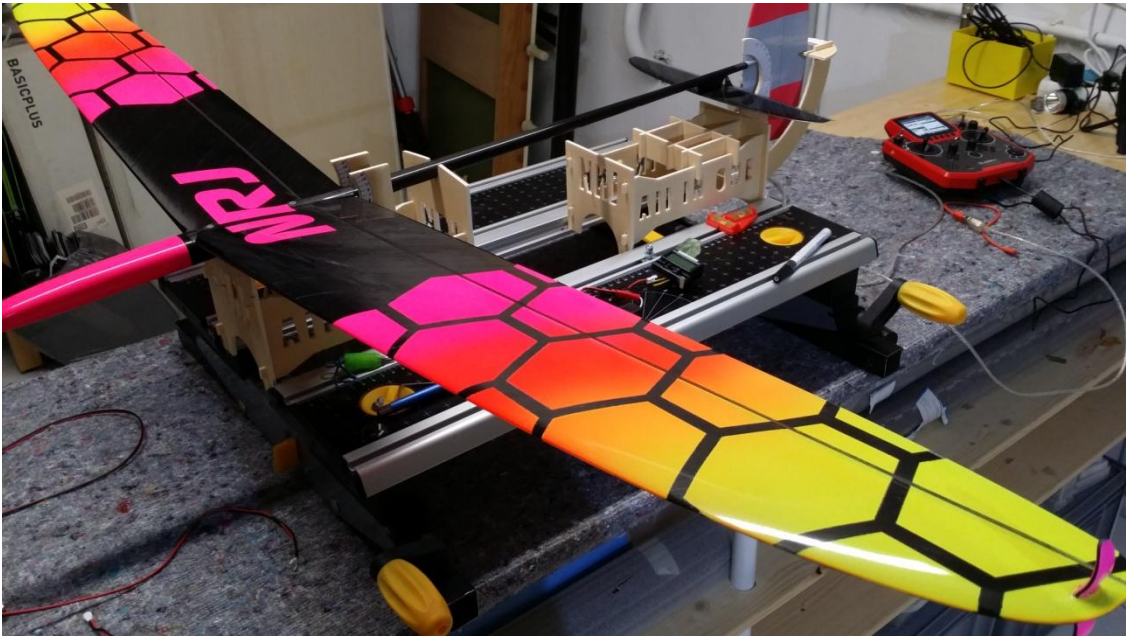


NRJ

Building Instructions



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NOTE!

This manual is an example how to build this glider.

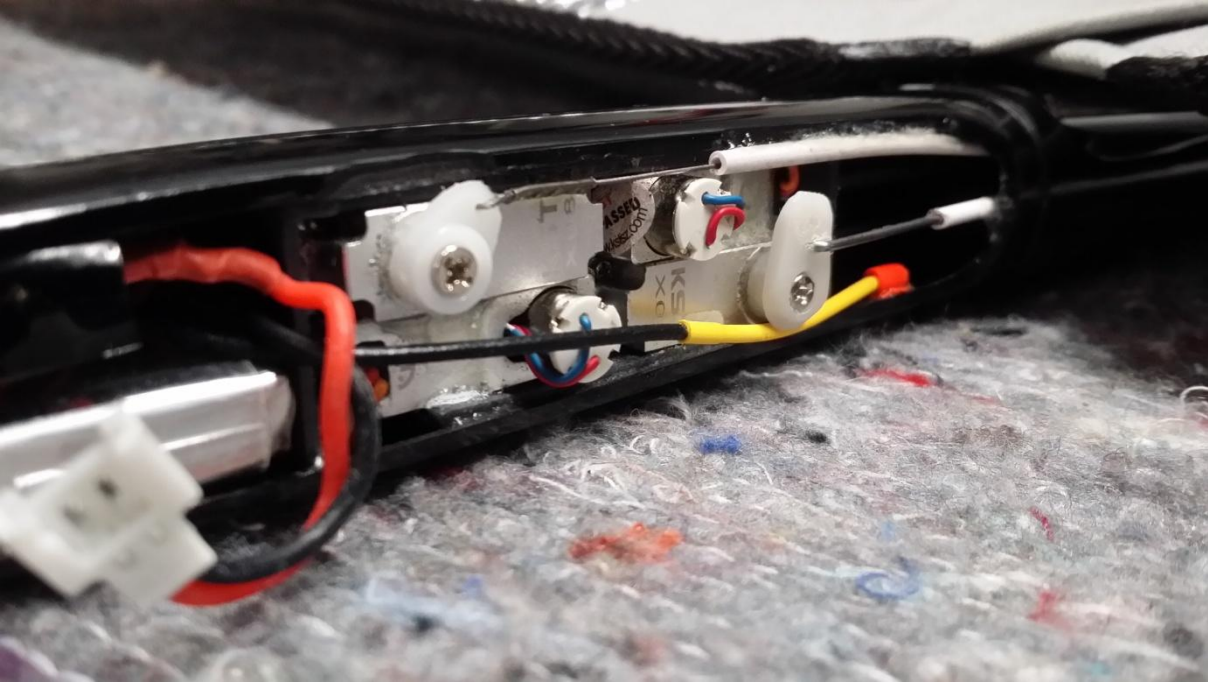
You do not need to build it according this decription.

You have to build and fly at your own risk.

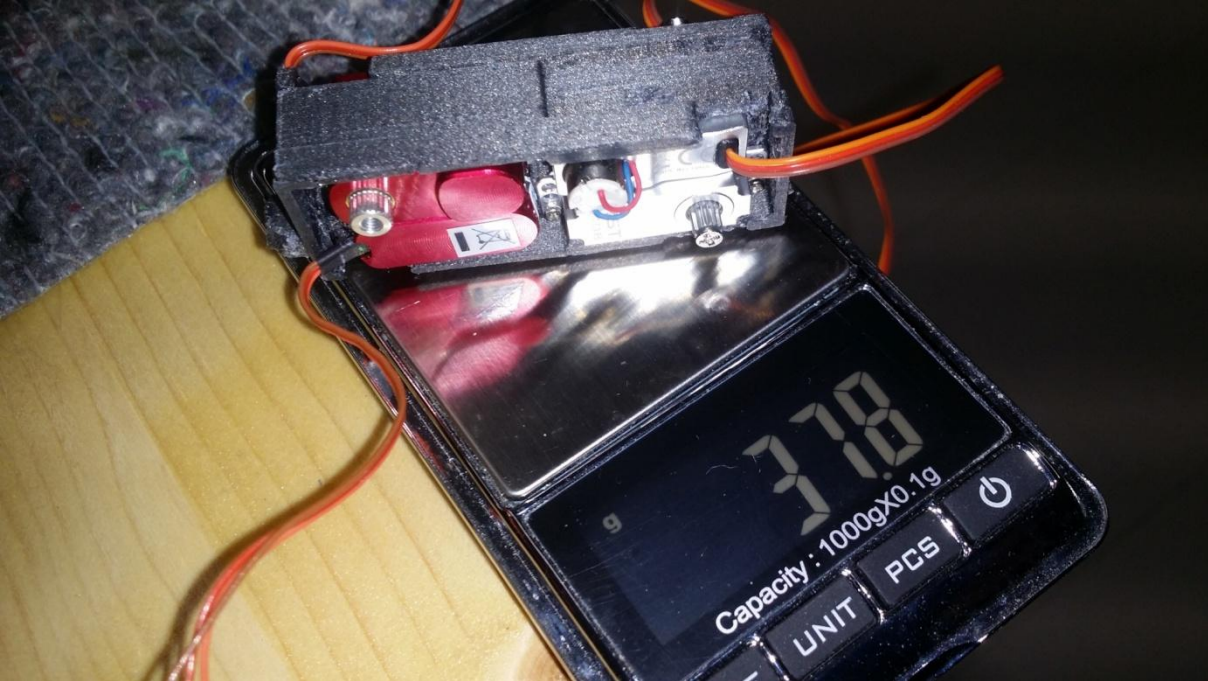
1. Servo Setup



4 x KST -> Standard Servo Frame approx 38gramm



2 x KST + 2 x MKS DS75K (37,8 gramm incl Rack) -> MKS Servo Frame



2 x Robbe FS31 + 2 x MKS DS75K (30 gramm incl Rack) -> Robbe MKS Servo Frame



2. Installation of C- peg

Download file from lining website.

