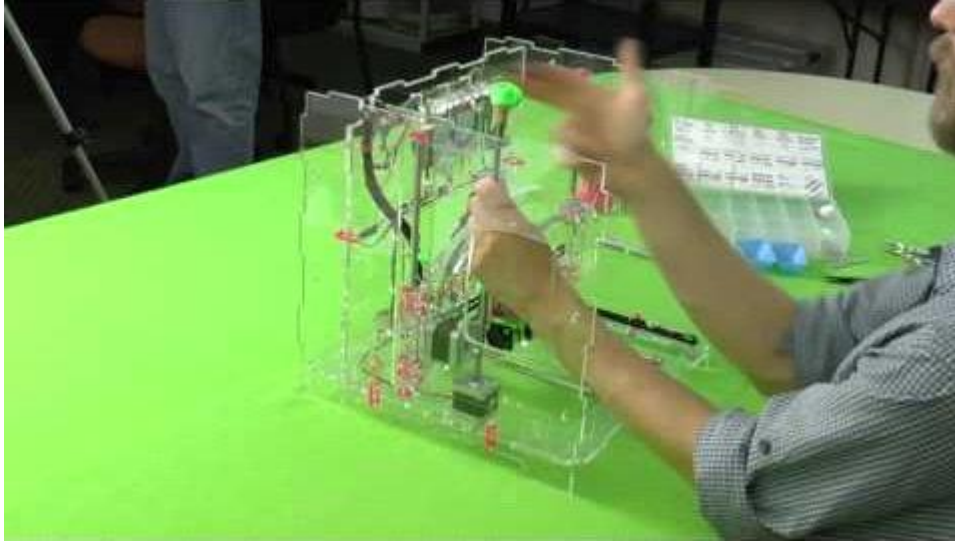


# #join ZX Coupler

[JellyBox Build: 19\\_ZX Coupler](#)

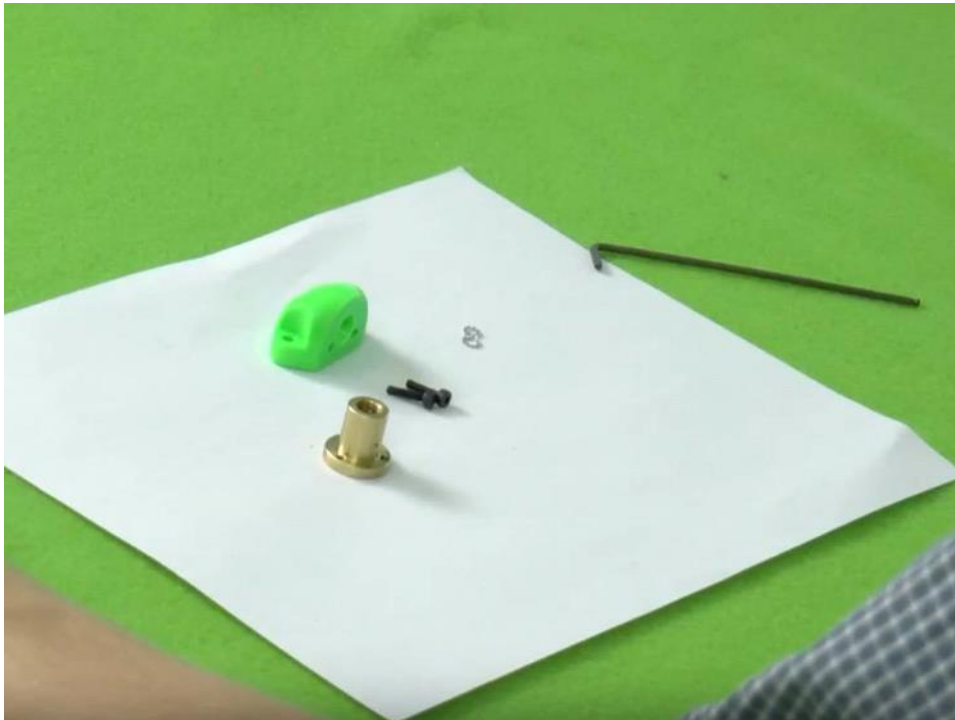


In this video, we connect the X and Z axes through the 'ZX coupler.'

