

SUMPOD DELTA

Build Manual - Mechanical

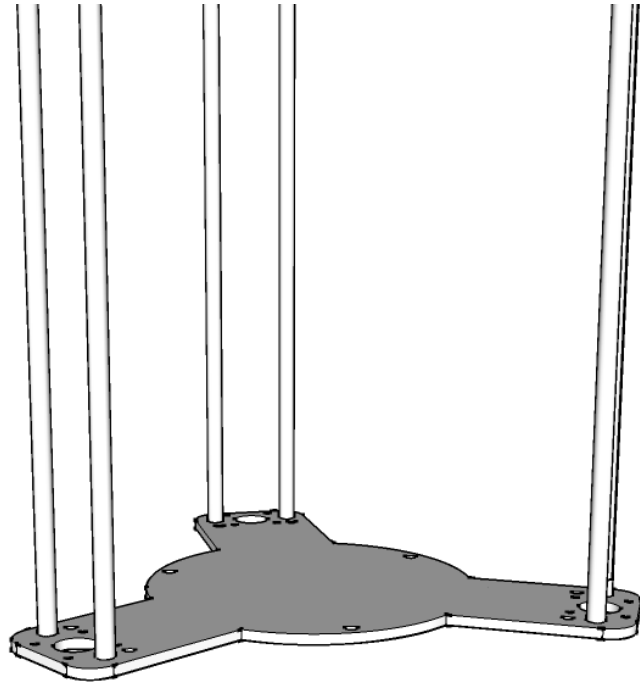
Version 1

This is a manual showing the mechanical build steps.

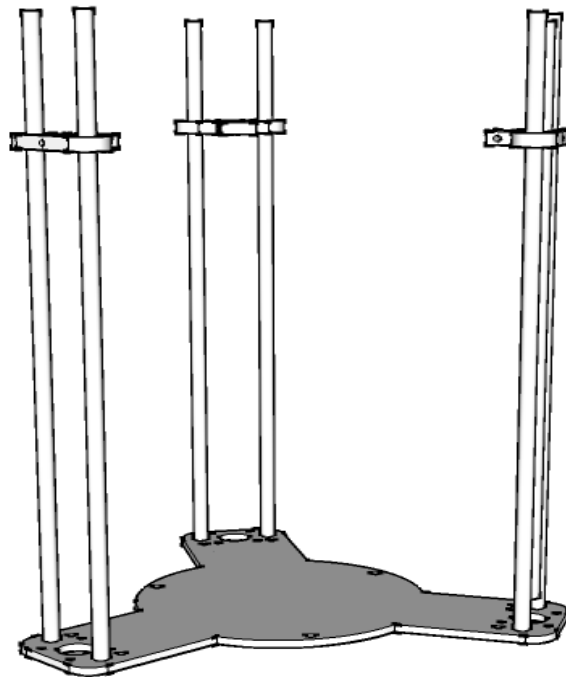
Please ensure safe practices are followed when building, given the weight .

It is advised that two people are needed to build the machine.

