

INTRODUCTION



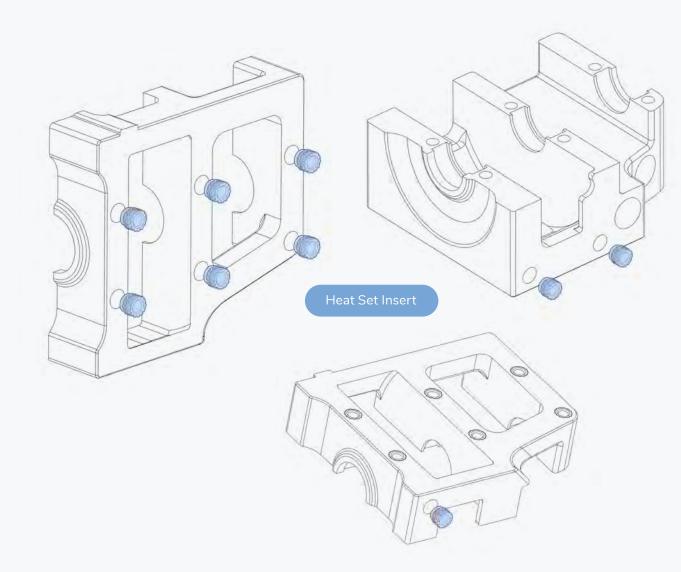
Before you begin on your journey, a word of caution.