***Why is this ZX coupler and not XZ coupler?***

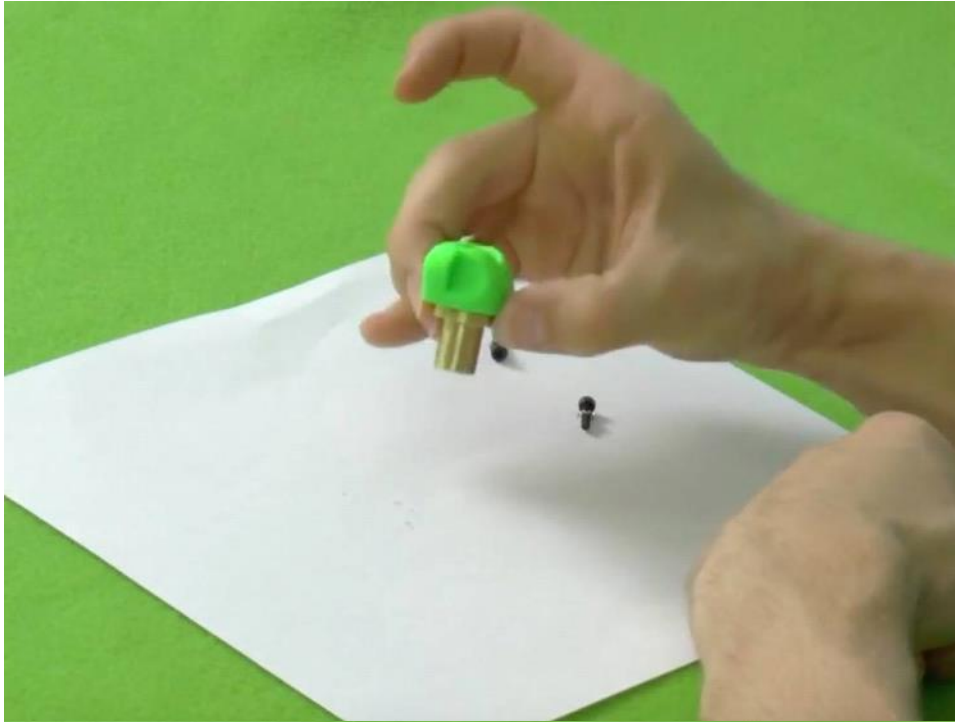
- ZX coupler is much easier to pronounce.

You'll Need:



