

# KING GUBBY DESIGNS



## Sculpfun S9 Z Axis Adjuster



## INSTALLATION MANUAL

# Included Parts For Z Axis



**Carriage Plate**



**Module Plate**



**S9 Adapter Plate**



**M6 Bolt**



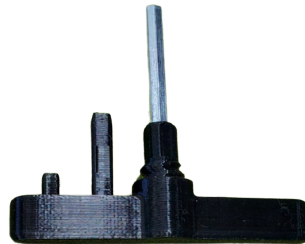
**Barrel Nut**



**Bolt Clip**



**4mm T Handle Wrench**



**6 x M3 Screws**



**6 x M4 Screws**



**4 x M4 Hex Nuts**



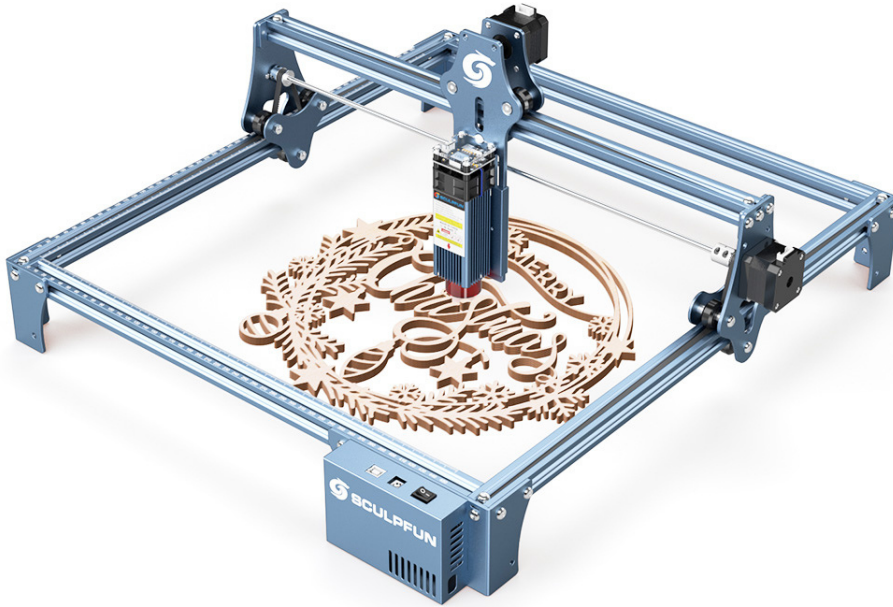
**6 x M3 Hex Nuts**



**2 x M4 Countersunk Screws**

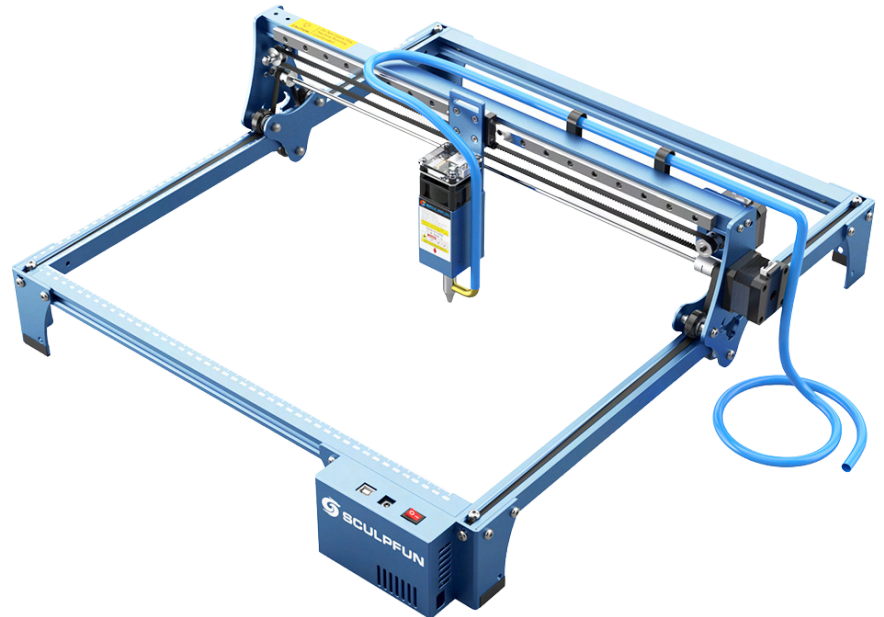


**This product is for the Sculpfun S9**



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**This will not work for the Sculpfun S10**



