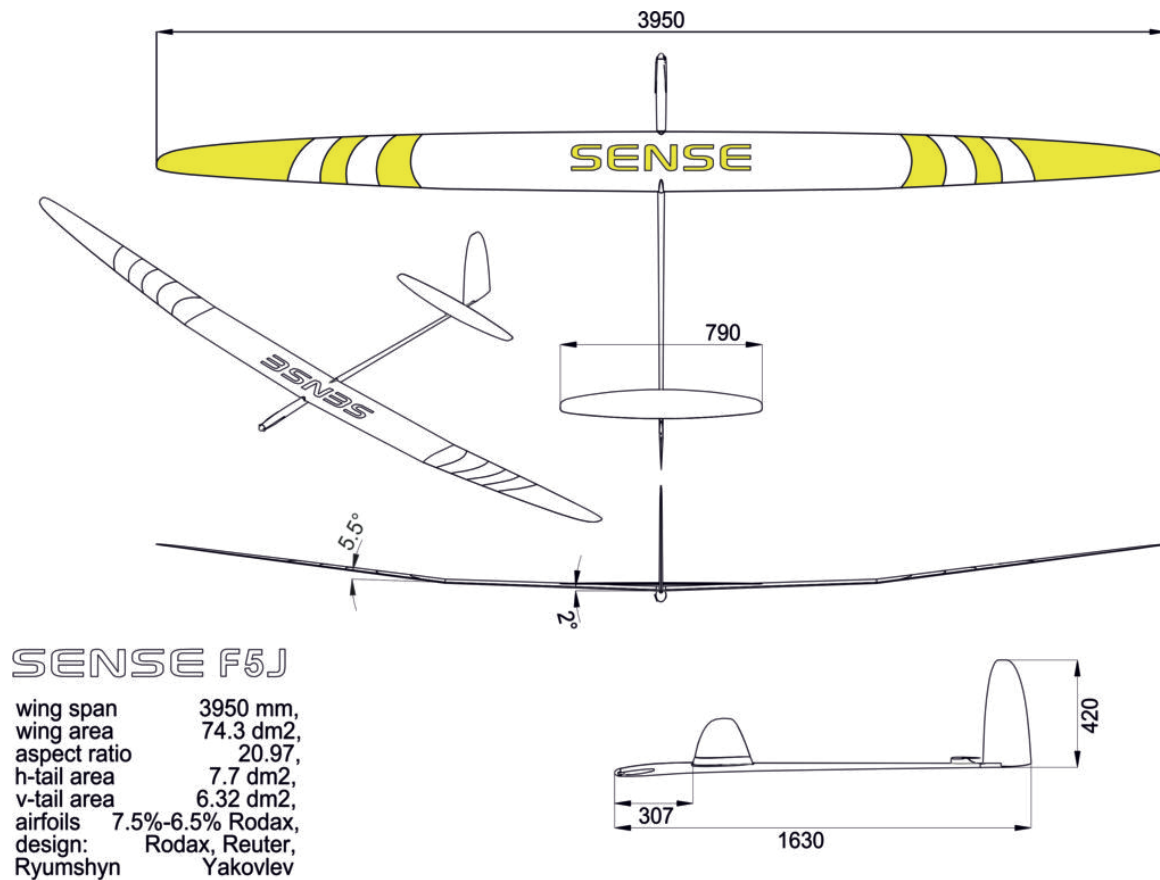


## SENSE F5J (by aerodeli.lt)



UAB "Aerodelis"

## Sense building manual (v1.0)

Congratulations and thank you for choosing the model! Please check that all items ordered are included and not damaged during transportation.

The Sense kit already is well prepared for your assembly and has following features pre-installed:

- Ballast chamber
- Tail group linkages
- Servo pockets with carbon reinforcement and roads channels
- Servo wiring with soldered MPX connectors ( fuselage, wing)

The Sense kit contains following parts:

- 1.5 mm wire for top drive linkage (flaps and ailerons)
- Servo tray for fuselage servos
- Servo horns (5ps )
- Screws for wing and tail group
- 4 small roads for central and outer wing panels alignment

- 4 servo pockets covers
- 2 fuselage servo clevis couplers
- 2 paars of wing joiners 5.5 and 7 degrees

#### Optional Parts:

- Ballast Set (normal or heavy)
- Premium wing covers
- 3D printed aileron top drive servo frames
- Flaps servo frames (servorahmen.de)
- CNC Aluminium motor mount (Powerline, reisenauer gbox, Mega)
- 30 mm VM Pro Spinner
- Propellers: 11x6.5, 12x7.5, 13x7, 13x8, 13.5x8, 13x9

