

003 – ASSEMBLING BASE FRAME

Take one ALUMINIUM PROFILE of 450 mm (17.7") out of the box.



Take two ALUMINIUM PROFILES of 416 mm (16.4") out of the box.

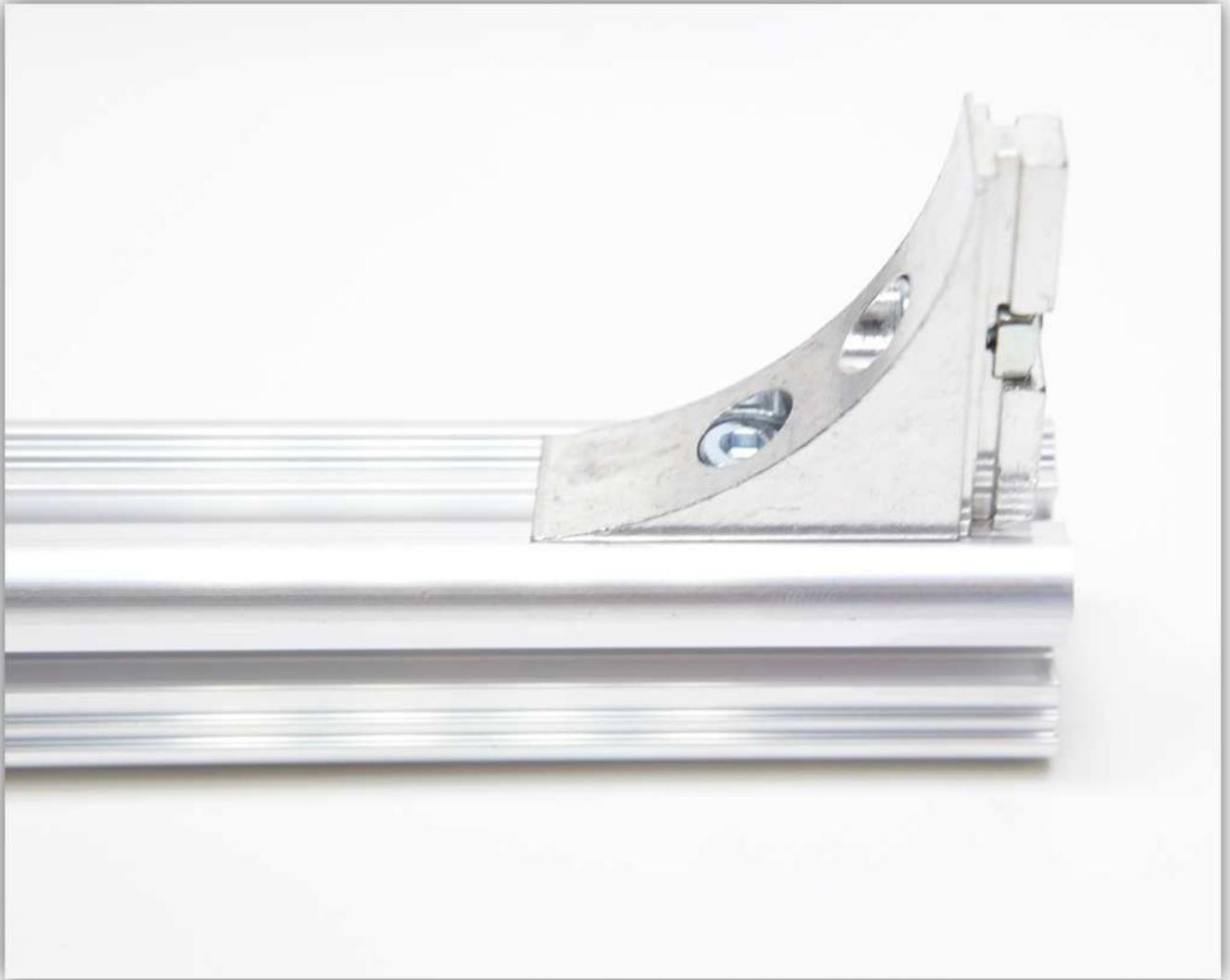


Take the bag labelled with 14 out of the box. You should have 14 ANGULAR MOUNTS:



Slide 2 of these ANGULAR MOUNTS in each side of the ALUMINIUM PROFILE of 450 mm (17.7").





Slide an ALUMINIUM PROFILE of 416 mm (16.4") on each side of the ALUMINIUM PROFILE of 450 mm (17.7").



Tighten all the bolts firmly and make sure all angles are 90° and all ALUMINIUM PROFILES are flush.



