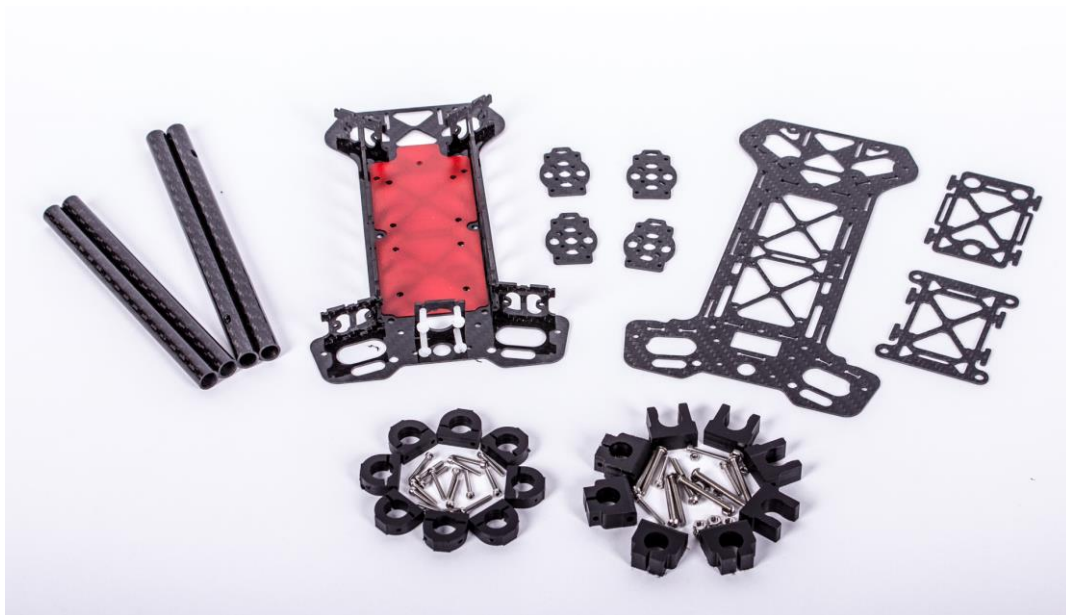


Assembly manual Black Snapper XS



In the box:



We recommend that you test-fit all components first, the long booms should be mounted to the rear end and the short booms to the front end. Doing so, you can measure the approximately required cable length und cut them.

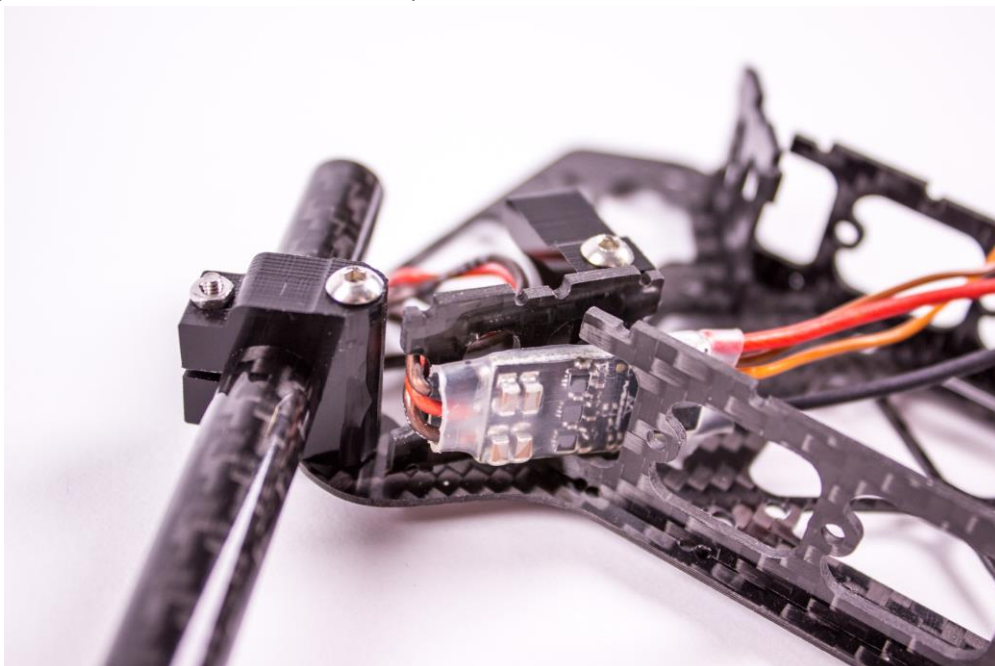
1. Mounting and wiring of the motors

Threading the motor cables through the booms can be done easier when the motors aren't mounted yet. Just gently push the cables through the boom until the wire ends reach the side hole. There, you lift the cables with a pair of tweezers from the inside of the boom to the outside while still pushing the cables forward. You can protect the cables with additional heat shrink tube at the two spots where they might be damaged by sharp edges.



2. Soldering and mounting of the ESCs

Make sure that you use an appropriate cable length between boom and ESC. The cables should be bent in a half circle which has to be large enough that the cables won't be pulled in any direction when you use the folding mechanism. This means that the cables have to be long enough so they don't get worn in the long term, but they shouldn't be too long at the same time because then they could get squeezed. Please work very precisely here. The ESCs can simply be attached with double-sided tape.