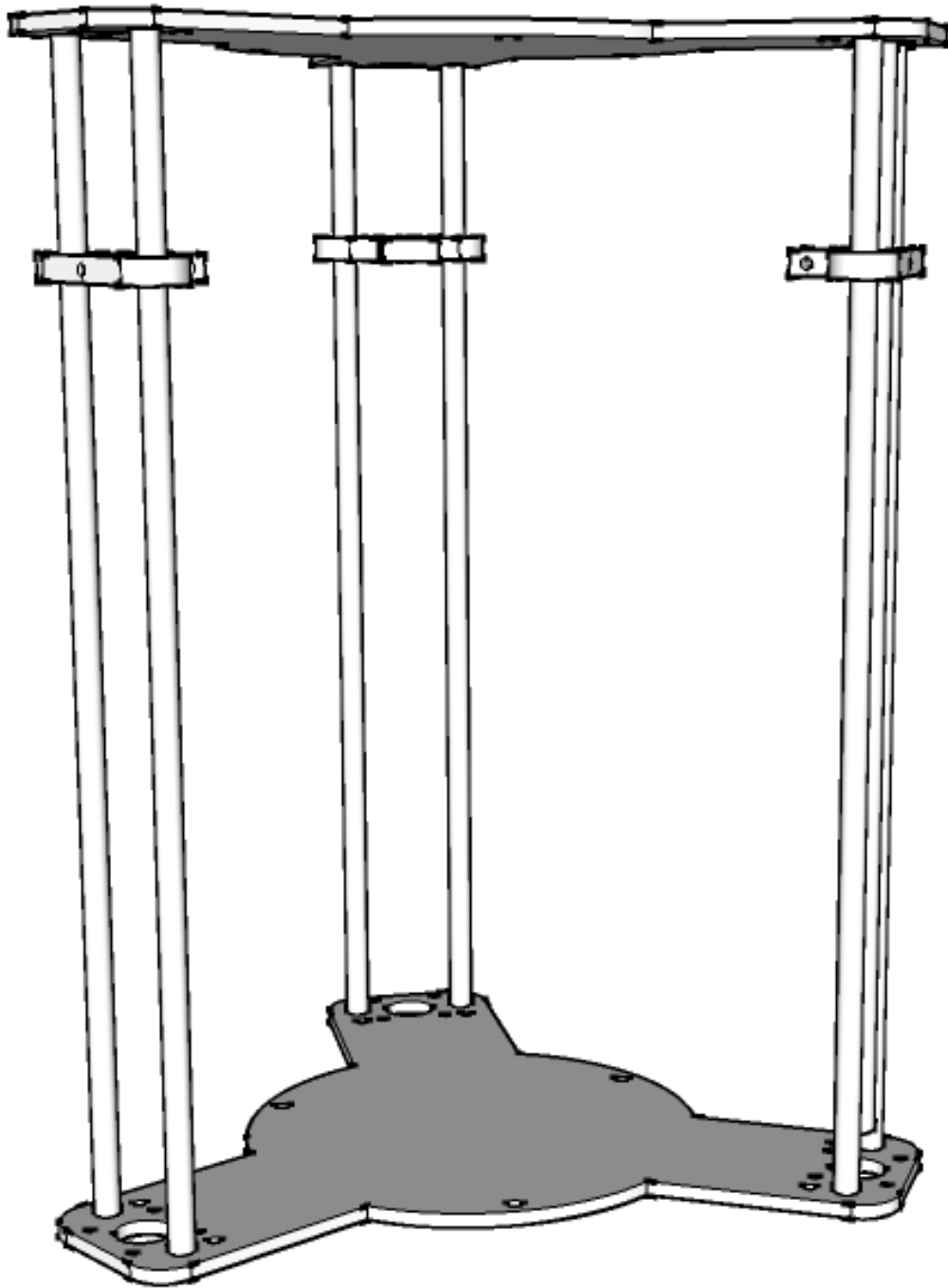
To make the build easier, please clean all screw holes first with a small drill bit or file. It is not necessary to file the 10mm holes for the rods as a tight fit is desirable.



