

# MB339 – Mounting instruction

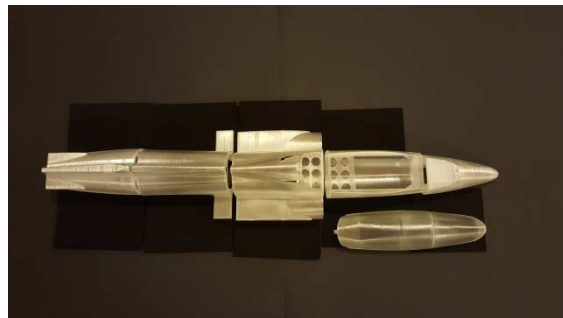
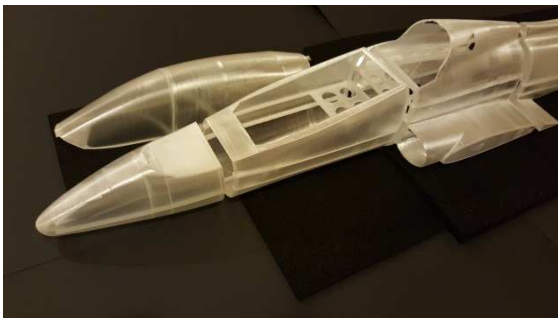


## ➤ **Materials / items required for assembly:**

- Bonding/glue: Cyanoacrylate medium, activator for cyanoacrylate and cyan spouts dispensers;
- Finishing sandpaper 500/320
- Carbon tube diameter 8 mm
- Carbon tube diameter 4 mm
- Carbon tube diameter 2 mm
- Alcol etilico
- Ethyl alcohol
- Cloth for ethyl alcohol (for cleaning surfaces to be bonded)

## ➤ **Preparative surfaces before bonding:**

The MB339 model is composed of several sections, which need to be glued together



Each section before being glued must be sanded very quickly to further refine the plan already created by the press, so that it is smooth and free of debris that might not do well pave surfaces. (Use abrasive paper 500/320).

Afterwards degrease with cloth soaked in ethyl alcohol the surfaces before bonding.

The above operations are very fast to perform, are indications to make the perfect job for the KIT assembly.

Use the cyanoacrylate medium to glue the sections between them, to avoid frittering of glue, use the cyan spouts dispensers for medium cyan and apply the glue in the edge inside of the plane (not to exaggerate with the amount, the cyanoacrylate on this type of materile has a strong seal and performs as a weld between the glued parts) use the activator to accelerate the drying of the glue. It is important to use the activator and nebulize in small quantities to avoid too rapid drying of the glue.

Once pasted section, in the inner part of the fuselage wipe across the board always with cyanoacrylate medium, the sections have been designed to allow the creation of this bonding also internally in the fuselage.

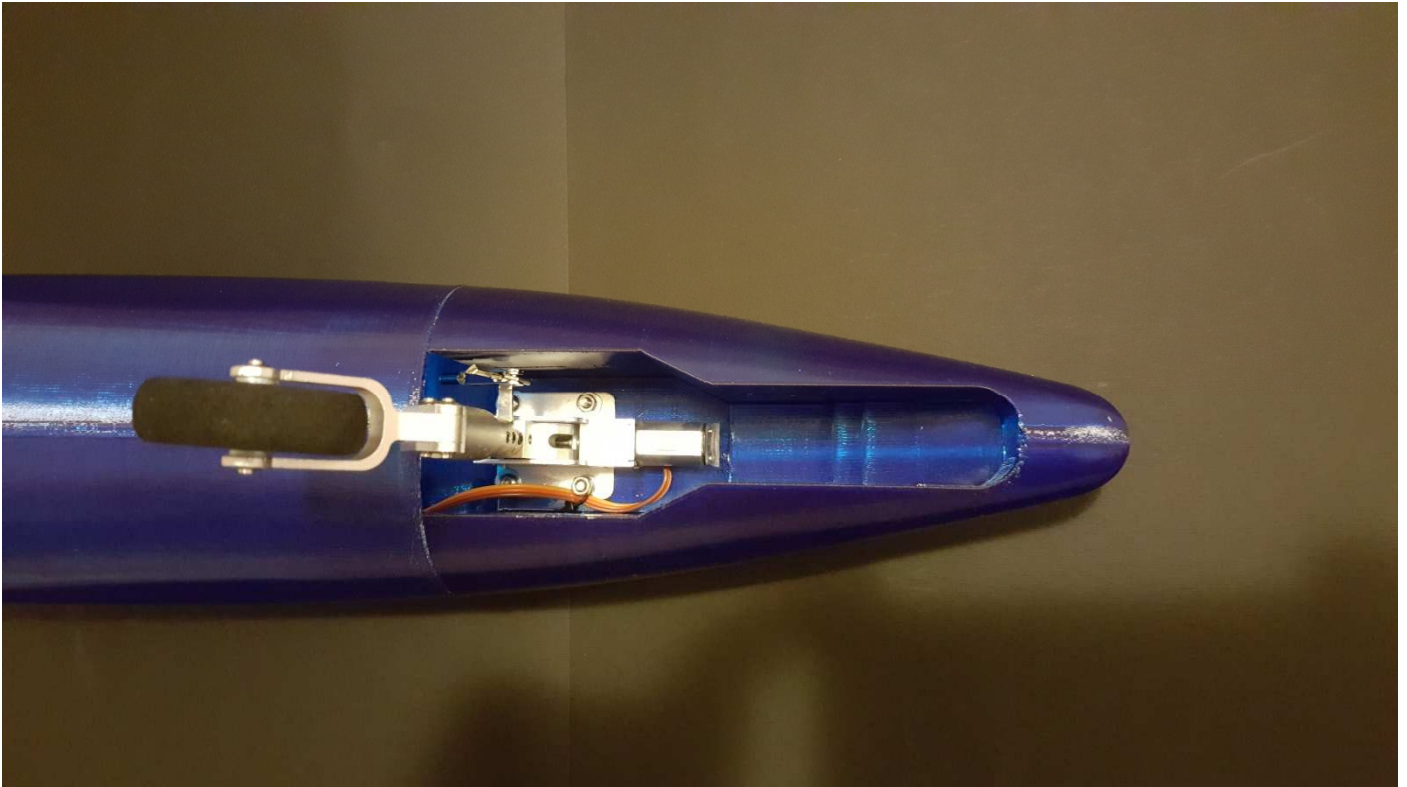
For facilitate the gluing of fusolsgr, divide the fuselage into two parts as in the following picture:



And then successively glue the two sections as follows:



A practical tip is to drilling the first front section for the front carriage before gluing, see the following photo:



In the particular photo of the assembly of the front retractable machine.

