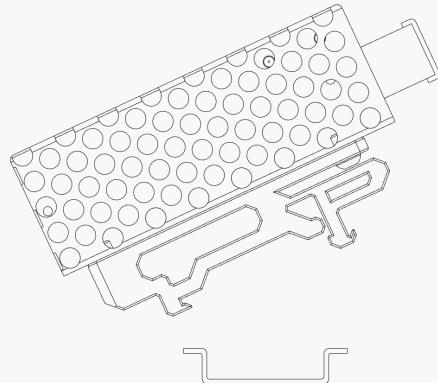


M3 T-Nut

POWER INLET

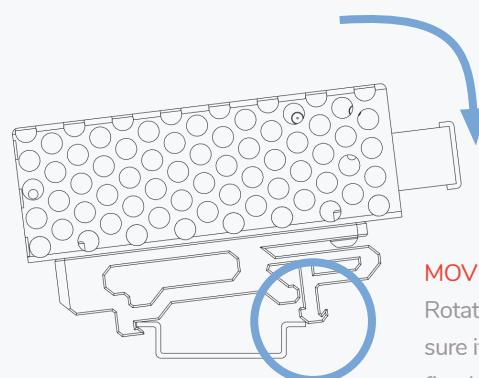
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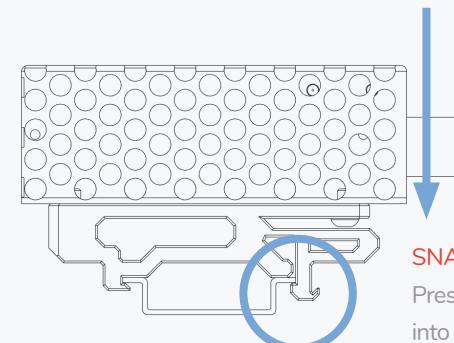
HOOK FIXED SIDE

Hook the fixed side of the printed mount on side of DIN rail.



MOVE INTO POSITION

Rotate the part into place, make sure it does not unhook from the fixed side.

