Part 5

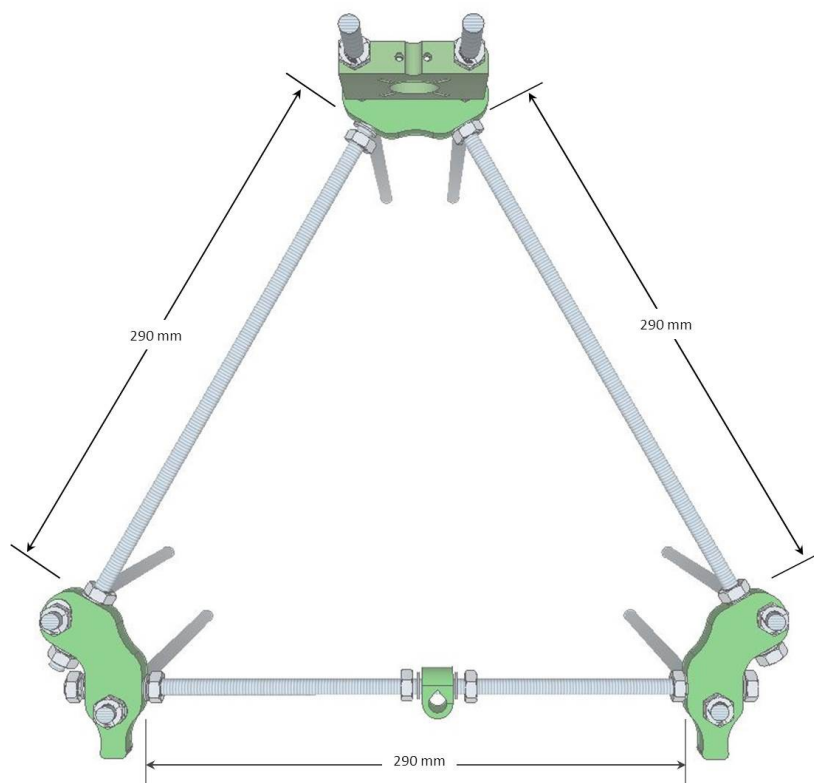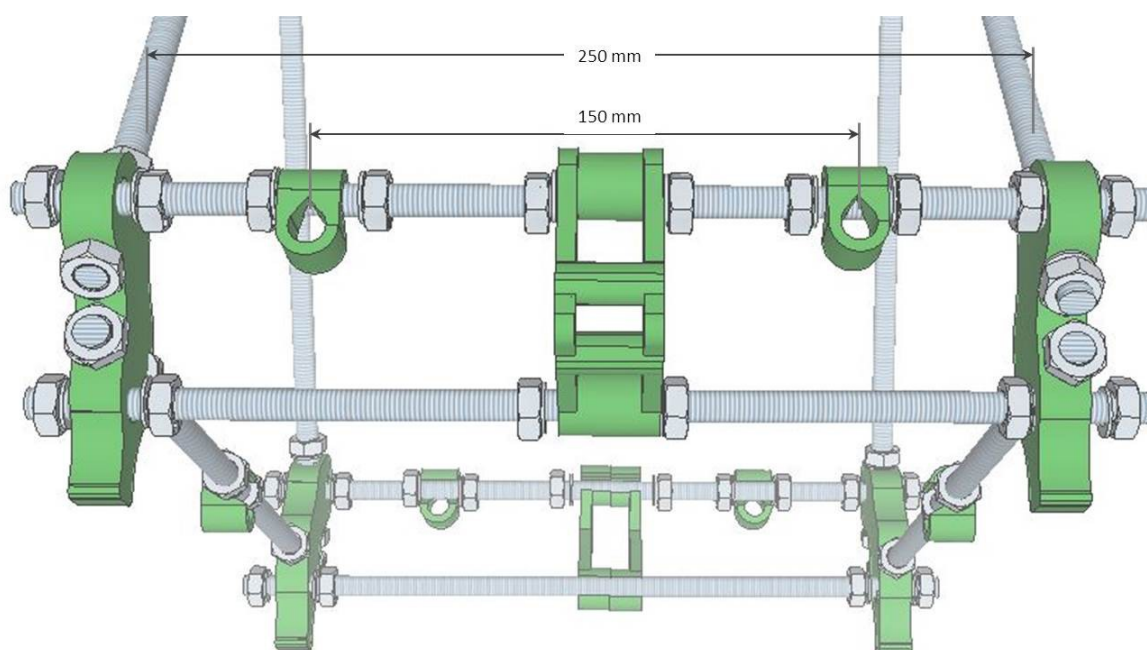
Tightening the Frame

