

# Finwing Traveler T1160 V2

## USER MANUAL



**FINWING TECHNOLOGY** [WWW.FINWINGHOBBY.COM](http://WWW.FINWINGHOBBY.COM)  
**PATENT OWNER**



## Please read through the manual carefully before installation and flying

This manual aims to help direct the user on how to build the Traveler RC plane.

Please visit the [finwing.cn/finwinghobby.com](http://finwing.cn/finwinghobby.com) official website for more introductions.

### Warning:

1. This model airplane is not a toy, not recommended for children under 14 years old,
2. Be cautious and prepared while flying this plane as a range of issues could lead to a crash including the environment/weather, speed, pilot error, improper building/testing, interference or other component failures.
3. Flying field: Choose an adequate flying space at least 100 meters long/wide and in an unpopulated and non-built up area for safe flying. This includes avoiding flying over cities or other populated areas.
4. Please don't fly this model airplane in bad weather including rainy and/or windy environments.
5. Remember to unplug your flight/video battery when not in use to avoid any interference to others who might be on similar channels.
6. Please remember switch on the transmitter first before connecting the battery, and disconnect the battery first before switching off your transmitter.
7. Keep away from the propeller when the Airplane is powered as it can be dangerous and could lead to injury. Keep the powered plane away from children at all times to avoid any accidents or injury.



# Finwing Travelerplane Specifications

Wing Span	1160MM(46")
Lenght	860MM(33. 8")
Wing Area	20.0 sq dm (310.0 sq in) <Main-Wing Area>
Material/Color	EPP (Black or White) EPO White Black EPP/White EPP and EPO the wegihht is variable
FPV Weight	Approximately 1.0-1.2kg(2.2Ib-2.6Ib) 3S 4000mah-5200mah

User Feedbacks she is capable of flying with upto 1.3kg, flight time around 30-40 minutes.

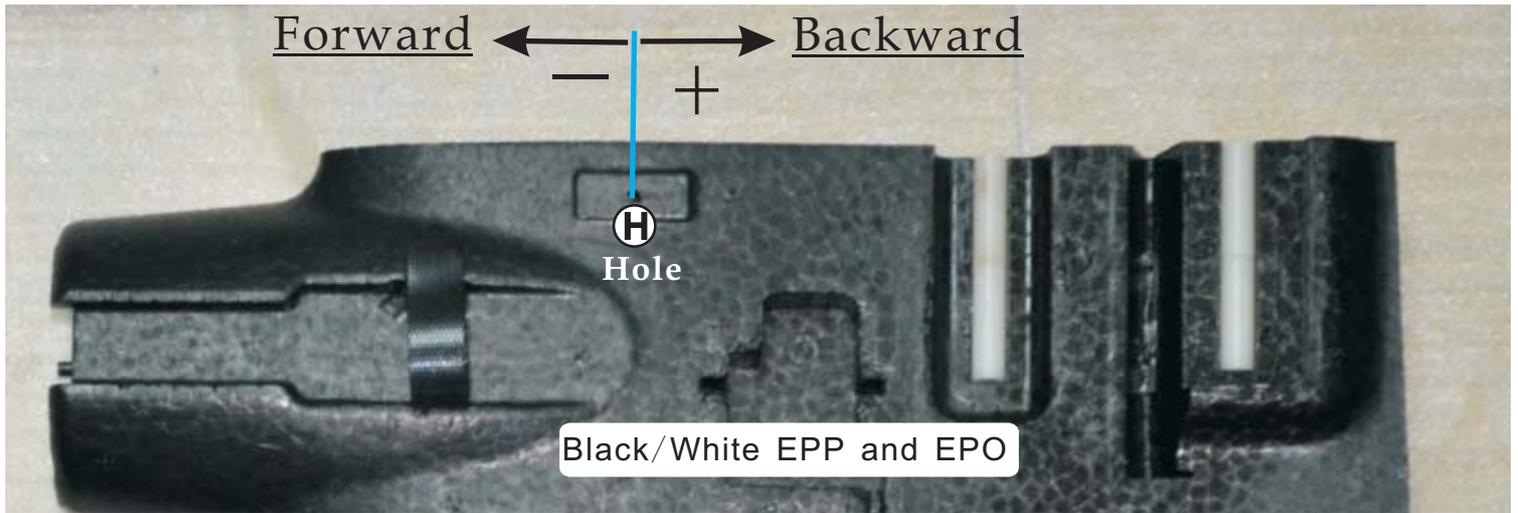
## Power System <Kits not including Power parts>

