

**AERMACCHI MB339
FOR 8/10 KG TURBNE
COMBO VERSION**

Dear Customer, Thank you for purchase our mb339
Following you can find greater information for build and fly this model. Before you get started building and setting-up your aircraft, please make sure you have read this instruction manual, and understood it. If you have any questions, please don't hesitate to contact us.

Liability Exclusion and Damages

You have acquired a kit, which can be assembled into a fully working R/C model when fitted out with suitable accessories, as described in the instruction manual with the kit.

However, as manufacturers, we at C&C Models are not in a position to influence the way you build and operate your model, and we have no control over the methods you use to install, operate and maintain the radio control system components. For this reason we are obliged to deny all liability for loss, damage or costs which are incurred due to the incompetent or incorrect application and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by binding law, the obligation of our company to pay compensation is excluded, regardless of the legal argument employed.

This applies to personal injury, death, damage to buildings, loss of turnover and business, interruption of business or other direct and indirect consequent damages. In all circumstances our total liability is limited to the amount which you actually paid for this model.

BY OPERATING THIS MODEL YOU ASSUME FULL RESPONSIBILITY FOR YOUR ACTIONS.

It is important to understand that C&C Models, is unable to monitor whether you follow the instructions contained in this instruction manual regarding the construction, operation and maintenance of the aircraft, nor whether you install and use the radio control system correctly. For this reason we at C&C Models are unable to guarantee, or provide, a contractual agreement with any individual or company that the model you have made will function correctly and safely. You, as operator of the model, must rely upon your own expertise and judgement in acquiring and operating this model.

Attention: modify can be made from us without any advise, if you have doubt in the assembling please contact us by email to info@cmodels.it

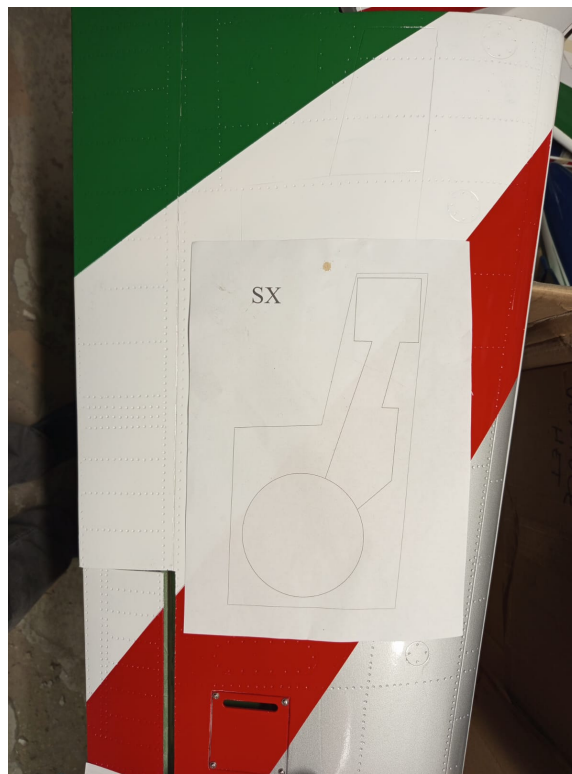
BEFORE START YOU MUST DECIDE IF USE MODEL WITHOUT GEAR DOORS OR WITH IT

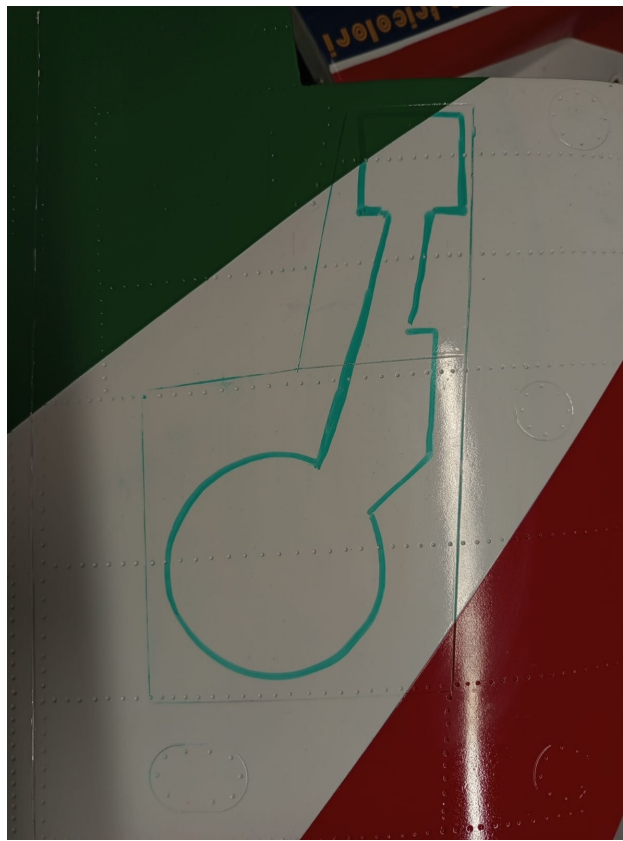
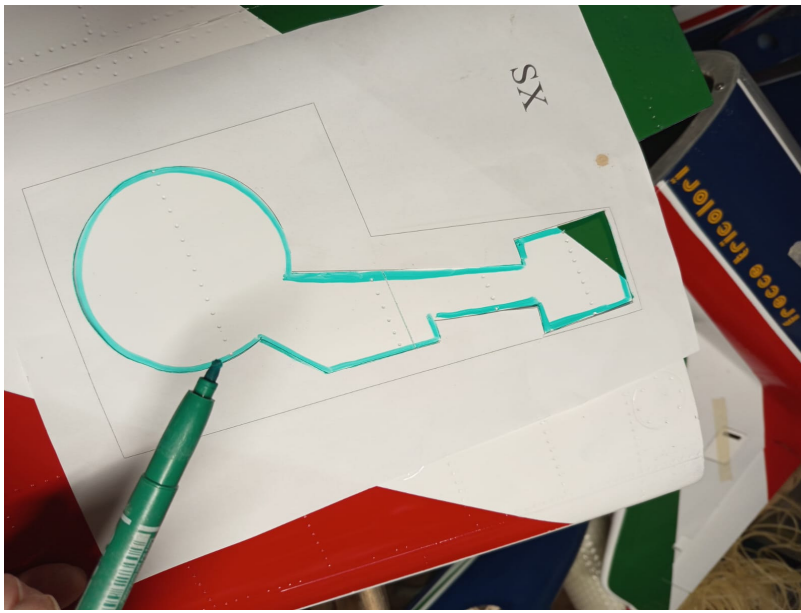
SO YOU HAVE 2 OPTIONS

