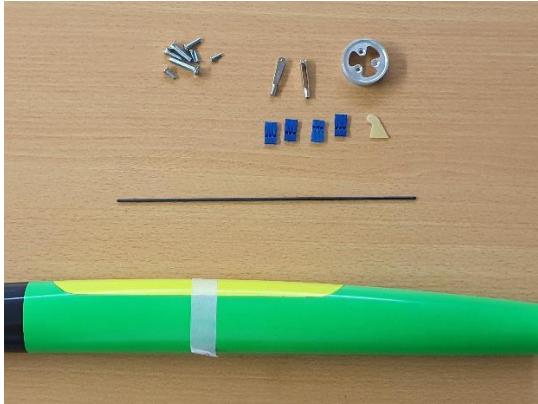


Sense new fuselage build log

I received a green nosed fuselage and parts count was low, good!



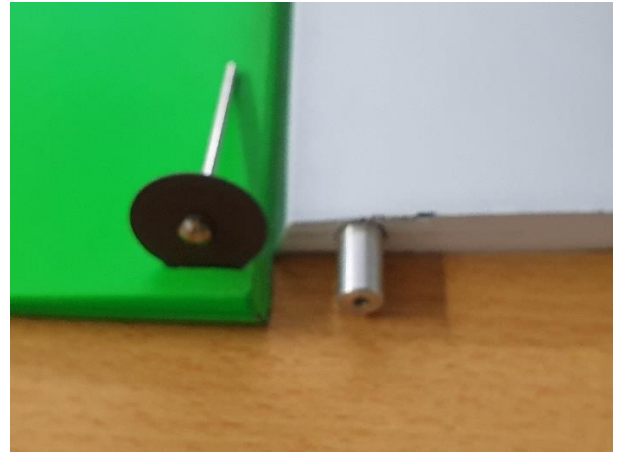
The new fuselage has a longer nose section, wider and taller battery session and its sides are flatter than before. In my case the nose is made of Kevlar which helps with 2.4 antennas and invites the model to fly GPS competitions.



I started the assembly by dismantling the old fuselage, which was pretty straight forward. Than the aluminium firewall was glued. Rough fibre inside with sandpaper, clean apply with epoxy and push.



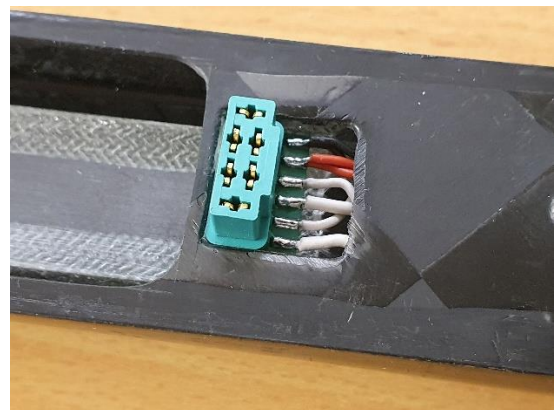
I moved to the rudder. Yes a new rudder is required as the attachment was changed from friction to milled aluminium joiner. The task here is just to attach the horn by cutting the skin, I avoided cutting the leading edge.



Horn is than epoxied in place, simple!



Mount the wing and identify which cable corresponds to each servo, easy task as the harness is factory assembled.

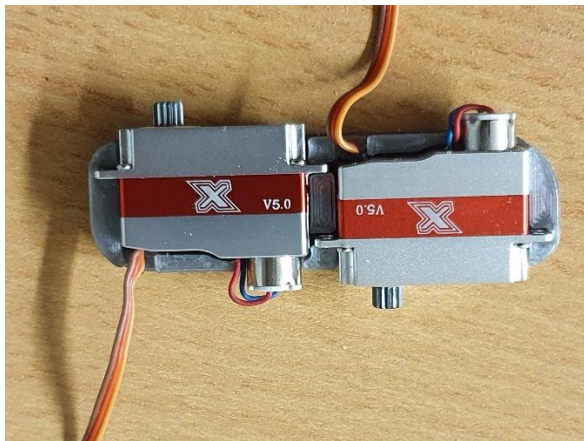


Now the tail servos and pushrods and here was hard.... My fuselage allows the rear servo mounting over the enlarged ballast tube and I wanted to take full advantage of it. But the original servos were KST 08 with normal mounting tabs and the space between ballast tube and push rod is really, really tight. It took