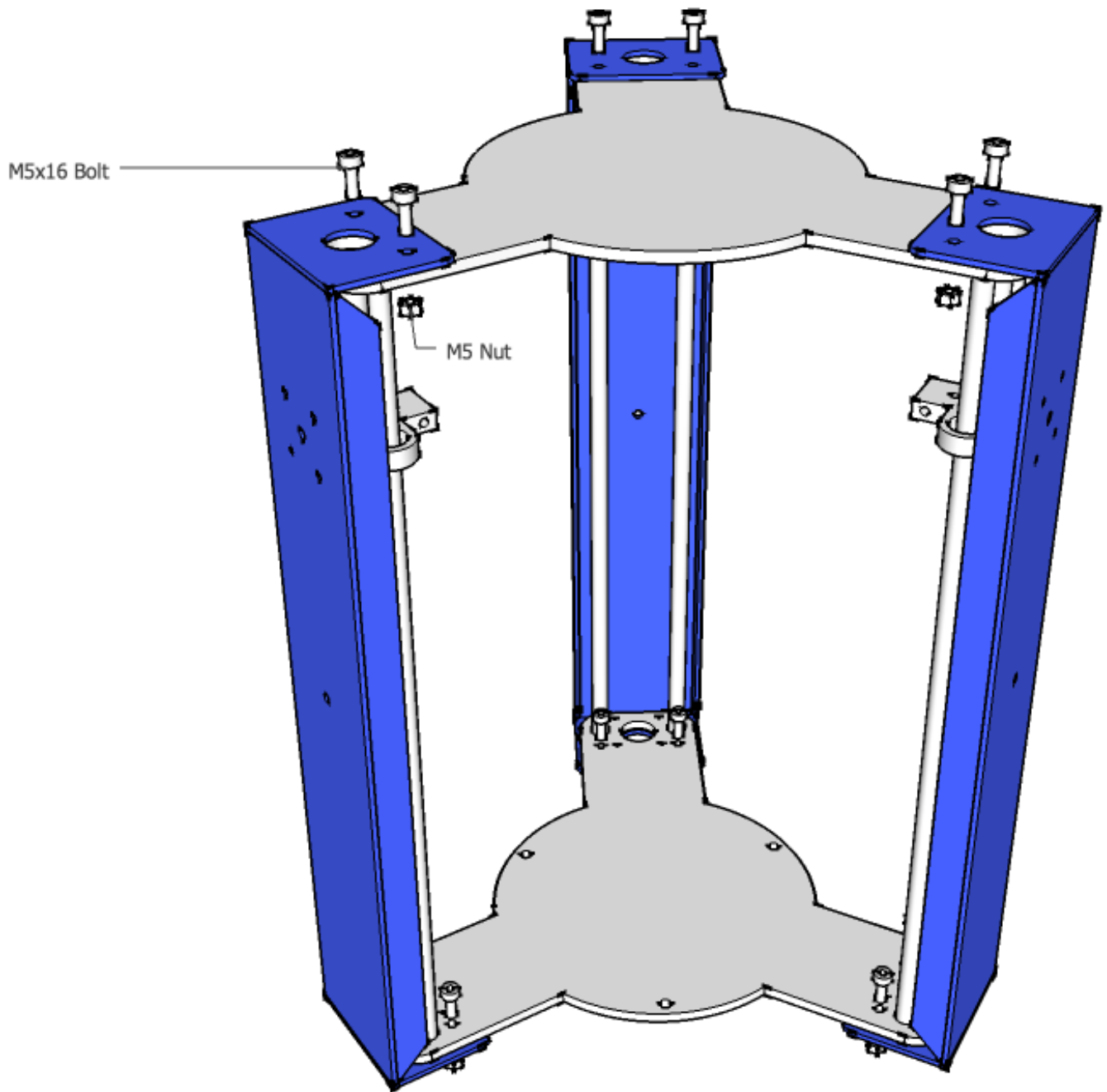
To begin first push the rods into the base plate, ensuring they are flush with the underside. You can tap these in with a hammer.



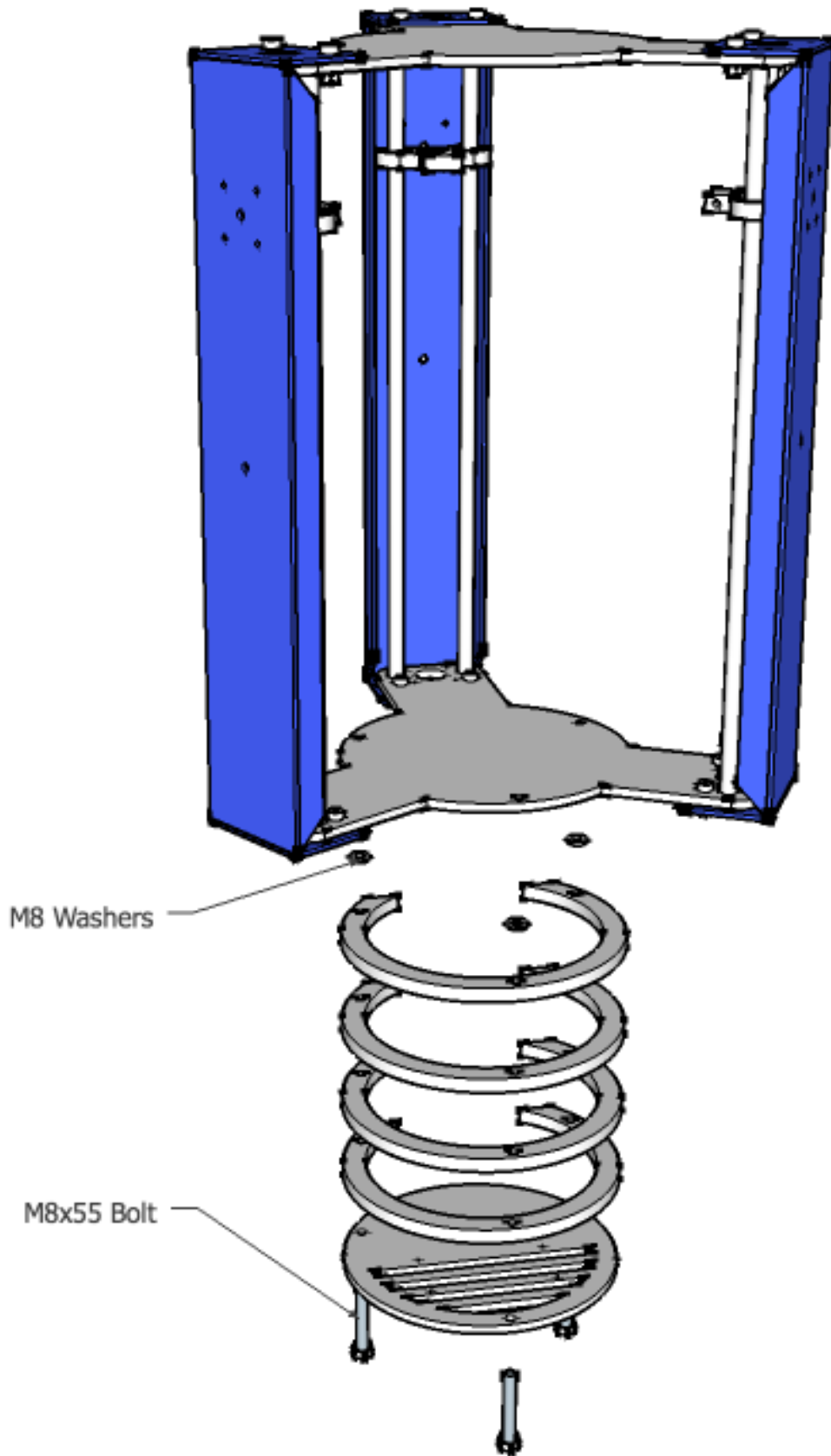
Next place the three bearing blocks onto the rods so that the top of the bearing blocks are flush.



