

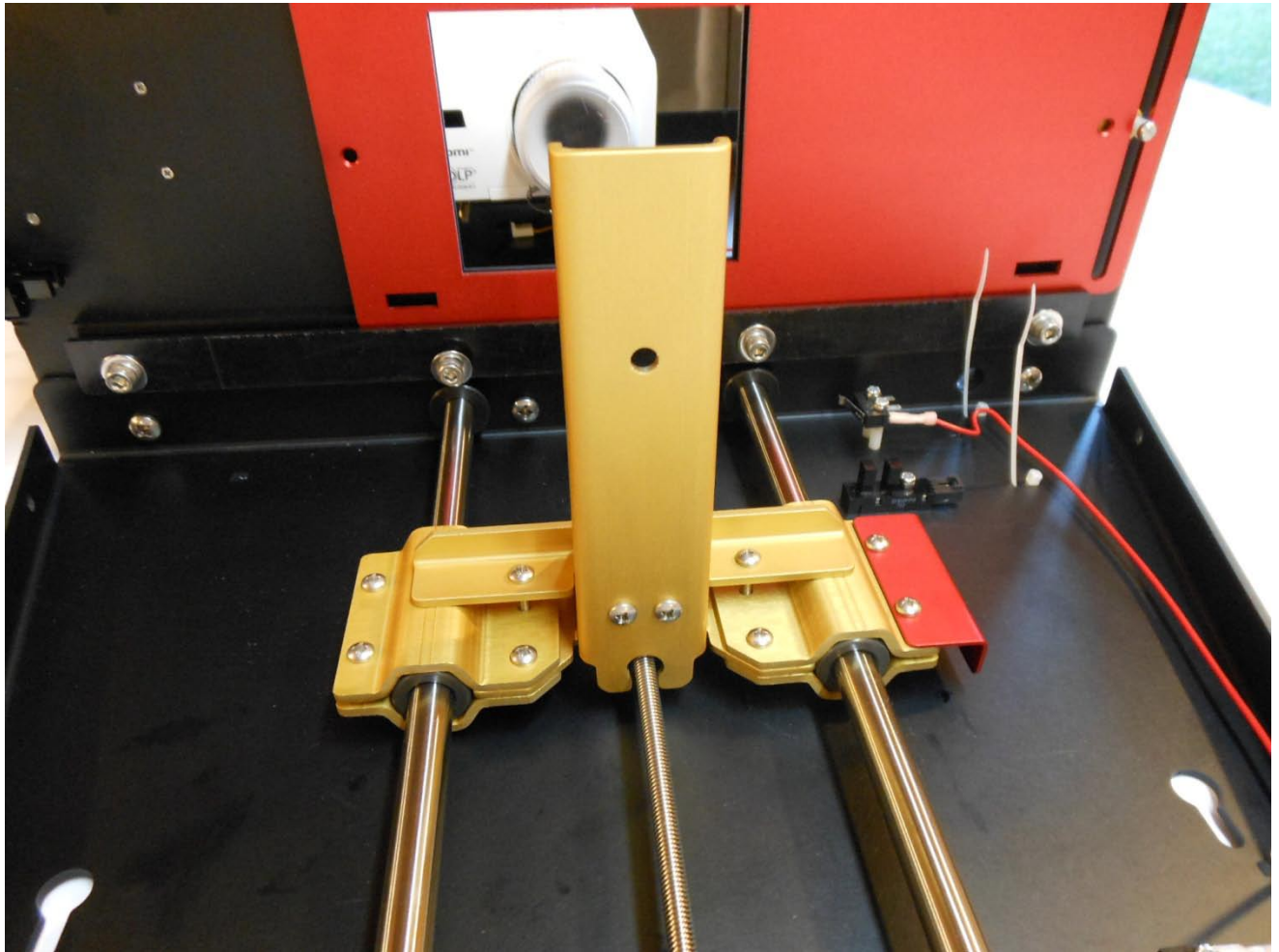


The B9Creator™

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Visual Assembly Guide, v1.1

Step 5 - Final Assembly (1 of 2)

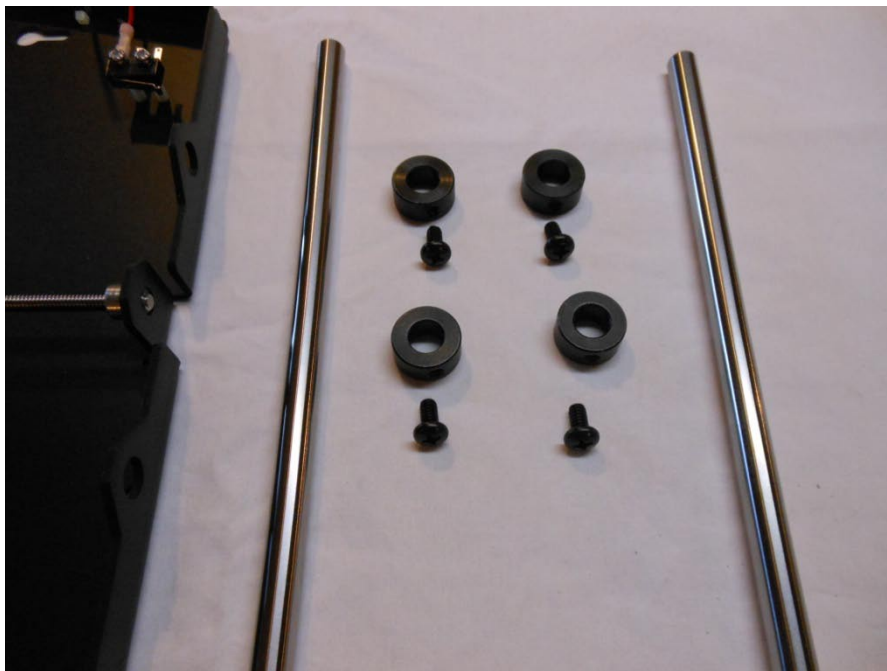


Completed Assembly (Mating the Projector Support, X & Z Axis assemblies)