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



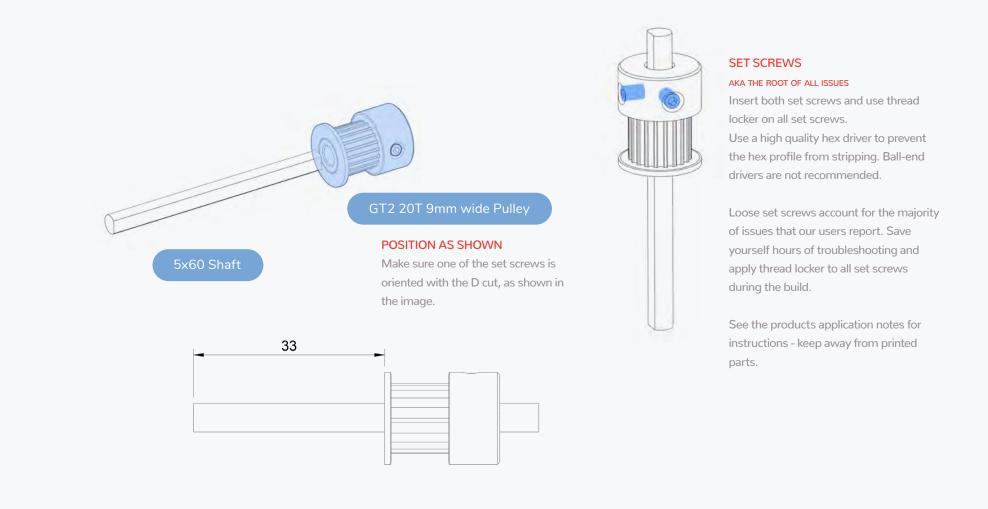
HEAT SET INSERTS

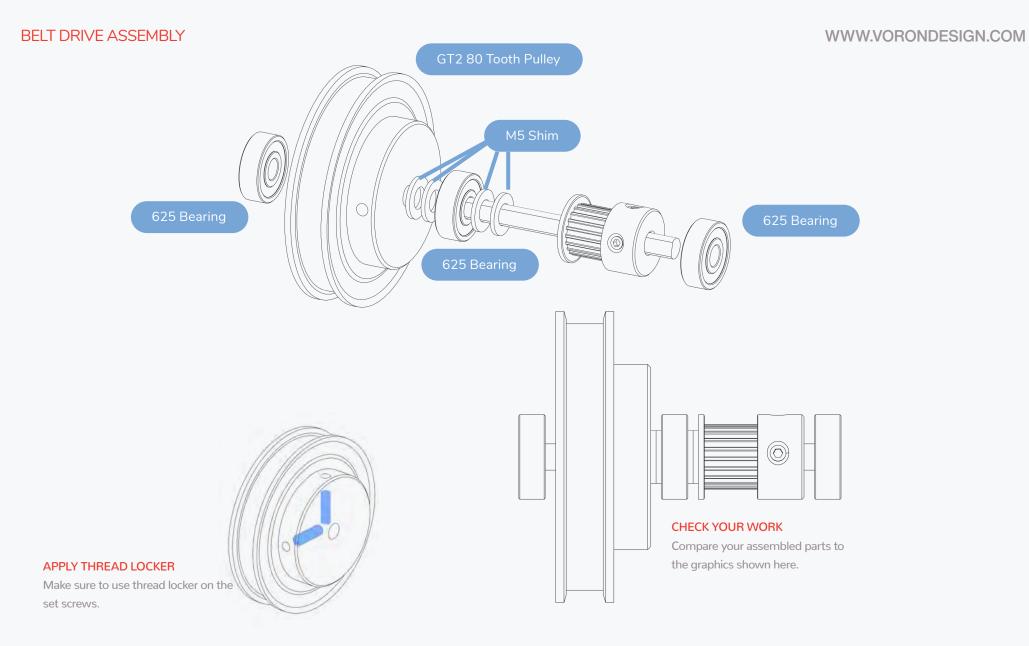
This design relies heavily on heat set inserts. Make sure you have the proper inserts (check the hardware reference for a close up picture and the BOM for dimensions).

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

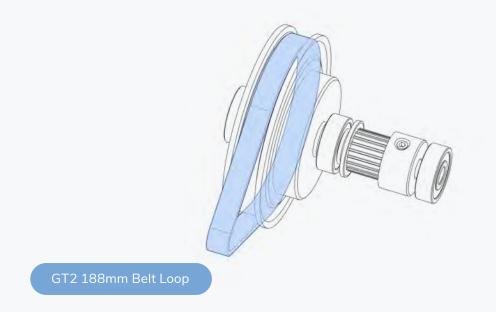


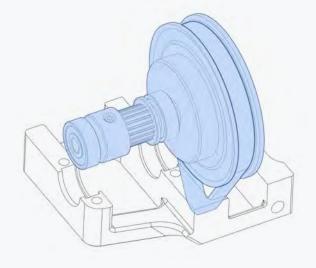
https://voron.link/m5ybt4d

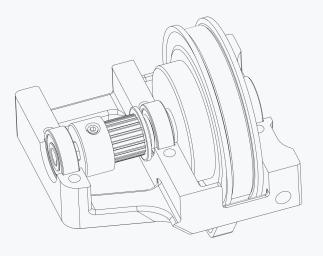




Z DRIVE

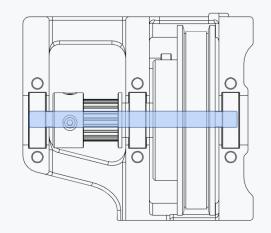




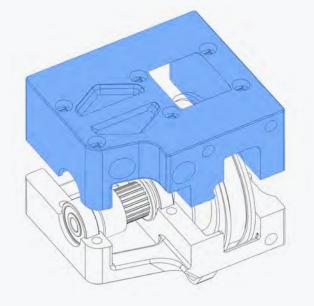


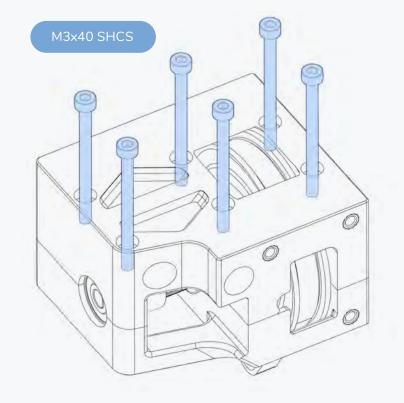
CHECK SHAFT POSITION

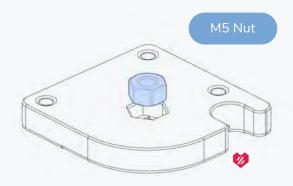
Compare your assembled parts to the graphics shown here.



