

Tulip

ASSEMBLY MANUAL

“Everything will be alright as long as
you have your -ing potato.”

Mr. Tulip, to Mr. Pin, The Truth, by Terry Pratchett

WELCOME TO TULIP, PLEASE ENJOY YOUR STAY

IT'S NOT THE BEGINNING

This manual shoud be perceived as a continuation of the V0 assembly manual.

If you didn't build your V0 yourself please make sure you are familiar with the first chapters of it.

YOU ARE WATCHING THE ALPHA VERSION

This document is a work-in-progress type of thing. Currently there is no prior to install disassembly instructions and no put-it-all-together instructions. Please stay tuned for future versions.

COME JOIN US

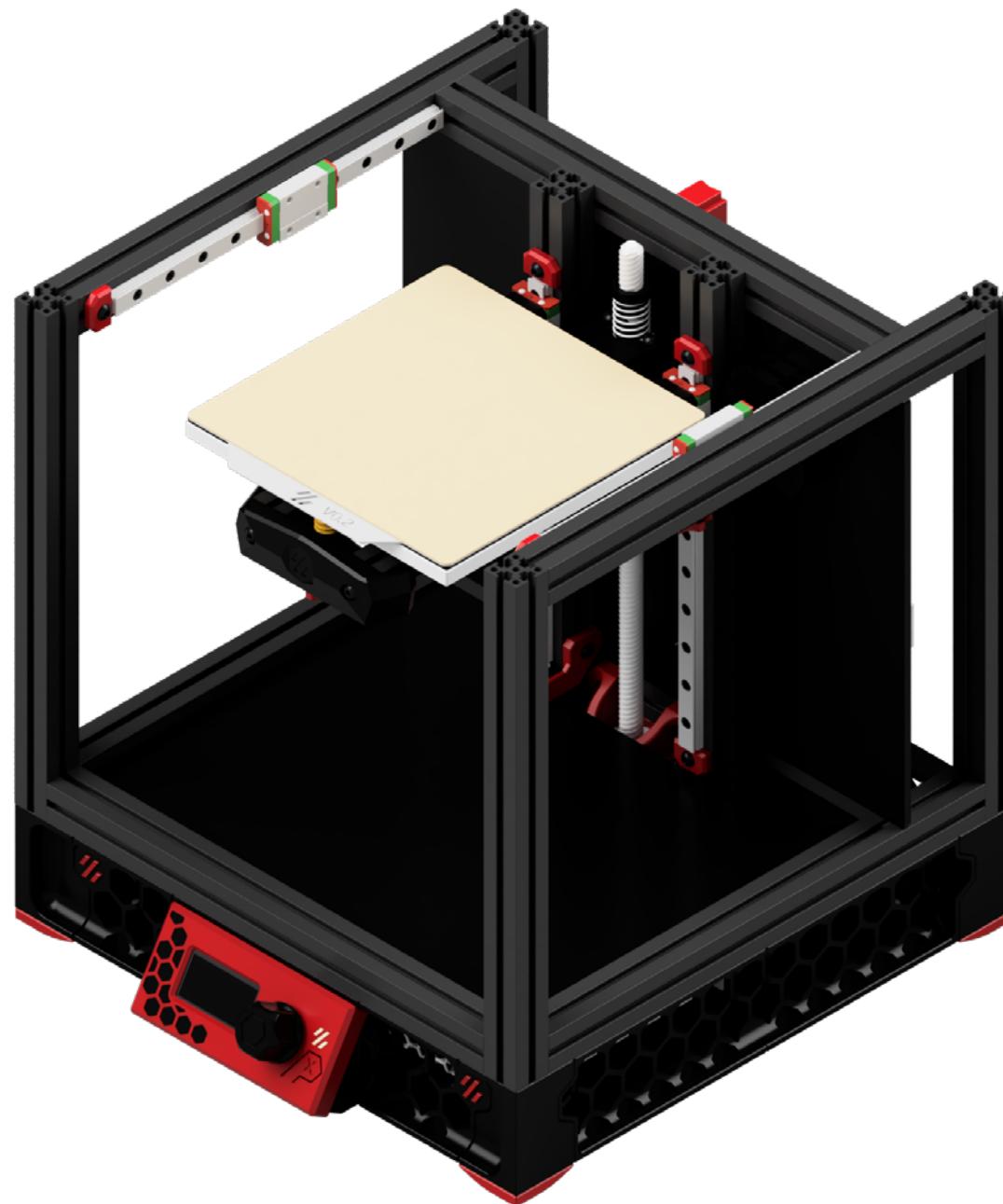
For help with your build please join our thread at Voron discord:

<https://discord.com/channels/460117602945990666/1259699805693808681>



DISASSEMBLY

GITHUB.COM/AMEKYRAS/TULIP

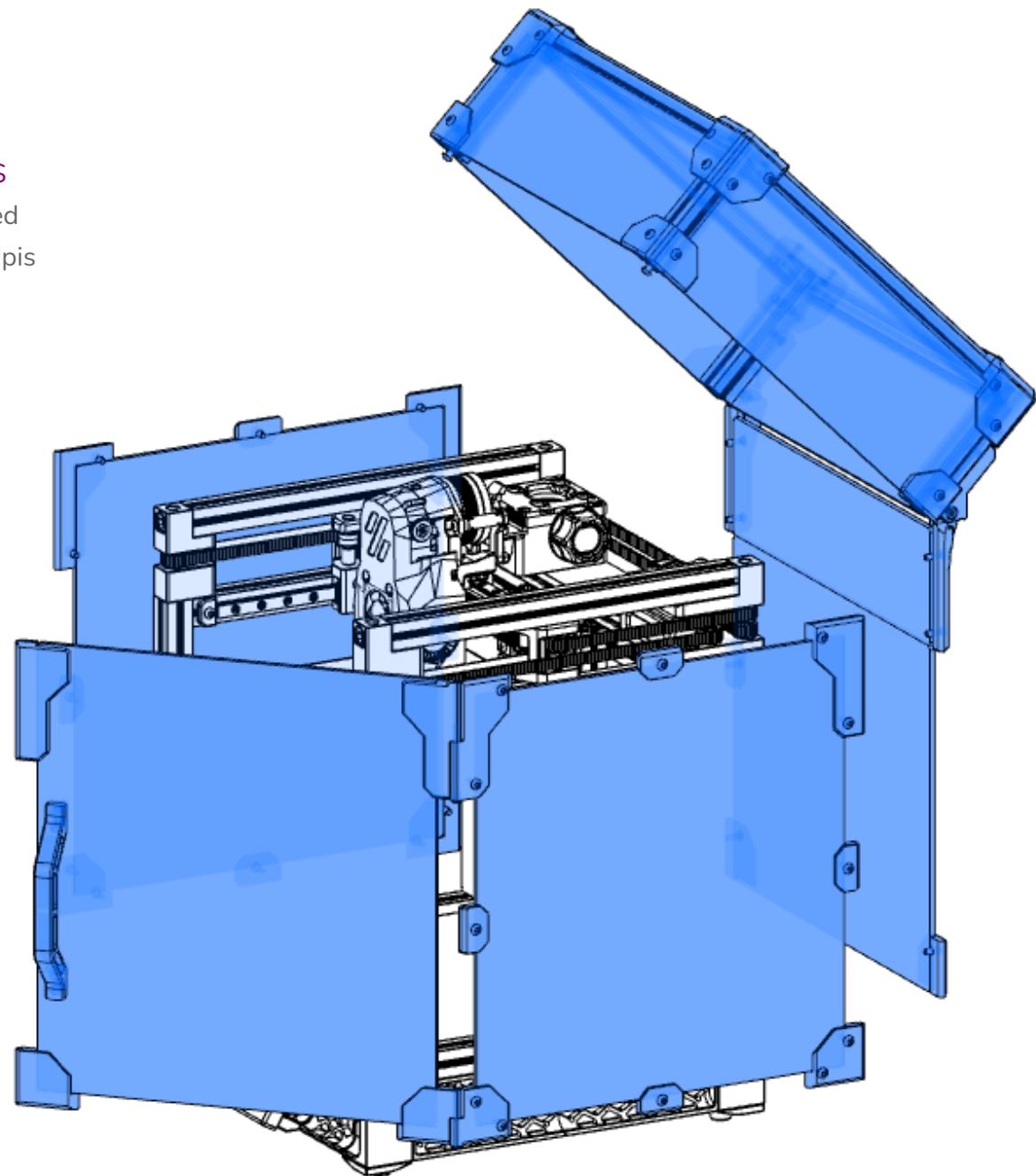


DISASSEMBLY

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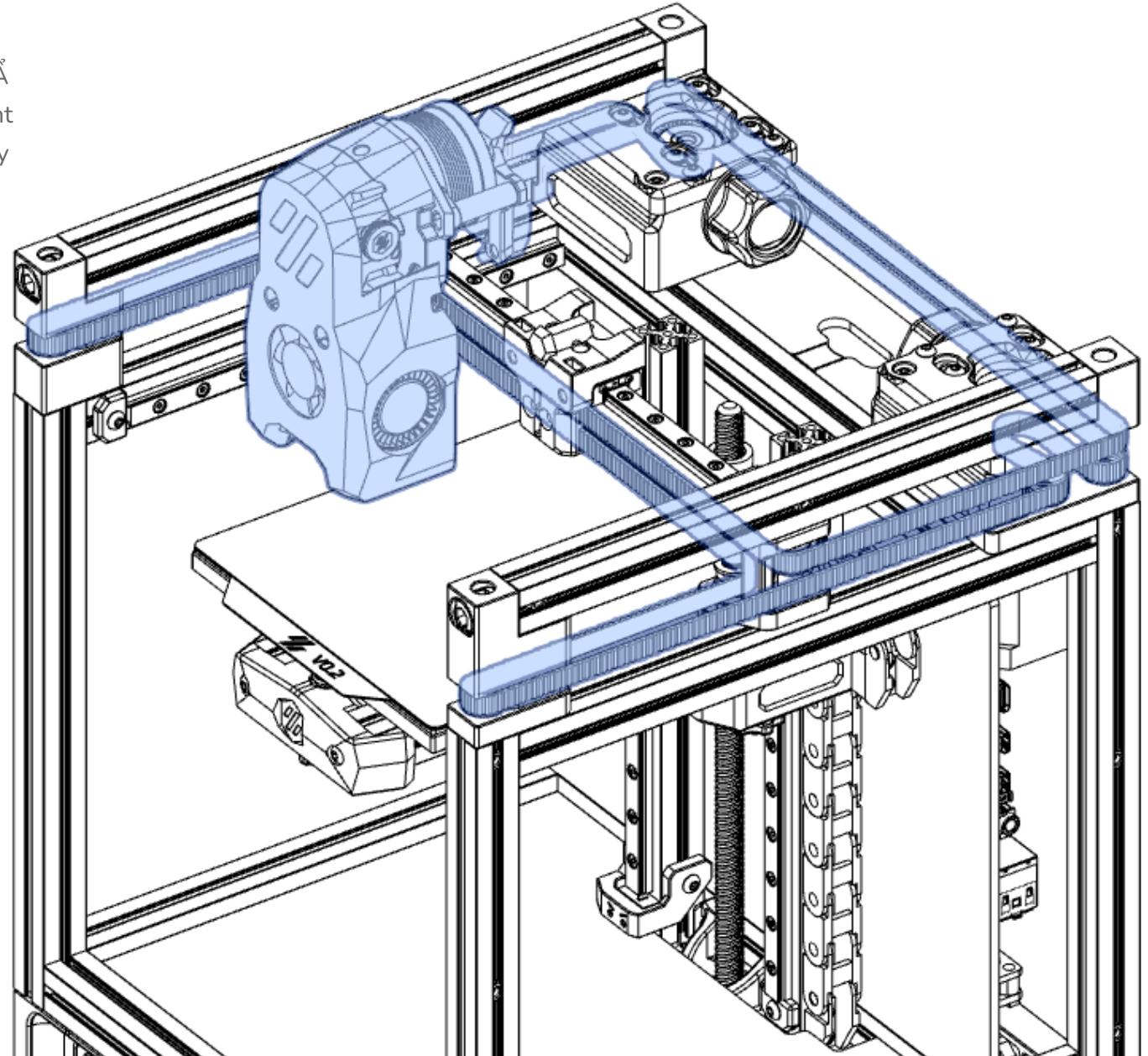
REMOVE TOPHAT, DOOR AND SIDE AND REAR PANELS

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REMOVE MINISB AND BELTS

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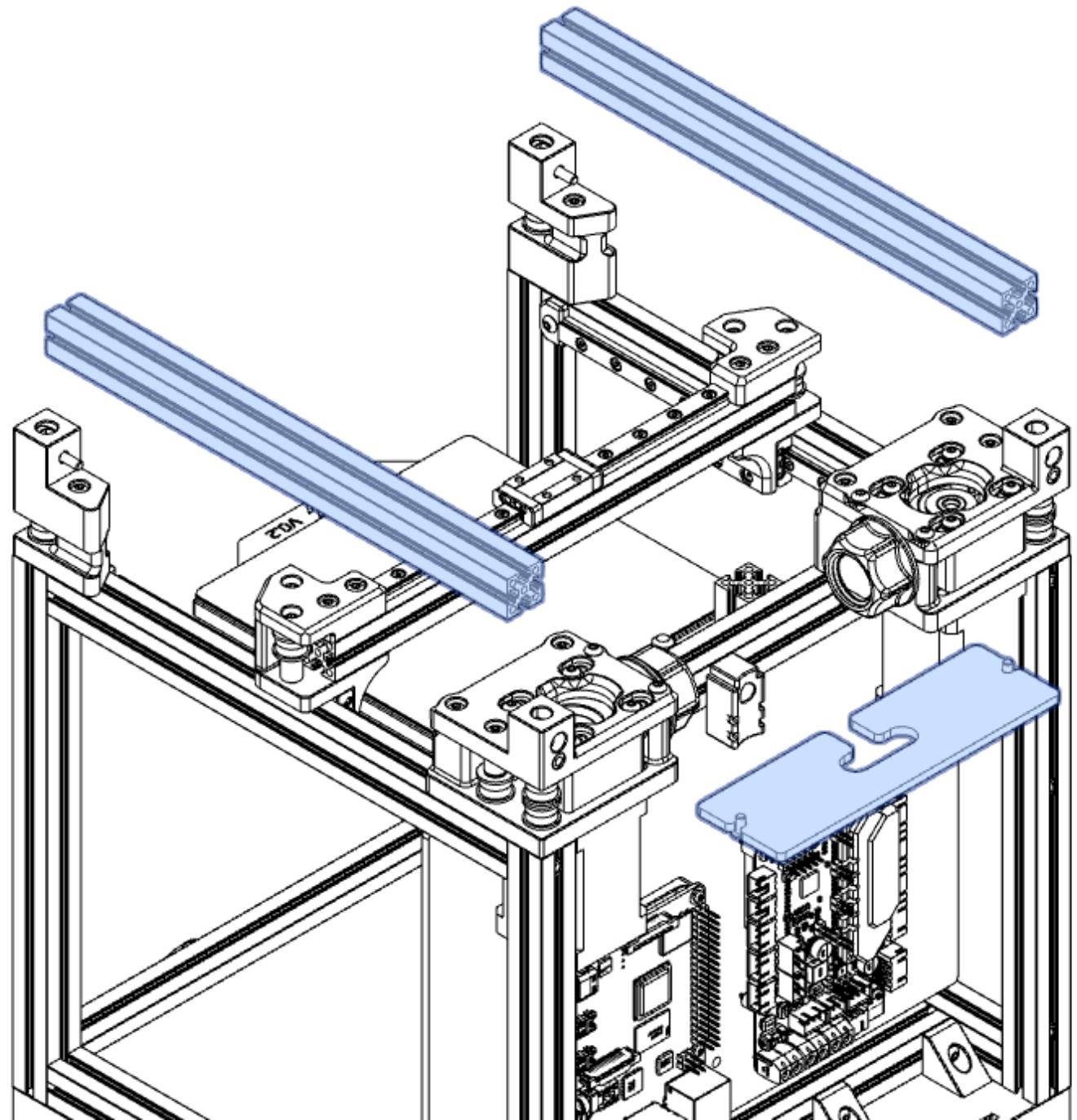


DISASSEMBLY

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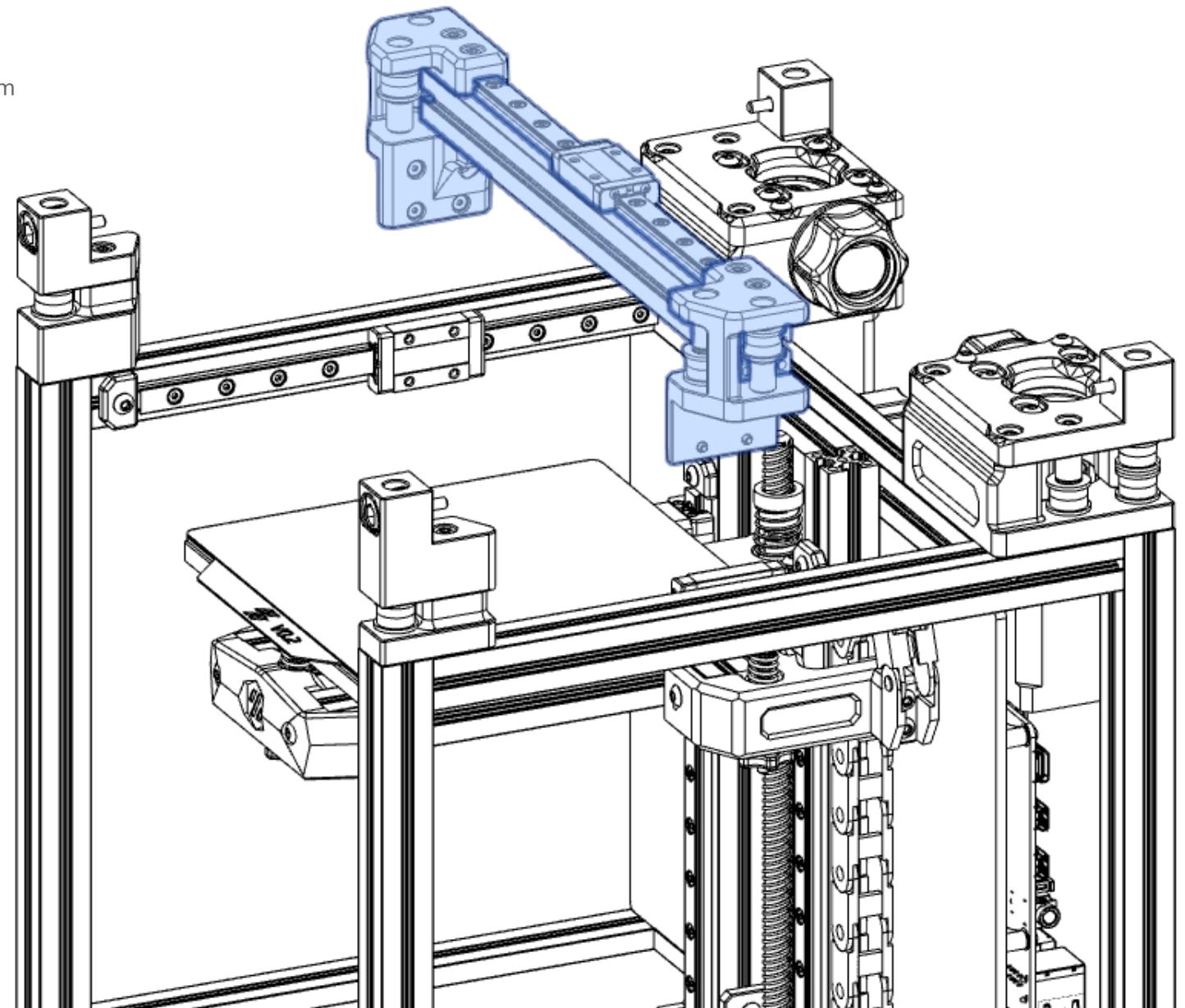
REMOVE TWO TOP EXTRUSIONS
AND MOTOR PANEL