Mounting Z Arm to the ZA-A Assembly



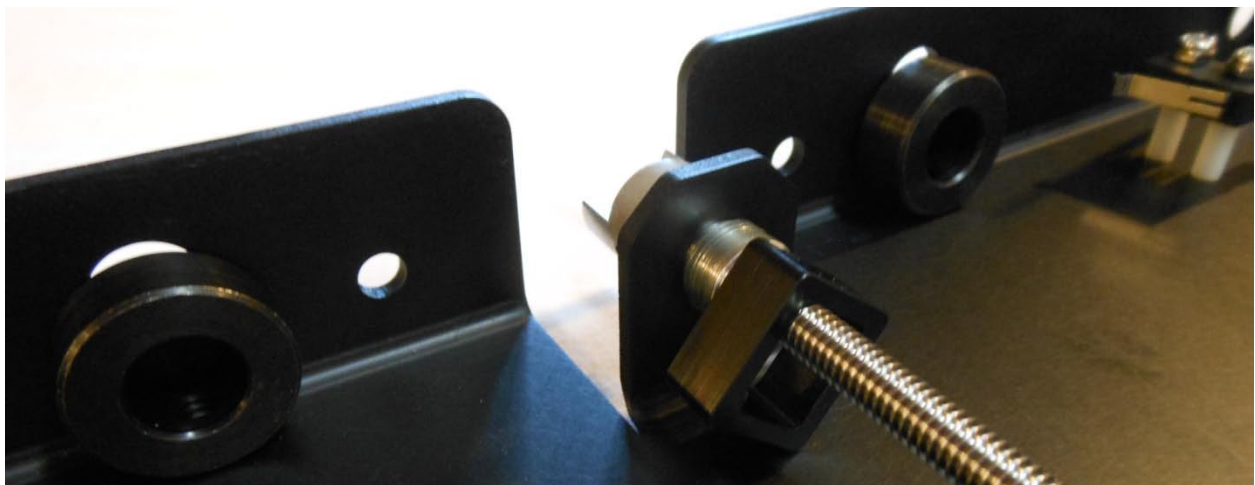
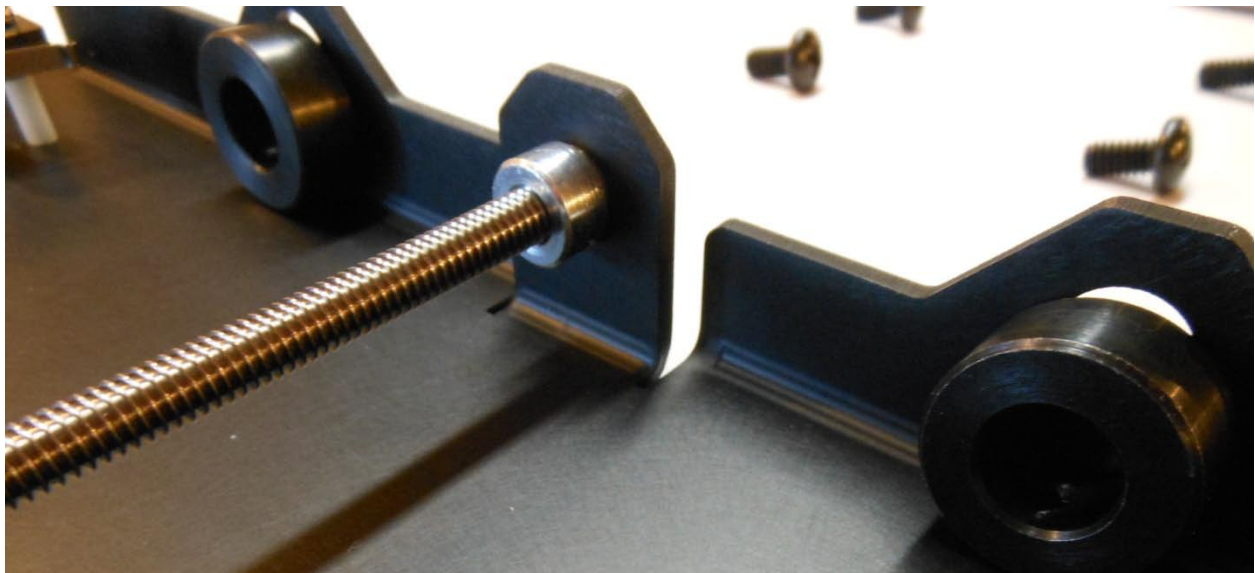
Locate the four linear guide collars, remove and discard their set screws.