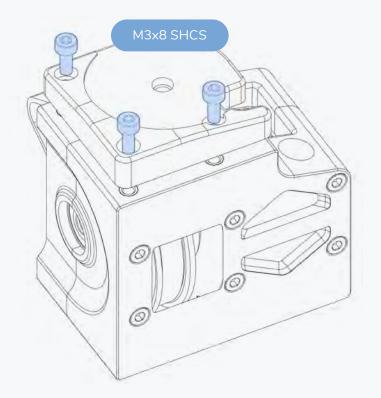


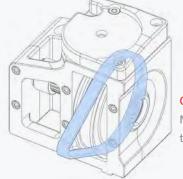






WHERE'S THAT PRINTED PART? Look for Voron heart next to the part. It indicates that this is an accent part.

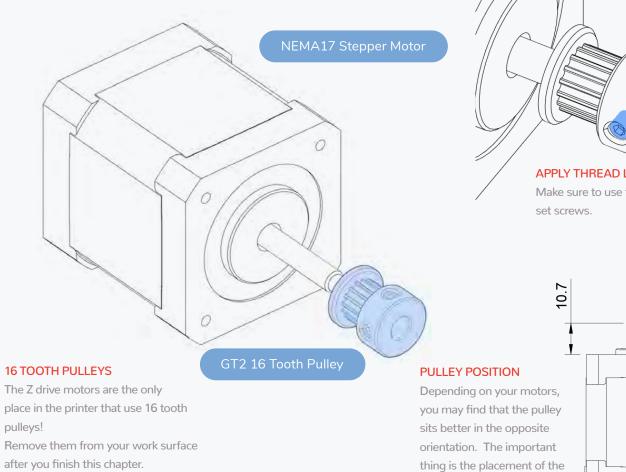




CHECK FOR BELT

Make sure the closed belt loop is in

the part.

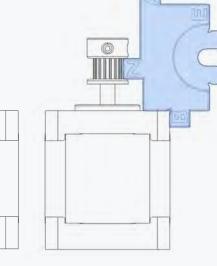


actual teeth.



APPLY THREAD LOCKER

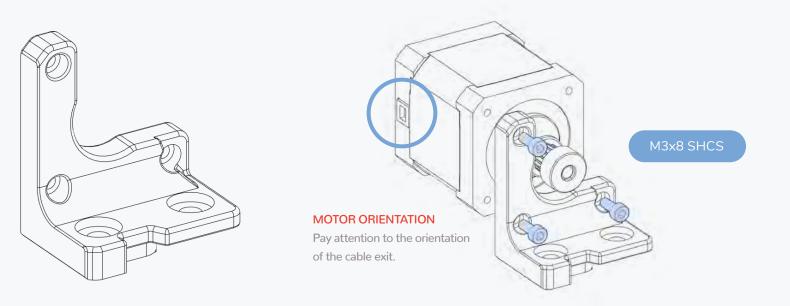
Make sure to use thread locker on the

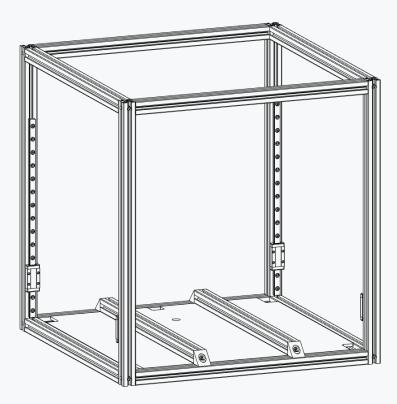


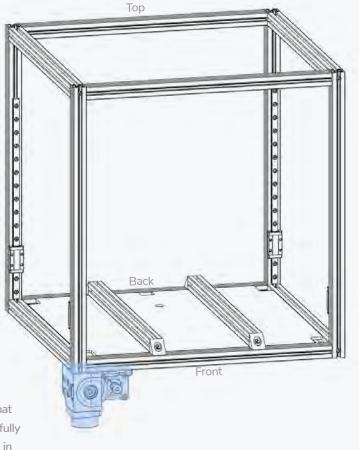
16 TOOTH PULLEYS

place in the printer that use 16 tooth pulleys!

