Revo3 Build Instructions.

Please read completely before starting your build.

This document covers the Revo 3. Please check you have the following in your kit:

Revo3 Parts List

1 x 3mm carbon upper arm
1 x 3mm carbon lower arm
1 x 2mm carbon top plate
1 x 2mm carbon bottom plate
1 x 1mm carbon FC cover

4 x aluminium motor mounts
8 x stainless steel M2 x 8mm cap head screws
8 x stainless steel M2 plain nuts

4 x aluminium tapered pillars
4 x brass standoffs
2 x stainless steel M3 nyloc nuts
10 x stainless steel M3 x 5mm button head screws

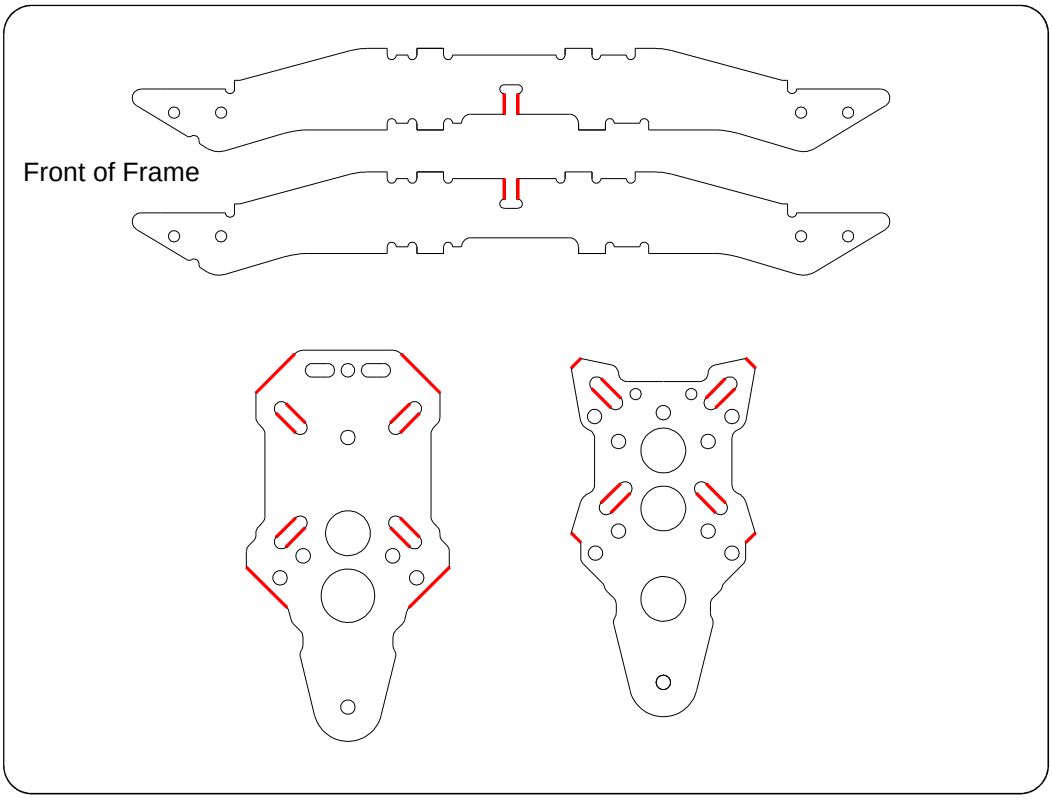
1 x sticker
1 x battery pad (not shown)
1 x battery strap (not shown)

Fossils Stuff - The Old Stables - West End Farm - Upper Froyle - Alton - Hampshire - GU34 4JR
Telephone: 01420 520 830 www.fossilsstuff.com

Sections highlighted in blue are certain procedures that require some type of threadlock adhesive. Although not essential it is strongly advised.
Threadlock is available from the Fossils Stuff shop in the accessories section.

The Revo 3 is a thoroughbred racing frame with every part requiring a perfect fit with each other to achieve the optimum performance from the frame.

A few frames will not need any attention at all, others will need a small amount of filing to bring each part into tolerance for a perfect fit. The lines shown in red are where filing may be required.



Unfortunately, carbon sheet cannot be manufactured to the tolerances required to allow a perfect fit with all the components on every frame.

The notches in one end of the arms denote the front of the frame.
Once all the components all fit together tightly without any hardware, take apart ready for the next stage.

Top plate.

Fit front standoffs with M3 nyloc nuts. Fit rear standoffs with two of the tapered pillars. Fit front tapered pillar and rear tapered pillar with M3 x 5mm button head screws.

Now is a good time to bolt your camera mounting bracket to the bottom plate.

Frame Assembly

Slot both arms together. Push top plate onto arms. Push bottom plate onto arms. Use 4 M3 x 5mm button head screws to draw the top and bottom plates together by screwing into the tapered pillars.

Motor Mounts

The variation in material thickness may make the aluminium mounts quite a tight fit on some arms. This can be easily overcome by gently prising open the legs with a screwdriver and also filing the arms slightly.

Attach each motor mount with the M2 x 8mm screws and nuts.

Component List:

The following components were used in the original Revo 3 prototype. There are however many more suitable components that will do just as well.

Brother Hobby T1 Tornado 1407 - 3600kv Motors
Little Bee 20 amp ESC's
Furious FPV Pico BLX Flight Controller
TBS Unify Pro VTX
Frsky XM Receiver
RunCam Swift Mini FPV Camera

To complete the Revo it is really a standard build from here. ESC's if used can be taped to the arms as per a standard carbon frame. The rear compartment between the top and bottom plate provides ample room for a receiver and a VTX.

Most builds have had the antenna going straight out the back attached directly to the VTX and then cable tied to the Rear Post.

In the unlikely event of an arm breaking, it is a relatively simple job to change an arm. Remove the motor mounts and ESC's on the broken arm. Remove the 4 M3 x 8mm button head screws from the bottom plate allowing the arms to be removed and replaced.

The battery strap passes through the slot between the lower plate and the arms.

The supplied battery pad is self adhesive and is stuck on the underside of the lower plate.

Optional extras will become available in the very near future such as FC stack covers of different heights, anodised aluminium components in a range of colours and an LED strip mounting system.

Any feed back would be welcome either good or bad.

Enjoy your Revo whichever one you chose and good luck if entering any of the race events this year.

Cheers,

Fossil.

Fossils Stuff - The Old Stables - West End Farm - Upper Froyle - Alton - Hampshire - GU34 4JR

Telephone: 01420 520 830 www.fossilsstuff.com