

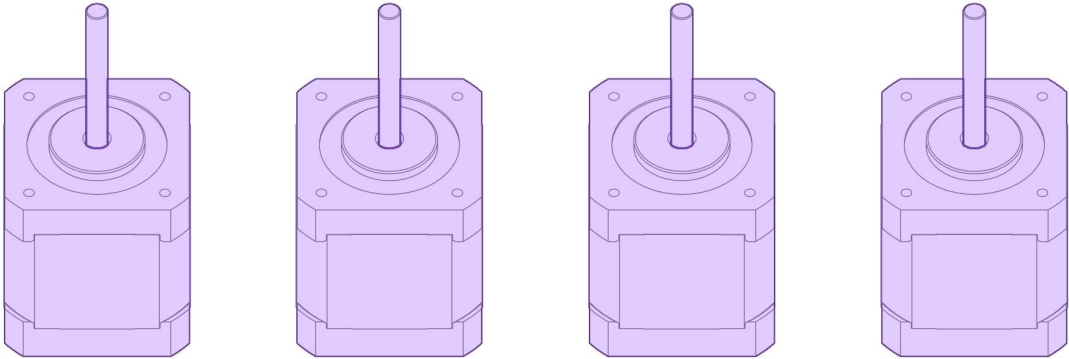
## **MONOLITH GANTRY X-AXIS MANUAL**

# DISCLAIMER

MONOLITH

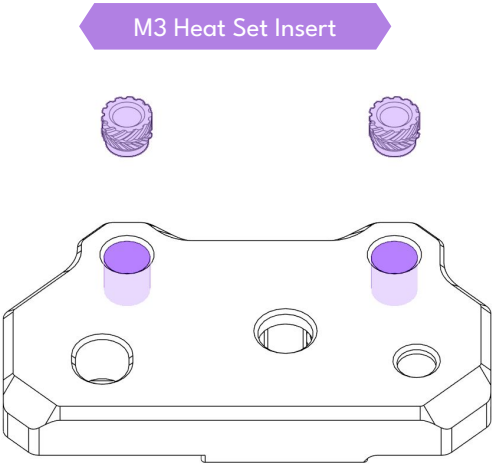
## IMPORTANT NOTICE!

This manual is for **6mm AWD** - Make sure it's the one you printed, otherwise look at the manual for your specific configuration



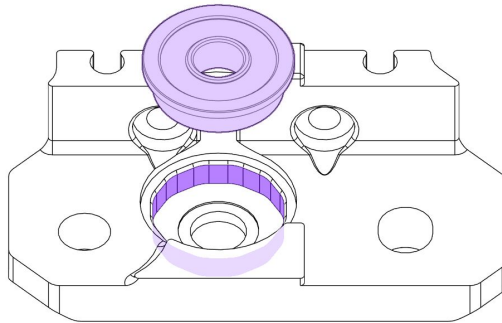
**INSTALL HEAT SET INSERTS x4**

The two bottom parts need M3 heat set inserts, four inserts total.  
The bottom parts are the “rectangular” ones, not the “L shaped” ones

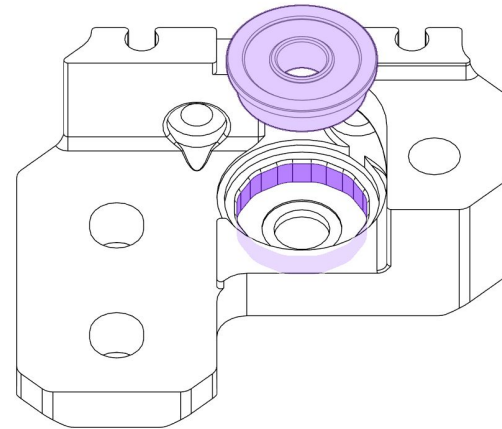


### INSERT LIVE SHAFT BEARINGS x4

For all four printed parts you need to press in a F695 bearing, be sure to make it go all the way