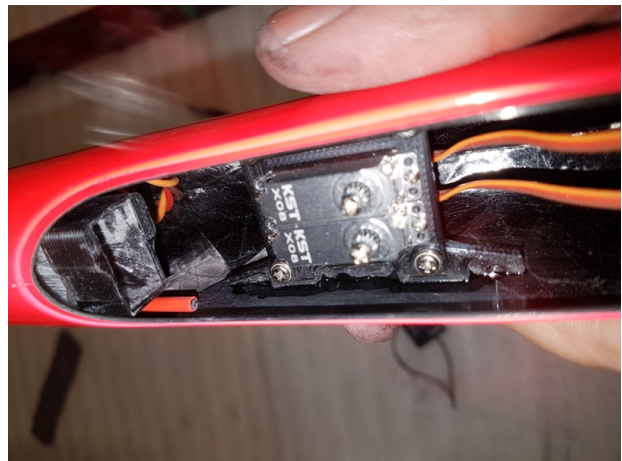
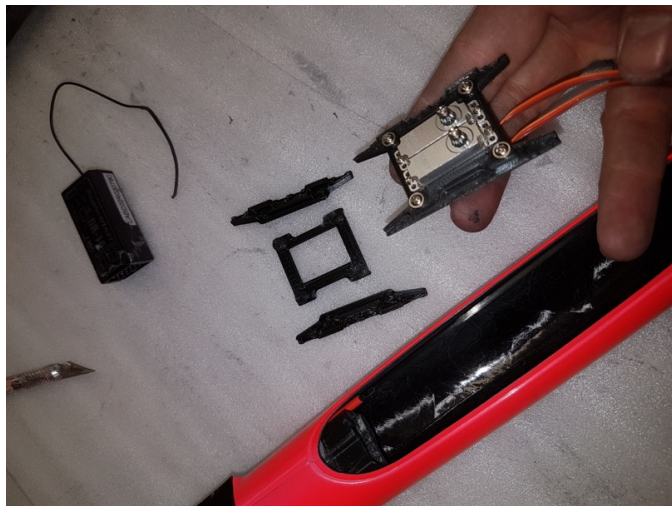
## Assembling

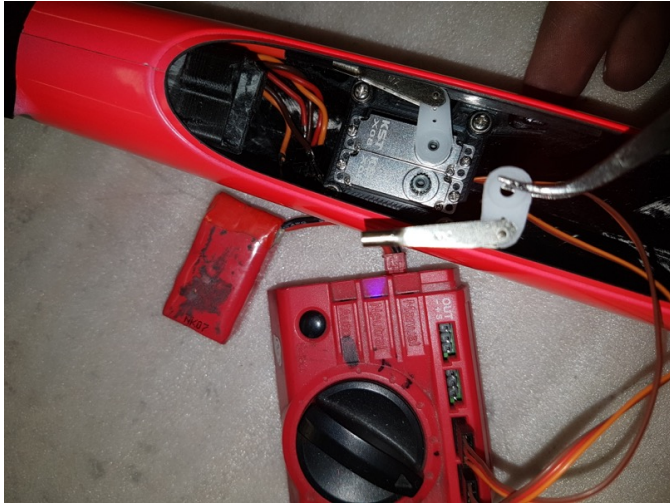
### Fuselage

You need to prepare servo tray to fit your fuselage servos for elevator and rudder. The tray is designed for two KST xt08 servos, but you can fit bigger ones like MKS6100. Install the tray as close as possible to ballast chamber (10 mm from chamber is good) to have more room in the fuselage.

Glue the tray with long time epoxy, do not glue middle part, it holds with 4 screws for swapping servos or placing receiver.

Glue the 2mm clevis couplers to the pushrods (install elevator and rudder for correct length adjustment).





Glue Motor mount with epoxy. Make sure you have motor's wire on side of fuselage.



Glue all connectors after it connected to receiver and everything works as designed  
Wing connector must be fixed after the fuselage connector is glued.

Ballast assembling.

Glue two halves on ballast ends .





Rudder connector is already made on the fabric.  
Cut a slot for the rudder horn.