# **IMPORTANT**

**You need to check your home stop before turning on your laser, after installing the Z Axis. This is to avoid damage to your laser.**

- **With Z Axis Adjuster installed, home laser by hand**
- **Observe the space between your front rail and your module**
- **If the module comes in contact with the front rail, without hitting the home stop contact switch, you will need to move the contact switch to a position that renders it effective (engages it)**
- **Do this by positioning the module so that there is a space between it and the front rail and move your home stop contact switch forward until it is fully engaged.**
- **Tighten your home stop at this position. Refer to your laser's manual for home stop switch locations**
- **Retighten your belt(s)**

**If the switch is activated and the module does not come in contact with the front rail you do not need to move your home stop**

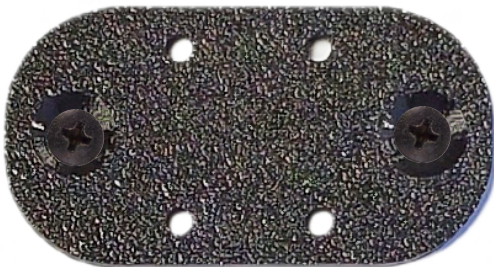


**1st step: Prepping the Module Adapter**  
Insert the M3 nuts into the available hexagons on the King Gubby Module Adapter. Then, remove the Sculfun module from the Slider Plate by unscrewing the 2 thumb screws (Circled in yellow).

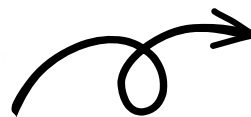


## 2nd Attach the Module Adapter

Now, with the nuts installed and the Sculpfun module removed, face the King Gubby Module Adapter Plate's 'S9' to the Sculpfun Module, aligning the countersunk holes with the available holes in the module. Use the provided countersunk M4 screws to attach the Module Adapter Plate to the Sculpfun Module. This should 'sandwich' or hide the 4 x M3 nuts, that were installed in the last step, up against the module.

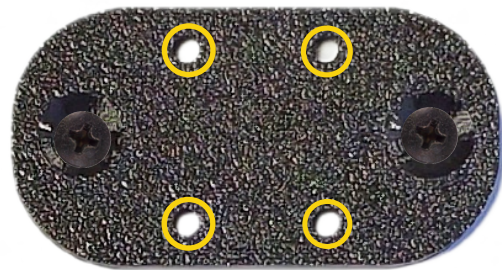
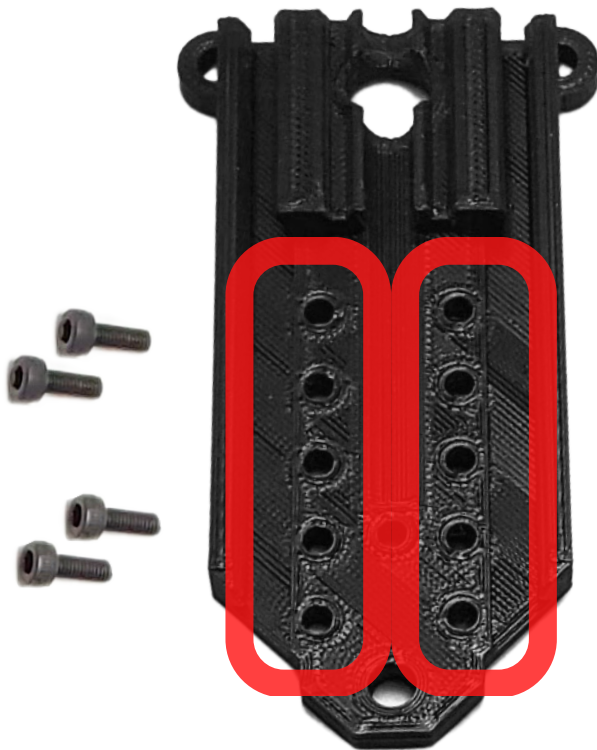


The embossed 'S9' on the module adapter plate will face the module.



