

004 – ASSEMBLING THE LEFT UPRIGHT OF THE FRAME

Take one ALUMINIUM PROFILE of 500 mm (19.7") out of the box.



Slide two ANGULAR MOUNTS (from the box) in the end of the ALUMINIUM PROFILE of 500 mm (19.7").



Slide this assembly in the left profile of the BASE FRAME.



Slide it further down the profile until its centre is at 16 cm (6.3") from the edge of the base frame.



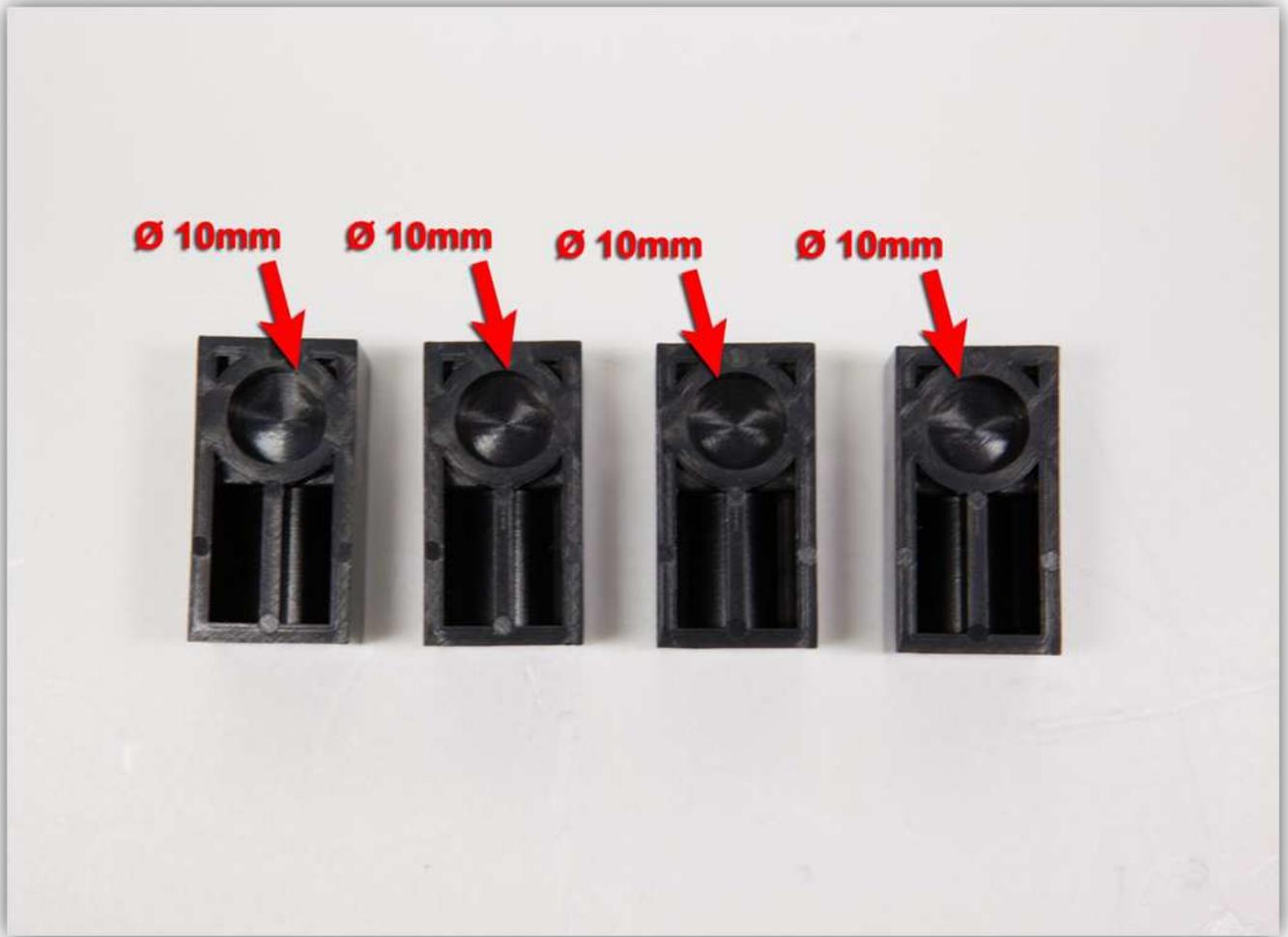
Tighten the bolts on the ANGULAR MOUNTS.



Take all the parts out of the bag labelled with 21.



Now take 4 pieces as shown in the picture below out of the bag containing the plastic parts (ROD CLAMP Z BIG). Notice how the round hole must be 10 mm (0.39") in diameter.