Glue it with epoxy.  
Make sure it fits under fuselage covering

### **Wing assembling** (Flaps section).

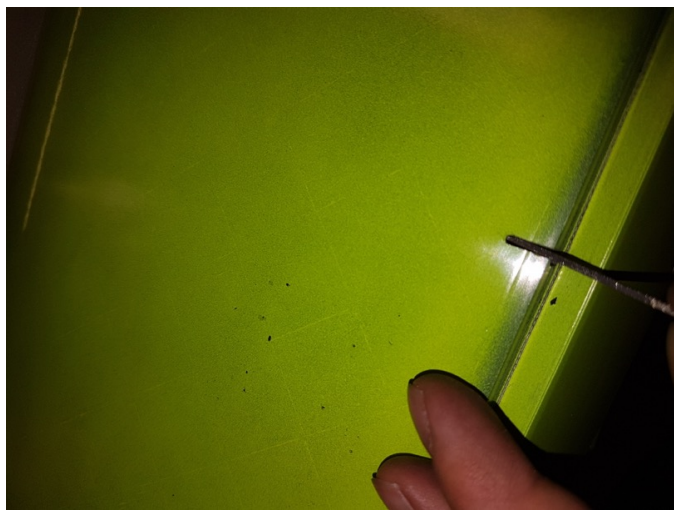
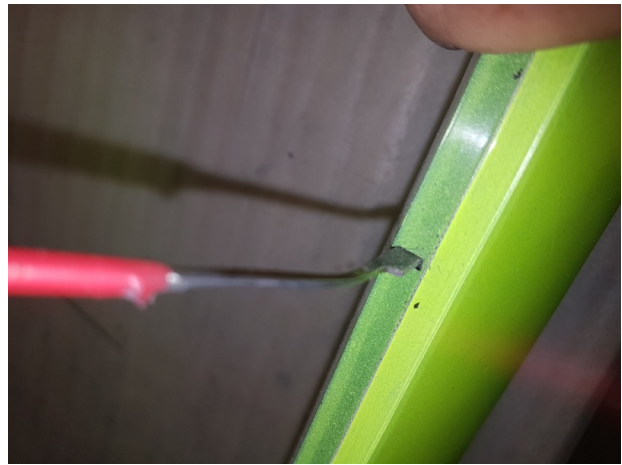
We advise to install all servos in servo frames. You can choose LDS or top drive installation (this manual).

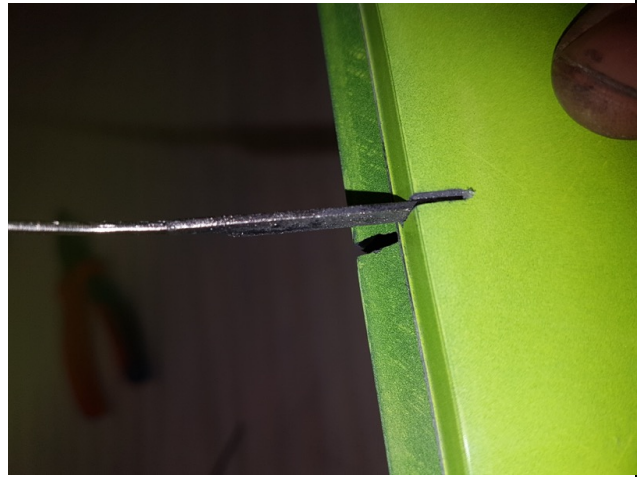
The wing already has a molded channel for servo rods. Cut slot for horns as on the pictures

Check that the flap servo arms are set 90 degrees on the servo and that the transmitter also is set to neutral or use servo tester to set neutral position.

Before glue servo frame with servo installed make sure flaps have offset about 18-20 degrees down and equal for left and right of the wing.

Glue servo horns only with epoxy.

