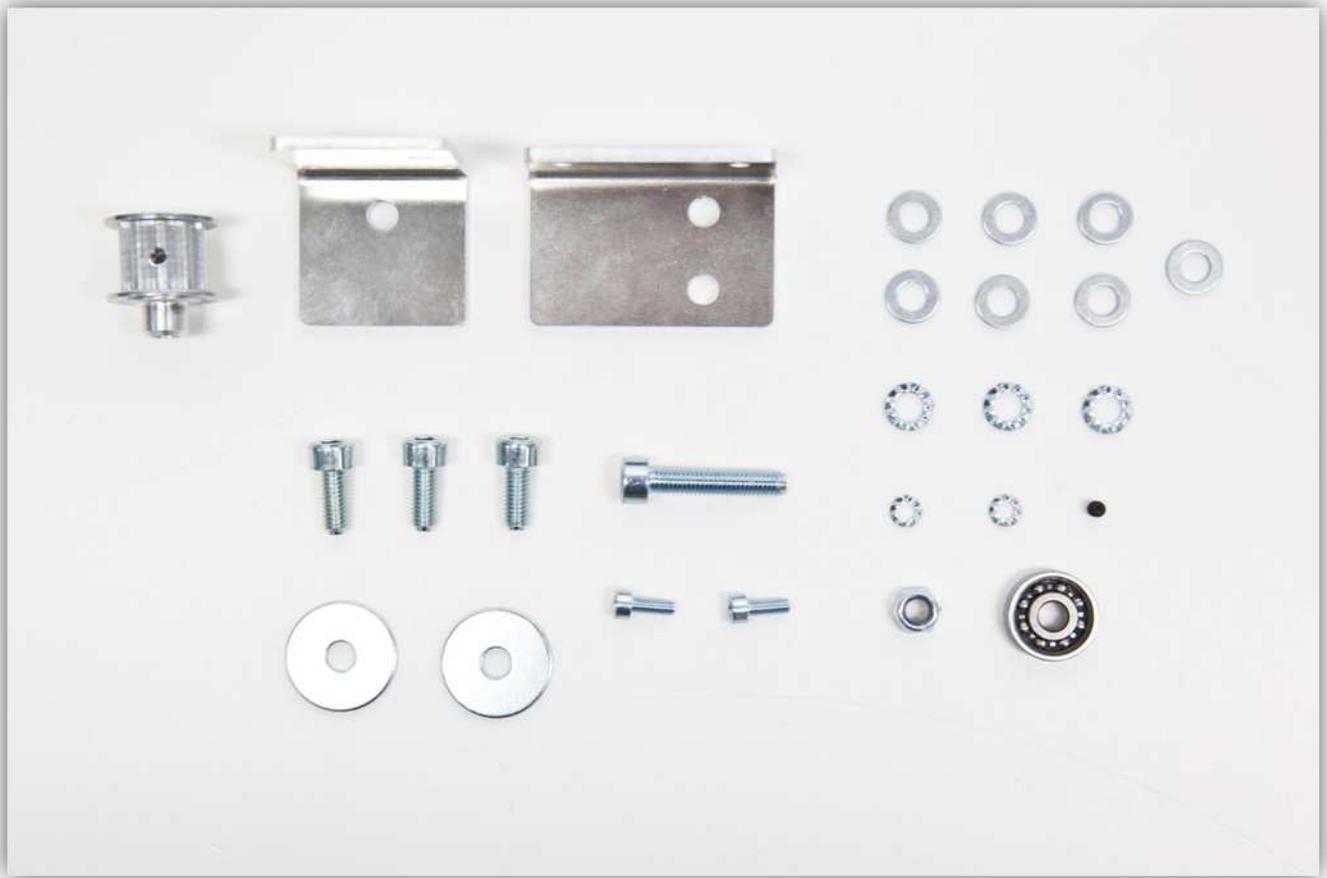
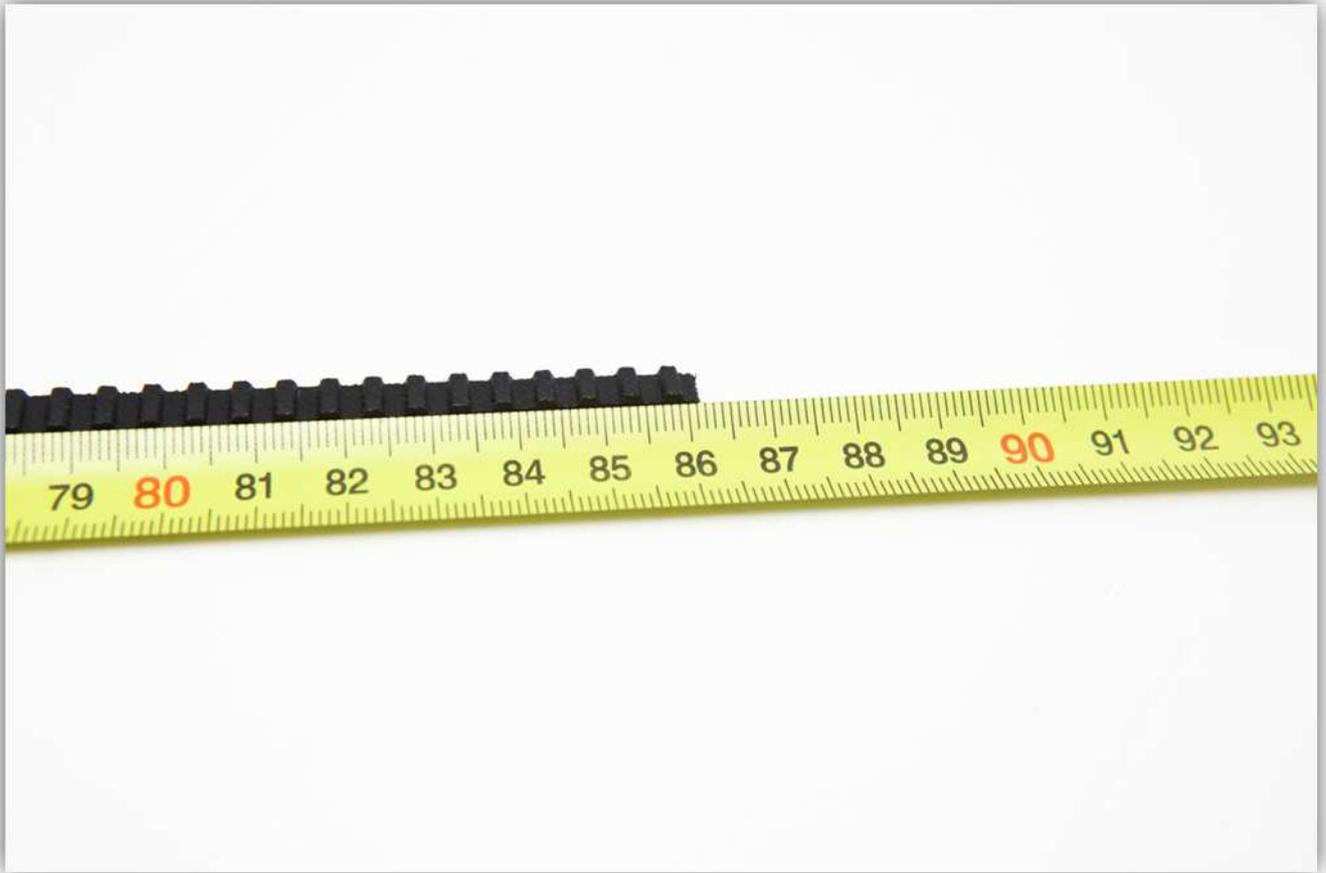