1

Verify that the triangle vertices have distance J1 (290mm) from plastic to plastic along each of the three sides. Once you are sure of this, tighten the outer vertex nuts until they are firmly attached and unable to move, but do not crush the plastic parts
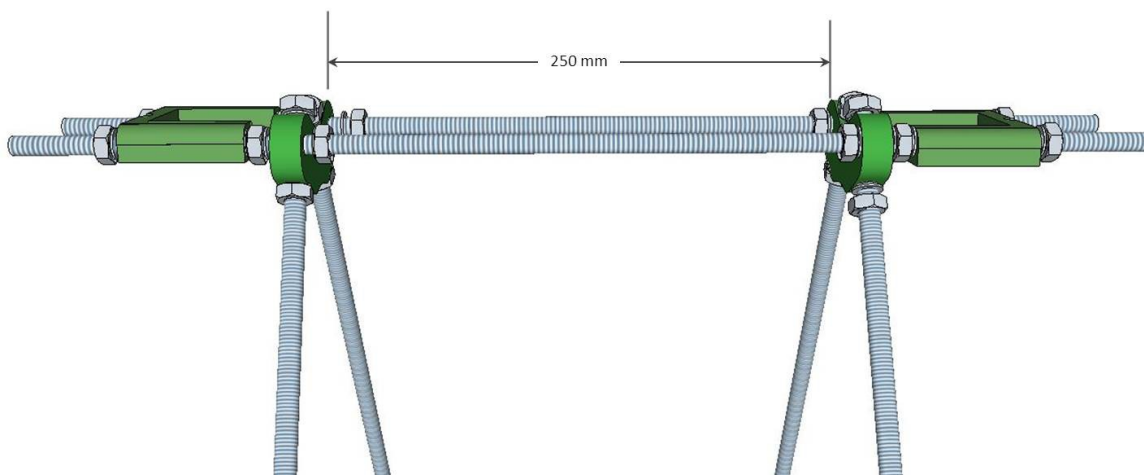

2

Adjust each of the bottom rods until they have the distance 250mm from plastic to plastic between the inside ends of the vertices. Use frame jig to check this if you have it. Once you are sure this is true, **finger** tighten the outer vertex nuts until they are firm but do not crush the plastic. **DO NOT USE A SPANNER.**

Adjust the nuts and bar clamps at each end so they are 150mm between centres and approx 50mm from each vertex. Again finger tighten the nuts about the bar clamps, do not use a spanner.
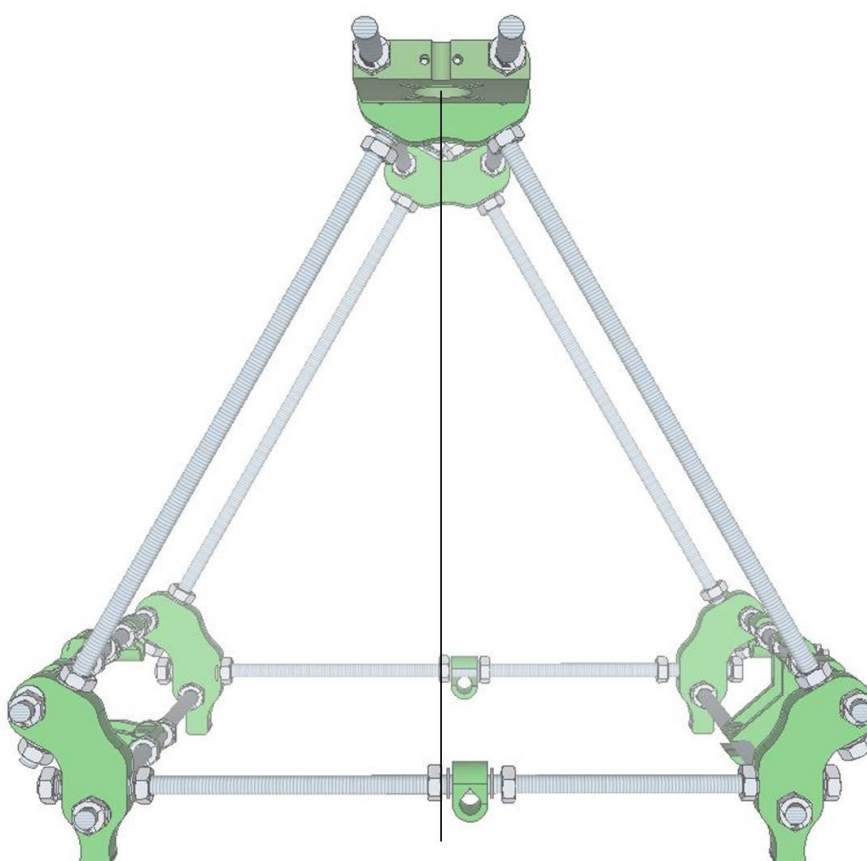
3