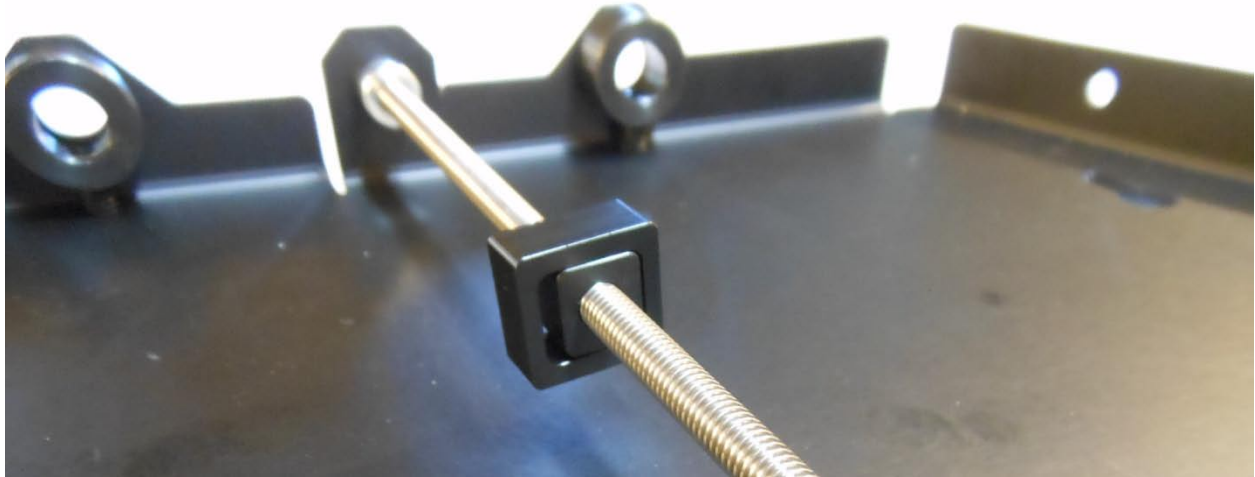


Linear guides and locking collars. Clean and oil the guides with a light weight machine oil.

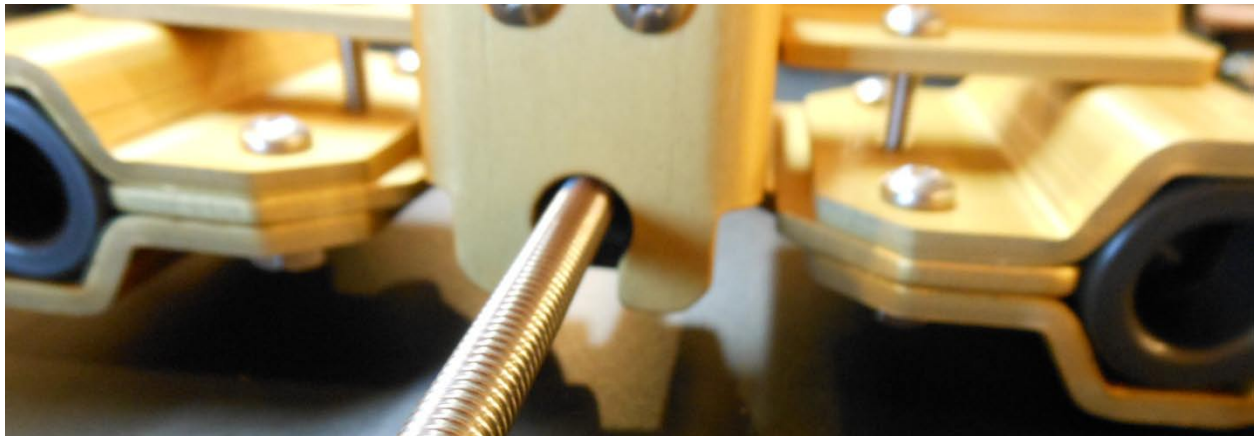
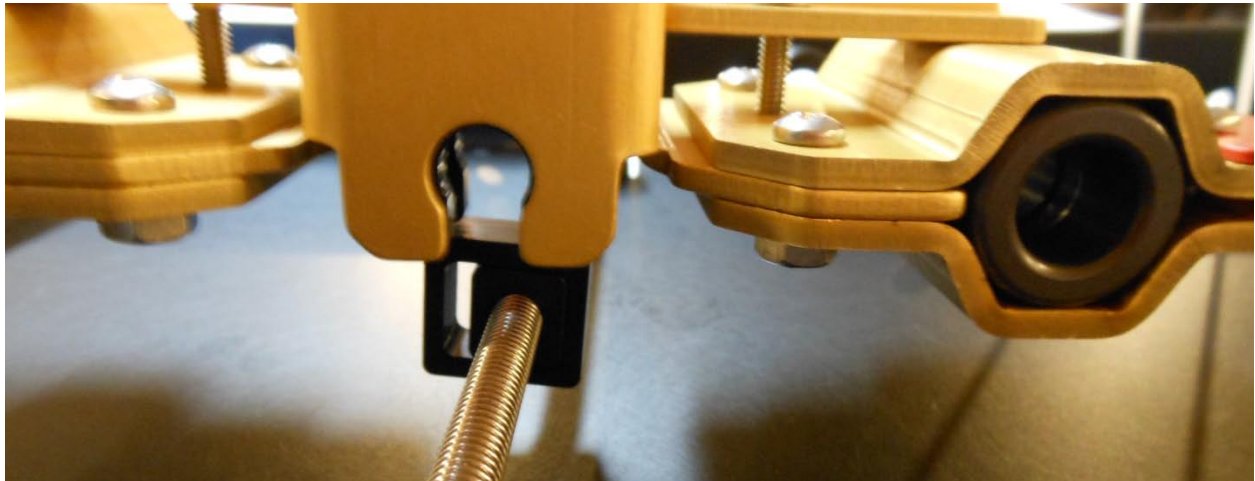


Insert the screw from the backside of the ZA-A assembly. Screw them (just a few threads) into the collars.