1 : USE WITHOUT GEAR DOOR, more simple and save installation of 5 servos

2 : USE WITH GEAR DOOR,

OPTION 1 : use without gear doors,
included in the kit you will find 3 pcs templates to open holes in the wings (left and right) and in the nose, this formers are for retract ,leg and wheel .
Take the template and cut out as per picture below

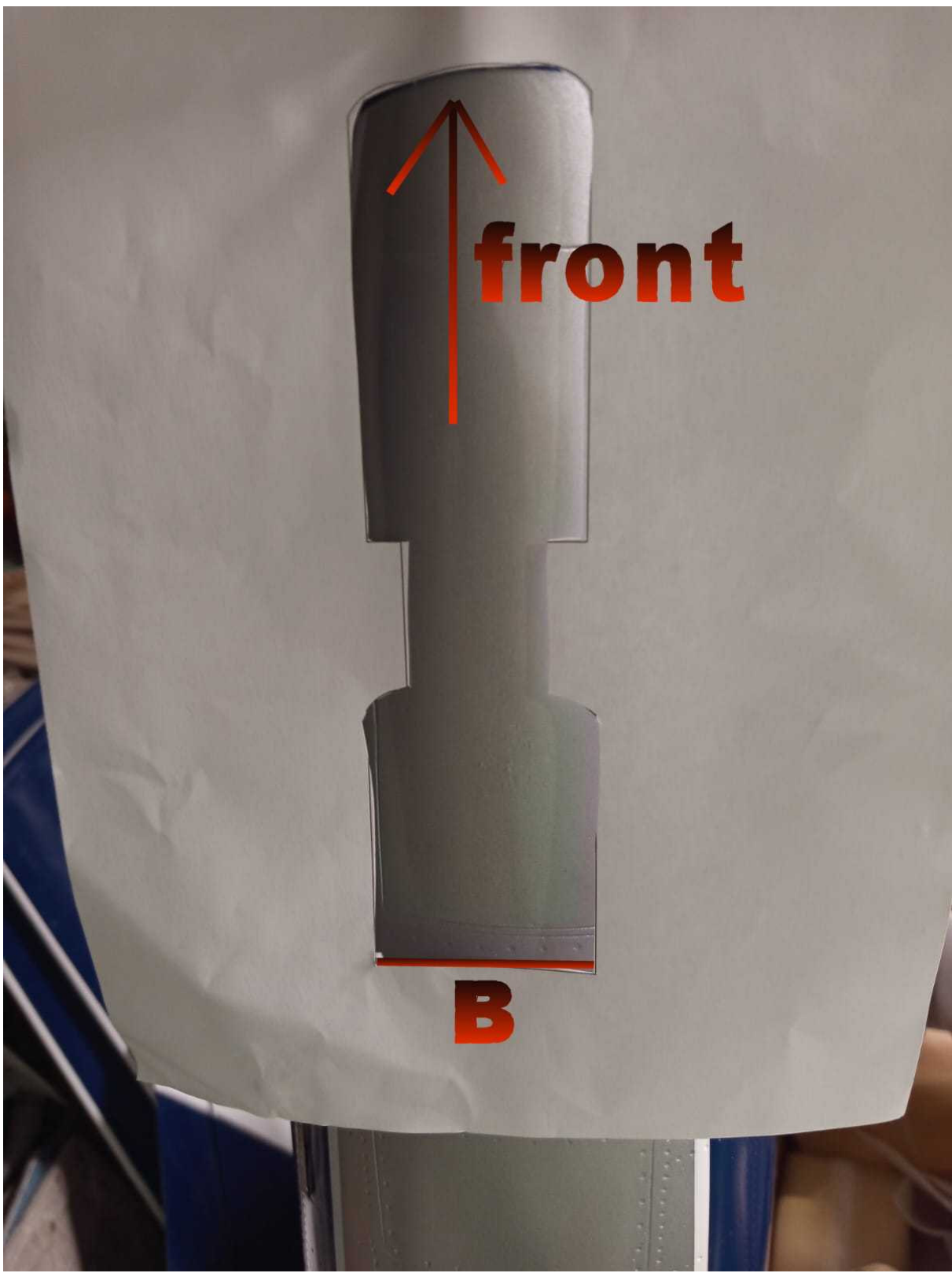




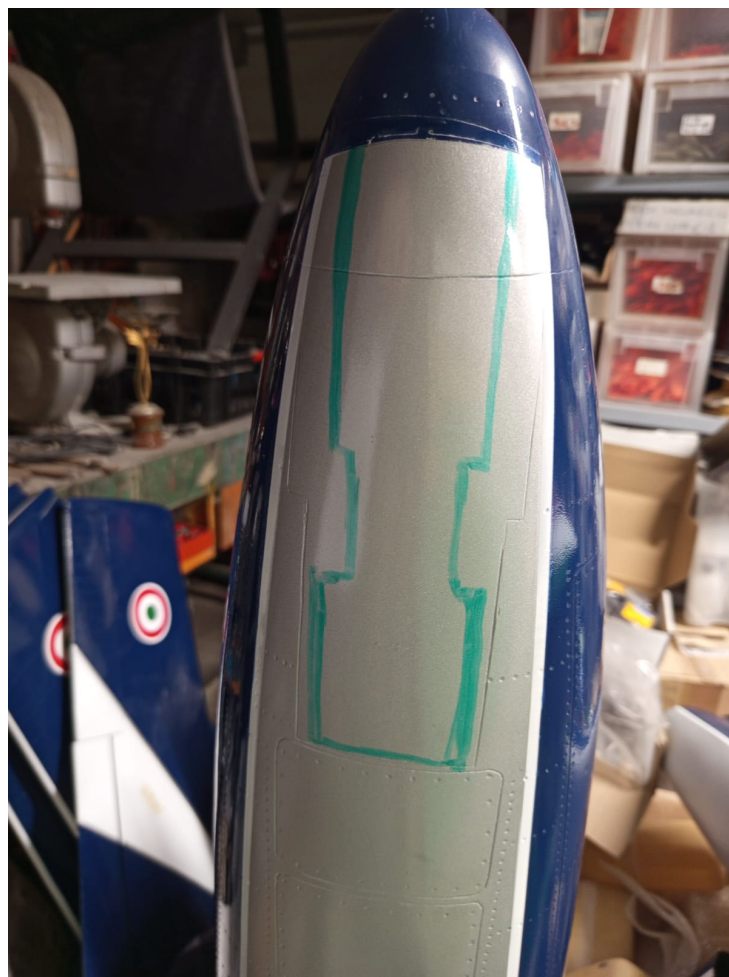
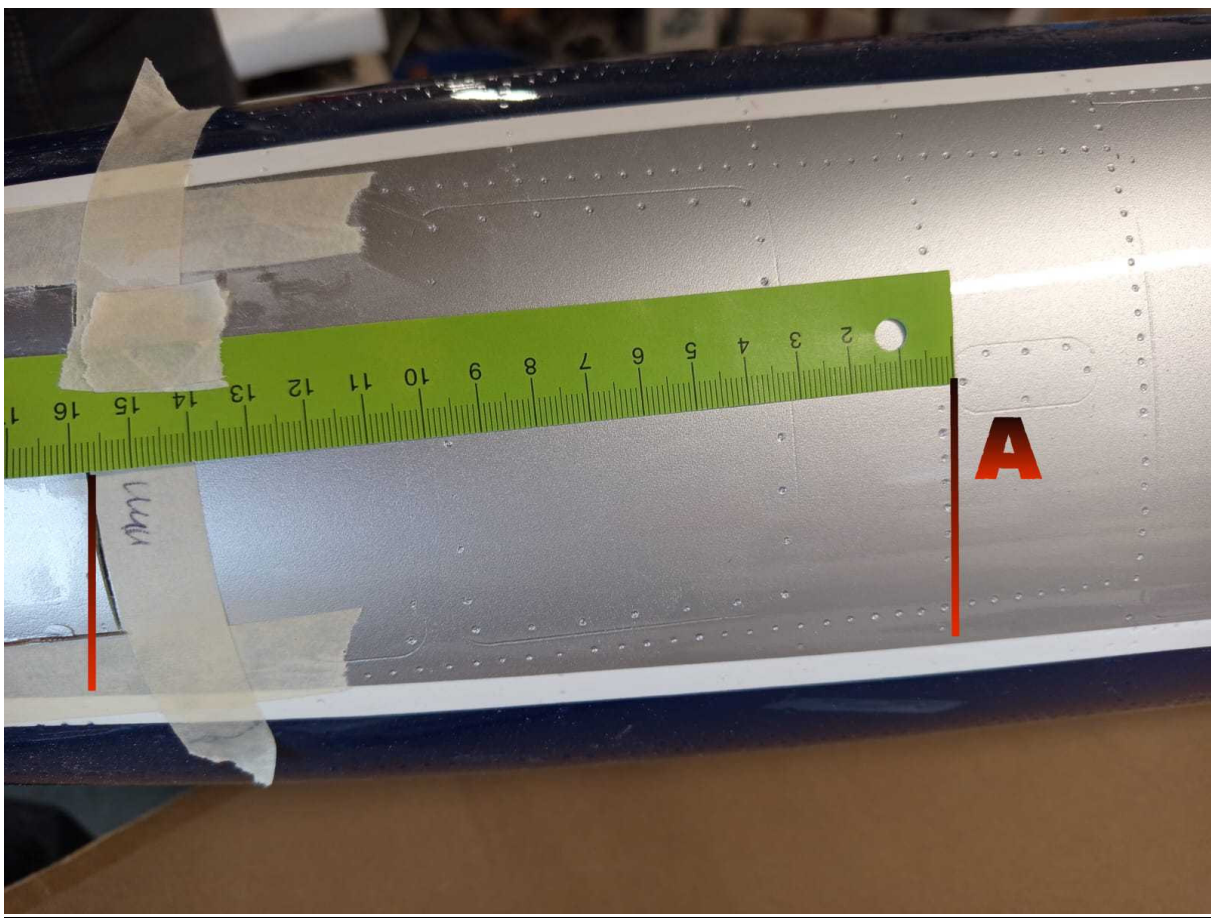
Place the template on the wing,align the template to the lines on the wings with a marker contour around it

Make opening around 5mm smaller than template, you can later adjust easily