The peg has to fit perfectly to hole of the wing. Only then you can use CA.

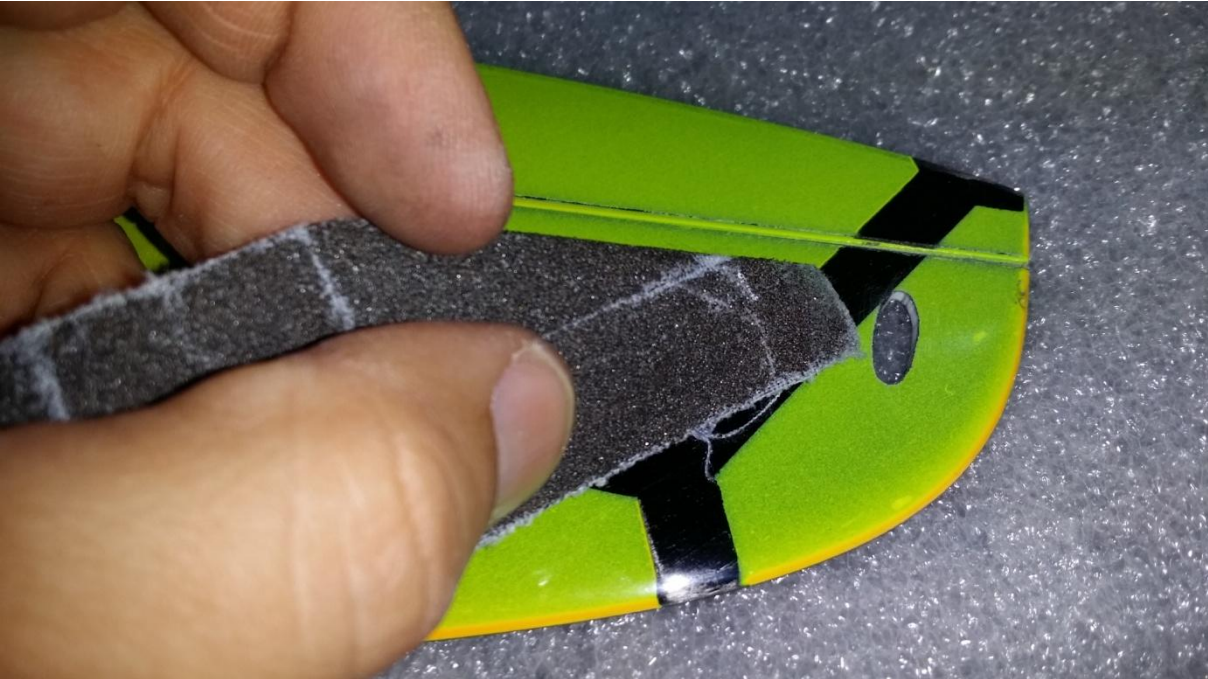








After that sand the glue surface.

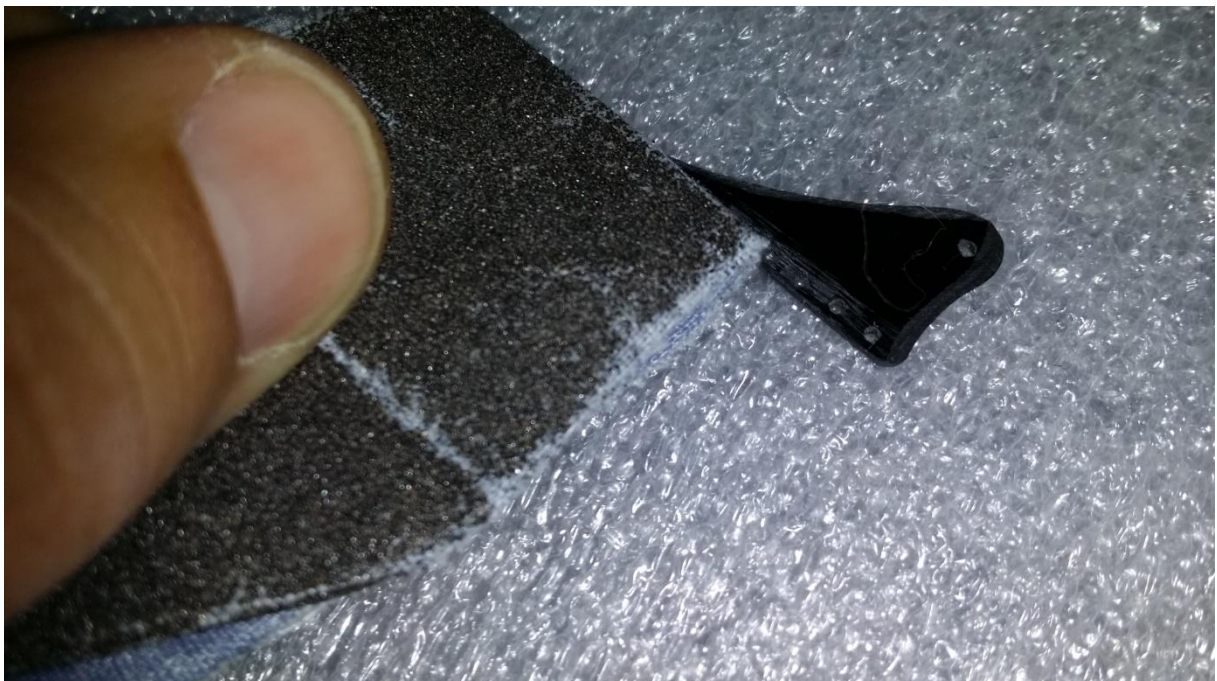


3. Horns for wing

Check that the 1.0mm pushrod fits perfect tot he hole in the horn.



