

# KING GUBBY DESIGNS



## BELT TENSIONERS



## INSTALLATION MANUAL

Watch the install video here  
Scan or Click The QR Code



# Included Parts



K G D

## Tension Column

Comes with Left Y baseplate,  
Right Y baseplate, and X baseplate



baseplate

## Tension Knob



## Threaded Tensioner

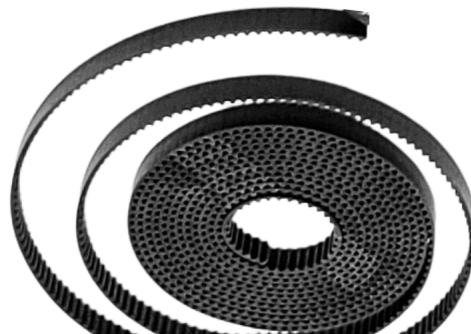


## Belt Ties

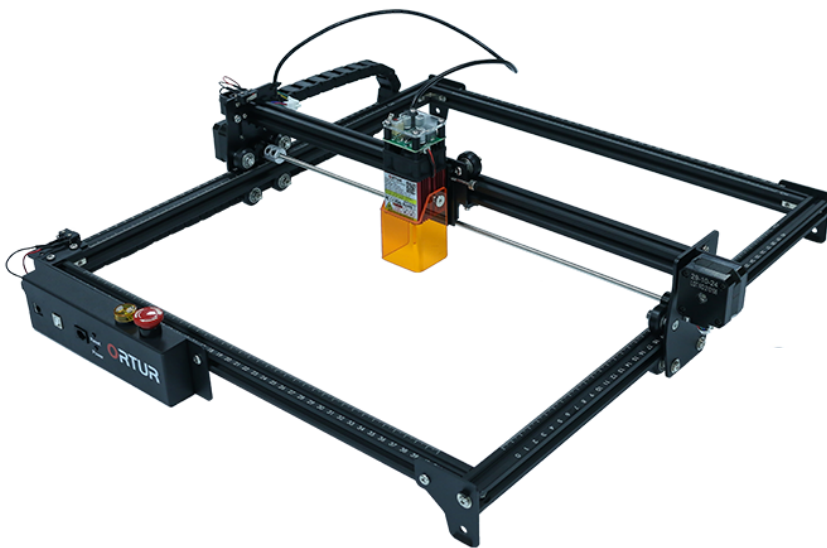
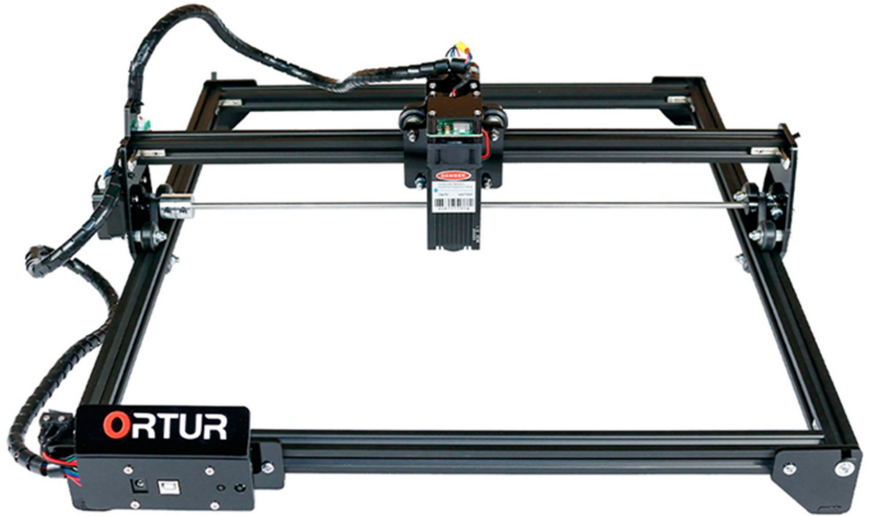