008 – ASSEMBLING THE X DRIVETRAIN

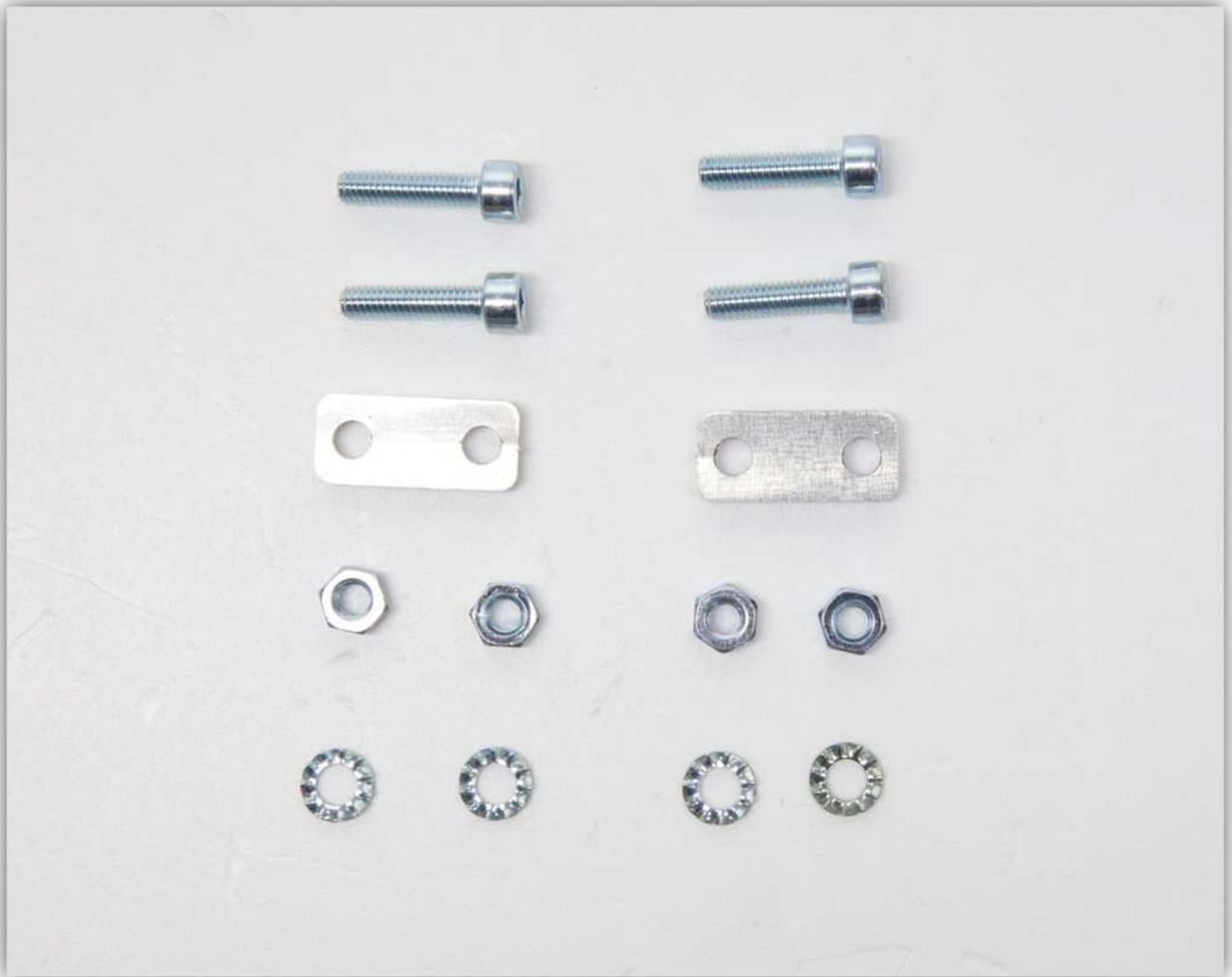
Take the parts out of the bag labelled with 28.



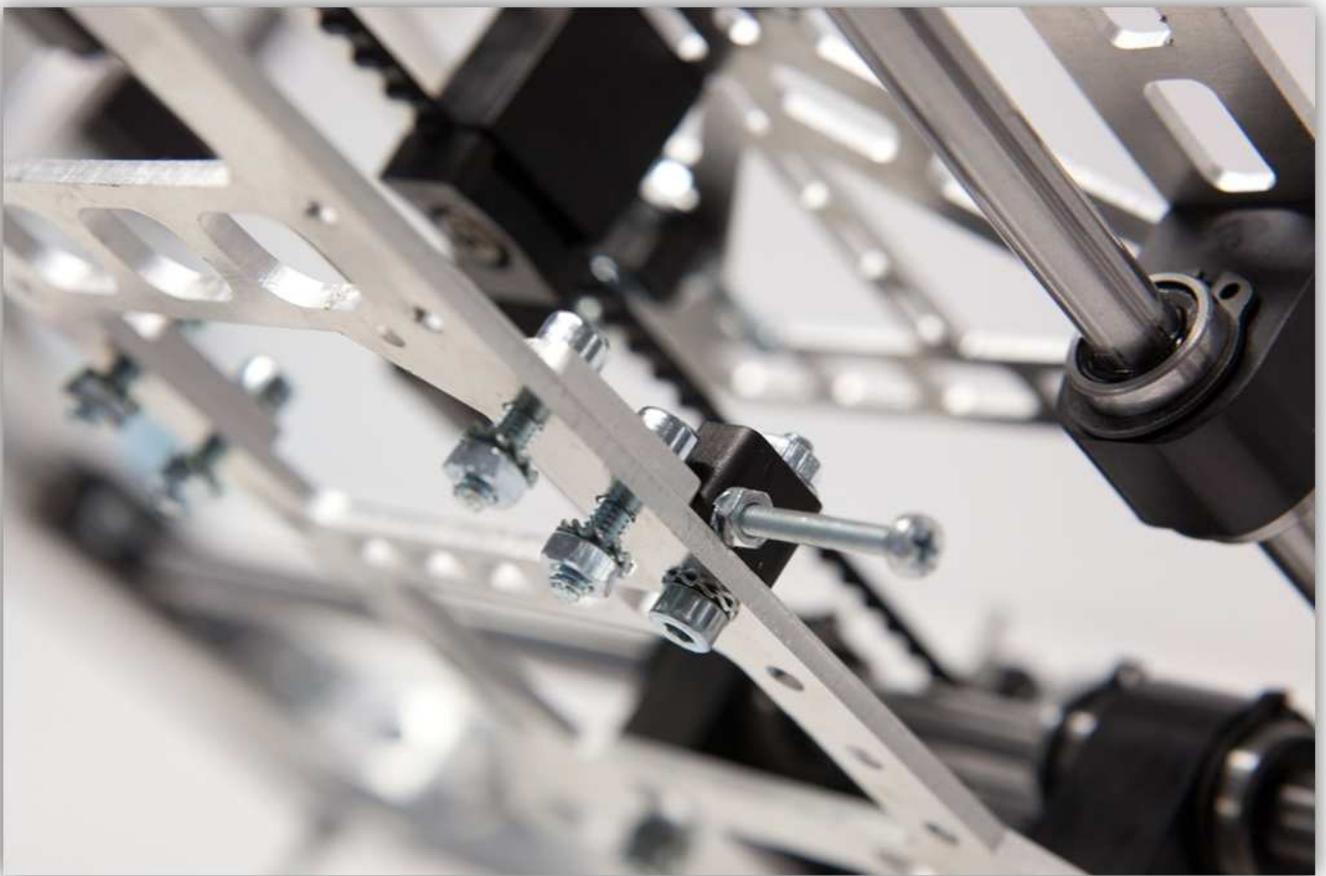
Take the piece of 86 cm (3.39") belt you cut earlier.