Place the template on the nose fuselage and make the same work



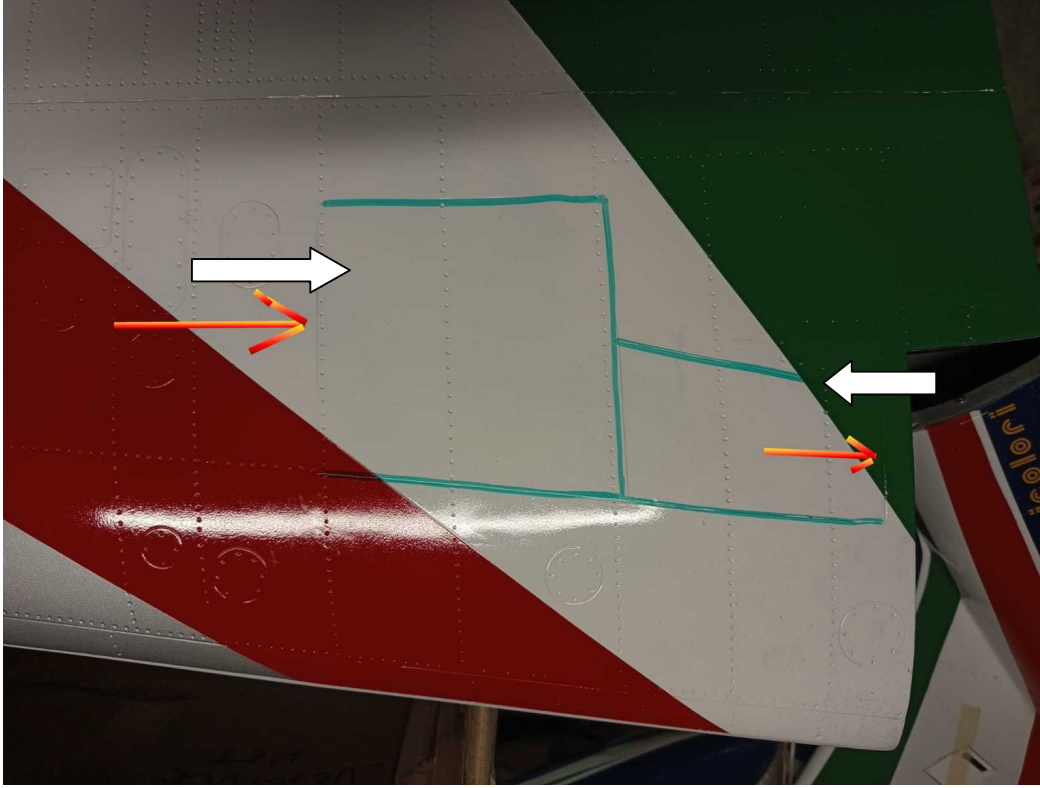
Be sure the cutting of the line marked B must be at 15,5 cm from line A see below



Cut little bit smaller, you can adjust later

OPTION 2: use with gear doors

Integrated in the lamination of wing they are Elastic hinges so you must cut the doors only on 3 sides(around green marked line,don't cut where are the arrows) see picture below,after cutted you can see the 2 doors move easily,



Now you must install servos for operating the big doors, the small one move together the leg.