N.B. The kit used by Turnigy for reach trucks has a 45mm diameter wheel on the front landing gear, I recommend replacing it with a 40mm diameter wheel to give the model the right trim. I also recommend changing the shock absorber spring because it is very stiff and tends to make the nose bounce too much, so I recommend using a softer one (in any case, you can still try with the original spring, then consider changing it).



➤ **Assembly of the wings :**



Before inserting and gluing the wing sections, I recommend drilling the holes to screw the machines onto the wing section. It is very important to use a flat head screw of the right length in order to use the entire internal thickness of the wing where there is the structure that guarantees the right seal to the machine and the correct anchorage of the carriage. Use screws max 3.5x25 mm.



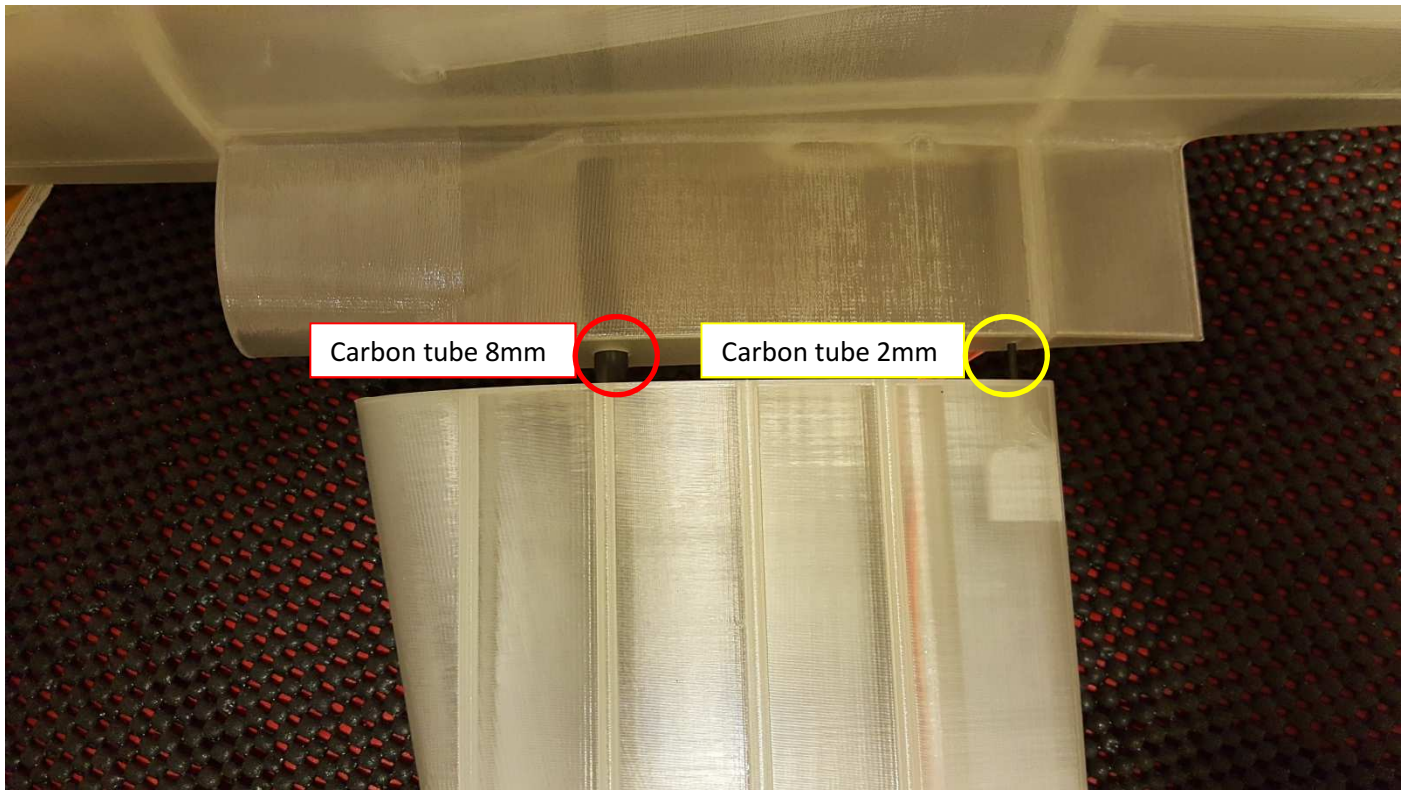
Before screwing the machine, insert a washer between the wing hole and the machine, in order to correctly align the machine with the surface of the wing (see red circles in the photo above).





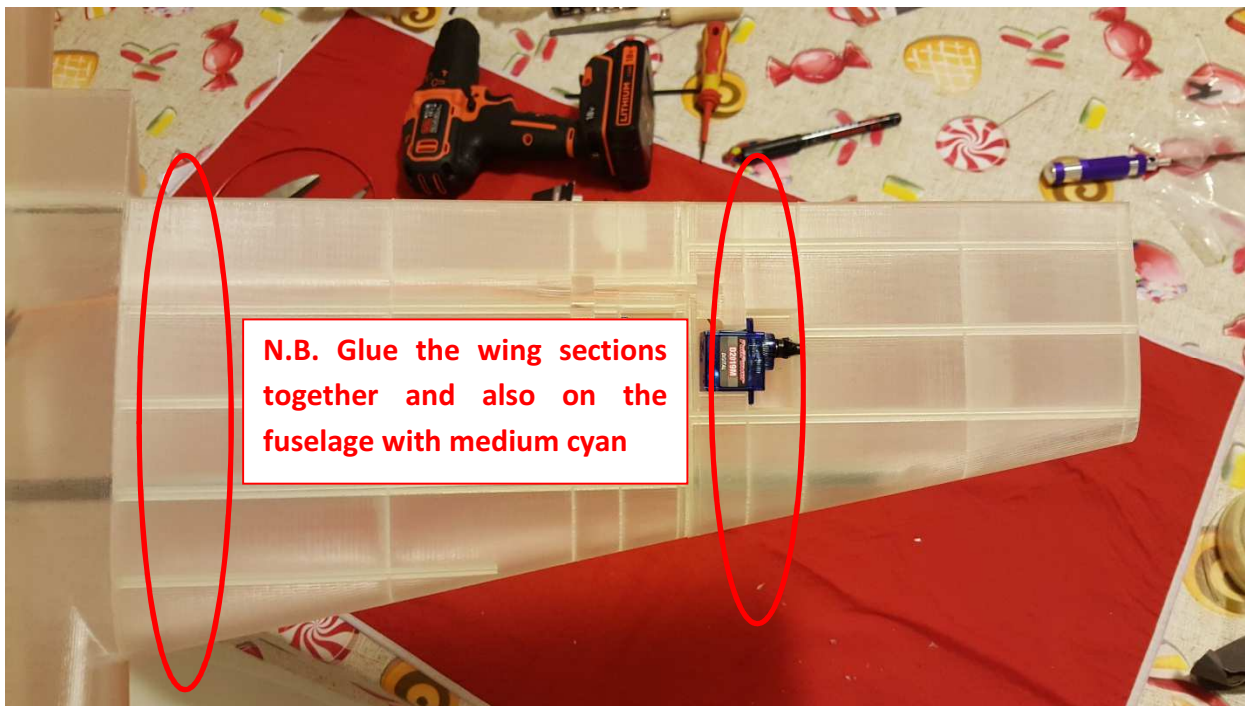
For convenience, also screw the servos into the housing in the wing, use the cable gland inside the wing for the wires.

