

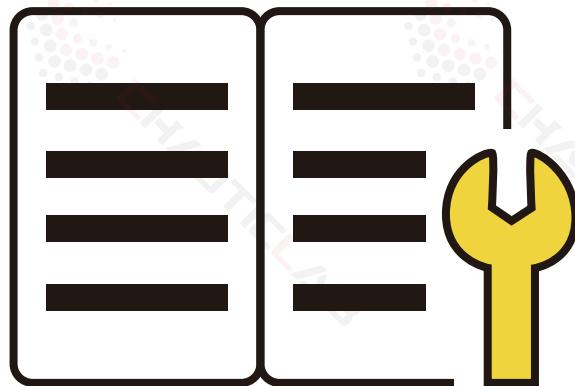


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VORON 2.4 CNC Z DRIVE KIT BUILD GUIDE

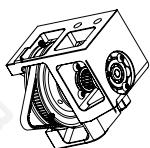
VERSION 2024-03-25



- Parts highlighted in blue are included in this CNC Z Drive Kit.
- Parts highlighted in red are NOT included and will need to be prepared separately.

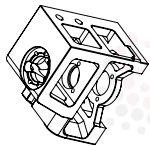
PACKAGING LIST

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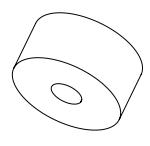
Z DRIVE

2pcs



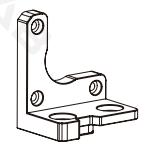
Z DRIVE (MIRROR)

2pcs



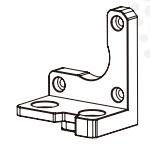
RUBBER FOOT

4pcs



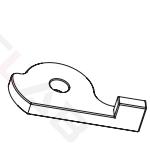
Z MOTOR MOUNT

2pcs



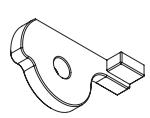
Z MOTOR MOUNT (MIRROR)

2pcs



BELT TENSIONER

2pcs



BELT TENSIONER (MIRROR)

2pcs



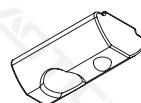
BEARING DECORATIVE COVER

4pcs



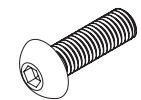
F625 BEARING

8pcs



M5 T-nut

16pcs

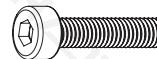


BUTTON HEAD CAP SCREWS (BHCS)

M5x14 4pcs

M5x10 8pcs

M3x5 24pcs



SOCKET HEAD CAP SCREW (SHCS)

M5x14 8pcs

M3x8 12pcs



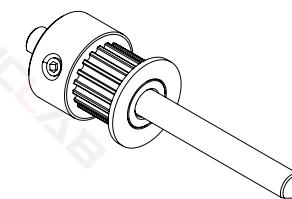
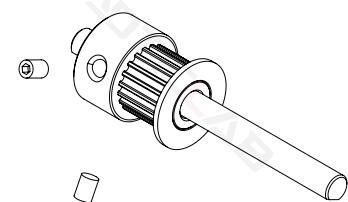
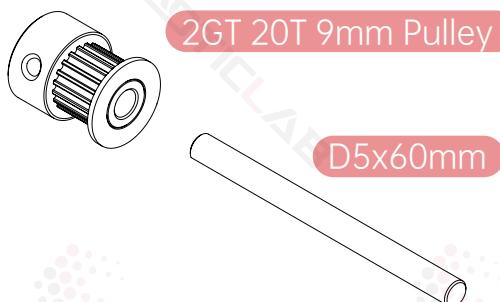
FLAT HEAD COUNTERSUNK SCREW (FHCS)