Around door perimeter glue a stripe of wood

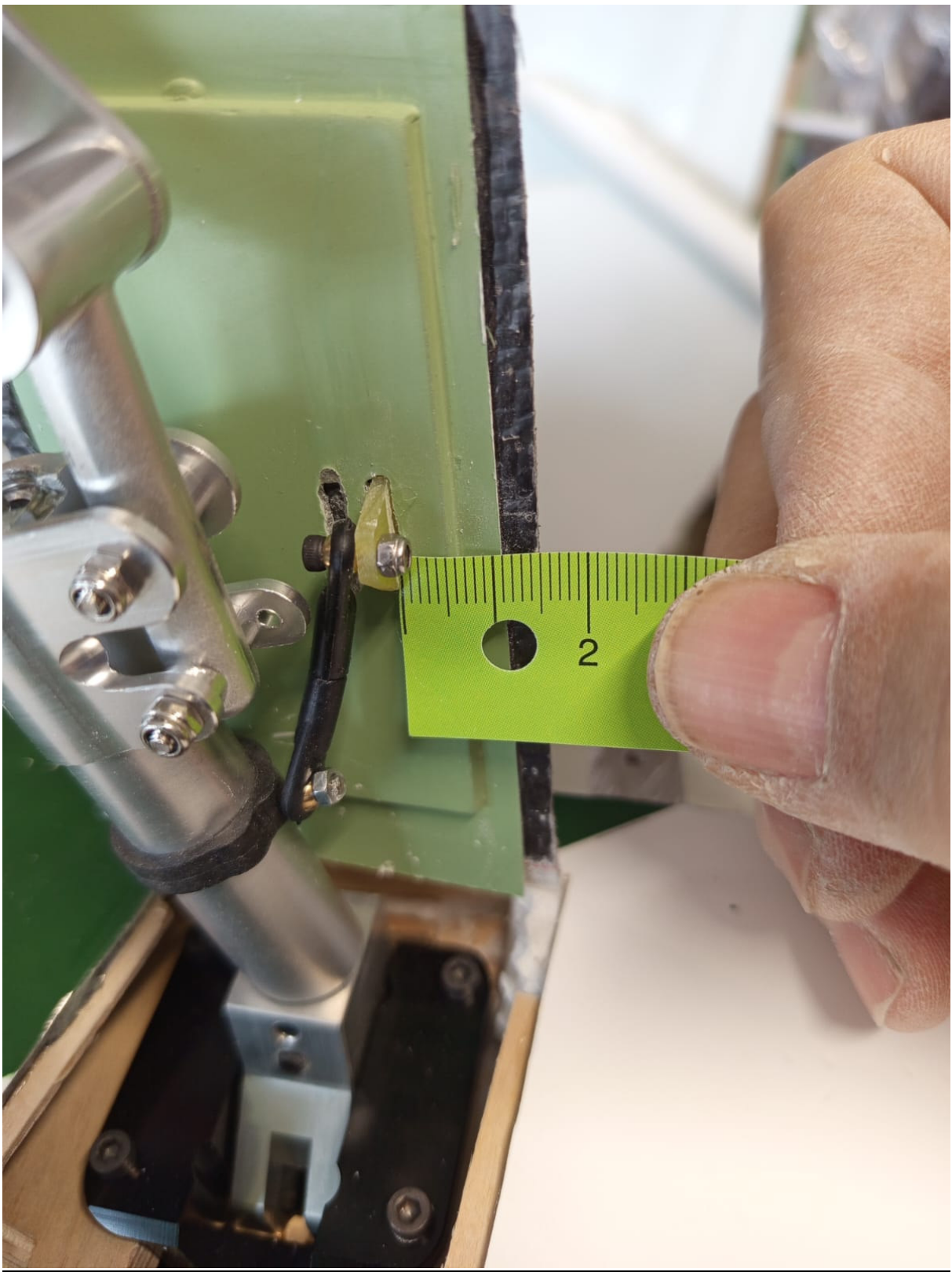




Big Door hinge position



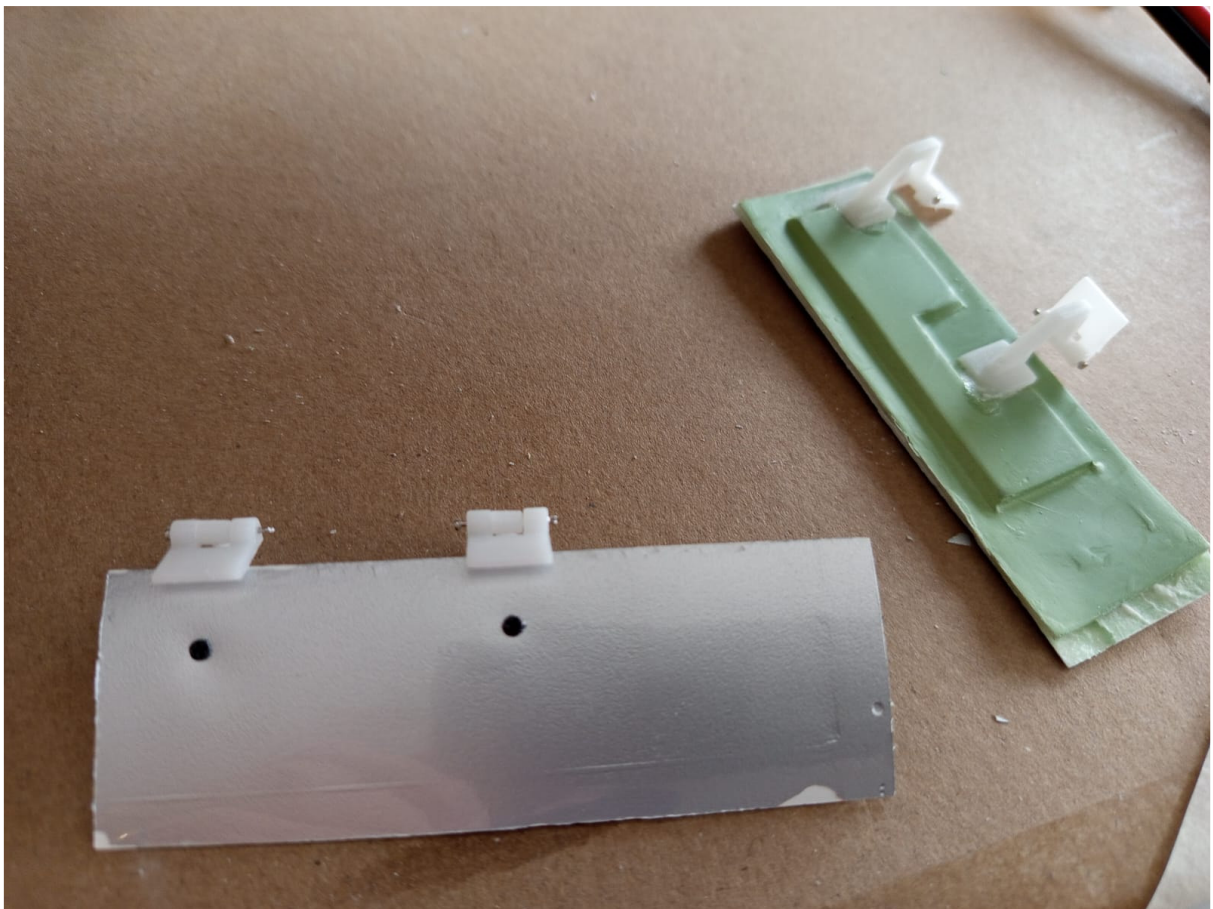
see below the position of small door horn