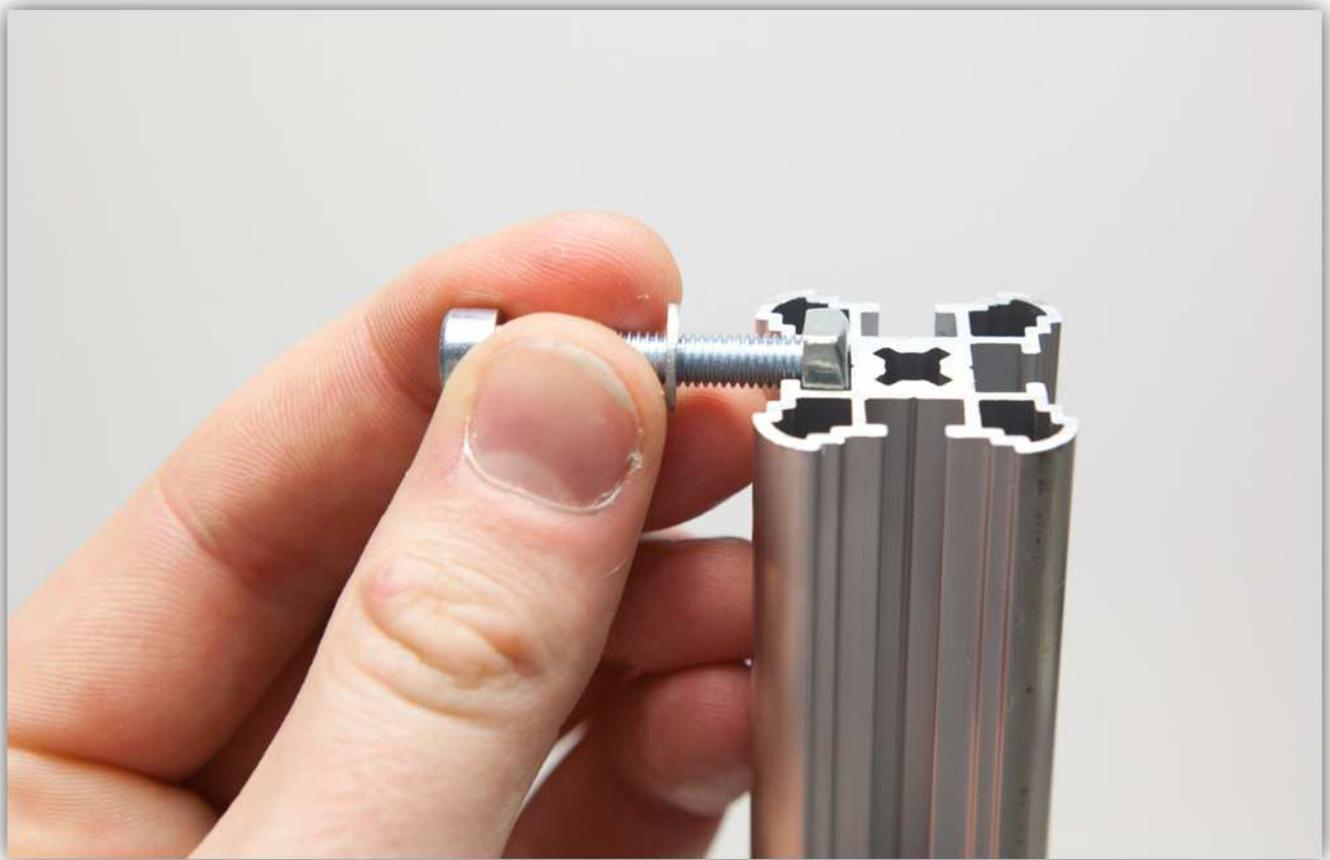
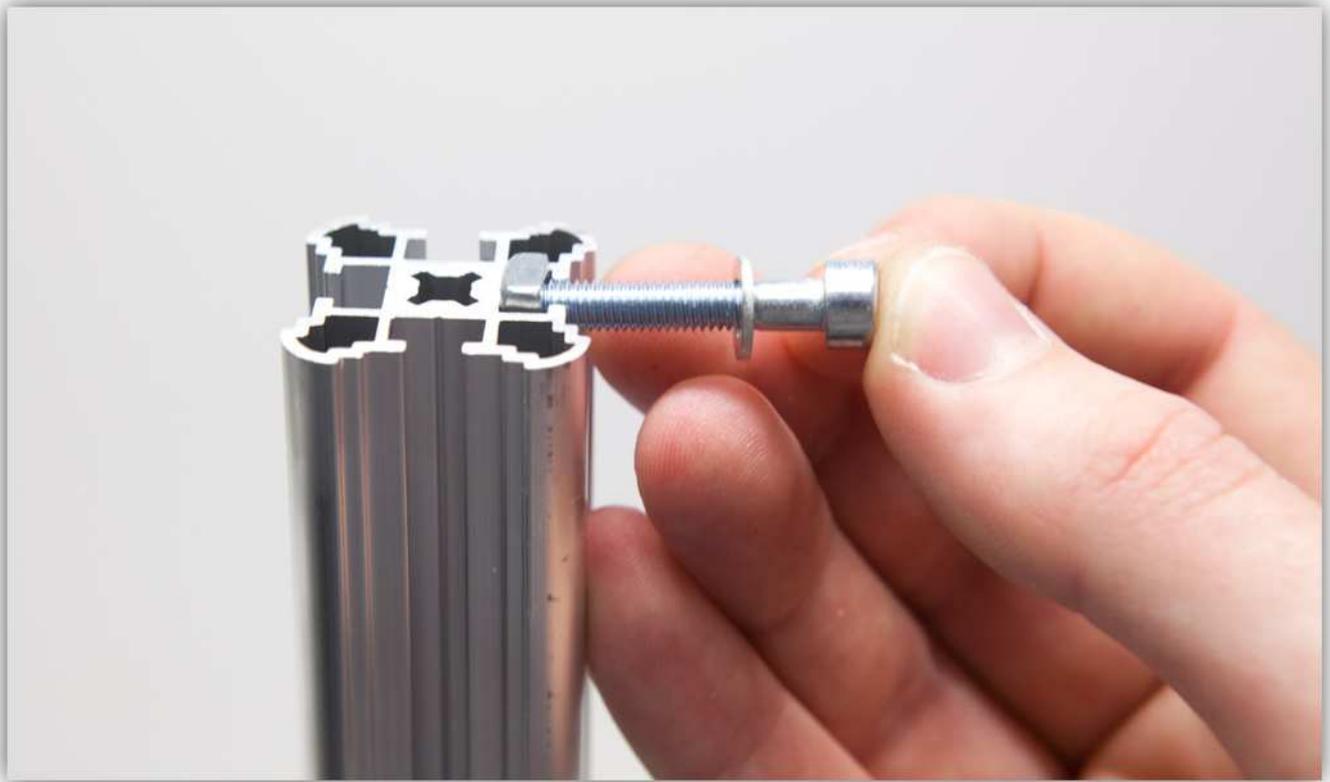
Take two rods out of the bag labelled with 7. These rods should have a diameter of 10 mm (0.39") and a length of 345 mm (13.6").

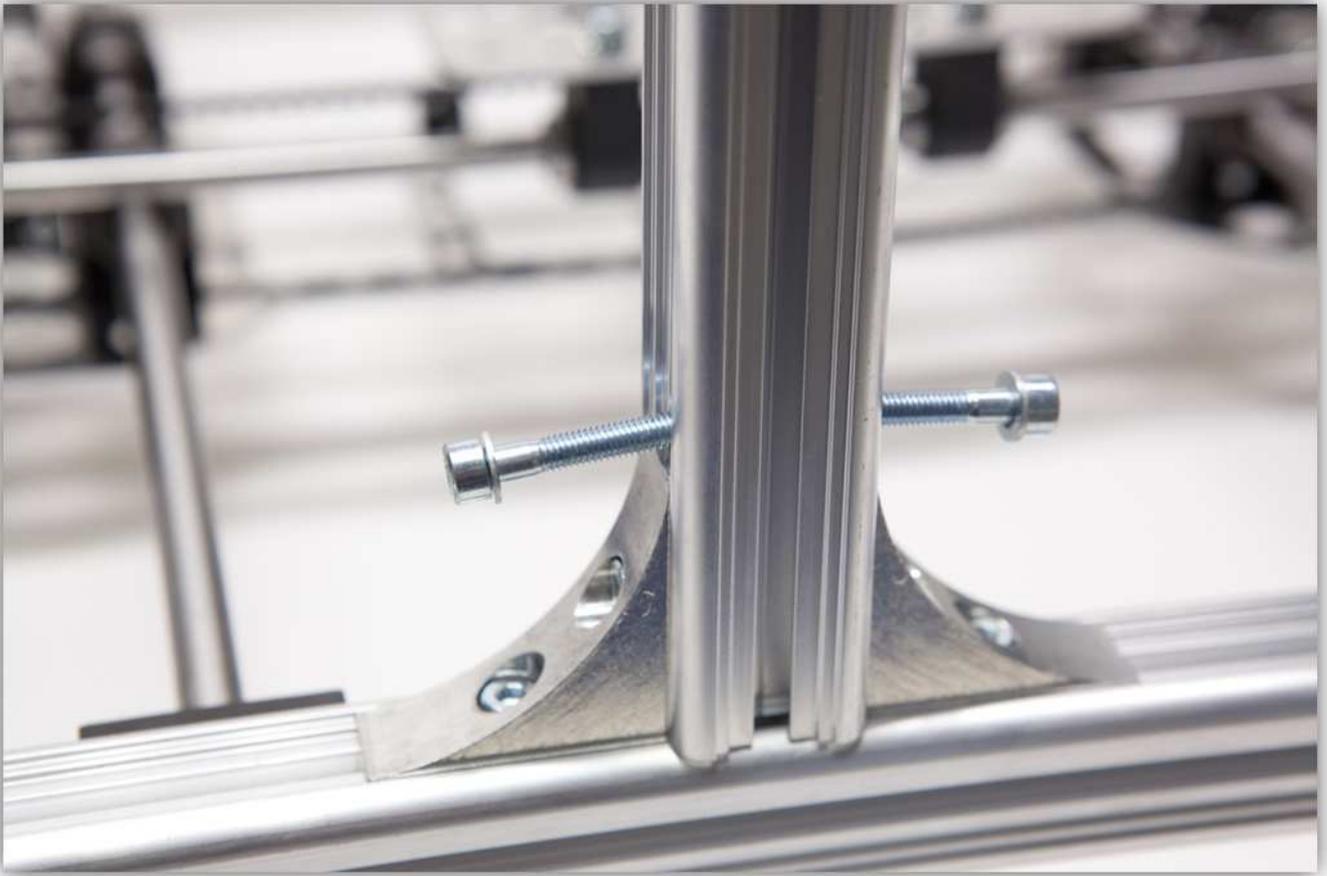


Use 4 square M5 nuts to assemble the following:

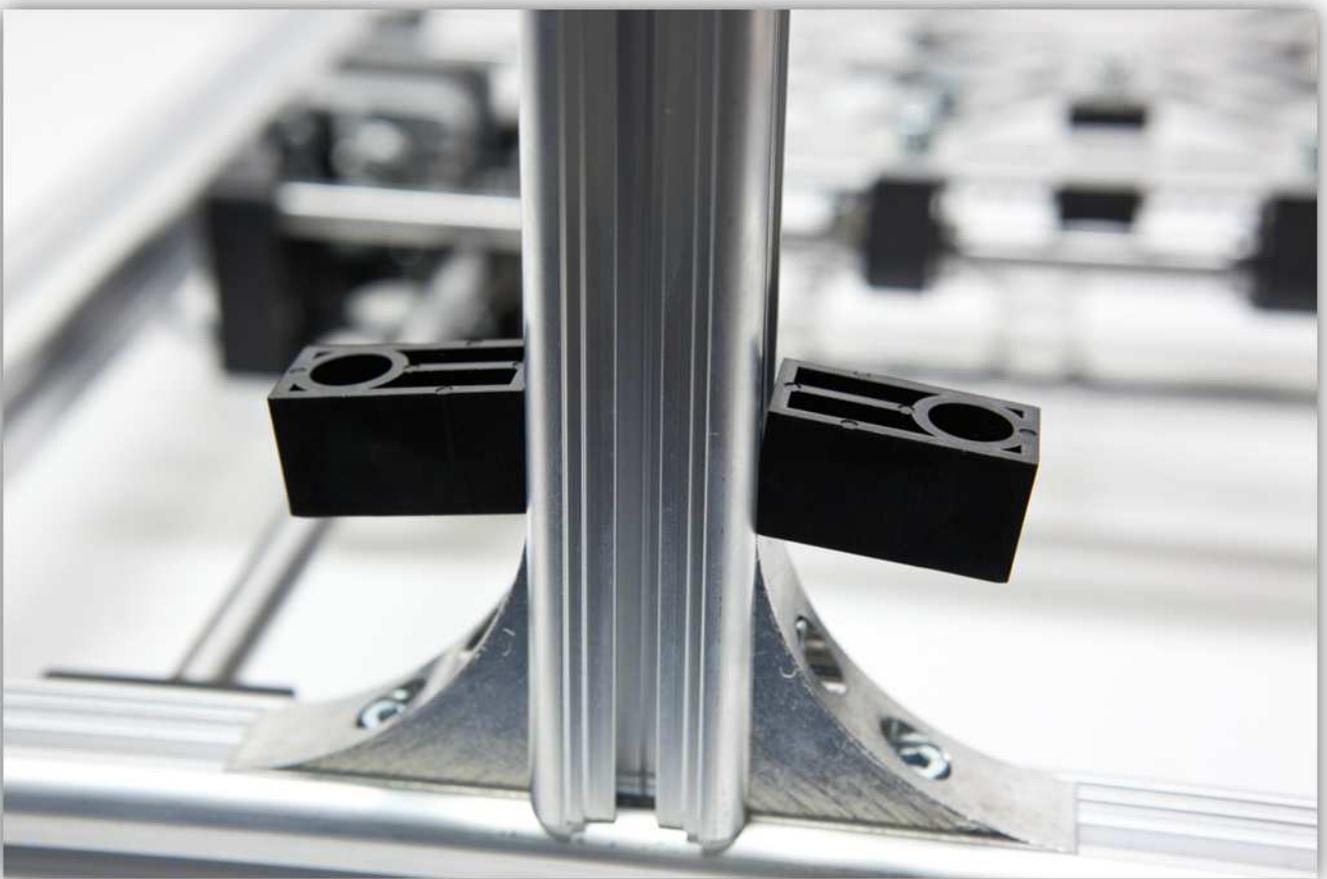


Slide 2 of these down the left upright ALUMINIUM PROFILE as shown in the pictures below:





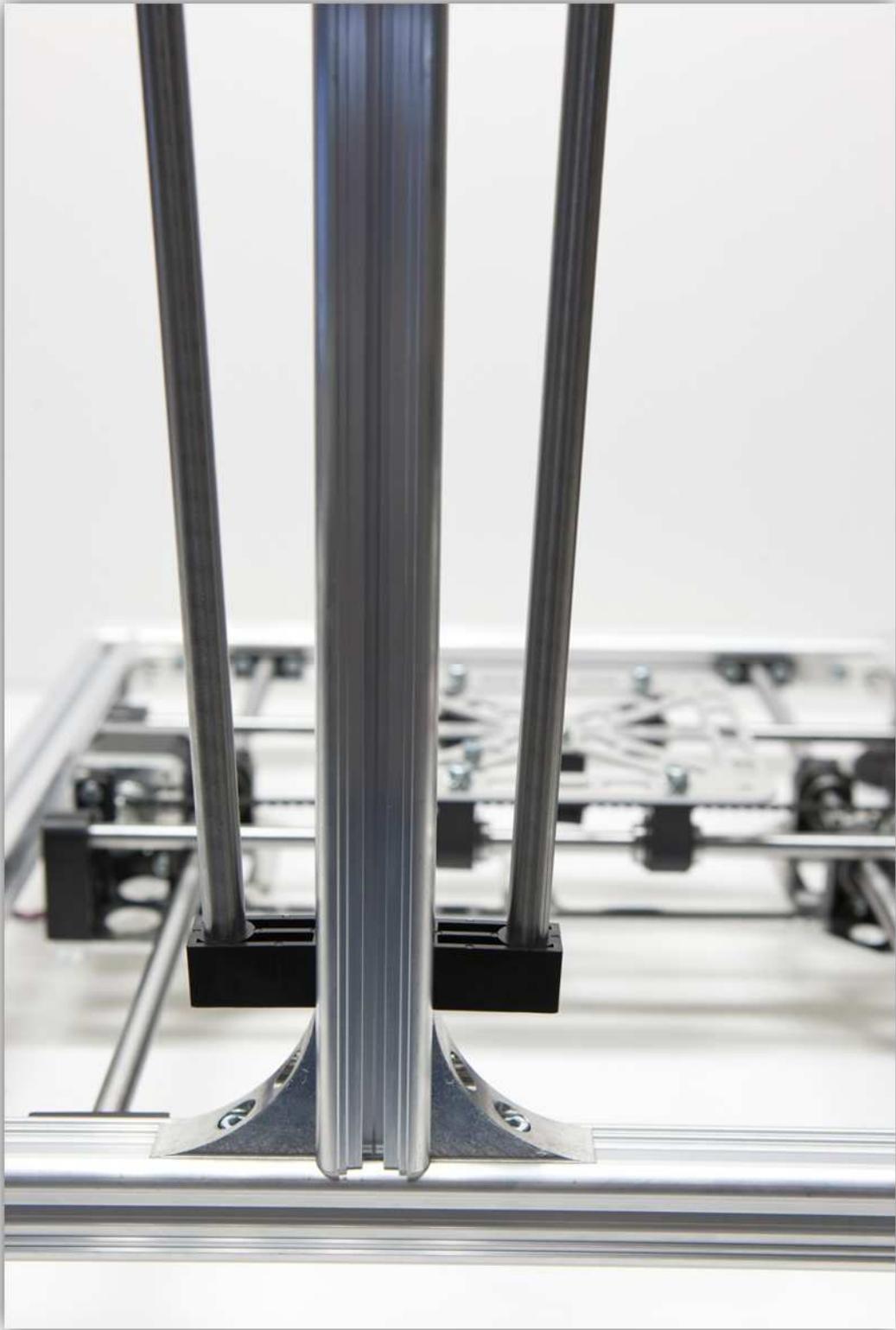
Now slide two ROD CLAMP Z BIG pieces over the bolts as shown in the pictures below.