Adjust the top of the frame so that the distance between the inside ends of the vertices is precisely J2 (250mm) and the length of rod outside the vertex on one side is the same as the length outside the vertex on the other side. Double-check the distances before finger tightening the nut on the outside of the vertex.
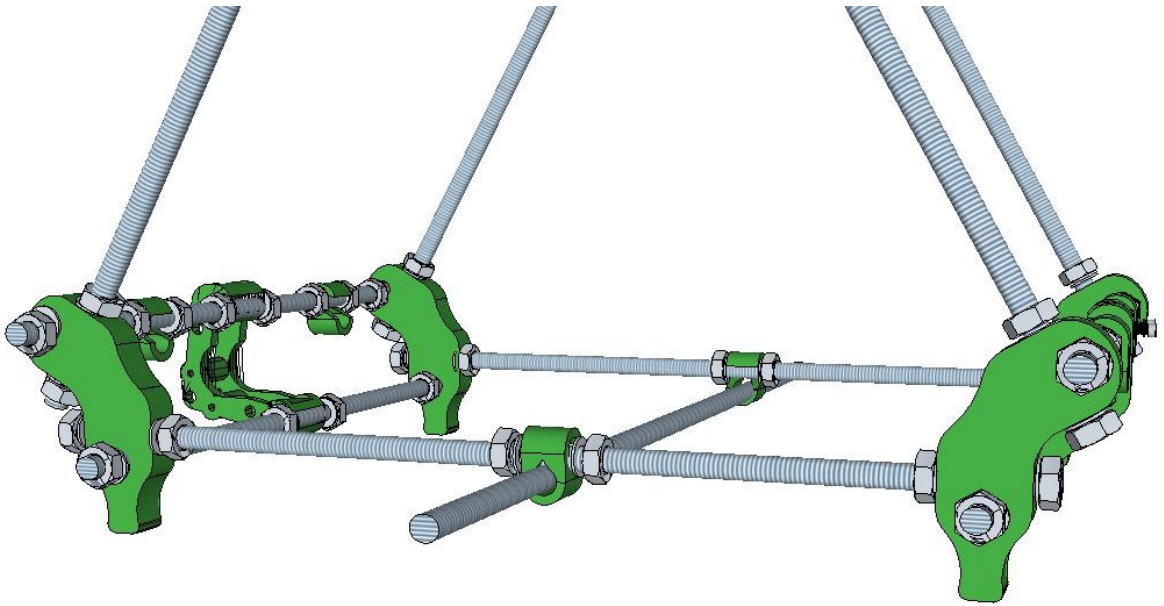
250 mm

