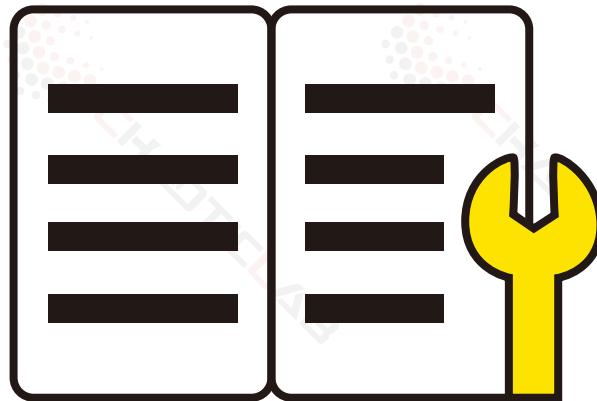




VORON 2.4 CNC Z JOINT KIT BUILD GUIDE

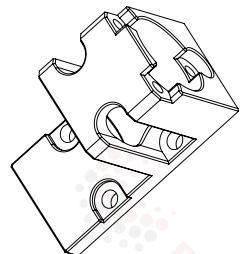
VERSION 2024-03-04



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

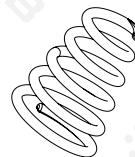
PACKING LIST

WWW.CHAOTICLAB.XYZ



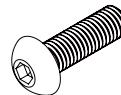
Z JOINT LOWER

4 pcs



CONICAL SPRING

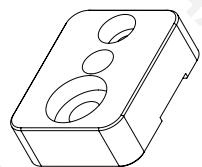
4 pcs



BUTTON HEAD CAP SCREW (BHCS)

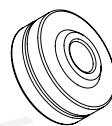
M5x14
M3x6

12 pcs
12 pcs



Z JOINT UPPER

4 pcs



PB5 BEARING

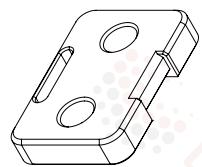
4 pcs



SOCKET HEAD CAP SCREW (SHCS)