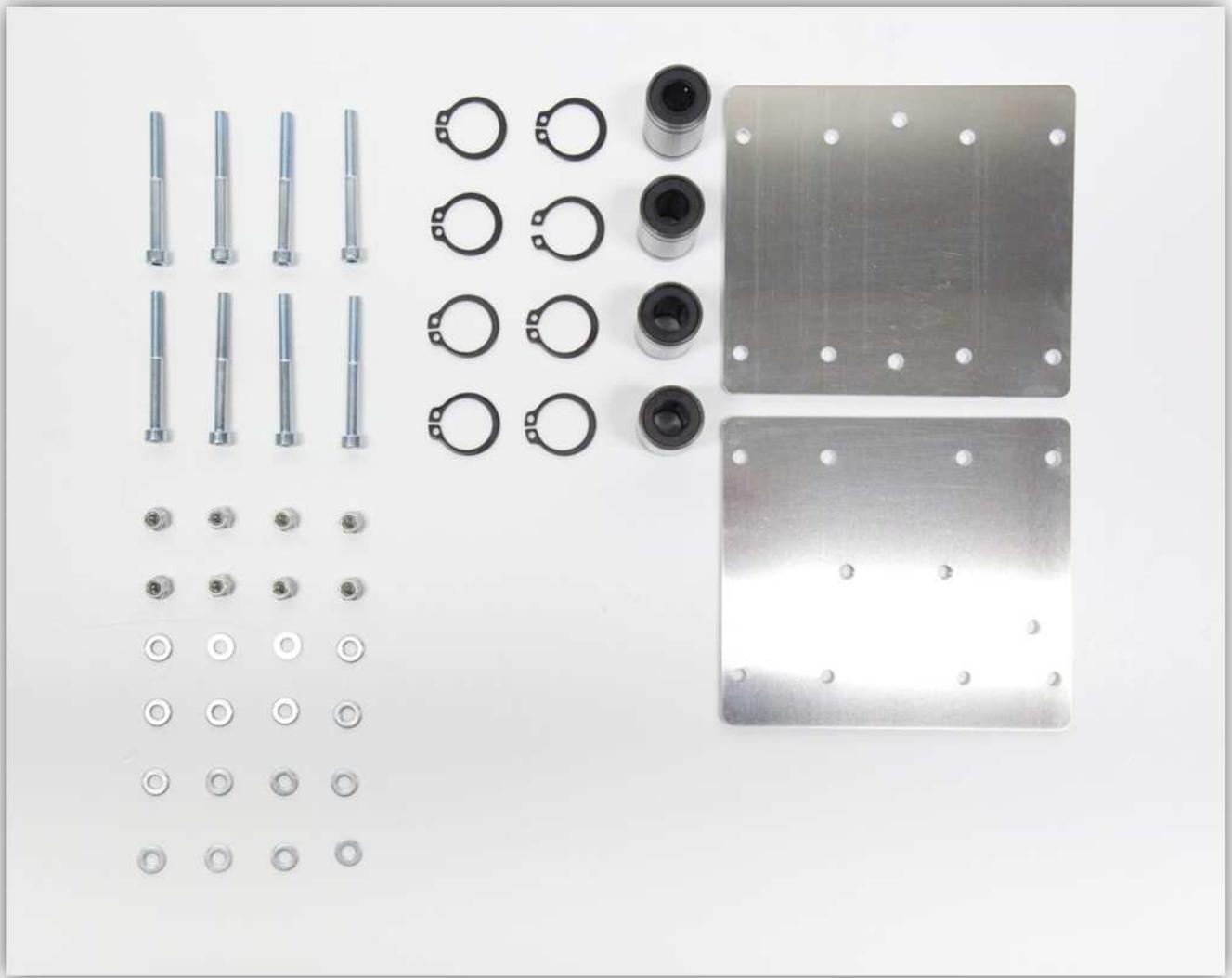
Make sure that the ROD CLAMP Z BIG pieces are as far down as possible and then tighten the bolt. **Do not over tighten this bolt.**



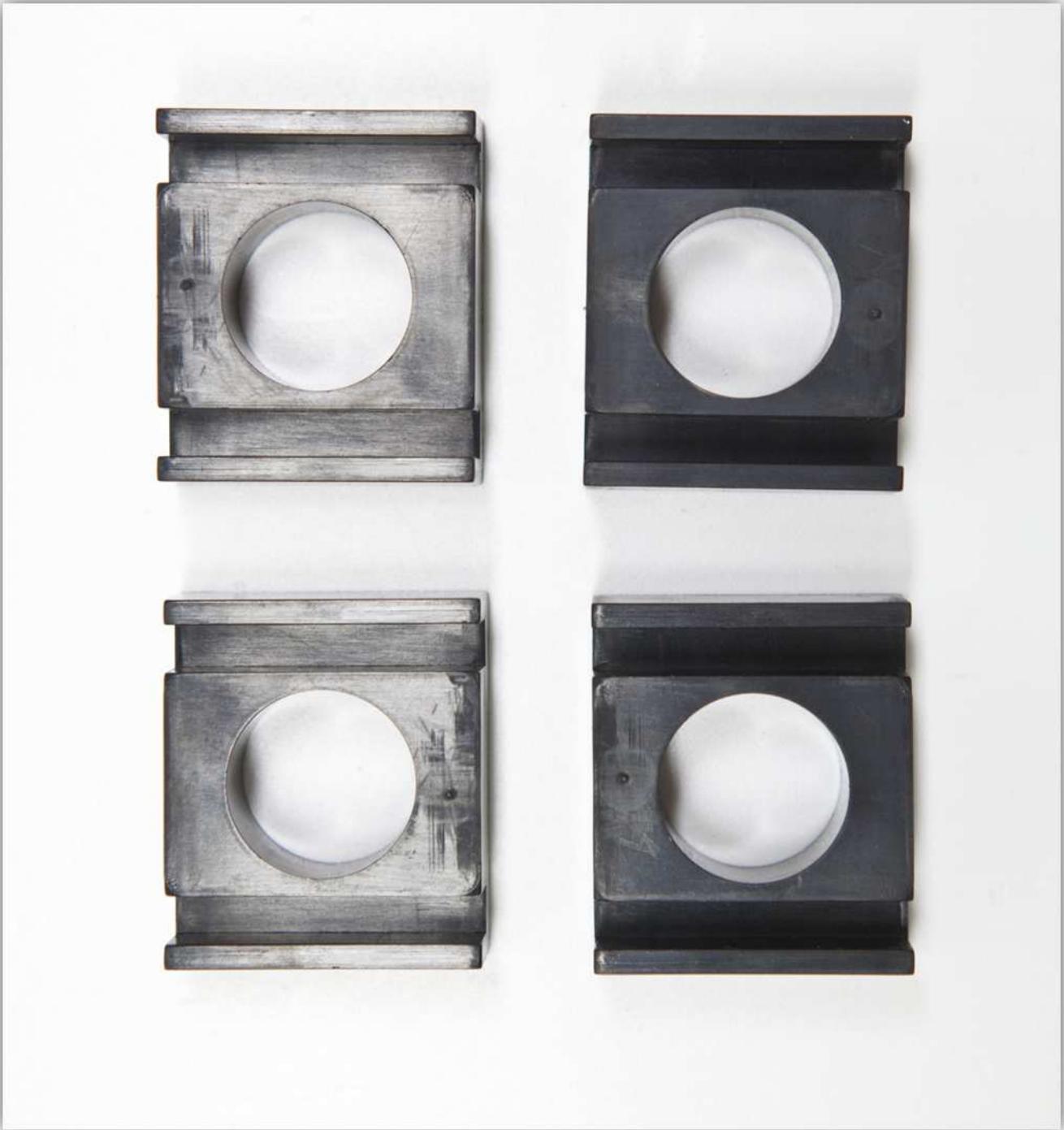
Put the two rods in the ROD CLAMP Z BIG pieces.