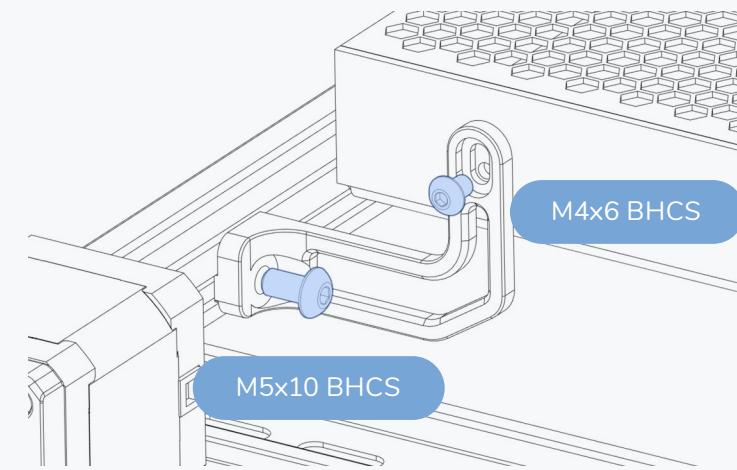
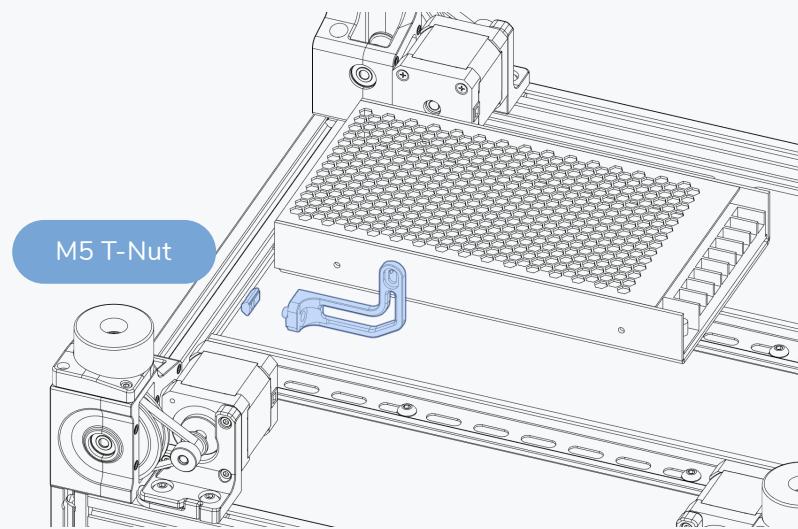
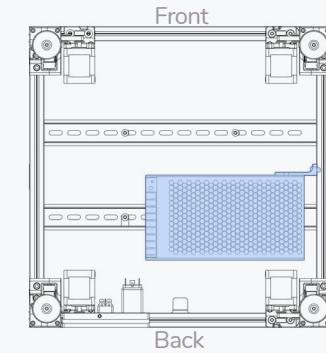
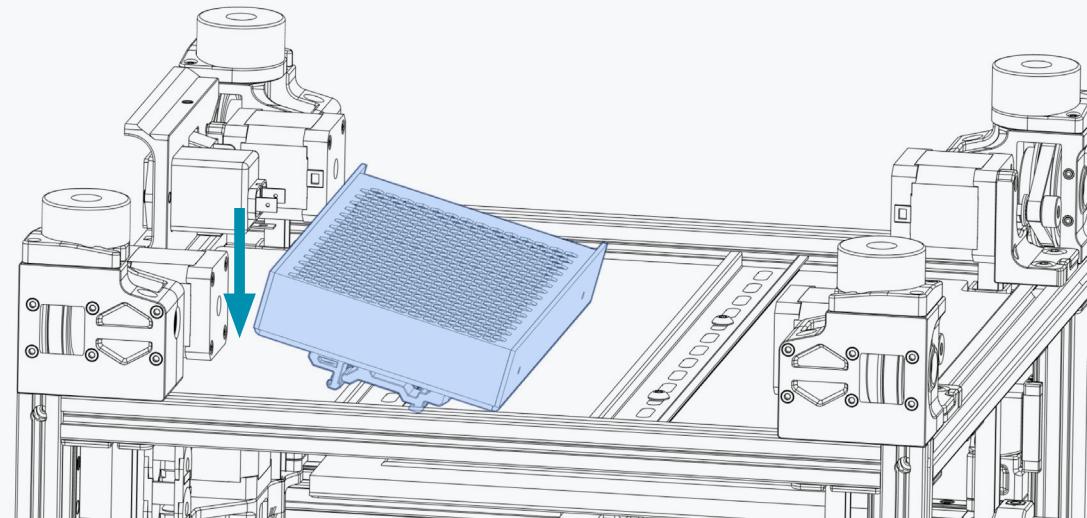


