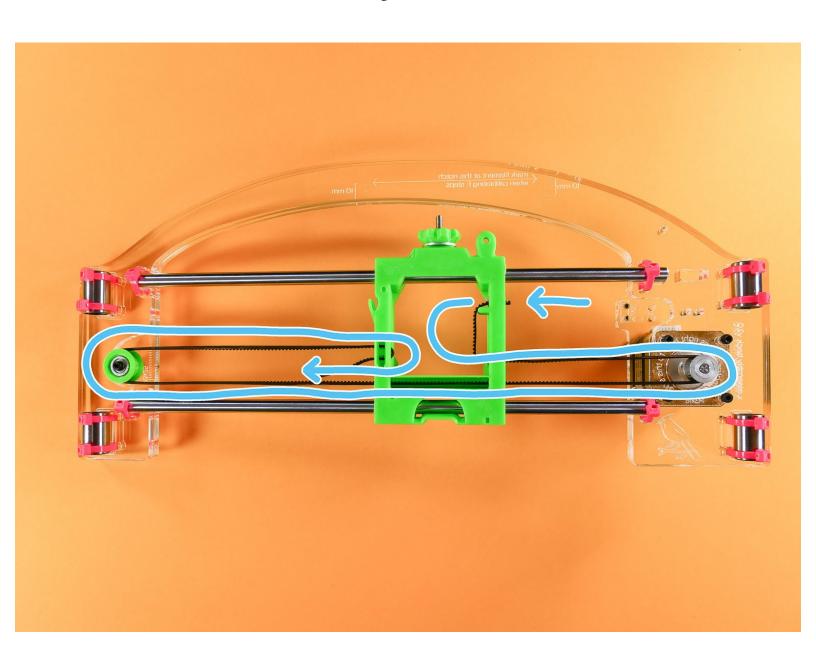


02. X Assembly Motion Platform



Step 1 — ↳ Install the X Pulley

(i) This procedure is the same as installing the Y Pulley you did a while ago - just with the X Motor :-)

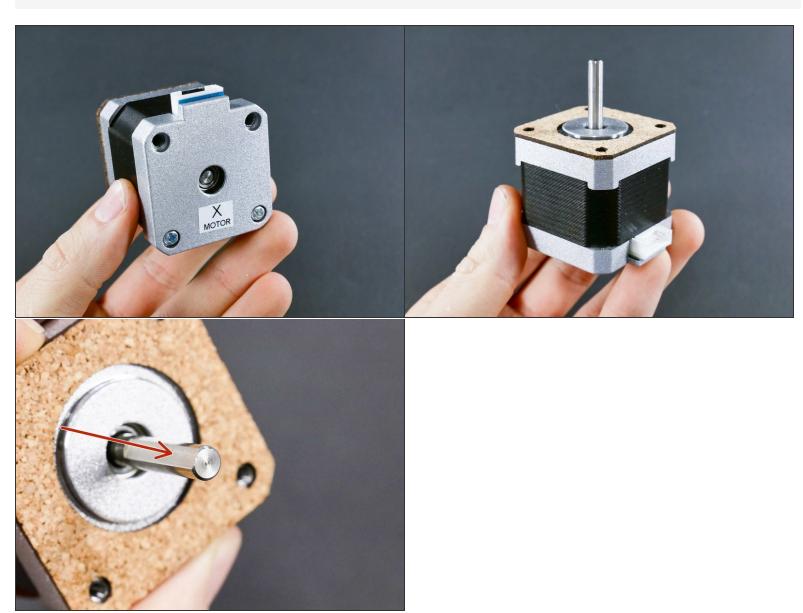
Step 2



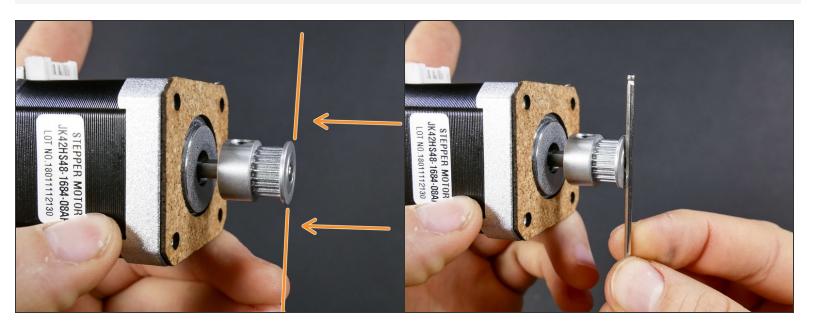
Insert wisdom here.



