

SatNOGS

SatNOGS Tripod v2

A short guide on how to assemble a SatNOGS v2 tripod.

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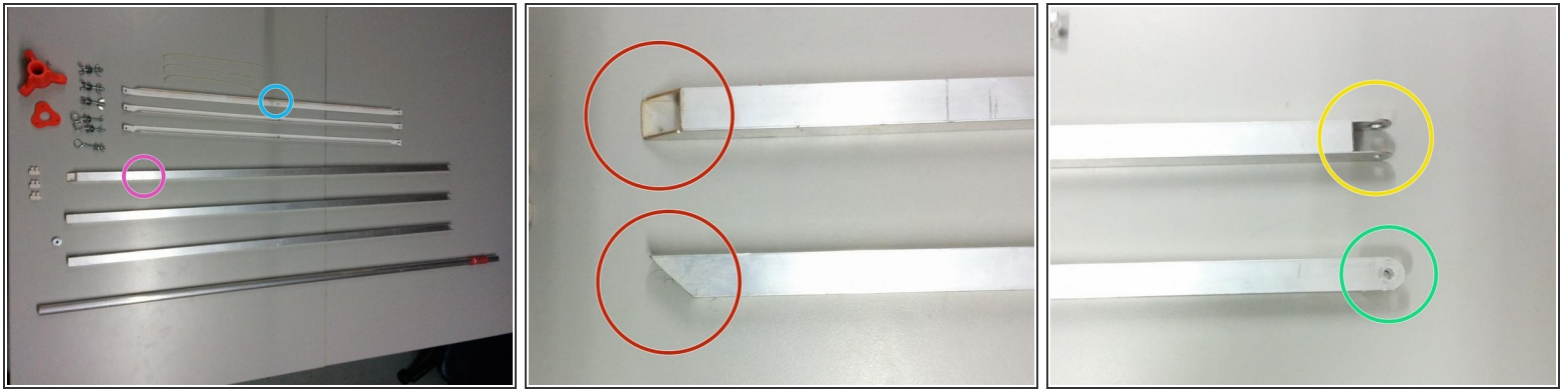


INTRODUCTION

You can find the BOM here:

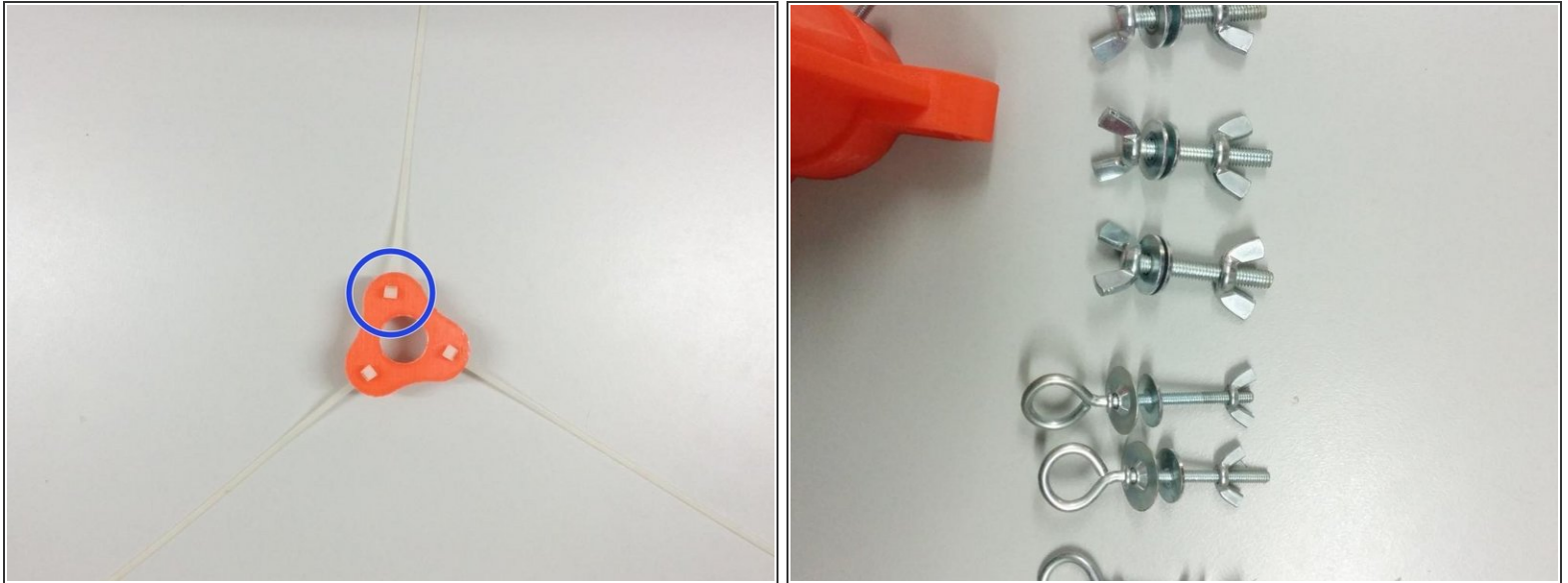
<https://github.com/satnogs/satnogs-tripo...>