SNAP INTO PLACE

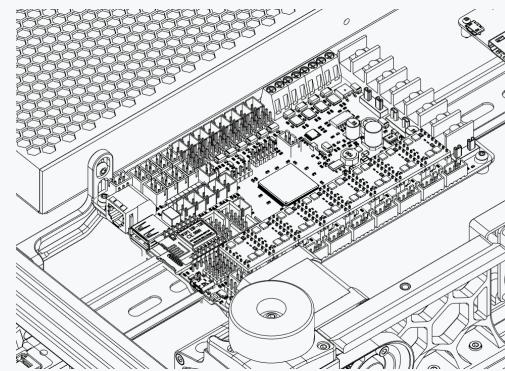
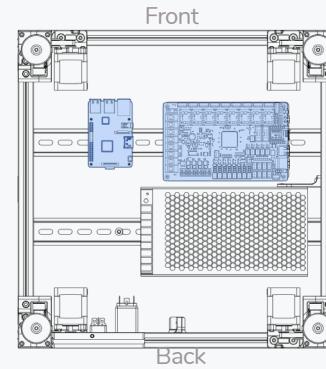
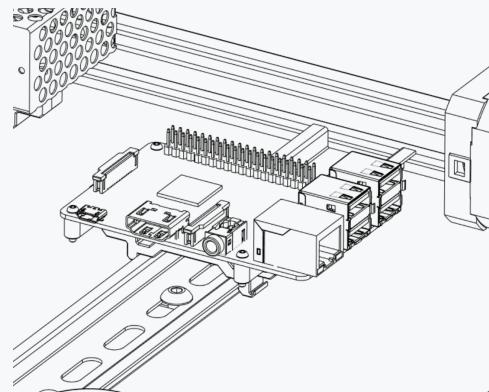
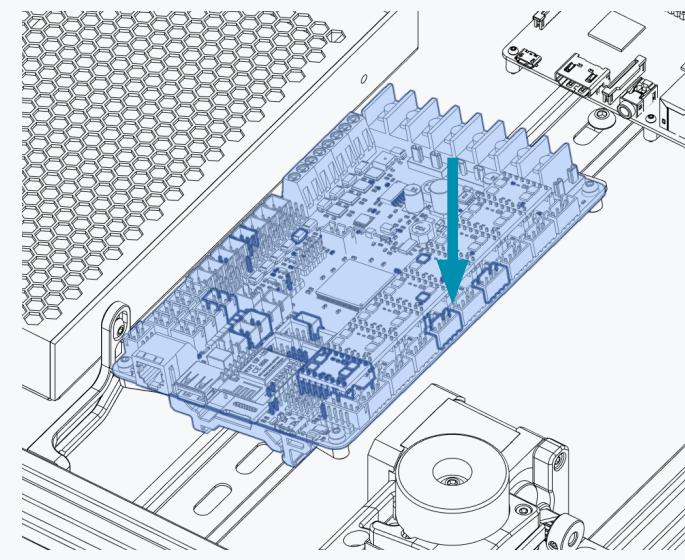
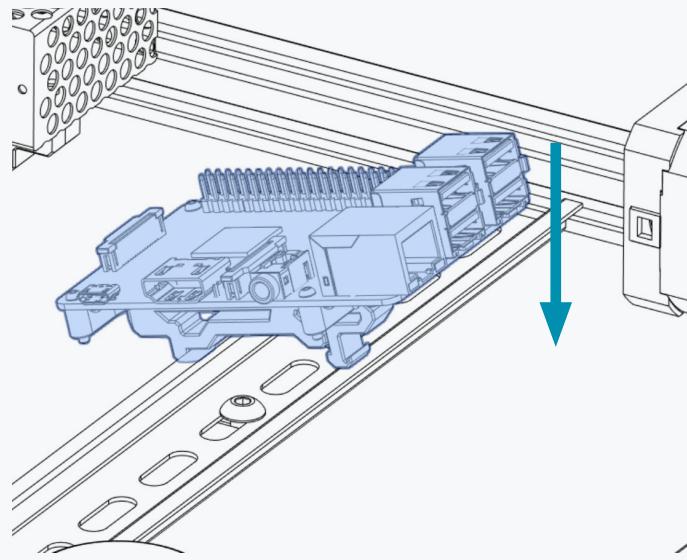
Press to snap the free side into place. The part should now sit securely on the DIN rail.