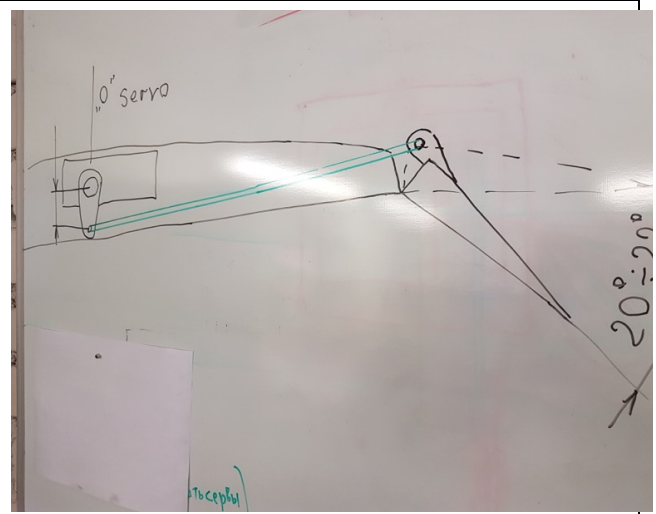
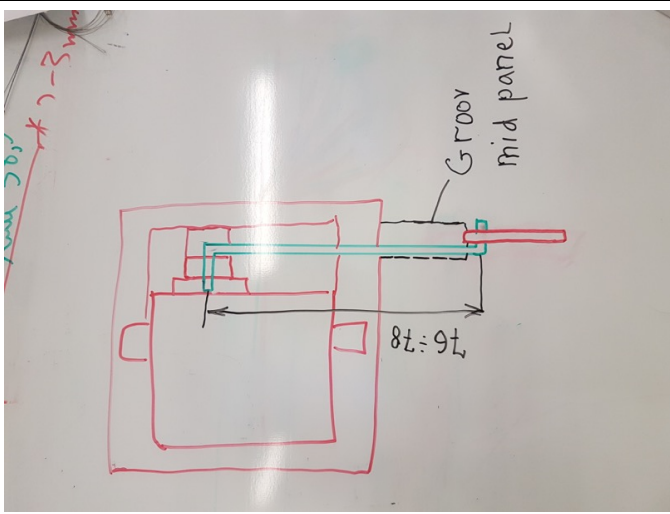
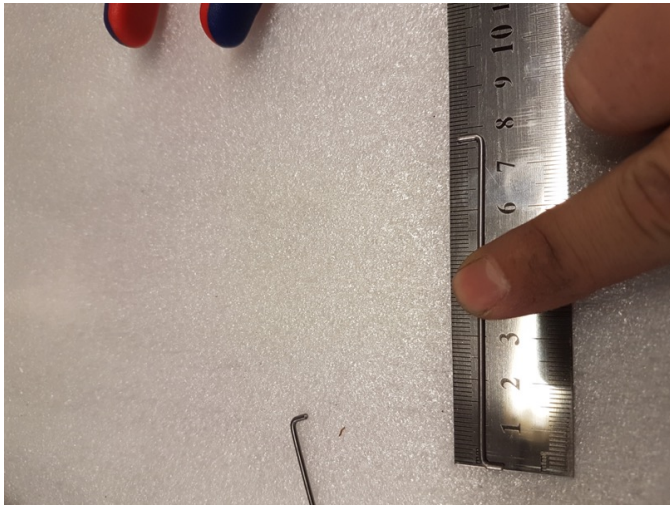