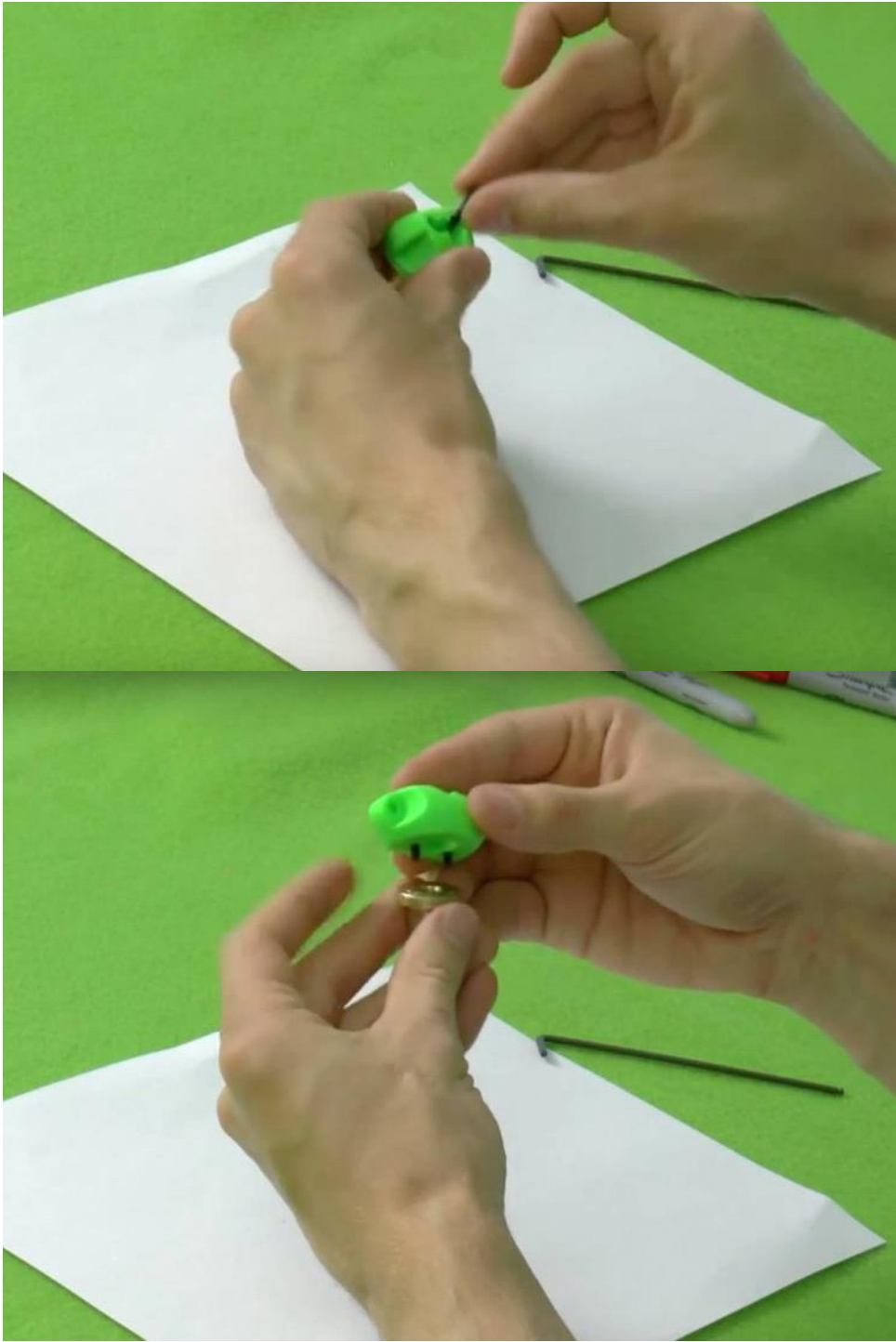
ZX coupler  
Trapezoidal flanged nut  
M3x 12 bolt (2)