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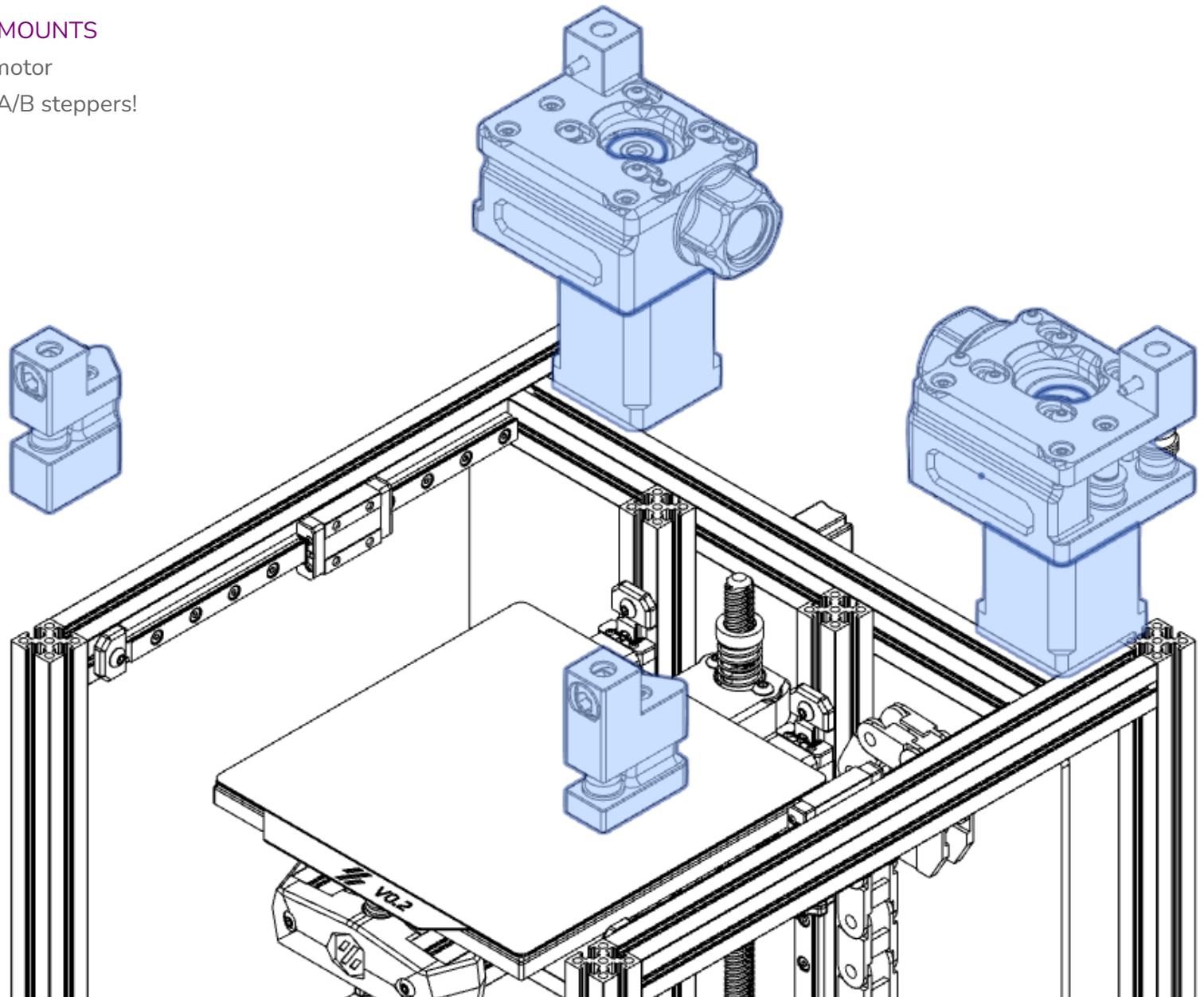
REMOVE THE GANTRY ASSEMBLY

Unscrew four M2x6 screws on both sides, remove the gantry and remove X/Y joints from the extrusion.

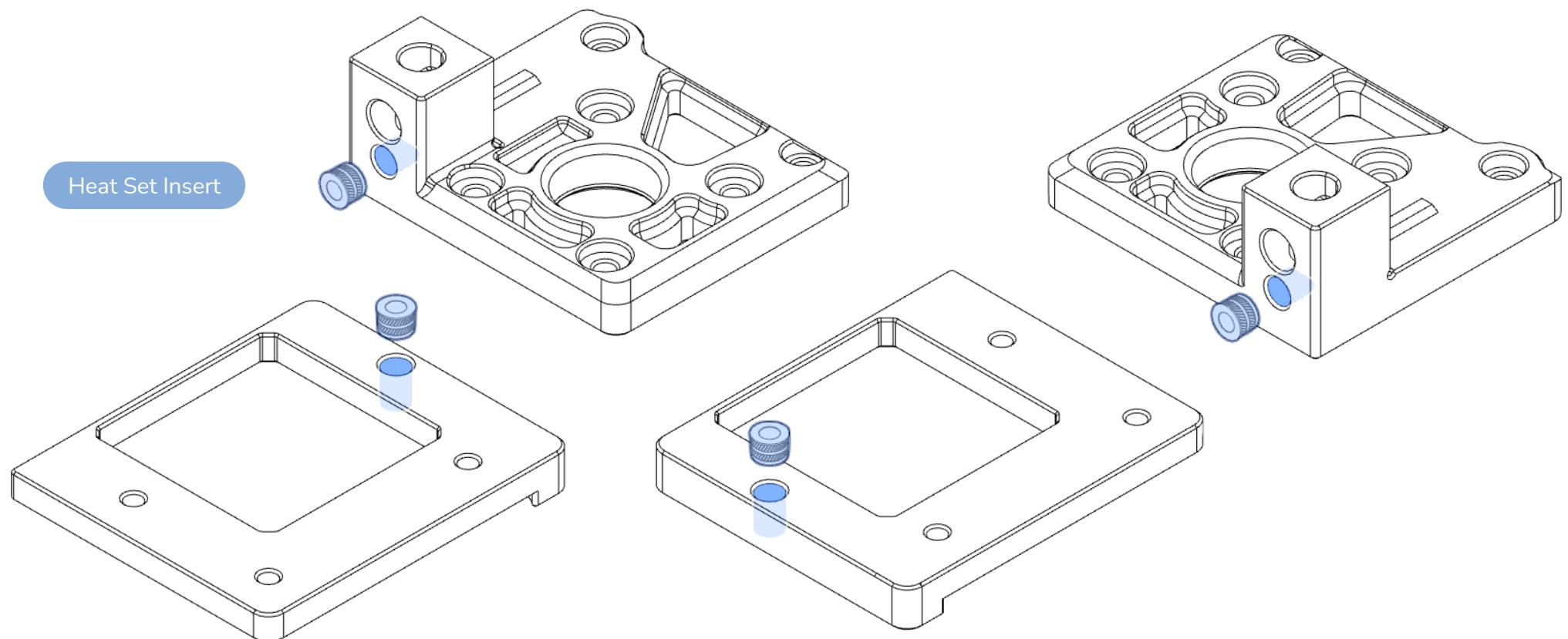


REMOVE FRONT IDLERS AND MOTOR MOUNTS

Finally, unscrew and remove idlers and motor assemblies. Don't forget to unplug your A/B steppers!



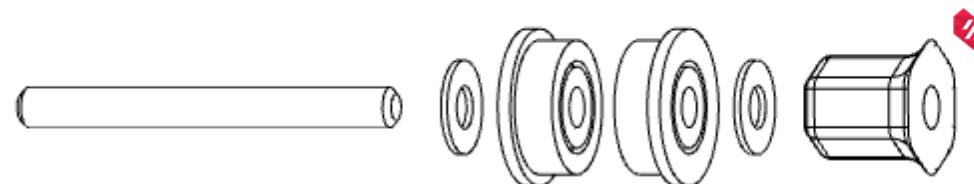
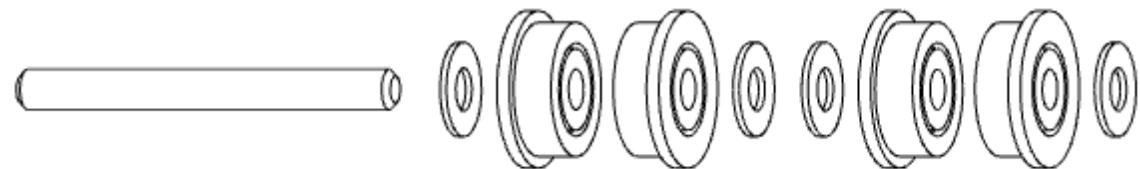