24V PSU

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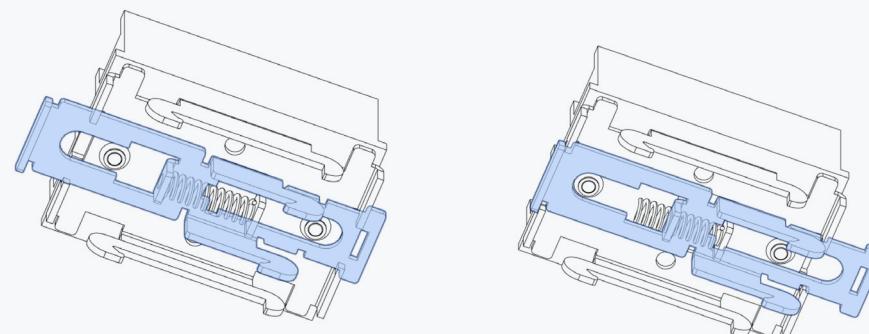
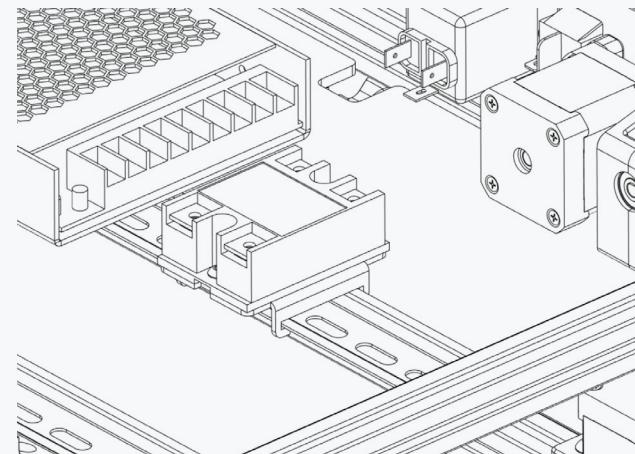
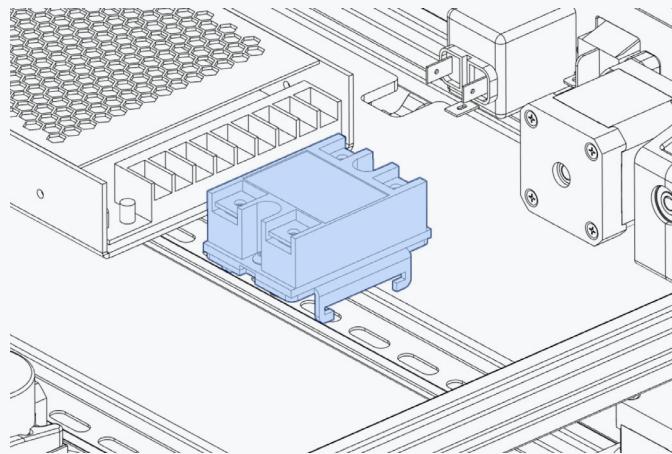
PI & CONTROLLER



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SOLID STATE RELAY

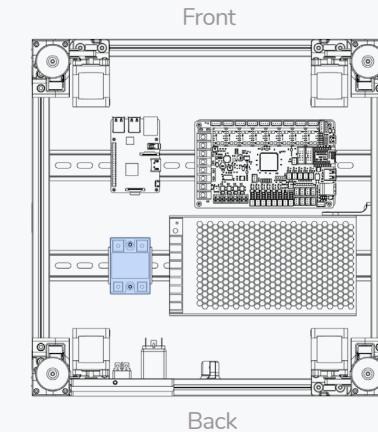
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SPRING-LOADED