### 3rd: Attaching the Z Axis Module Plate to the Module Adapter

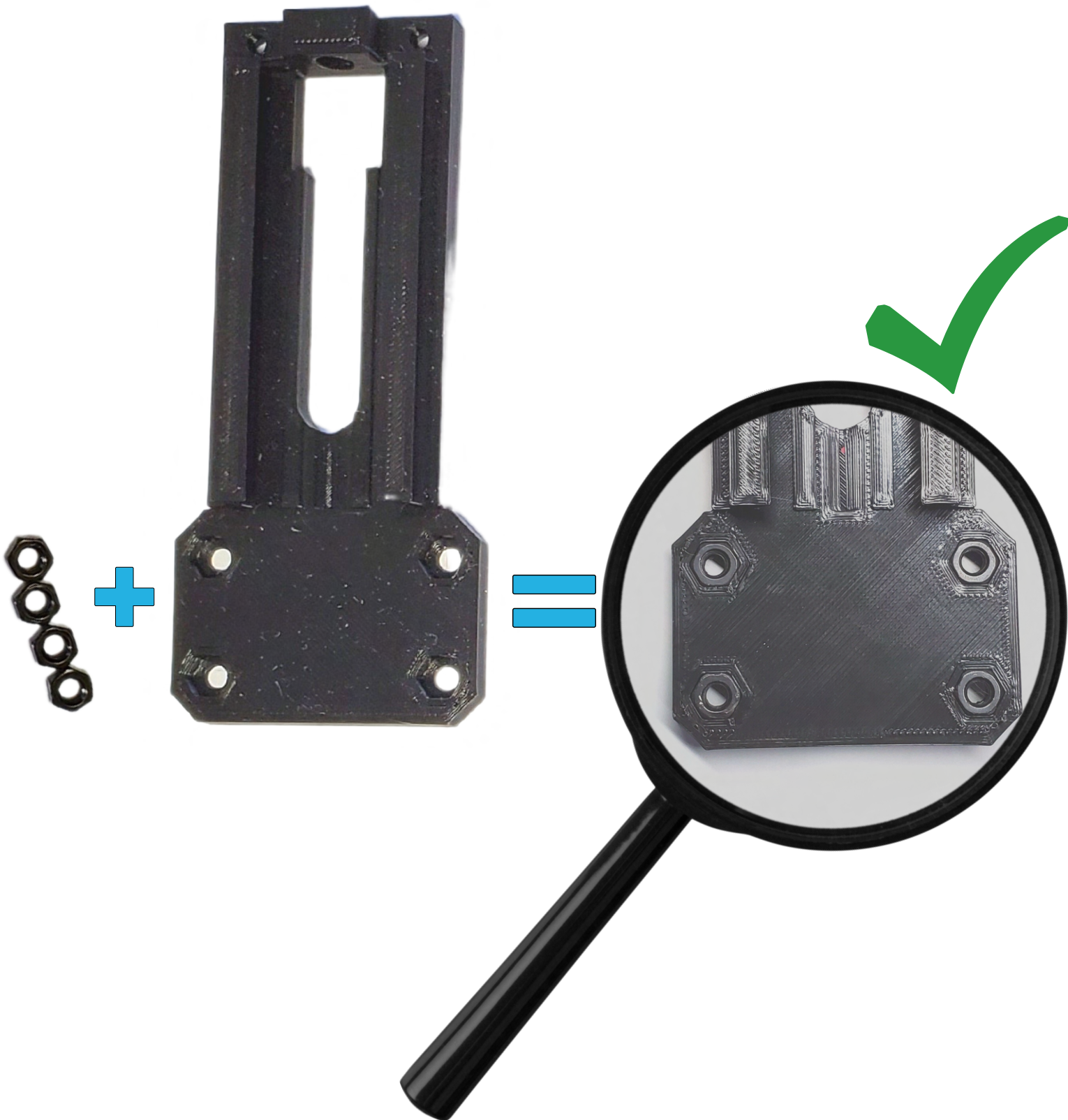
Choose desired position/height of module by selecting holes on the Module Plate (circled in red). Mount the Module Plate to the Module Adapter (Which should now be fastened to your Sculpfun Module) using four supplied M3 screws. Remember the M3 nuts that we 'sandwiched'? You are screwing these M3 screws into them now 👍 (Circled in yellow below).