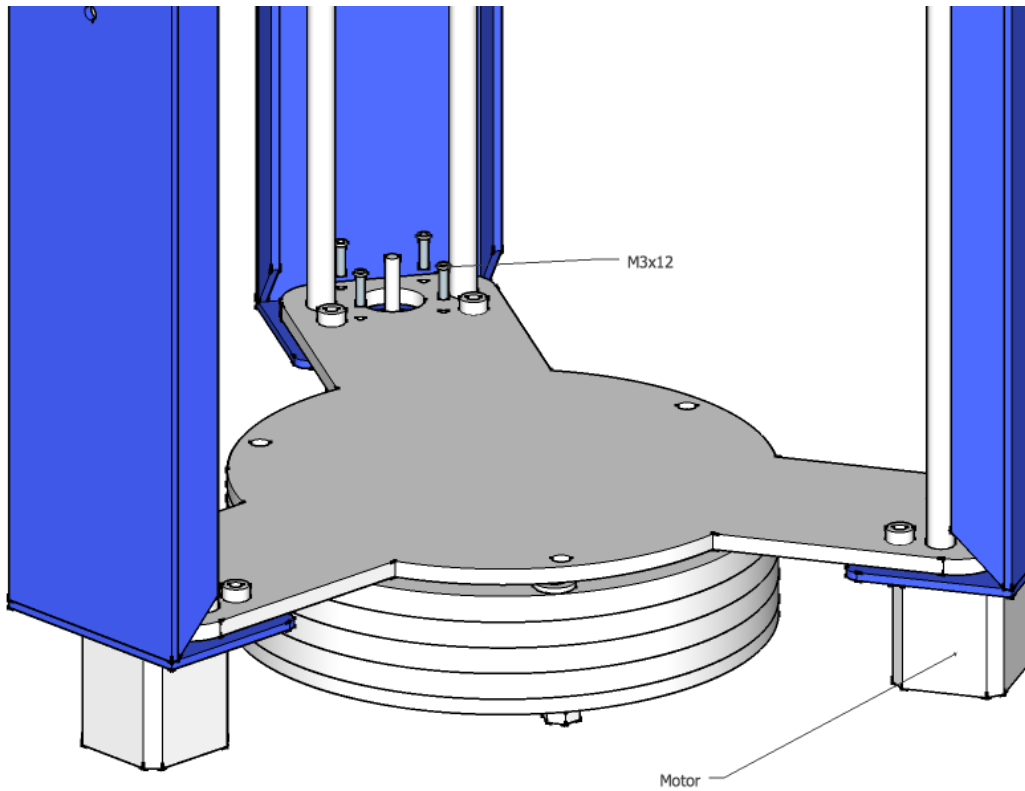
When installing the top ensure the rods are flush. You can use a hammer and a small piece of wood to tap it in place. It is designed to be tight.