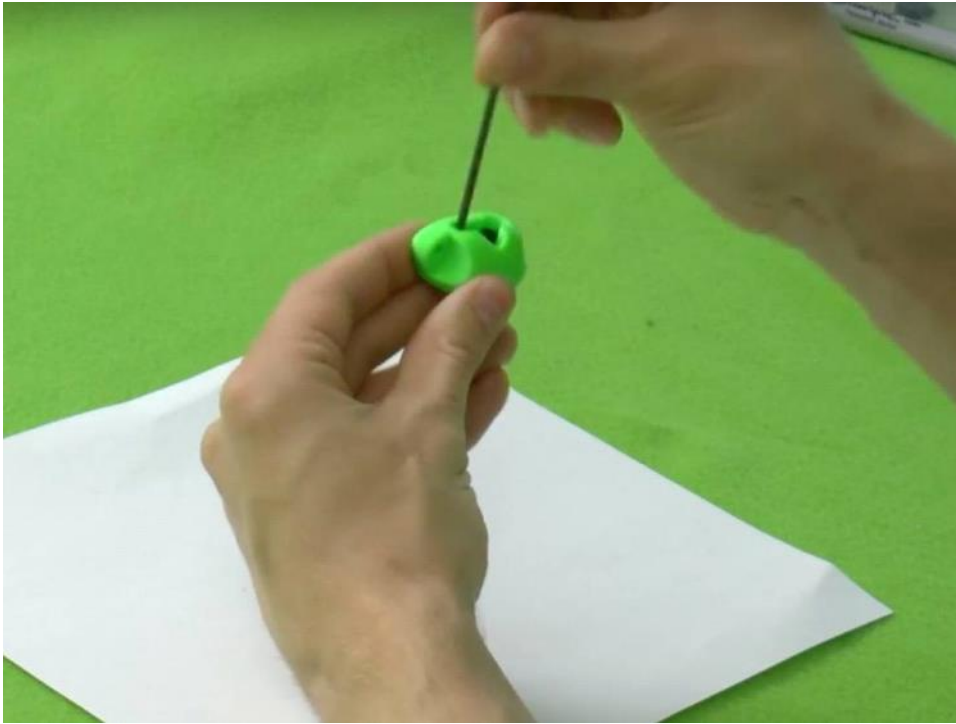
M3 serrated washer (2)  
M3 hex key



Title: Positioning the Trapezoidal Flanged Nut  
Align the holes in the flange of the nut with the bolt holes in the ZX coupler.