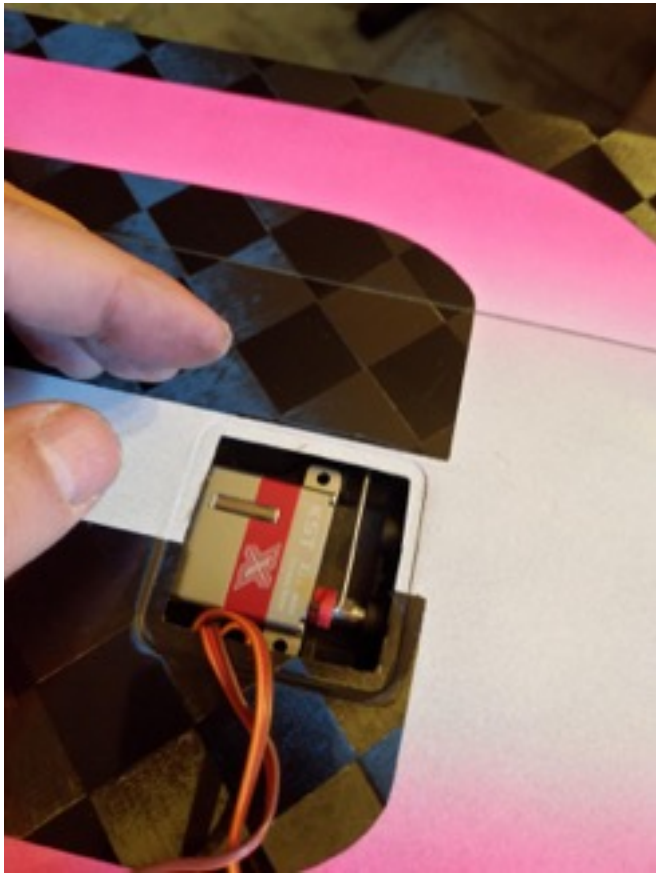
The length of the roads 76-78 mm

It makes 18-20 degree of down flaps





Install balsa patch to protect rods from loose during the moving

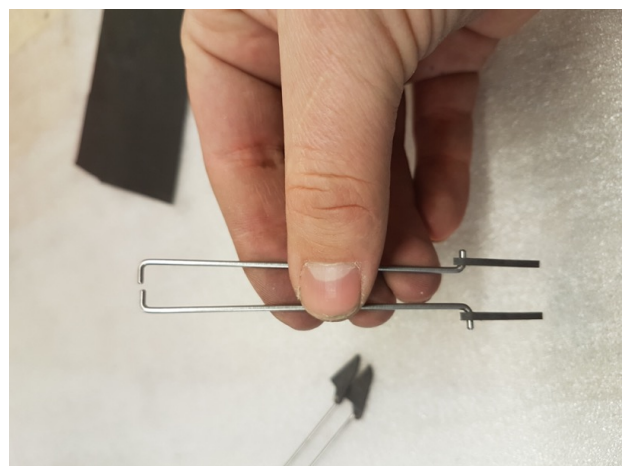


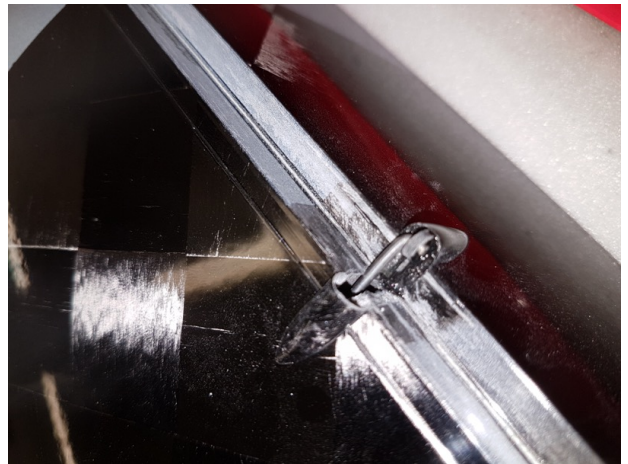
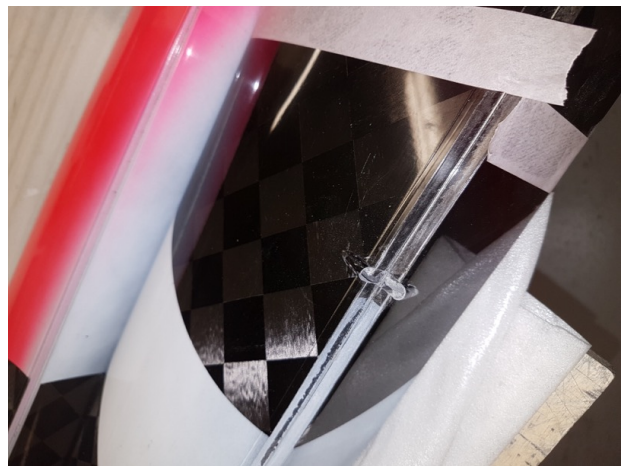
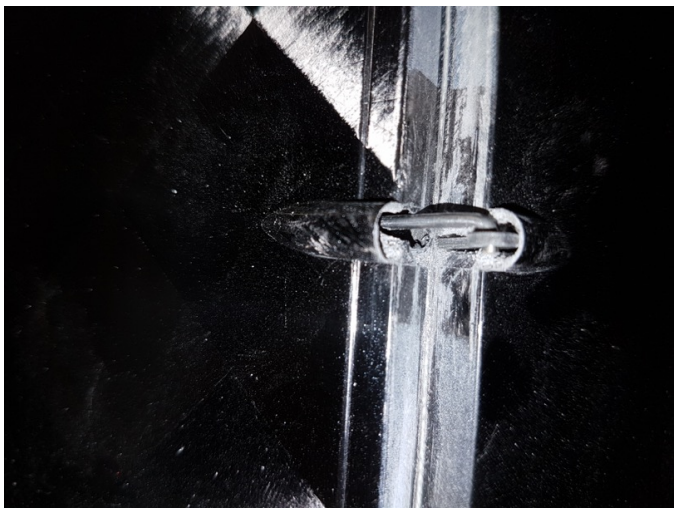
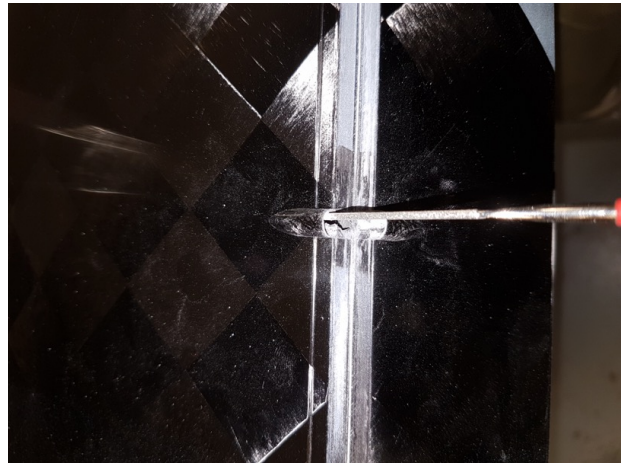
### Ailerons servo installation