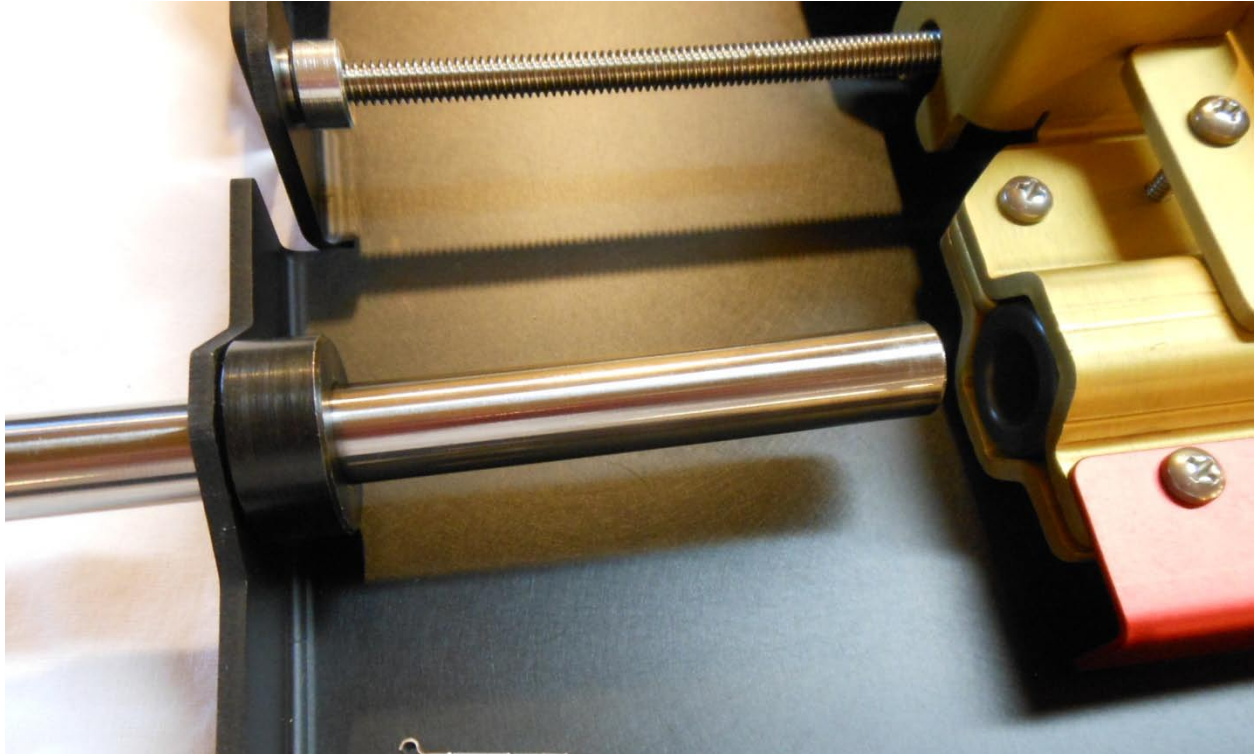




Align the Z Decoupler Frame over the nut as shown. NOTE: The frame should easily slide "side to side" on the nut but with almost no "up down" freedom.