Smooth side of Module Adapter Plate should be showing (not the side that says 'S9')

# 4th: Prepping the Carriage Plate

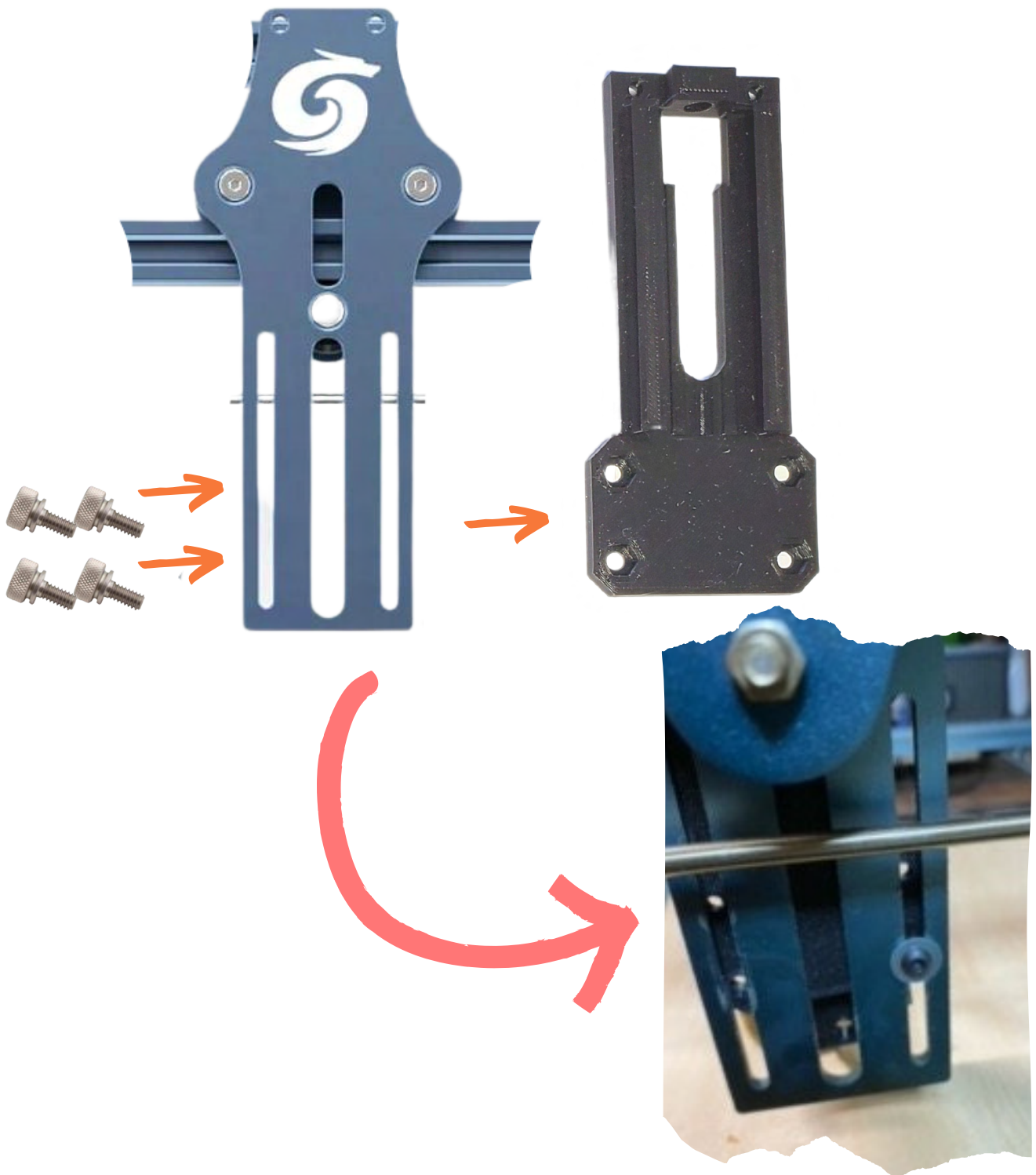
Insert the M4 nuts into the available hexagons on the carriage plate.