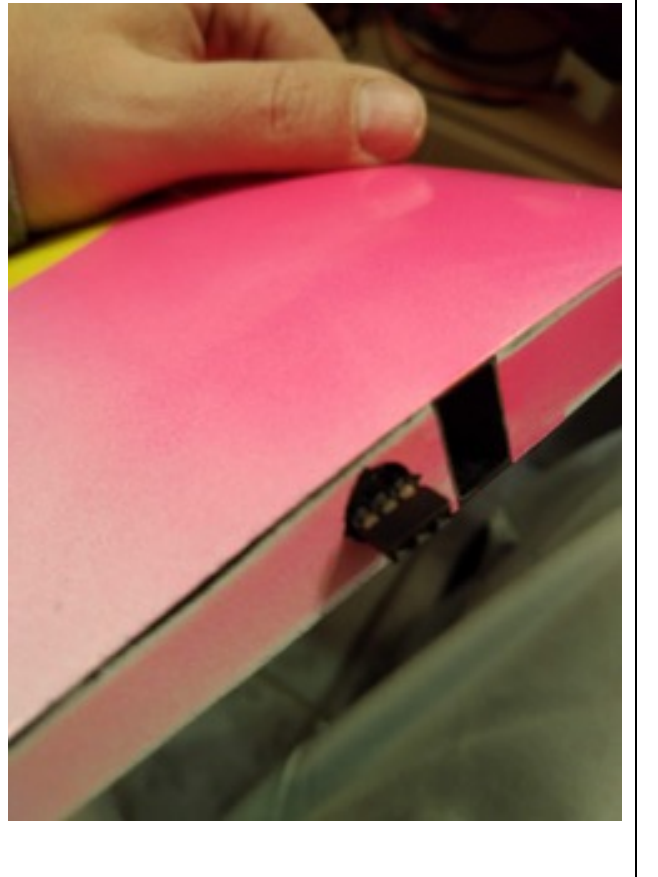
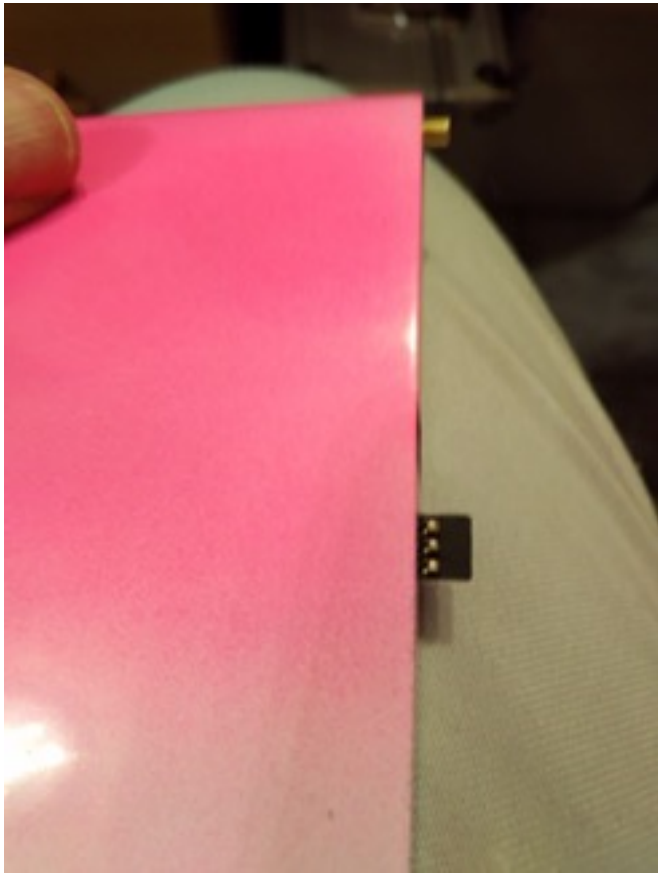
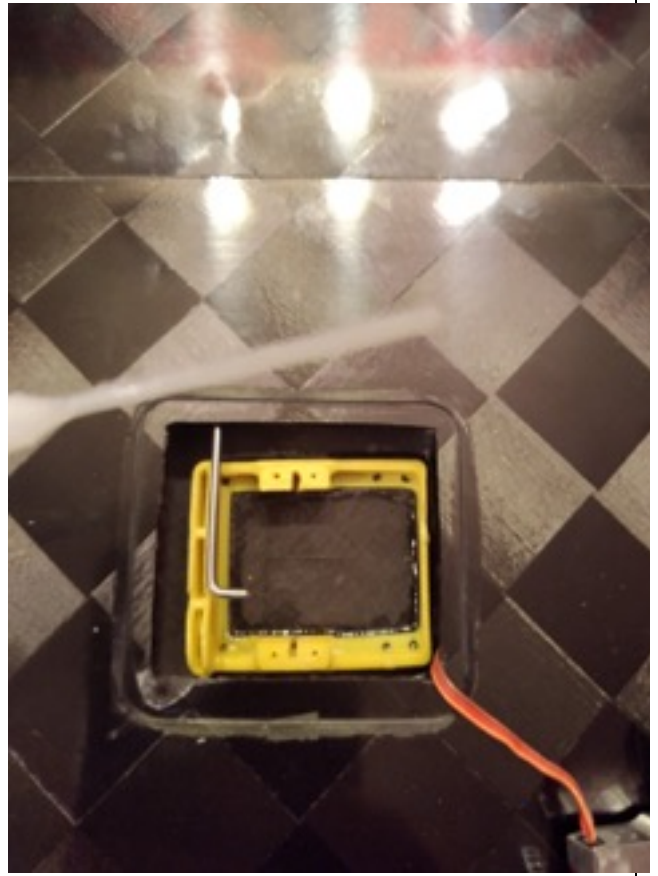
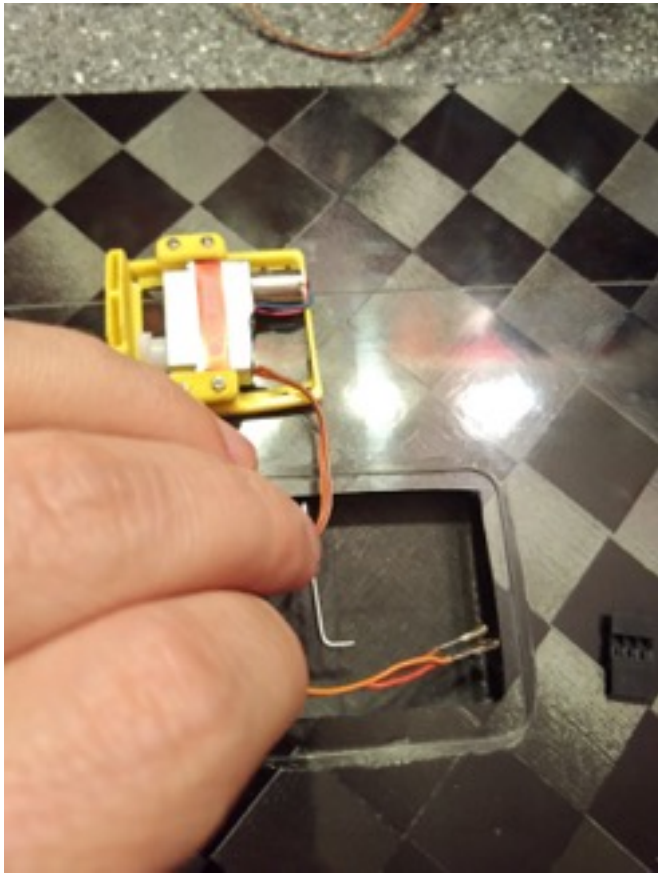
Prepare rods with a shape described below.