Once the assembly of the two wings is complete, insert them in the central section of the fuselage using a carbon tube with a diameter of 8mm with a length of 75 cm, and use a carbon tube with a diameter of 2mm for the coupling and alignment of the wing, see example in the photo:



The 8mm carbon shaft naturally passes through and takes both wings, if the tube does not pass well in the hole in the main section, use an 8mm iron drill bit to widen the hole (carbon rods are not all the same, so the hole can consequently be too precise)

While as regards the 2mm carbon tube, it must not pass through and must be inserted up to the internal housing of the main section, in order to avoid it being forward of the fan mouth. The 2mm tube is only used for aligning the wings with respect to the fuselage.



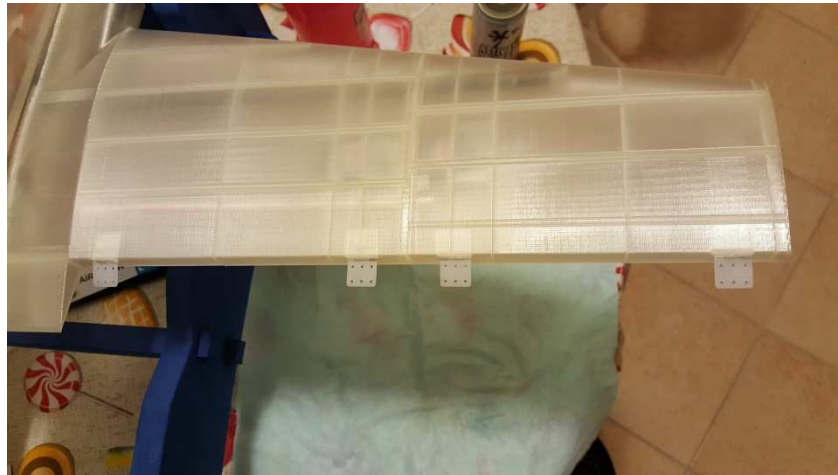
As reported in the previous photo, it is very important to glue all the sections of the wings together and also on the support surface of the central section of the fuselage, this guarantees the correct functioning of the whole structure of the wing. servos / landing machines are guaranteed by the internal passage of the cables in the wing, so there is no need to disassemble the wing.

- **Assembly of moving parts :**

All the moving parts of the model are designed to house the nylon hinges type 16x28.5 or alternatively also the elastic ribbon ones, below a series of illustrative photos:



Hinge detail for top photo above and hinge detail wing photo below.

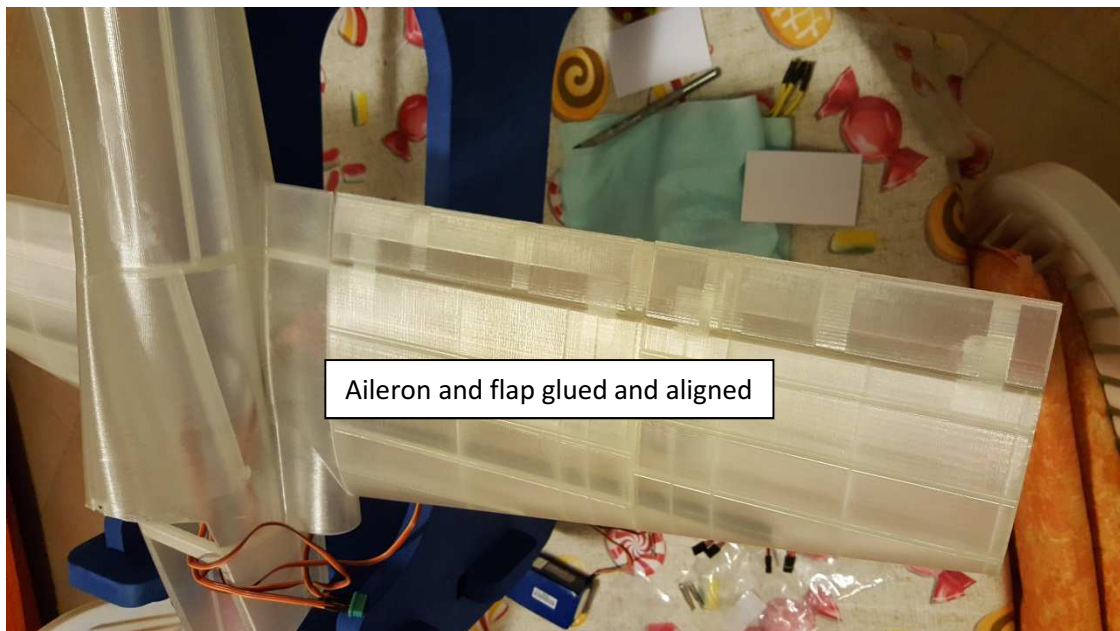
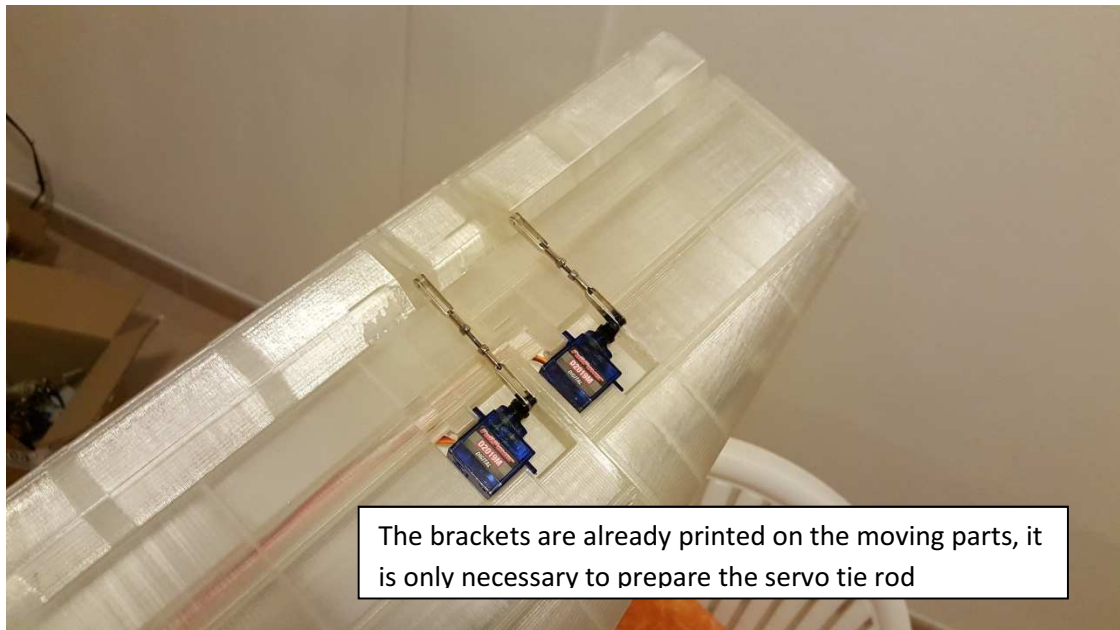