## 5th: Attaching the Carriage Plate

Attach the Carriage Plate to the laser carriage by using the four stock carriage 'thumb' screws. Slide them through the Sculpfun Carriage Slider Plate slots and tighten through the King Gubby Carriage plate at the 4 x M4 nuts.

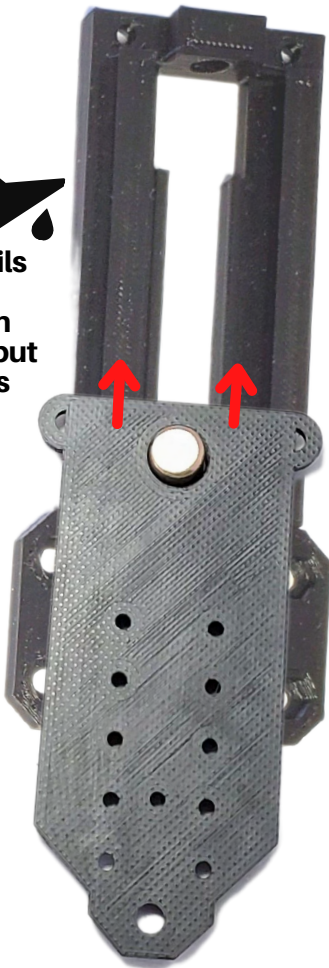


## 6th: Assembling the Z Axis

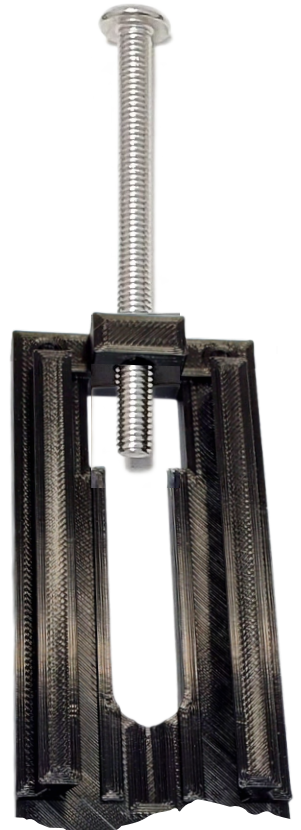
Now, slide the module plate (with module attached) onto the carriage plate (attached to carriage) via the dovetail channels. Insert the barrel nut in the provided open hole on the module plate (circled in red below). Next, slide the M6 bolt (75mm) through the hole in the top of the carriage plate, and screw to desired height, through the barrel nut.



Oil the dove tails on both sides. Preferably with dry lubricant, but any lubricant is acceptable