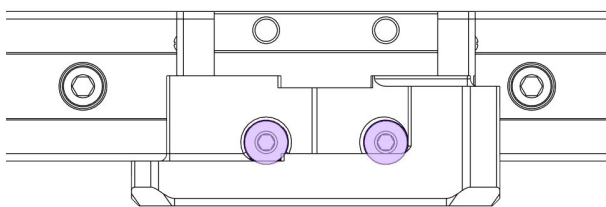
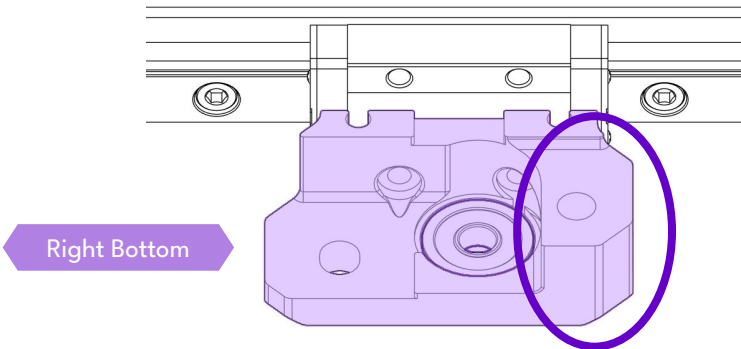
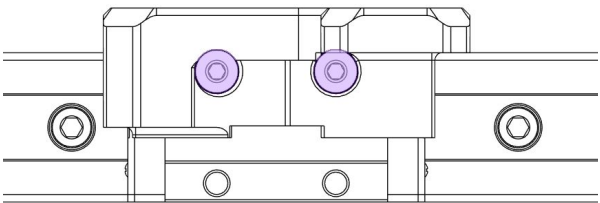
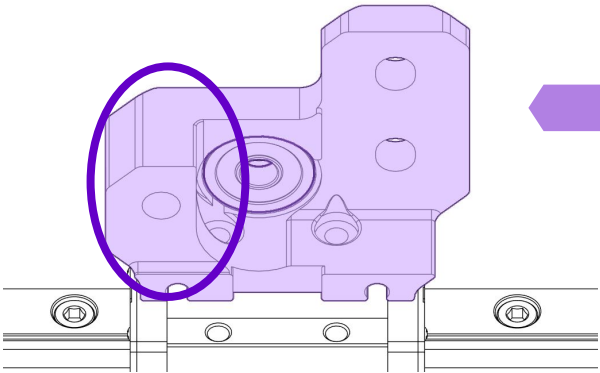


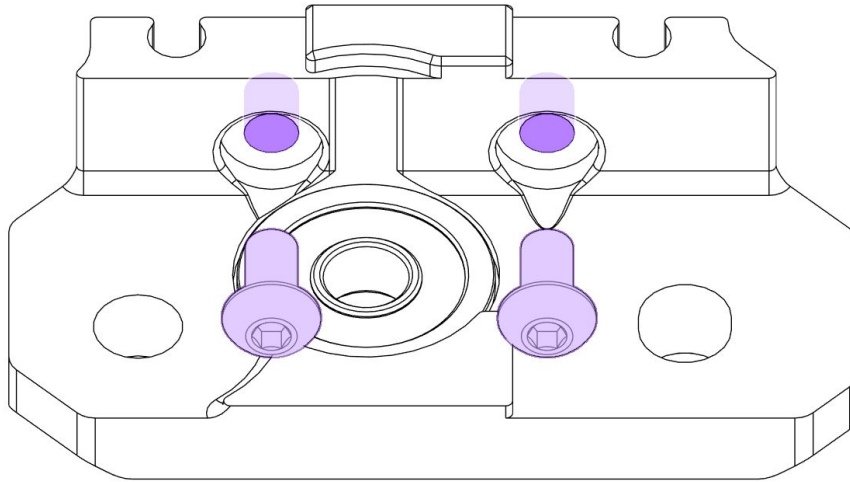
F695 Bearing



## ALIGN AND SECURE FIRST HALVES

Identify the two parts with a raised portion, then orient them so that the “hump” faces the front of the printer, finally install them on the rail carriages firmly tightening the screws, as they will be inaccessible later