Assembly manual for Black Snapper XS



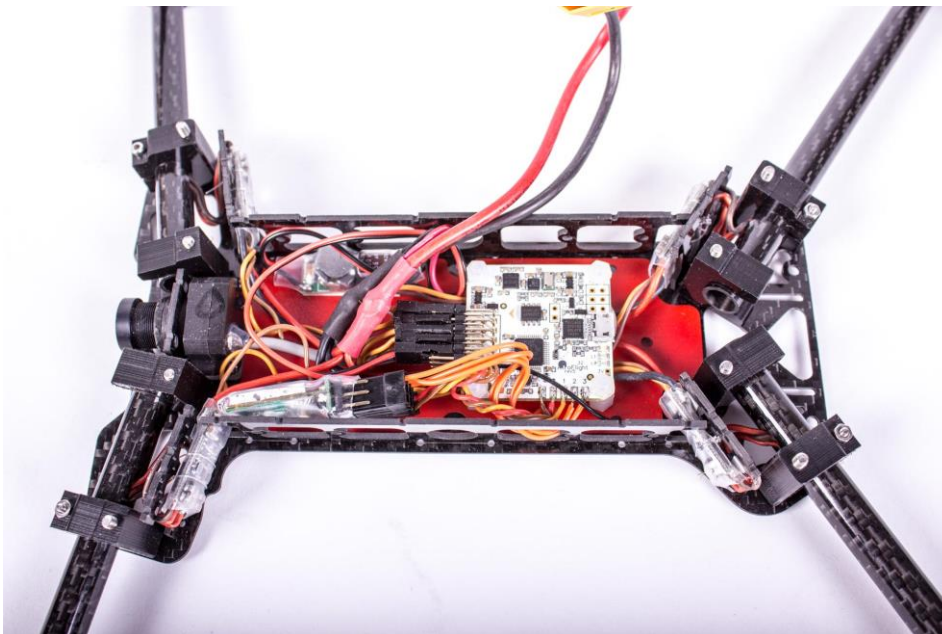
3. Soldering of the cable harness

You can either use a circuit board or solder a cable harness for power distribution. In this case, we chose the soldering option to save space and weight. Please also solder e.g. a BEC for the Naze 32 and the power supply for the video transmitter. You may also take into consideration that you attach reserved connections for possible additional modules.



4. Mounting the flight control, FPV camera and receiver

Pay attention to the correct orientation of the flight control (the arrow on the Naze 32 board must point to the nose of the aircraft)

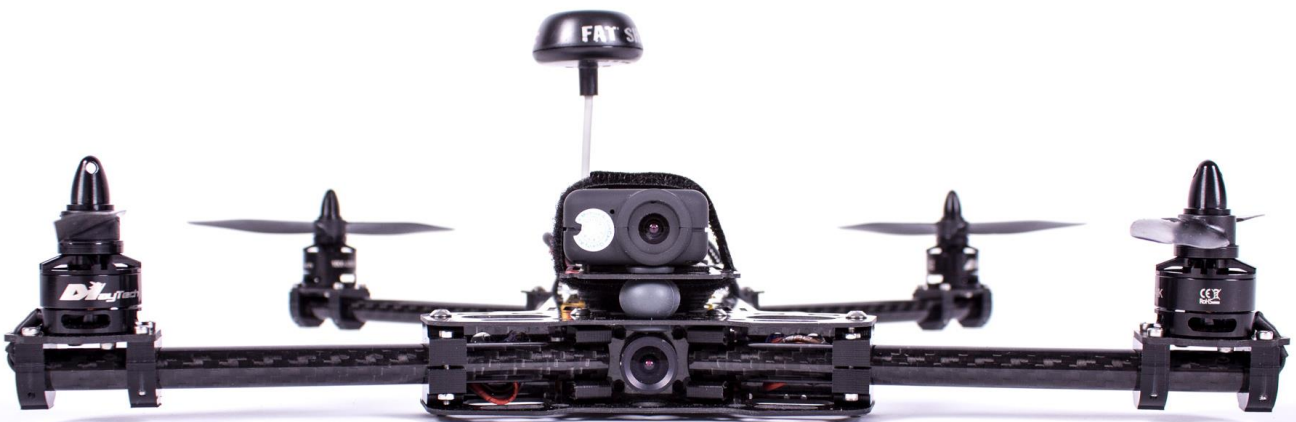


5. Closing the frame and adjusting the motors

Please make sure that all side wall parts fit neatly into the prepared slots before you tighten the screws and that the long booms are mounted to the rear frame end. When you successfully closed the main frame, please adjust the alignment of the motors and tighten the screws which secure the booms from accidental twisting. The motor axes must be aligned perfectly vertical!



6. Mounting the propellers, video transmitter, battery and Full HD camera (optional) and adjusting the CoG.



Assembly manual for Black Snapper XS



The position of the CoG can be found out like described:

You connect the center points of the motor axes of both front and rear motors with a virtual line, so that you get 2 parallels. The half distance between these two parallels marks the center of thrust. You can adjust the CoG to match this point by moving the battery, video transmitter and Full HD camera. Thereby you can equally distribute the weight, so that all motors need the same power to keep the aircraft hovering.

From the mechanical perspective, your Black Snapper XS is now ready to fly!

We wish you a lot of fun during the build and of course later in the air with your Black Snapper XS!