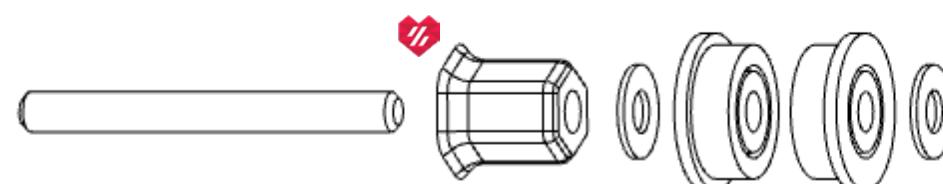
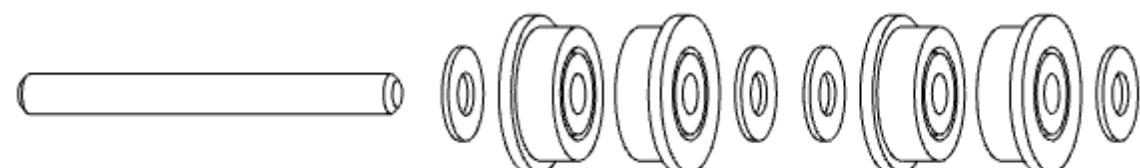
A DRIVE BEARINGS STACKS

Assemble M3x30 pins, newly printed tulip-shaped spacers and F623 bearings and washers salvaged from your existing build into a new and improved bearing stacks

You should end up with two sets

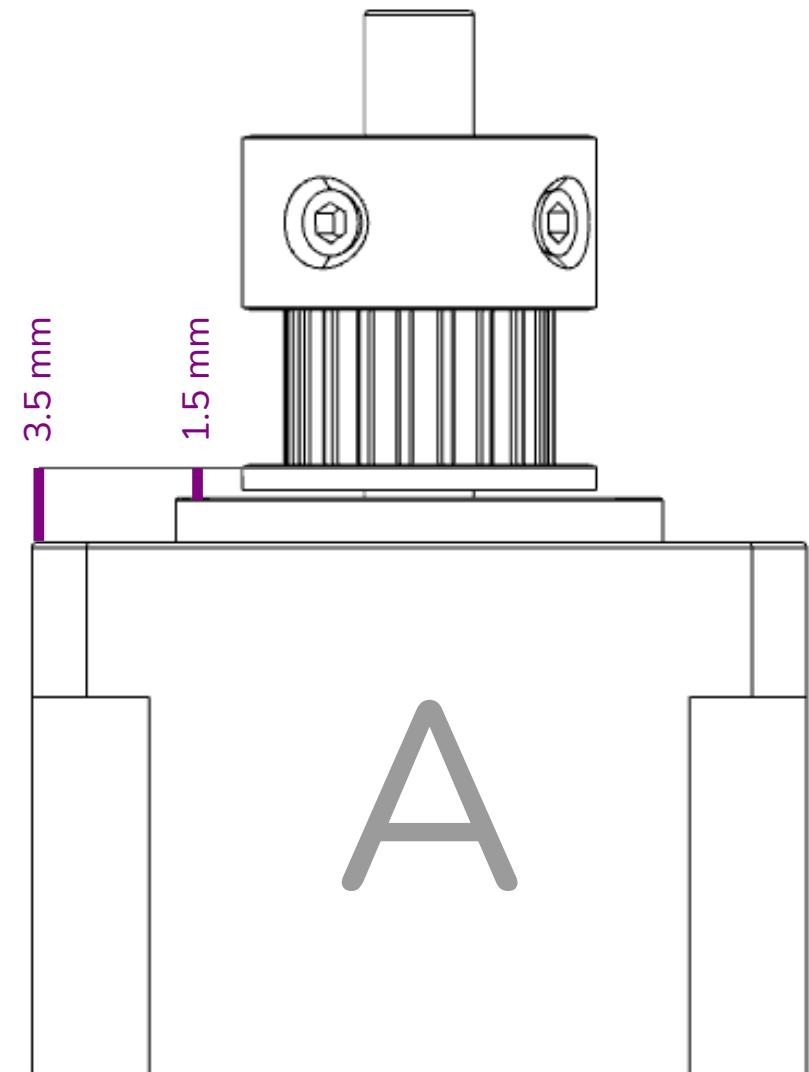
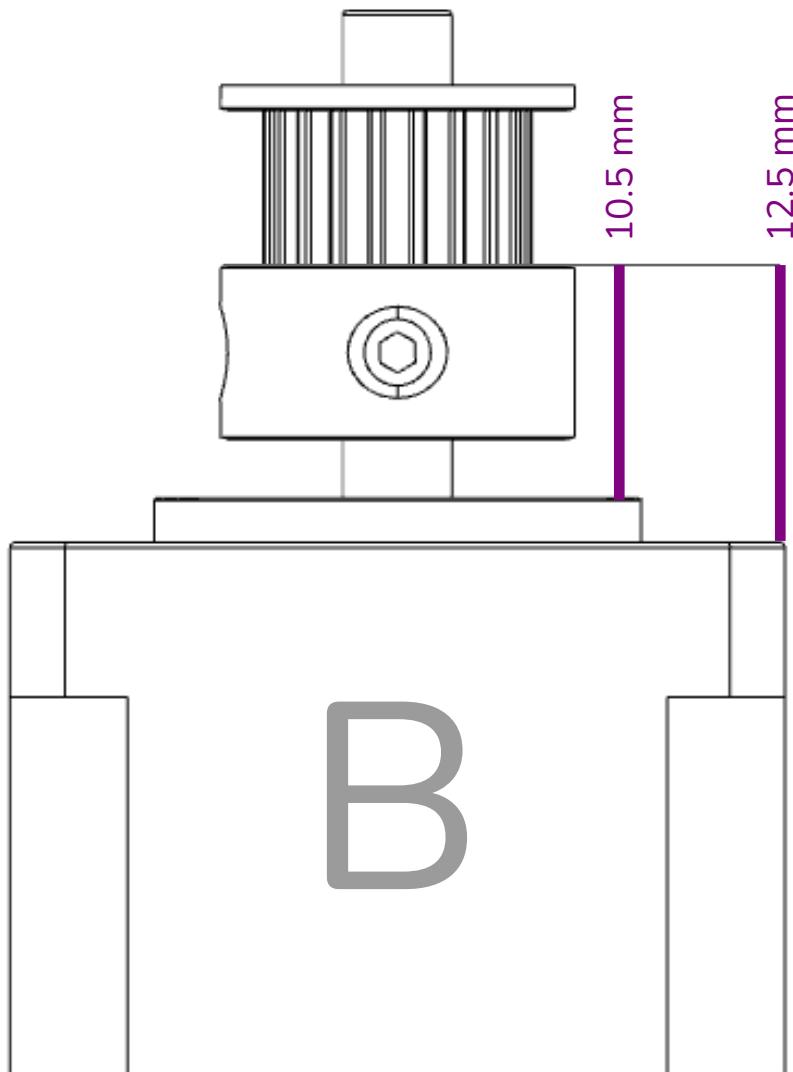