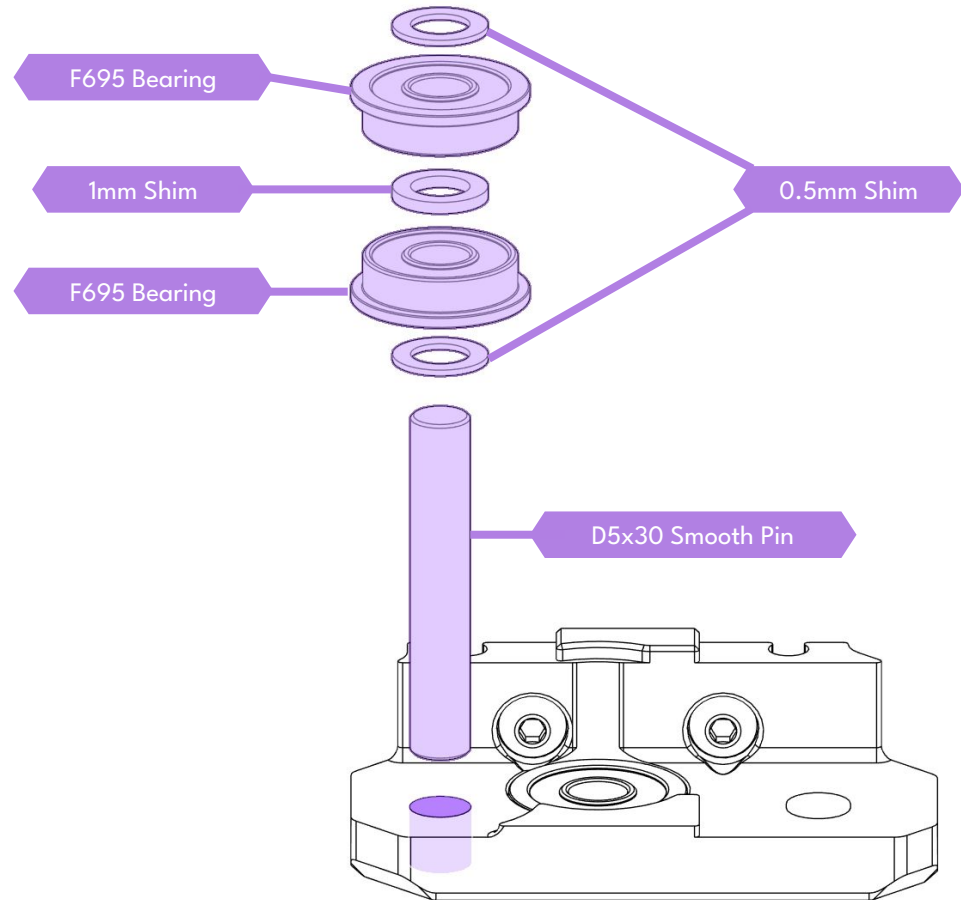
M3x6 BHCS

### PREPARE THE BOTTOM HALF

While the top part is in your hand slide in the two carriage screws, because they won't be accessible later

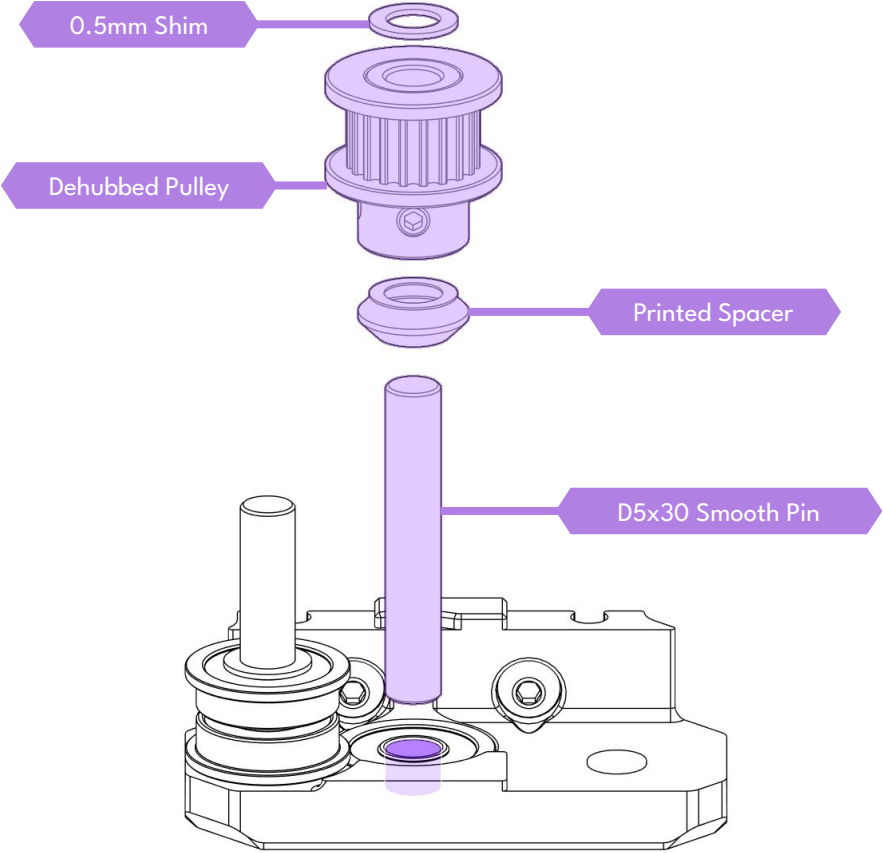
## LEFT XY JOINT

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### CAREFUL WITH THE SHIMS

Different shims are used, so make sure to put each one in the correct place and not use wrong thicknesses



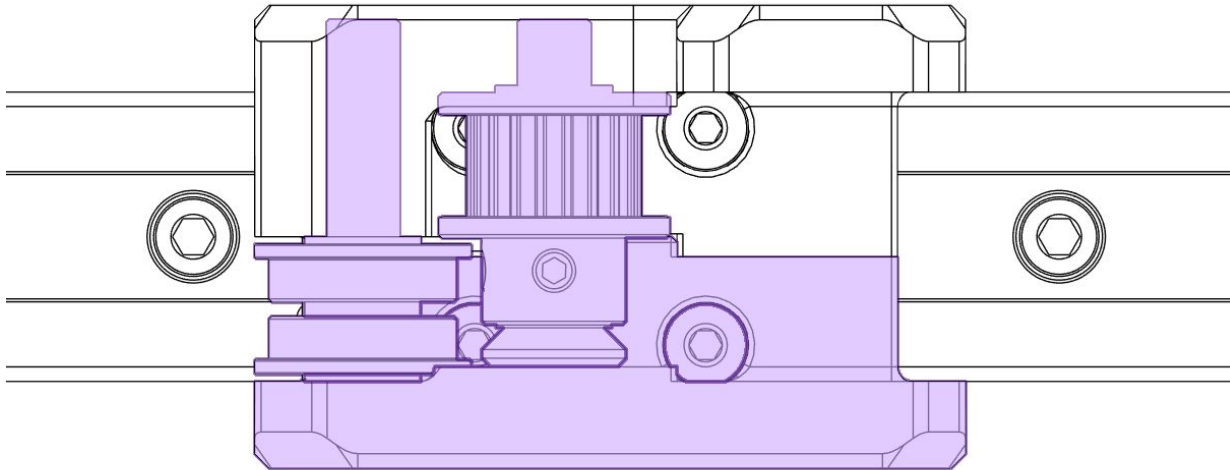
**SECURE THE PULLEY**

After sliding on your already dehubbed pulley remember to tighten the set screws to fix it in place on the smooth pin