Glue the two sections of the  
ailerons



The gluing of the hinges can also be reinforced from the lower part of the moving parts

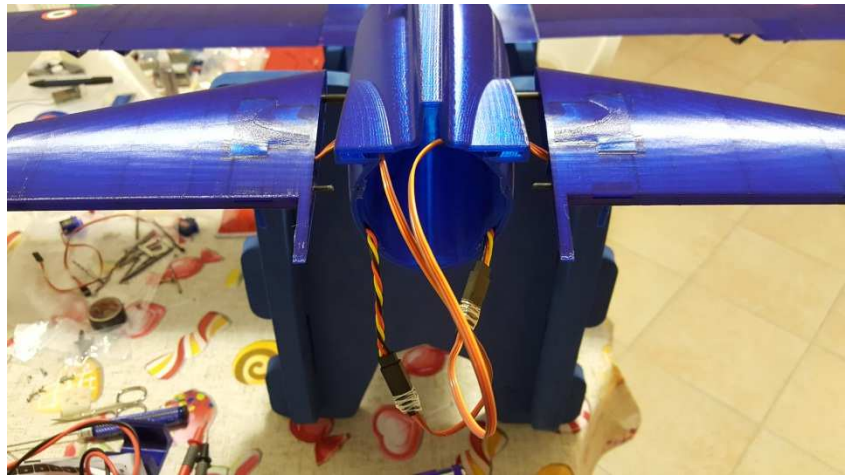
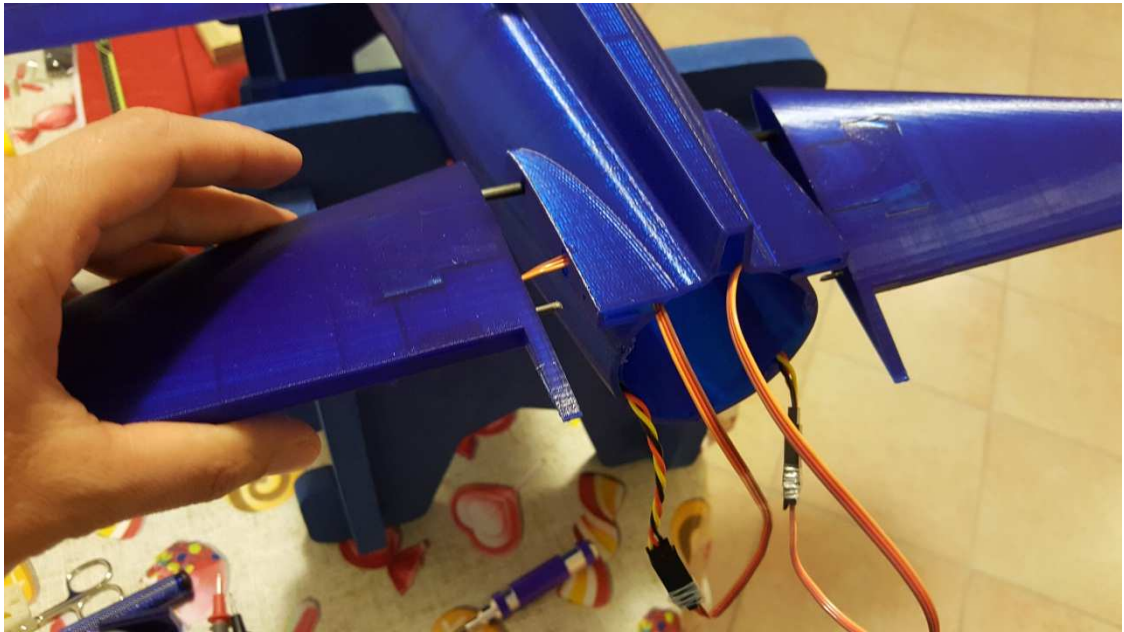




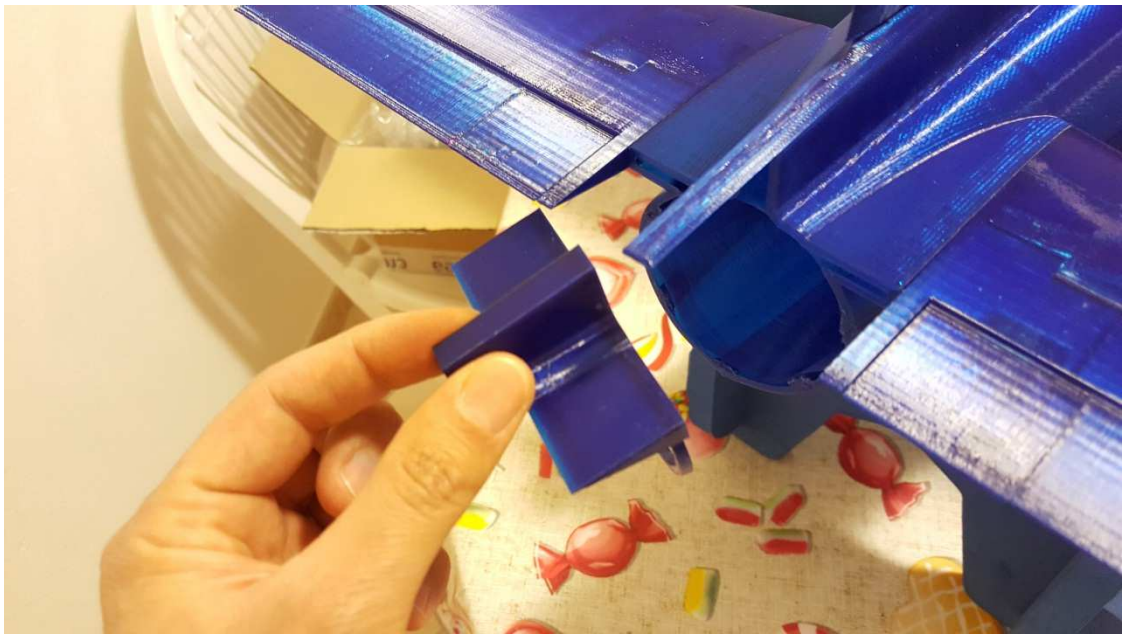
➤ **Assembly of elevation plane and rudder:**