B DRIVE BEARINGS STACKS



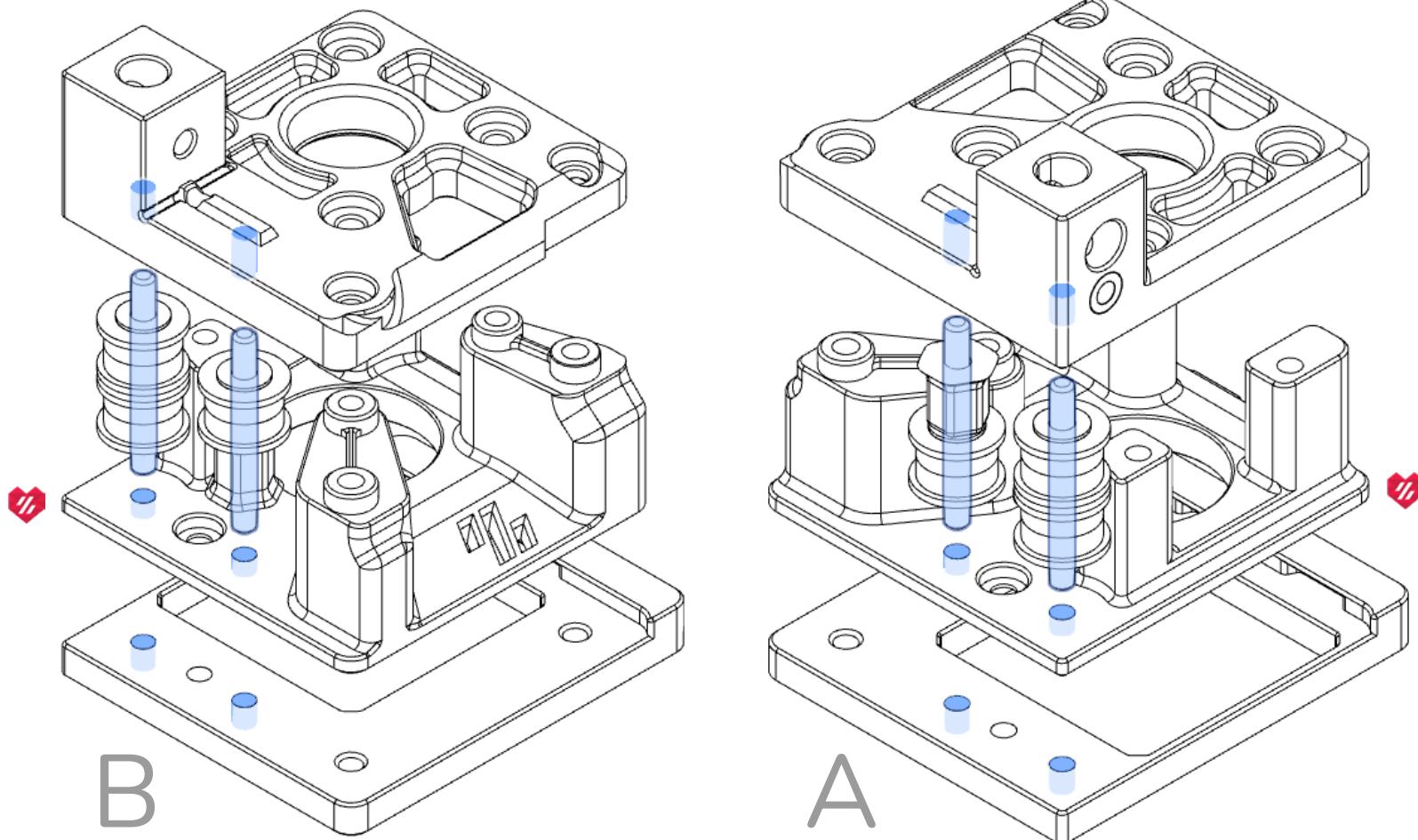
RELOCATE YOUR PULLEYS

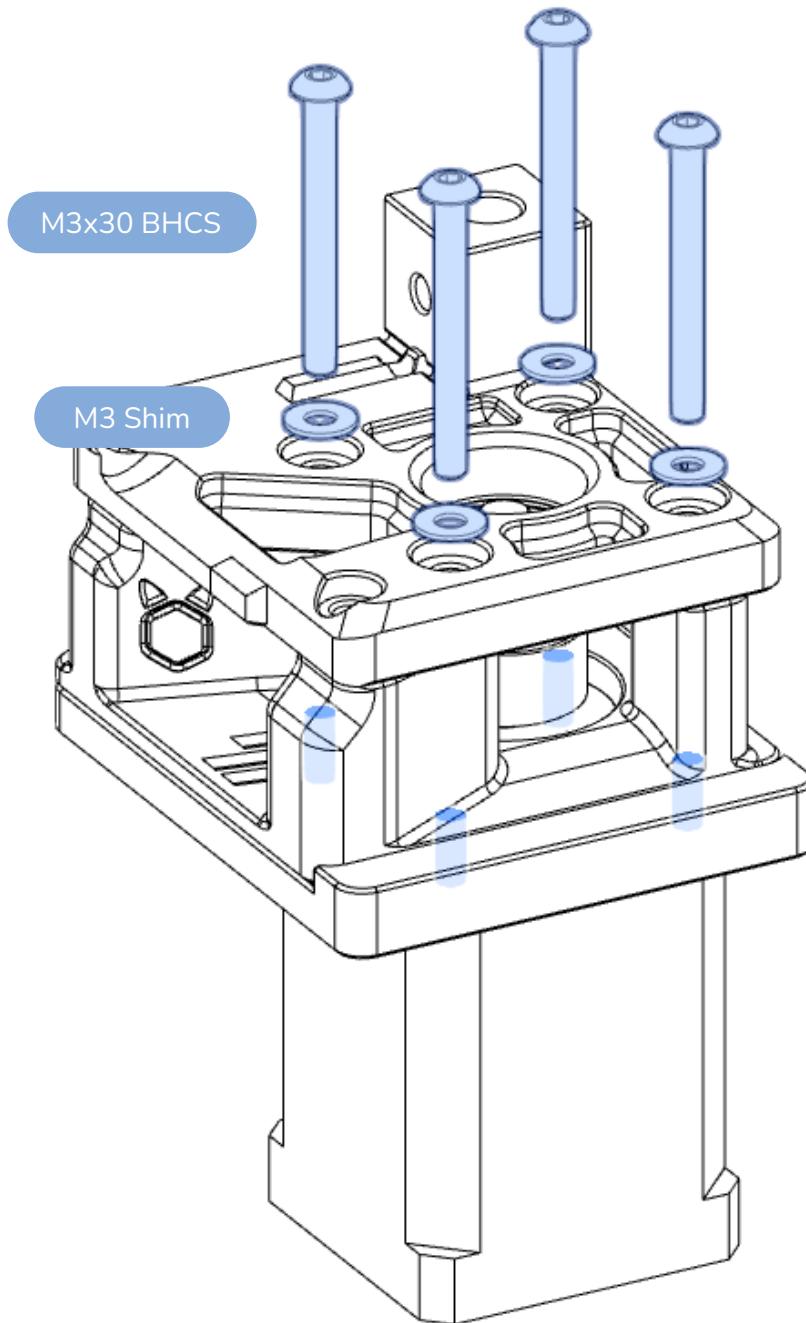
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ASSEMBLE THE MOTOR MOUNTS

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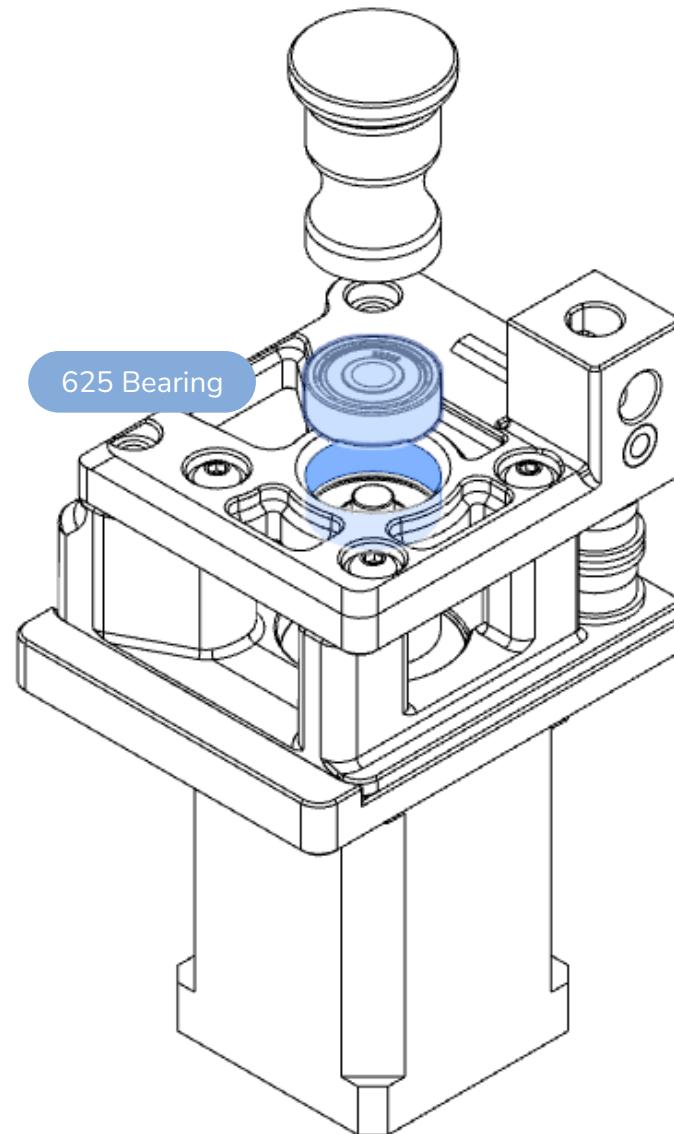


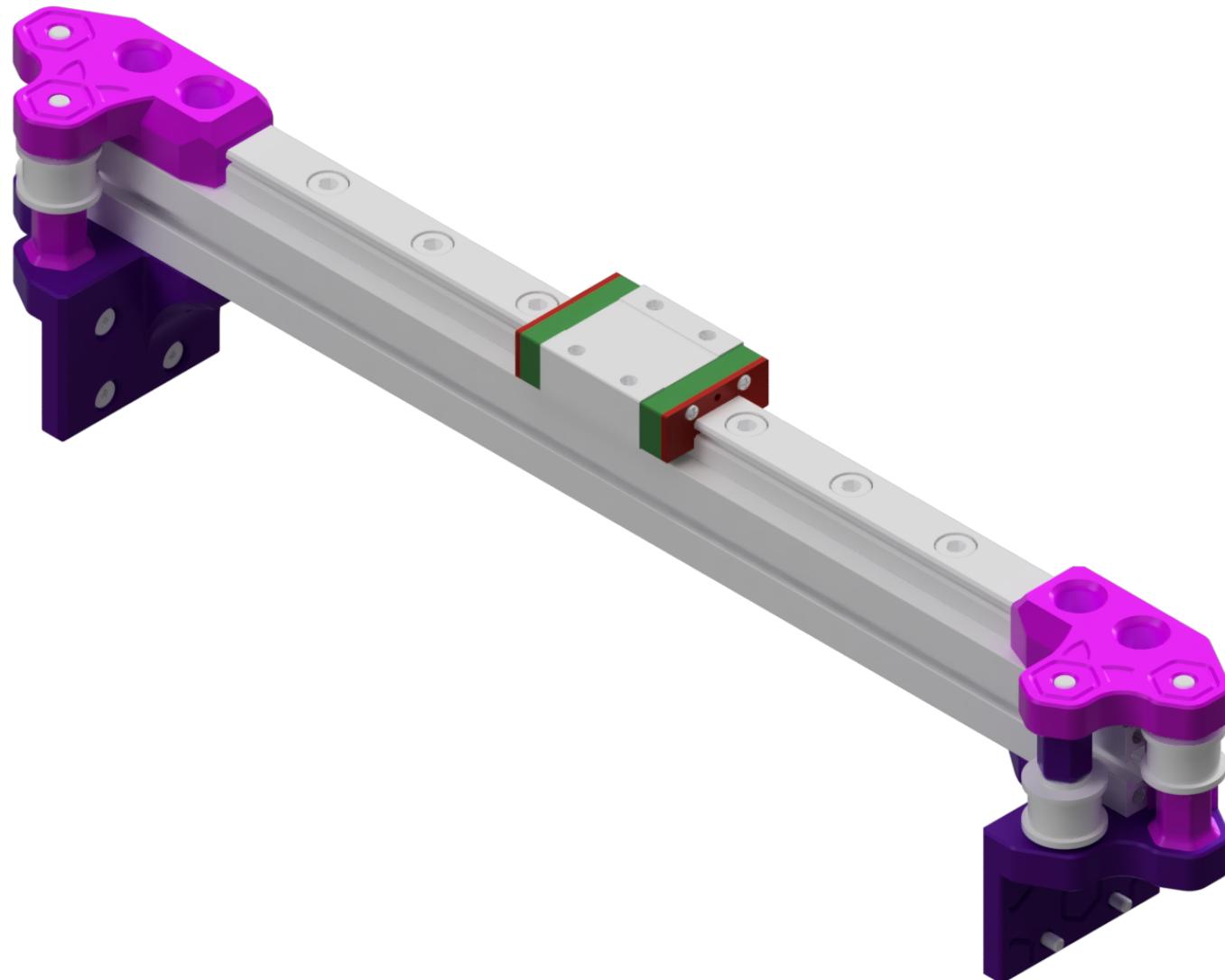
ATTACH BOTH MOTORS TO THE MOUNTS

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**INSERT 625 BEARING INTO IT'S SLOP ON
THE TOP**