Motor	2PCS Brushless Motor (CW and CCW) Max. 170W Per motor
ESC	2PCS ESC 15A BEC 2A
Servo	4 PCS 9G Servo
Propeller	CW /CCW 6045
Battery	Recommend 3S 4000-5200mah

## Traveller Suitcase, Aluminium Frame reinforced

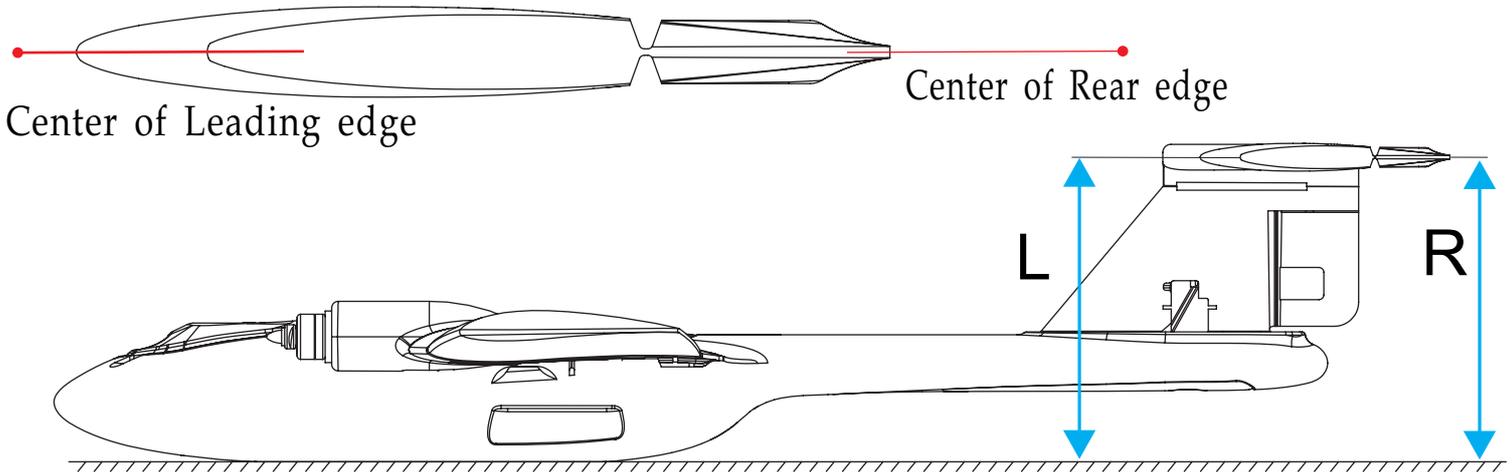


# CG. Setting



Neutralize Elevator control surface first

Plane levelly at a platform measure the stabilizer before ready to fly  
It's inaccurate measurement if building not completely done!