Take all the parts out of the bag labelled with 19.



Now take 4 pieces as shown in the picture below out of the bag containing the plastic parts (BEARING CLAMP Z BIG).

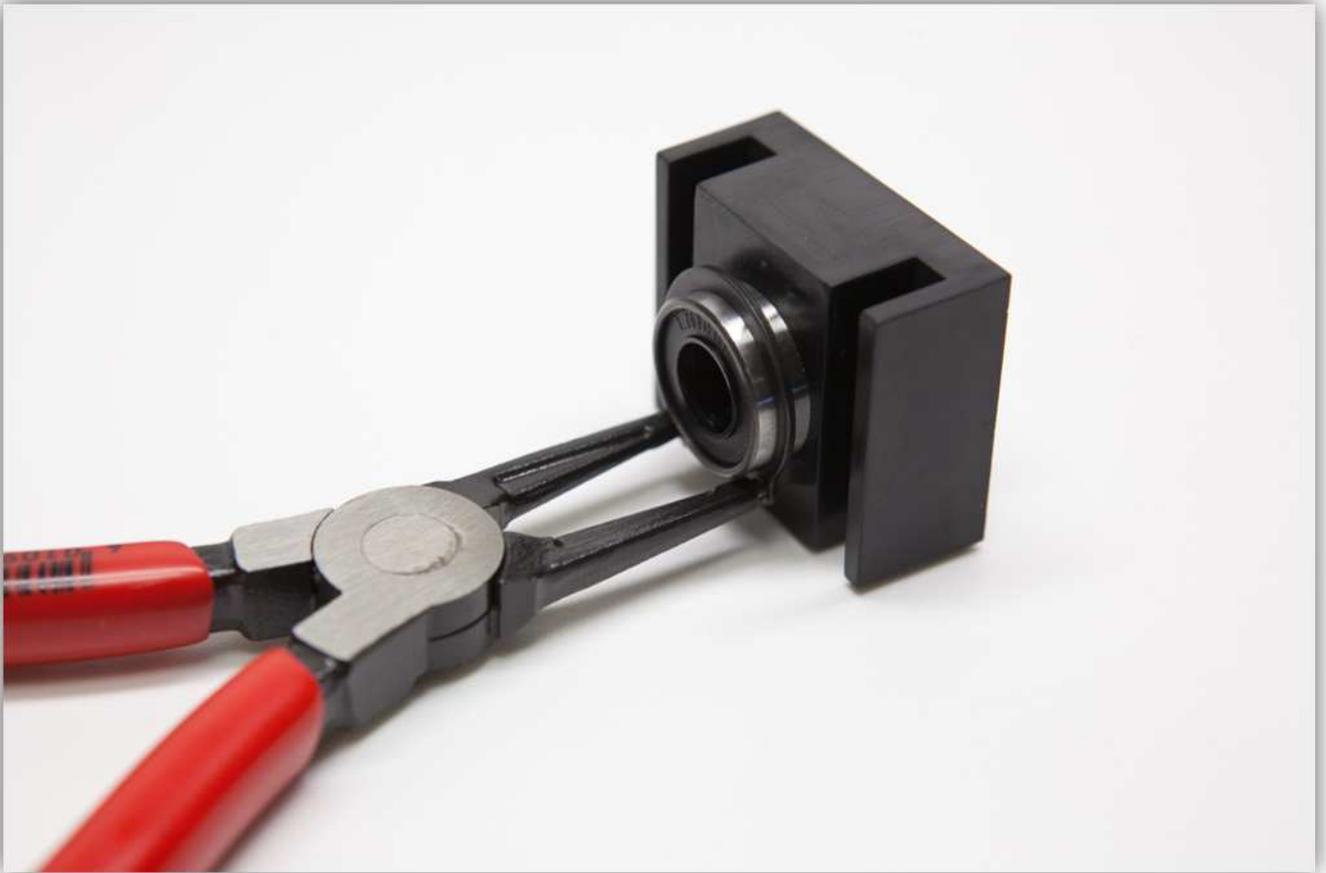


Slide 4 linear bearings into the 4 BEARING CLAMP Z BIG pieces.



Use the circlip pliers to carefully fit the circlips around the both sides of the 4 LM10UU LINEAR BEARINGS.







Take all the parts out of the bag labelled with 20.



Use the 2 M4 countersunk screws to attach the small ALUMINIUM PROFILE to the Z CARRIAGE FRONT piece.



Note the red markings. Make sure the orientation is correct.