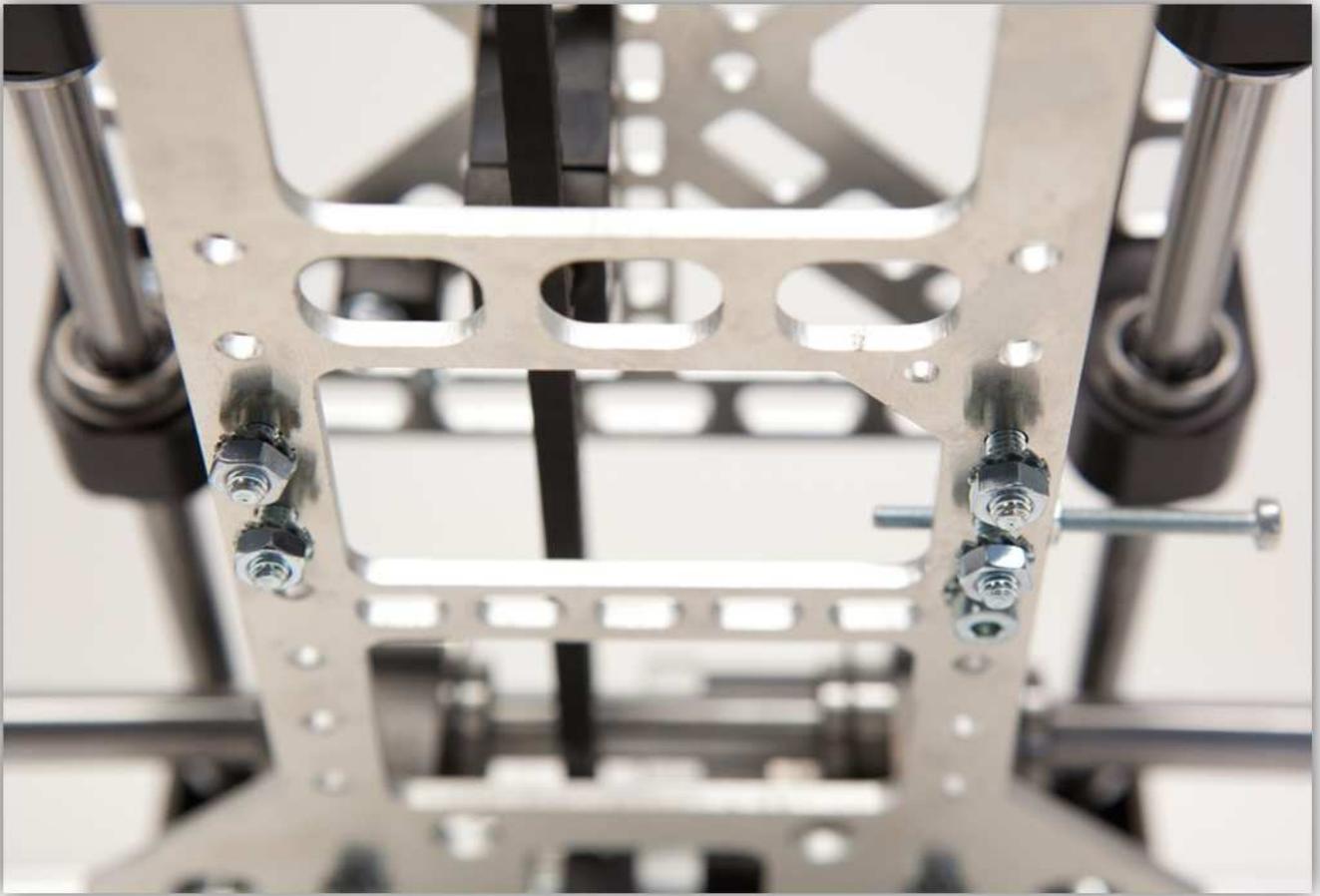


Take the parts out of the bag labelled with 29.