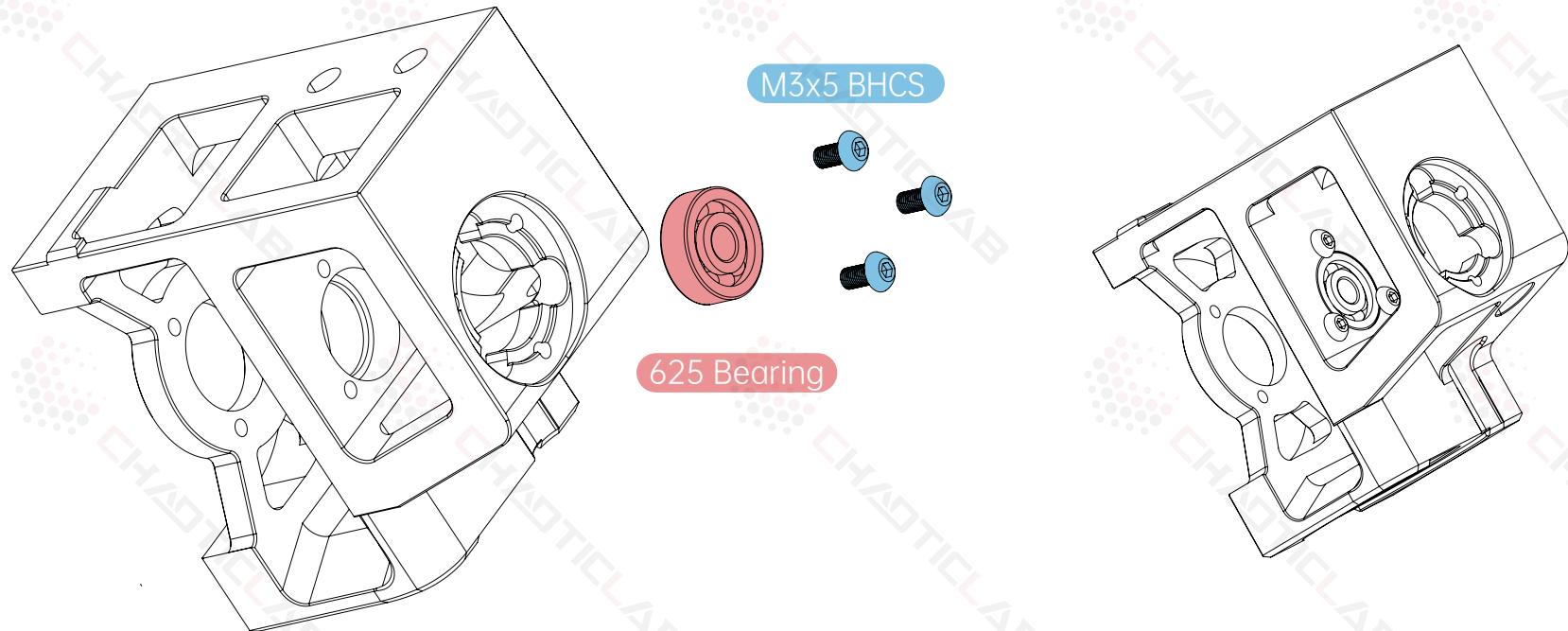
M3x5 12pcs



M5x10x1 WASHER

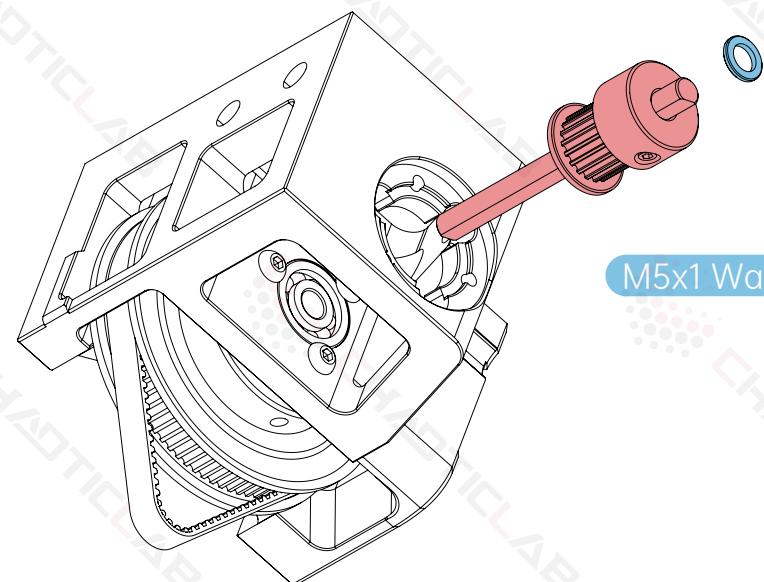
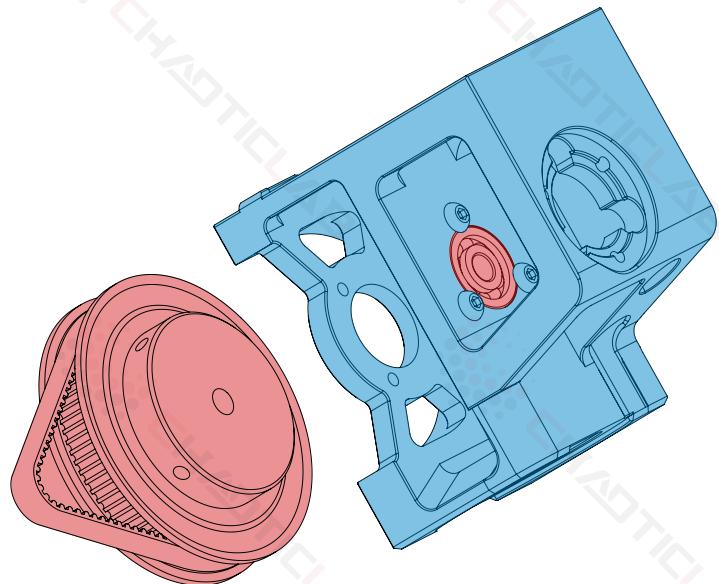
8pcs