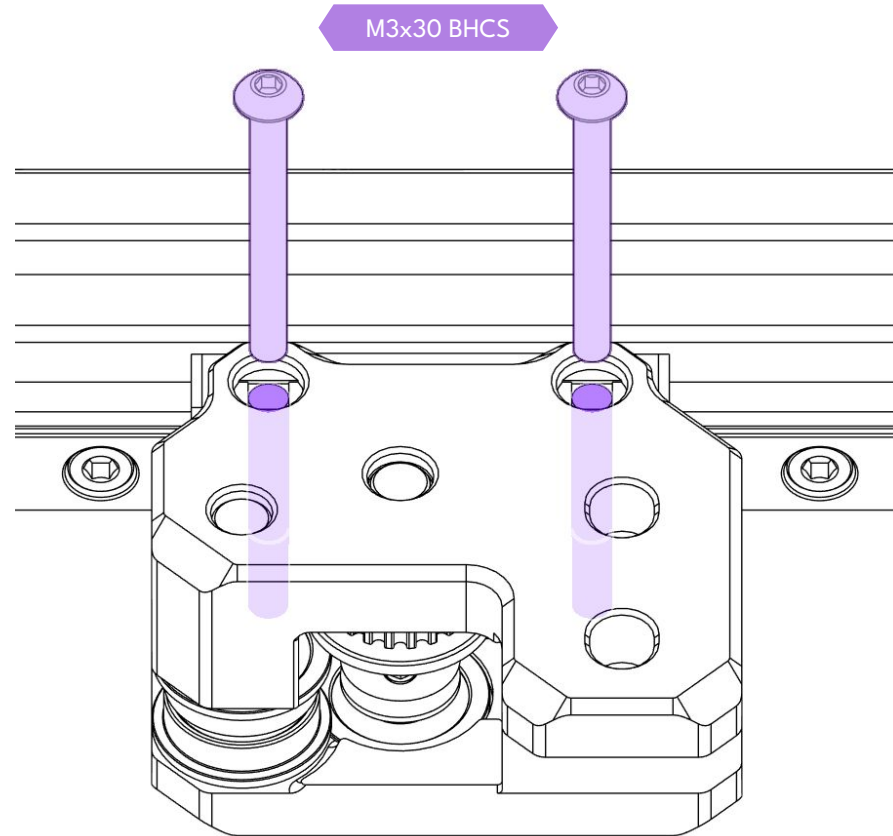
### INSTALL THE BOTTOM HALF

You can finally slide on the bottom part, and then using a thin allen wrench tighten the carriage screws



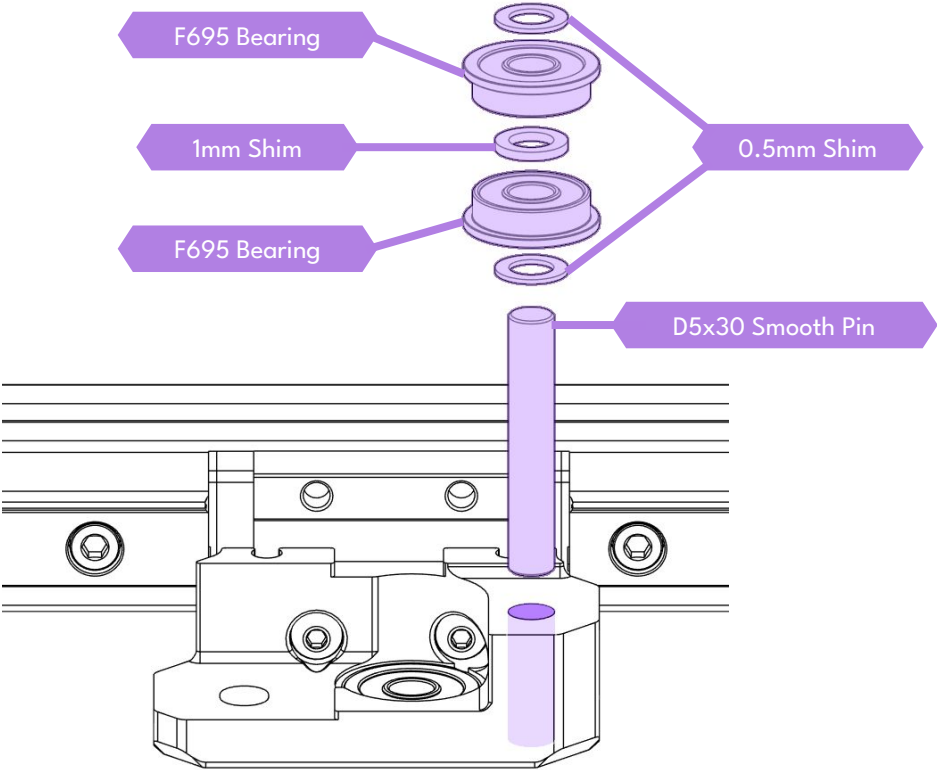
### INSTALL THE BONES

The XY joint is finished by installing the two long screws that keep the assembly compressed together