For the nose doors you will find the hinges in the hardware bag,also the wood servos support frame are included and must be glued in place ,see picture below.

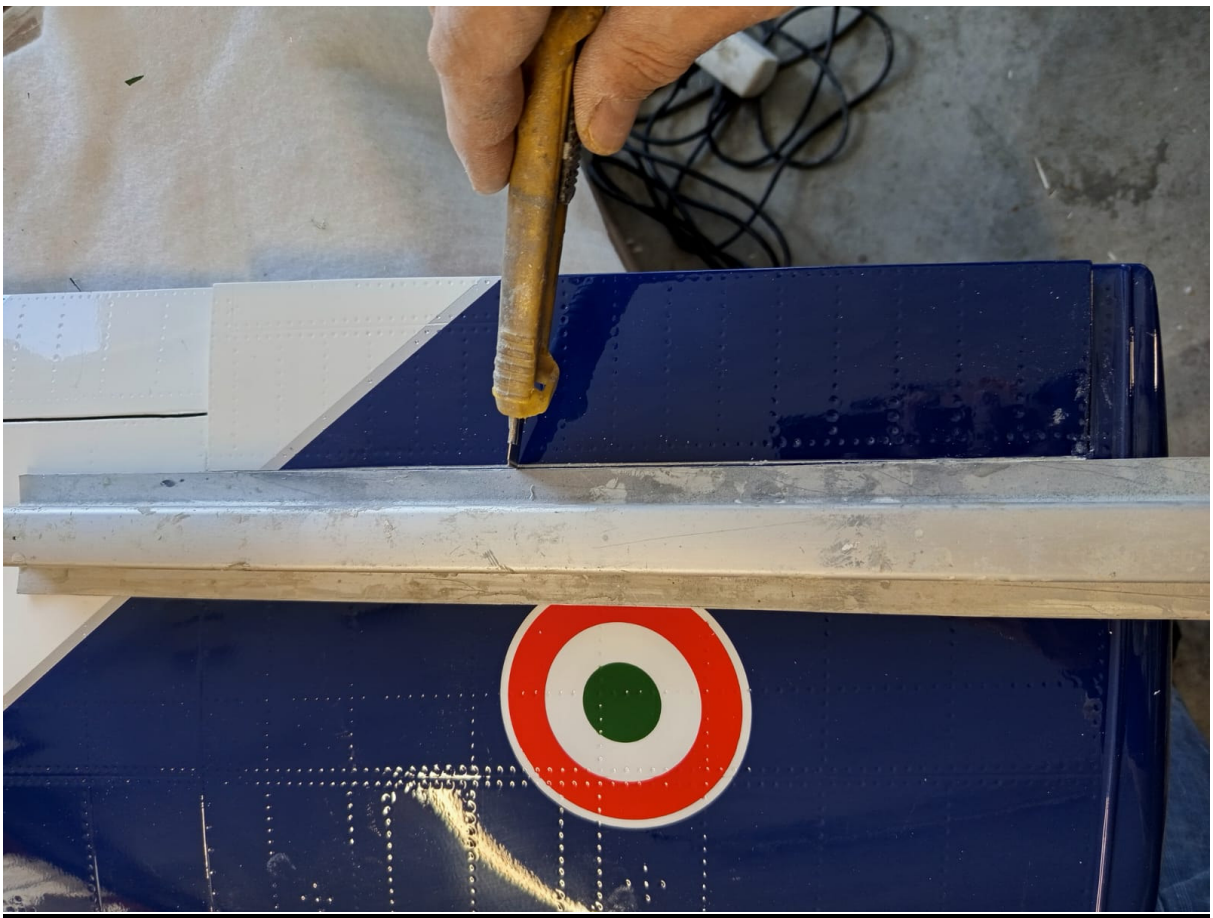




Big Gear door moved from servo

ATTENTION: FLAPS AND AILERON AND ELEVATOR USE KEVLAR ELASTIC HINGES , THEY CAN BE LITTLE BIT STIFF,

BEFORE USE IT , USING A CUTTER, TAKE OFF THE PAINT ALONG THE LINE SE PICTURE BELOW





ATTENTION: Because main gear door move up to 100 degree, you can sett the end limit just unscrew one of the two screw see below until to reach correct closing angle,Fix screw with Loctite