These little things are called set screws or grub screws. Our set screws also have a blue nylon patch that prevents loosening by vibrations (the patches are a kind of threadlock)



Notice that the motor shaft has one **flat side**.

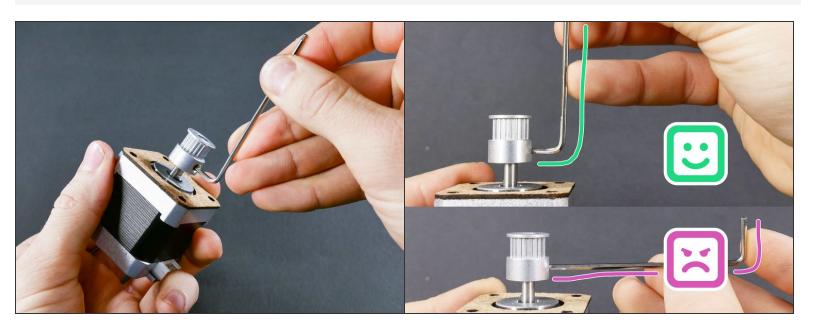


Make the top of the motor shaftflush with the top of the pulley.

Step 6



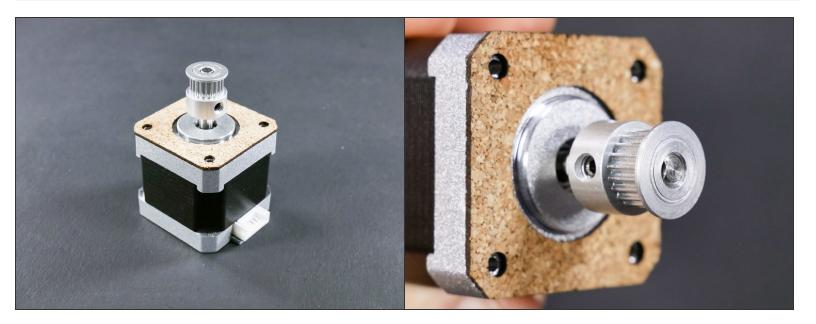
Rotate the pulley so that one **set screw** is against a **flat side** of the motor shaft. This is extremely important.



↑ Tighten both set screws well using the long side of the hex key. We do not want these to be loose.

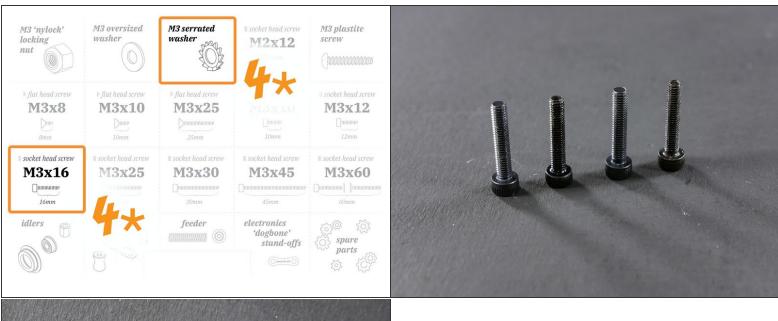
Tightening well does not mean tightening with unrestrained force. You can strip the set screw threads or its hex head if you use too much force.

Step 8 — Tadaaa!



Insert wisdom here.