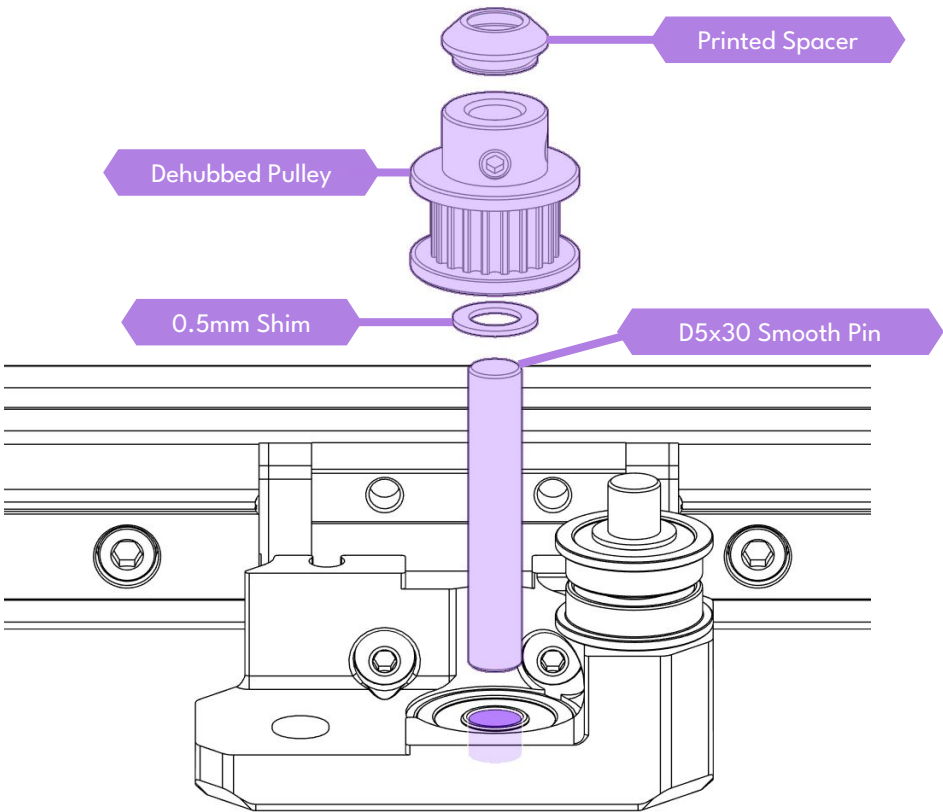
**CAREFUL WITH THE SHIMS**

Different shims are used, so make sure to put each one in the correct place and not use wrong thicknesses



**SECURE THE PULLEY**

After sliding on your already dehugged pulley remember to tighten the set screws to fix it in place on the smooth pin