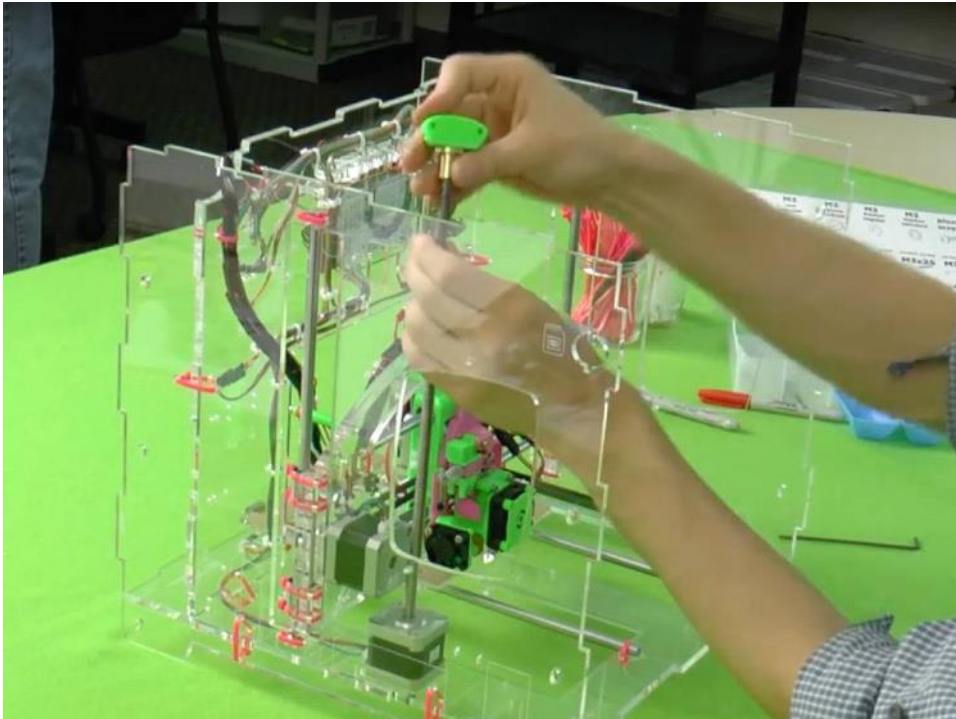
Title: Bolt the ZX Coupler Together

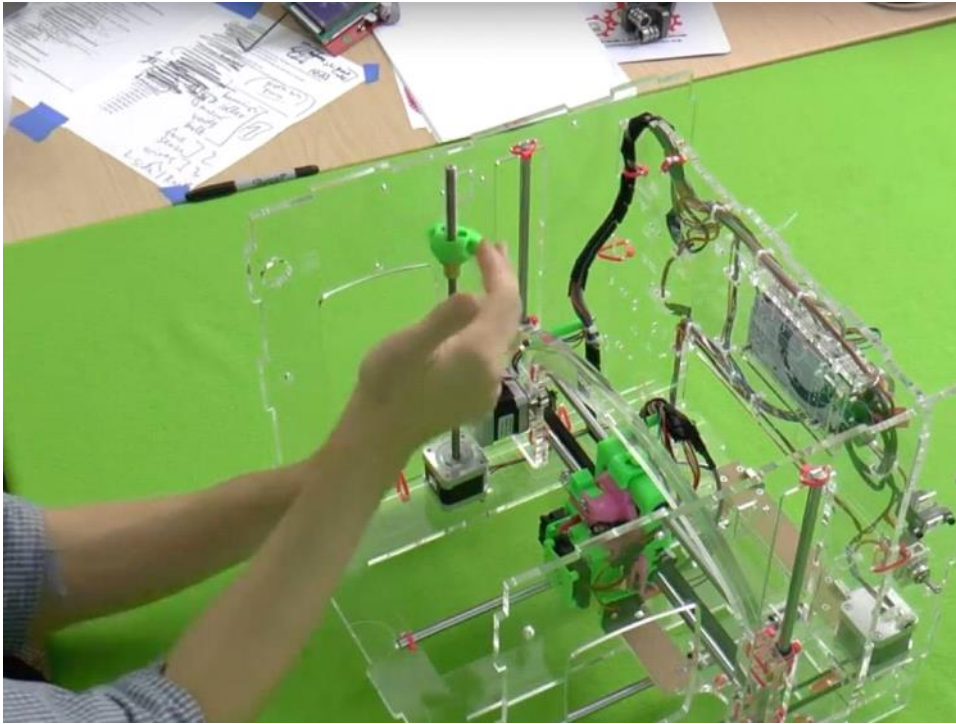




Place the washers on the bolts.  
Use the M3 hex key to screw in the bolts.

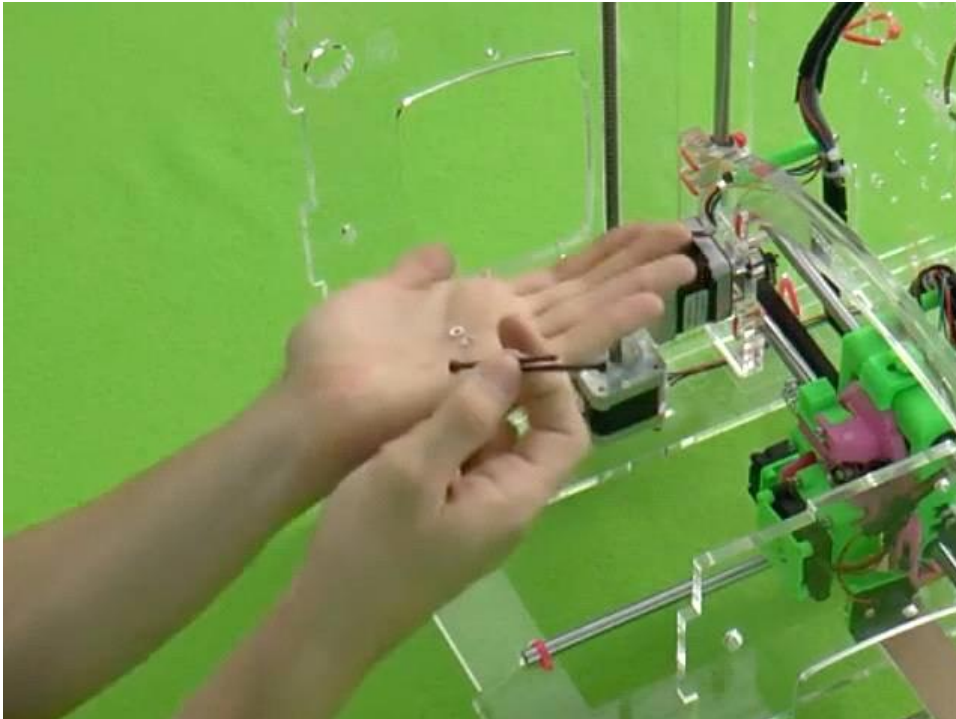
Title: Screw the ZX Coupler onto the Z Axis