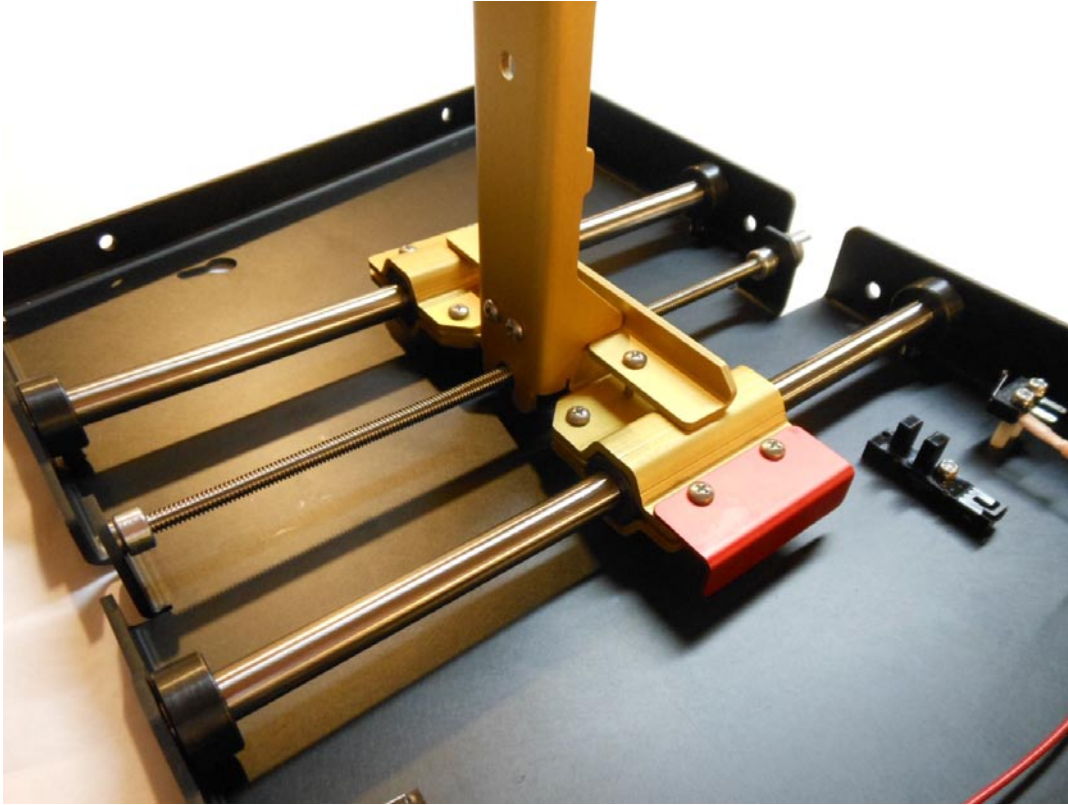
Gently place the ZA-B assembly over the Z Decoupler Frame, engaging the Z Decoupler Mount as shown.



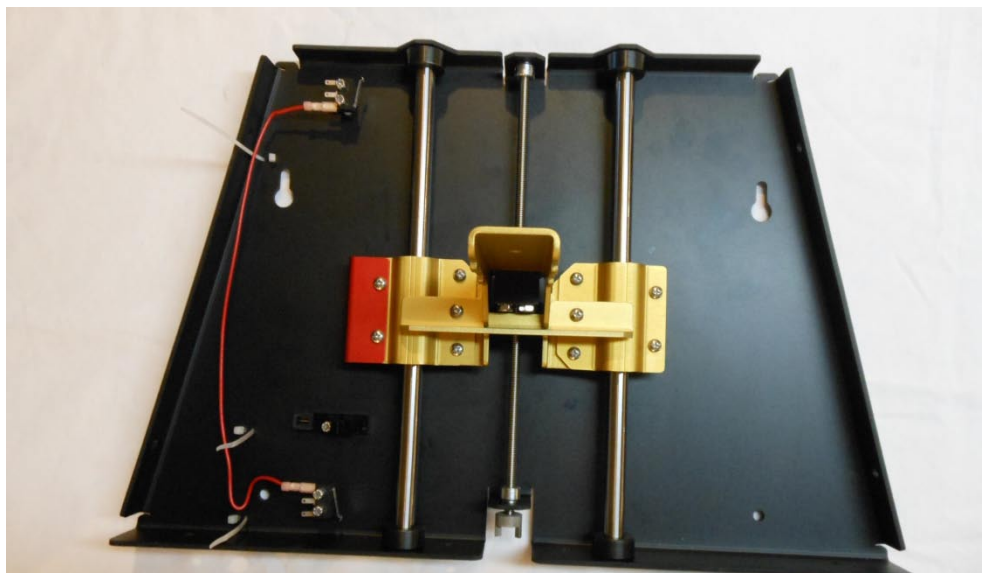
Insert the first linear guide rod.



Once the rod is flush with the top and bottom opening, tight the upper and lower collar locks to fix it in place.



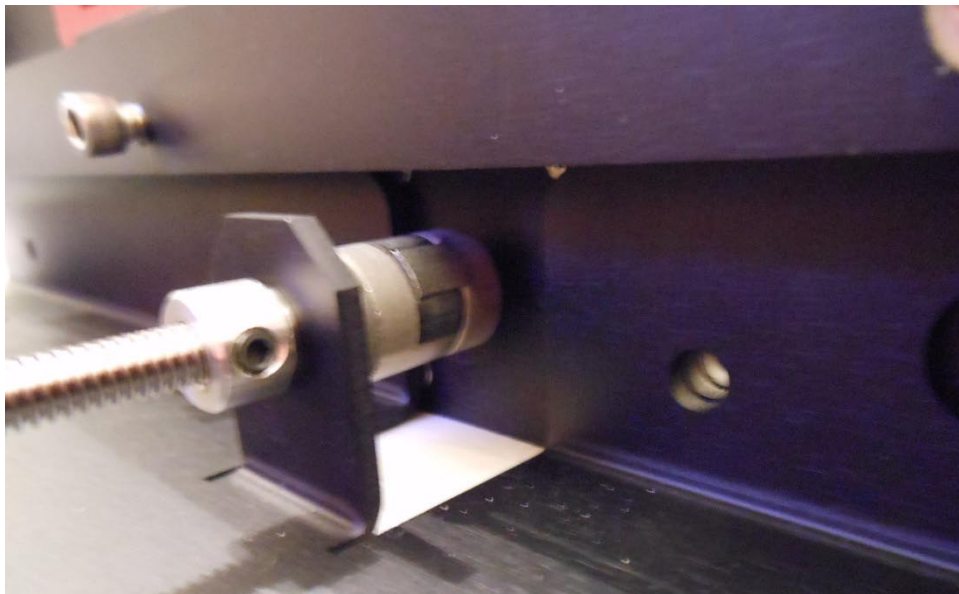
Repeat on the other side. **IMPORTANT!** Turn the lead screw by hand to ensure the table arm moves easily and smoothly throughout the entire range. If movement seems to "stick", etc. make sure the linear bearings and lead screw nut are lubricated with lightweight machine oil. Also, you may need to loosen the 8 ZA-A assembly screws to allow the table arm fixture to "relax" and better align with the rods. Retighten the inner 6 screws first and then the outer 4 screws. Do not over tighten the outer four screws, just do so enough to secure the 4 linear bearings are trapped. This is a critical step in ensuring your machine prints smoothly in the z axis without unwanted "banding artifacts" caused by sticking, etc.