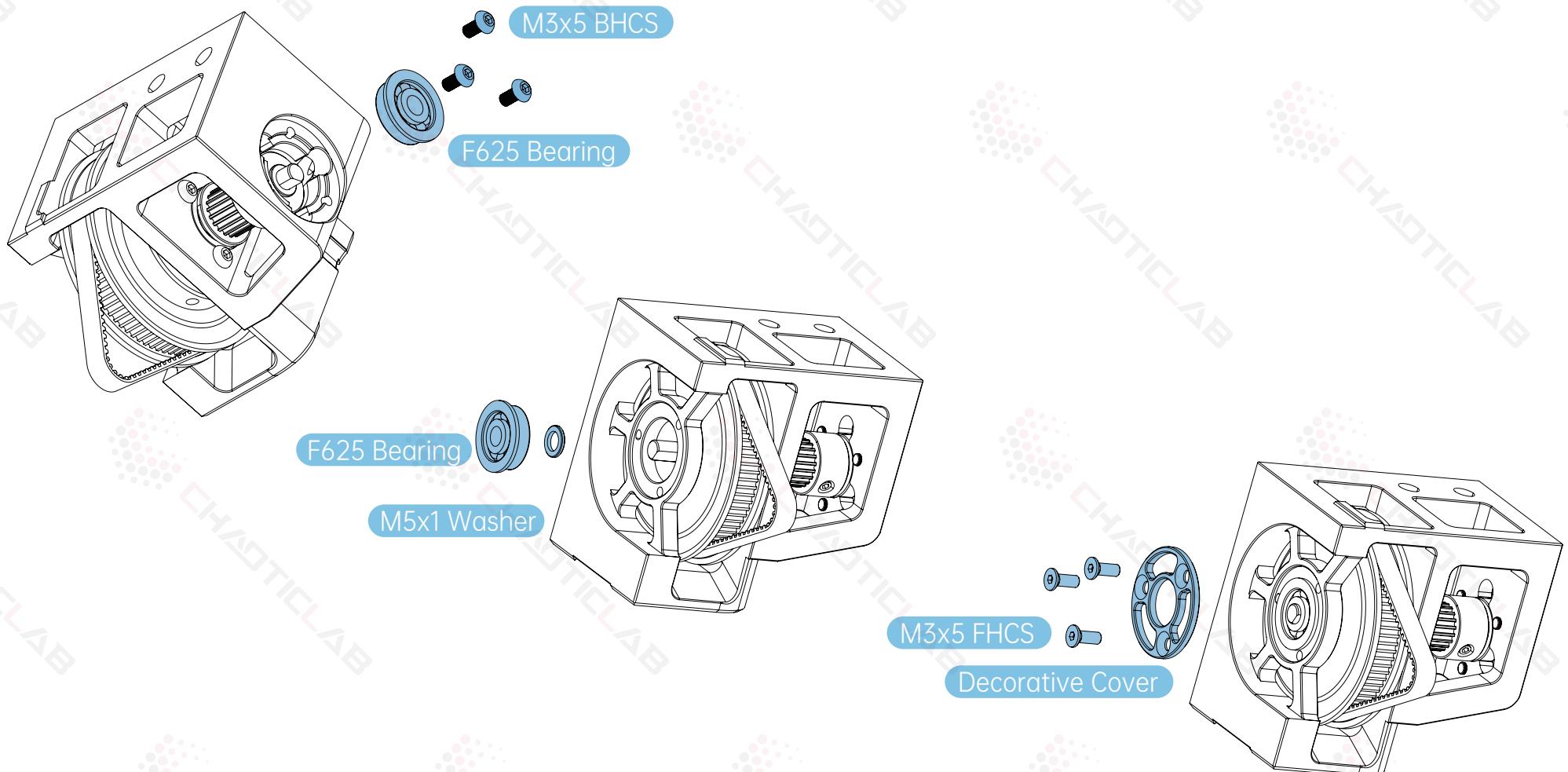


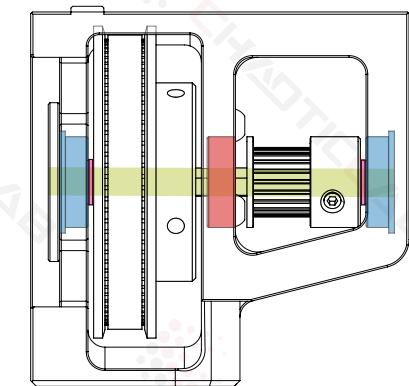
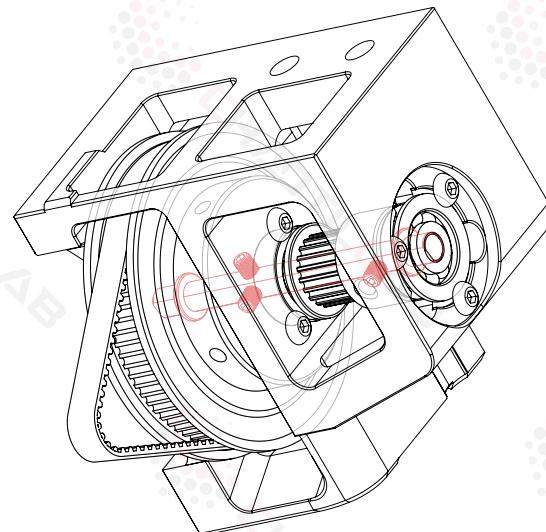
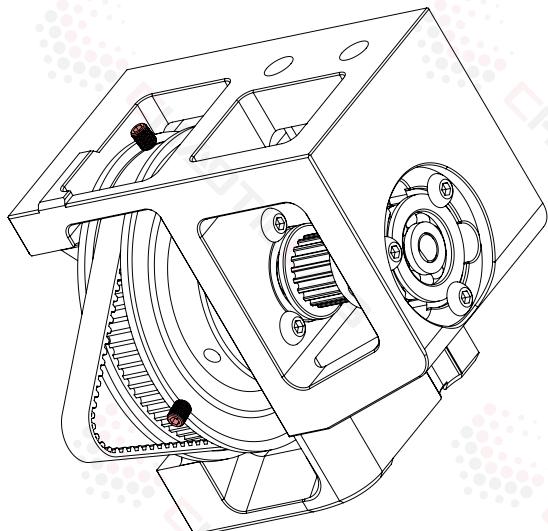


Z DRIVE

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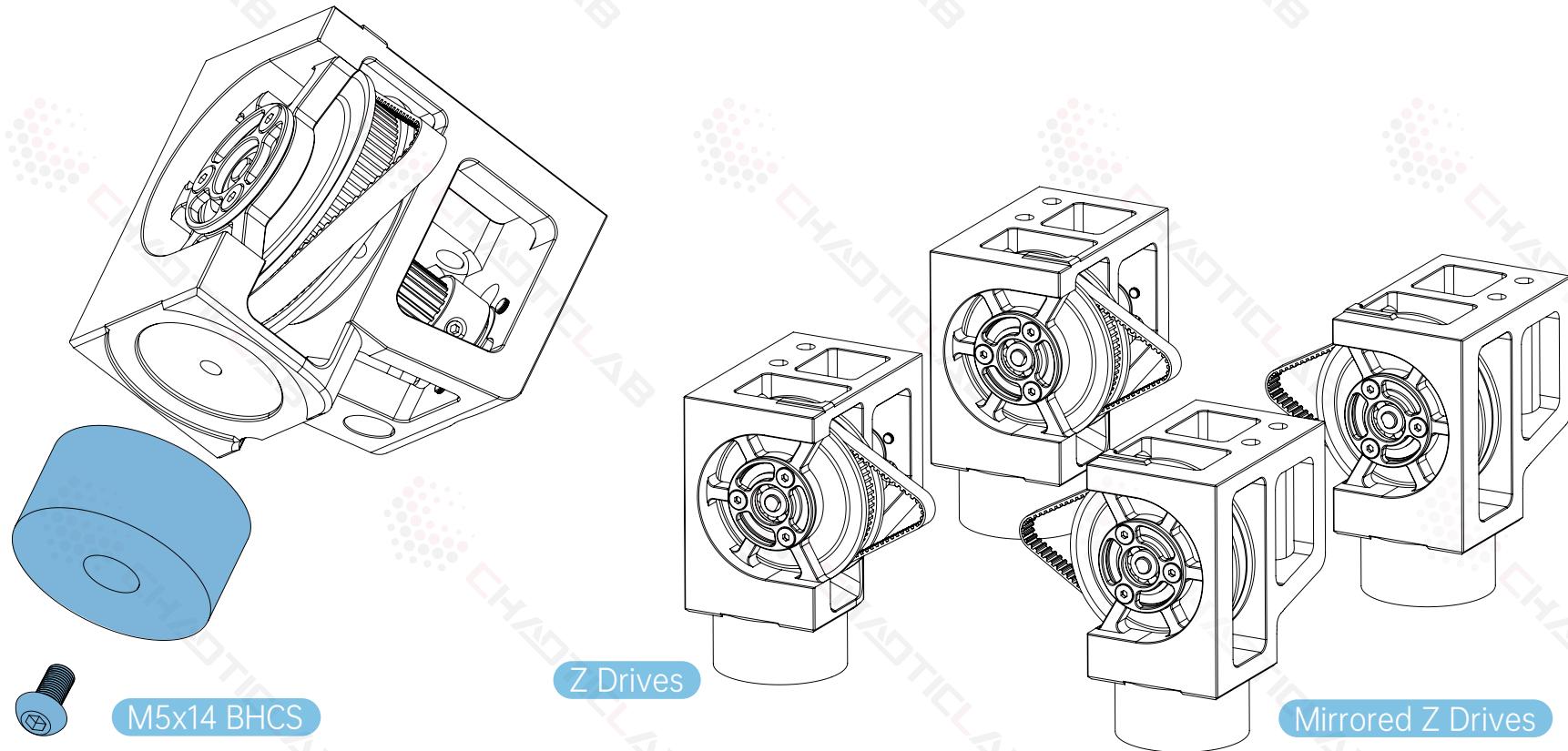






When using the set screws to secure the two pulleys, check that each pulley is pushed towards the F625 bearings at their respective ends. This ensures that each pulley is positioned correctly, and that one set screw of each pulley is properly secured against the flat surface of the shaft.