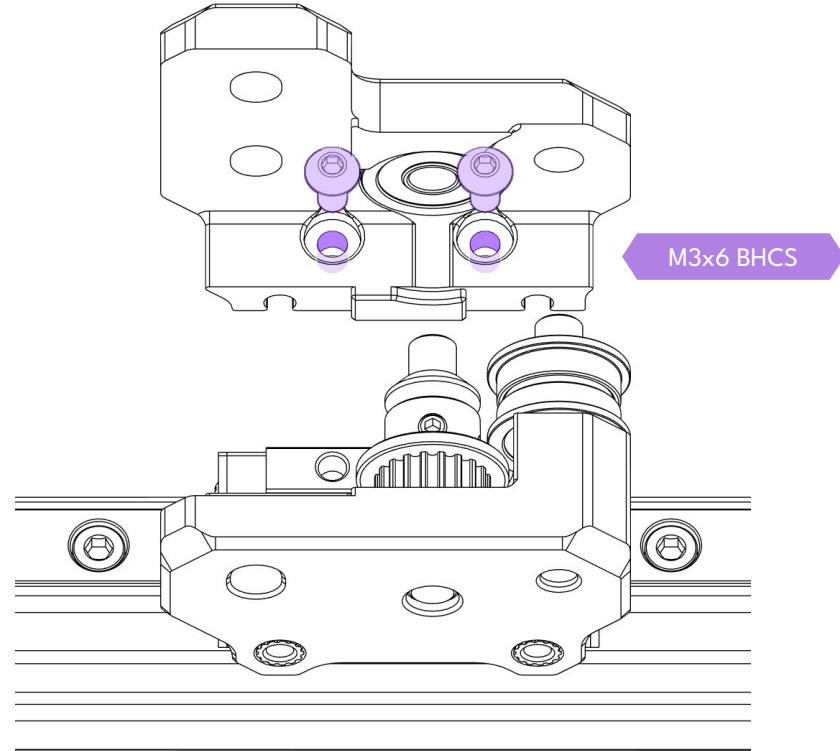


## RIGHT XY JOINT

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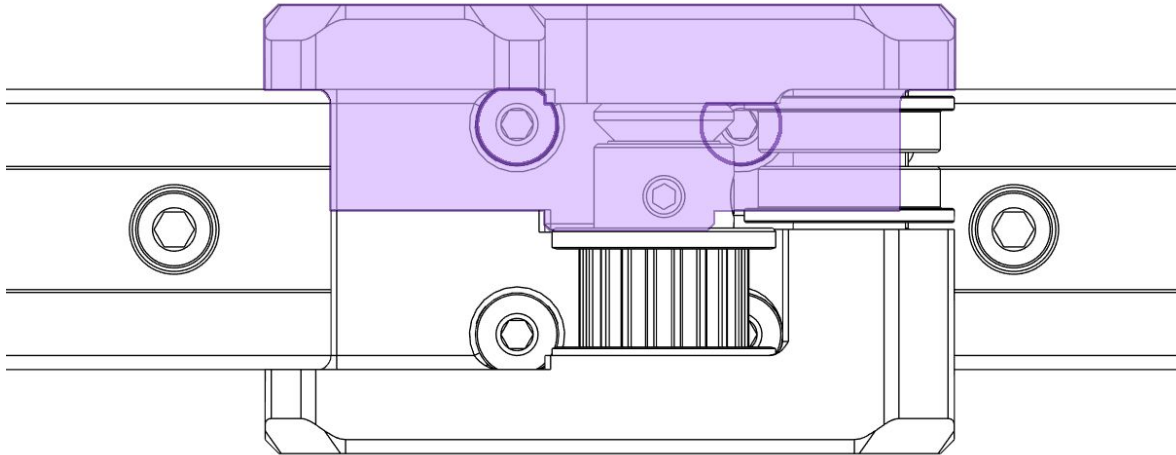
### PREPARE THE TOP HALF

While the top part is in your hand slide in the two carriage screws, because they won't be accessible later