**L=R** | CG. Setting at Hole "H"

**R > L about 1-2MM** | CG. Setting at H Forward 2-4MM

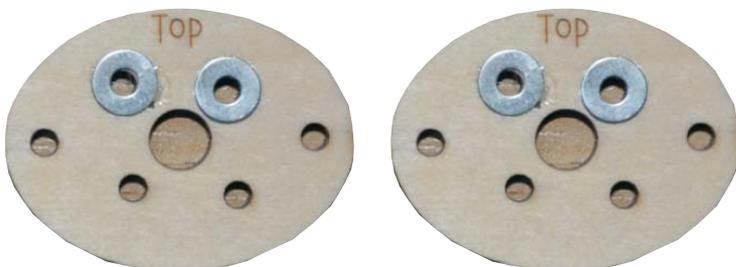
**If R < L about 1-2MM**

Please shim at the rear top plywood of the Vertical wing adjust it to R=L

### How to find out the perfect CG ?

Generally most of us measure CG, by fingers and inevitable differently by different people  
 For example if you noticed plane a little nose up flying, landing then moving CG. A little forward  
 but if plane likely to be nose down, landing then moving CG. A little backward. (2.0-4.0mm)

Recommended Add washers



0.3MM Thin washers not thicker washers  
 we also have flown good without washers  
 but seems added washer is better most of the time

0.3MM Washers included for all V2 package  
 you must have to install washers if your think  
 your plane tendency to nose up climbing.  
 After further adjust the CG. properly.

Please skip this page if measurement is not  $R < L$

If  $R < L$  about 1-2MM

Please shim at the rear top plywood adjust it to  $R=L$

Generally only happened by few earlier original fuselage

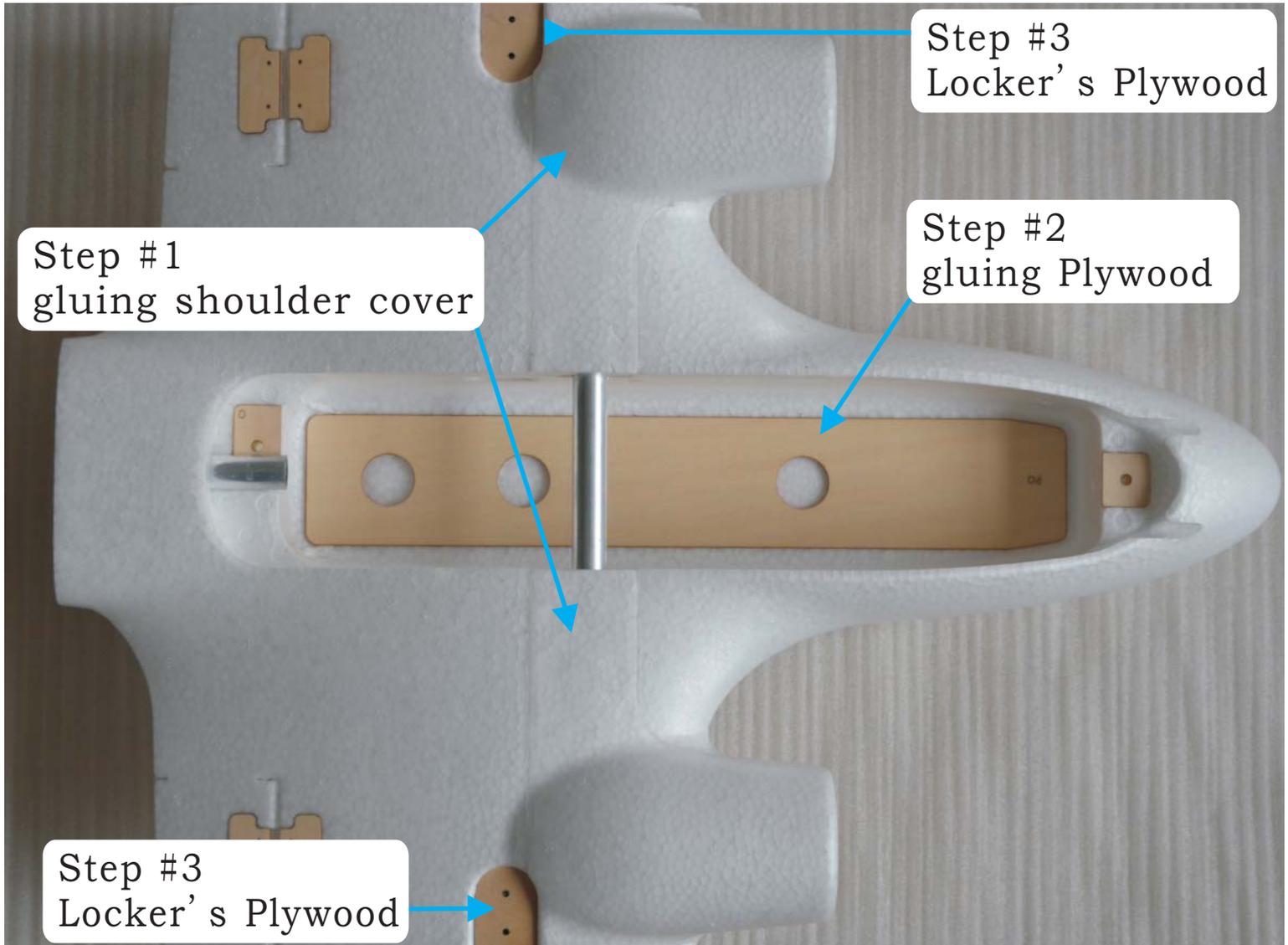
V2 fuselage won't happen (this was caused by fuselage aluminium tube)