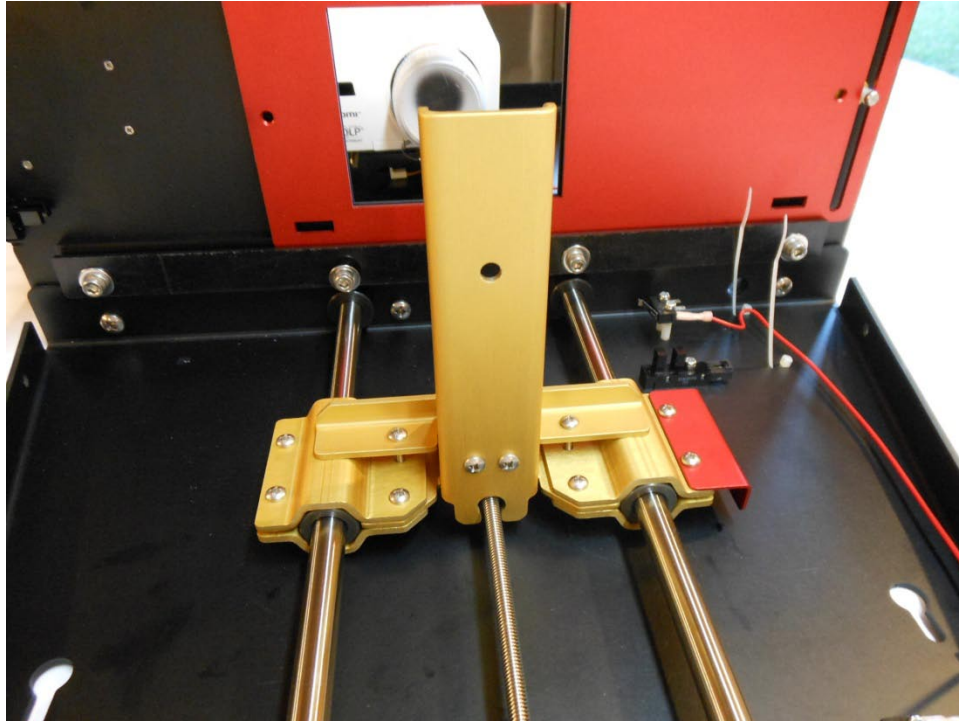
Mating the PS, XA and ZA Assemblies



Once aligned, the ZA, XA & PS assemblies are secured using the SA15 hardware.

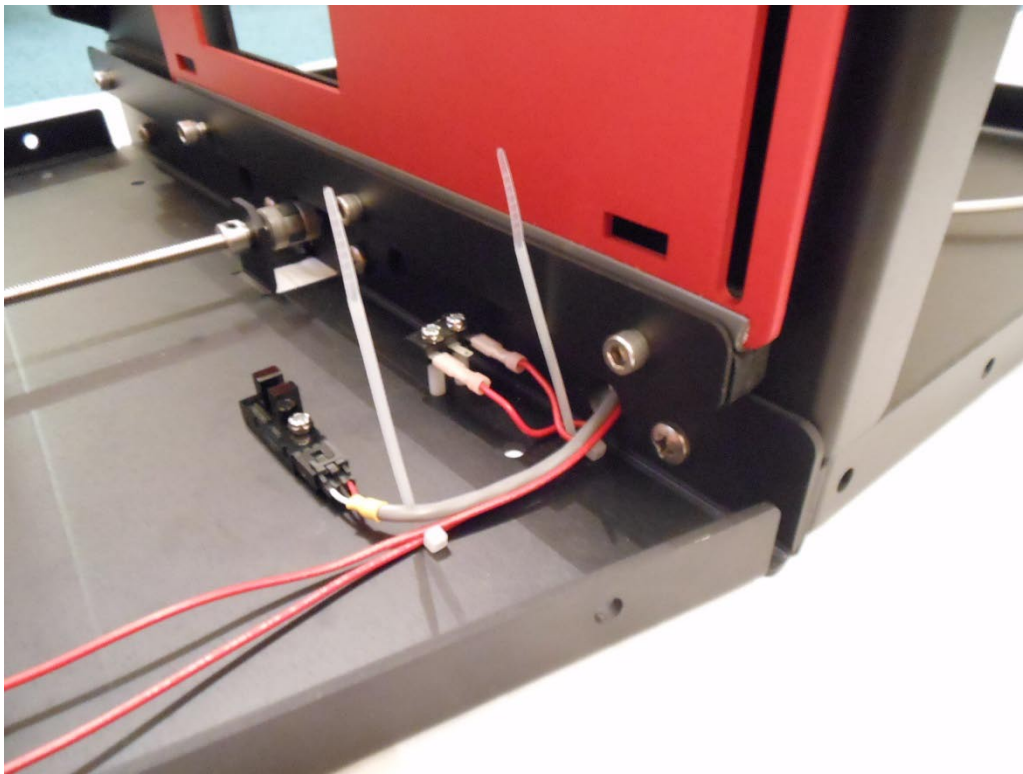


When aligning the three assemblies ensure the Z Axis Stepper Motor mates correctly with the Z Axis Lead Screw.