## GT2 Timing Belts

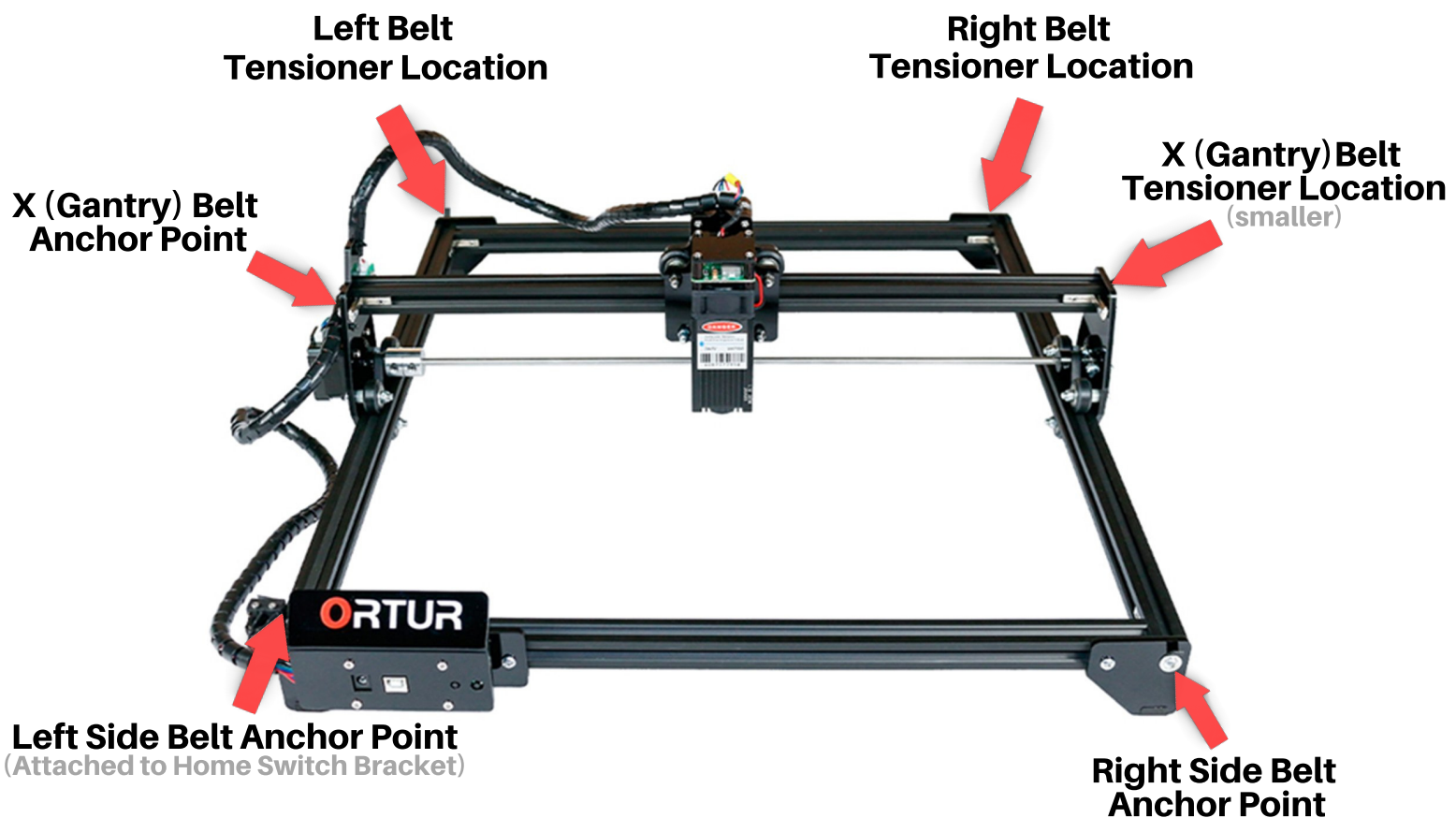
(Add-On)



# This product is for the Standard Laser Master 2



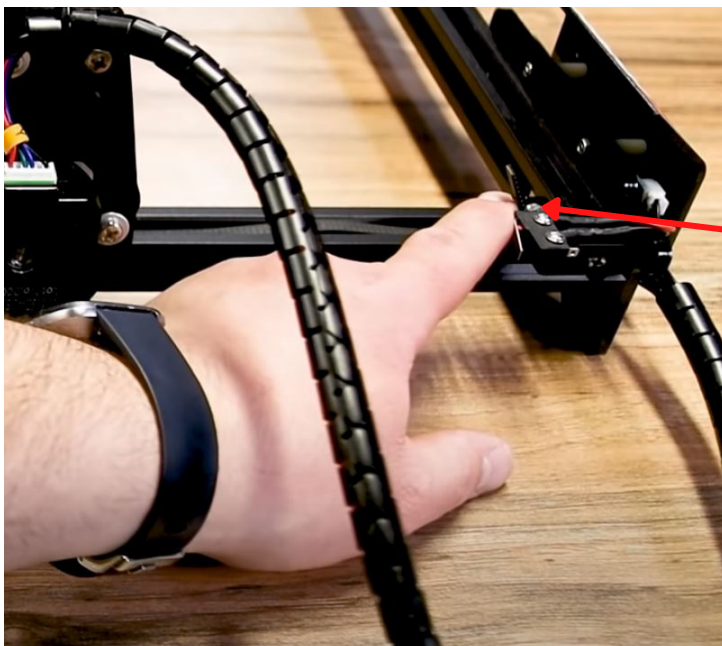
# Attachment Points & Anchor Points



Note - Before you get started, the stock belts may not have enough length to incorporate the tensioners if you clipped off the ends when you assembled your laser. We sell extra belts on our eBay page that are custom cut for the tensioners.