Find some thing More or less 0.3MM adhere to this place



# Fuselage (Gluing Covers and Plywood)

Please build according to the following steps



Step #1  
gluing shoulder cover

Step #3  
Locker's Plywood

Step #2  
gluing Plywood

Step #3  
Locker's Plywood

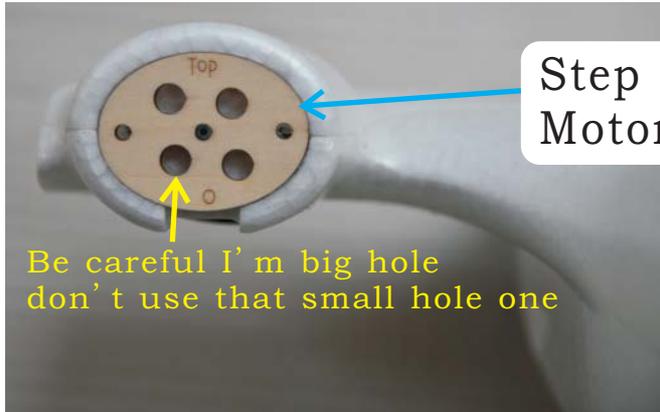


Plywood



Step #4  
Gluing fuselage tail cover

**Important Note: be sure let glue dry at least 12 hours before installing other parts**



Step #5 Gluing  
Motor Mount plywood

Be careful I'm big hole  
don't use that small hole one

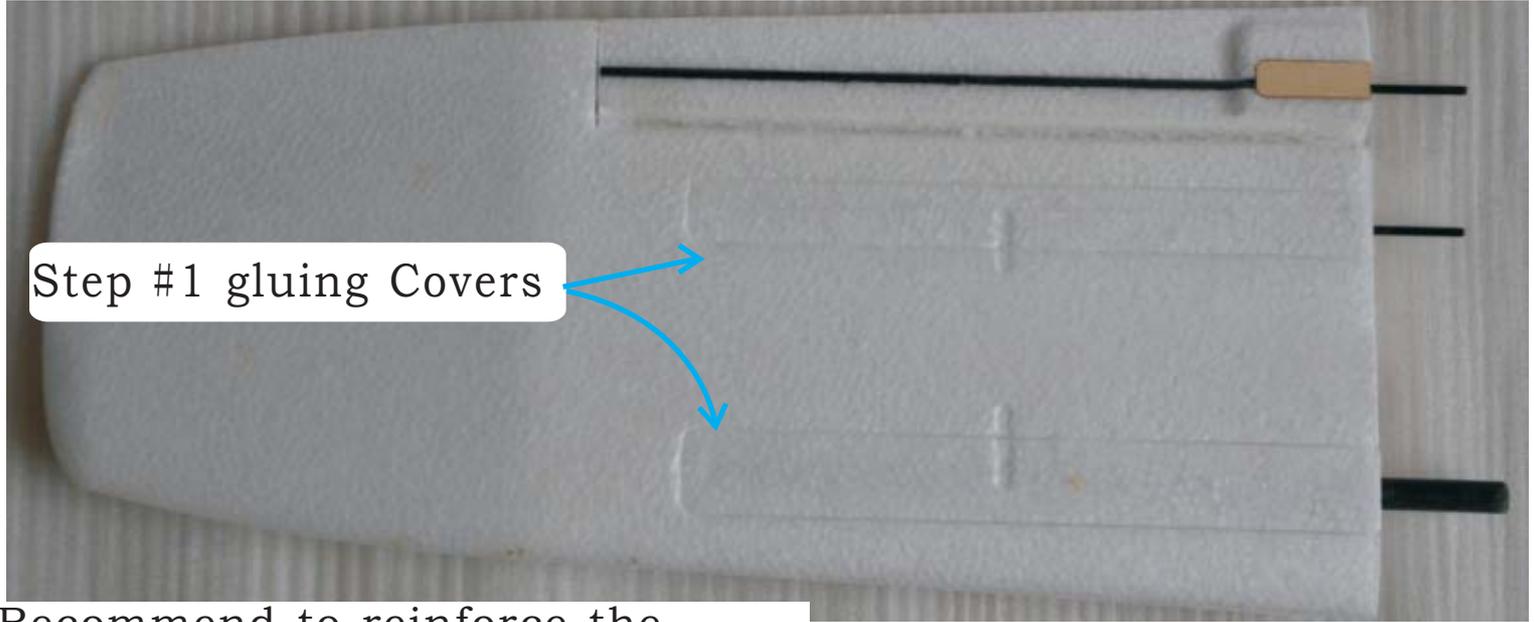


Be careful I'm big hole  
don't use that small hole one

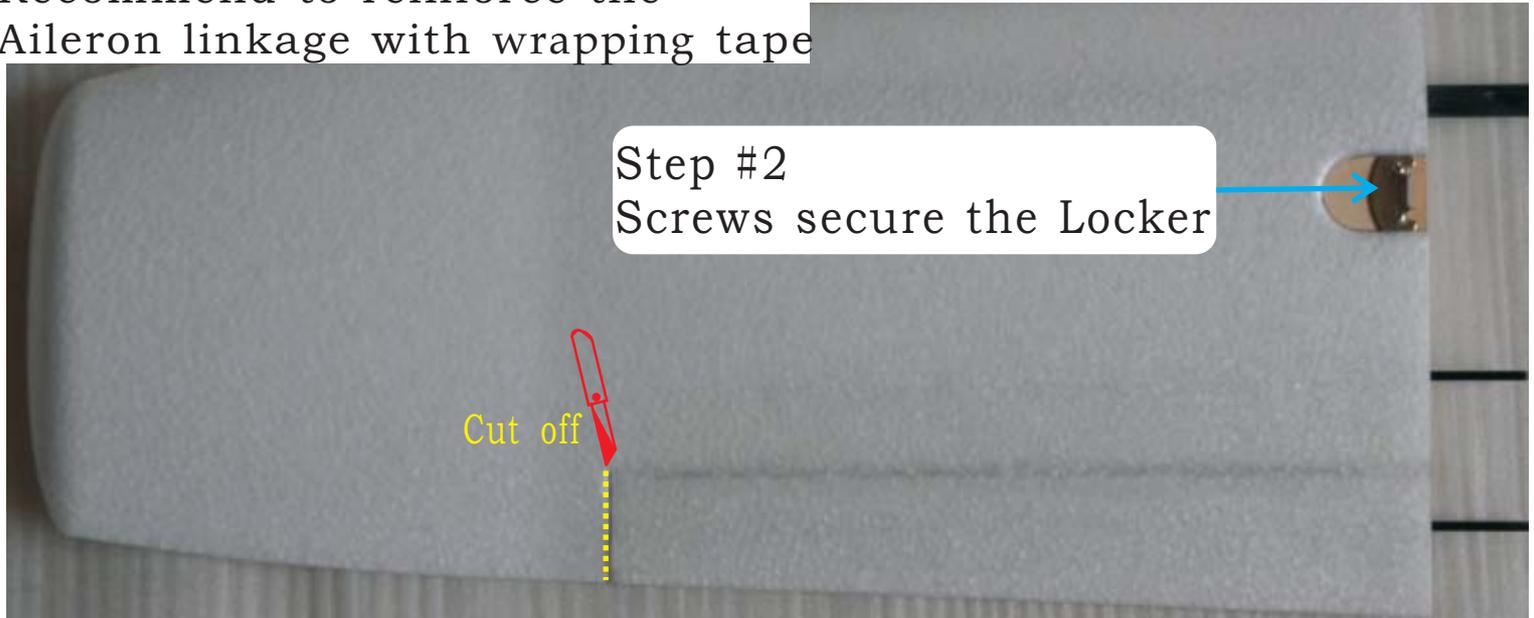
# Wings (Left/Right wing is the same)