For the mounting of the platforms and the rudder, a 4mm diameter carbon tube (which will pass through both shelves) and a 2mm diameter tube which will only be used exclusively for aligning the parts to the rest of the fuselage, therefore not passing through, are required, see photo:

All parts must be glued together successively with medium cyan.











Carbon tube diameter 4 mm also for the rudder section.

➤ **Motor assembly : it is recommended to install the motor before assembling the elevation plans**

The engine is housed immediately after the center section of the fuselage and is accessible from a screwed panel under the fuselage. The model is designed for 70mm fans, so it can accommodate different types. The fan is installed by simply screwing in screws.

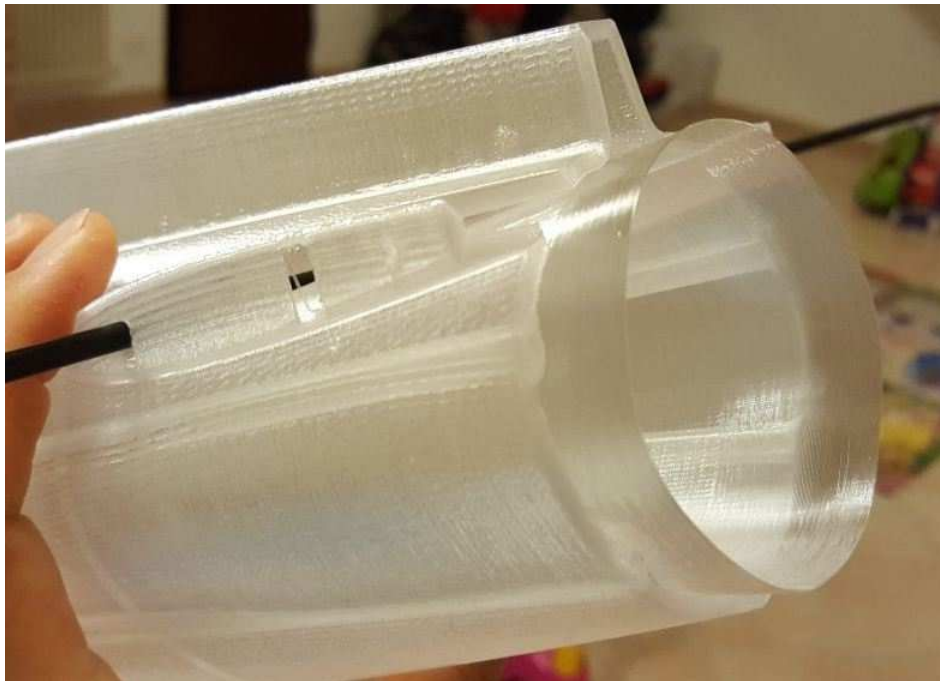
The venturi exhaust pipe is supplied in the model kit and consists of two telescopic sections to allow easy insertion inside the fuselage, once inserted the two sections can be glued together.



Venturi tube



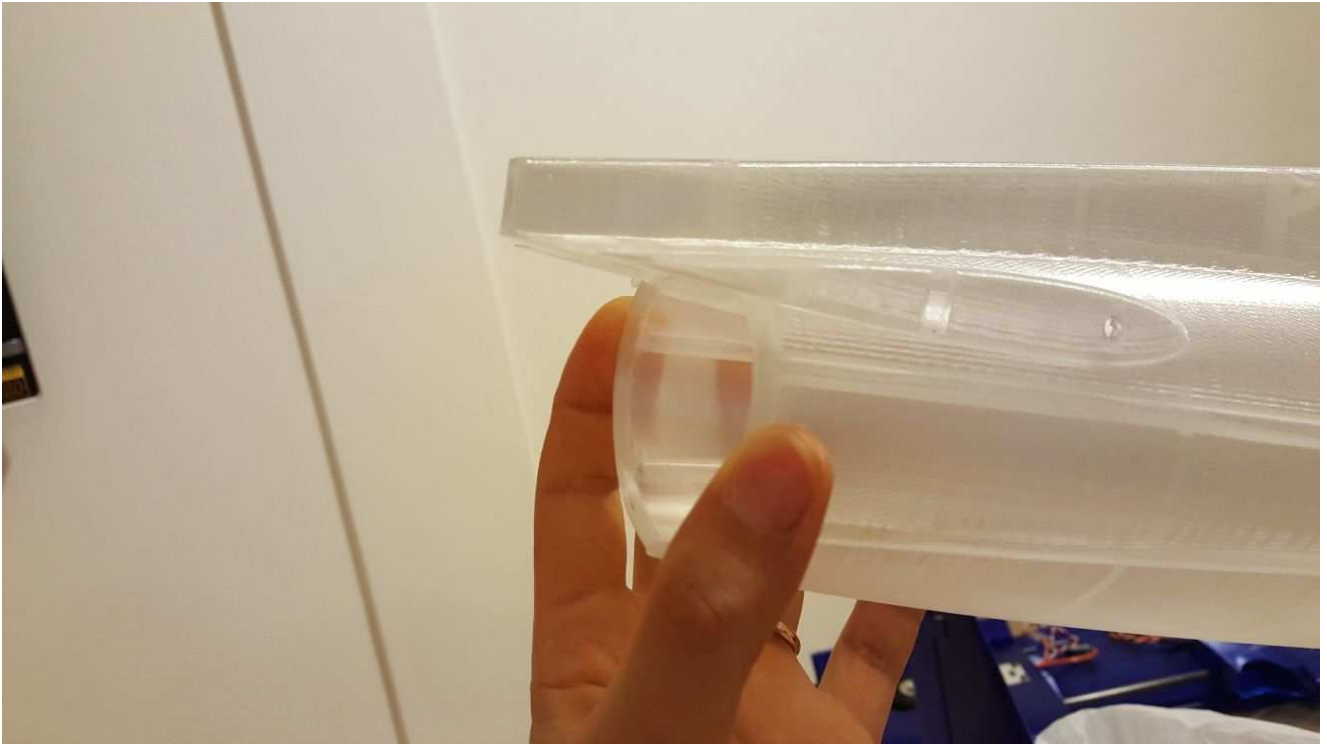
Venturi tube extended ( example with fan)