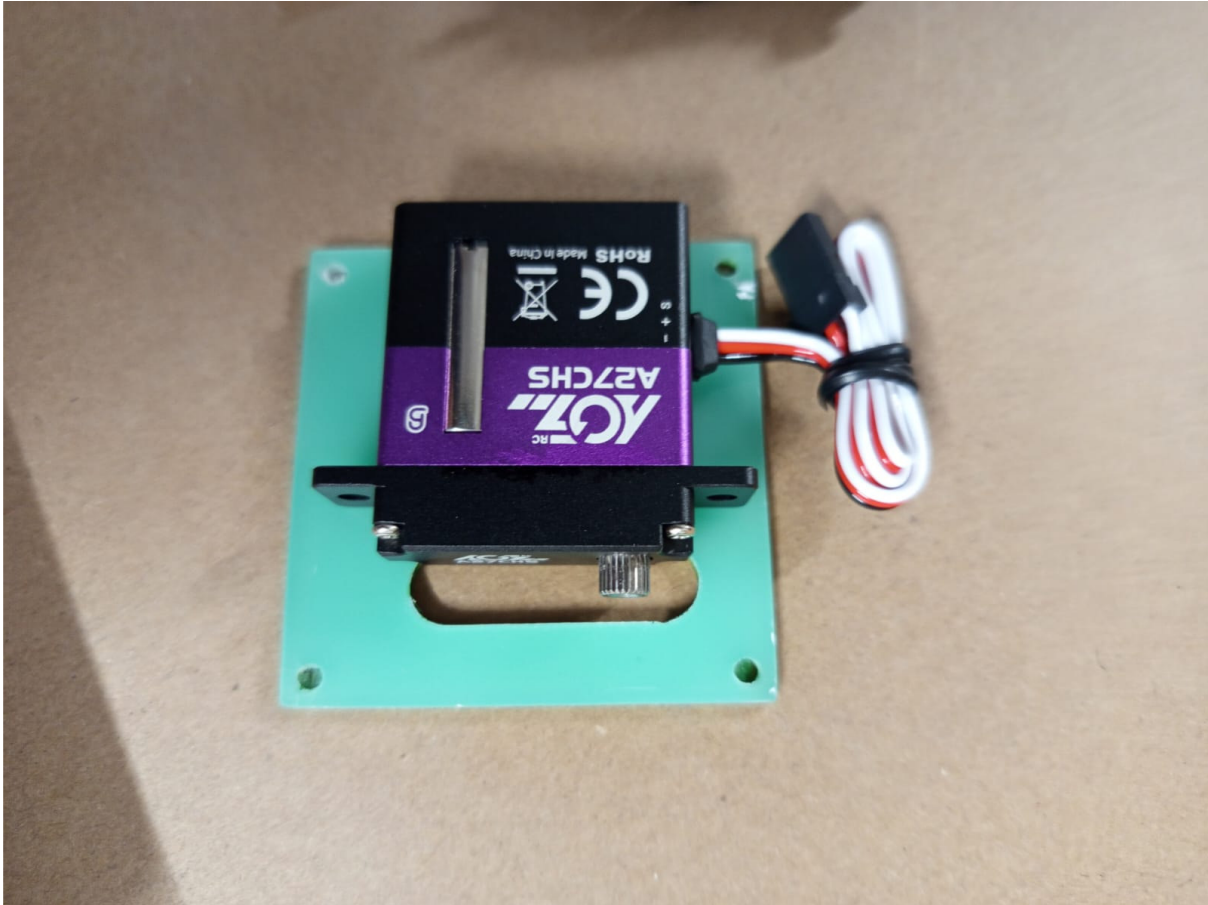


SERVO INSTALLATION AND TYPE

All the servo hole are predisposed from the factory. In the kit you will find L plastic supports and screws to install it. For the servos type we suggest to use:

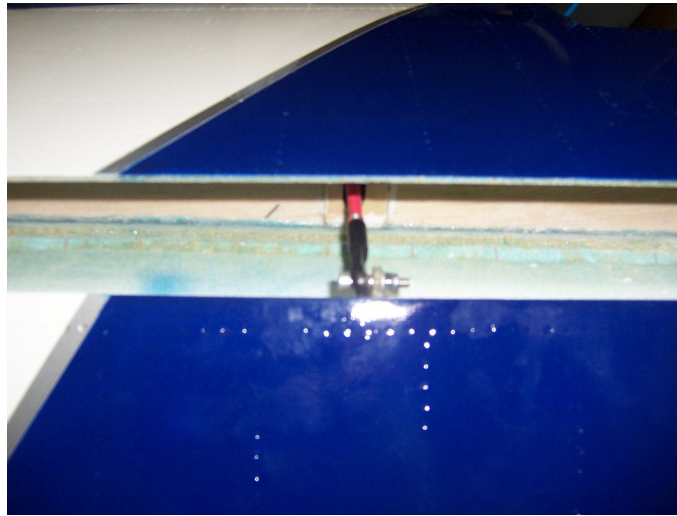
Aileron 2x 8 kg (standard dimensions 40x20 or medium)
Flap 2x15 kg /20 kg (standard dimensions 40x20)
Elevator 2x 8kg (medium servo similar Hitec 5245 mg)
Rudder 10/12 kg (medium servo)
For big doors on the wings (optionally) 2x15/20 kg
For small doors in the nose (optionally) 3x5 kg

Also slim size servos can be used see below

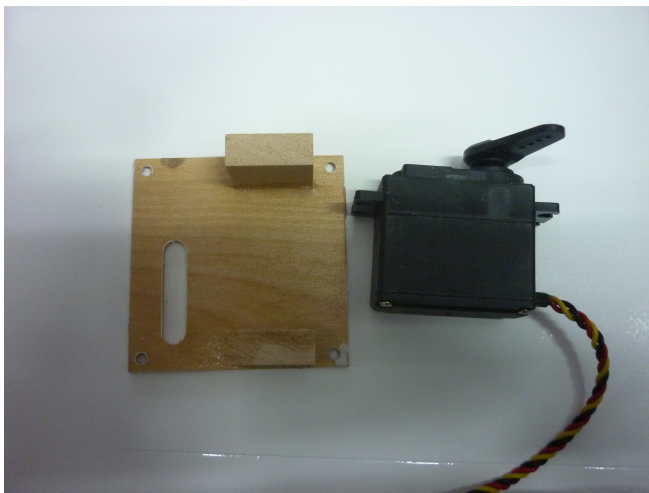


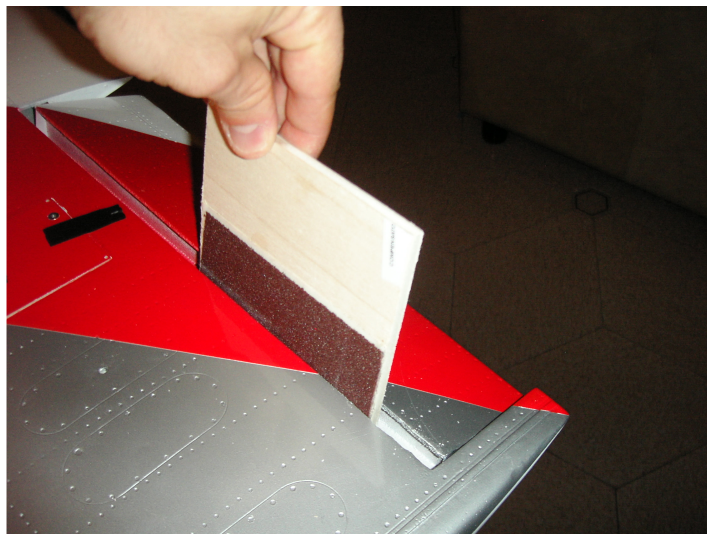
For the servos flap you can install it internal in the wings, and the linkage must be out from the trailing edge (Please see photo below)





If you don't want to use the L plastic included in the hardware bag, in alternative you can use a small hard wood block and screw the servo on it.