Step 9 — 4 X Motor

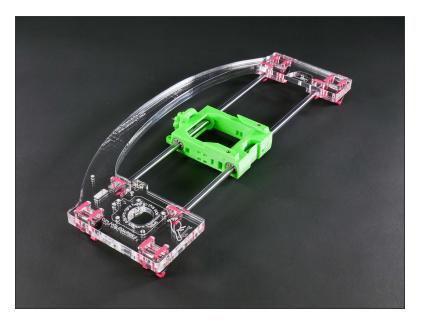




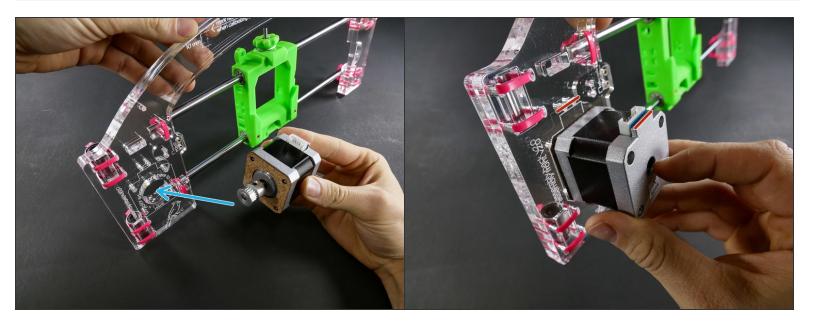
M3x16

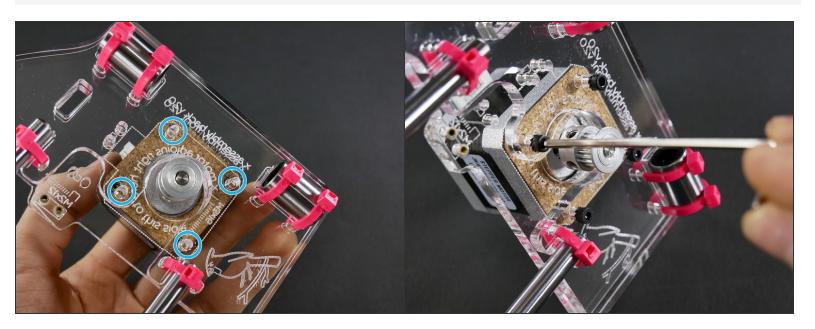


M3x16



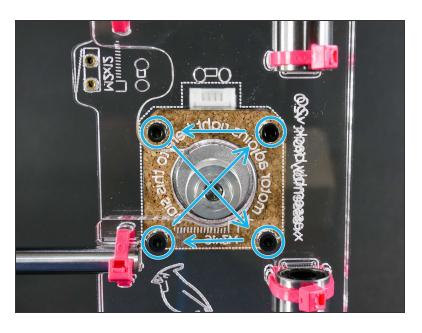






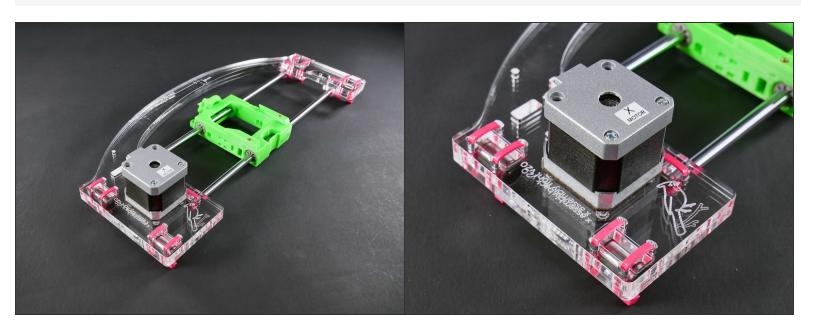
M3x16

Step 15 — [№] Technique: Cross Tightening



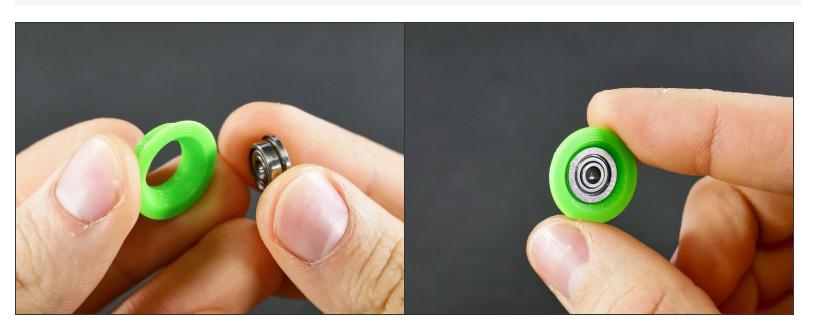
- Avoid alignment issues by tightening the screws little by little in a diagonal pattern.
