firepickdelta

Assembling the Delta carbon rods

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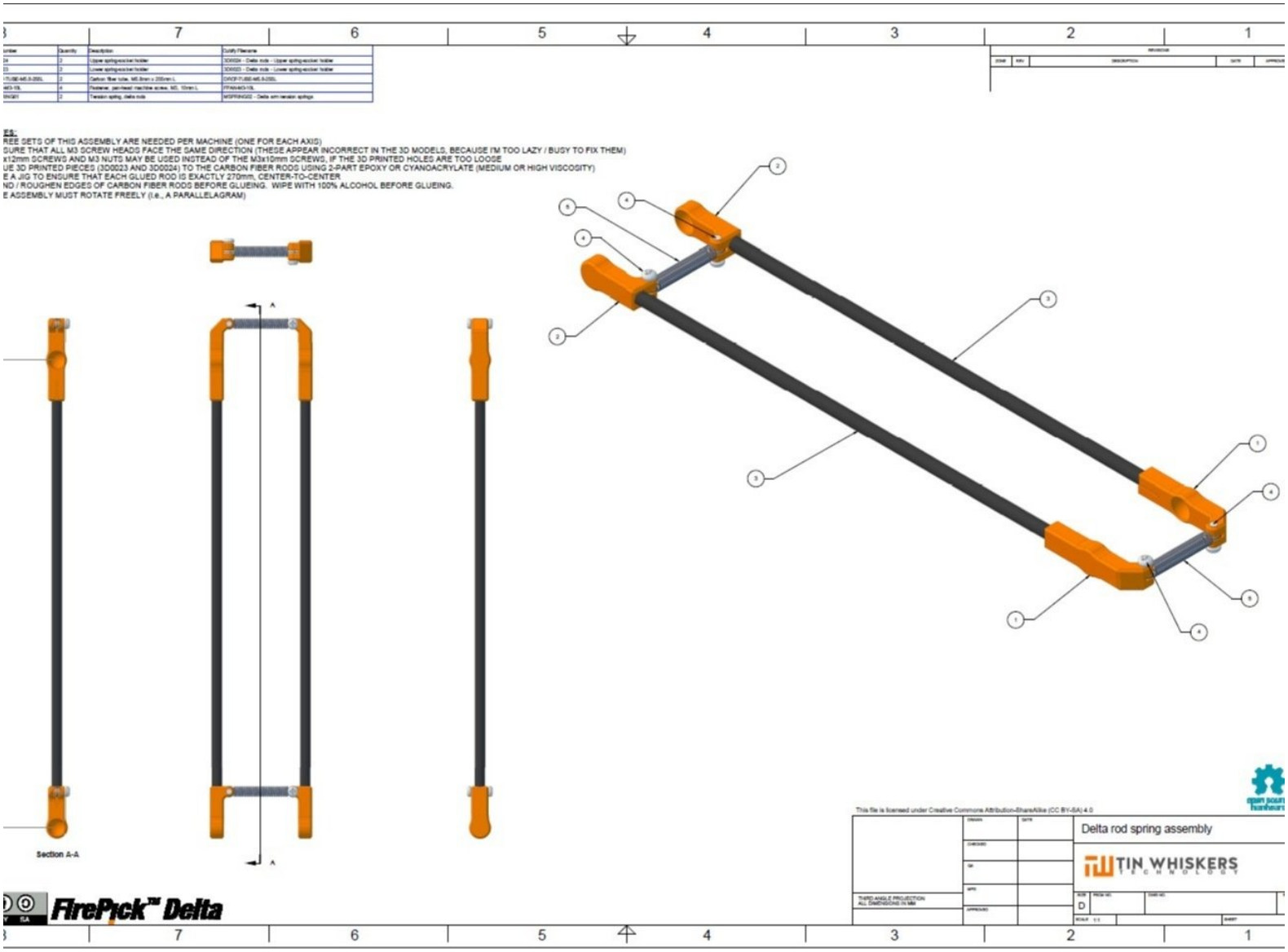
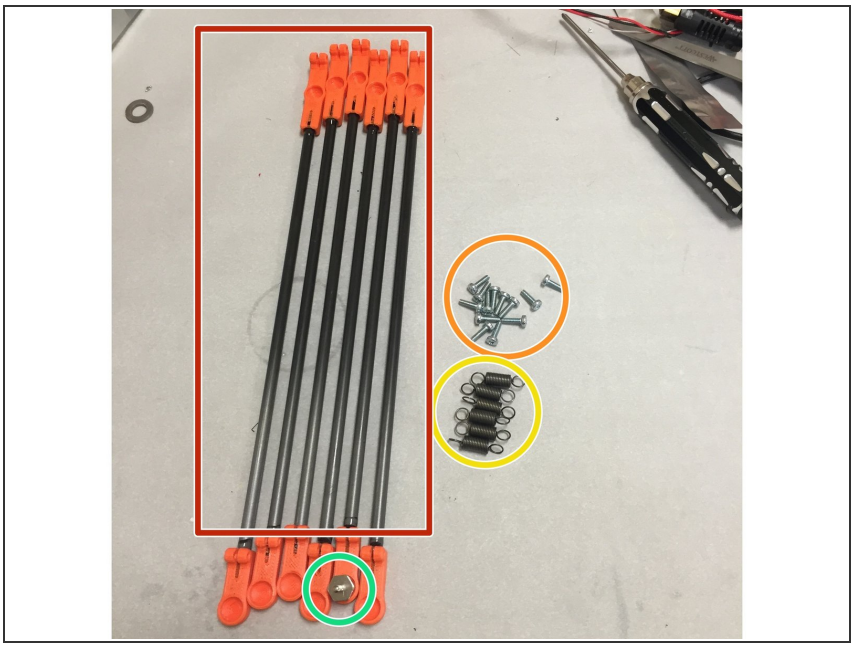
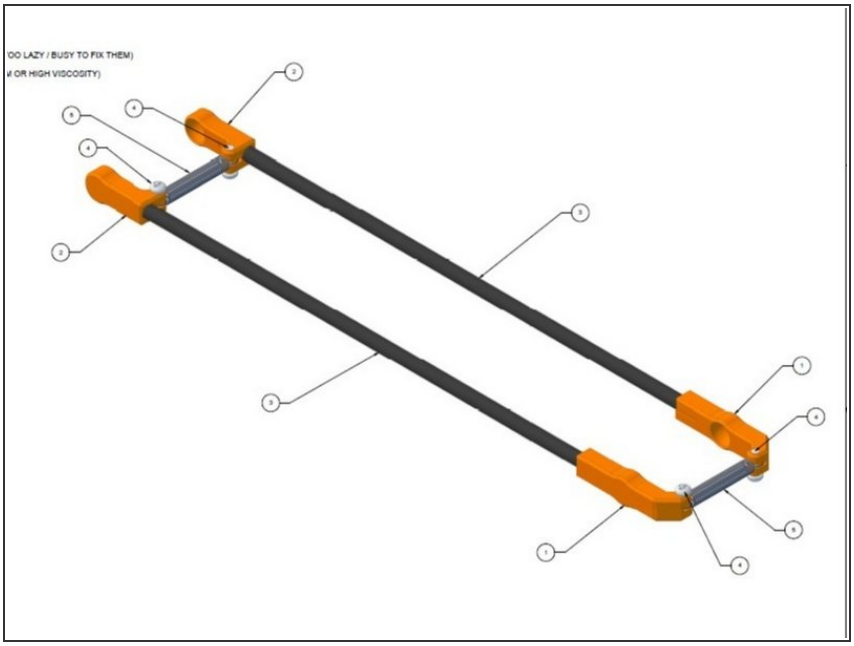