You should have this:



Take the bag labelled with 15 out of the box. You should have these parts:



Take the bag labelled with 16 out of the box. You should have a bag with 34 square nuts:



There should already be an M5 nut on the bolt. Screw a regular M5 nut, an M5 flat washer and a square M5 nut on the foot. Repeat this 4 times. **Do not tighten these nuts.**



Slide these assemblies into the ends of each 416 mm (16.4") ALUMINIUM PROFILE.



Tighten the nuts firmly as in the picture below:



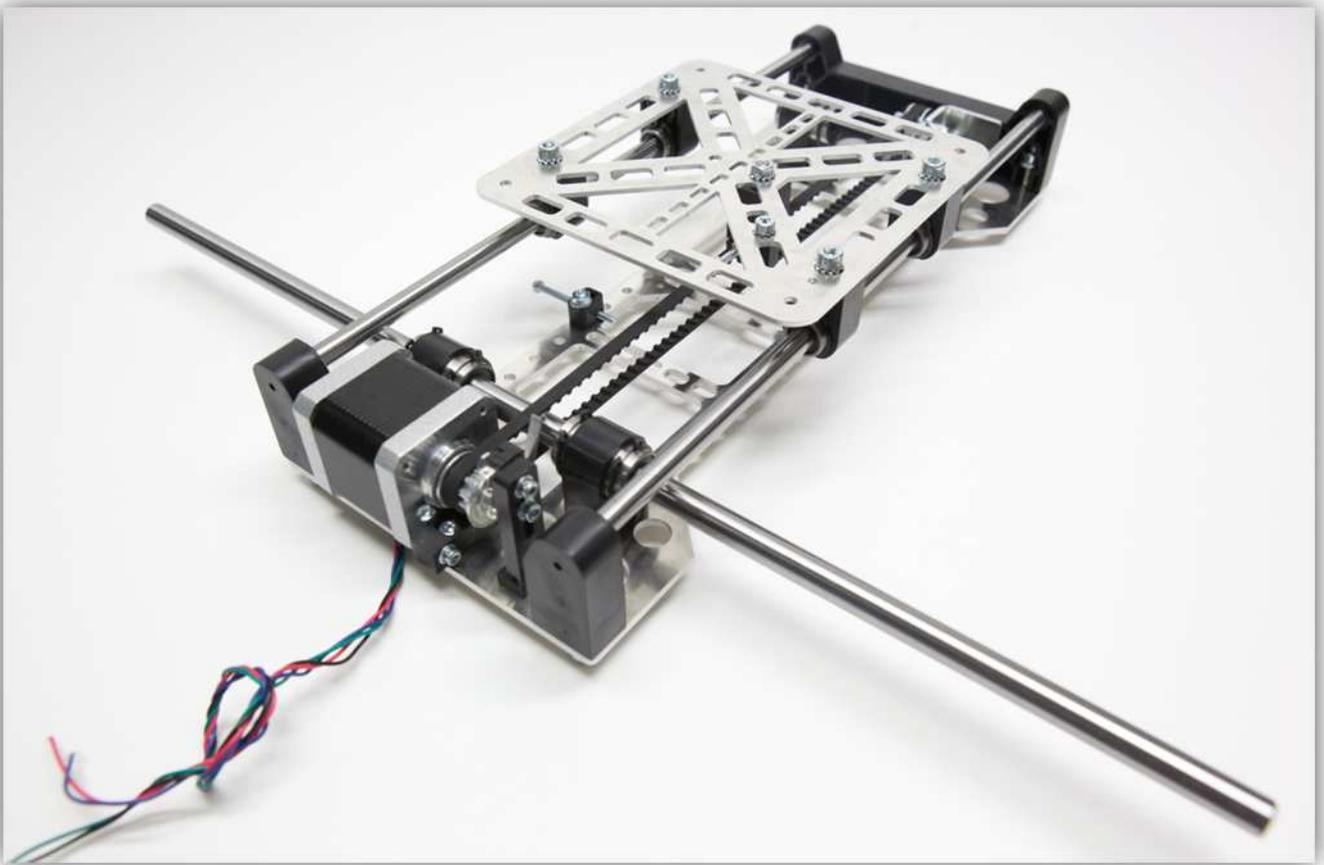
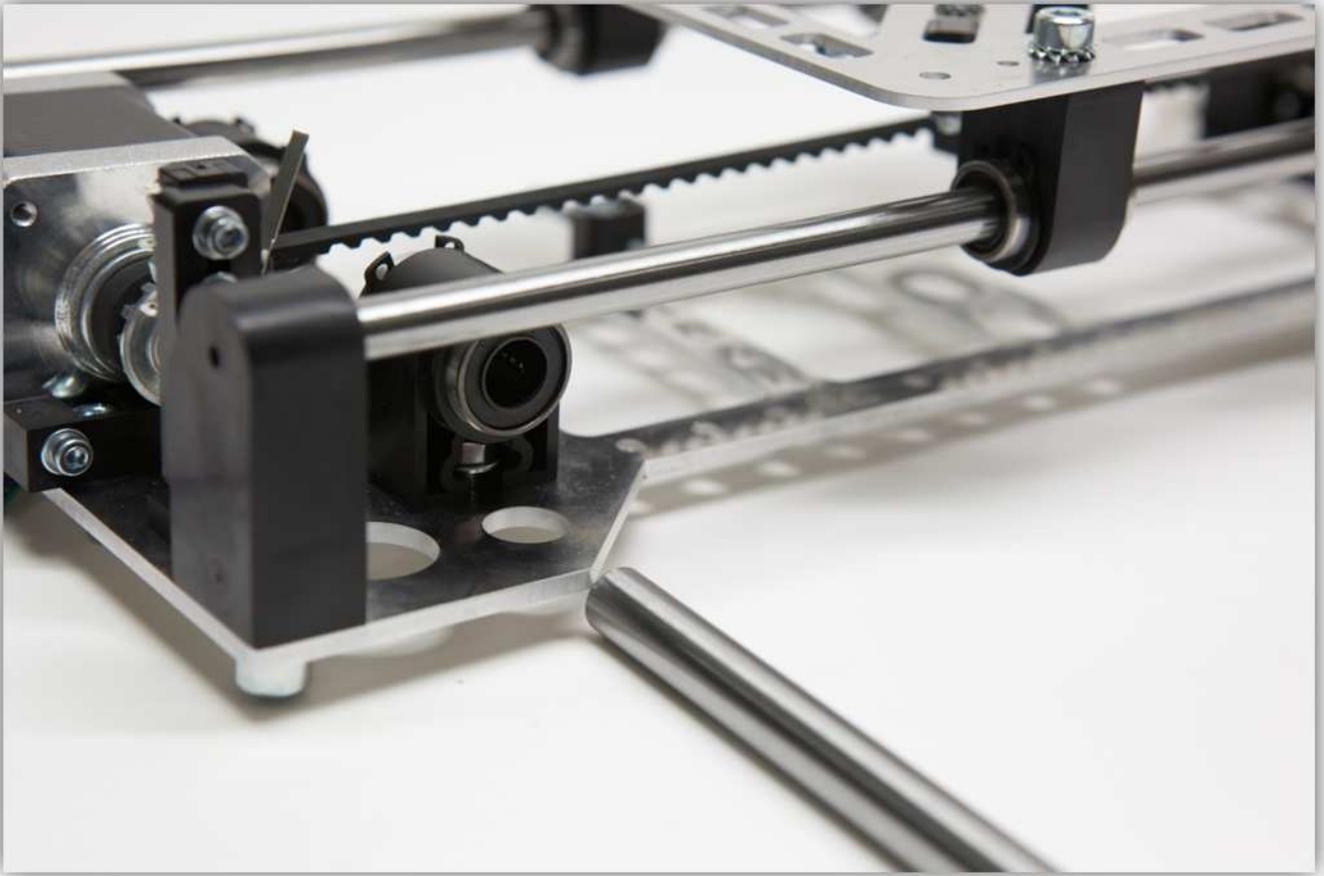
The frame should look like this:

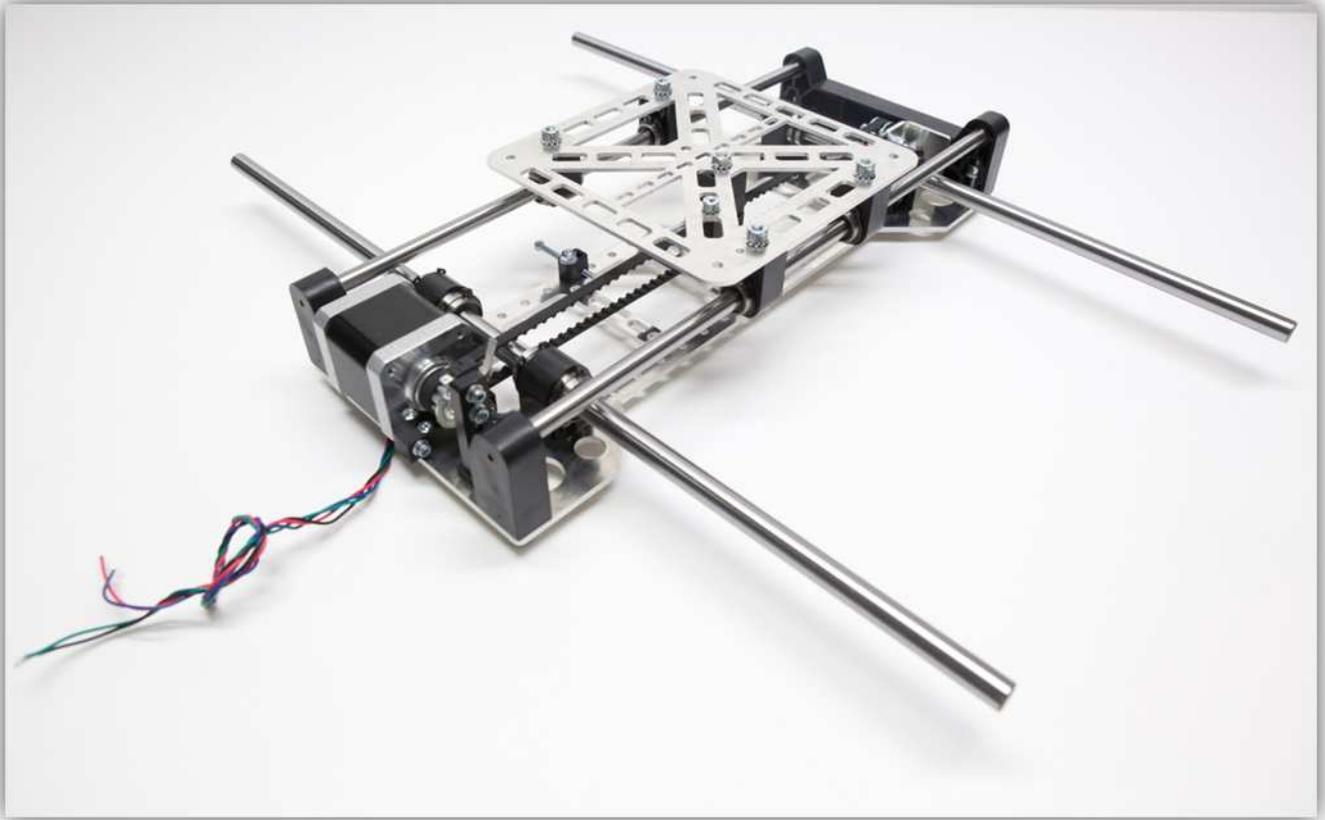


Take two rods out of the bag labelled with 7. These rods should have a diameter of 10 mm (0.39") and a length of 450 mm (17.7").



Slide the two rods into the linear bearings as shown in the pictures below:

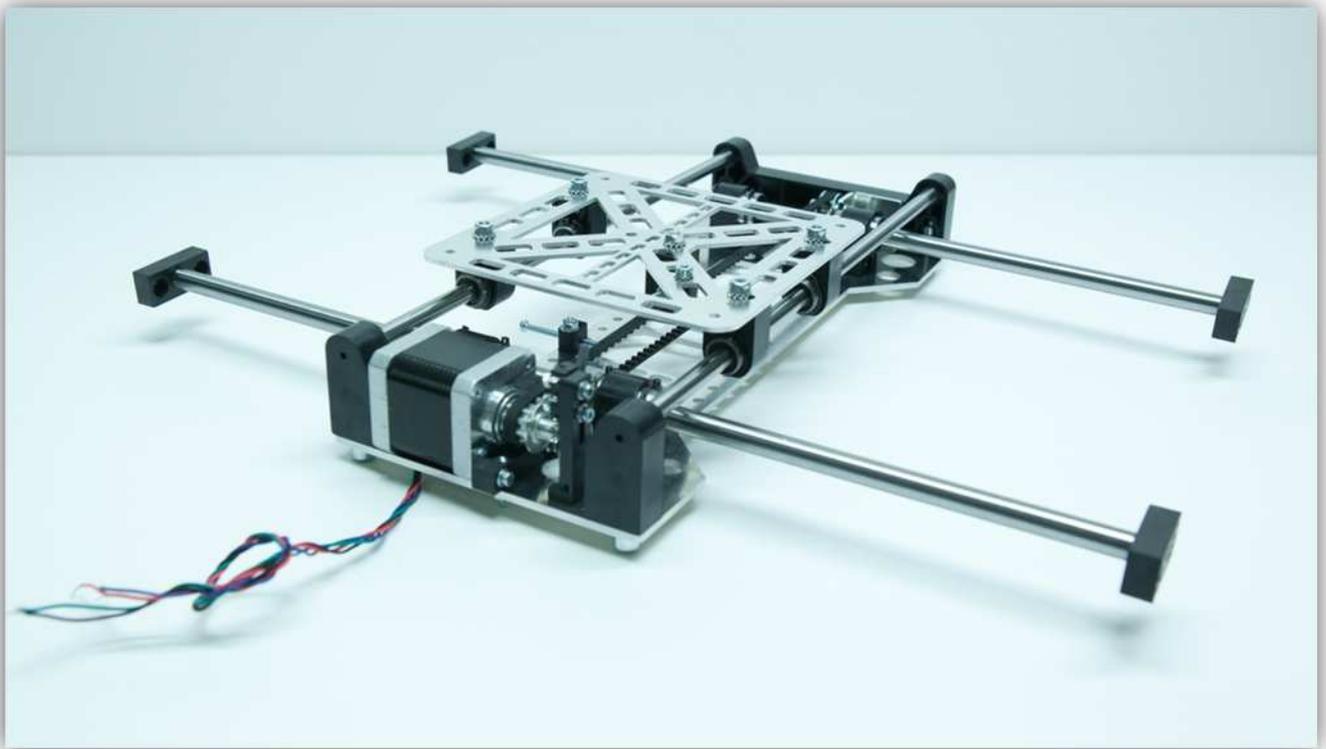
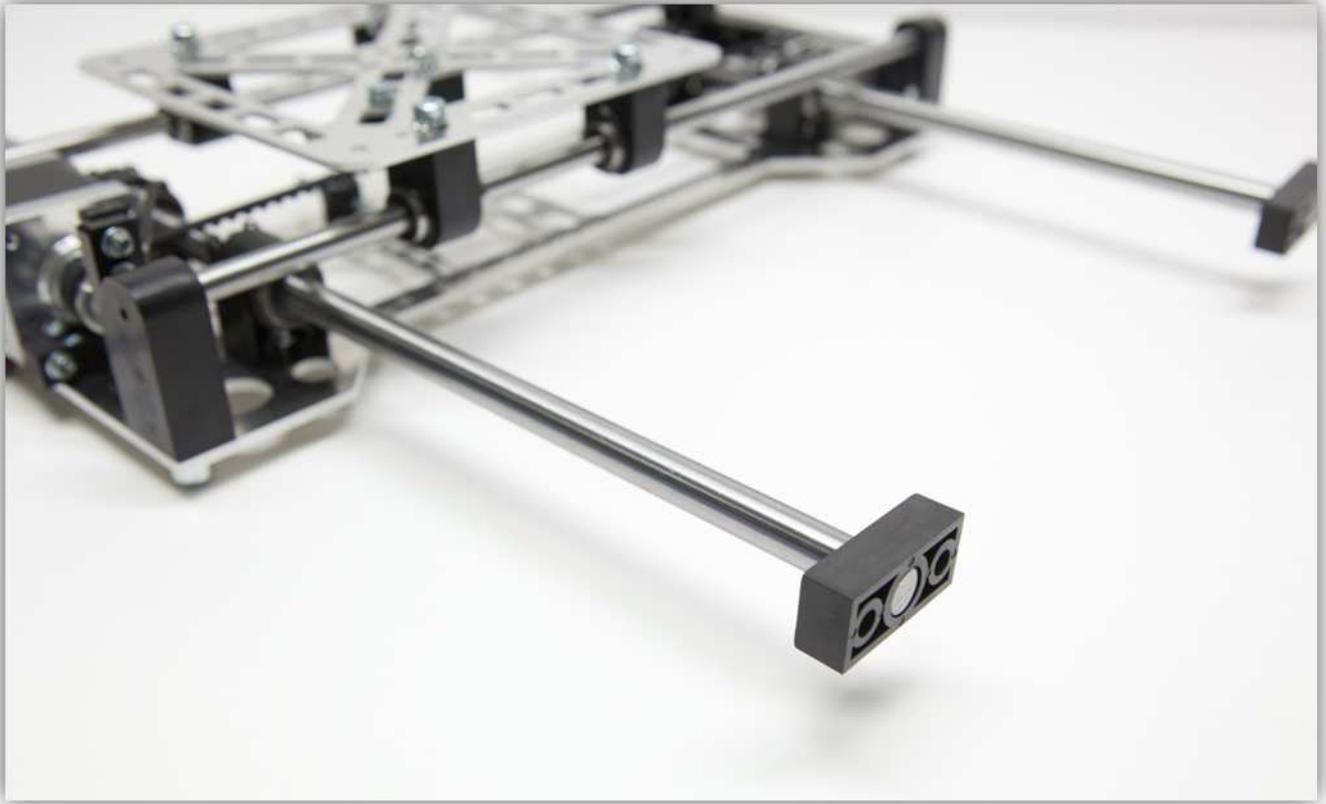




Now take 4 pieces as shown in the picture below out of the bag containing the plastic parts (ROD CLAMP X):



Slide the 4 ROD CLAMP X pieces over the ends of each rod.