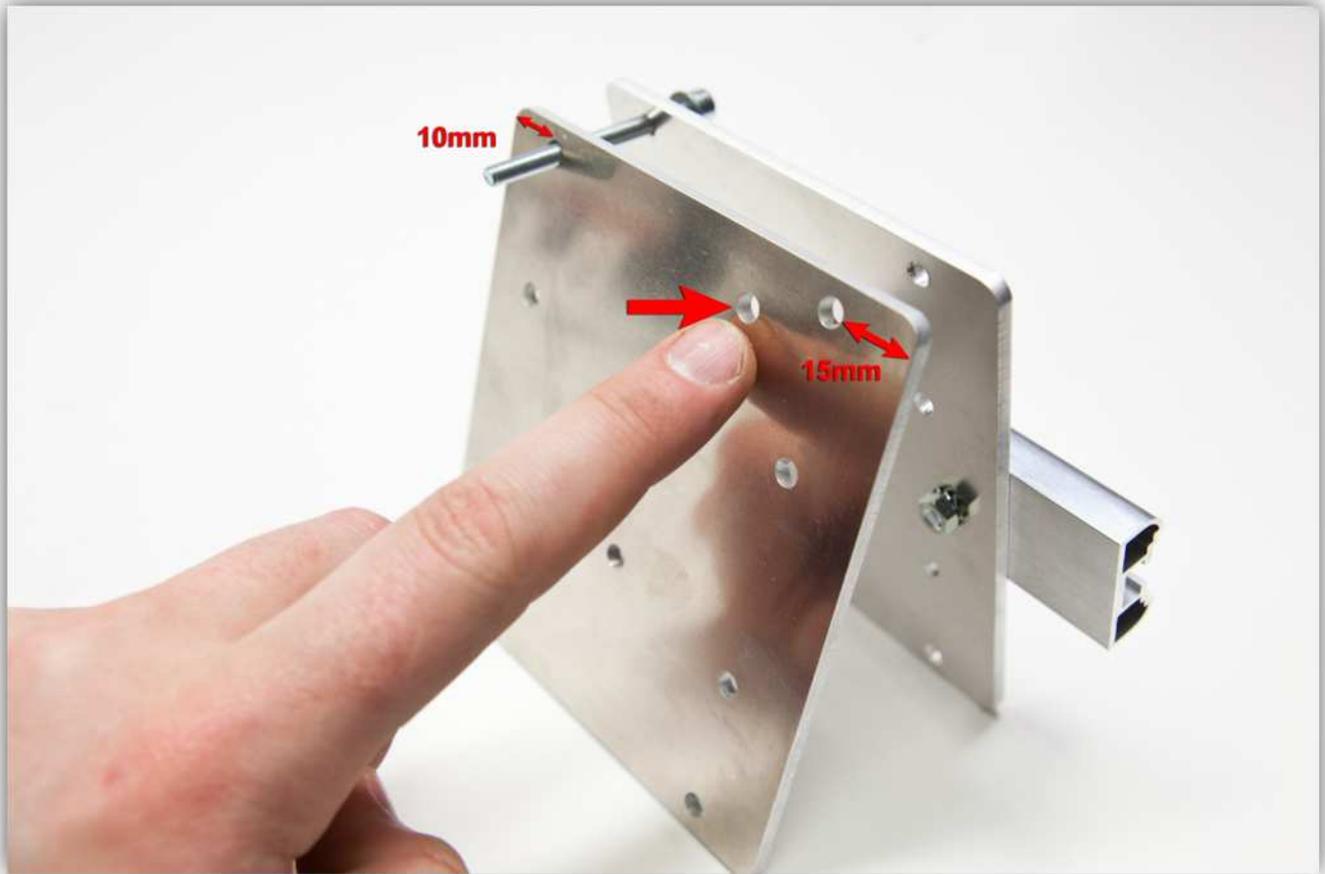
Use the M4 nuts and M4 toothed washers as shown in the picture below:



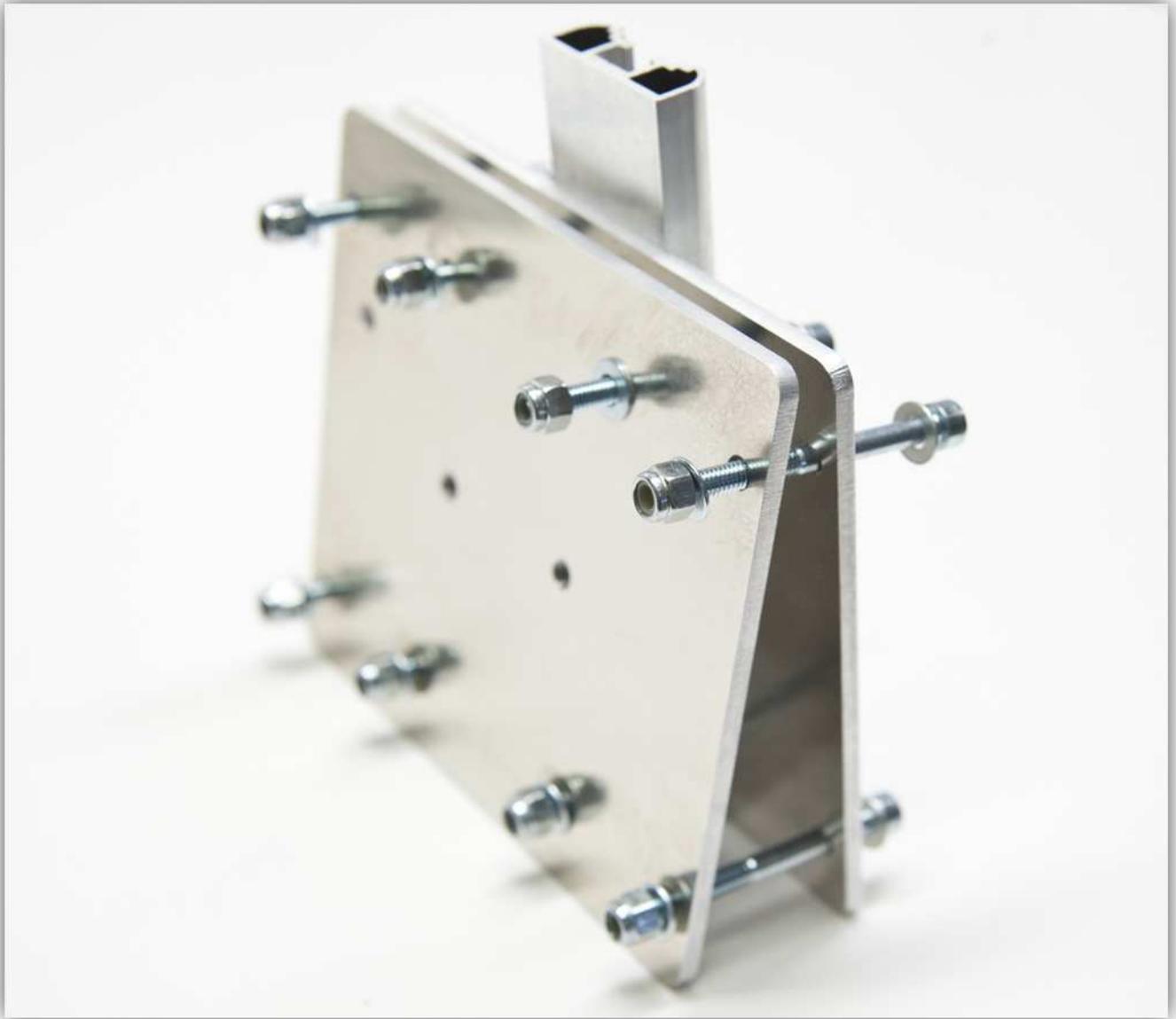
Slide an M4 washer over the long M4 bolt. Repeat this 8 times.