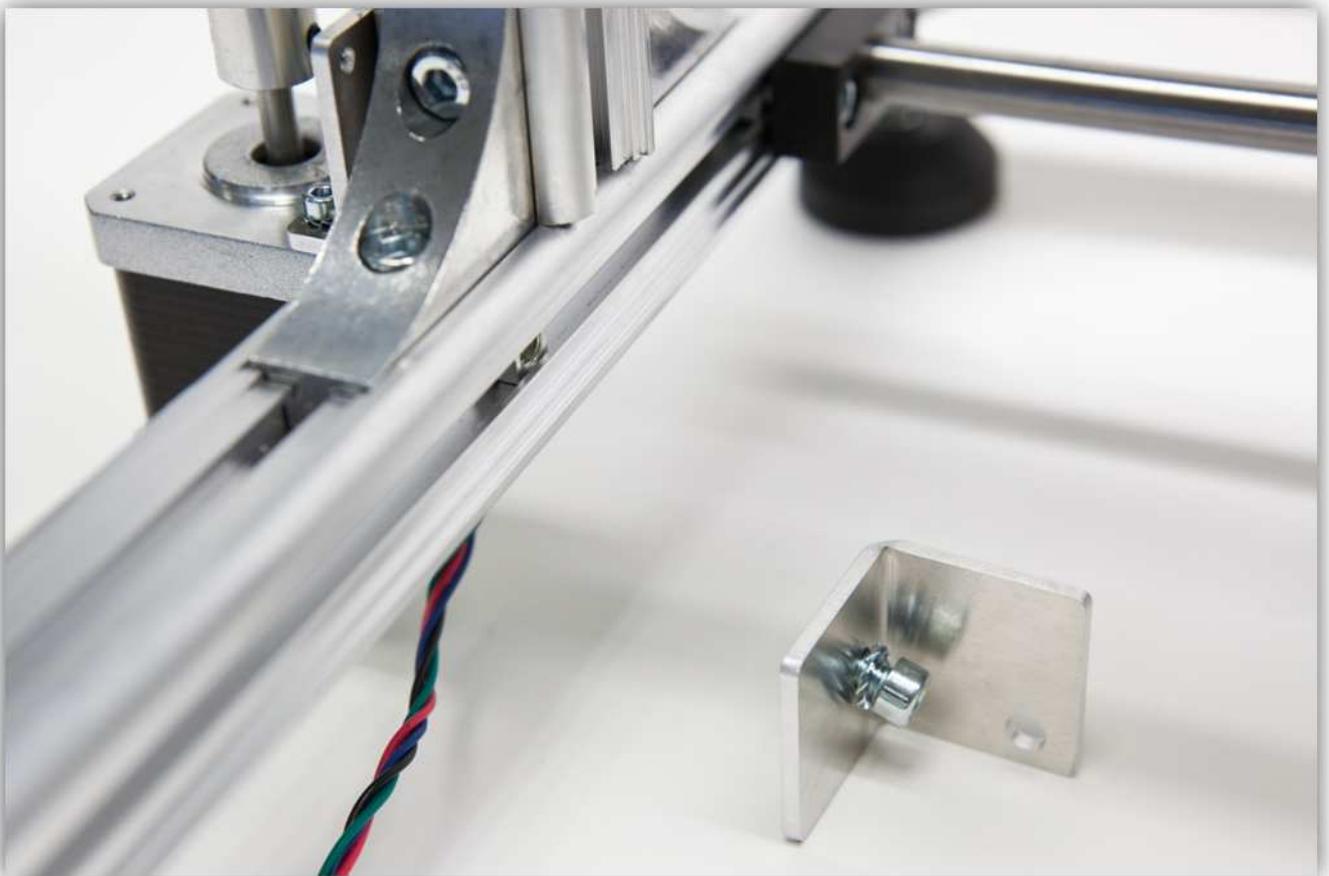


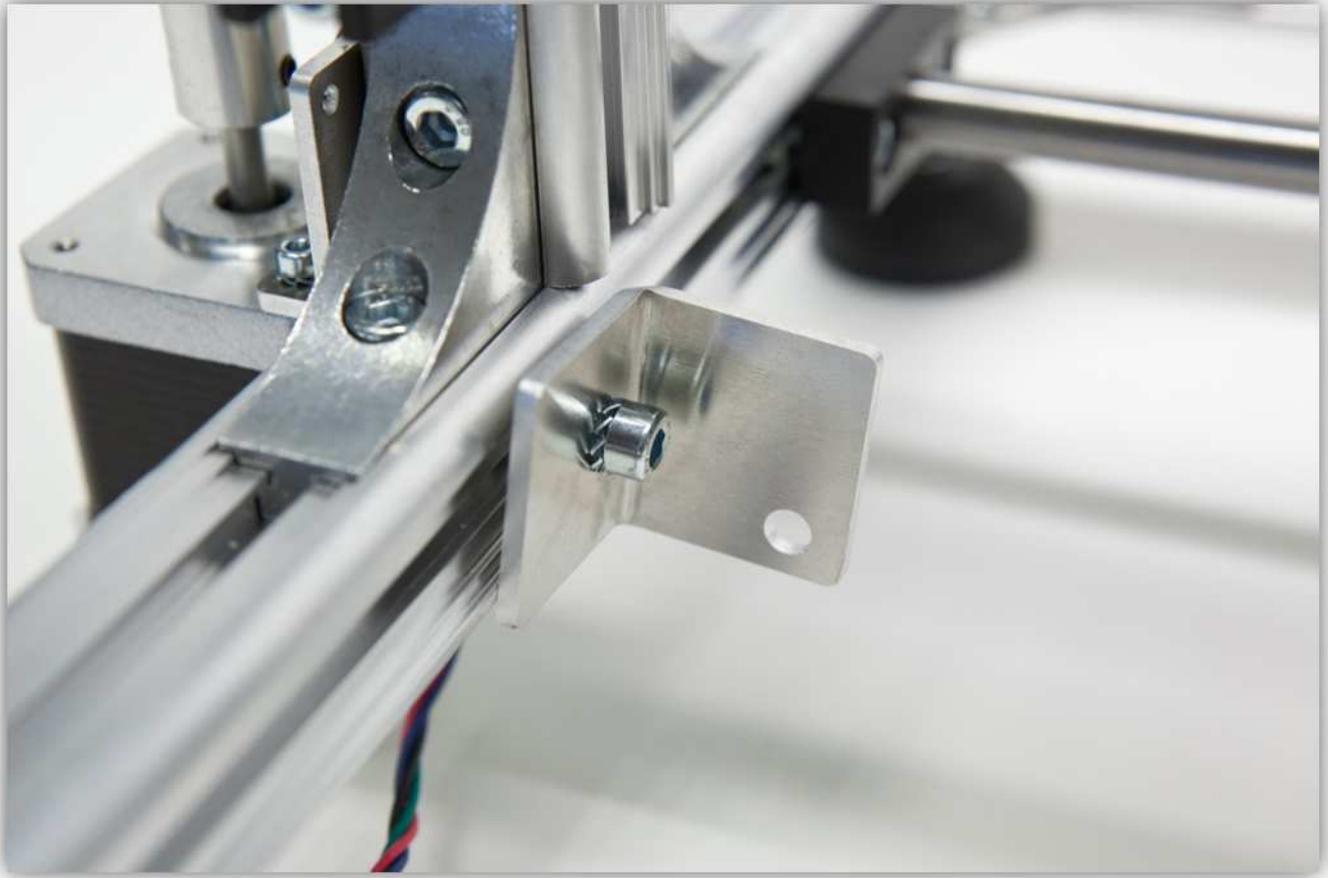
Take the two X BELT CLAMPS, 4 M4 bolts, 4 M4 toothed washers and 4 M4 nuts. Bolt the X BELT CLAMPS as shown to the X CARRIAGE. **Notice the orientation of all the components.**





Take the short M5 bolt and an M5 toothed washer and screw the X PULLEY BRACKET to the square nut on the left side of the base frame you put there earlier. **Do not fully tighten the bolt.**





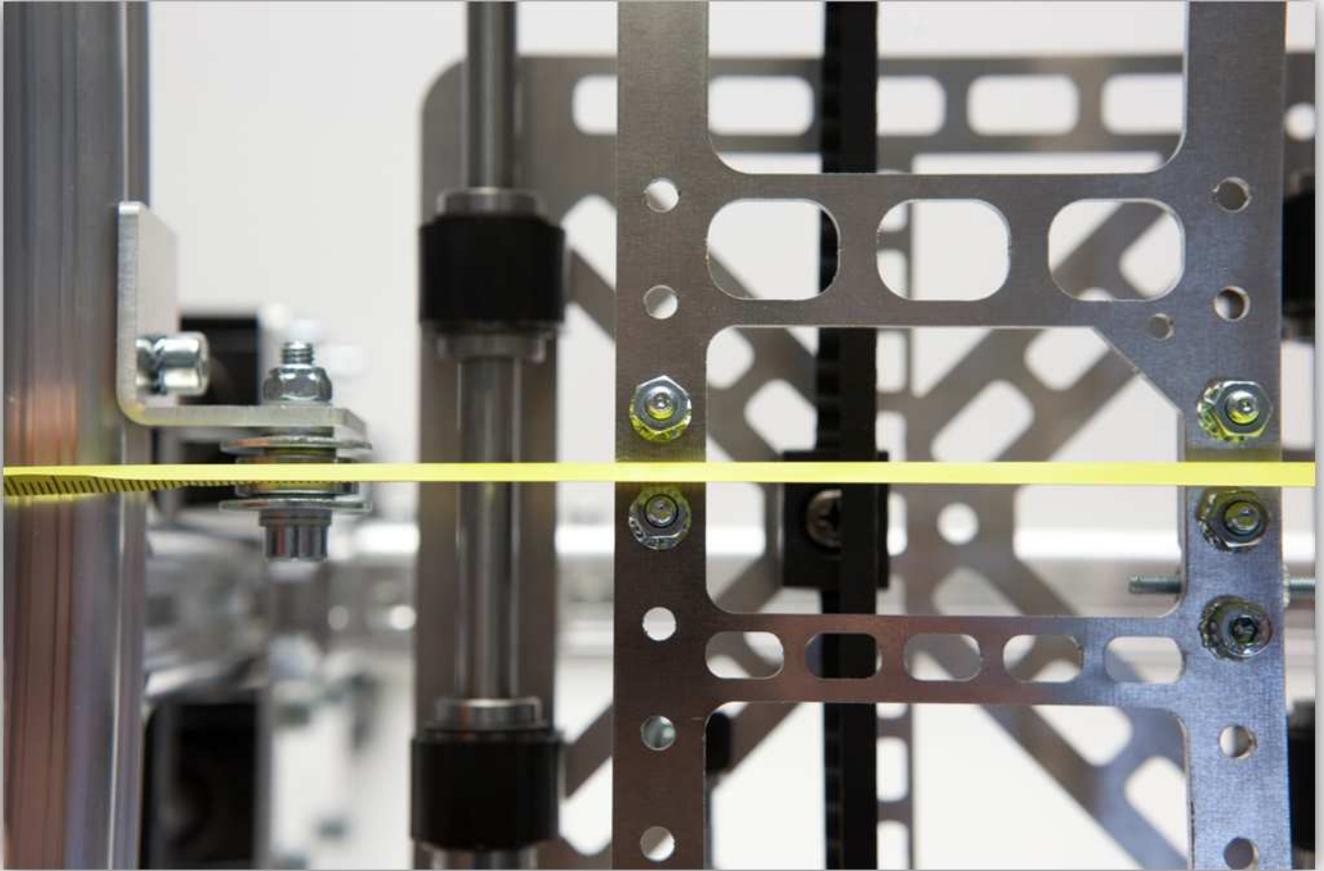
Take the large M5 bolt, 6 small M5 washers, 2 large M5 washers and 1 625 bearing. And assemble the following:



Use an M5 locking nut and an M5 washer to bolt this assembly to the X PULLEY BRACKET as shown in the picture below.