4

The frame should now be fairly stable. Using a plumb line or similar (for example a nut hanging on a length of yarn), adjust the bar clamps on the bottom side of each triangle until they are close to centre of the top vertices. Do not tighten the nuts either side of the bar clamps yet. These need to space the 440 mm threaded rod exactly 1 bar clamp from the center line of the bot. This is so the polished z-rods are exactly centred with the bot and run perfectly vertical.
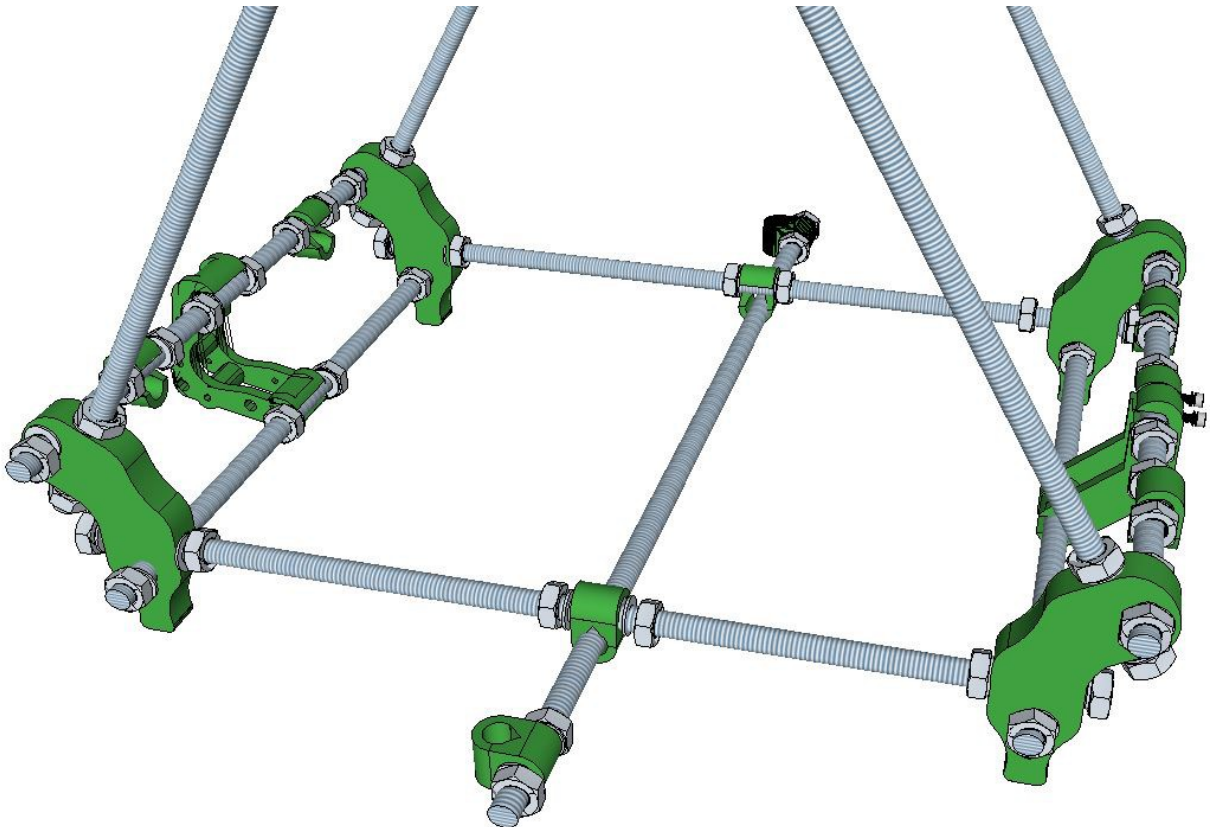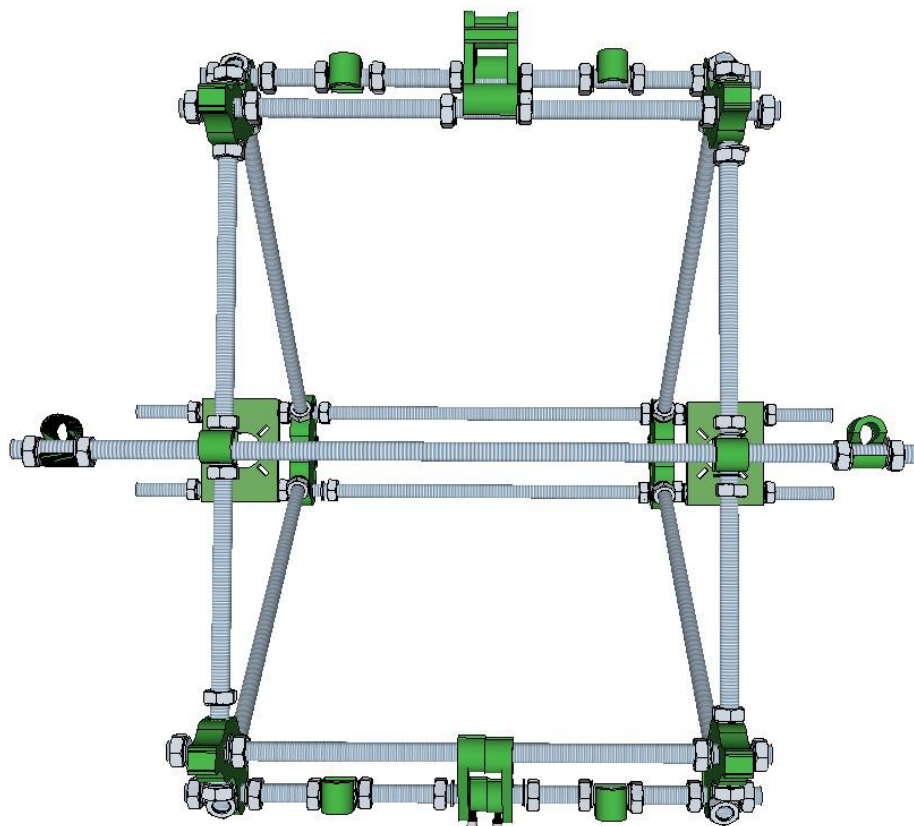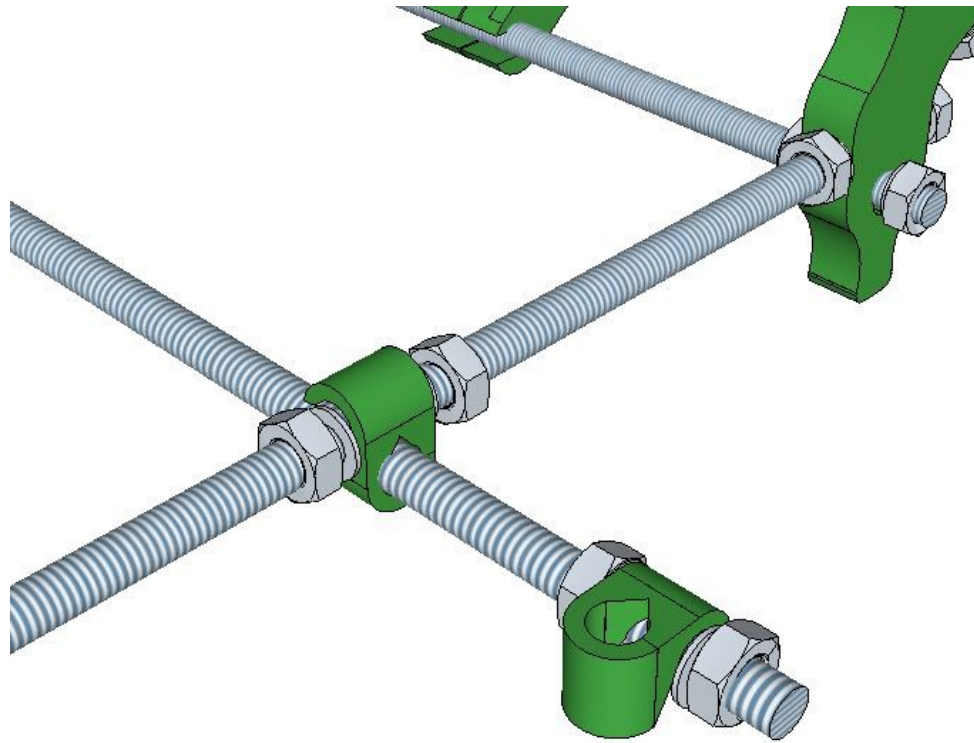
5 Insert the 440mm threaded rod through the two bar clamps on the bottom of the frame. Make sure the new rod is on *bottom* of the triangle bottom rod. Adjust it so that the same length sticks out on each side.

6 On each side, place a nut, washer, bar clamp (threaded through the holes), washer, and another nut. The hole to which should go the z-running smooth rod should be virtually in center of bottom triangle rods.

[View from Below]