Take all the M5 bolts out of the bag labelled with 17.



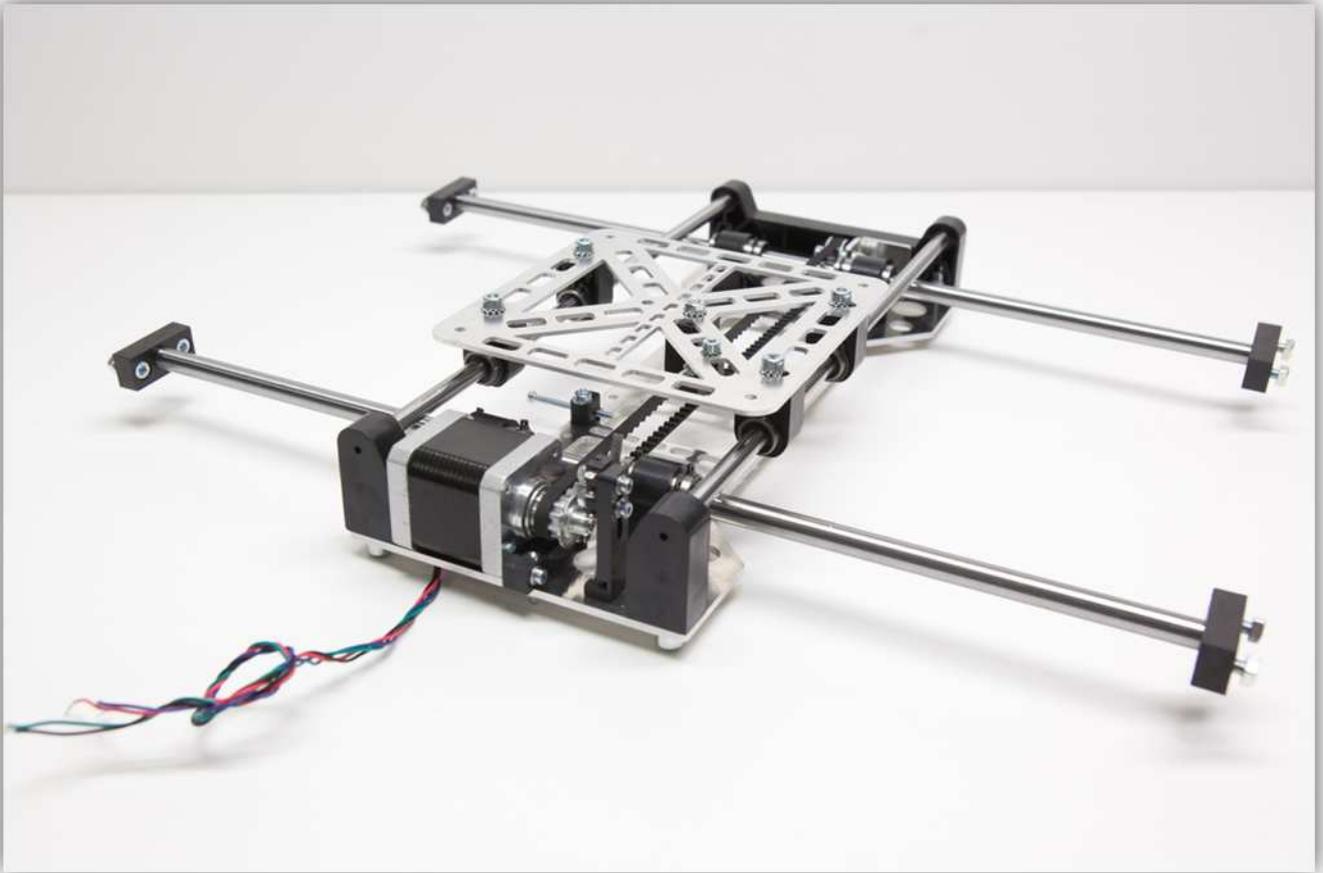
Insert these bolts in each of the ROD CLAMP X pieces as follows:



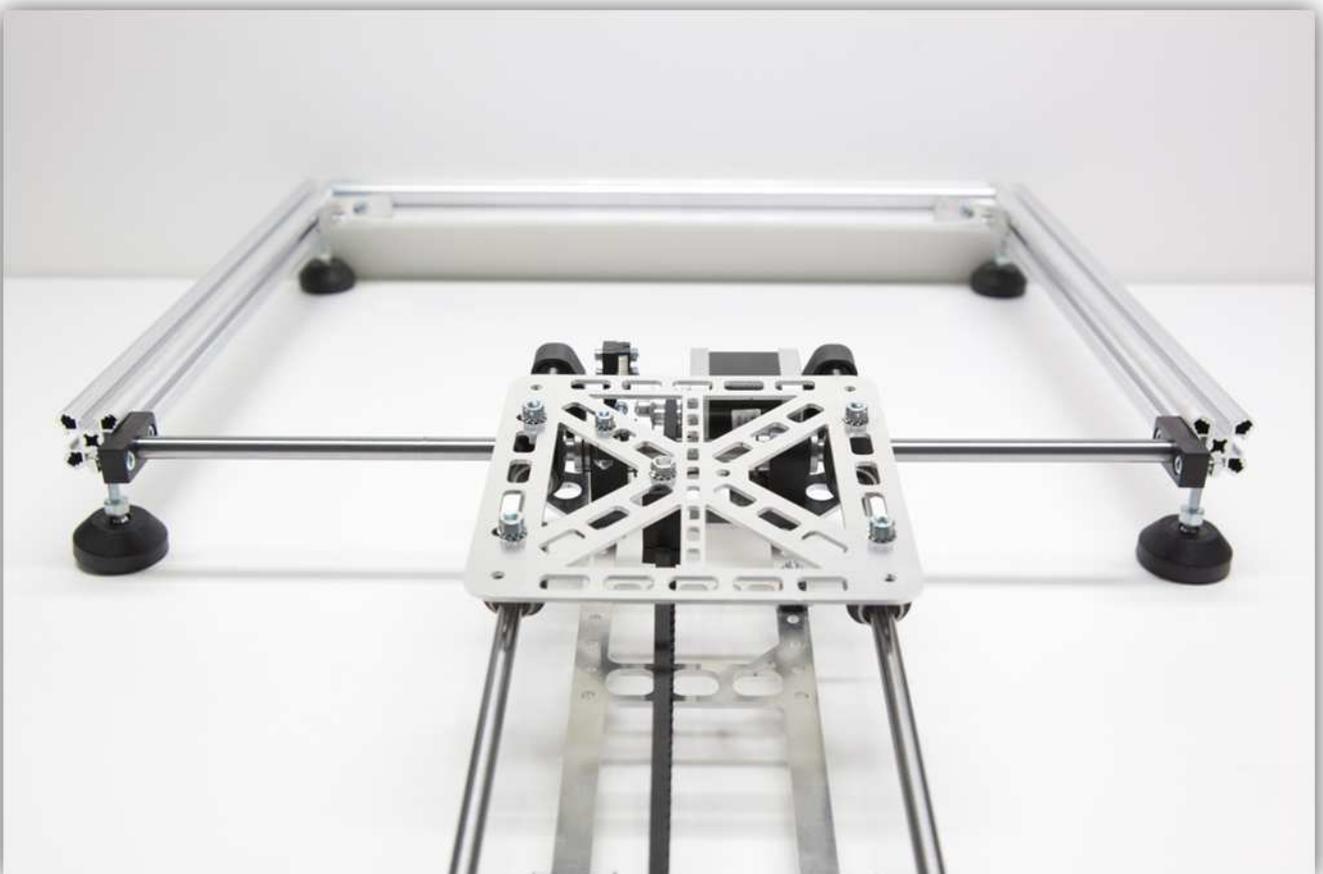
Screw an M5 square nut on each of the bolts. **Do not tighten these nuts.**



The X CARRIAGE should look like this:



Now slide the X CARRIAGE into the frame as shown in the pictures below. Do this with the side of the motor first.







Now slide 2 square M5 nuts into the right ALUMINIUM PROFILE as shown:



Slide one square M5 nut into the left ALUMINIUM PROFILE as shown:



Slide the X carriage further until there is approx. 4 mm (0.16") between the first ROD CLAMP X piece and the ANGULAR MOUNT on the end of the frame. Make sure the X CARRIAGE is level and parallel inside the frame. Also check if the BEARING CLAMP X pieces are still in the right place. The bolts holding these pieces in place should still be just hand tightened.



Now slide an ANGULAR MOUNT on each ALUMINIUM bar on the open side of the frame.



Take one ALUMINIUM PROFILE of 450 mm (17.7") out of the box and slide it down the two ANGULAR MOUNTS.



