



CHAOTICLAB



## VORON 2.4 CNC XY JOINT KIT BUILD GUIDE

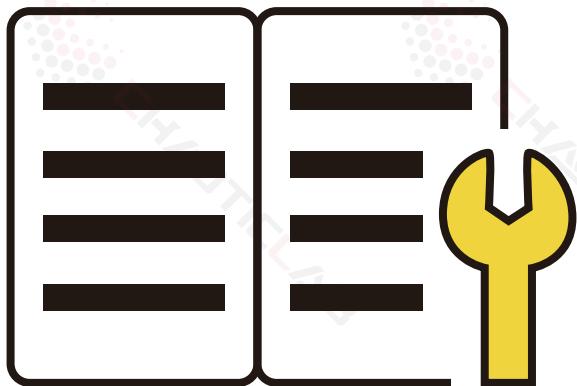
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VERSION 2024-03-25

## READ BEFORE ASSEMBLY

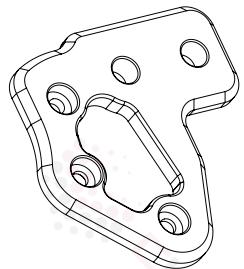
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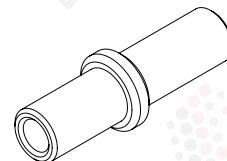
- Parts highlighted in blue are included in this CNC XY Joint Kit.
- Parts highlighted in red are NOT included and will need to be prepared separately.

## PACKAGING LIST

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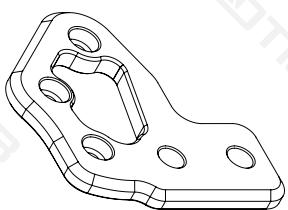
**XY JOINT UPPER LEFT**  
1pc



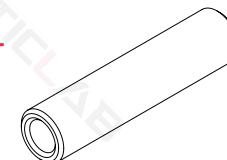
**BEARING STANOFF**  
4pcs



**BUTTON HEAD CAP SCREW(BHCS)**  
M5x10  
6pcs



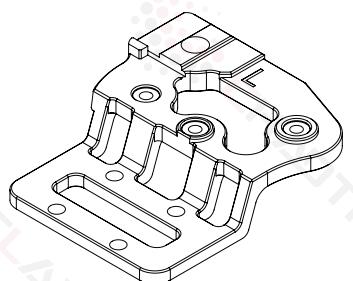
**XY JOINT UPPER RIGHT**  
1pc



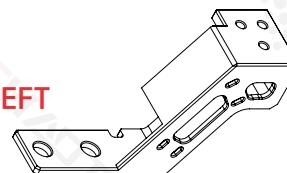
**SUPPORT COLUMN**  
2pcs



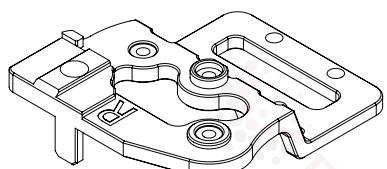
**SOCKET HEAD CAP SCREW(SHCS)**  
M3x25  
6pcs