Remove them from your work surface after you finish this chapter.



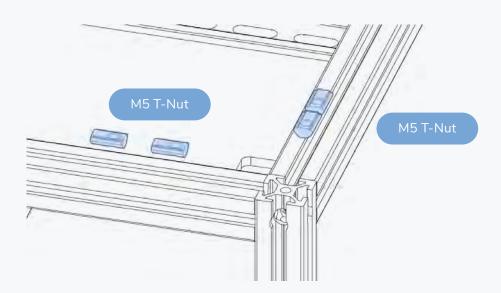




PICTURE FOR ORIENTATION

The Z0 drive is the first Z drive that will be added to the printer. The fully assembled Z Drive is highlighted in blue.

Z DRIVE

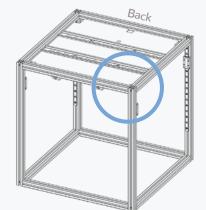


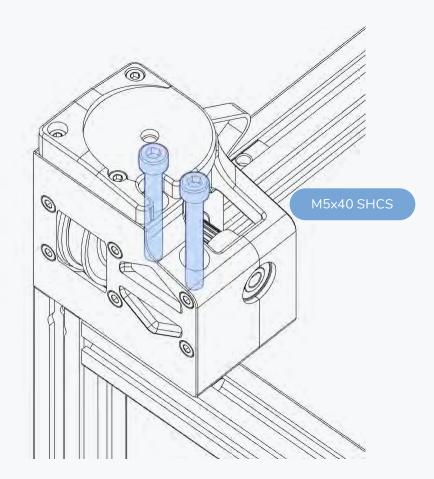
WHICH CORNER IS THIS?

We highlighted the corner with a circle.

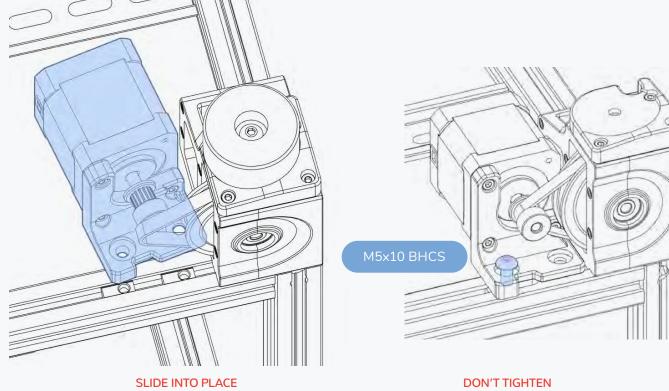
UPSIDE DOWN ASSEMBLY

For ease of assembly we recommend flipping the printer on its head for the next steps.



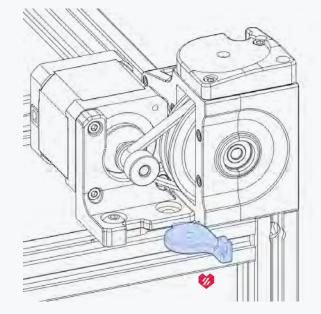


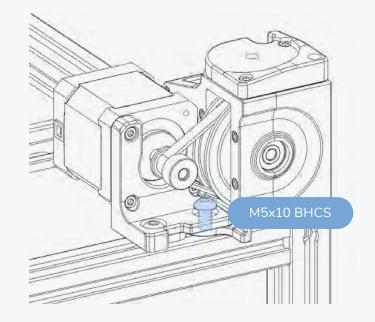
Z DRIVE



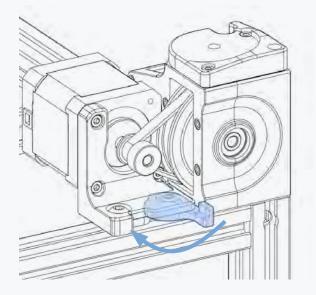
Insert at an angle and slide into place.