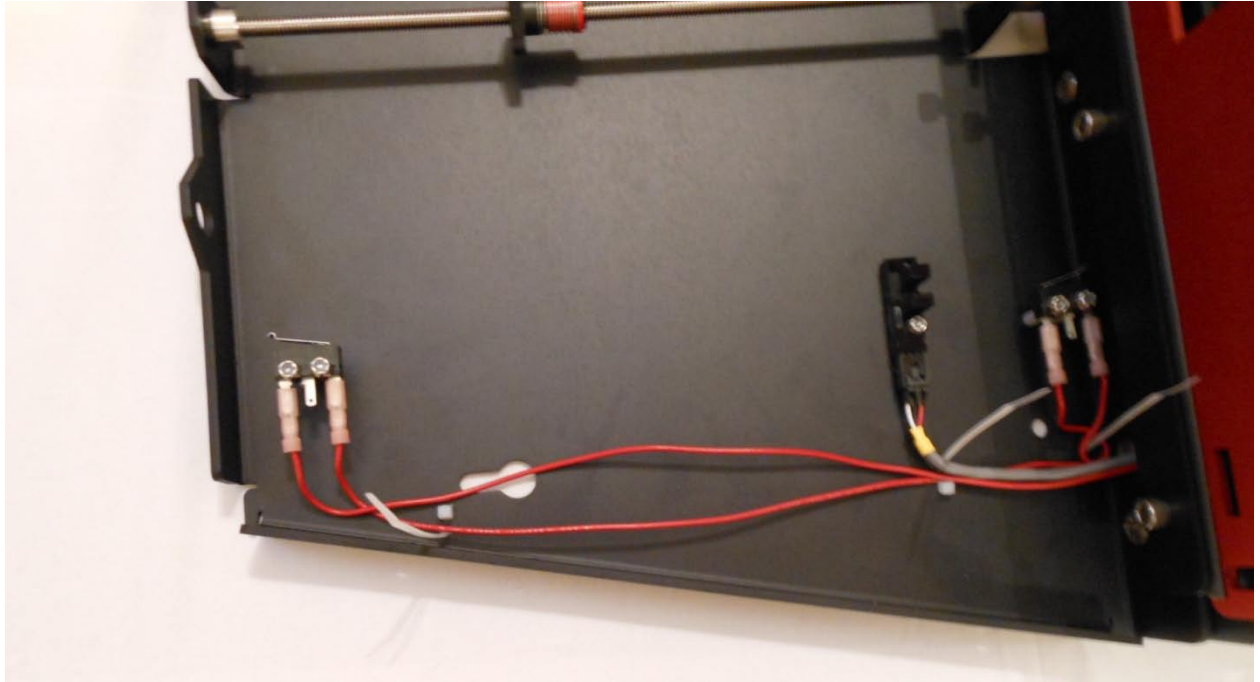


Here you can see the four SA15 screws that pass through ZA, XA and into the PS assembly.

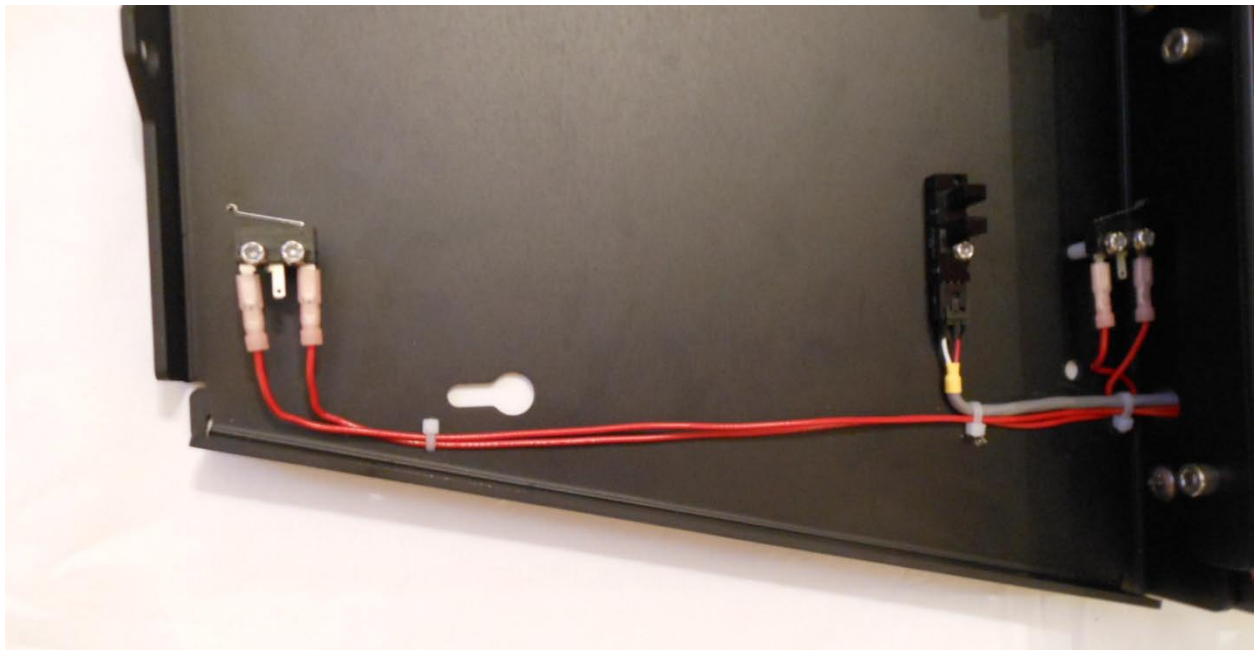
The XA Power and home sensor wires are fed through the access hole to the ZA area.