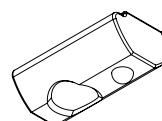
**XY JOINT LOWER LEFT**  
1pc



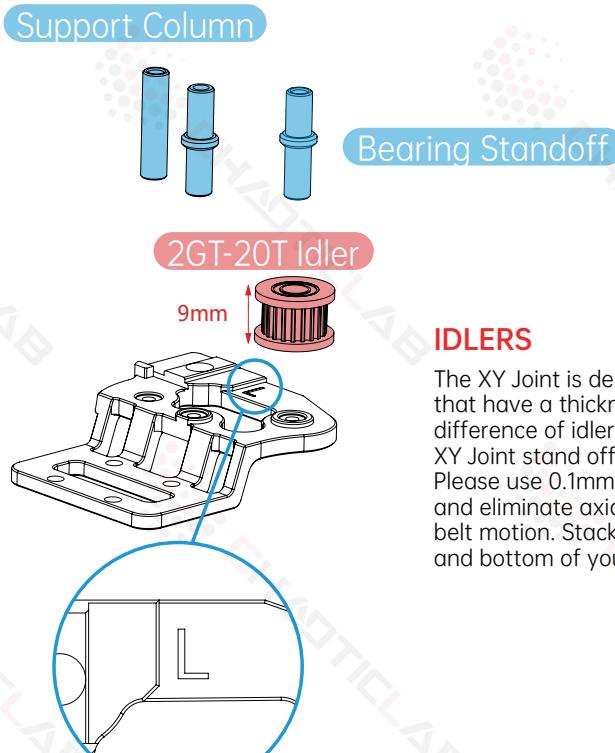
**CABLE DRAG CHAIN BRIDGE**  
1pc



**XY JOINT LOWER RIGHT**  
1pc



**DROP-IN T-NUT, M5 (2020)**  
6pcs

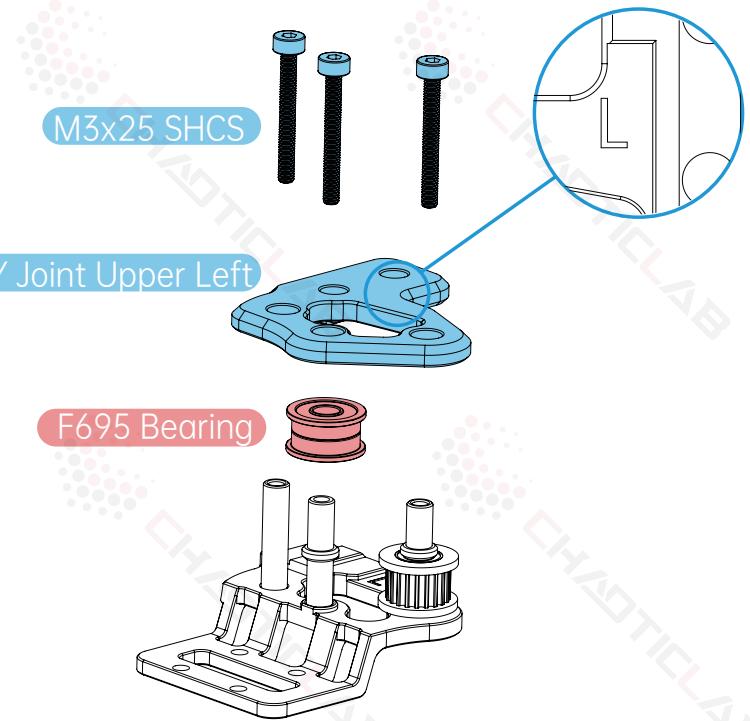


### XY JOINT LOWER LEFT

Marked with "L" or "R" to help you distinguish between the left and right parts.

### IDLERS

The XY Joint is designed to be compatible with idlers that have a thickness of 9mm or less. Due to tolerance difference of idlers from different manufacturers, the XY Joint stand off has been designed with extra tolerance. Please use 0.1mm precision shims to adjust the idler height and eliminate axial movement of the Idler to ensure smooth belt motion. Stack the shims as evenly as possible at the top and bottom of your idler. You will need to self source the shims.