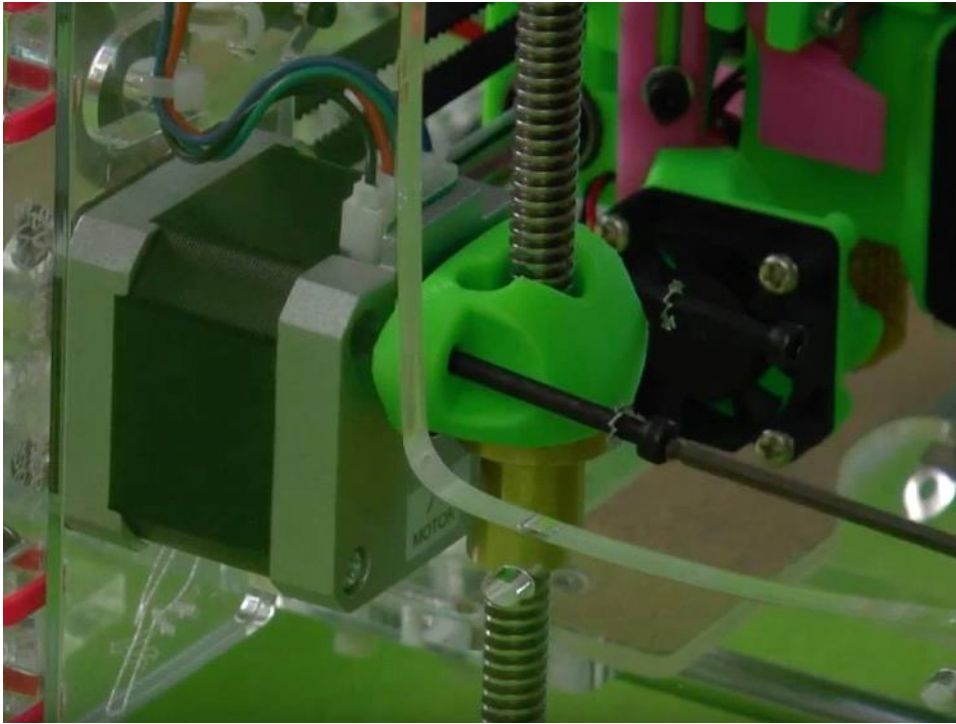


Place the ZX coupler on the Z axis leadscrew.  
Screw the coupler down until it's near the bottom.