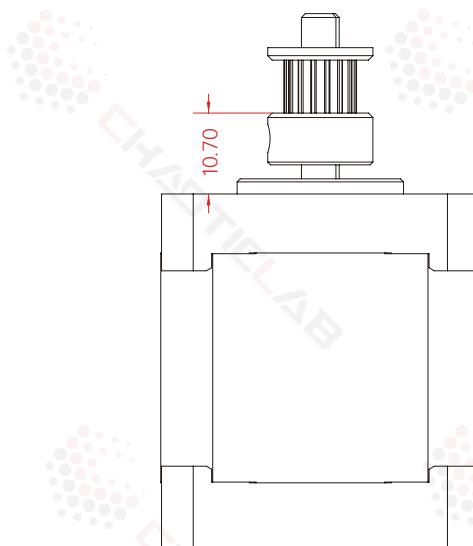
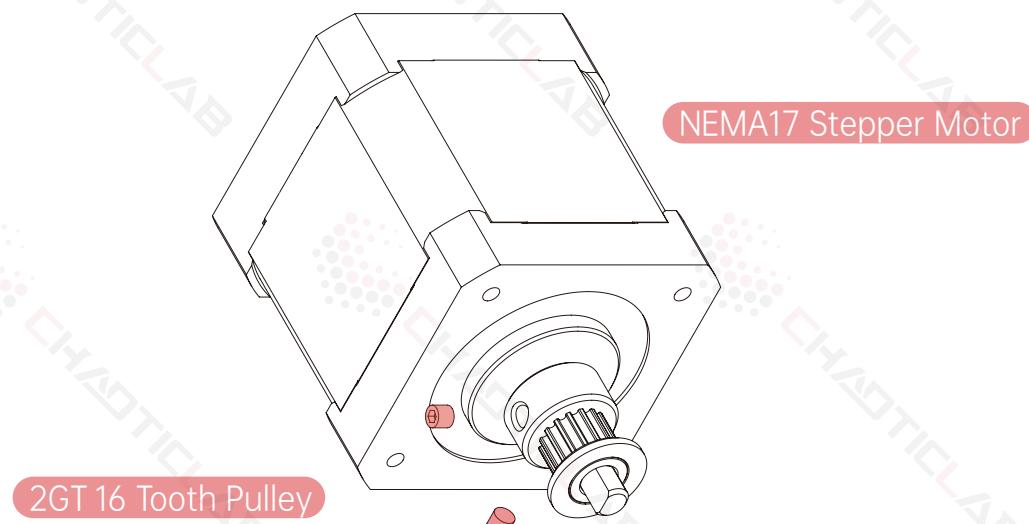
D5x60 Shaft
F625 Bearing
625 Bearing
M5x1 Washer



REPEAT INSTALLATION PROCESS

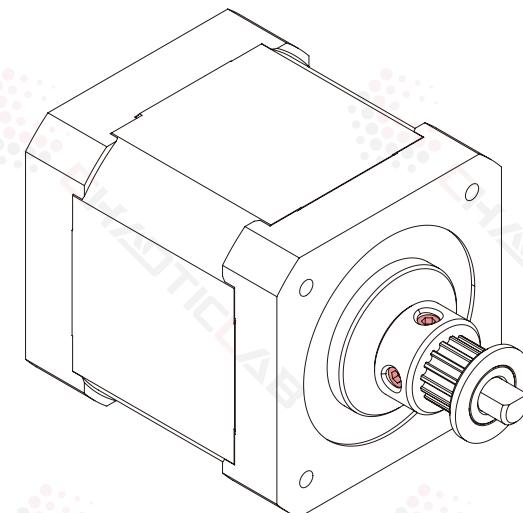
After assembling the first Z drive successfully, follow the same guide to assemble the remaining three Z drives.

Please note that one of the remaining three Z drives should be identical to the first Z drive, while the other two should be symmetrical to the first one.



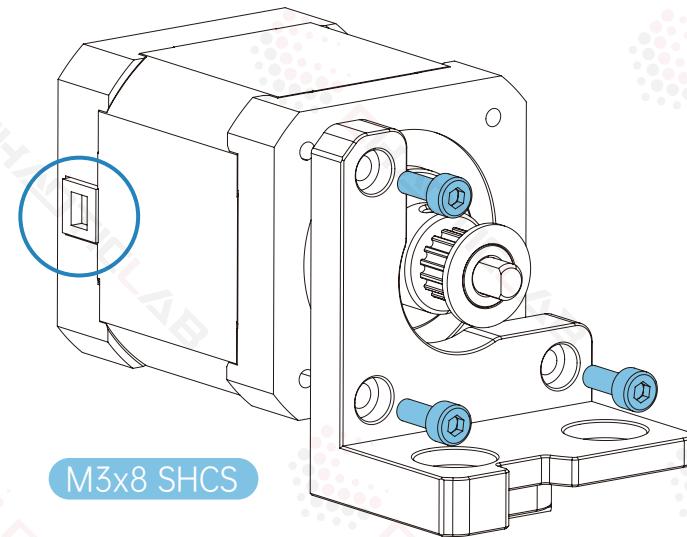
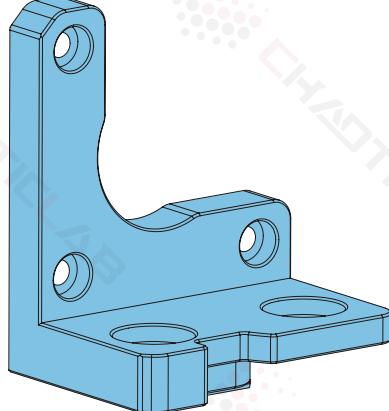
16 TOOTH PULLEYS

The Z drive motors are the only parts of the printer that make use of 16 tooth pulleys. Remove pulleys from work surface after this chapter is complete.