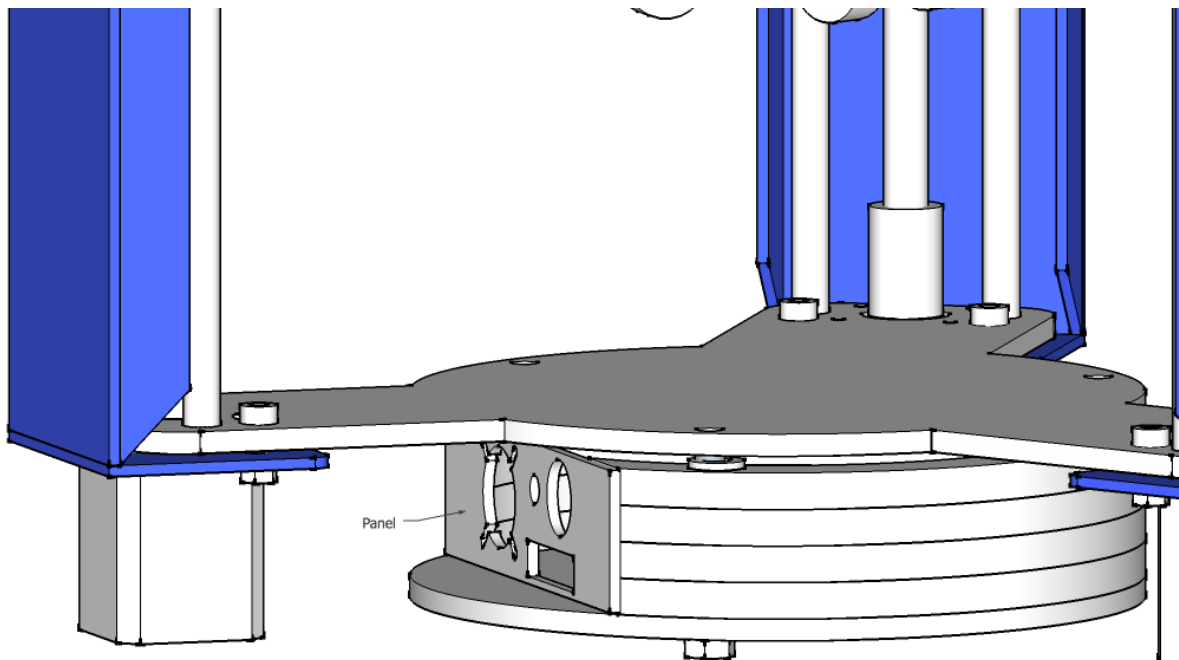
Once the top and bottom plates are installed flush put on the supporting sides.