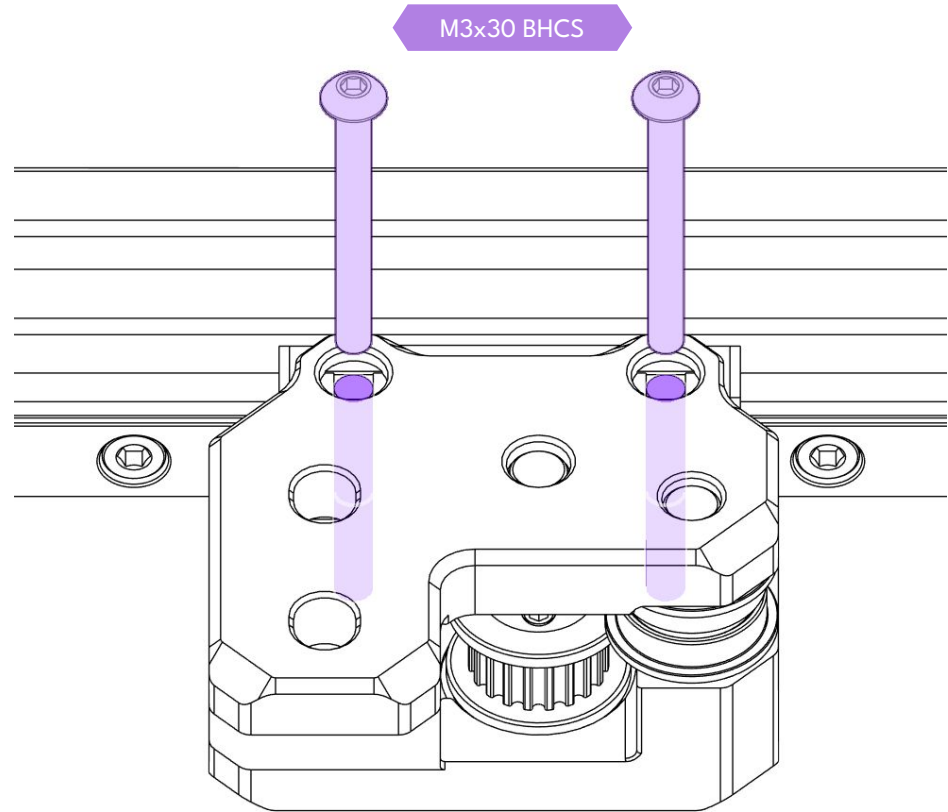
### INSTALL THE TOP HALF

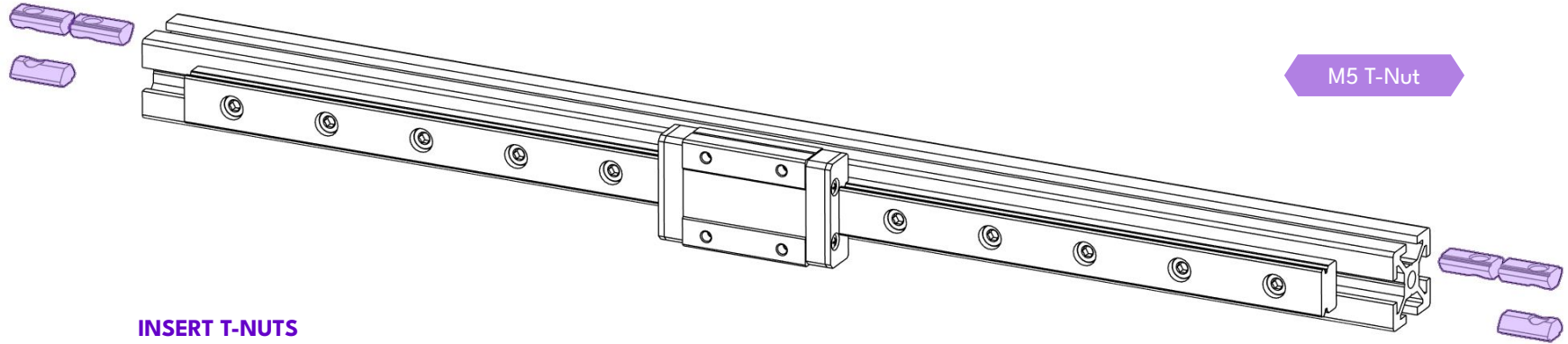
You can finally slide on the top part, and then using a thin allen wrench tighten the carriage screws



### INSTALL THE BONES

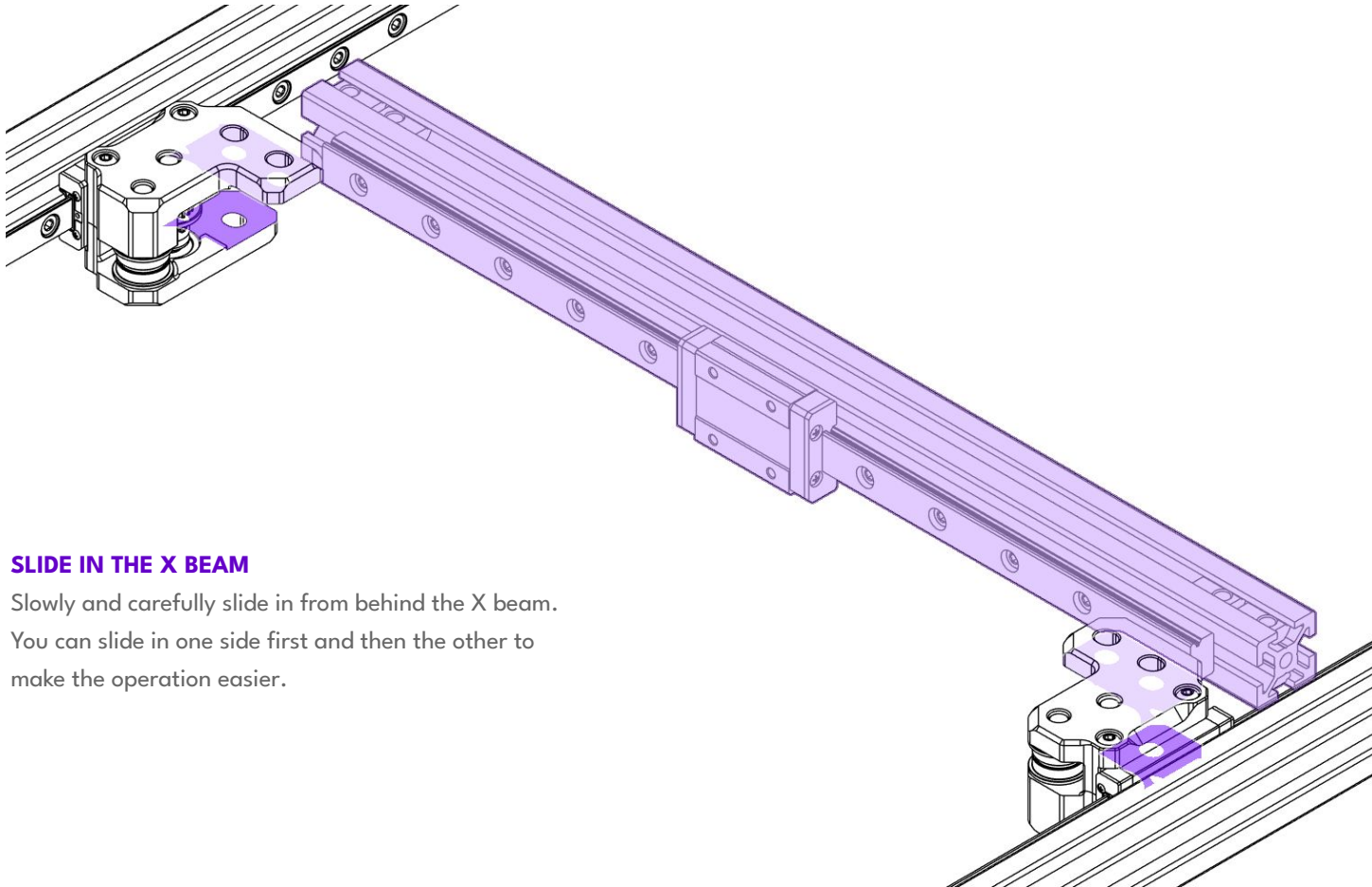
The XY joint is finished by installing the two long screws that keep the assembly compressed together