Sand the gluing surface



Make a sharp shape to reduce aerodynamic drag

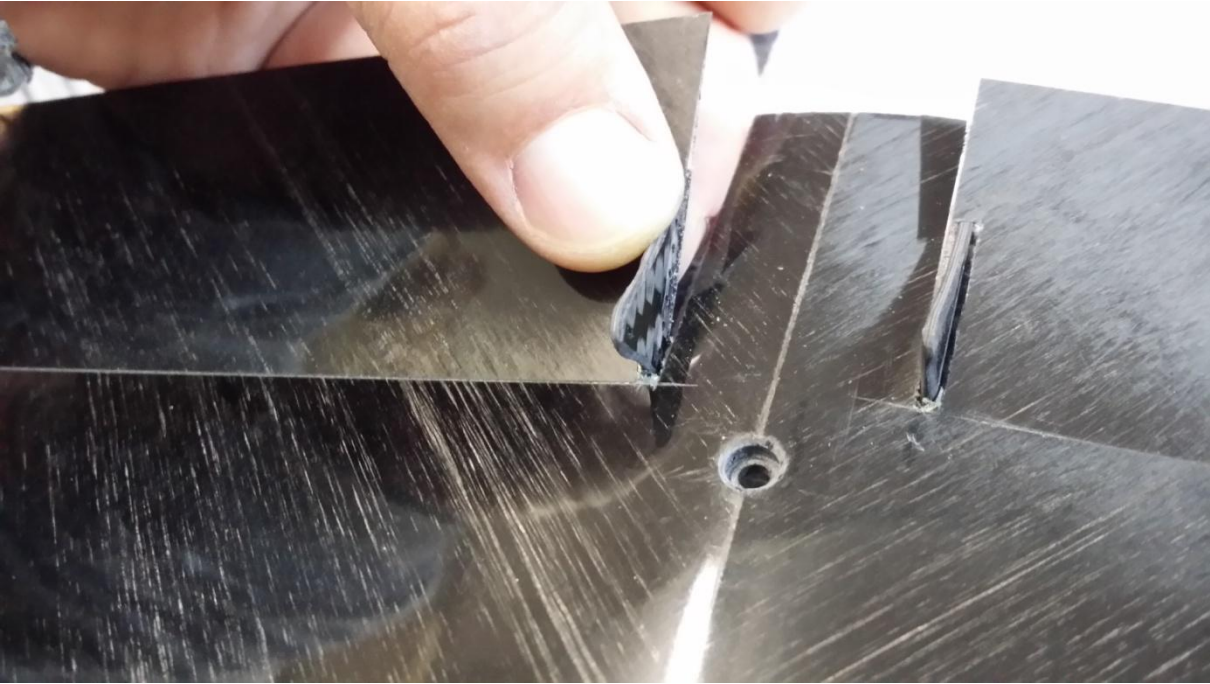


Check the distance between fuse and rudder



Check the 90 degrees of the slice

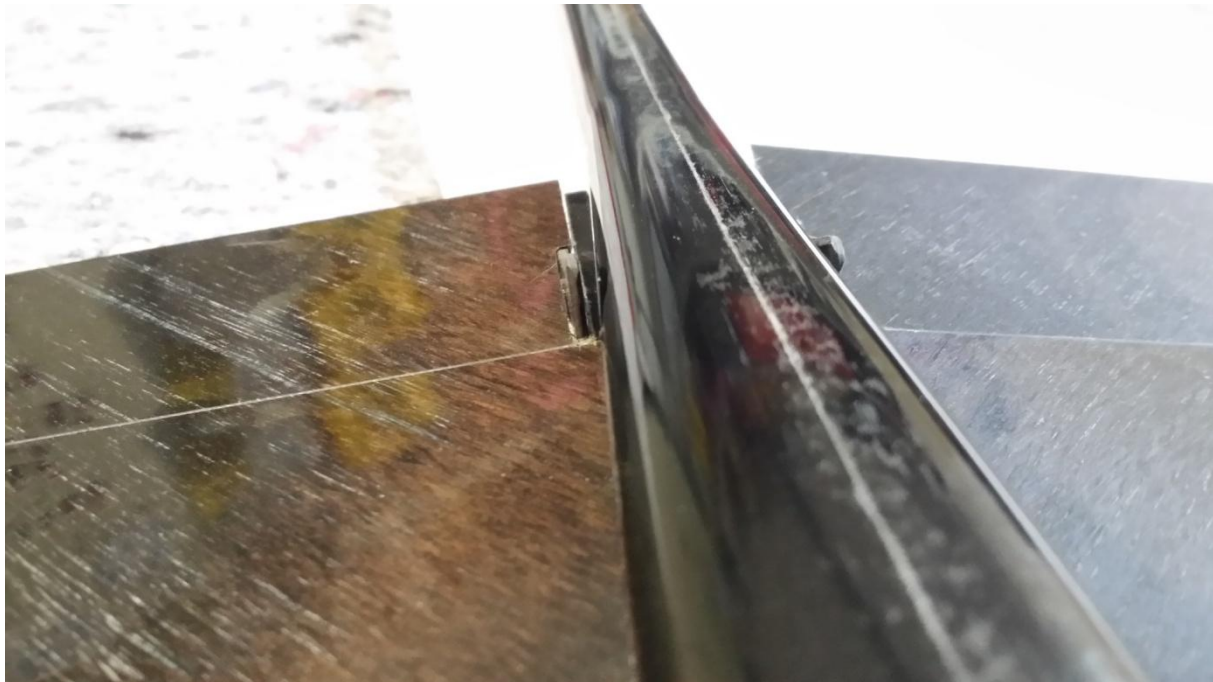
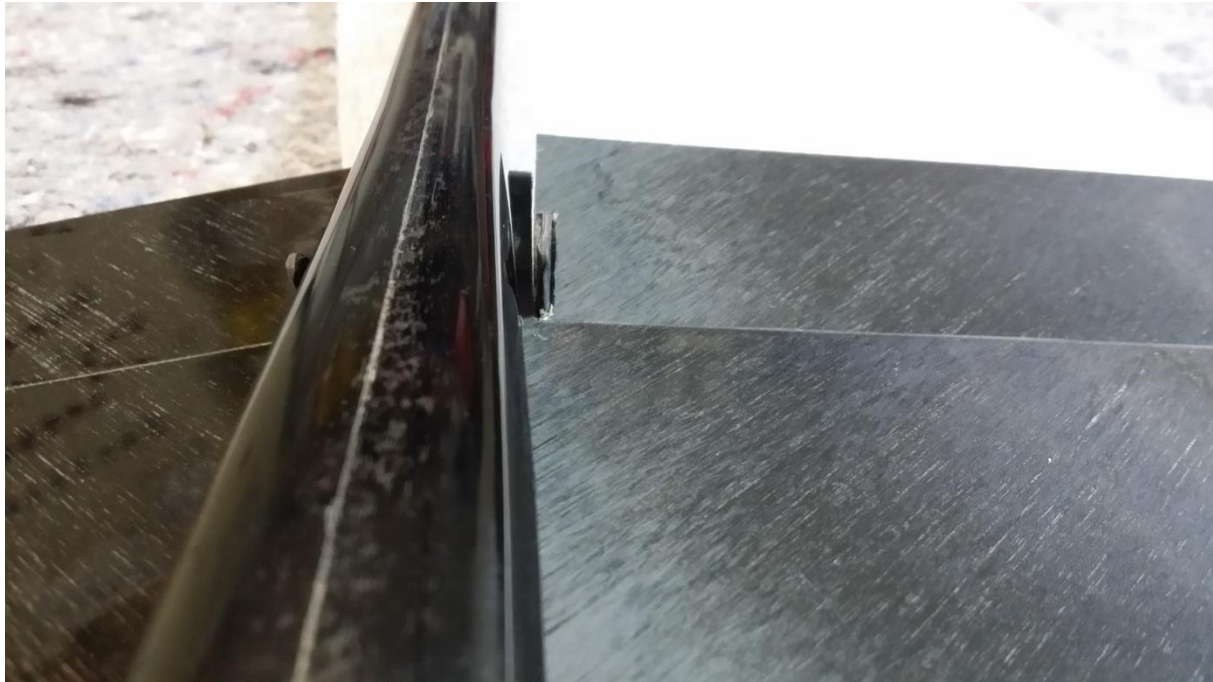