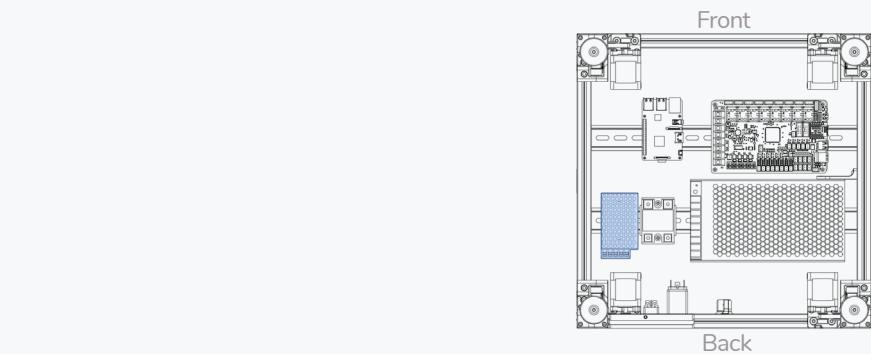
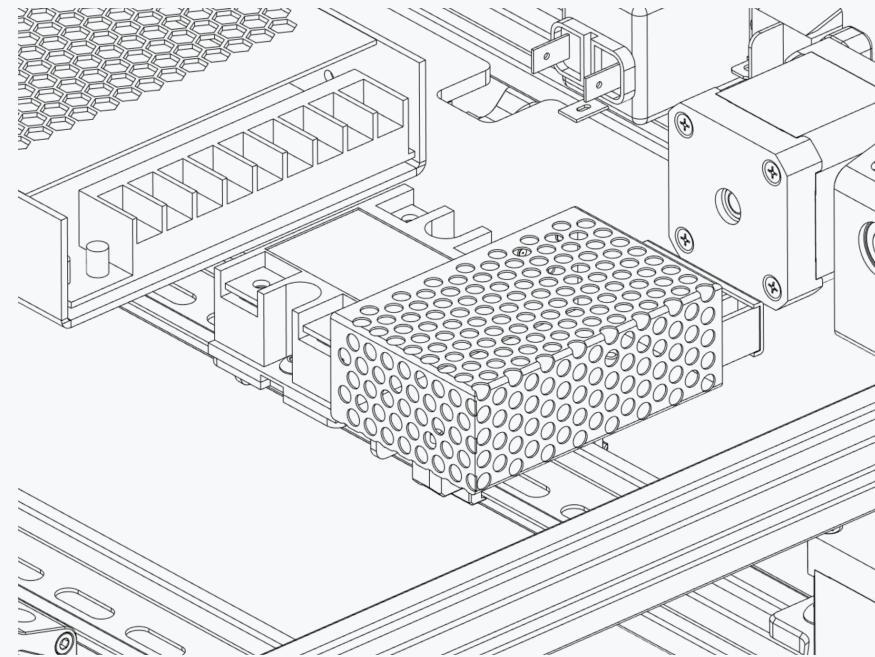
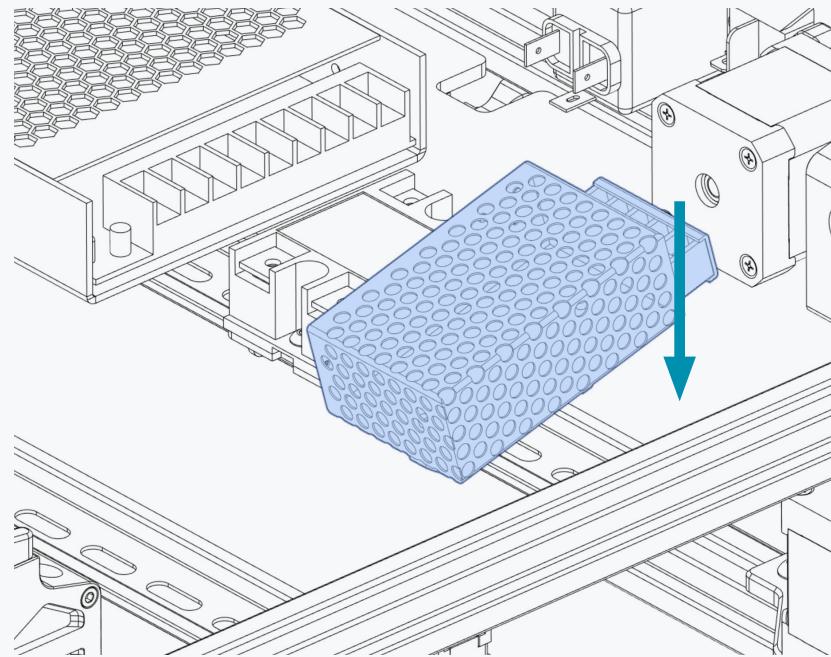
Use a flat head screw driver to pull the latch open. It will lock open.

Be careful when releasing the latch, it will snap back into place. Mind your fingers.



5V PSU

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By Febrary 2019 over 100 Voron2 printers had been built and serialized.