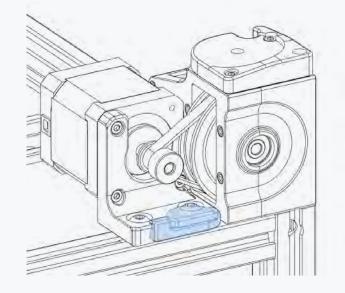
Leave the bolt loose for the next step.



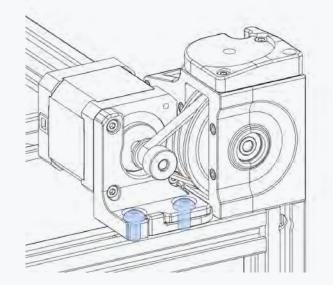


DON'T TIGHTEN Leave the bolt loose for the next step.

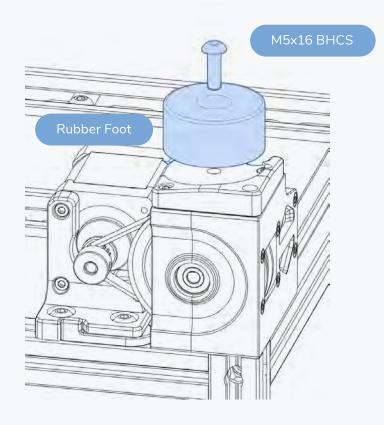


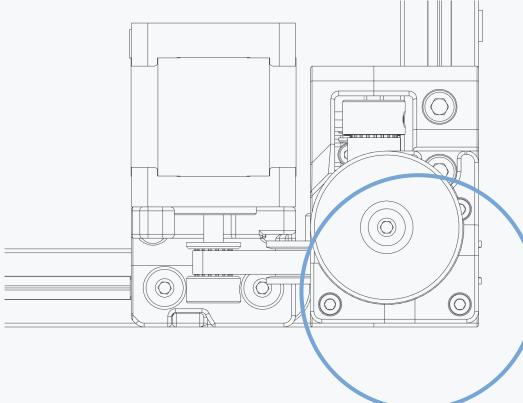


CLOSE THE BELT TENSIONER Flip the belt tensioner latch closed.



TIGHTEN BOLTS After closing the tensioner the M5 bolts can be properly fastened.



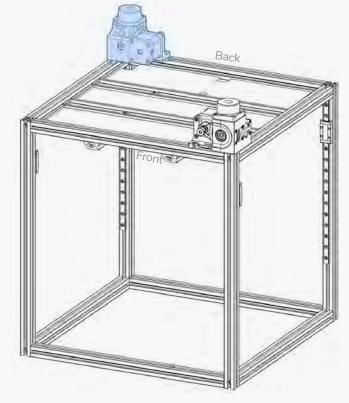


CHECK POSITION

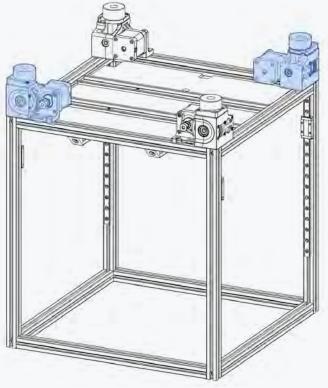
Ensure that closing the belt tensioner did not cause the Z Drive to move/shift. If it did undo the bolts and realign.