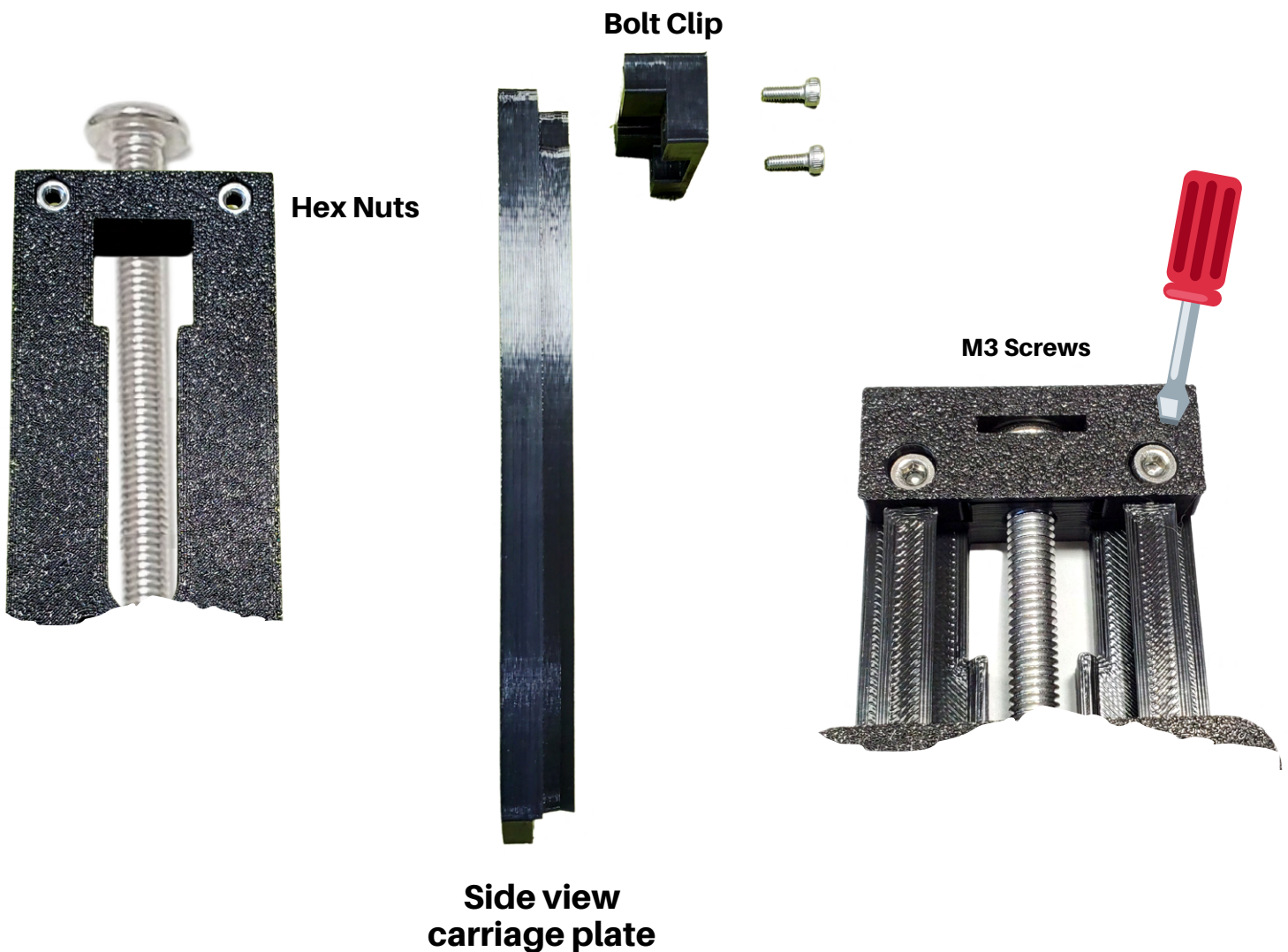
Make sure the slit on the barrel nut is facing away from the module





# Last step: Locking the Bolt Down

Make sure the bolt head is touching the carriage plate and slide the bolt clip over the top of the bolt head to keep bolt from unscrewing while adjusting the axis. Set the remaining hex nuts in the fitted slots on the carriage plate and use the remaining M3 screws to attach the bolt clip to the carriage plate.