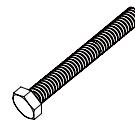
M3x14
M3x6

4 pcs
16 pcs



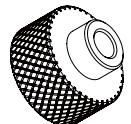
Z BELT CLAMP

4 pcs



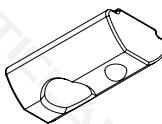
HEX BOLT

M5x40mm 4 pcs



M5 THUMB NUT

4 pcs



DROP-IN T-NUT (2020)*

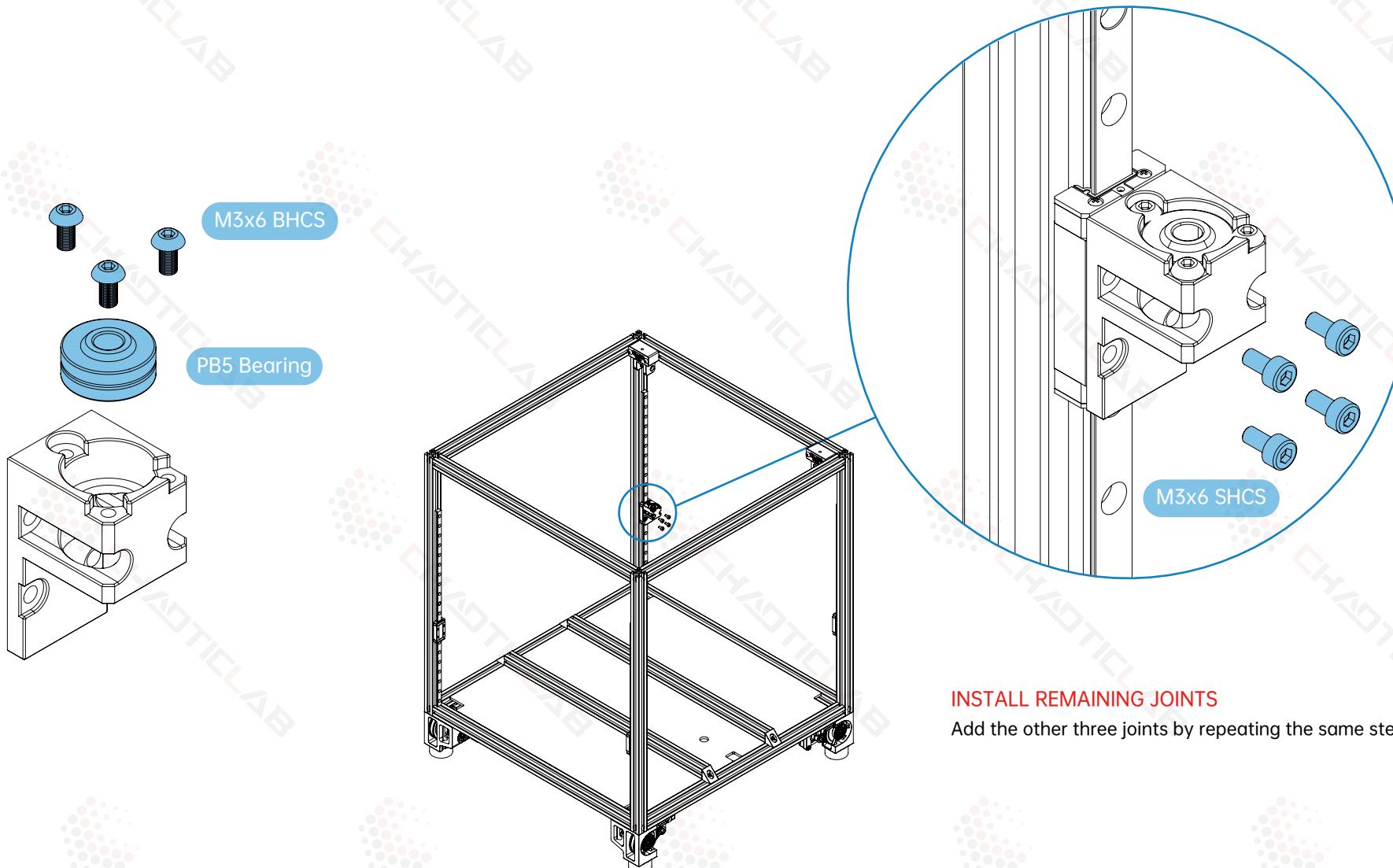
M3 4 pcs
M5 12 pcs



SPACER

5x8x4.5mm 4 pcs

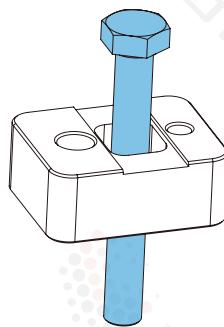
*The 16pcs T-nuts must already be placed inside the gantry extrusion during the assembly of the A/B DRIVE. As a result, this guide does not specifically address them. For further information, please refer to the CNC A/B DRIVE KIT user manual included in the CHAOTICLAB VORON 2.4 CNC PART KIT V2.0 or official VORON manuals for details.

**INSTALL REMAINING JOINTS**

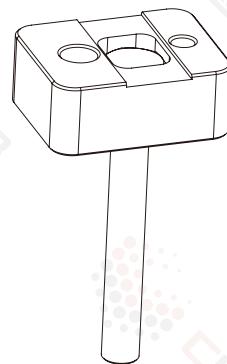
Add the other three joints by repeating the same steps.

FLIP GANTRY

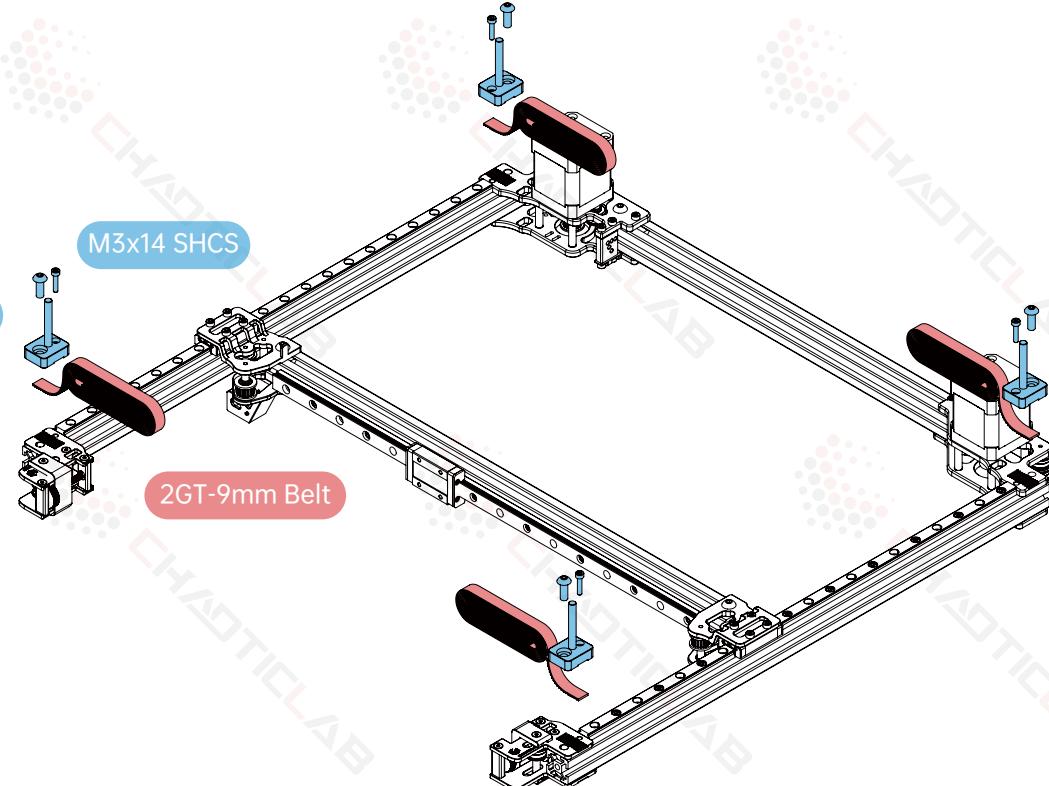
Turn the gantry around for this step.