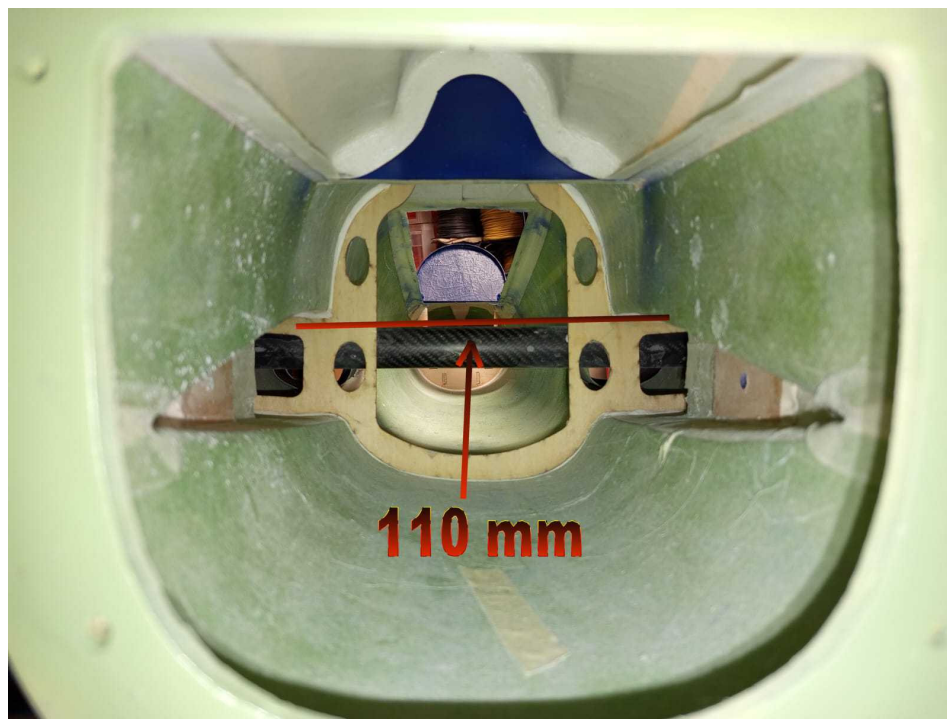


For the extreme aerobatic fly you need more movement for the mobile parts so you must to sand it,

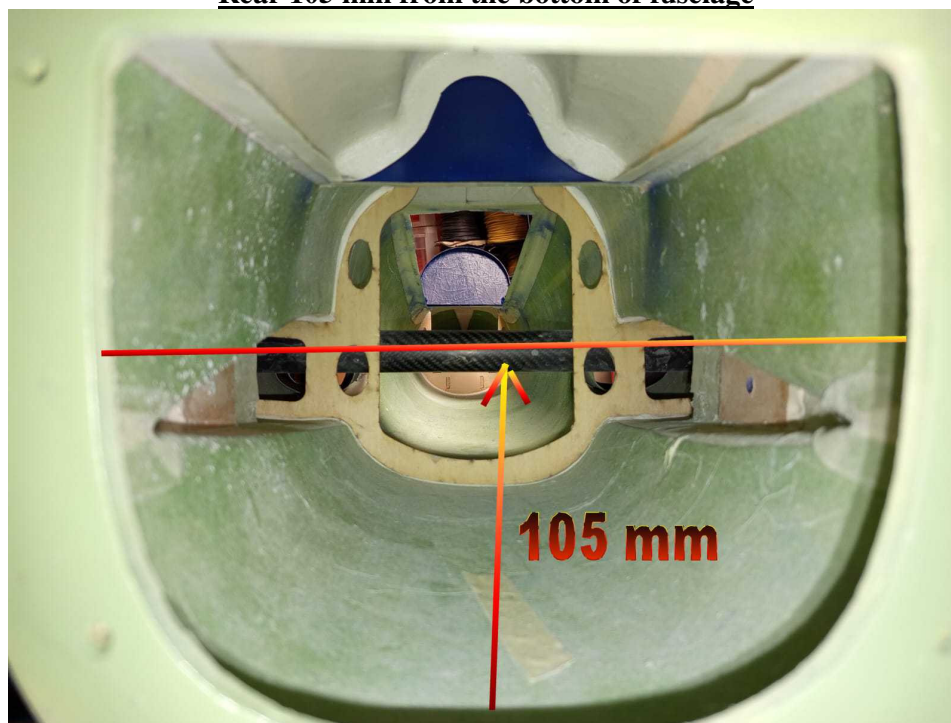
Turbine installation

Depending of the turbine used probably you must adjust the two wood rail supports, however they must be positioning like below

Front 110mm from the bottom of fuselage



Rear 105 mm from the bottom of fuselage



Fuel tank installation

We don't include fuel tank because each customer can choose to use Plastic, fiber or the fuel bag, try to fix fuel tank close to CG to not have too much variations during flight