## 1st step:

Remove both foot screws (pictured below). Note that one is the belt anchor. Then, pull about 5 inches of belt slack towards you. For the left side tensioner, you will need to take off your end stop (home stop) switch in order to pull the belt slack.



End Stop Switch Screw  
&  
Belt Anchor

## 2nd:

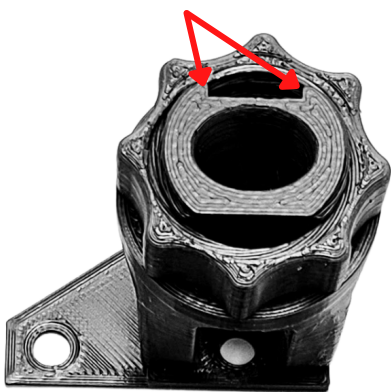
**Remove the Ortur foot from the laser's frame and attach the corresponding Tension Column to the foot (see below). Make sure to match the left column baseplate to the left side and the right column baseplate with the left side. Then, slide the belts back through and reattach the laser feet with the stock hardware.**



# 3rd:

Identify the way in which the Threaded Tensioner slides into the Tension Column. Note, there is only one way they slide in correctly. The "notches" will face upward when sliding in and the belt anchor point will go into the Tensioner Column first (see below). Next we will attach the belts to the anchor point.

Notches



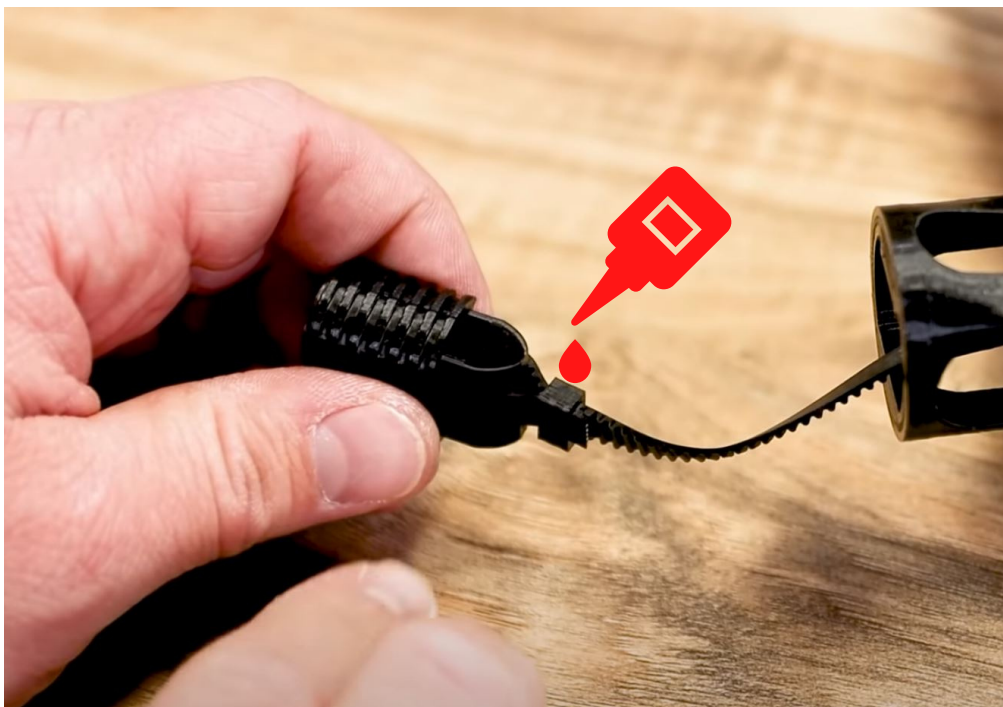
Belt anchor point



# 4th:

Slide a Belt Tie a few inches on to your belt. Wrap the belt around the anchor point of the tensioner. Once wrapped, make sure the *teeth are interlocking* on the other side and slide the Belt Tie onto the overlaying part (see below). Put a dab of glue to secure the Belt Tie to the belt more securely. If you don't have glue, you can also use a zip-tie or a standard belt crimp.

Remember to face the belt so that the teeth interlock once wrapped.