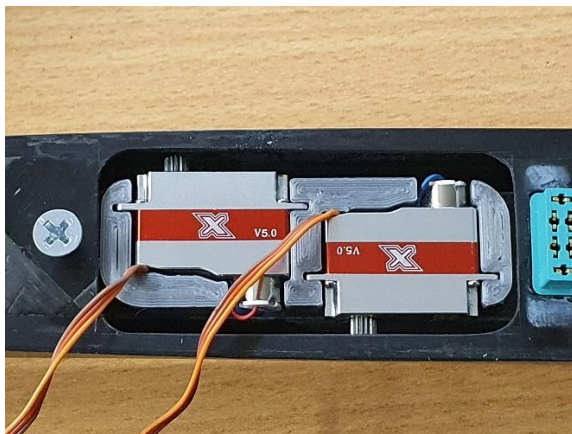
me 5 versions to get the exact distance between the servos and correct height to permit their removal, if required in the future. Anyway, the part is now designed and the file is available here:

<https://www.thingiverse.com/thing:4586448>

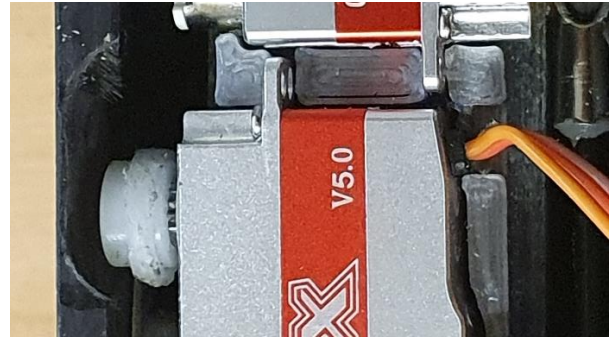
alternatively use servos with “wing” tabs so adjustment is easier. Prepare the servo arms (I used the third hole) and attach the metal link to them



Mount and centre rudder and elevator. Position the servos and mount in the fuselage and mark the ballast tube, the fuselage top and push rods.



Grind fuselage opening there the servo arms are.

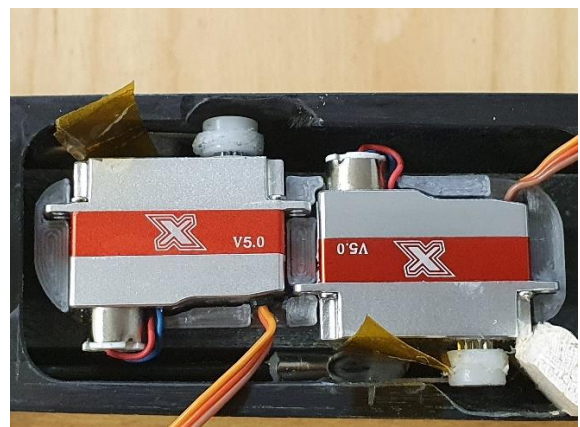


Grind the excessive protruding pin of the metal links (yes saving 0.6mm make a lot of difference here). Having the servos position defined cut the push rods 10mm from the servo centre. I used masking tape to help deflecting the rods while cutting.

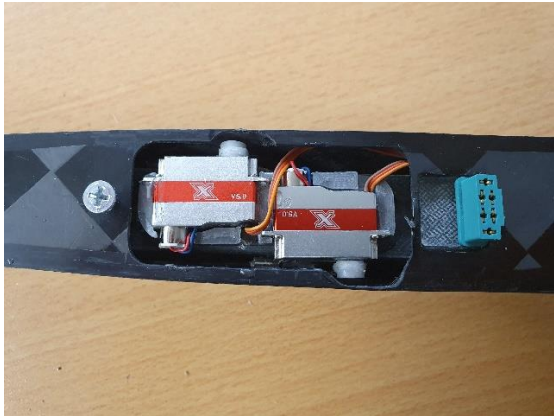


Slide the metal links and servo arms into the pushrods and epoxy the servo mount. Note, sequence is relevant!

Insert the servo arms and screws to the servos (check they are centered) and insert them in the mount. Make sure surfaces are centred and apply epoxy to the metal links, I used WB Weld. Make sure no glue runs to the adjacent areas, I used Kapton tape to avoid disasters....



Apply one drop of regular epoxy in each side of the servos, it is easy to remove with heat in the future if needed.



Install your motor and ESC and hookup the RX (tail servo lead may need to be extended). As you can see the hard to fit 4S battery now nearly disappears in the nose section. In my case the RX is visible because I have the logger attached to it but could also disappear below the ballast tube. Plenty of space now!