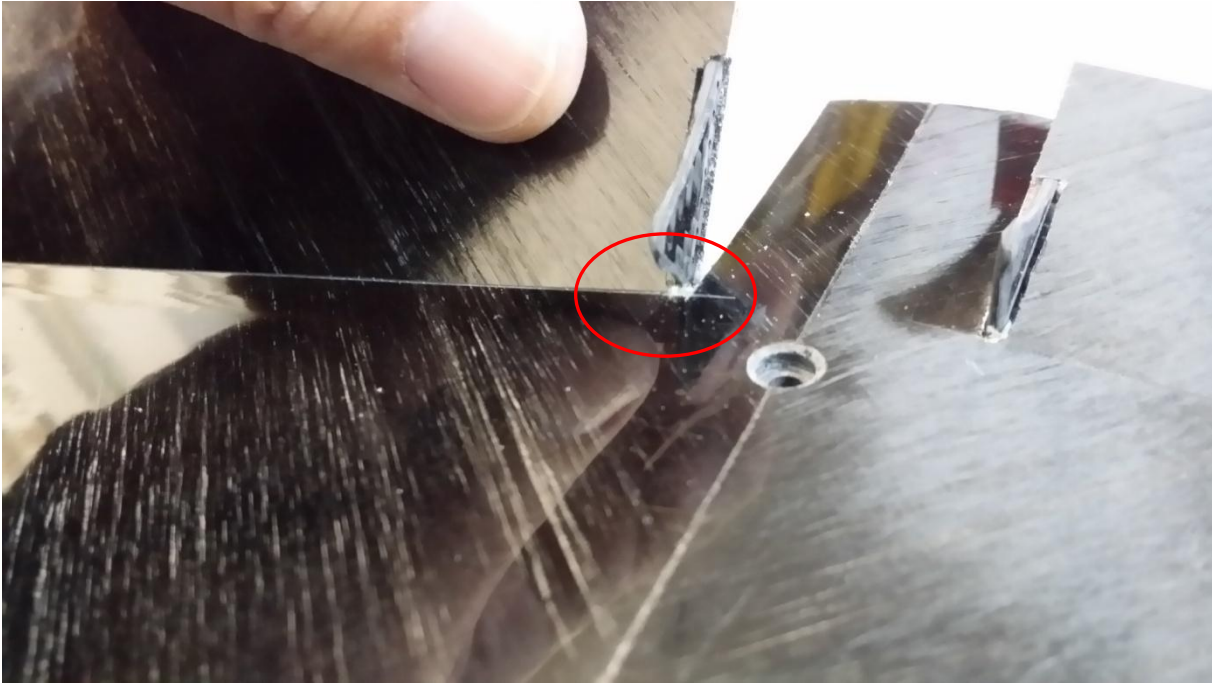
Check the alignment without CA



Check the sitance between horns and fuse



Horn has to adjust to forward position



Use 2mm distance holder to adjust the position





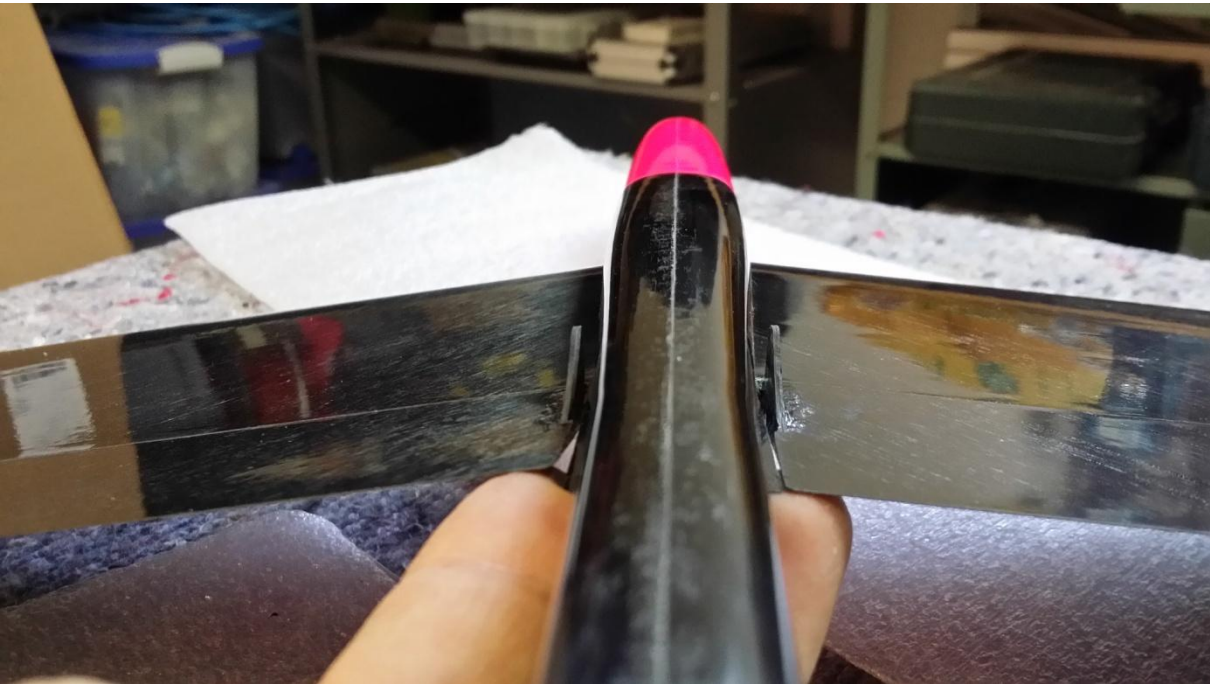
Glue the ajusteed horns with CA.





Send the horn and slice to have a soft movement of the rudder.



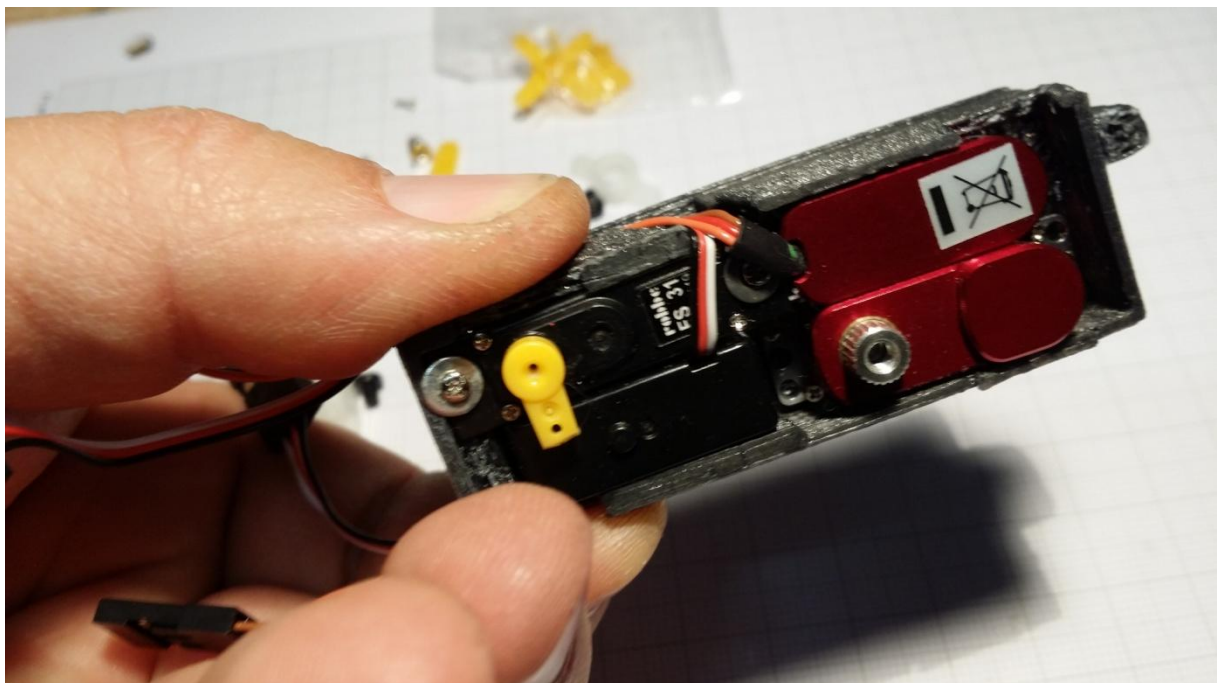
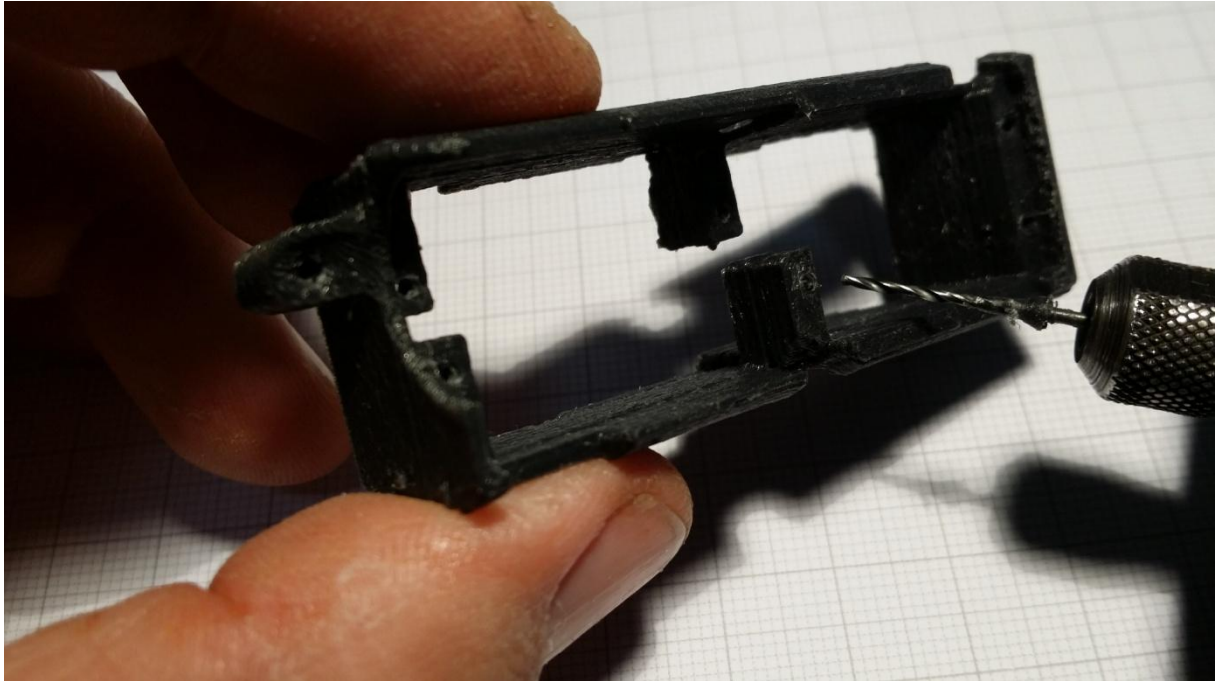