OTHER Z DRIVES

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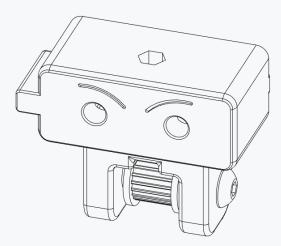


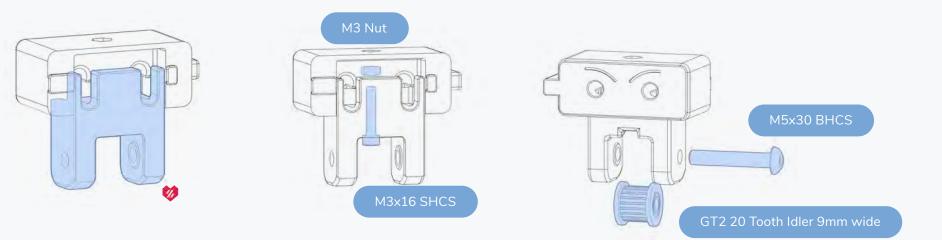
REPEAT INSTRUCTIONS FOR OPPOSING CORNER Build another Z drives, following the same instructions.

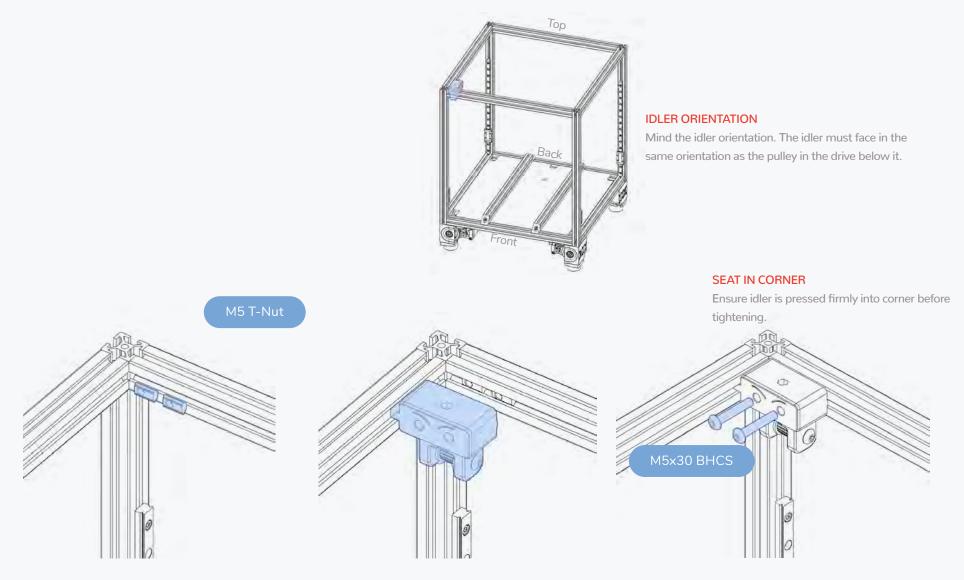


REPEAT INSTRUCTIONS FOR THE MIRRORED DRIVES Build two more Z drive following the instructions that came before. The printed parts are mirrored.

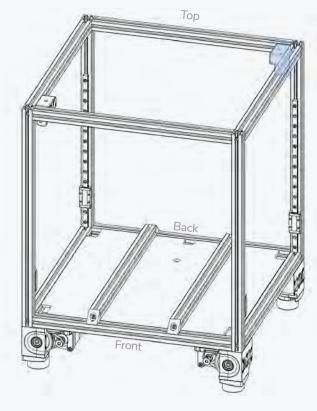
Z IDLER



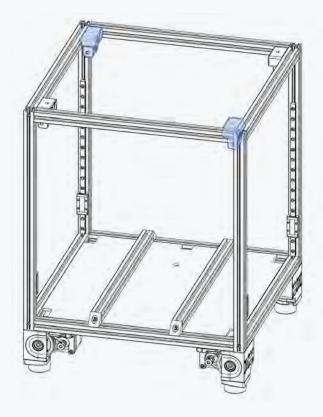




Z IDLER



REPEAT INSTRUCTIONS FOR OPPOSING CORNER Build another Z idler following the same instructions.



REPEAT INSTRUCTIONS FOR THE MIRRORED DRIVES Build two more Z idlers following the instructions that came before. The printed parts are mirrored.