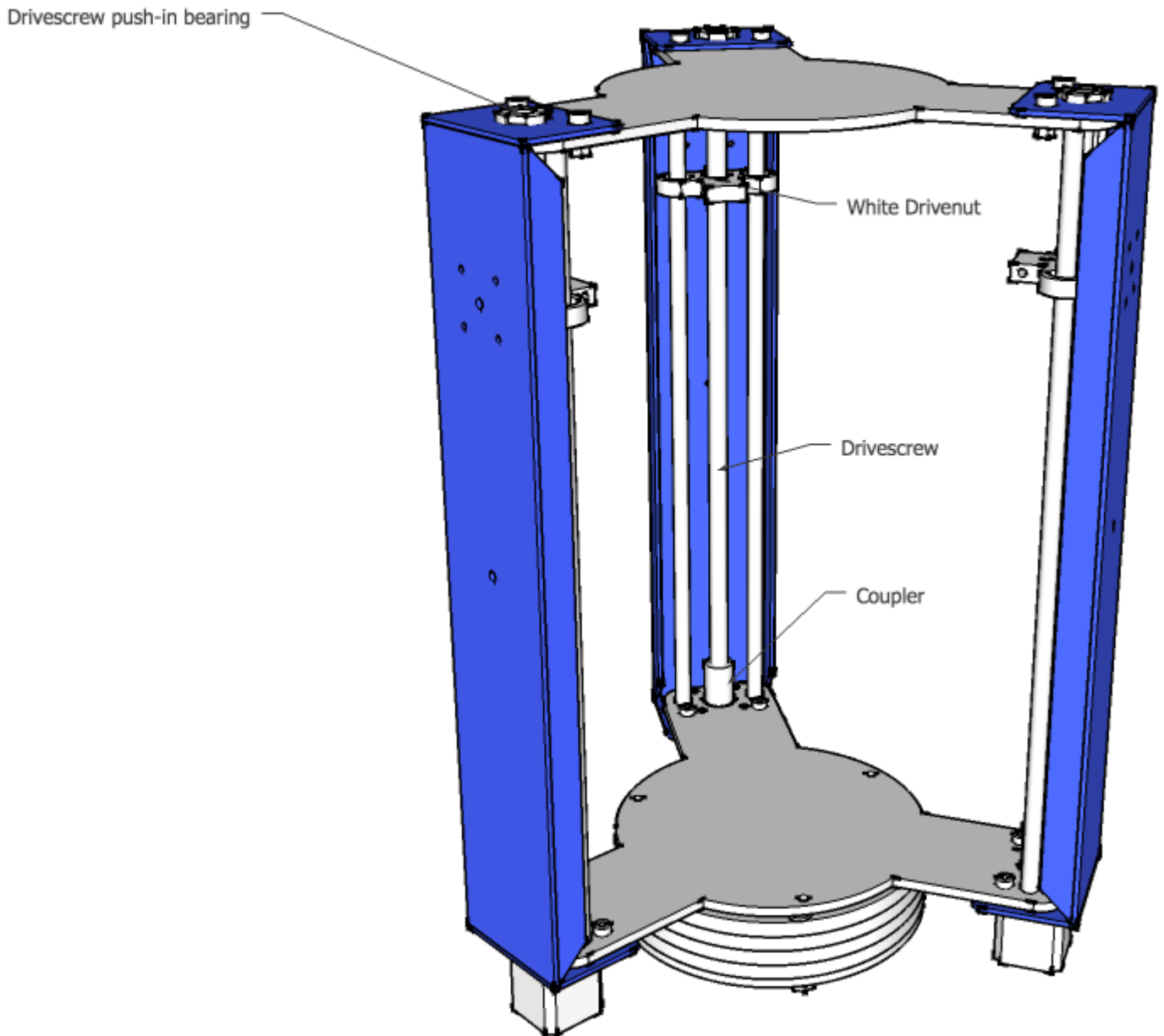
Don't forget the washers when installing the base. These are used to make a gap for the motor and endstop cables.



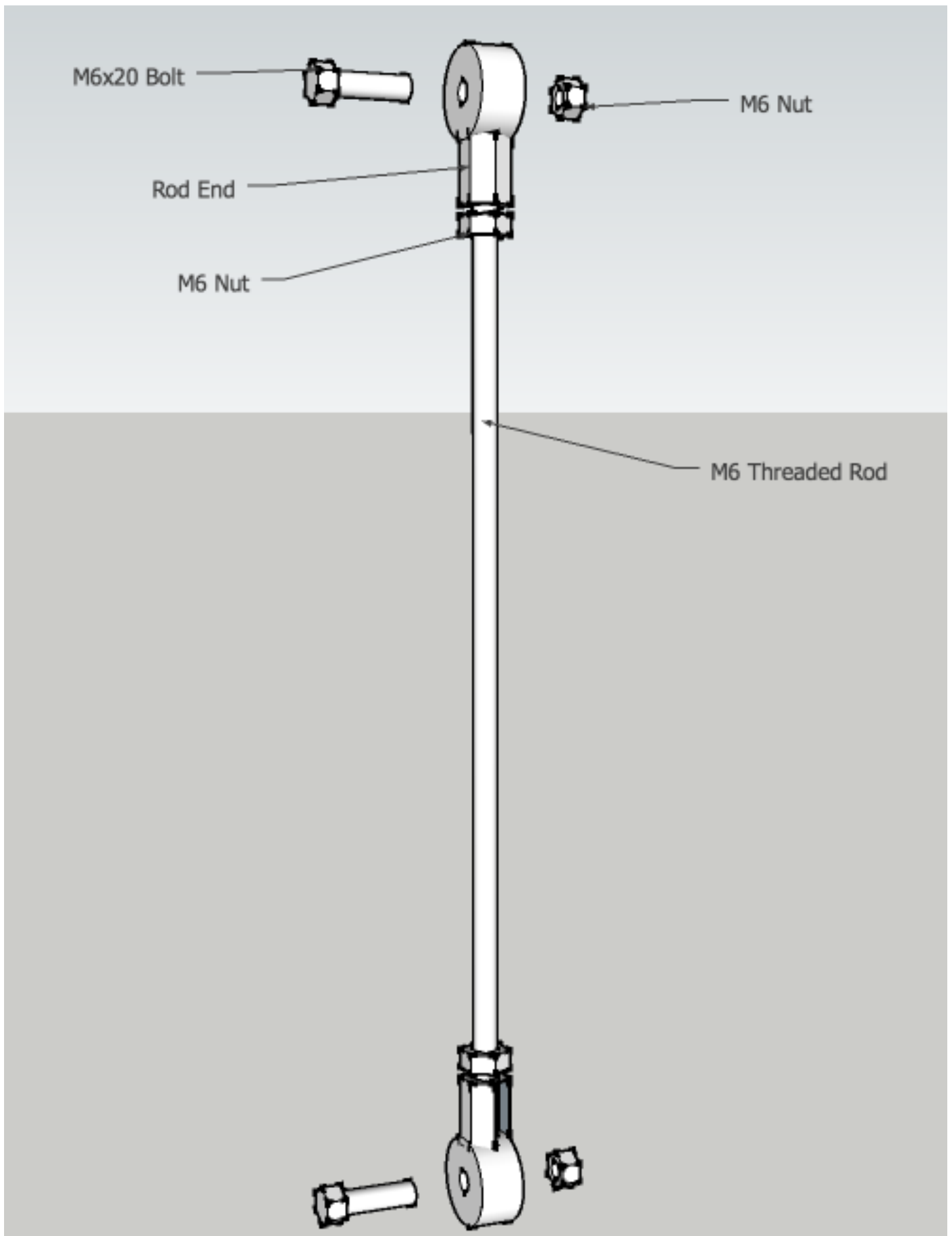
The motors are held in place using M3x12mm screws. Ensure the holes are clean first with a 3mm drill bit or small file.