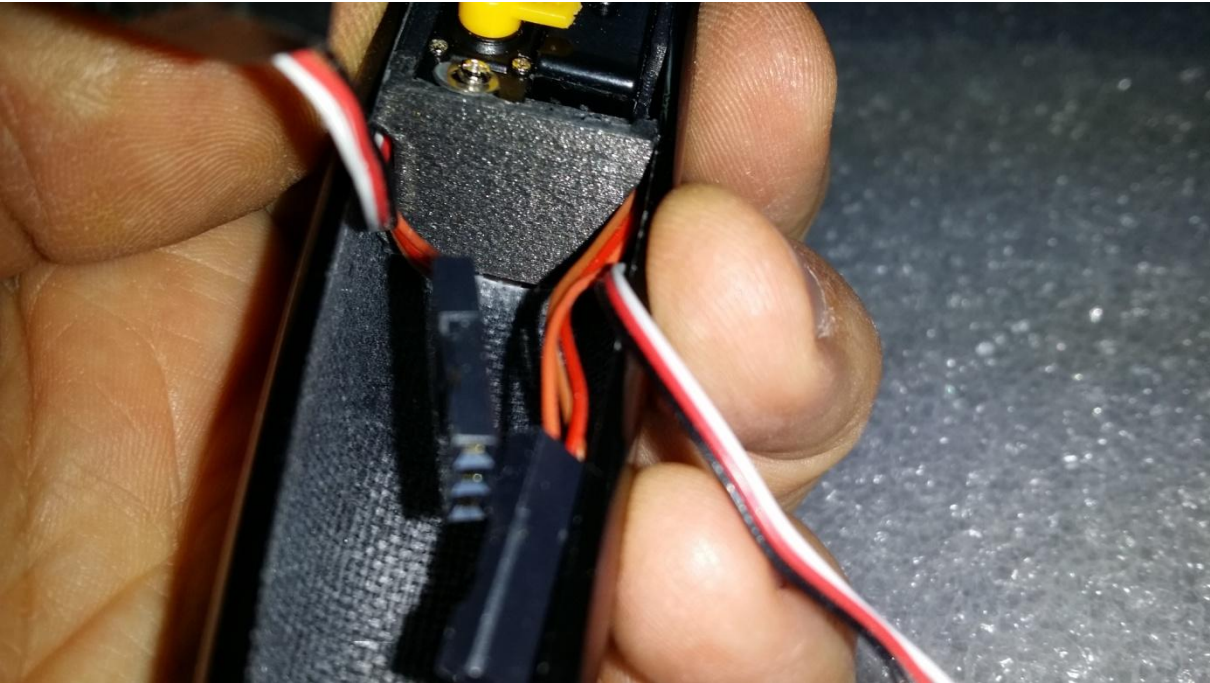
4. Servo rack

You need the reight servo rack for you configuration.

Here is an example for Robbe and MKS.

First drill the holes





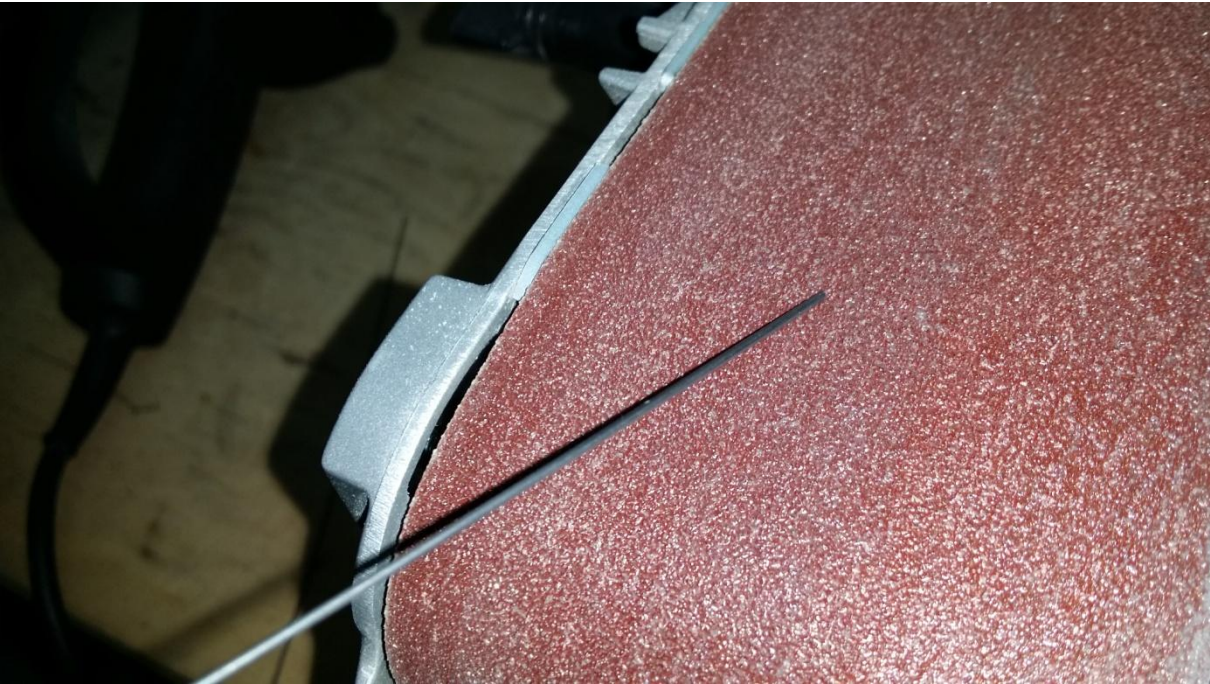
Fit in the rack and move it forward in the nose direction as much as possible. Finally glue the rack with CA.