- This is called "cross-tightening", and you should do it *every time** you have more than one screw to tighten.
- * even when you're not building a JellyBOX
- Fancy a ► VIDEO?

Step 16 — It's done!

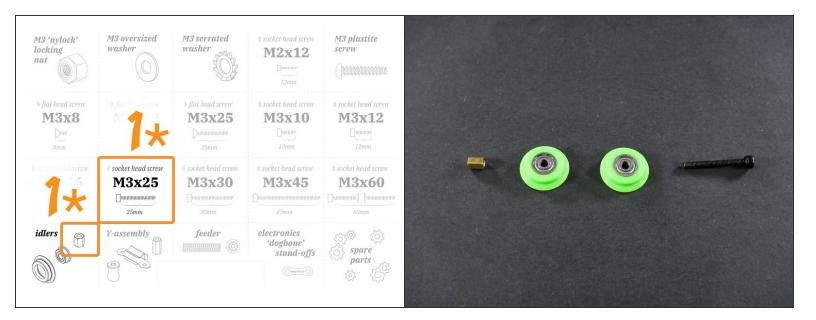


Step 17 — → Prep an Idler













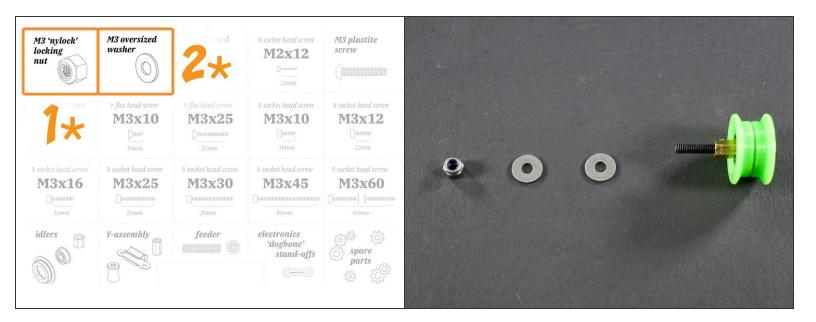


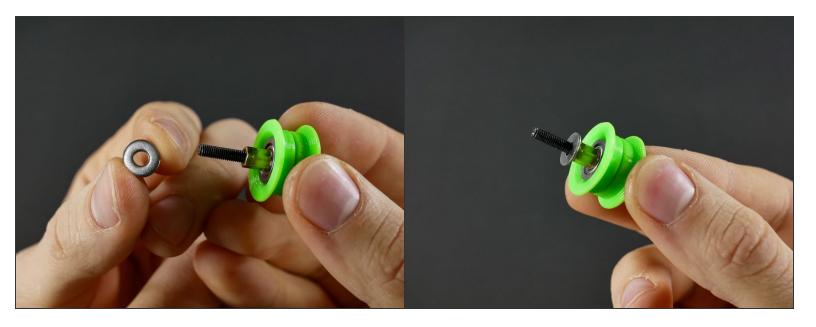
- Tighten well.
 - This is metal-on-metal tightening, so you do not have to be as gentle as usual.

Step 24 — Looking good!