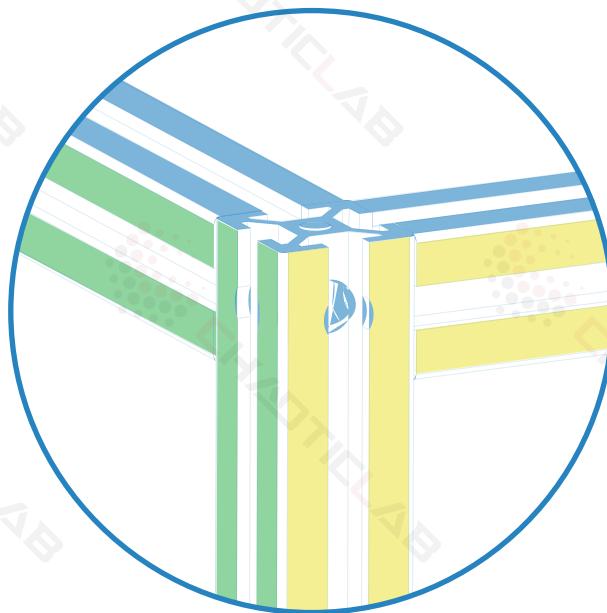
APPLY THREAD LOCKER

Be sure to use thread locker on the set screws.



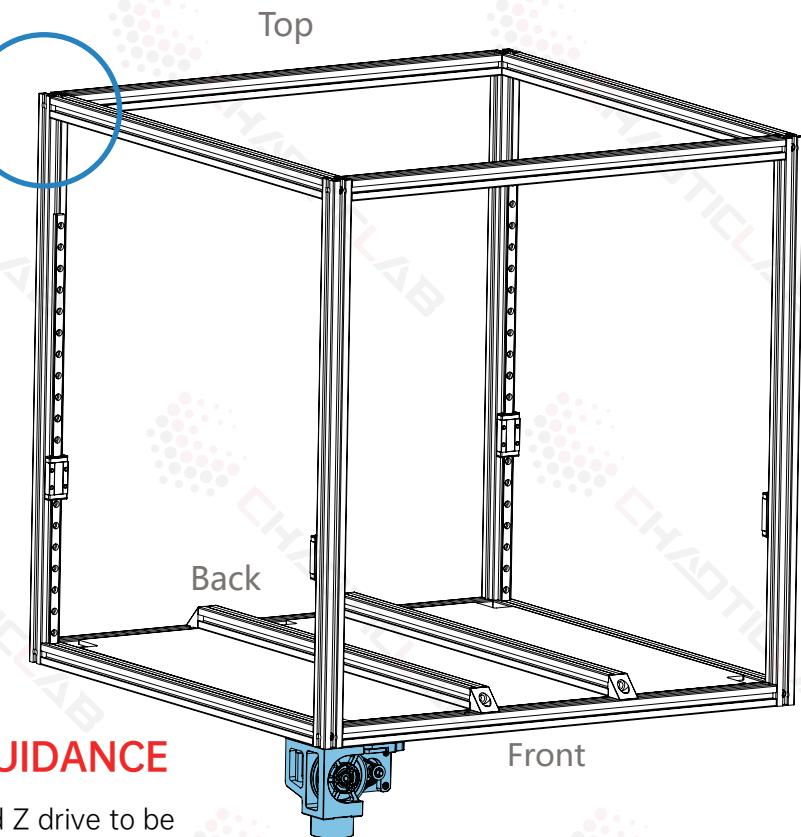
MOTOR ORIENTATION

Pay attention to the orientation of the cable exit.



ASSESS

Before moving forward, verify that the frame is assembled correctly and that all the screws are tightened. Assess each of the eight corners - all corners depicted by the same color in the diagram should lie flat on the same plane when properly installed.

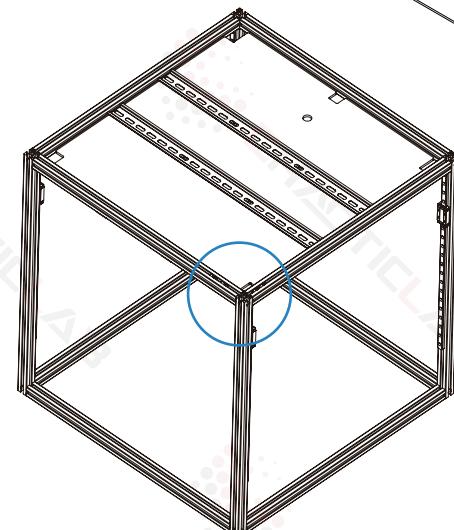
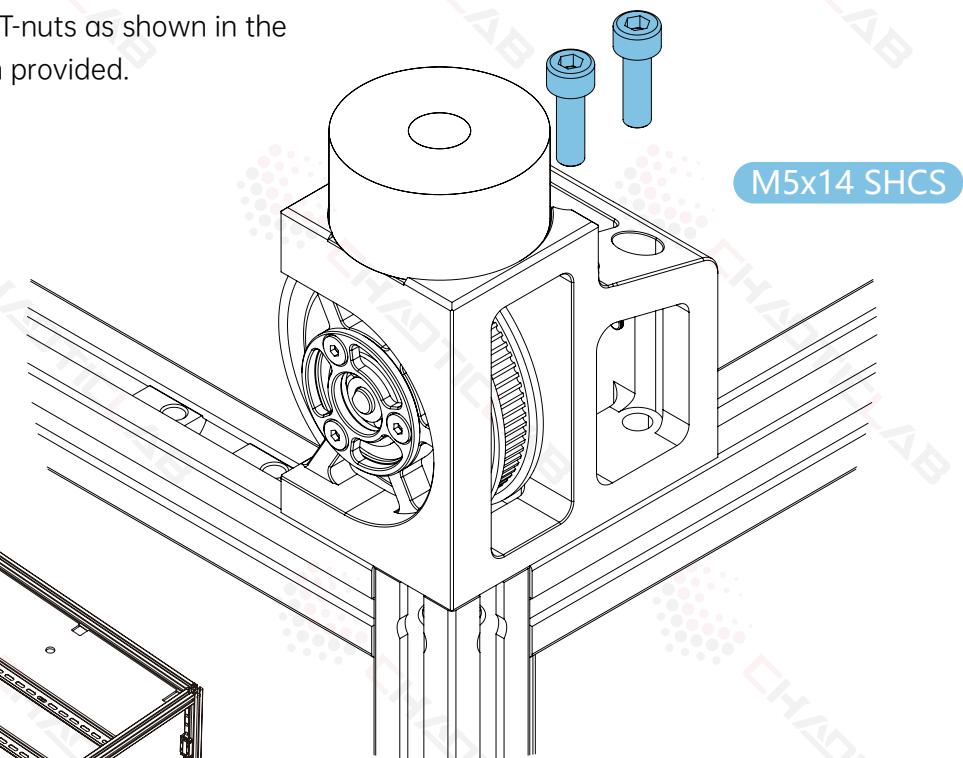
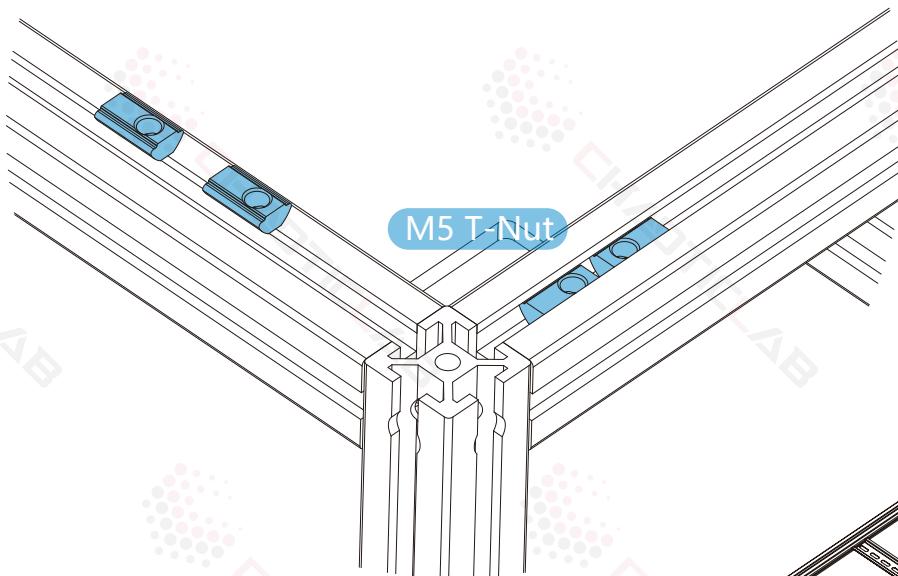