5. Aileron push rods

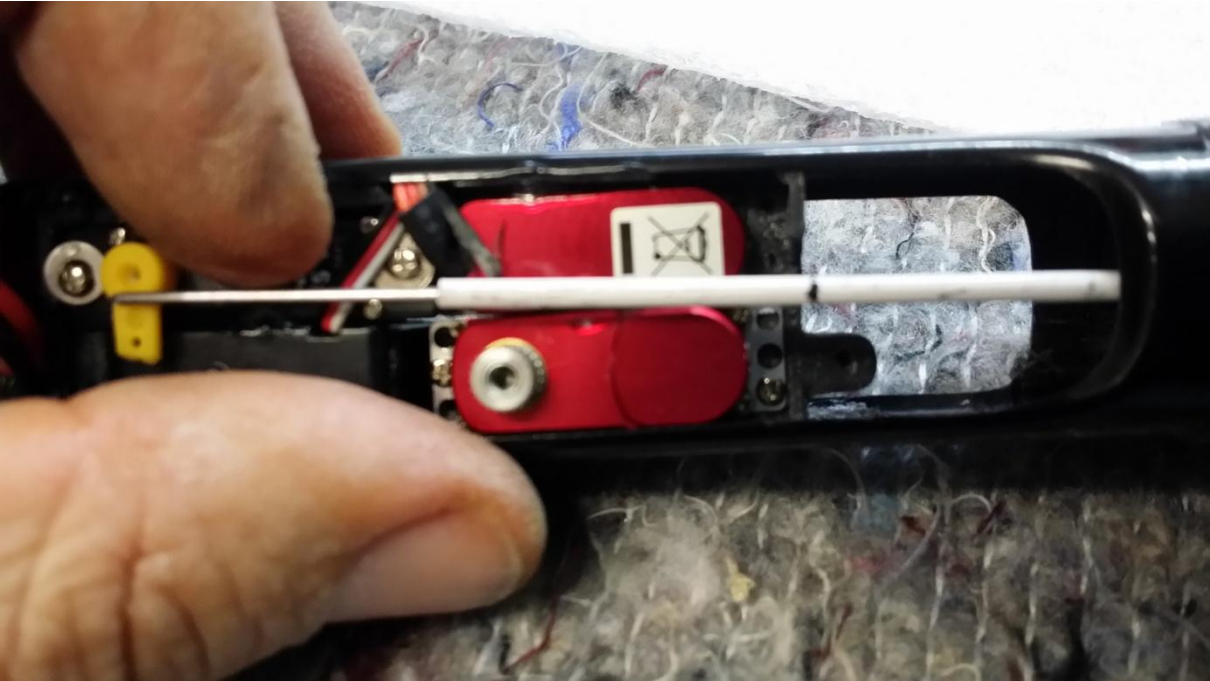
This is most important work. Work carefully.

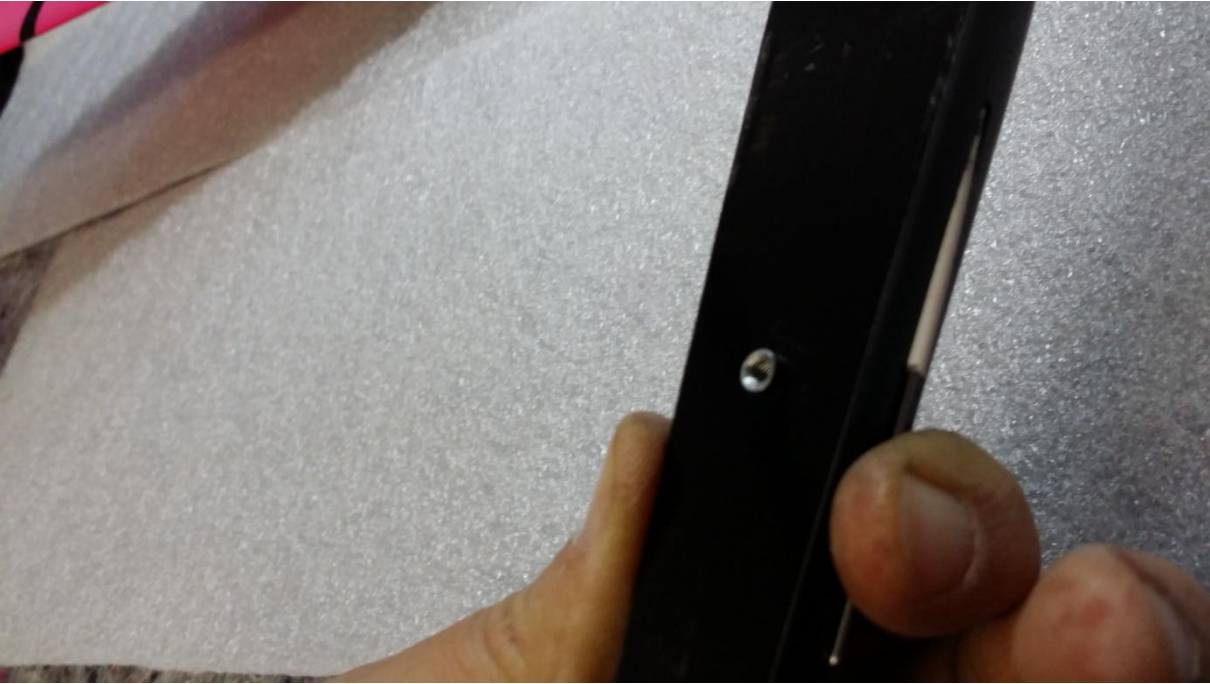




The pushrod has to move very very easy in the tube but it is necessary to have no gap to avoid flutter during launch.