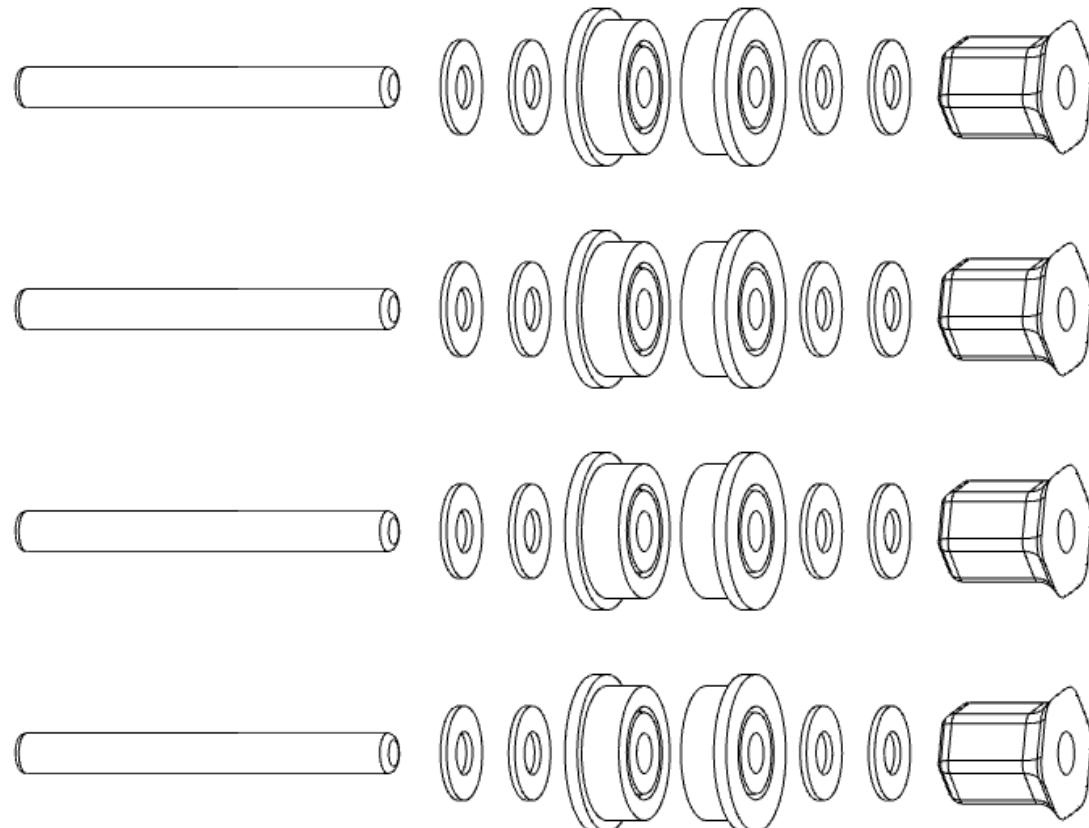
Use the included bearing-press tool to force
the bearing into it's place. Make sure the
motor shaft sits inside the bearing

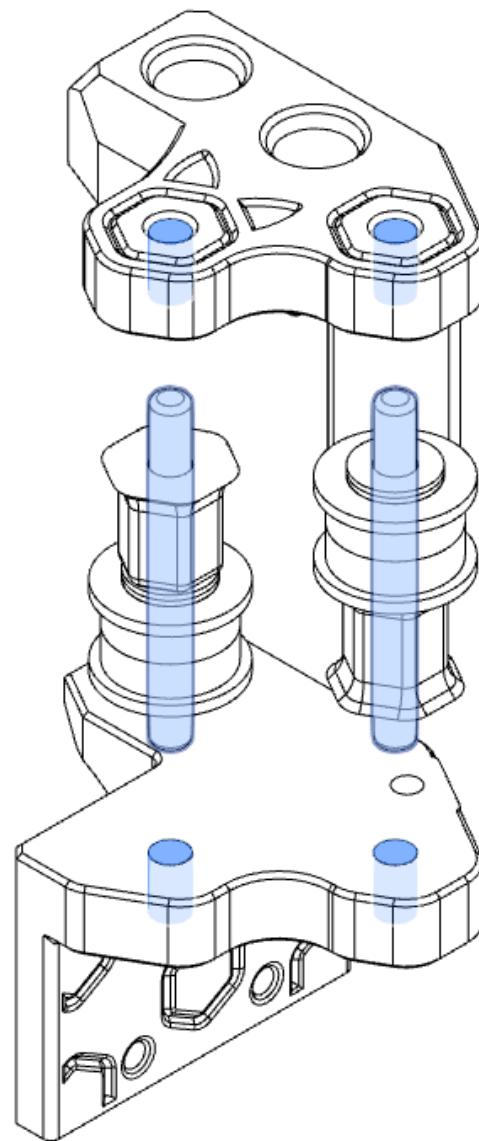
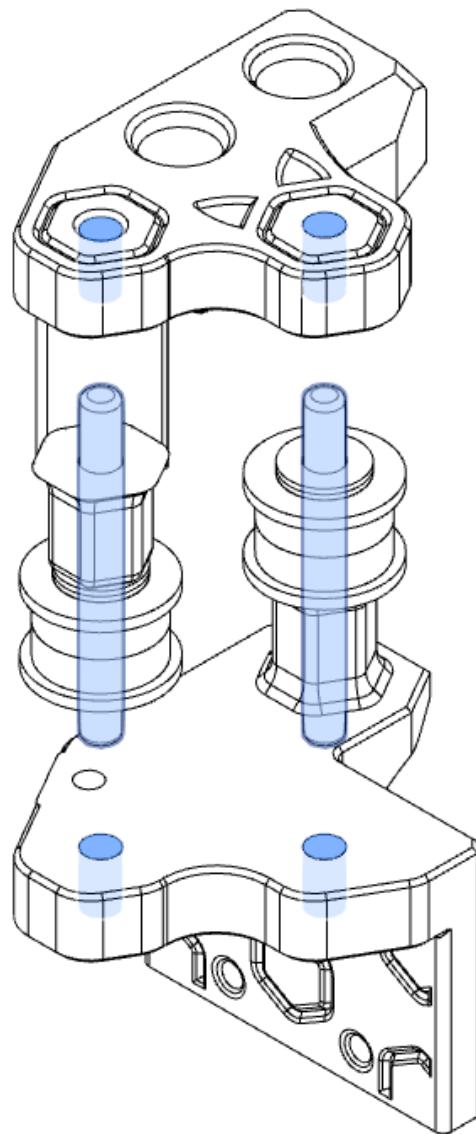


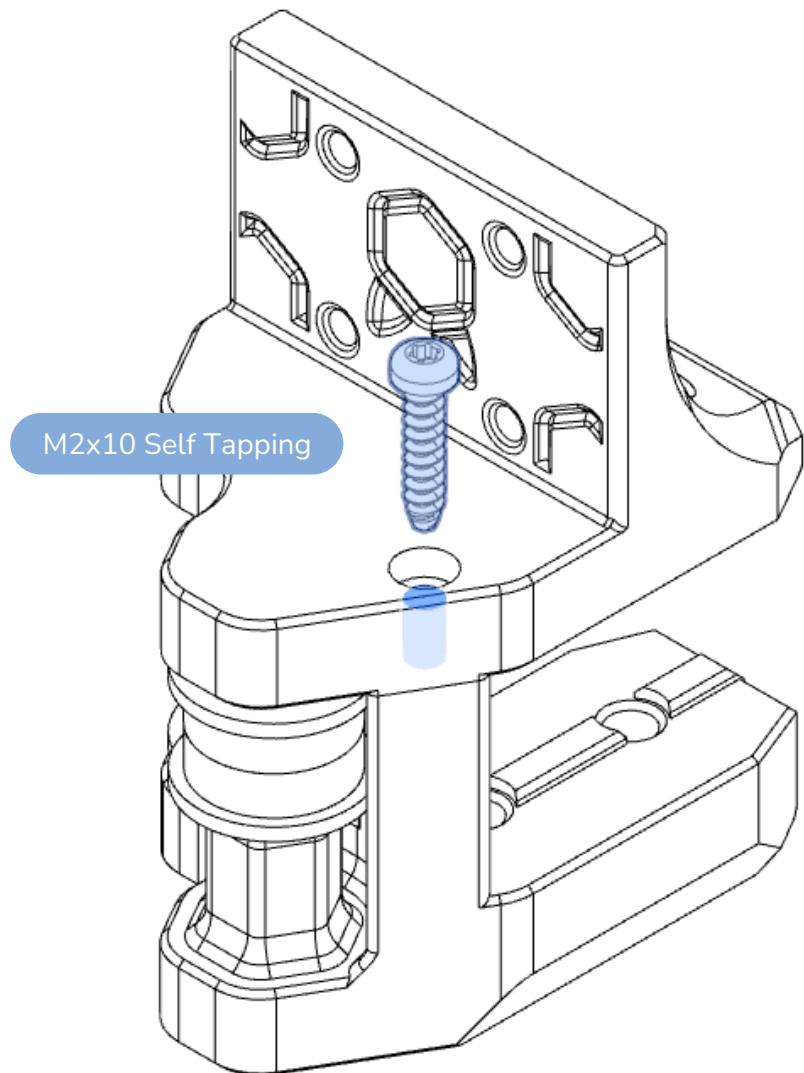


X/Y JOINTS BEARINGS STACKS

Assemble M3x30 pins, newly printed tulip-shaped spacers and F623 bearings and washers salvaged from your existing build into a new and improved bearing stacks again