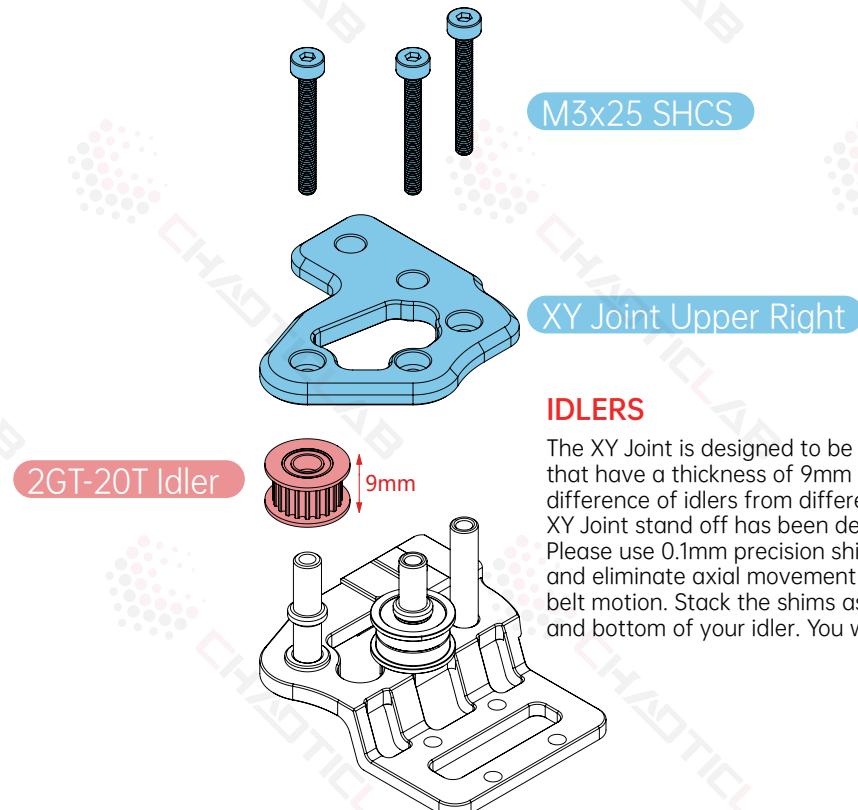
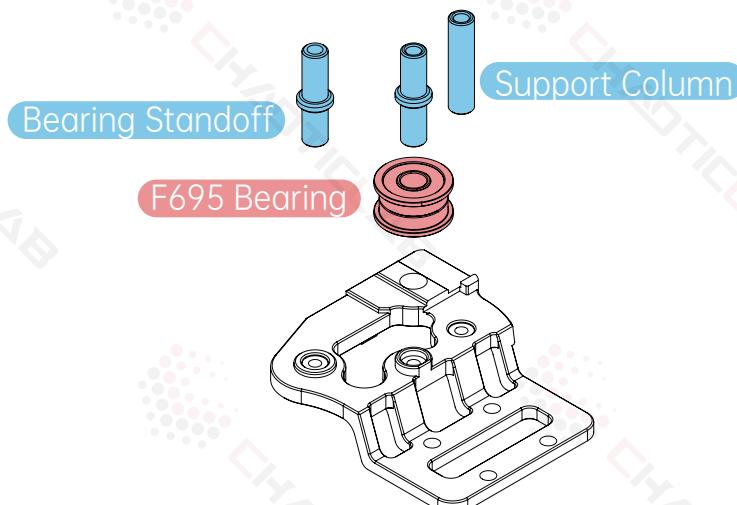


### XY JOINT UPPER LEFT

Marked with "L" or "R" to help you distinguish between the left and right parts.