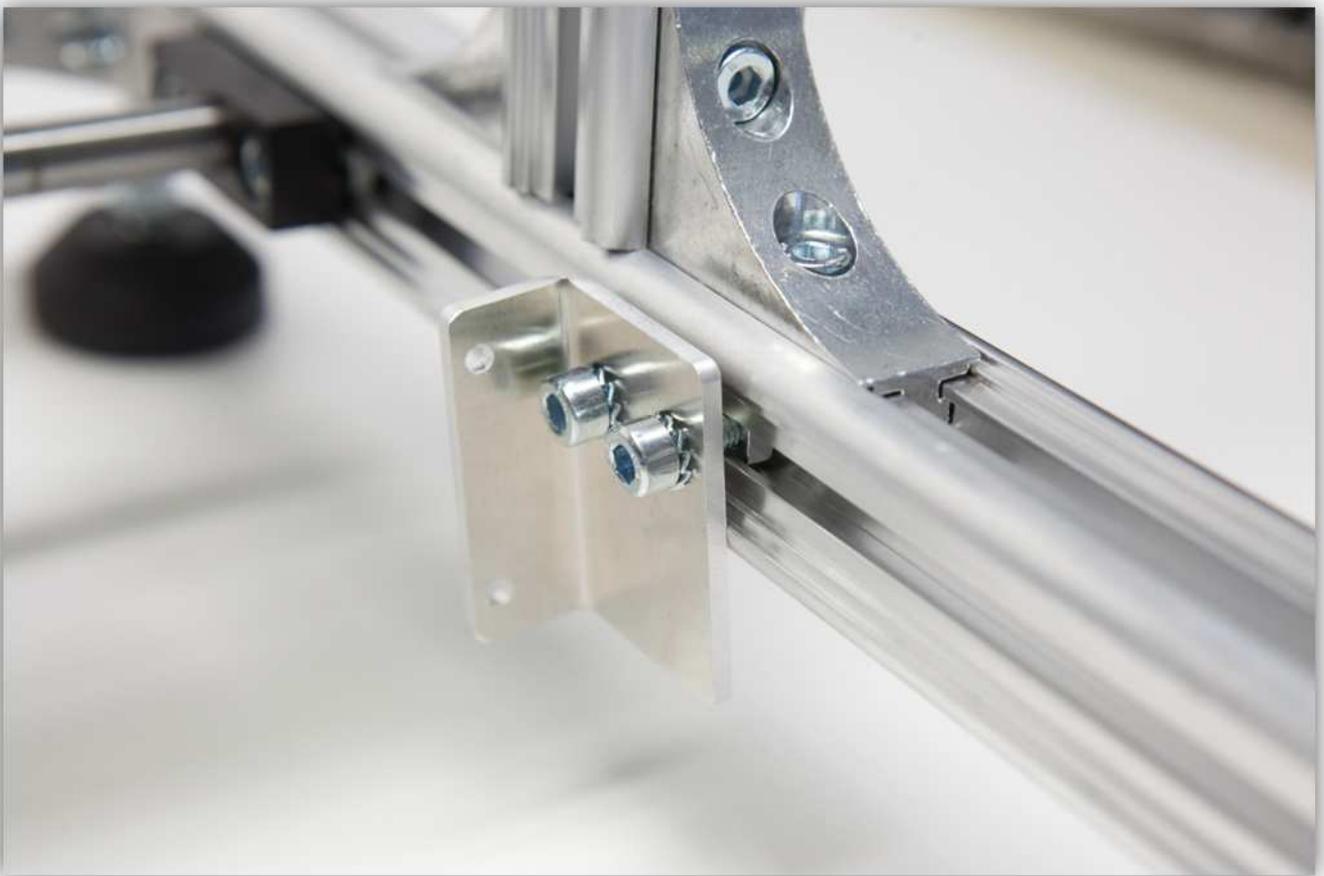
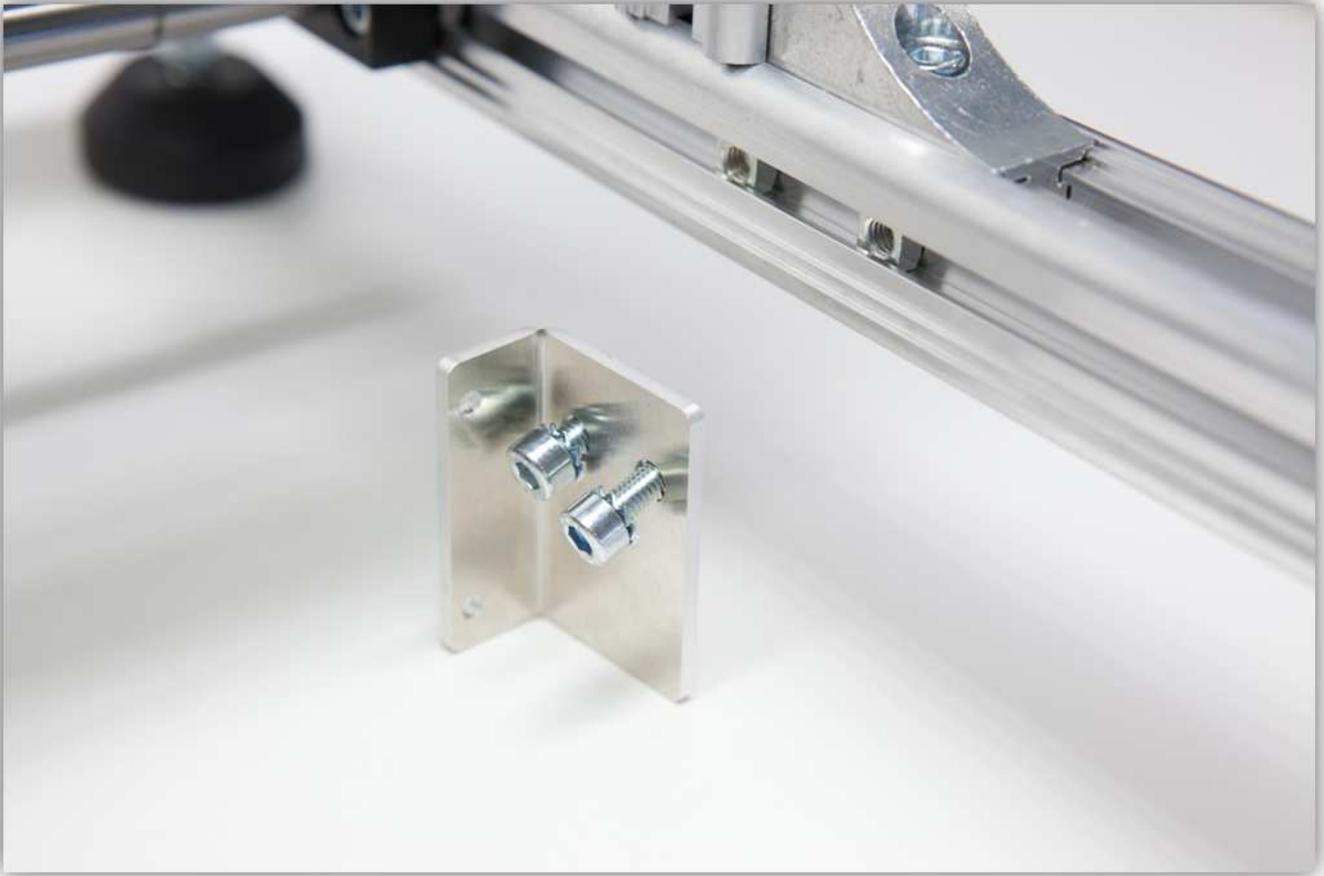
As you look from the bottom, the X BELT CLAMPS and the X pulley should be in one line. Slide the X PULLEY BRACKET until it is in one line with the two X BELT CLAMPS and then tighten the bolt holding it to the base frame. **Make sure it is perfectly horizontal.**





Take two short M5 bolts and two M5 toothed washers and screw the X MOTOR BRACKET to the 2 square nuts on the right side of the base frame you put there earlier. **Do not fully tighten the bolts.**





Take the small M3 locking bolt and screw it into the X TOOTHED PULLEY. Do not screw it in completely.