**If you also got one of our Knob Upgrades, please click the image below or follow the link to see the manual.**

# **Z AXIS ADJUSTER KNOBS**

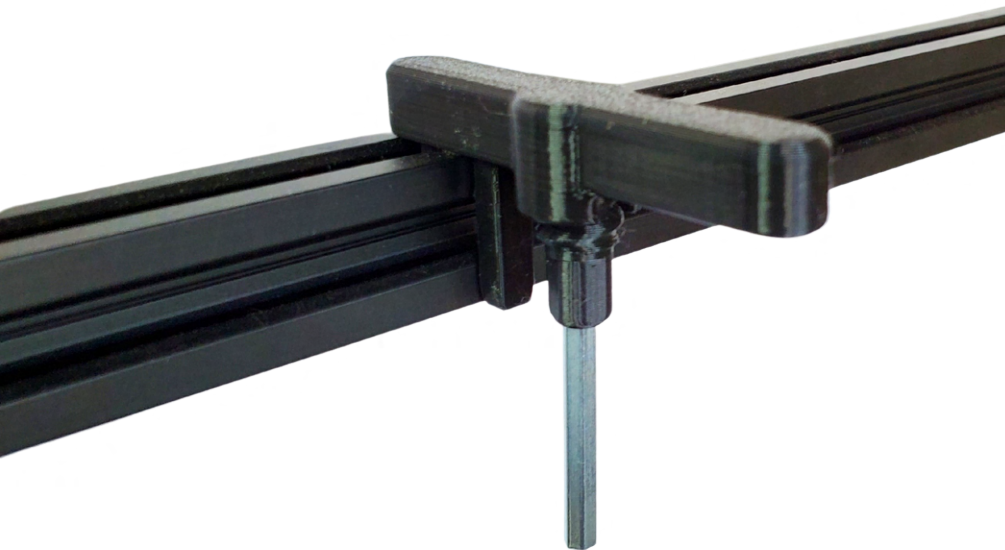
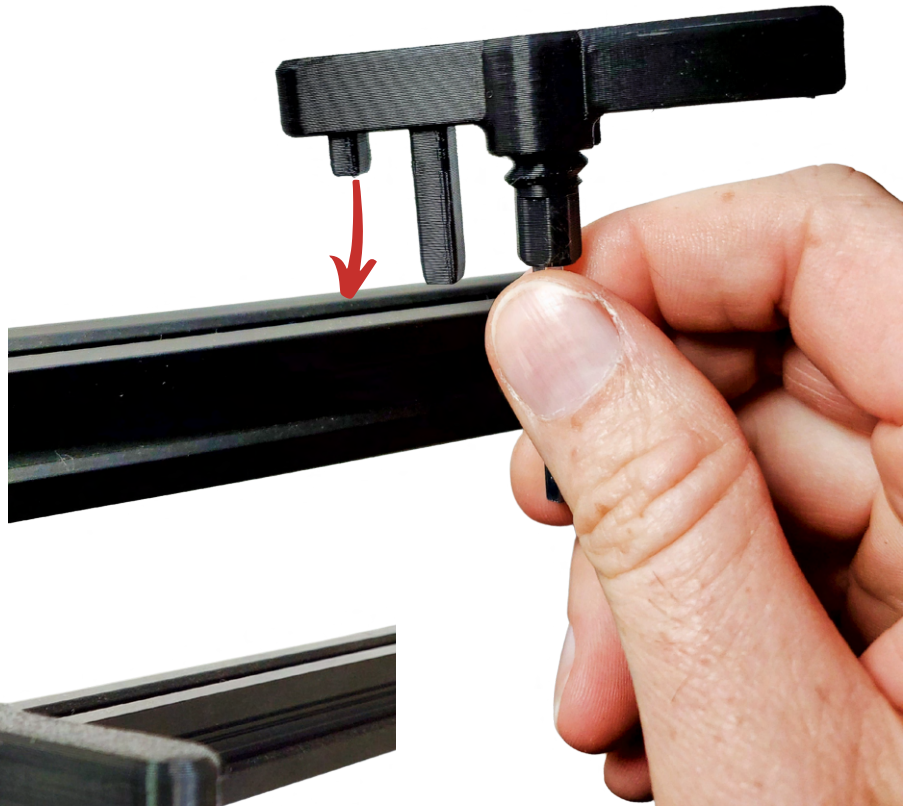
For All King Gubby Designs Z Axis Adjusters



**<https://cutt.ly/zknobs>**

**Oh and...**

**By the way, the reason the t-handle looks so funny is because it rests on your laser's aluminum extrusion. Keeps it out of reach of those tool trolls.**



Contact Us:  
KingGubbyDesigns@gmail.com

Tag us in your projects



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