## XY JOINT RIGHT

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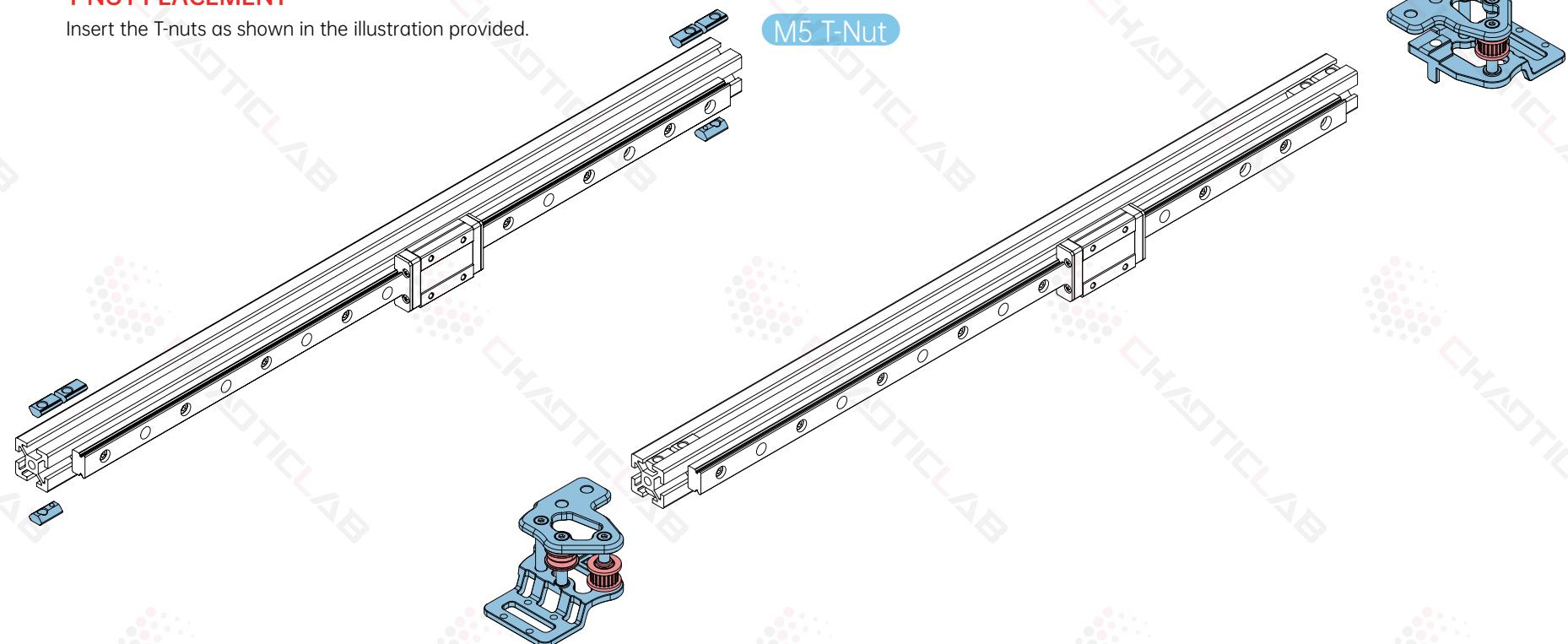


### IDLERS

The XY Joint is designed to be compatible with idlers that have a thickness of 9mm or less. Due to tolerance difference of idlers from different manufacturers, the XY Joint stand off has been designed with extra tolerance. Please use 0.1mm precision shims to adjust the idler height and eliminate axial movement of the Idler to ensure smooth belt motion. Stack the shims as evenly as possible at the top and bottom of your idler. You will need to self source the shims.