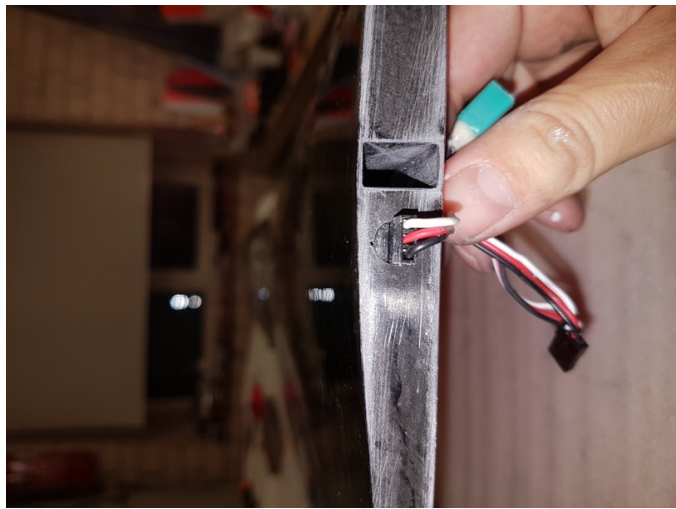
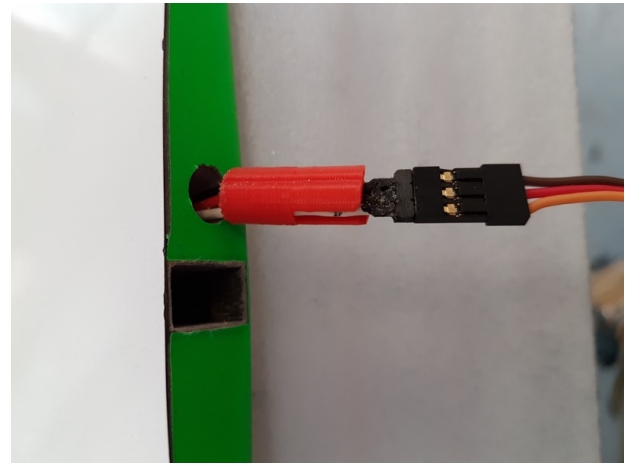
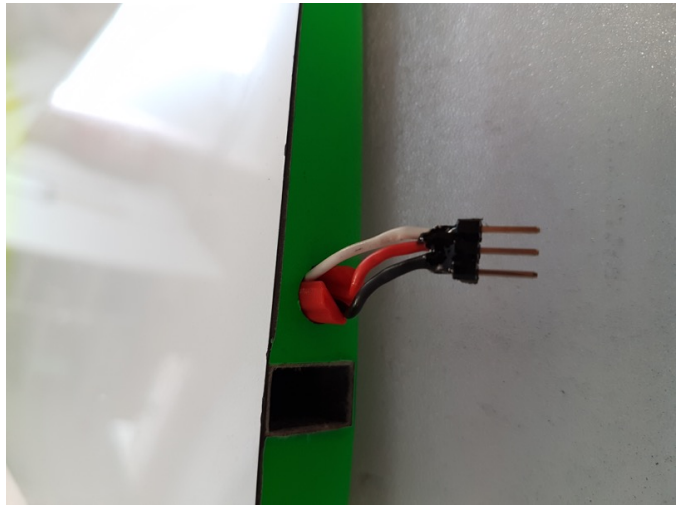
Check that the aileron servo arms are set 90 degrees on the servo and that the transmitter also is set to neutral or use servo tester to set neutral position.