PICTURE FOR GUIDANCE

The first fully assembled Z drive to be installed onto the printer is shown in the diagram as highlighted in blue.

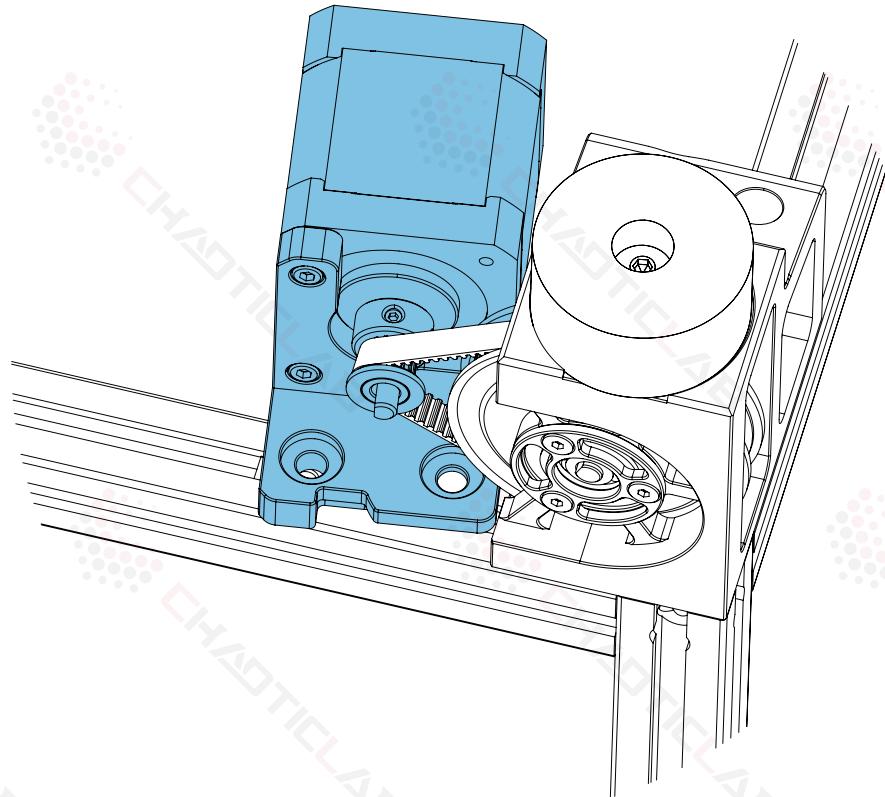
T-NUT PLACEMENT

Insert the T-nuts as shown in the illustration provided.



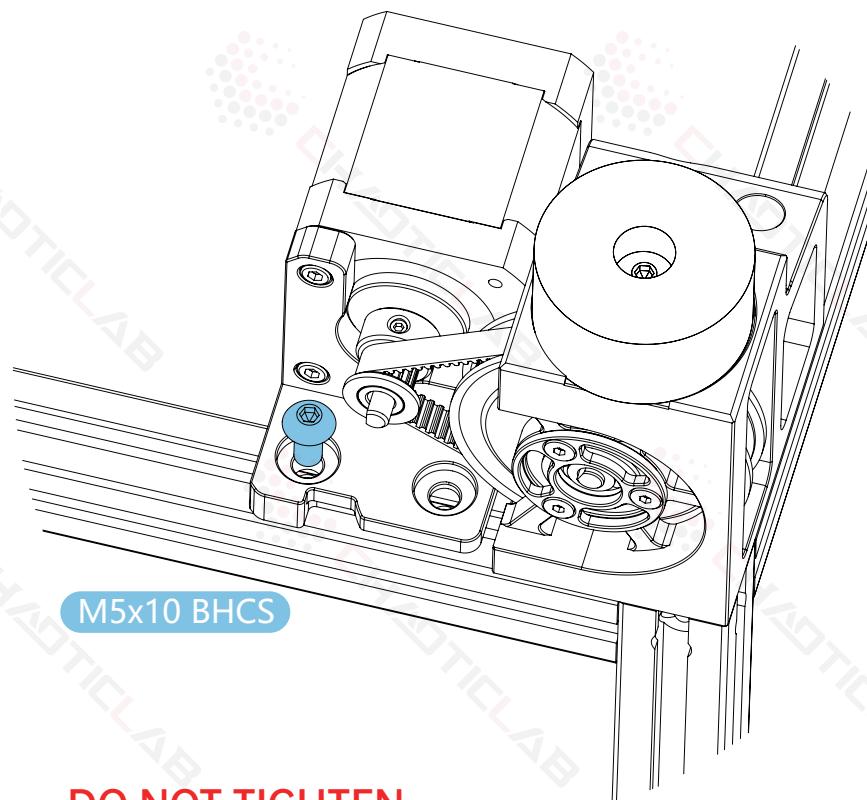
UPSIDE DOWN ASSEMBLY

For easy assembly, we recommend flipping the printer onto its head for this step.