Venturi tube inserted inside the fuselage



Venturi tube cut flush with the fuselage

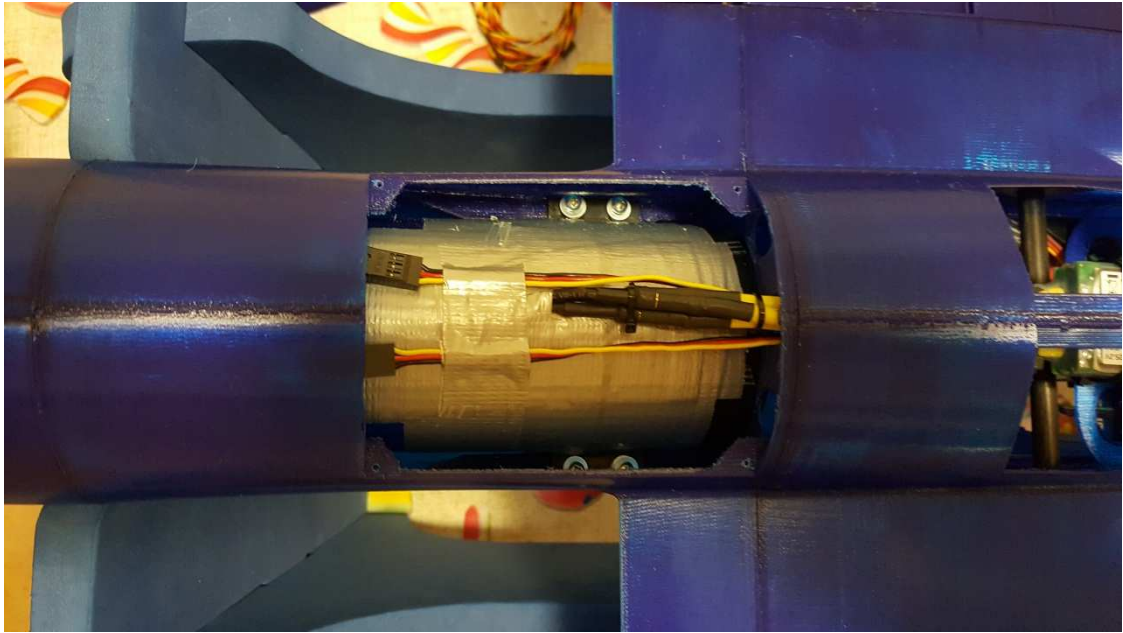


Venturi tube cut flush with the fuselage

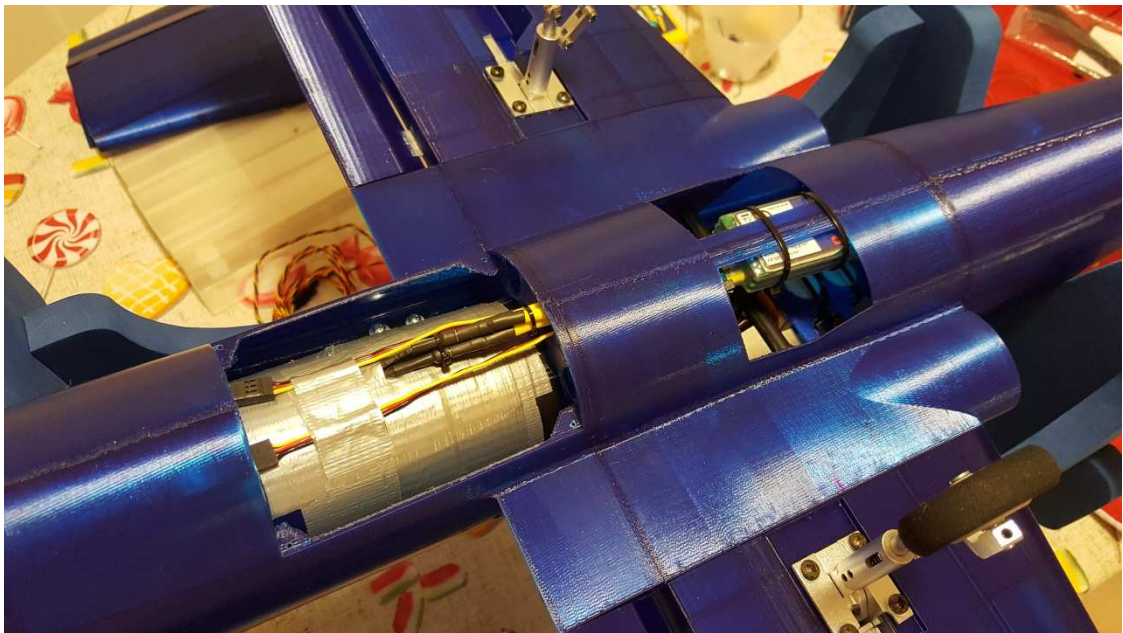


Detail of rear tube venturi (example with vemotec fan)