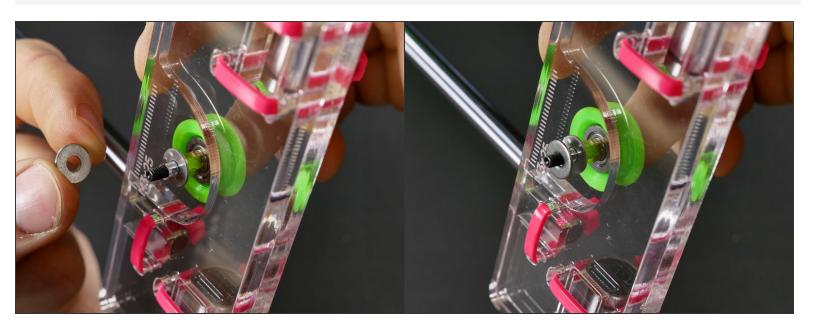


Step 25 — ↳ Install the X Idler

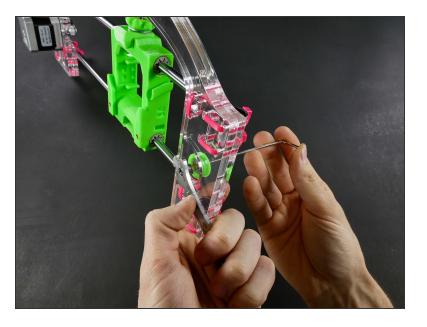








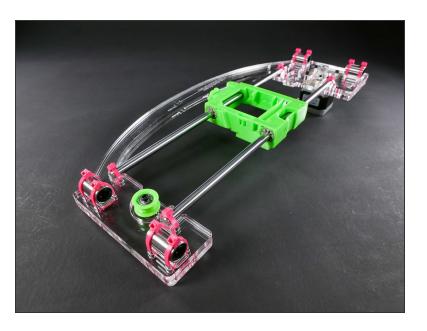






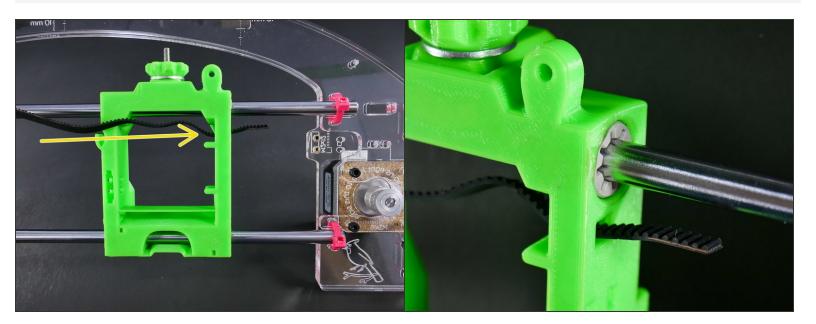


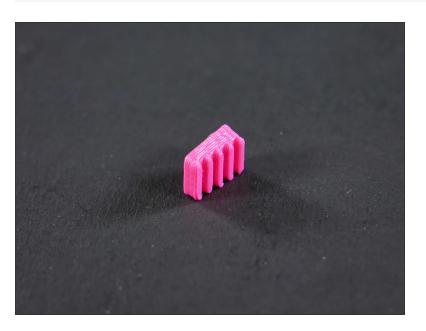
Step 32 — It's done!