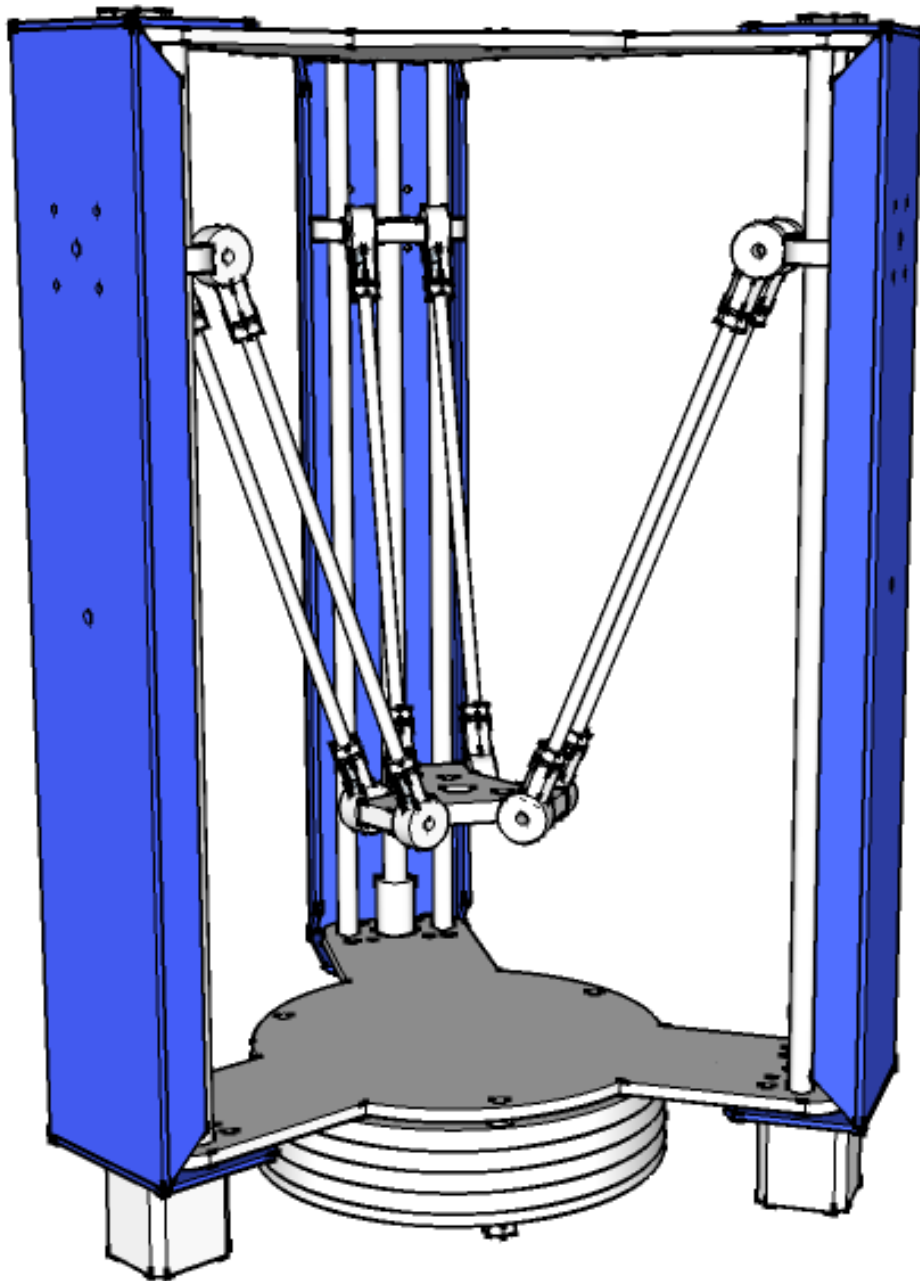
The panel is held in place using double sided tape.