Step 1 — SatNOGS Tripod v2



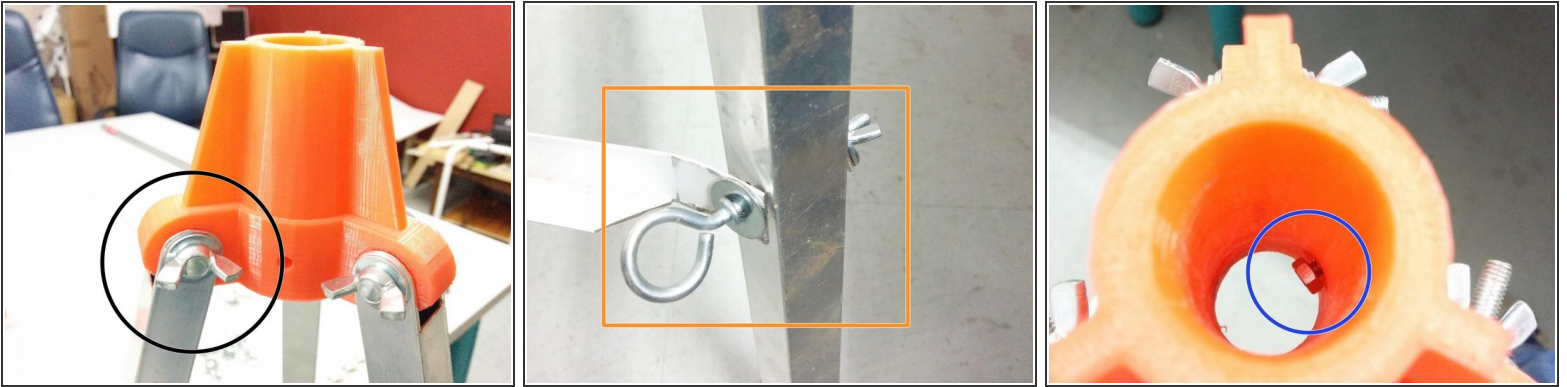
- Start by gathering all the parts. Check the [BOM](#).
- Start by trimming the square beams 45 degrees at one edge.
 - Drill M4 holes 200mm from the 45 degrees cut parallel to the cut.
- On the other end create a notch approximately 25mm long on opposite sides.
 - Then form a round edge and drill a M6 hole in the middle of it.

Step 2



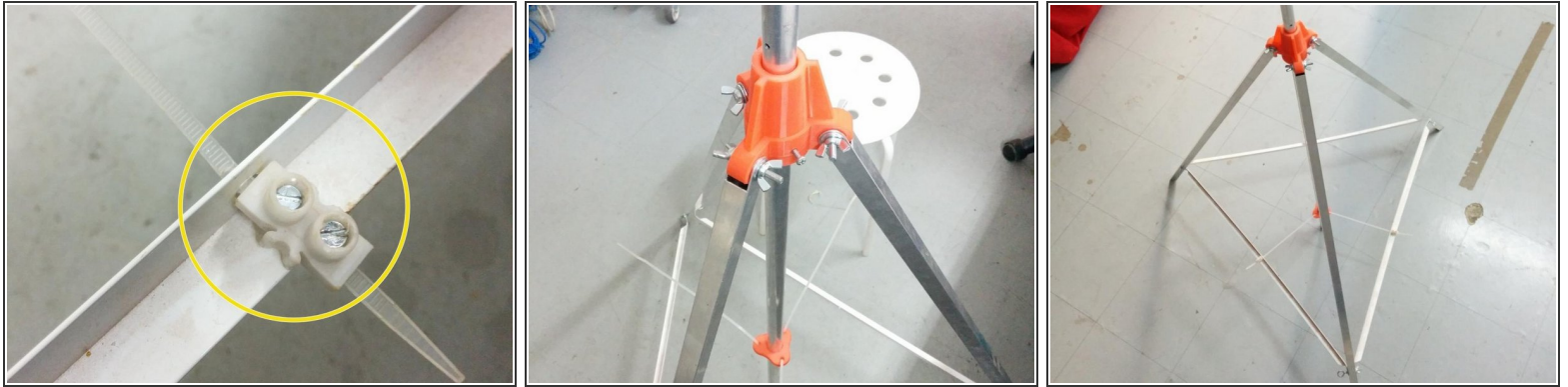
- Assemble the bottom part using the bottom bracket (3D printed) and 3 cable ties as shown.
- Prepare the M6 and M4 bolts with washers and nuts. They will be handy for quickly assembling next step.



Step 3



- Assemble the top part using the top bracket (3D printed) and the M6 bolts as shown.
- Cut the sides of the L channel aluminum beams on each of their edges by approx 20mm and then bend them gently inwards. Then drill M4 holes on the bended side.
 - Attach the L channel aluminum to the 20x20 aluminum beams as shown using M4 bolts.
- Insert an M4x20mm bolt on the top bracket, and secure it with a bolt in place as shown. This will be used to tighten in place the vertical aluminum tube.

Step 4



- Drill M5 (or what fits) holes on the middle of the vertical sides of the L channel aluminum beams.
 - Pass the cable ties through the holes and secure them using single cable connector strips.
 - Once all 3 ties are in place, slide the $\Phi 22$ aluminum pipe through the top and the bottom 3D printed brackets.
-  Secure and tie all bolts. Adjust the height of the aluminum central pipe if needed.
- Your tripod is now complete!
-  You can disassemble and easily carry the tripod by unsecuring 2 of the 3 cable ties, detaching one side for each of the three L channel aluminum beams and losing the top bracket bolts.