Glue servo horns only with epoxy









## Sense Settings (-up, +down, ° degrees)

CG 100-107 mm, we recommend to start with 103 mm.

For windy or turbulent conditions move CG forward a little, for late evening or flat conditions move CG slightly back.

Flying light Sense in an active air, we recommend to move CG forward as well.

Our rule of thumb: a heavier Sense likes more camber

Flight Mode	Ailerons	Flaps	Elevator
Fast Cruise	0	0	
Cruise	+0.7	+0.7	
Speed	-1.5	-1.5	
Thermal 1	+2.5	+2.5	
Thermal 2	+4	+4	
Thermal Range	+2-5	+2-5	

Surfaces	Aileron	Flap	Elev	Rudder	Note
SnapFlap, Elevator full UP	+4	+4	-10		
SnapFlap, Elevator full DOWN	-1.5	-2	+9.5		Optional
Ailerons full UP	-19	-6		5	Ail-Rud is optional (not for thermal mode)
Ailerons full Down	+17	+7			
Breaks / Crow	-5	+70	+8		
Max Rudder				16	

## Using Ballast

Sense is very sensitive on a weight change. Some recommendations:

Wind speed (m/s)	Weight (gr.)	
2-4	1100-1300	
4-7	1300-1700	
7-12	1700-2100	

**WARNING.** The ballast tube does not have a stopper in the rare part, so if you want to use more than 10 chunks of ballast, wrap the last chunks with a tape to prevent them from rotation and possible jamming in the tube.