Hex Bolt M5x40



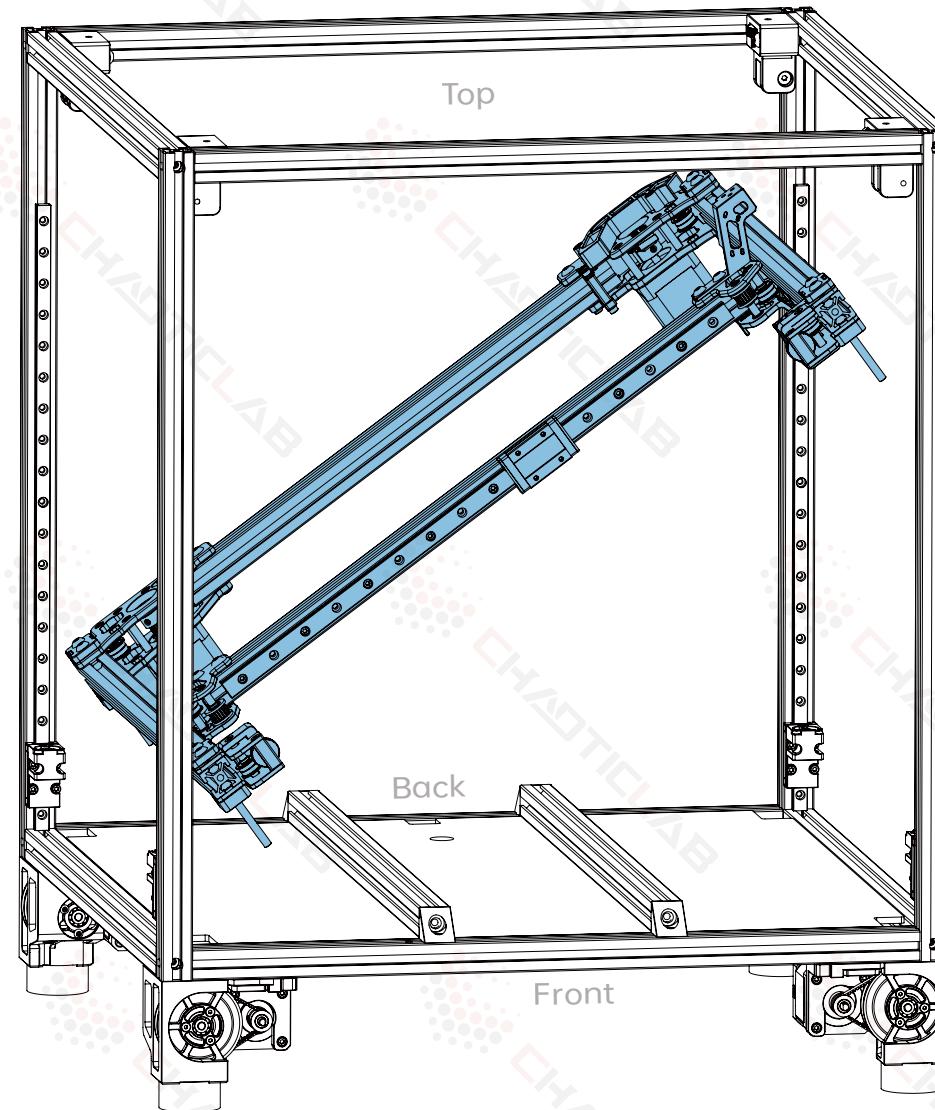
M5x14 BHCS

**BELT ORIENTATION**

Refer to the images, paying attention to the direction of the belt teeth.