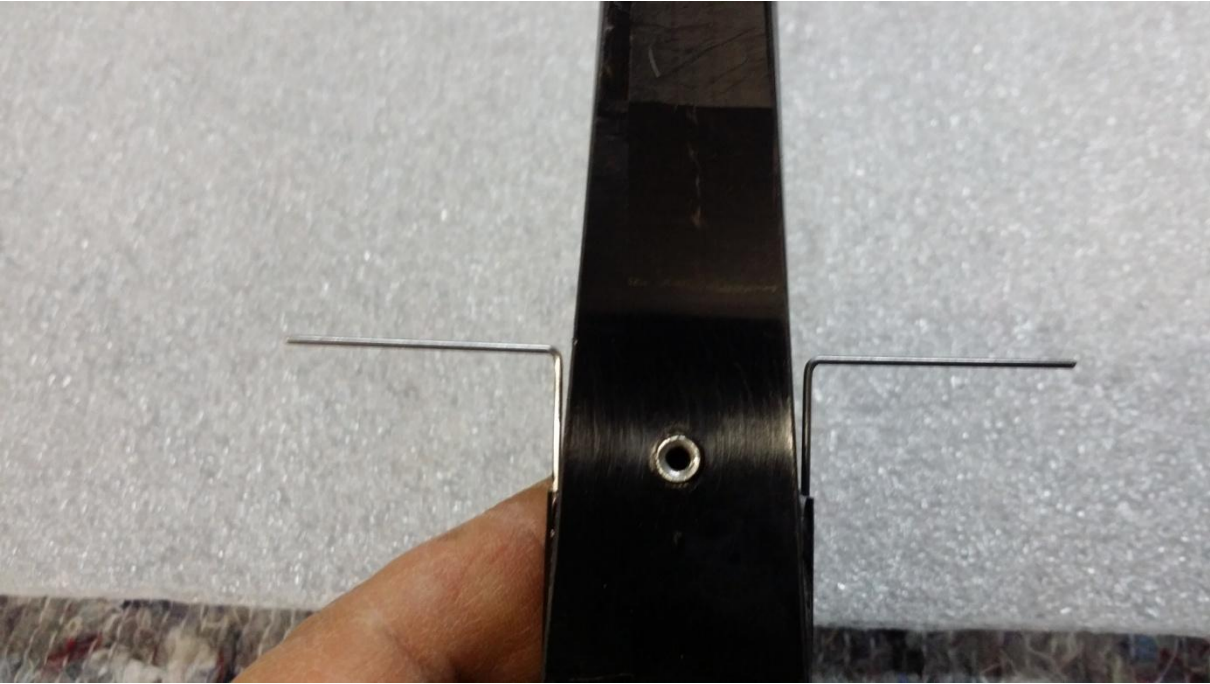


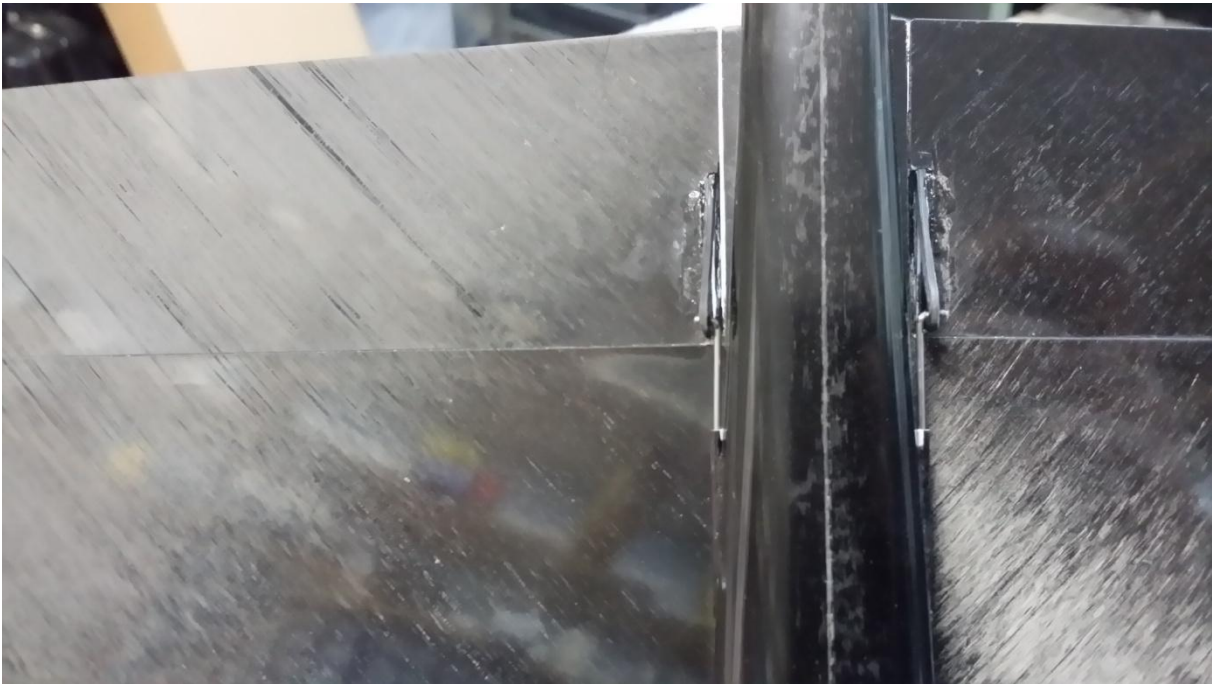
Always use the inner hole of the Servo horn to have the best force and less mechanic gab on the ailerons.















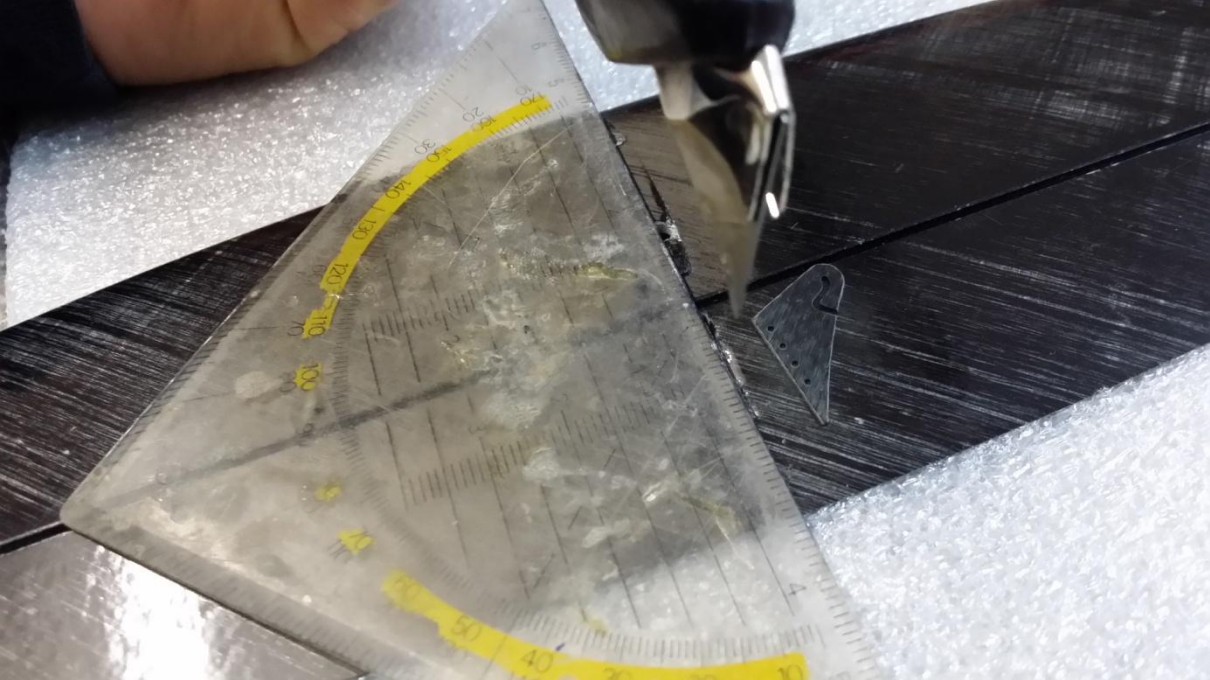
Note:

There has to be absolutely no mechanic gab for the ailerons.

Flying with gab can cause flutter and destroy the plane.

Everything has to be stiff.

6. Fin and stab



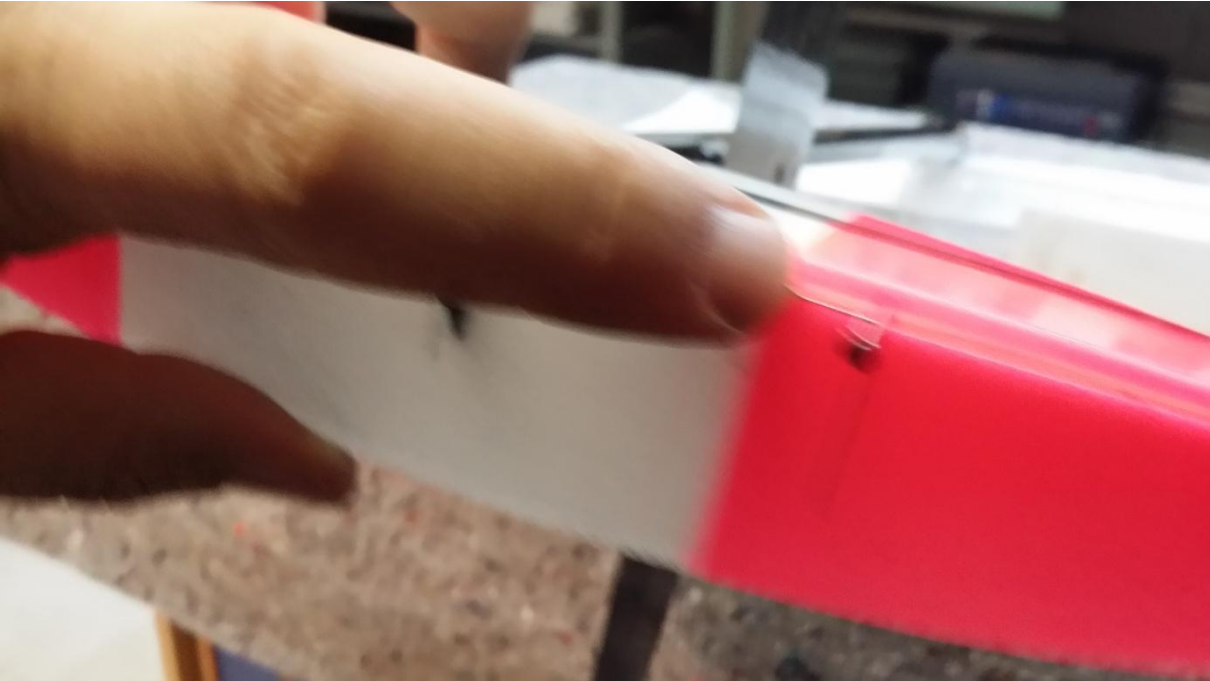




Soft deburring the hole (only by hand – use no machine)