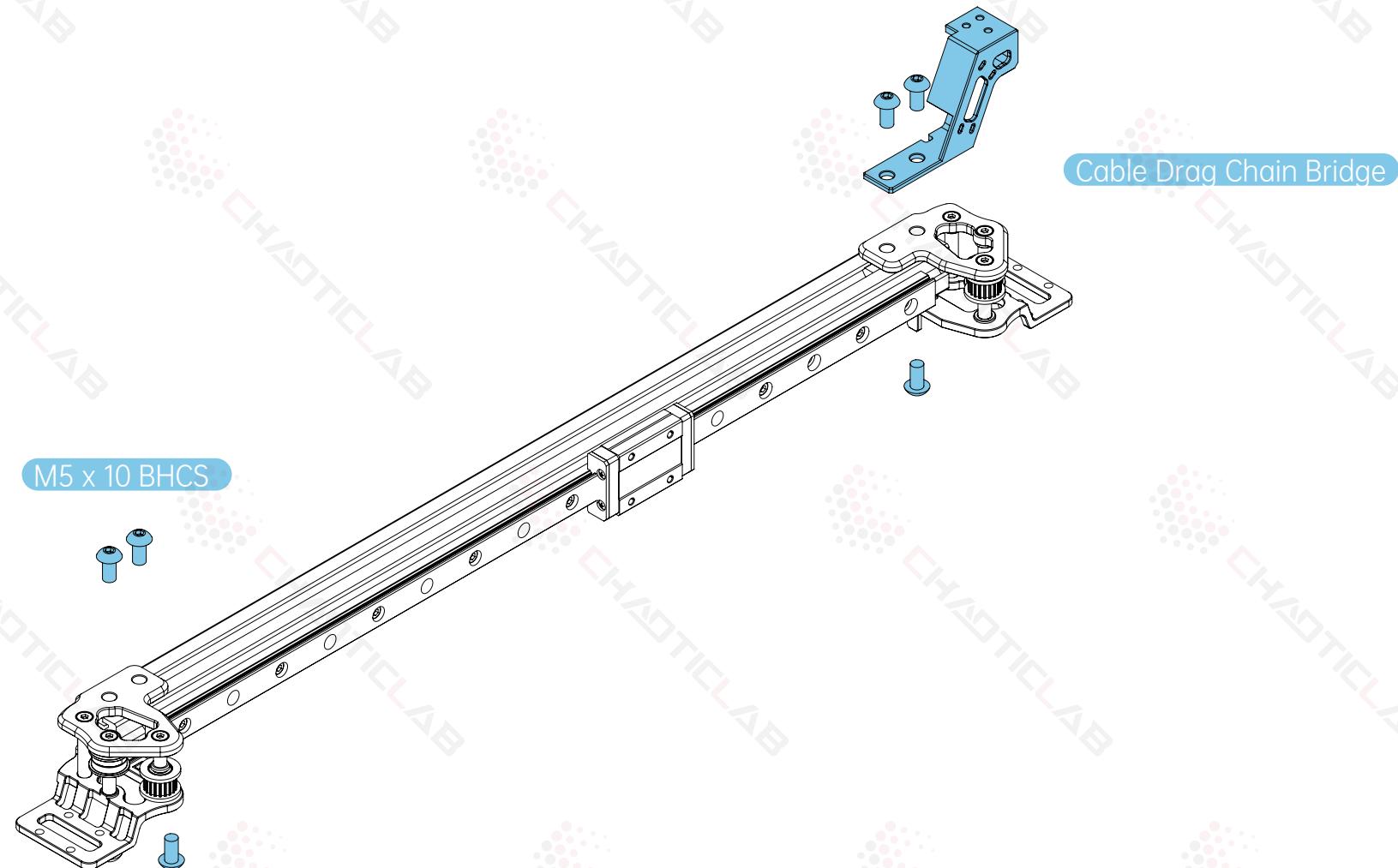
**T-NUT PLACEMENT**

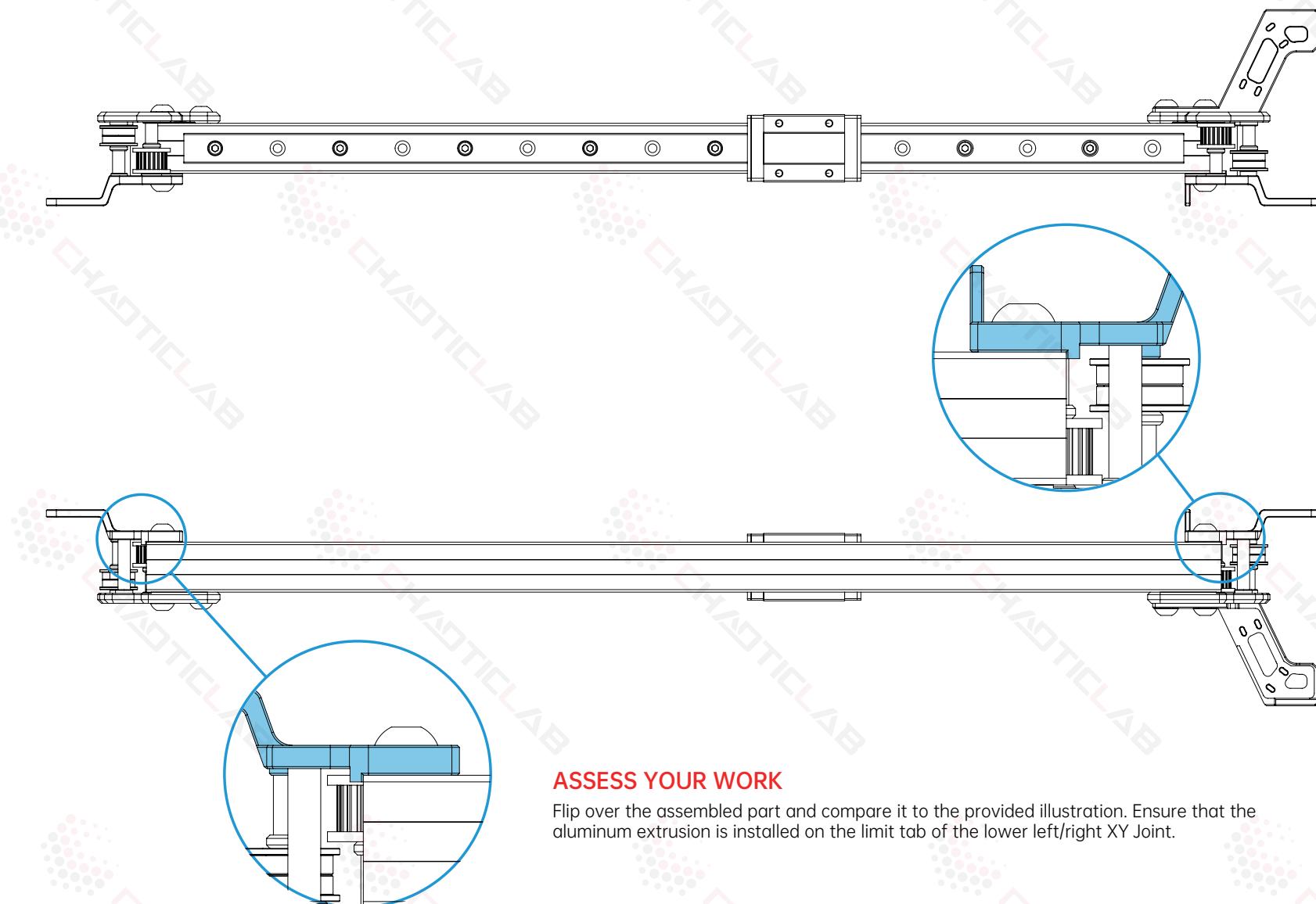
Insert the T-nuts as shown in the illustration provided.