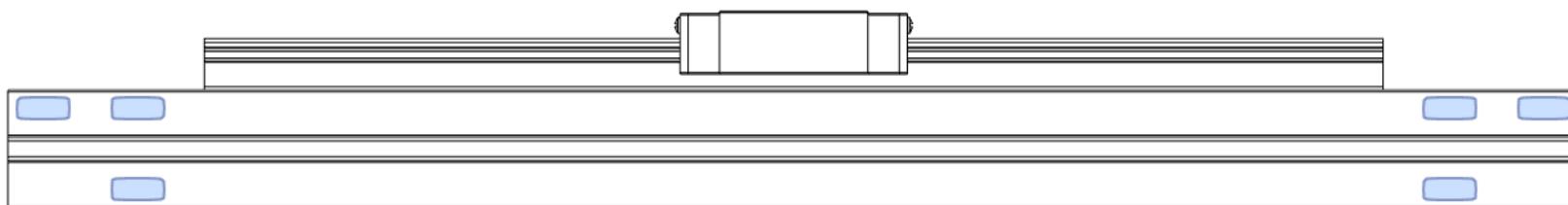
ADD A SELF TAPPING SCREW TO BOTH OF THE X/Y JOINTS

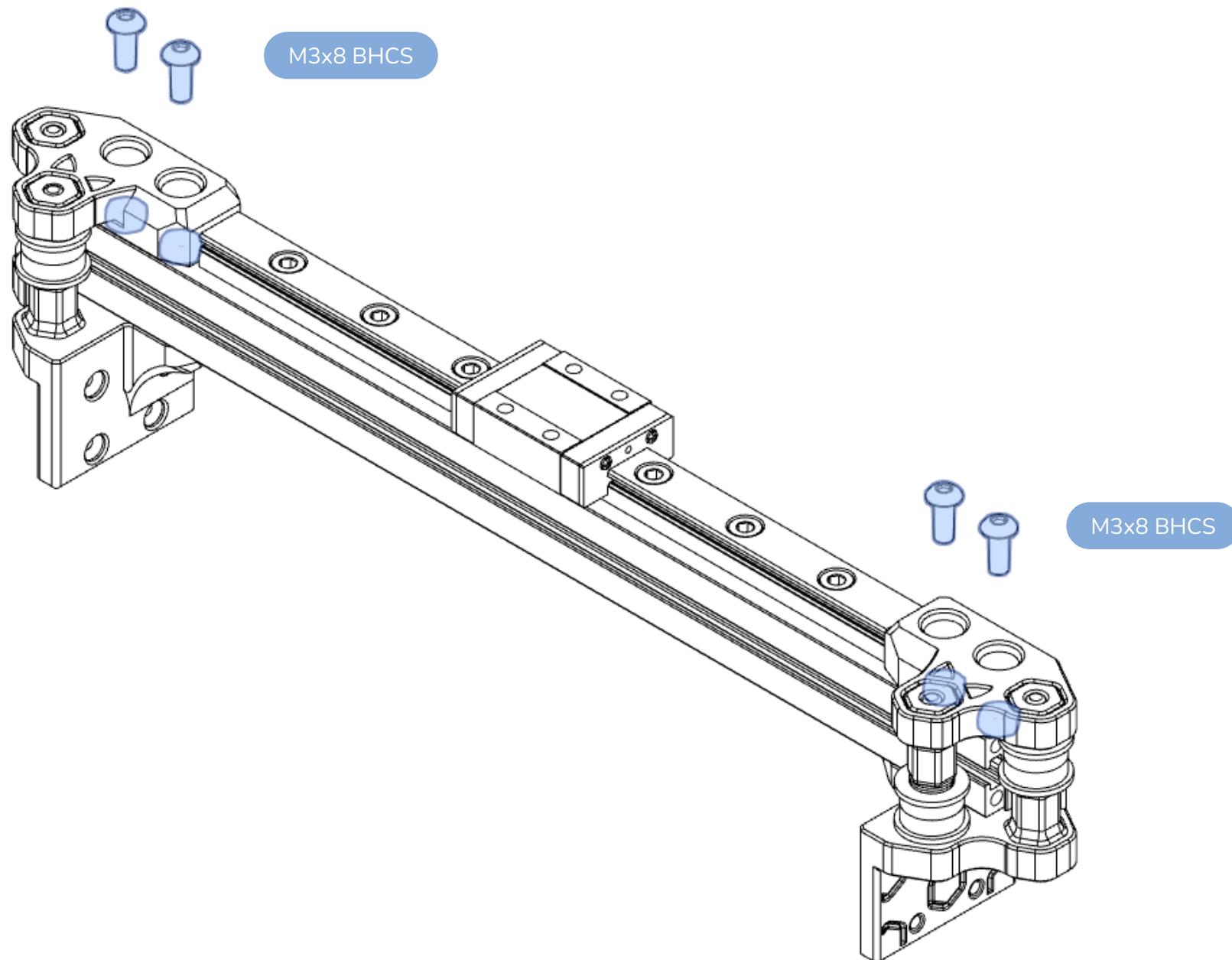
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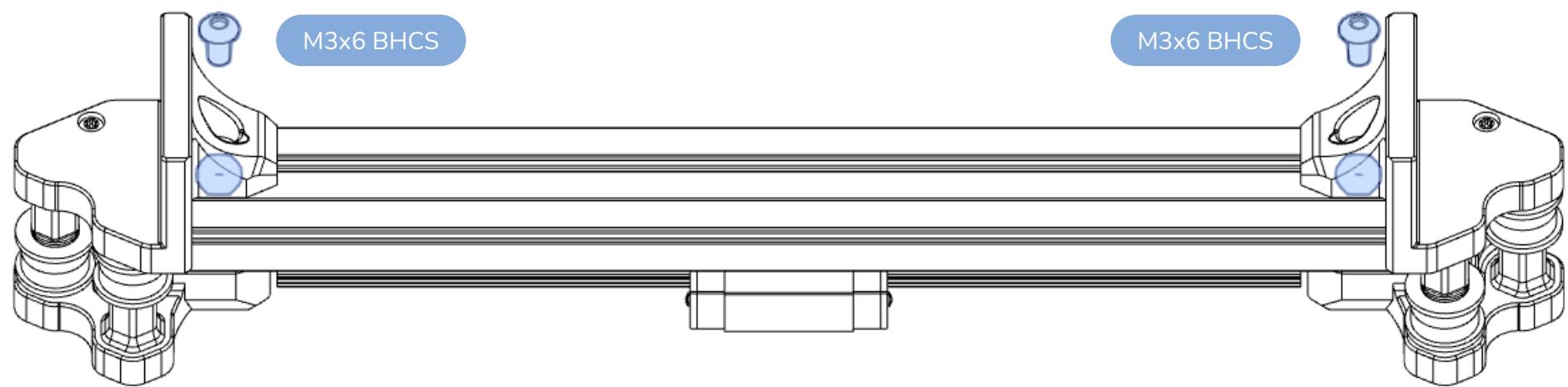
PRELOAD SIX NUTS