Please build according to the following steps

Reinforcement carbon tubes has already been pre-glued



Recommend to reinforce the Aileron linkage with wrapping tape



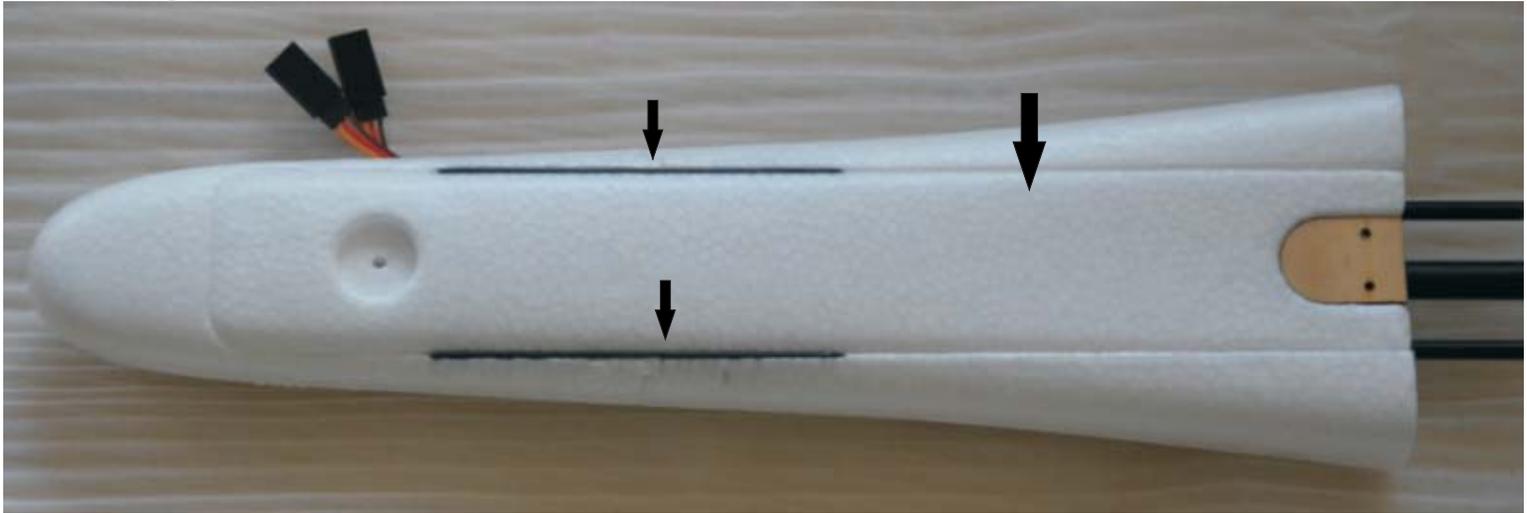
Be sure let glue dry at least 12 hours before installing other parts