Step 1 — Gather Parts



- 6x AD0003b - Carbon Rod Assembly with Spring sockets
- 12x - FPAN-M3-10L pan-head M3 x 10mm screws
- 6x MSPRING02 - Delta arm tension springs
- (Optional) 1x ball-stud from the ball-stud bag, for spot check

Step 2 — Exploded View Reference



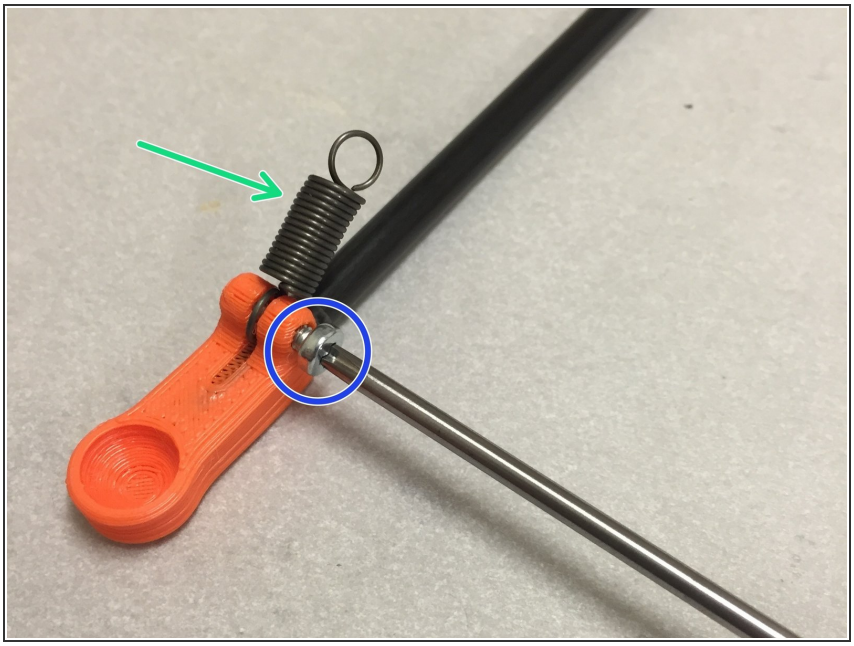
- PDF Link

Step 3 — Inspect Rods

We pre-assembled the delta rods that came in your beta kit. This leaves all the hard stuff (cutting carbon fiber rods, epoxying, 3D printing) to us. We use a custom jig to ensure that the cups are exactly 270.0 millimeters, center to center.

- Inspect the ball-cup areas of the orange PLA pieces, on the rods. Ensure that they're round, there are no 3D printing defects. You may use one of the ball-studs as a fit check.
- Ensure that the epoxy has held and that the carbon rods and 3D printed pieces are secured and don't move.

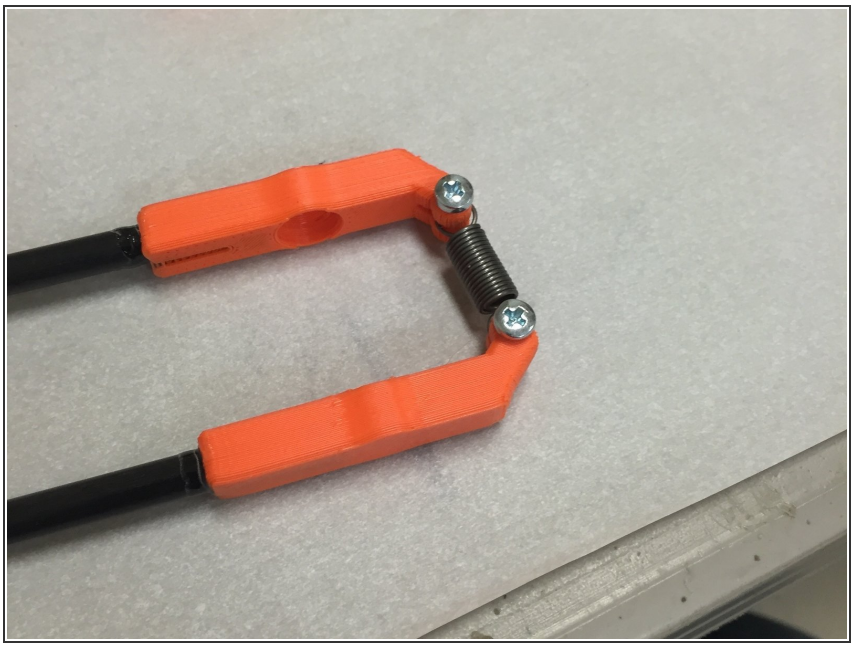
Step 4 — Attach the Springs



- Grab a tension spring.
- Using M3 x 10mm pan-head screws, attach the tension springs as shown. Do this on both sides for three of the rods.

Don't worry if the screws don't have much tension (i.e. they don't feel like they are "screwing in" much). The spring tension on the screw threads will be more than enough to keep the screws from walking out.

Step 5 — Attach Spring to Other Rod



- Now take the remaining rods and attach them to the other side of the spring.
- Do this for the remaining rods.

Step 6 — Done!

- Your arms are complete.