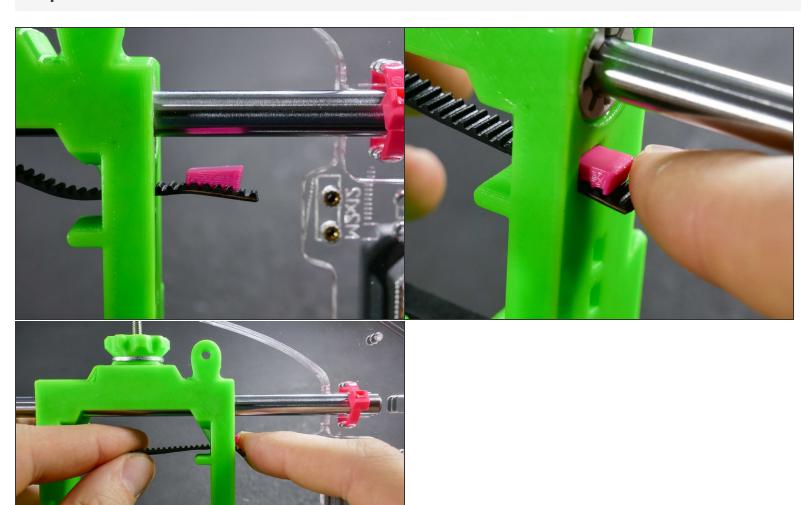


Step 33 — 4 X Belt





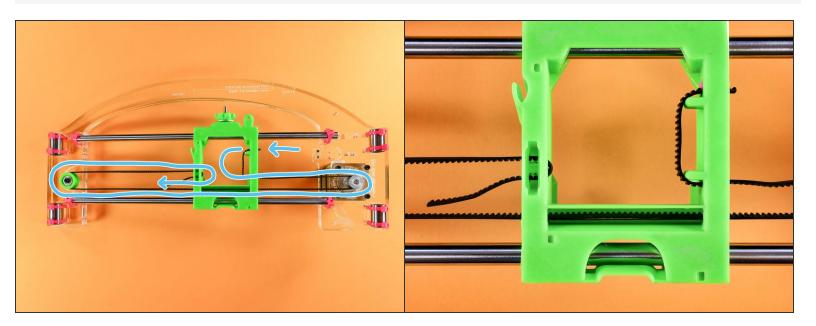




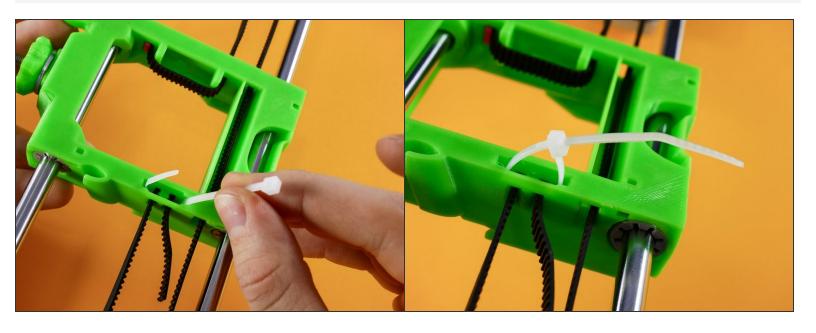
• The position of the wedge on the belt is not precise - you only need to make sure to the belt teeth into the wedge teeth.



You may cut off the excess if you wish.





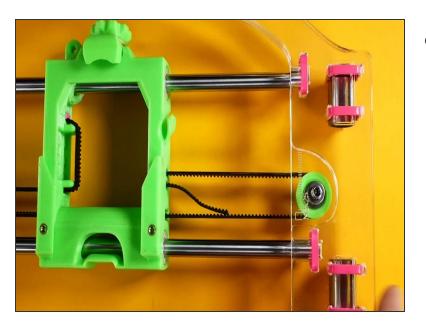


Step 41 — ▶ Video: Secure the X Belt (25s)



► Video: Secure the X Belt (25s)

Step 42 — ▶ Video: Clip the X Belt (35s)

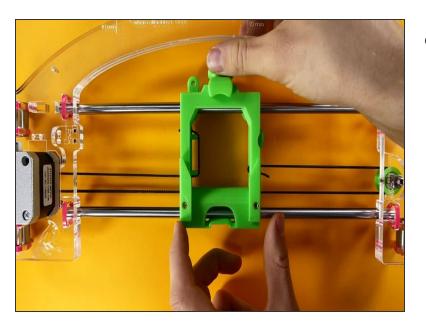


▶ Video: Clip the X Belt (35s)



Leave a bit less than a centimeter (3/8 inch) of the x belt intact in case you ever need to disor-re-assembly your JellyBOX.

Step 44 — ▶ Video: X Mechanical Checkpoint #1



► Video: X Mechanical Checkpoint #1