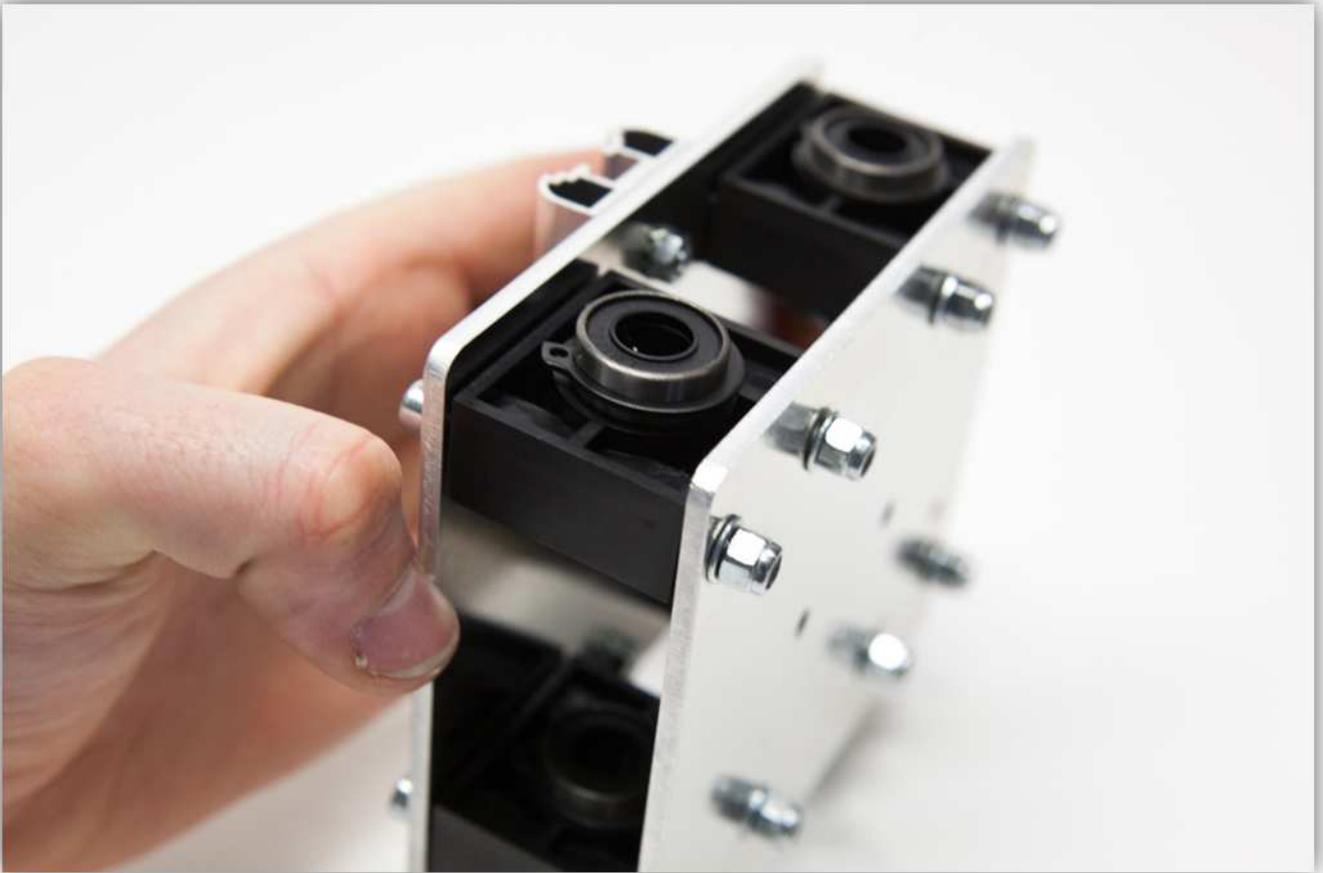
Slide the bolt with washer through then Z CARRIAGE FRONT piece and the Z CARRIAGE back piece. **Make sure that the orientation of the pieces is exactly as in the picture (watch the red arrows carefully).**



Put the remaining bolts in place and use an M4 washer and an M4 locking nut on each bolt. **Do not tighten the bolts.**



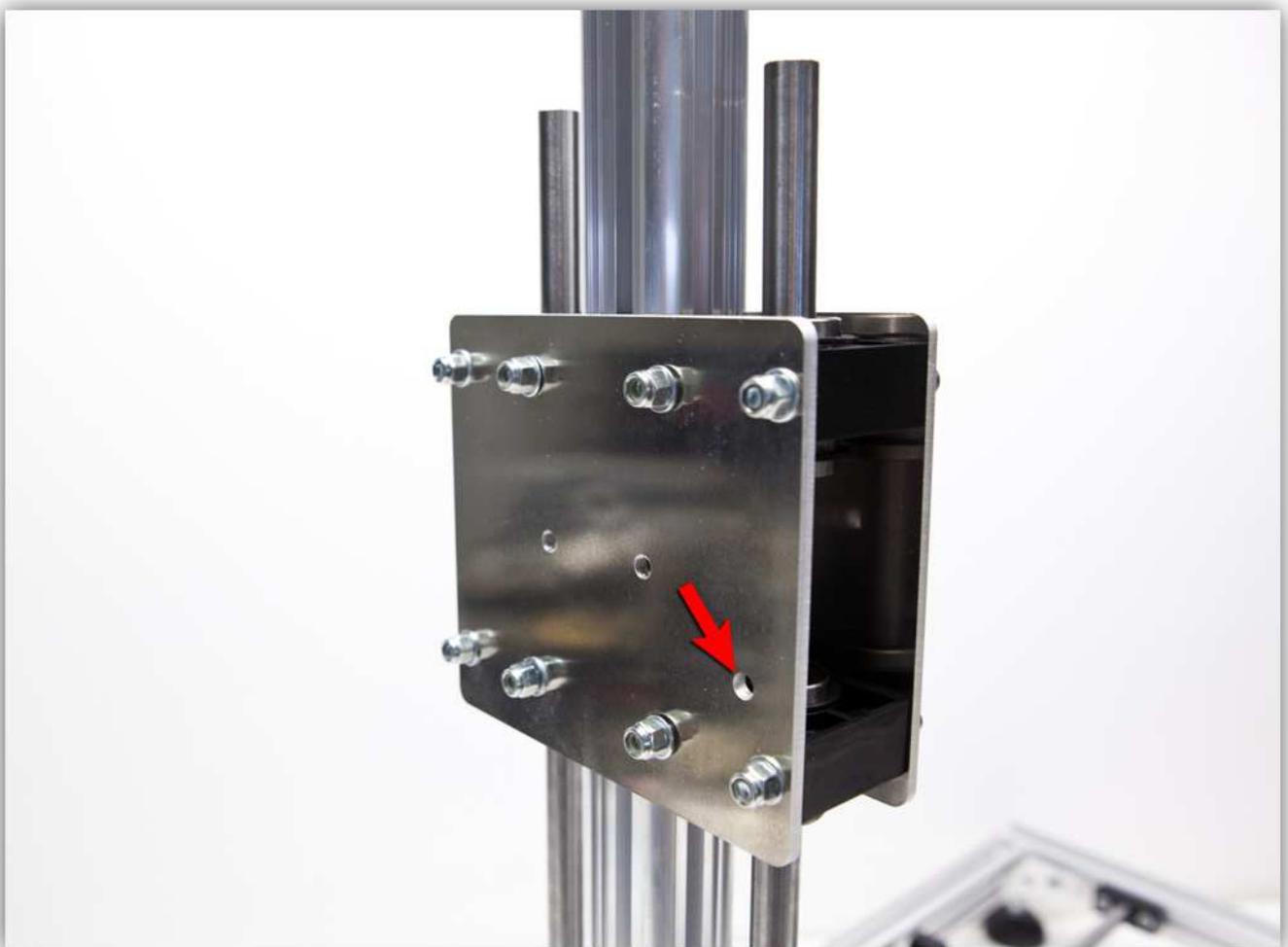
Slide the 4 BEARING CLAMP Z BIG pieces between the 2 aluminium plates and over the bolts.