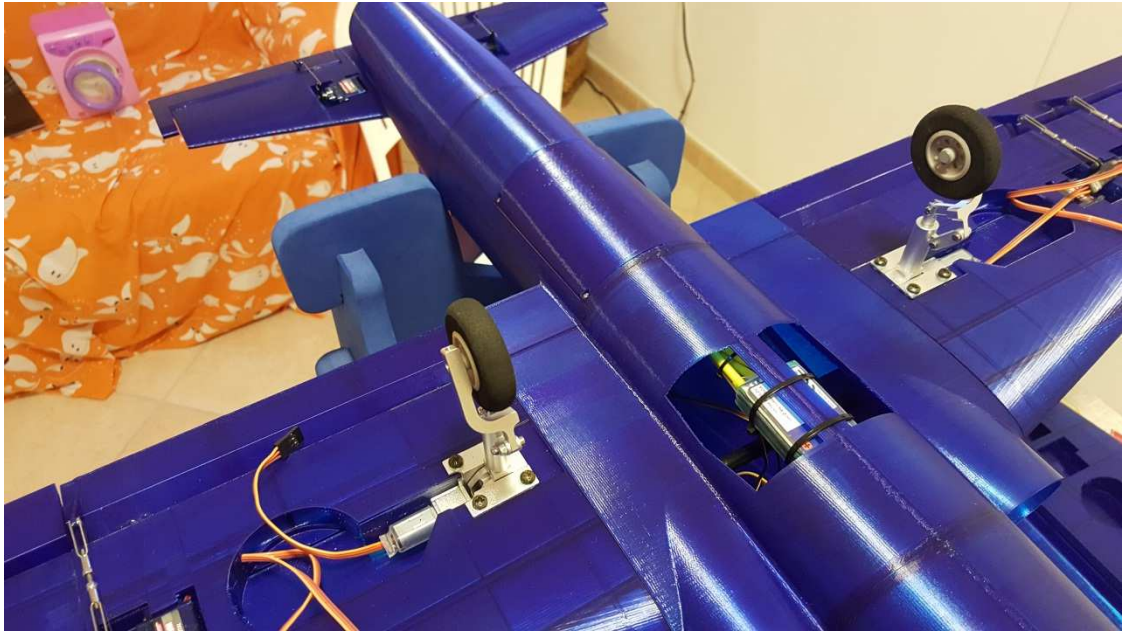




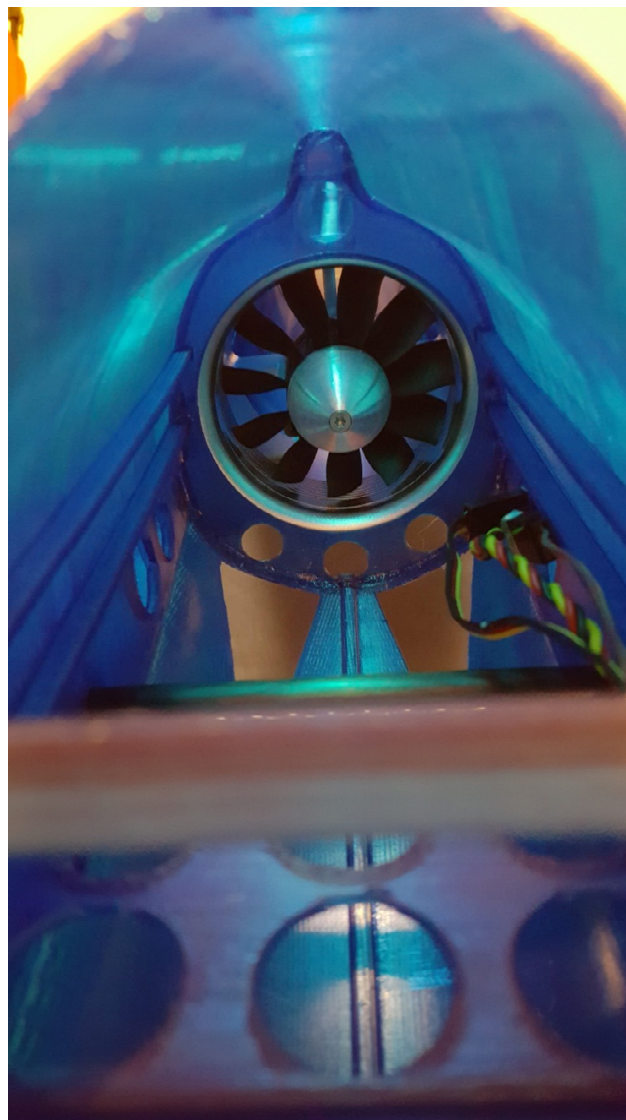
Housing of the engine unit inside the fuselage



Motor unit with detail of air intake and regulator installation.



Closing the motor access hatch (screw diameter 2mm and screw head maximum diameter 3.5mm)

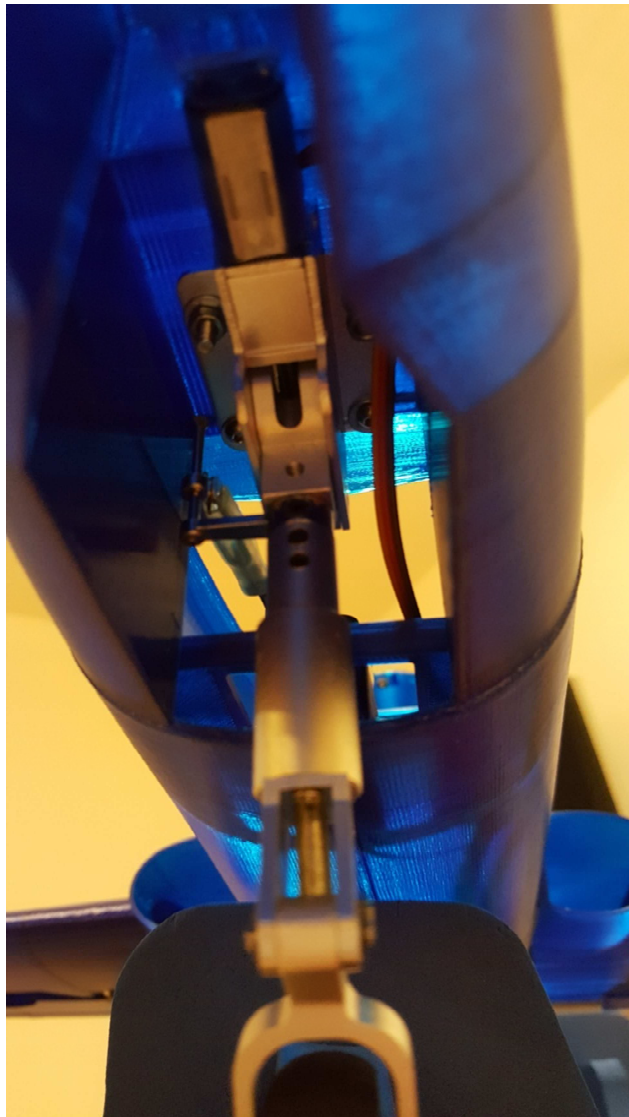
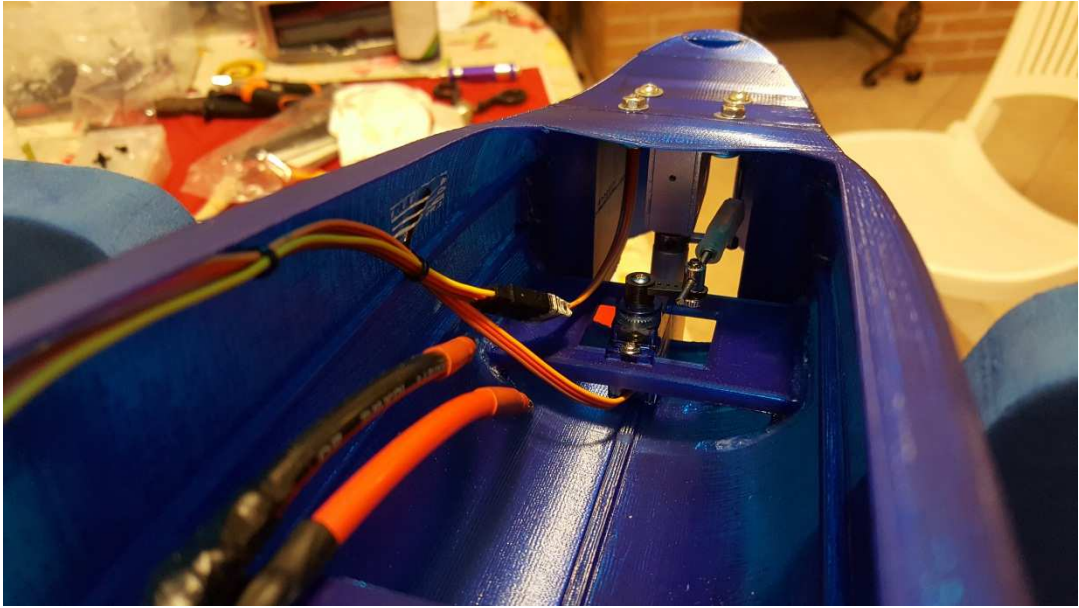