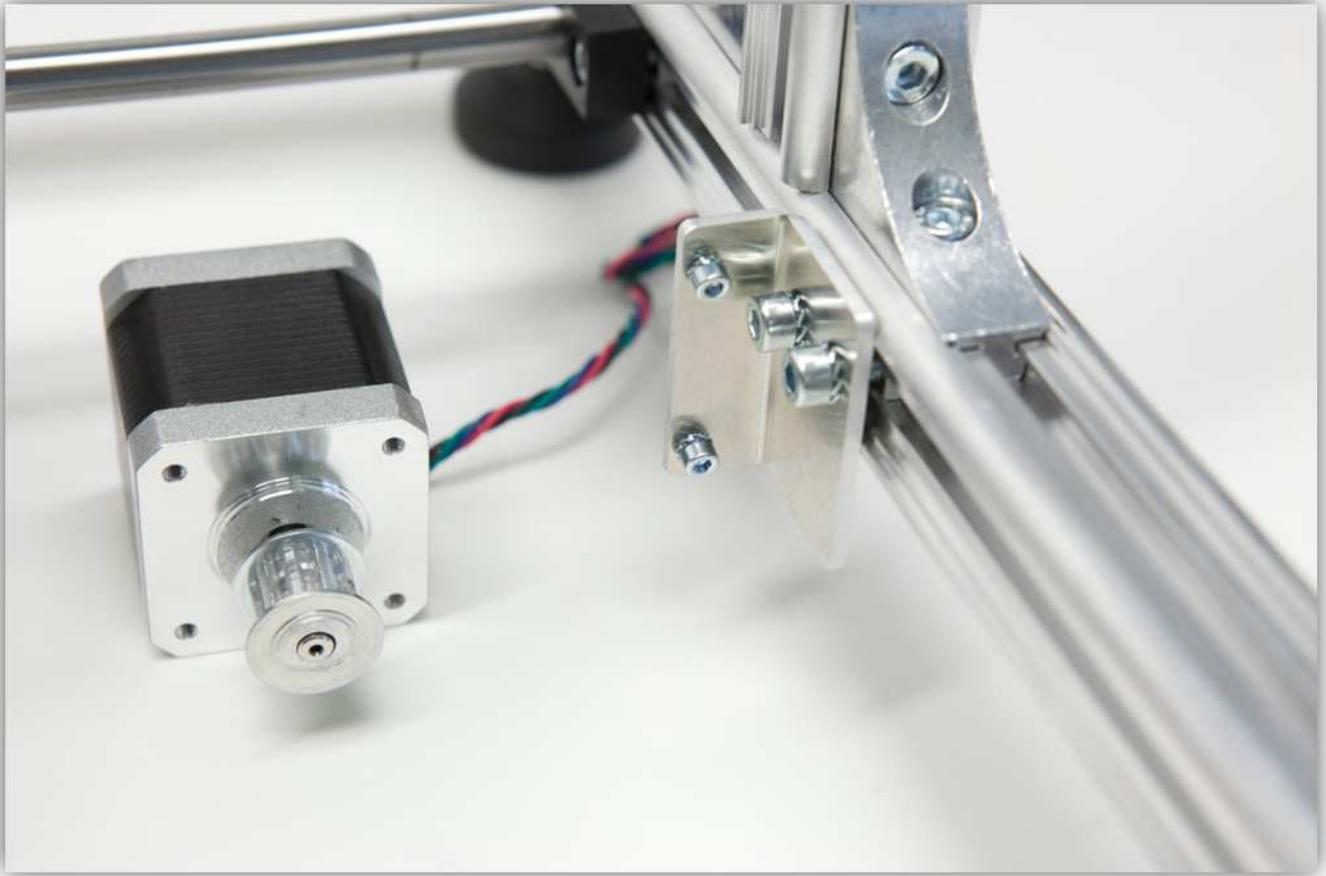


Slide the toothed pulley over the shaft of the motor and tighten the small M3 bolt. **Watch the orientation of the pulley closely and make sure it is flush at the top.**

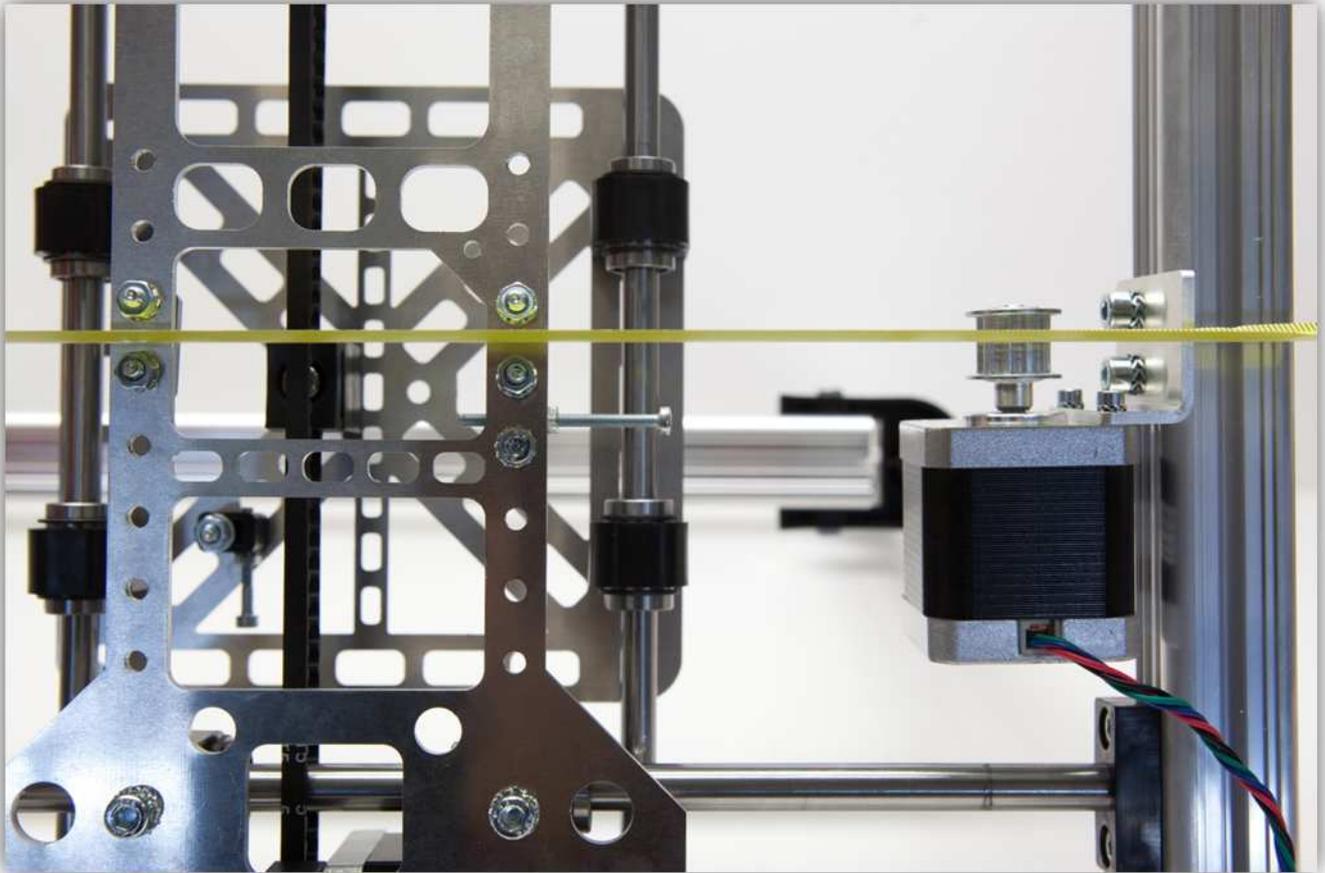


Take the 2 M3 bolts and the M3 toothed washers and use them to bolt the motor in place.