## #V2 Horizontal wing



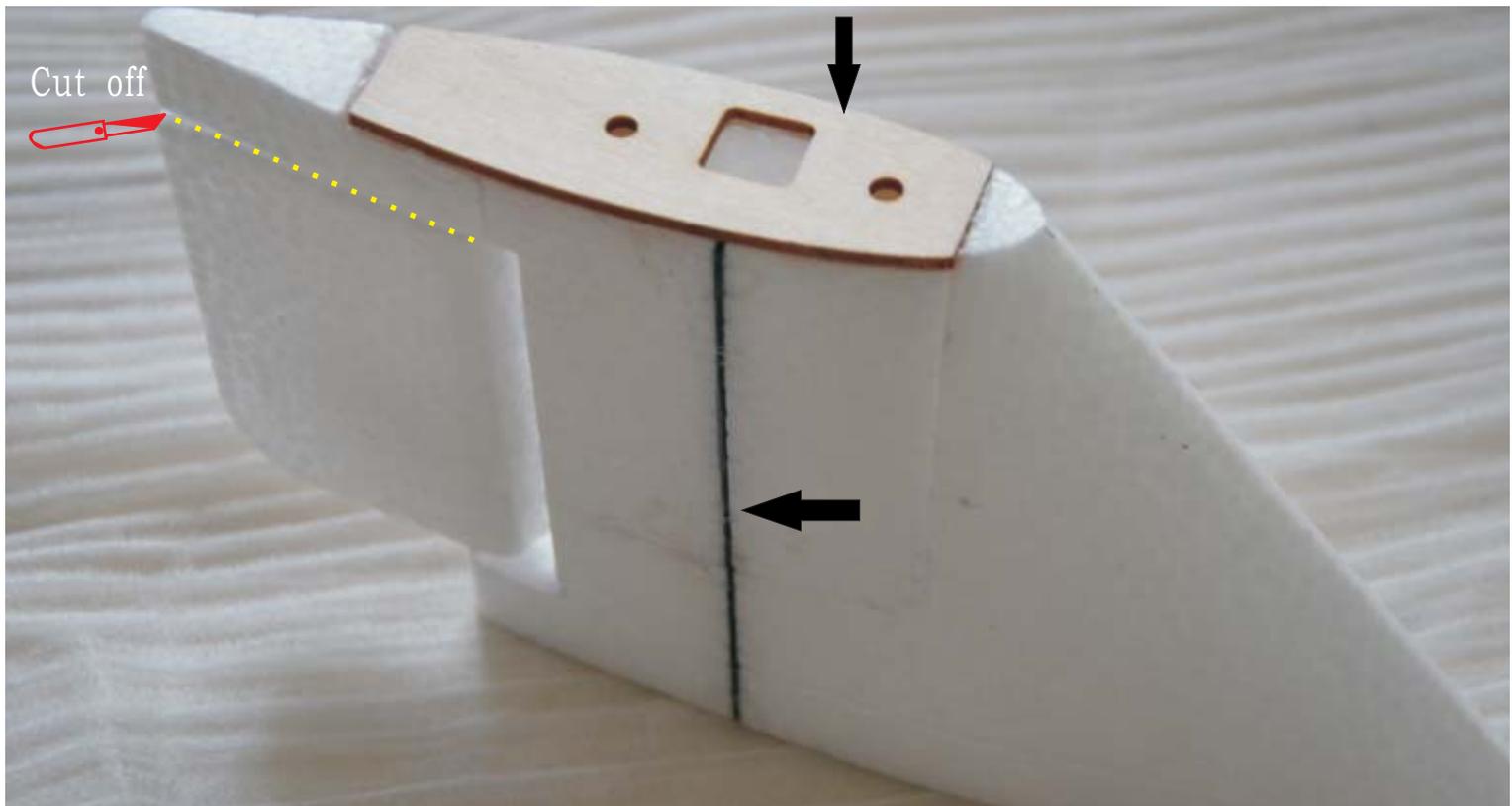
## #Tail-Boom

Gluing Cover and Carbon Strip