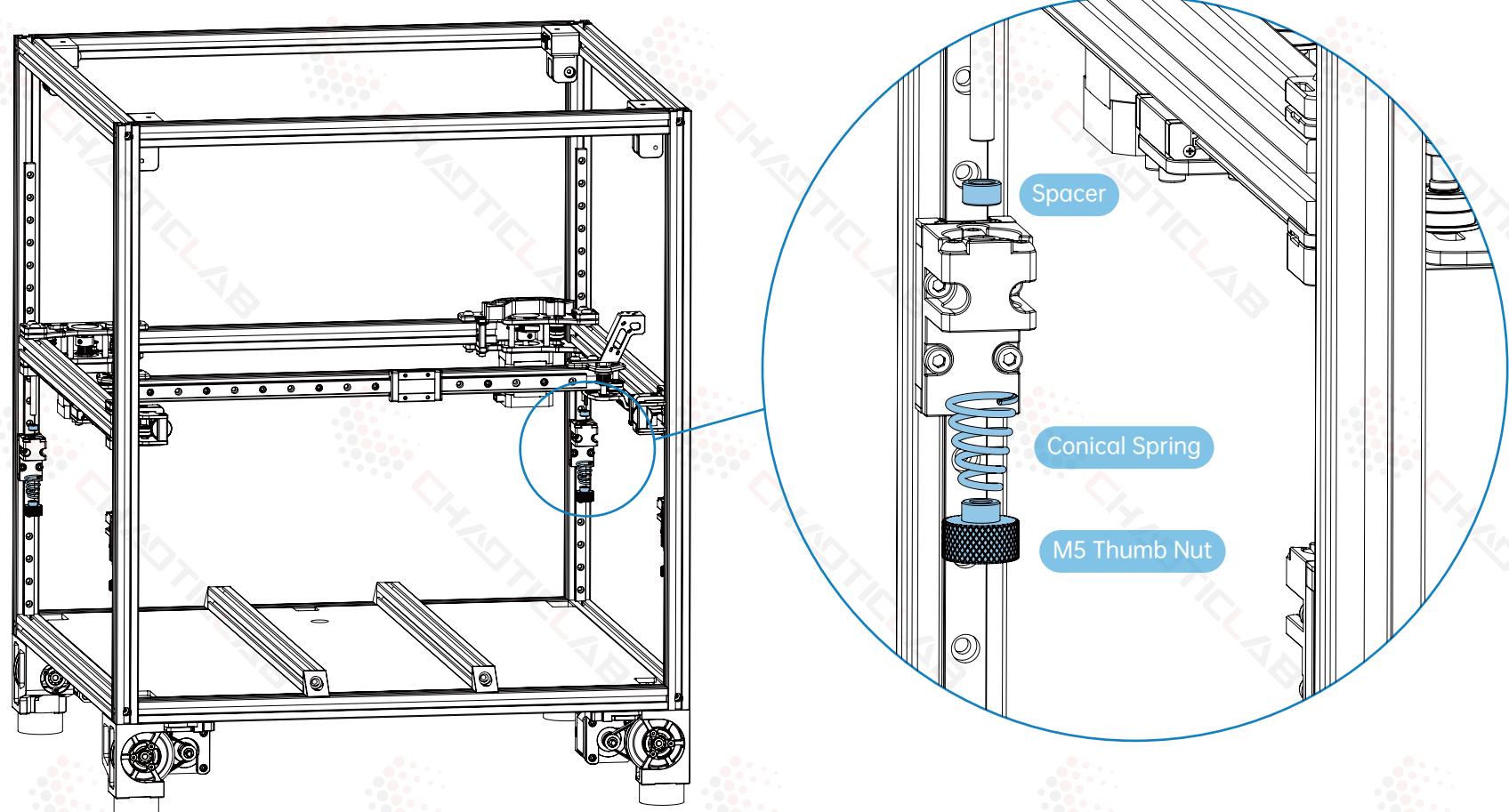
INSERT AT AN ANGLE

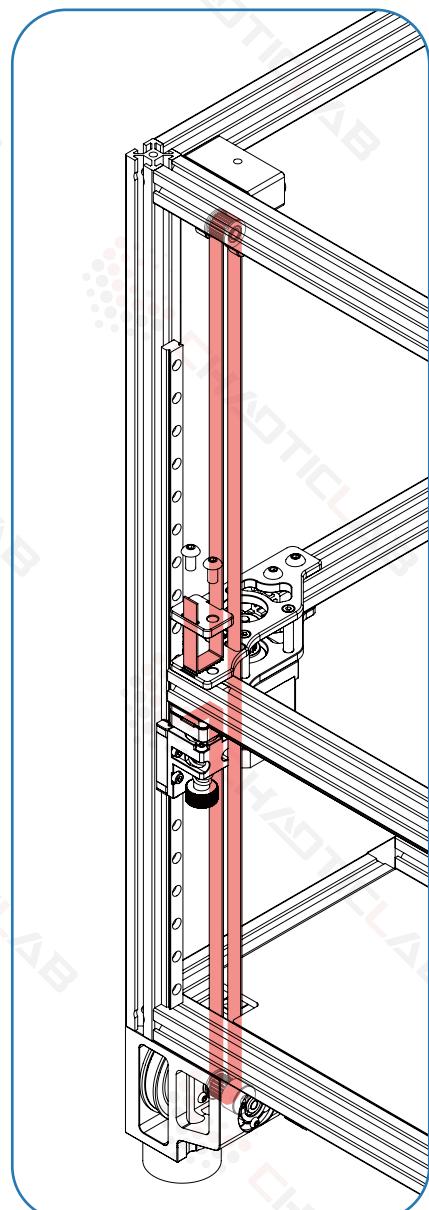
Tilt the gantry at angle to move it past the vertical structure.



TIGHTEN THE FOUR THUMB NUTS

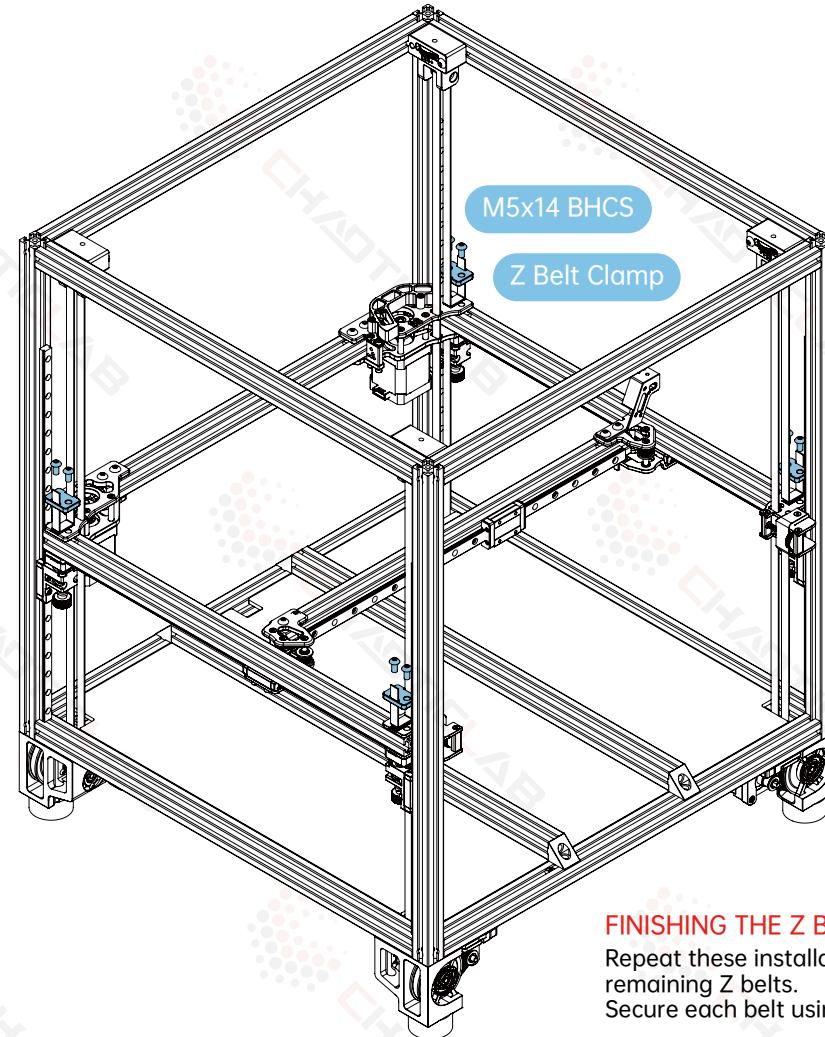
To secure the gantry to the Z joints as shown in the diagram.



**Z BELT ROUTING**

Follow the path as shown in the diagram.
You can use needle-nose pliers, tweezers, or similar tools to help you with this step.

The belt teeth are on the inside of the loop.

**FINISHING THE Z BELT INSTALLATION**

Repeat these installation instructions when installing the three remaining Z belts.
Secure each belt using the belt clamps and screws.



CHAOTICLAB



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