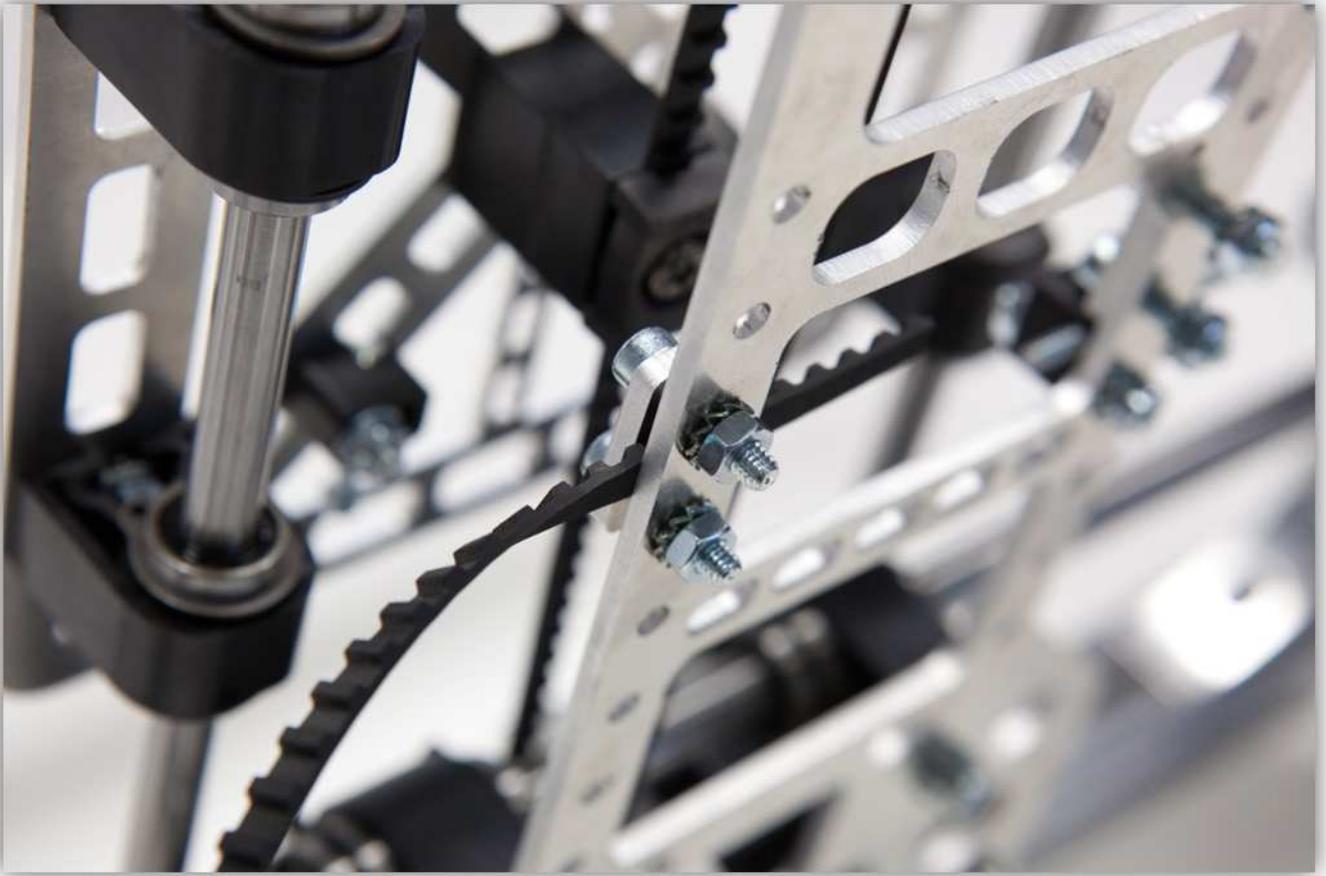




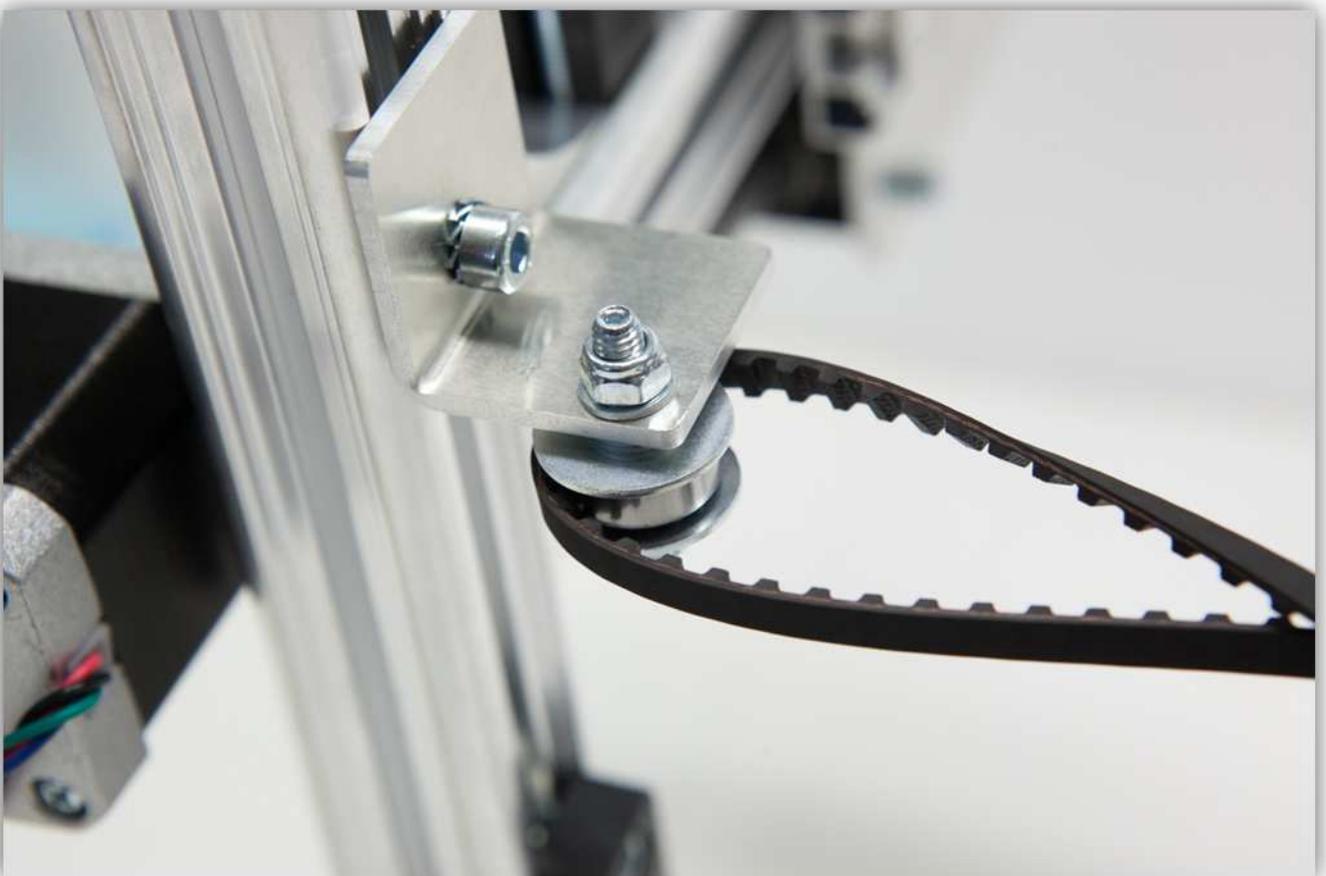
The pulley of the motor should be in line with the 2 X BELT CLAMP pieces. Slide it in place and tighten the bolts. **Make sure it is completely level.**