Focus on the fan assembly inside the fuselage

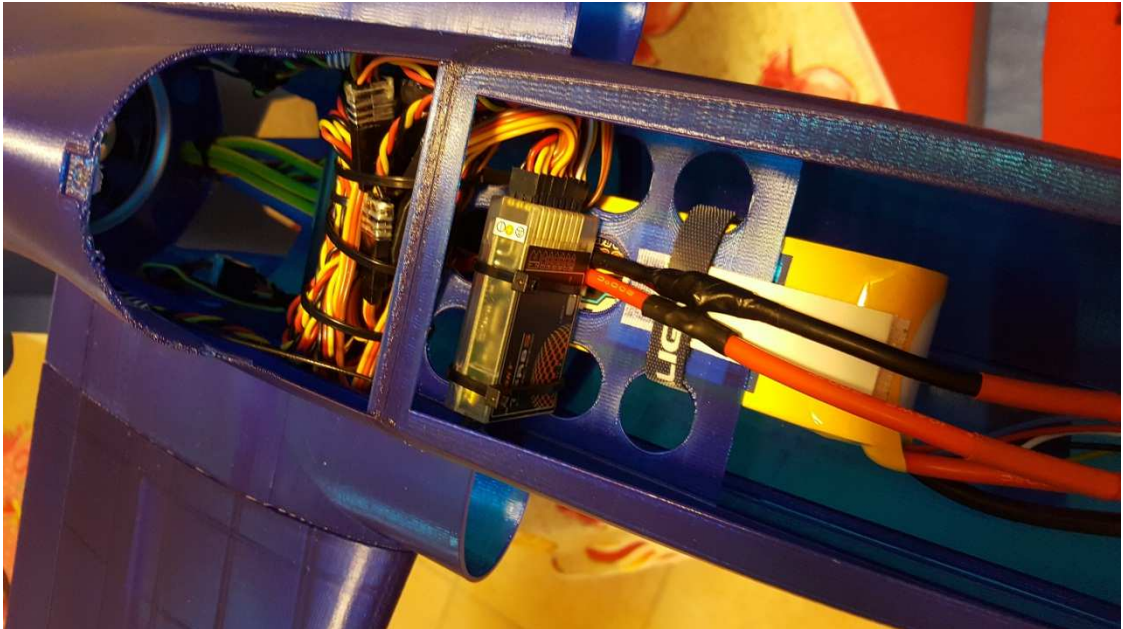


➤ **Front servo support :**

Install the servo base for the rotation of the front leg as in the photo:

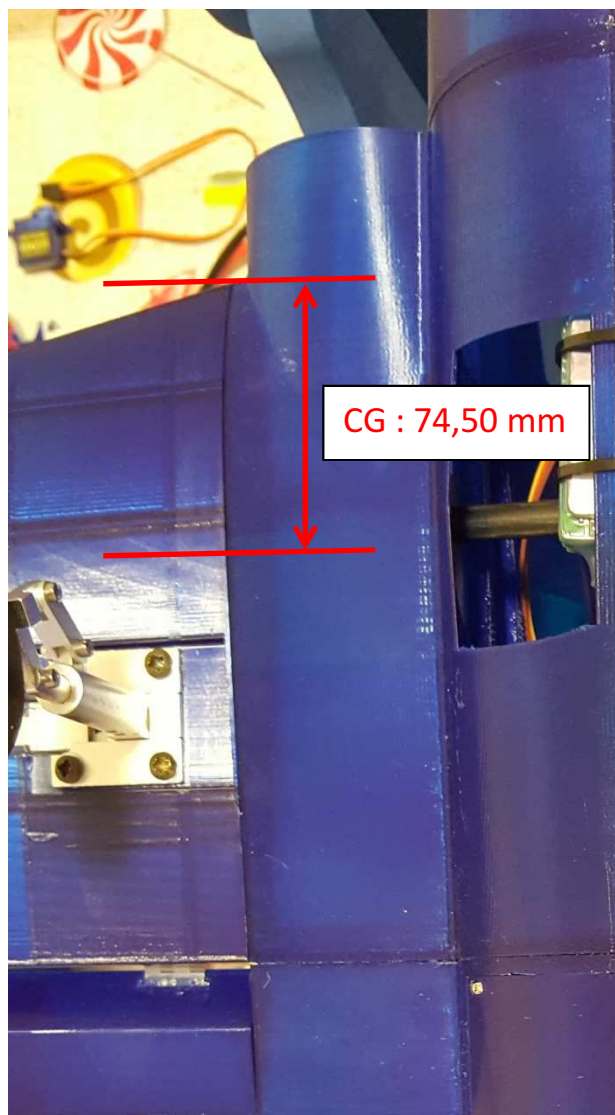






Possible battery locking system with strap. It is recommended to insert a soft sponge-like shim under the battery to avoid keeping the battery dead weight on the rib support.

➤ **CG model :**



➤ Decals PAN :



**Moving parts setting**

Rudder :  $\pm 18\text{mm}$

Elevator :  $\pm 10\text{mm}$

Aileron :  $\pm 8\text{mm}$