**INSERT T-NUTS**

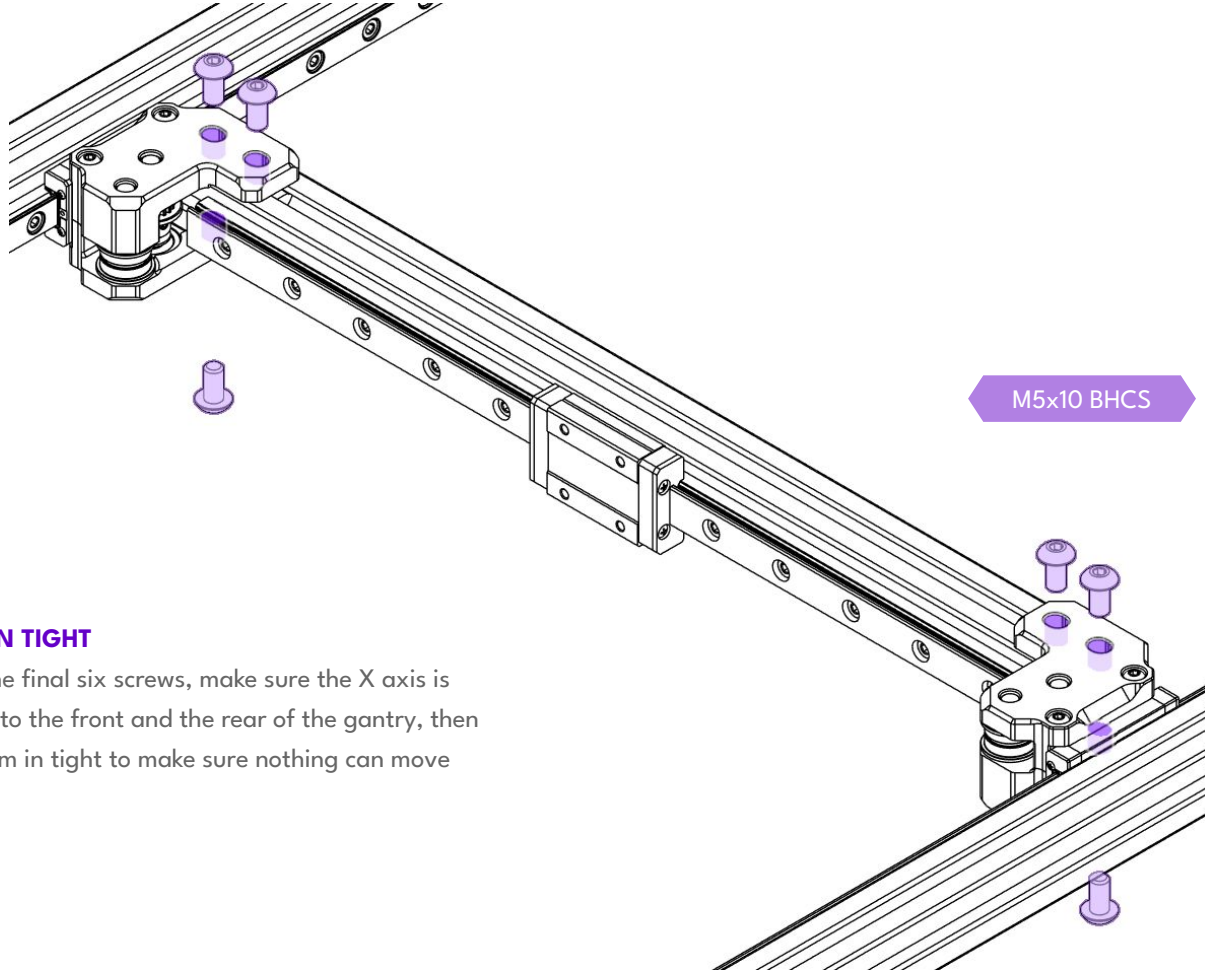
Take your X extrusion and rail, and slide in two T-nuts per side on top, and one per side in the bottom



**SLIDE IN THE X BEAM**

Slowly and carefully slide in from behind the X beam.

You can slide in one side first and then the other to make the operation easier.

**SCREW IN TIGHT**

Slide in the final six screws, make sure the X axis is trammed to the front and the rear of the gantry, then screw them in tight to make sure nothing can move

# THANK YOU

# MONOLITH

## **CloakedWayne**

Creator of this amazing gantry

## **TheAdeo**

Maker of the manual

**Join us on Discord!**

[discord.gg/monolith3d](https://discord.gg/monolith3d)