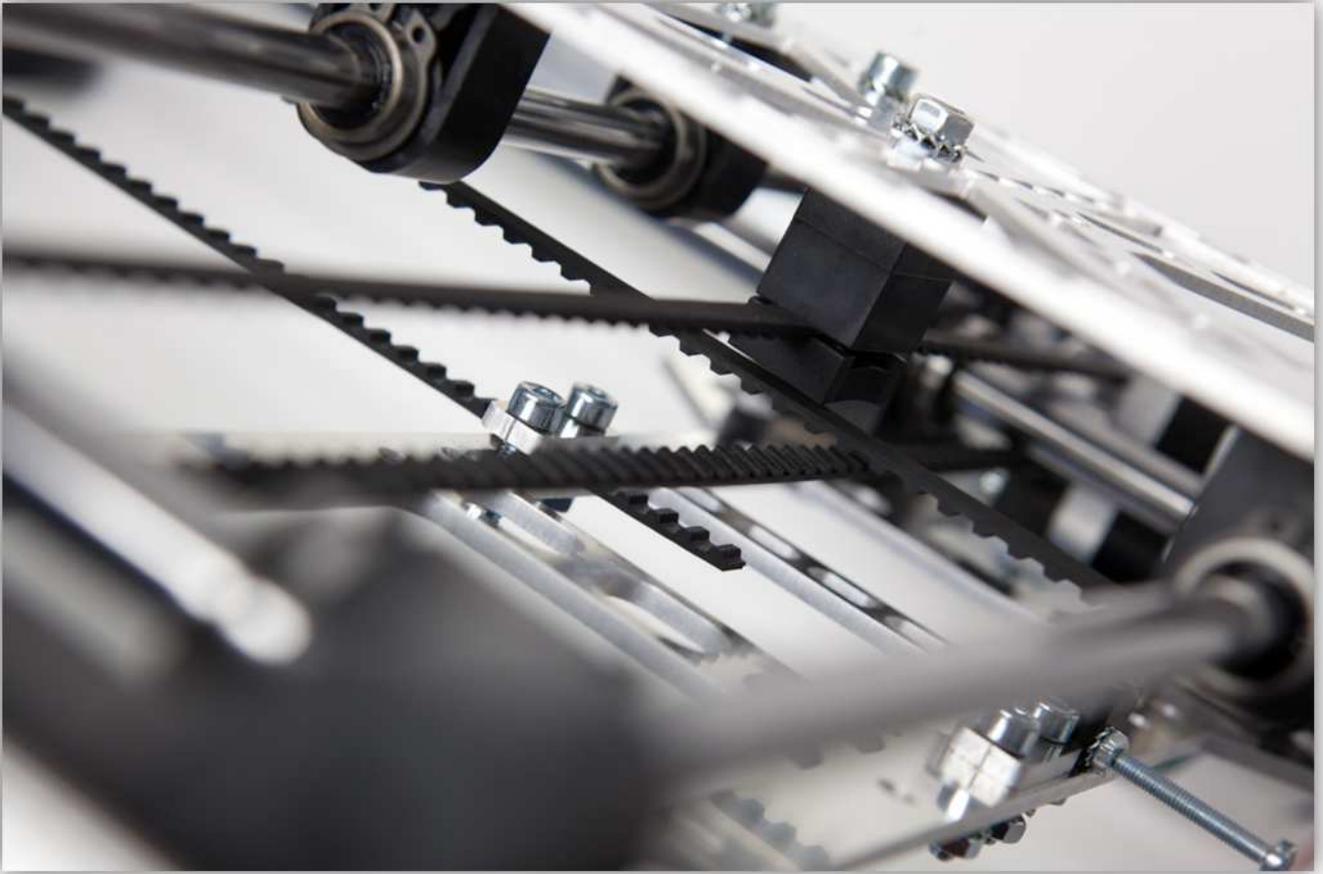
Now clamp the end of the belt into the leftmost X BELT CLAMP. Tighten the nuts.



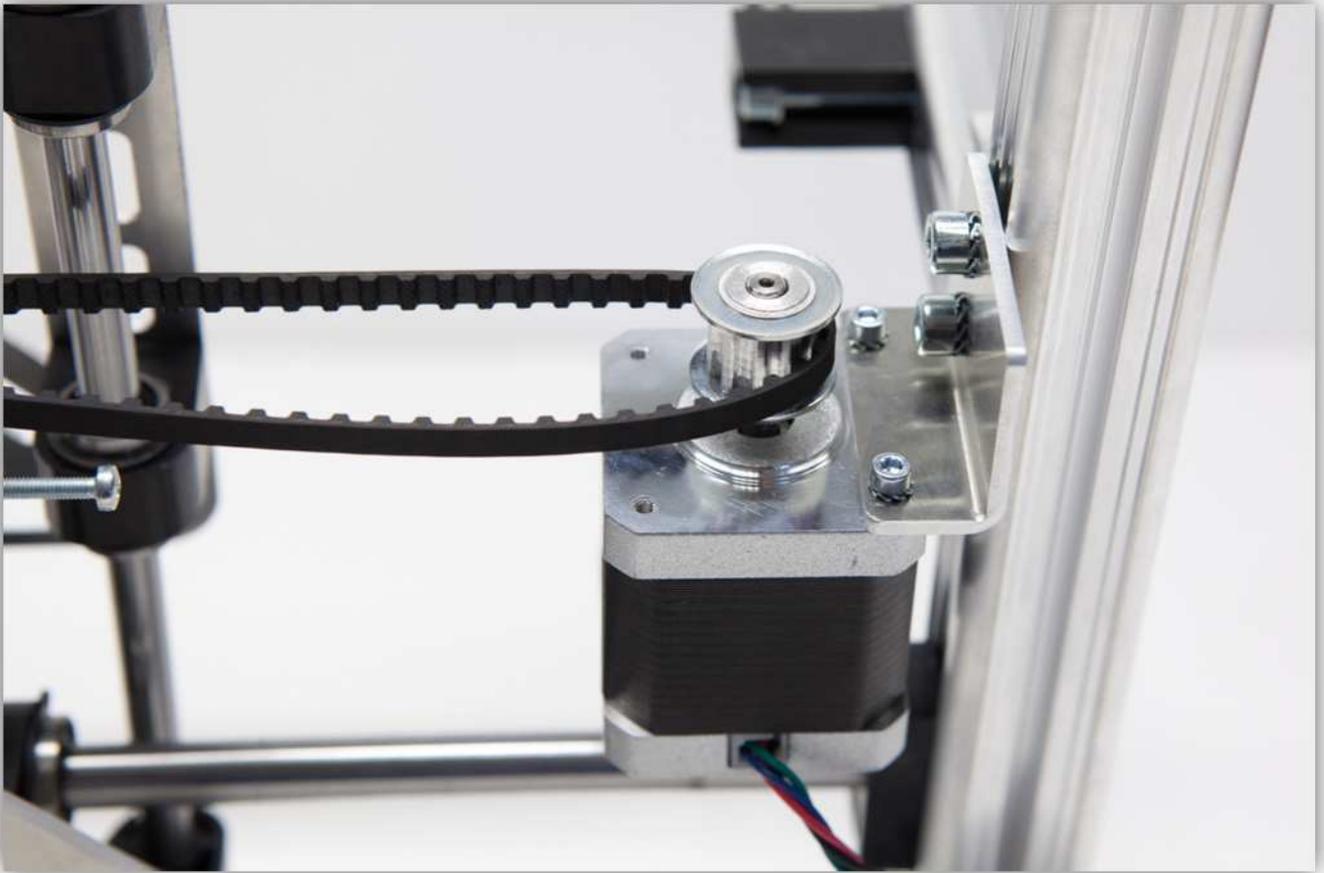
Thread the belt around the pulley.



Loop the belt through the Y belt,



and around the motor pulley.



Clamp the end of the belt between the X BELT CLAMP on the right. Pull tension on the belt before tightening the nuts on the X BELT CLAMP.