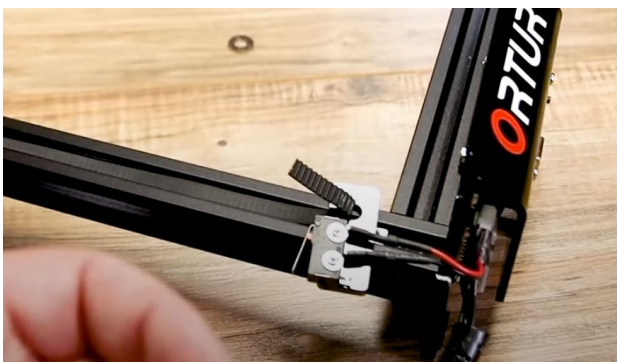


## 5th:

Once the glue has dried, screw a knob onto the end of the Threaded Tensioner (just enough to be securely on there but not any farther like in top right image below) pull your belt all the way through to its opposing anchor point, slide the Threaded Tensioner into the Tension Column, pull tightly on the belt at the opposite end, and anchor it down with the stock screw and washer.



You can also anchor the belt tightly, without putting the knob on the Threaded Tensioner. If you screw the knob too far down on the Threaded Tensioner while anchoring at the other end, you may end up with too much slack in the belts for the tensioner to do its job.

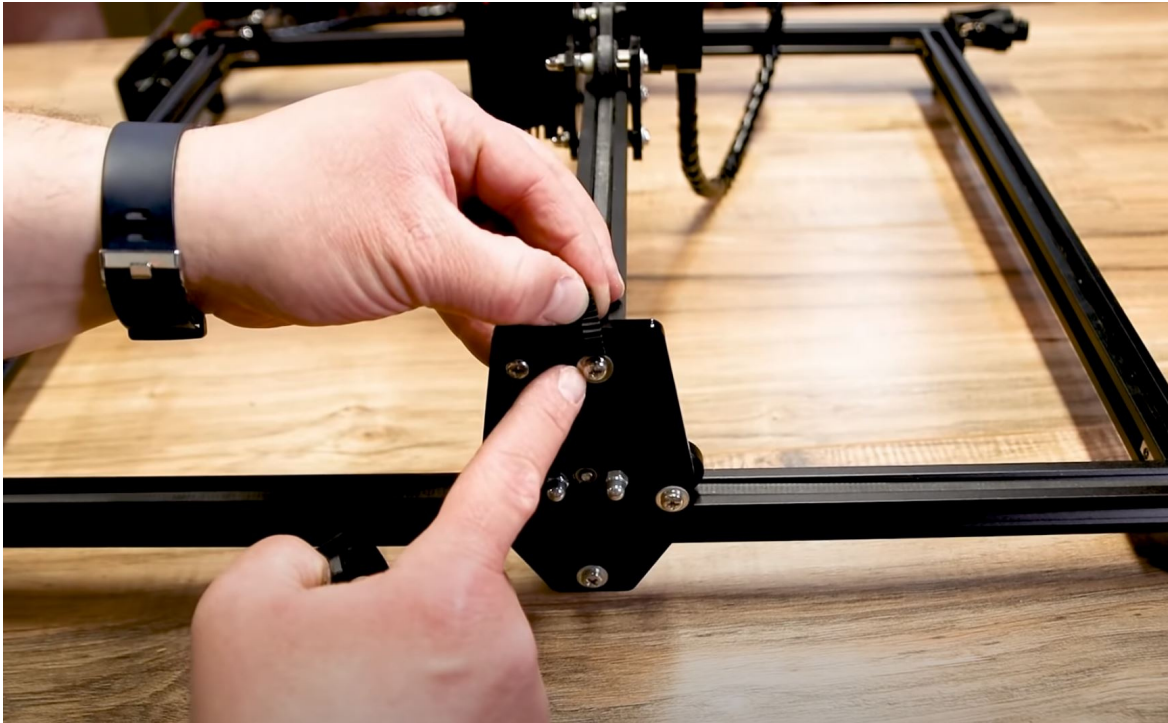


Place a finger on your gantry and pull the belt through to get ready to anchor. Pull belt through end stop anchor hole and screw back down with stock screw and washer into the stock t nut.

Make sure you remember to pull the belts tight before securing it down.

# Finally:

Installing the X Axis (Gantry) Belt Tensioner is the same as the other 2 but you will notice that the baseplate for the X Tensioner is smaller. Make sure you are putting the tensioner on the right side of the laser (pictured below).



**\*\* Make sure to recalibrate your home stop to make sure it is not off after removing and reattaching.**



Thanks to Jim at The Edge of Tech (YouTube & Instagram) for the great video and the snapshots for this manual. Please look him up and follow him.



Contact Us:

KingGubbyDesigns@gmail.com

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