Connect the Build Table Home sensor and the lower limit switch wiring.

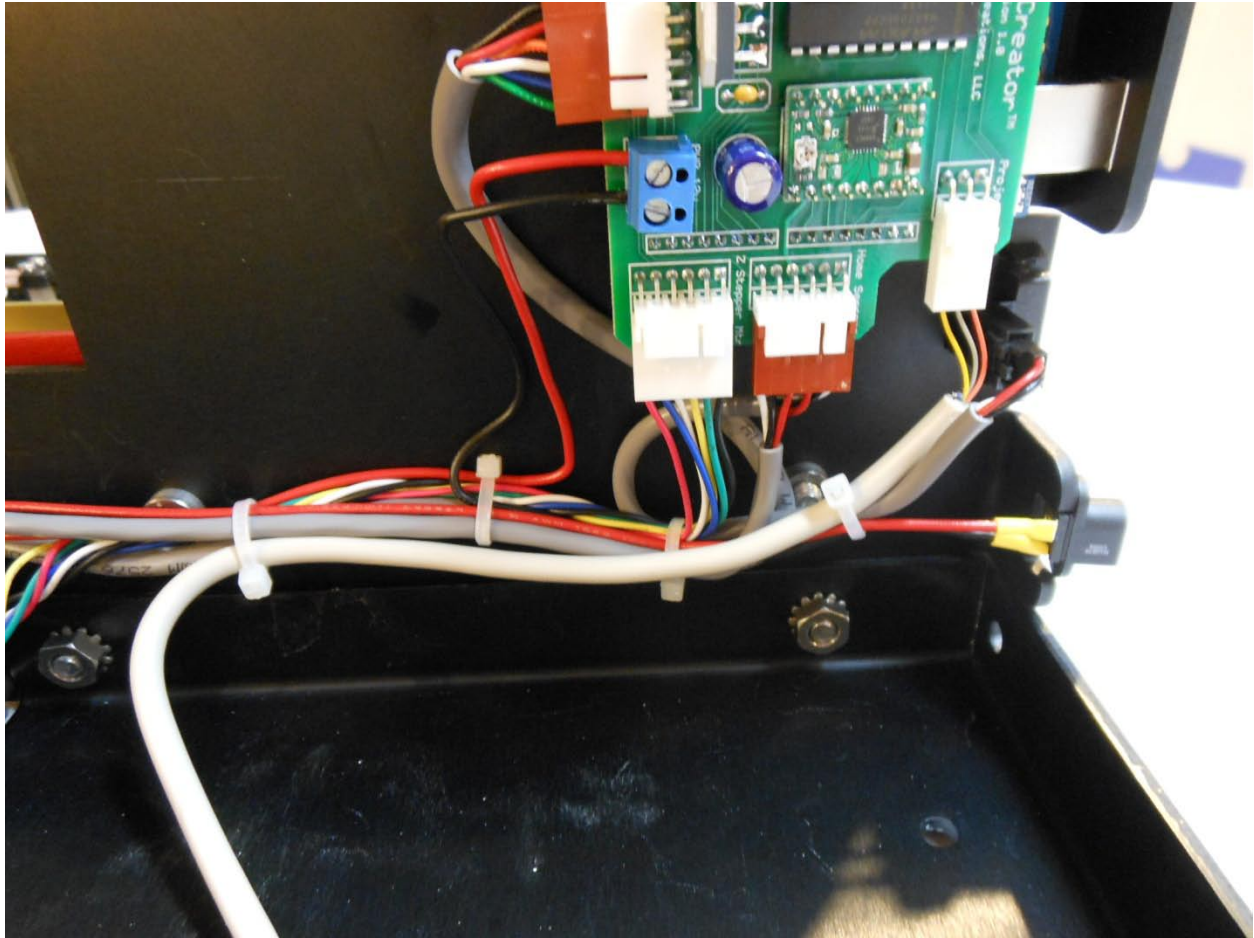


Top limit switch connected.



Zip ties secured and excess clipped off.

Connect the Projector Control Wire Harness



Finish by connecting the Projector Control cable to the B9Creator Shield as shown.

Secure cables in place with remaining zip ties.

Finished! (Only one step left!)