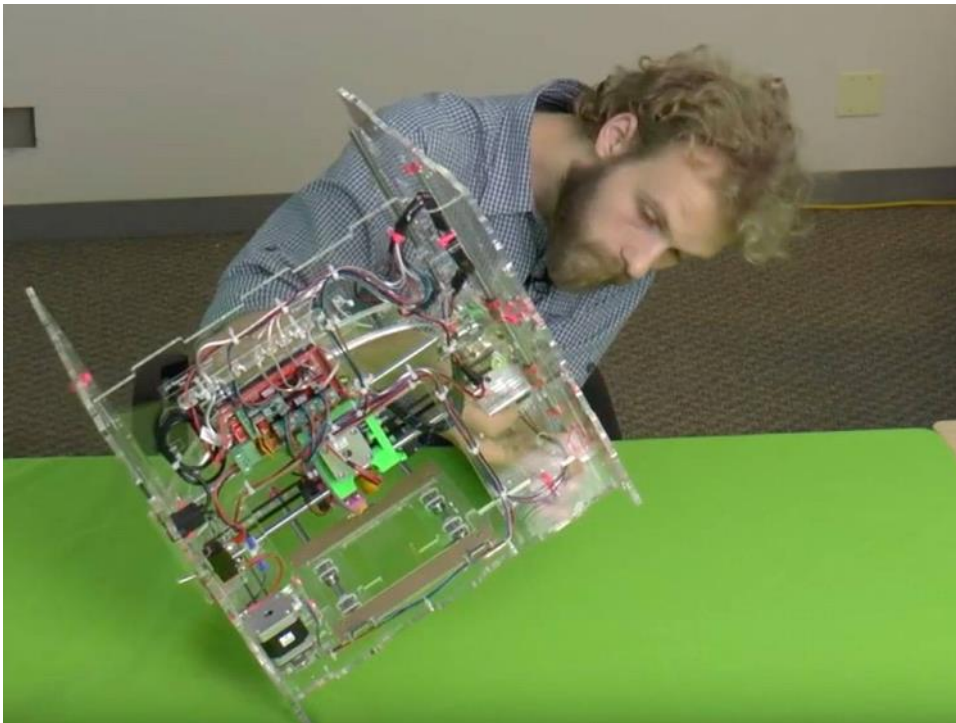
#### Title: Join the Z and X Axes



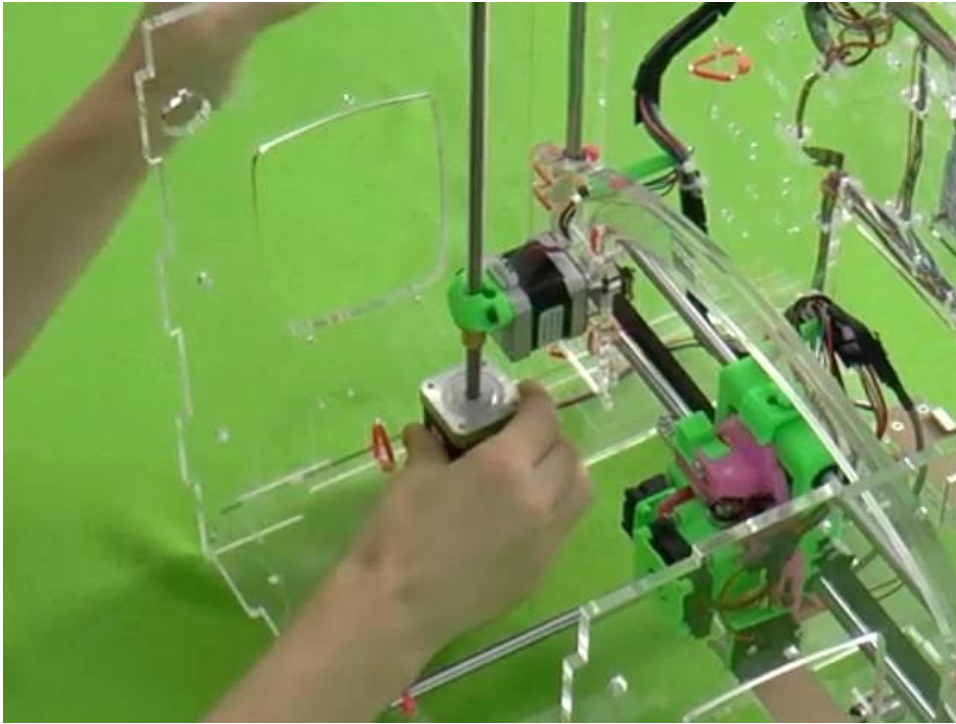
You'll Need:  
M3x40 bolts (2)  
M3 serrated washers (2)  
M3 hex key



Put the serrated washers onto the bolts.  
Thread the bolts into the top two holes on the X motor.  
**Leave the bolts loose at this stage.**



Loosen the Z Motor  
Loosen the bolts holding the Z motor.  
This lets all the parts self align.



Tighten the Bolts

Use the M3 hex key to tighten the ZX coupler to the X motor.

! Leave the bolts holding the Z motor to the Bottom **loose** - we'll tighten these **later** as a **part of self-alignment procedure**.