Four into the top groove, two on both sides

Two into the bottom groove, one on each side

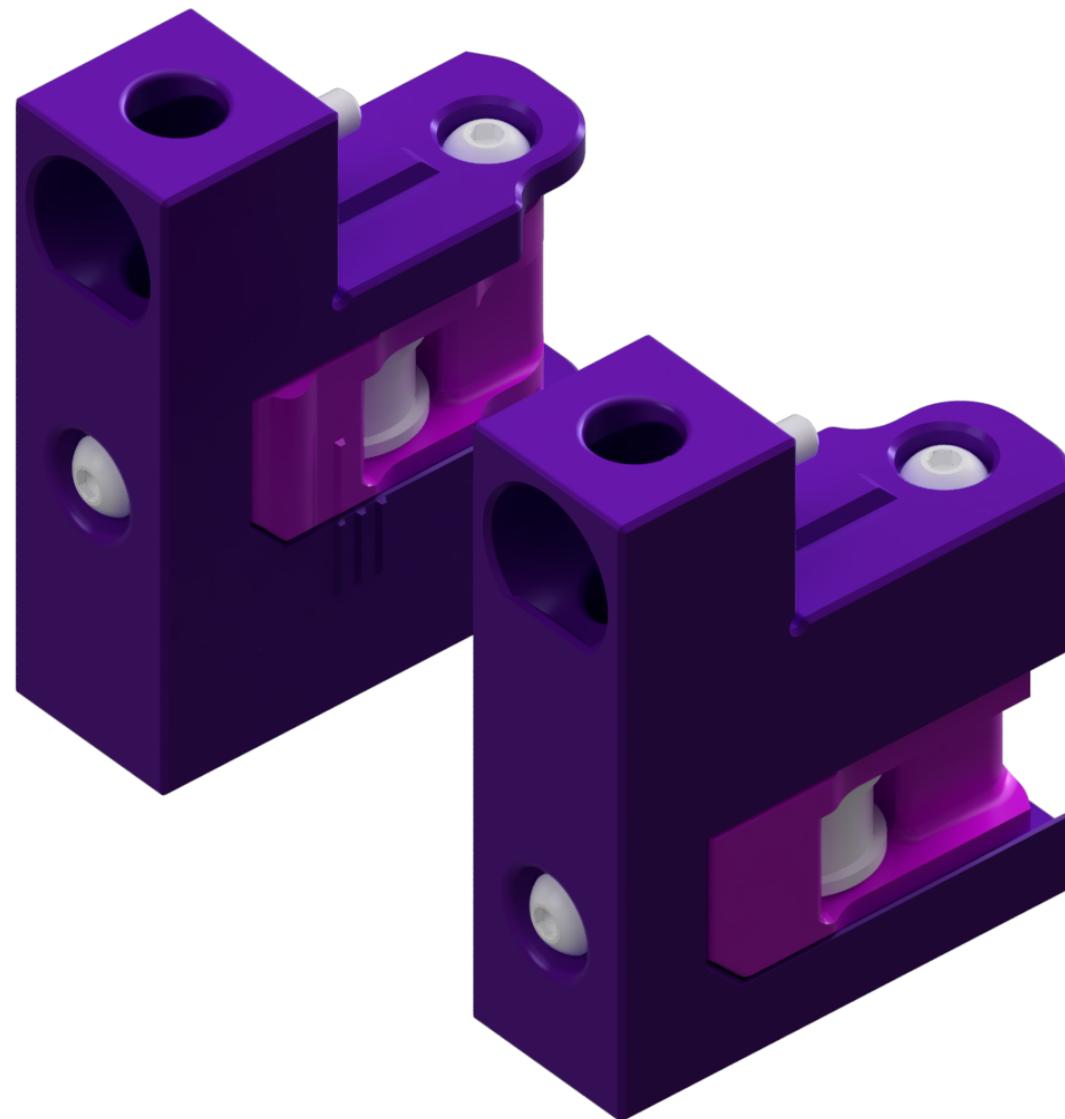






FRONT TENSIONERS

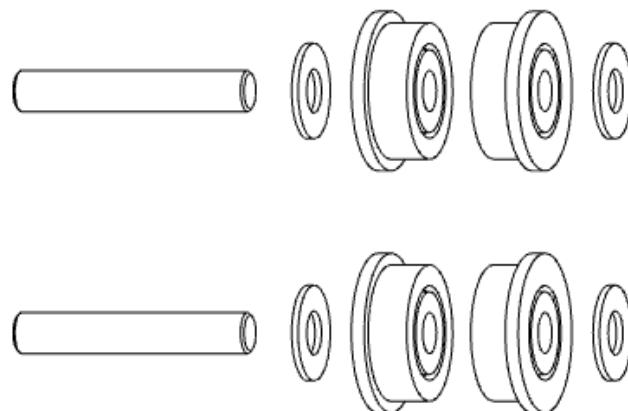
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TENSIONERS BEARINGS STACKS

Finally, assemble M3x18 pins and F623 bearings and washers salvaged from your existing build into a new and improved bearing stacks

You should end up with two stacks

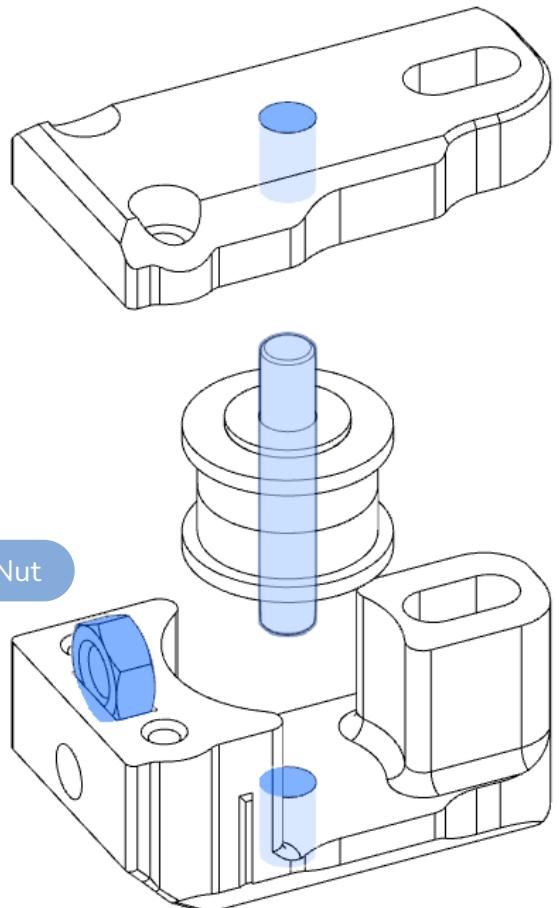


FRONT TENSIONERS

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ASSEMBLE BOTH IDLERS

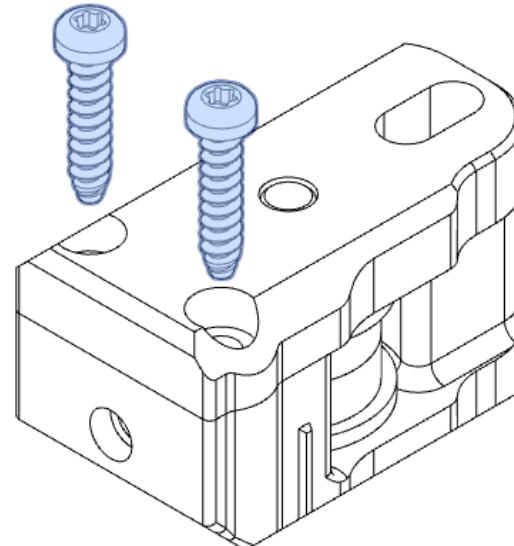
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LOCK BOTH IDLERS WITH SELF TAPPING SCREWS

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M2x10 Self Tapping

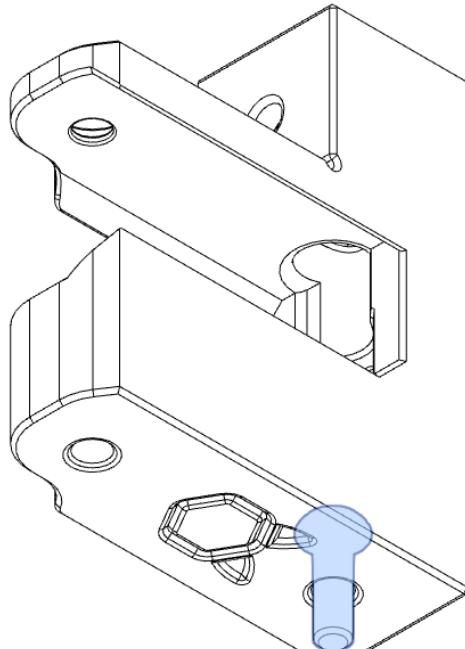


FRONT TENSIONERS

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ADD A SCREW TO BOTH ASSEMBLIES

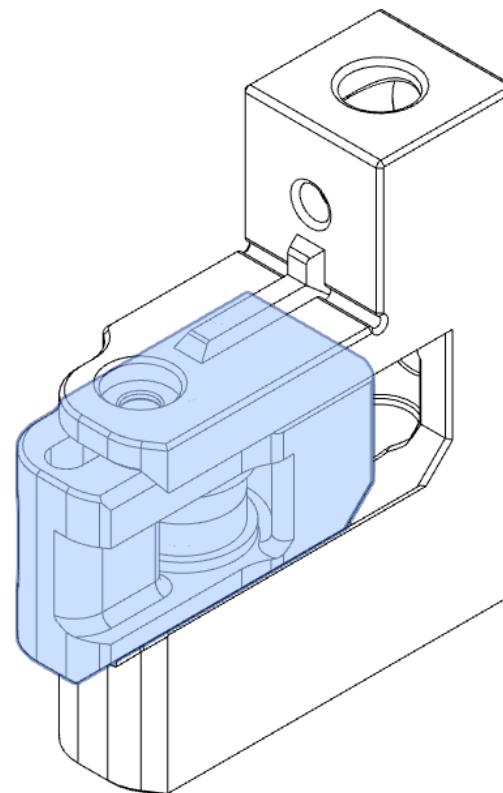
You'll need it later to secure the tensioners to printer's frame



M3x10 BHCS

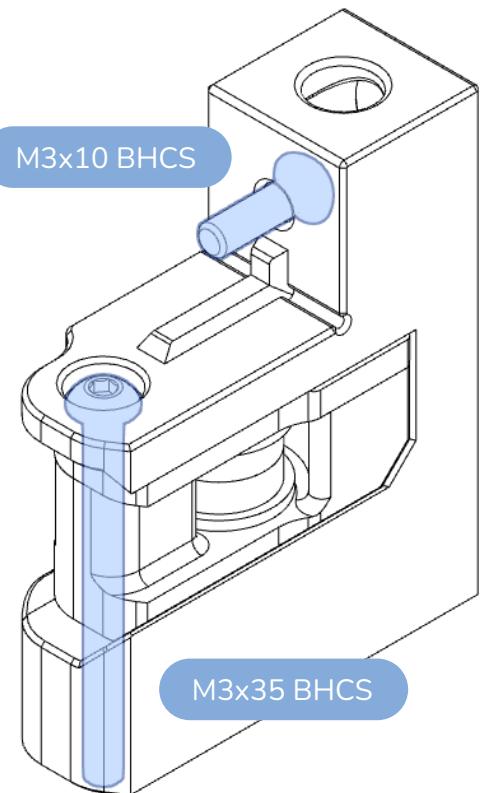
INSERT BOTH IDLERS INTO RESPECTIVE TENSIONER BODIES

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ADD TWO MORE SCREWS TO BOTH ASSEMBLIES

You'll need them later to secure the tensioners to printer's frame



M3x35 BHCS