Inox thrust pipe

Screw the inox pipe to the two turbine supports

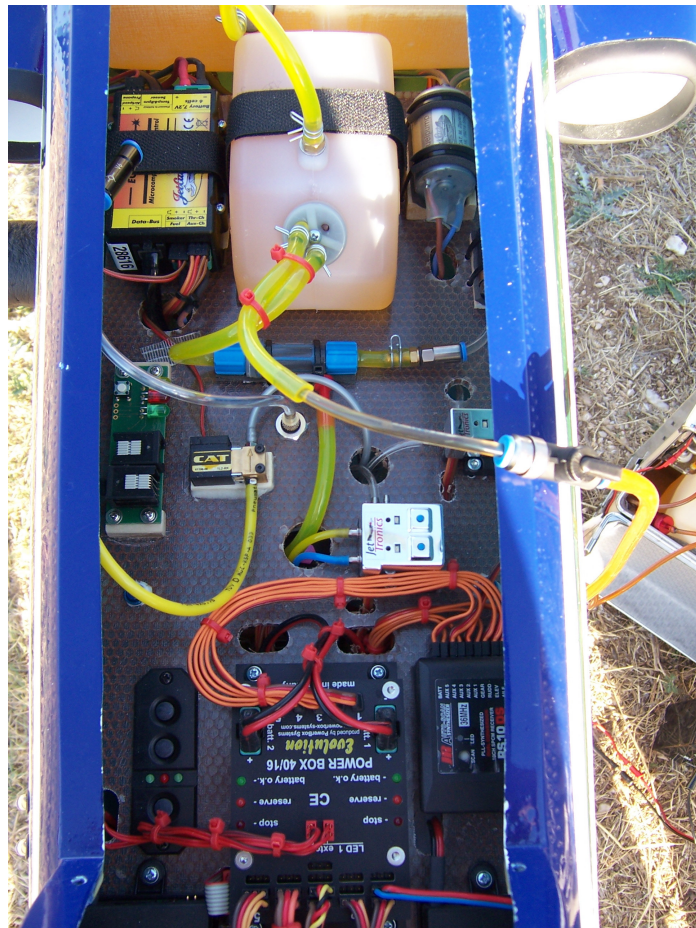


Place the turbine to max forward position





Typical servo linkage installation



Typical electronic and UAT installation in the support.

In order to don't install lead in the nose to achieve the correct CG we suggest to install all the heavy component(es. Battery) to max forward possible. However 300/400 lead grams are normal.

CG

The CG is located at 12 cm from the leading edge (please see photo below), you can set it according to your flying mode.

MOVEMENT

NORMAL FLIGHT:

AILERON: 20 MM UP 20 MM DOWN

FLAP: 30 MM TAKE OFF 80 MM LANDING

ELEVATOR: 30 MM UP 20 MM DOWN

RUDDER: 30 MM LEFT 30 MM RIGHT

MOVEMENT

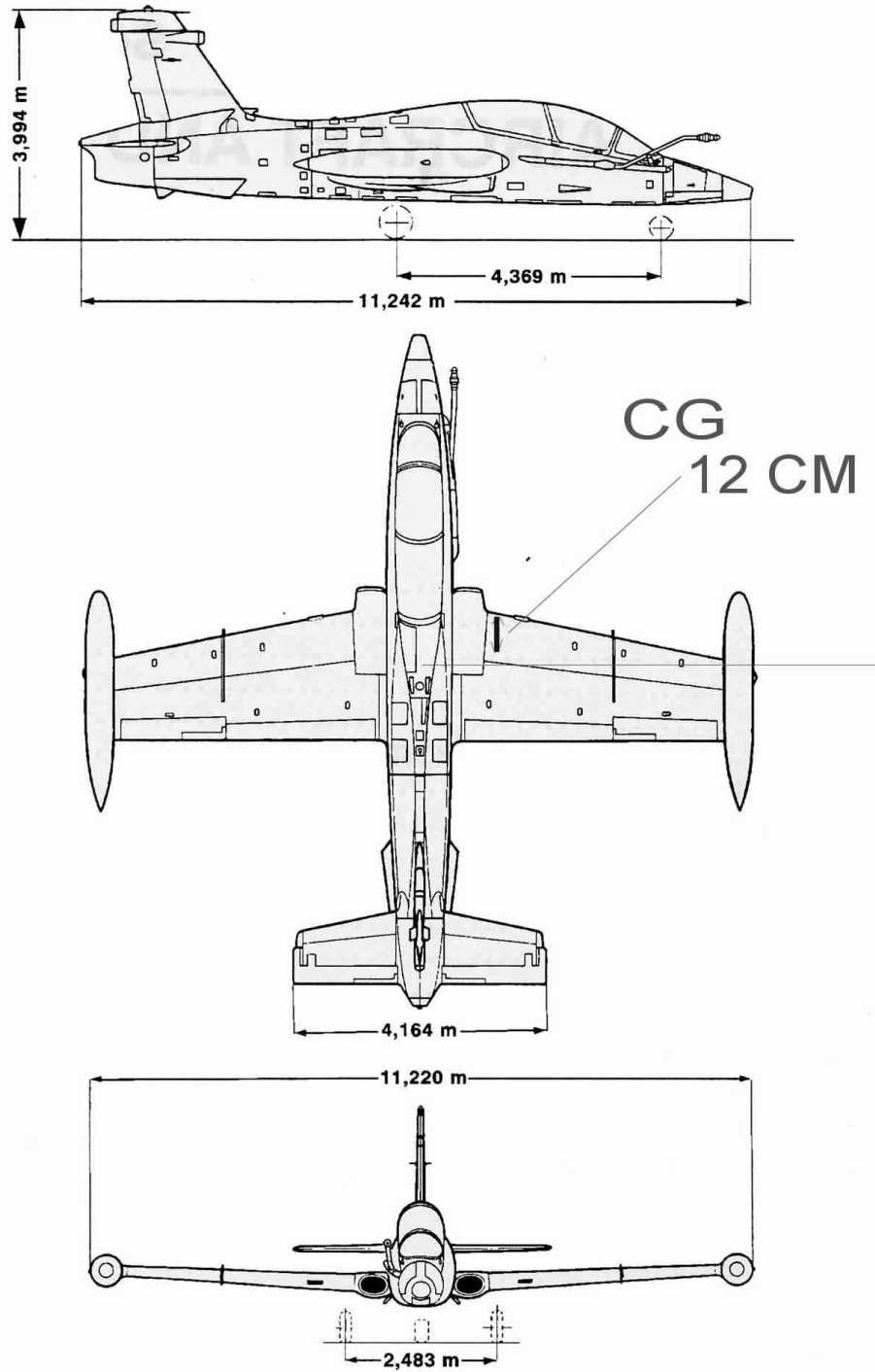
ACROBATIC FLIGHT:

AILERON: 30 MM UP 30 MM DOWN

FLAP: 30 MM TAKE OFF 80 MM LANDING

ELEVATOR: 35 MM UP 30 MM DOWN

RUDDER: 40 MM LEFT 40 MM RIGHT





Optional underwing tank, the pylons must be glued to the wings and remaining full attached to them. Tanks slide to the pylons and can be screw to them

Accessories



Optional Cockpit kit , Attention, fuselage must be little bit adjusted to accomodate the cockpit.

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