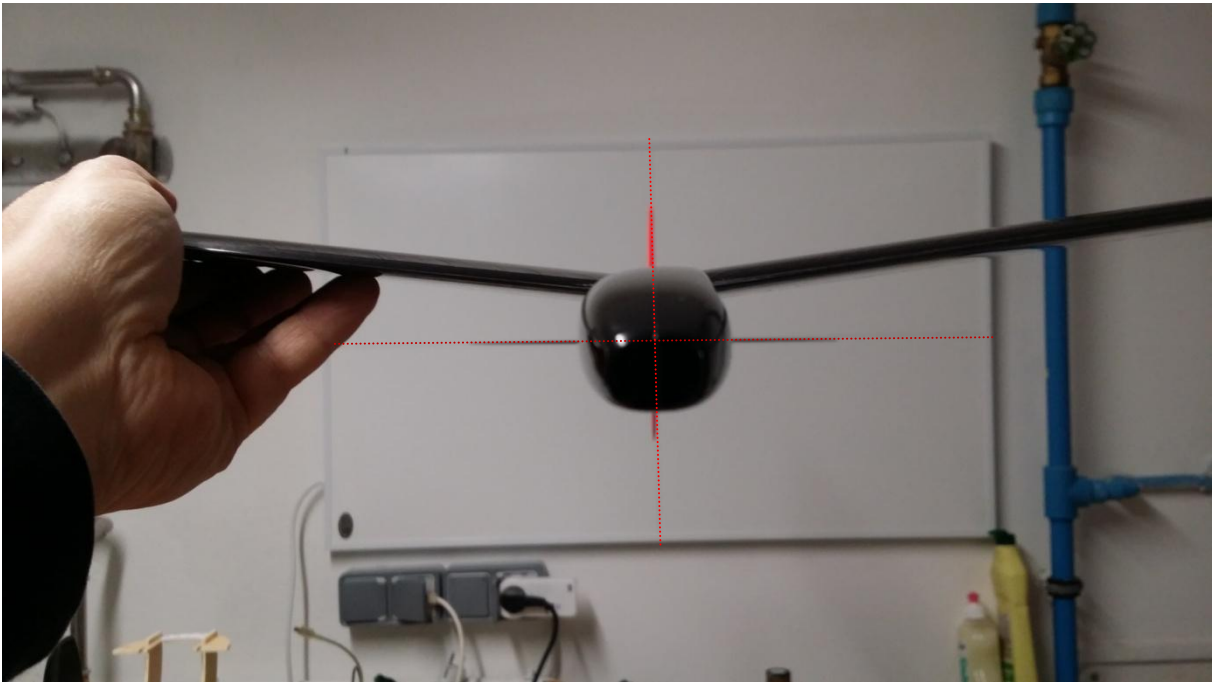
There has to be absolutely no mechanic gab for the rudder.

Flying with gab can cause flutter and destroy the plane.



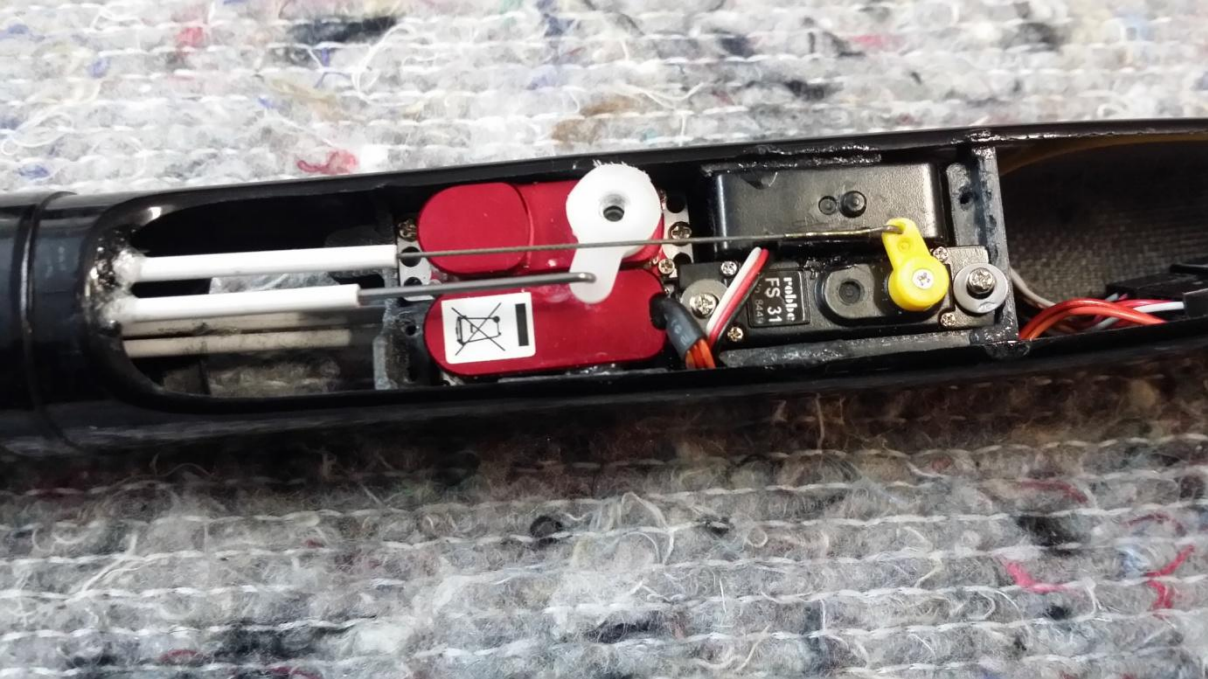


Check alignement



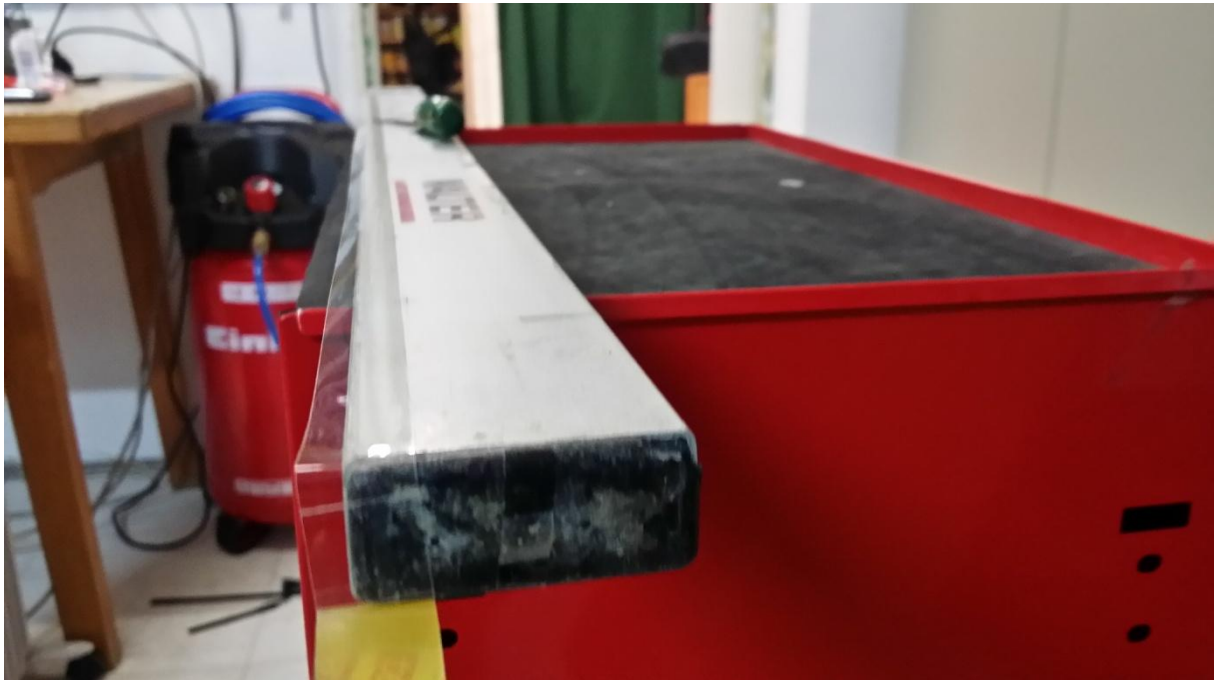
And glue the fin.

7. Finalize push rods



8. Finalize aerodynamic

Cut tape and glue one half on the wing.



Use cfk powder to make one half of the tape unstickable