SLIDE TO FIT

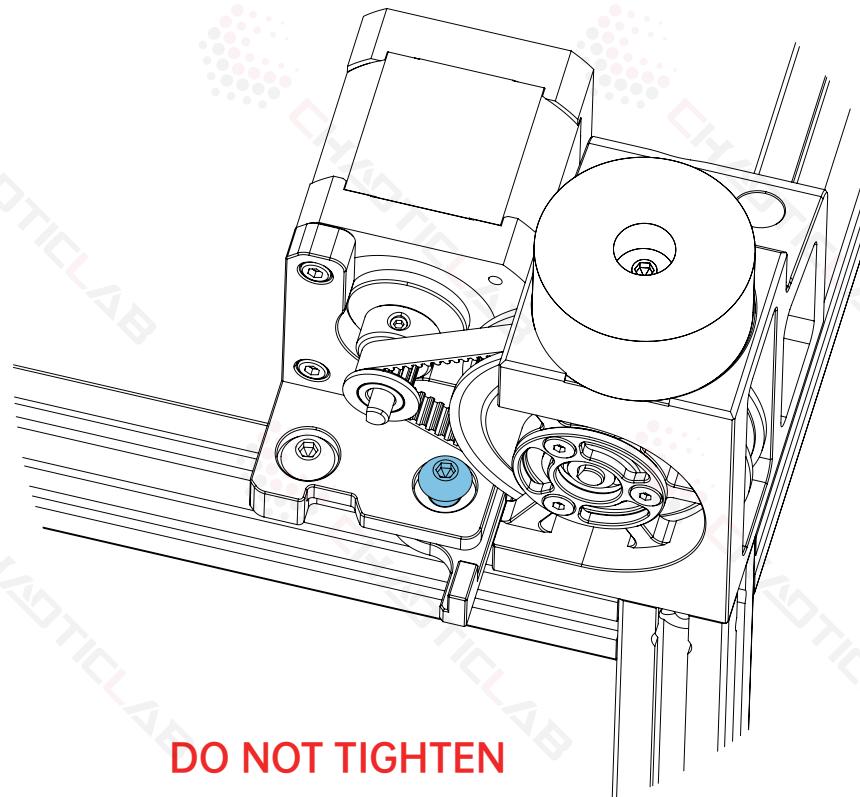
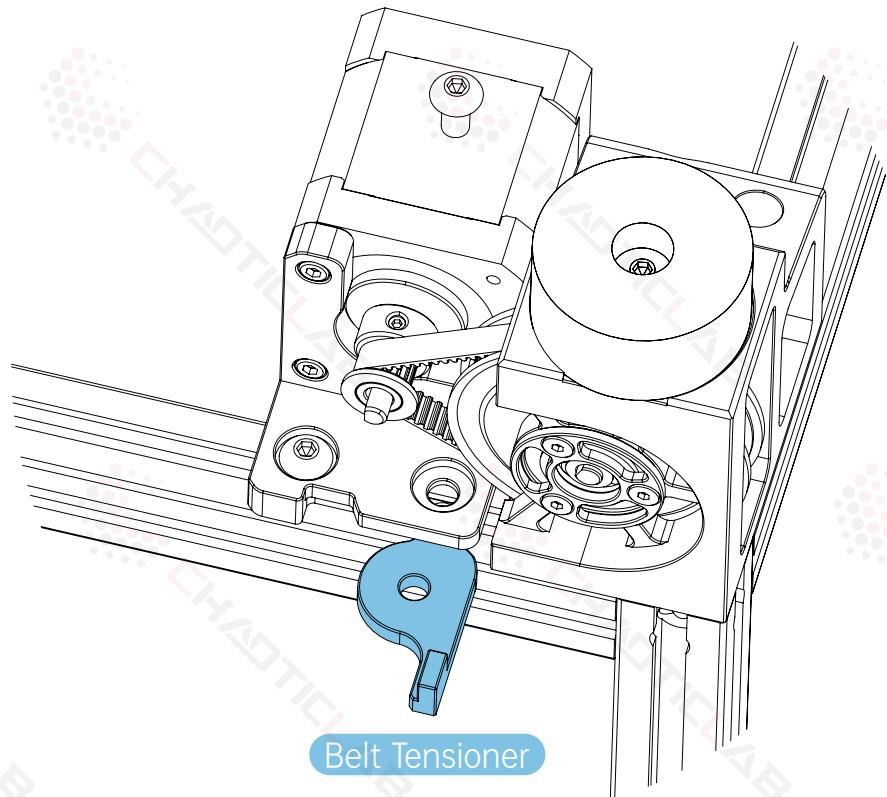
Insert at an angle and carefully slide into place.