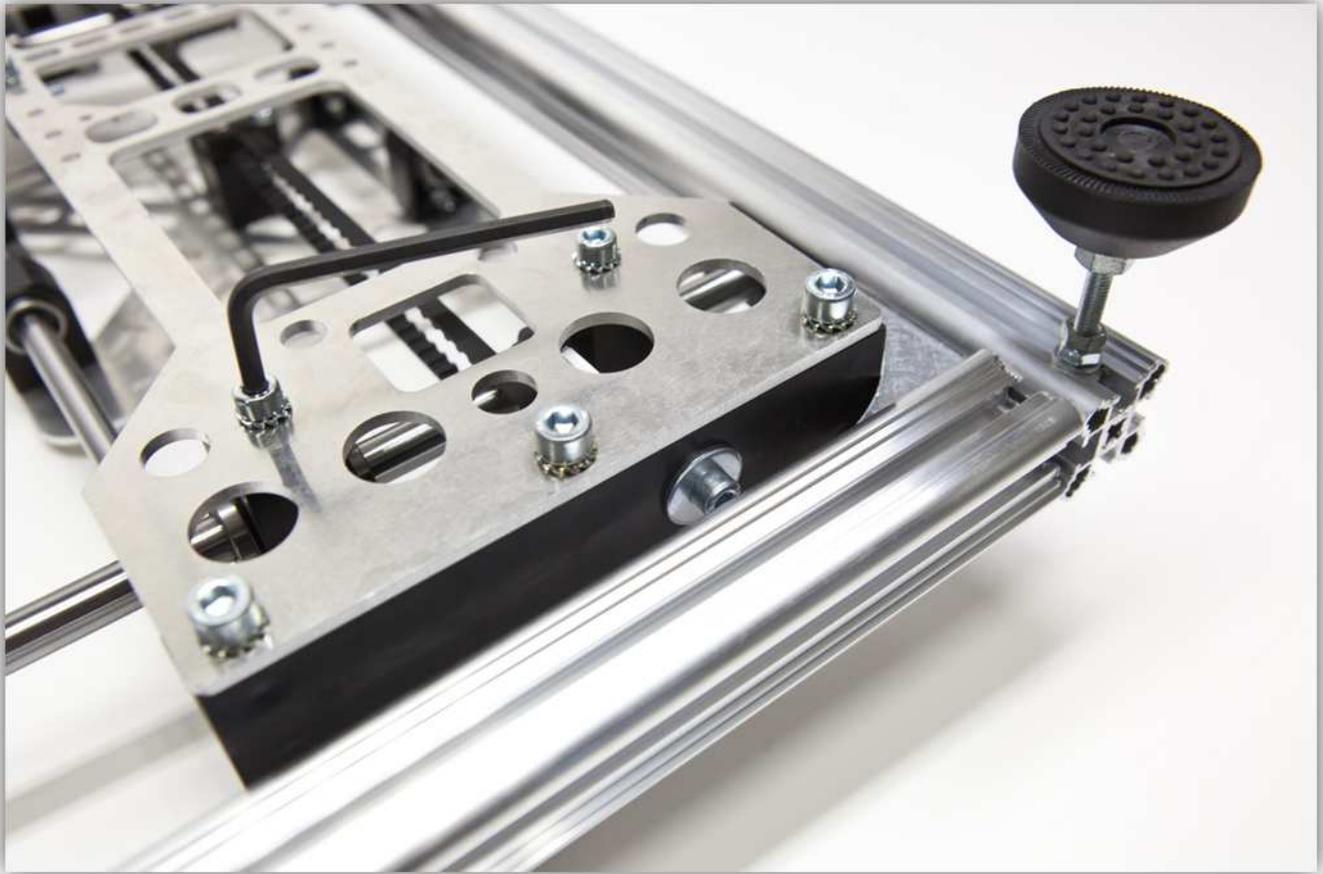
Now slide the ALUMINIUM PROFILE and the 2 ANGULAR MOUNTS inside the frame.



If the ALUMINIUM PROFILE is flush with the rest of the frame you can tighten all the bolts of the ANGULAR MOUNTS.



Now after making sure that the BEARING CLAMP X pieces are still in the right place, you can tighten these bolts holding them in place. Make sure the X CARRIAGE can move freely.



Check if the X CARRIAGE is centred, you should measure approx. 93.50 mm (3.68") on each side.



Now tighten the bolts on de ROD CLAMP X pieces securing the X carriage in place.





Make sure you have enough clearance between the BEARING CLAMP Y pieces and the LINEAR BEARINGS in the BEARING CLAMP X pieces. You can slide these bearings a few millimetres out of the way when there is not enough clearance. The 2 carriages should now move freely along the full length of all the rods.