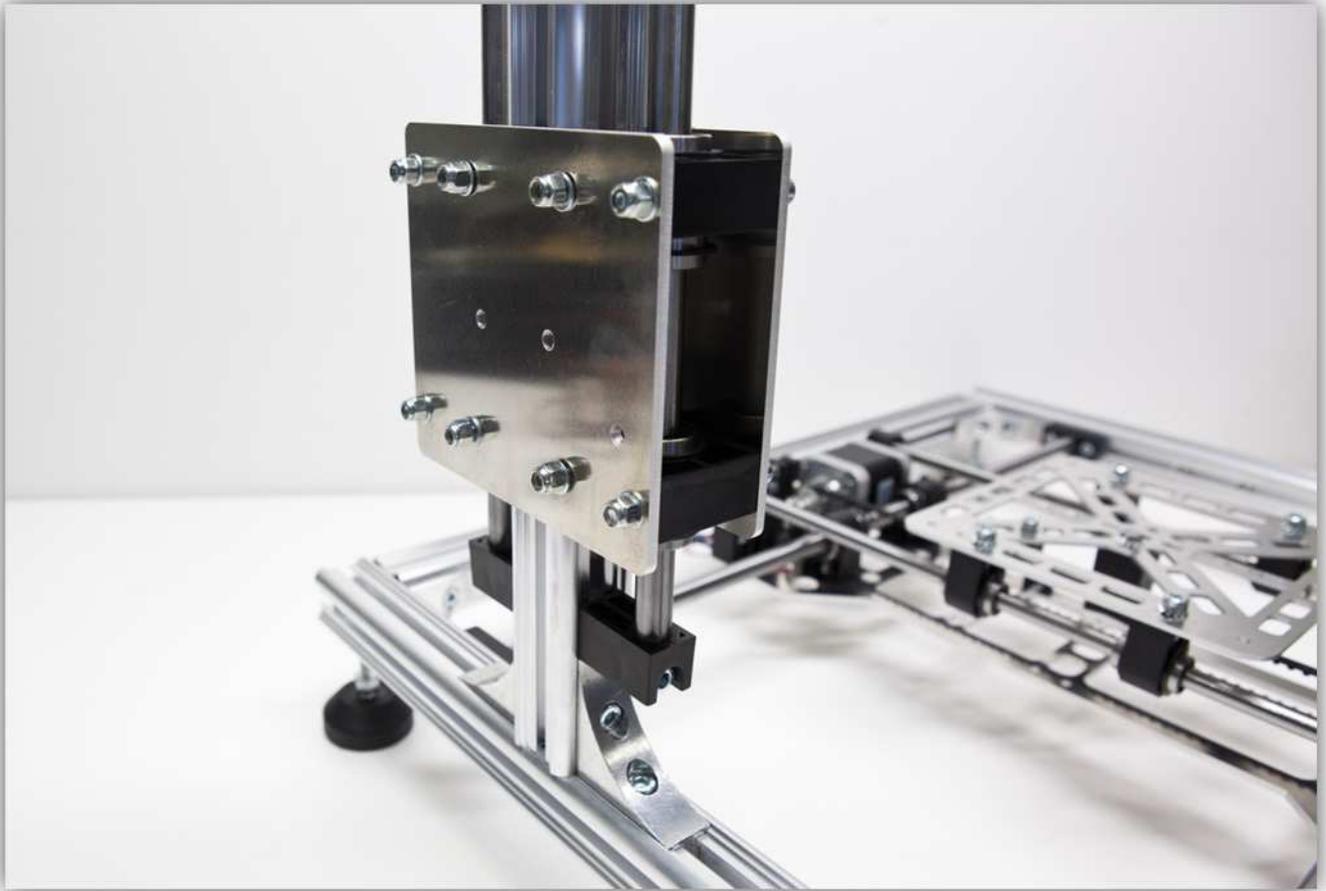


Slightly tighten the bolts. We will fully tighten these bolts at a later step in the building process.



Slide this assembly over the upright 2 rods. **Pay attention to the orientation.**





Now slide the two remaining ROD CLAMP Z BIG pieces over the rods.

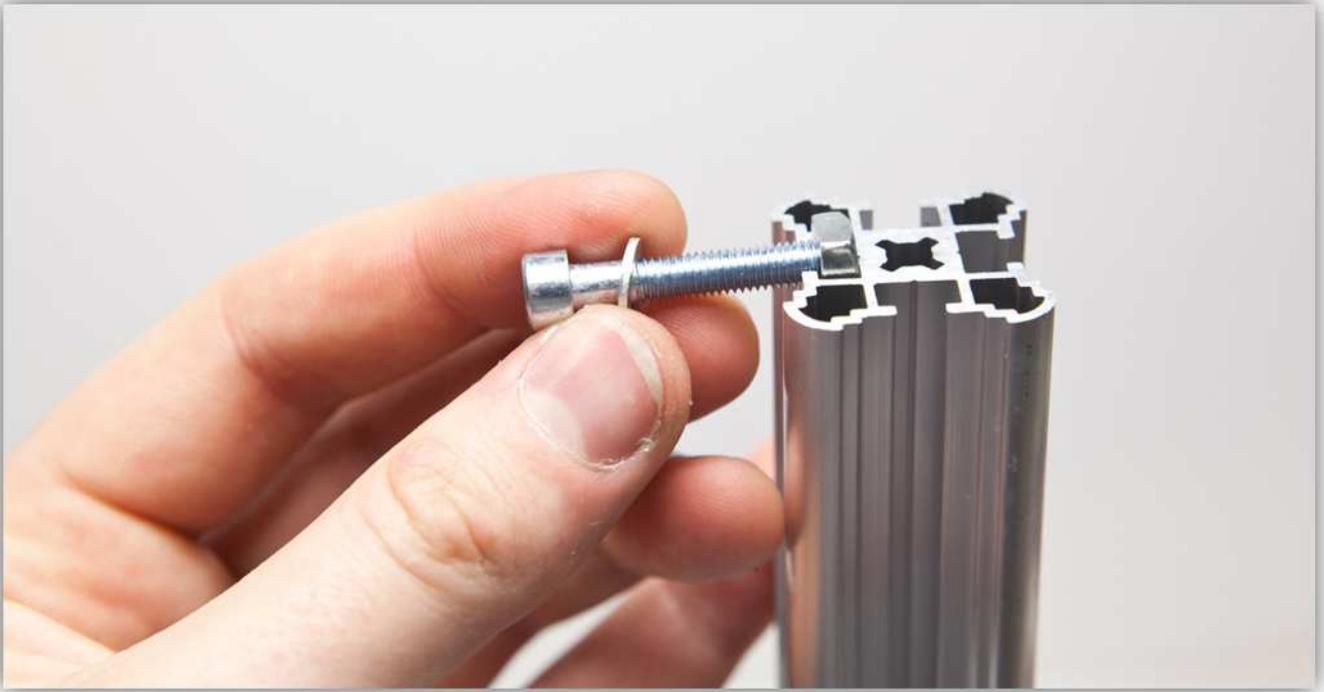




Take two of these bolts you assembled earlier:



Slide these bolts in the upright profile so they fit in the ROD CLAMP Z BIG pieces.



Tighten these bolts. **Do not over tighten.**



Making sure that this Z CARRIAGE can move freely up and down, you can firmly tighten all the bolts that were previously only slightly tightened.