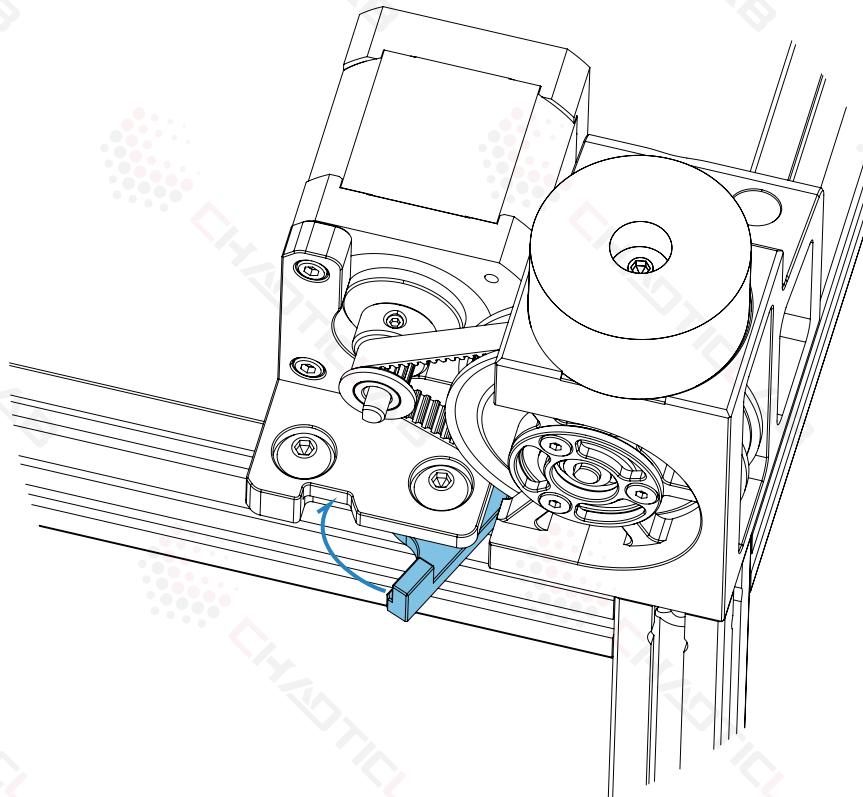


M5x10 BHCS

DO NOT TIGHTEN

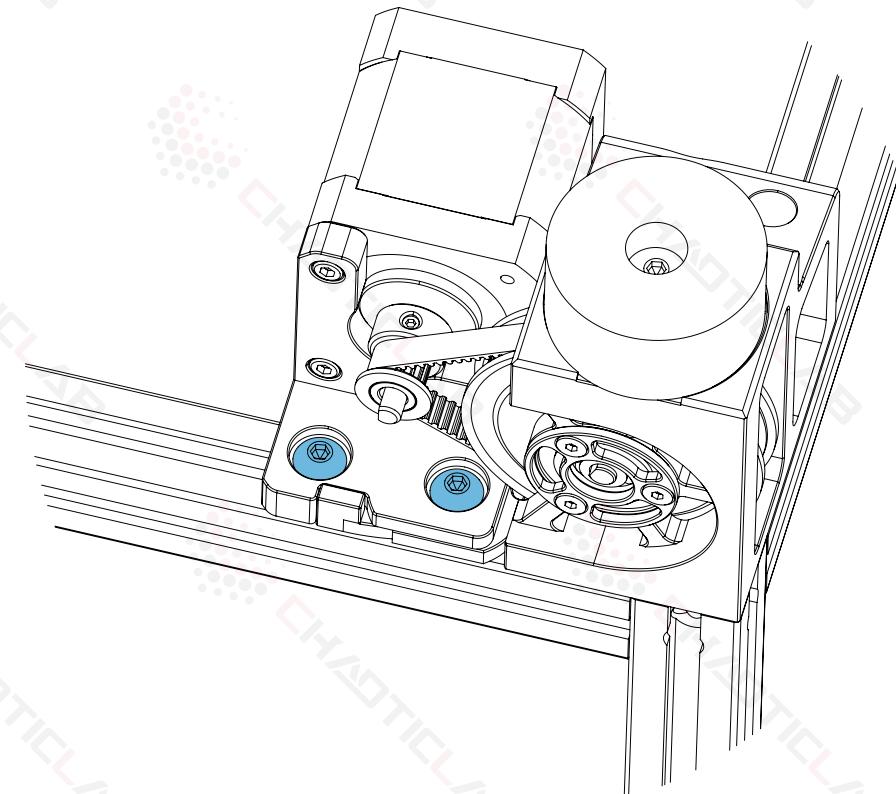
Leave the bolt to remain loose for the next step.





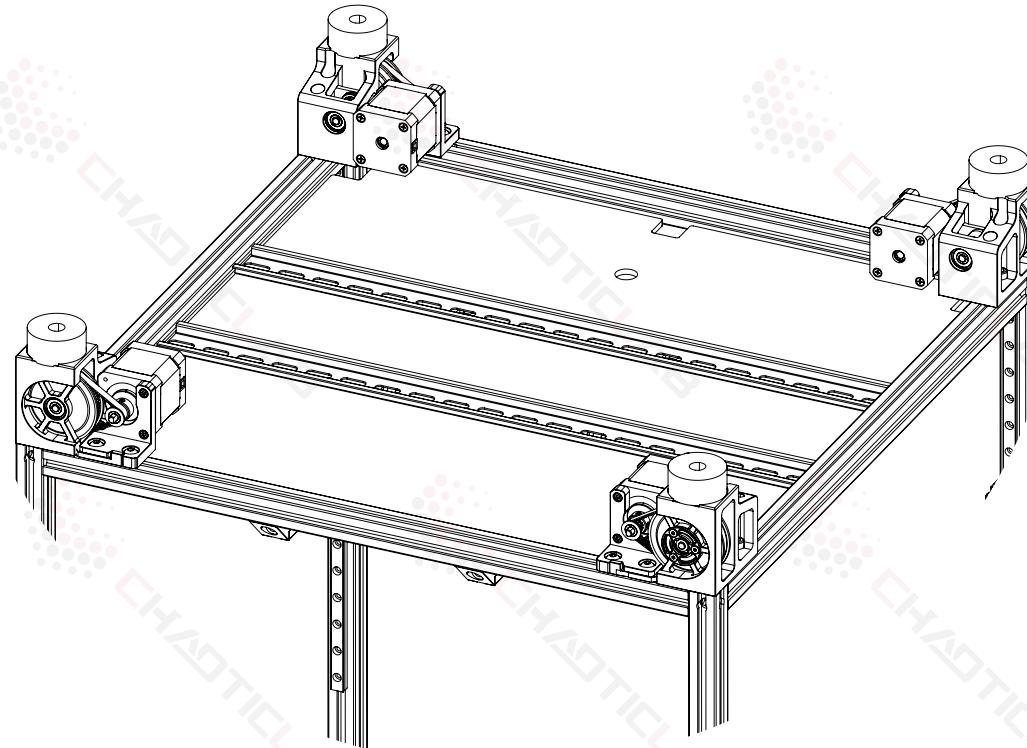
CLOSE BELT TENSIONER

Carefully flip the belt tensioner latch to close it.



TIGHTEN BOLTS

After the belt tensioner has been closed, the M5 bolts can then be properly fastened into place.



REPEAT INSTALLATION PROCESS

After successfully assembling the first Z drive onto the frame, install the remaining three Z drives using the same method. One of the remaining three Z drives should be identical to the first Z drive, while the other two should be symmetrical to the first one.



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