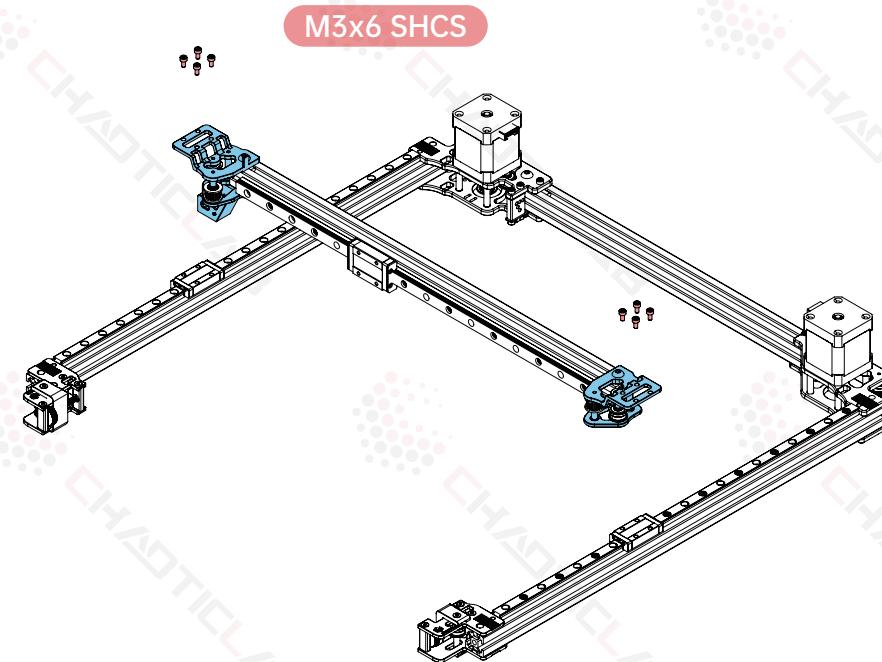
X AXIS

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**ASSESS YOUR WORK**

Flip over the assembled part and compare it to the provided illustration. Ensure that the aluminum extrusion is installed on the limit tab of the lower left/right XY Joint.





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[www.chaoticlab.xyz](http://www.chaoticlab.xyz)

**GitHub**  
[github.com/chaoticlab](https://github.com/chaoticlab)

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[discord.gg/uUCX666tk2](https://discord.gg/uUCX666tk2)

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