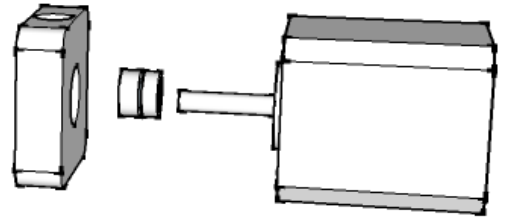
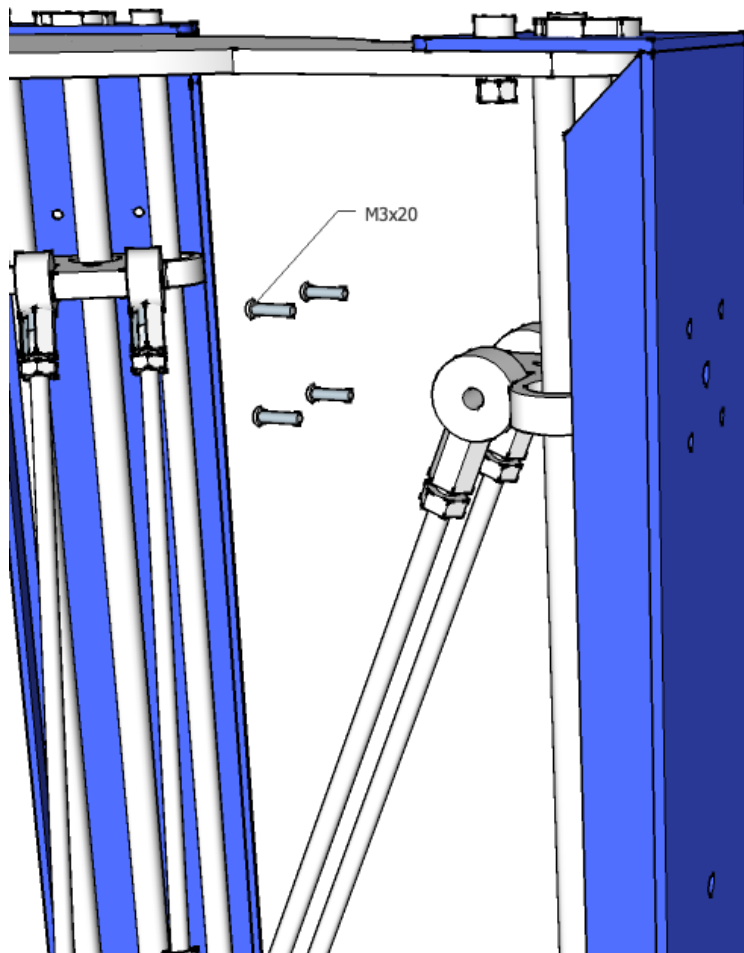
Once the motors are in place slide in the drivescrews ensuring the white drive nut is placed on each and held in place using a grub screw.



Make up the rods ensuring that all six are the same length. This length will be used in the firmware.



Once the rods are made install them by bolting each one to the holes provided as illustrated in the drawing.



First install the hobbled gear onto the motor shaft using the grub screw and then mount the feeder using M3x20 screws.