## #Vertical wing

Gluing plywood and Carbon Strip

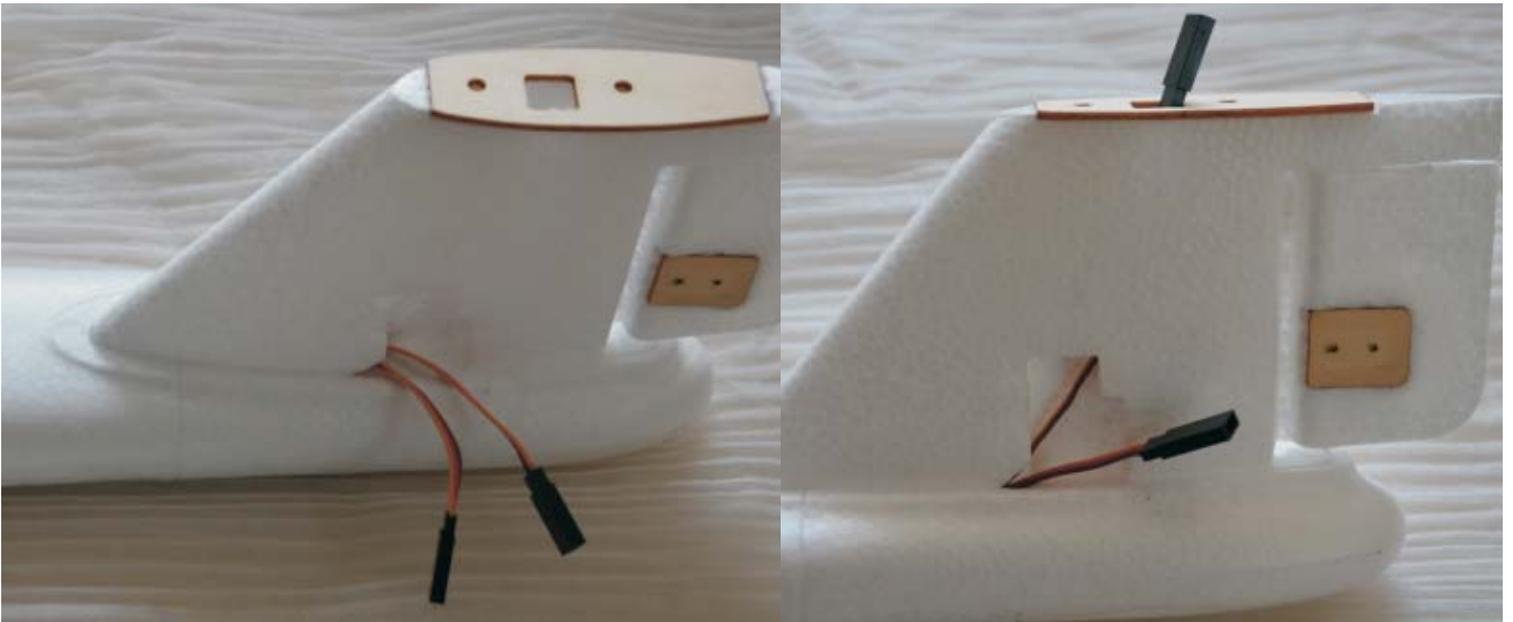
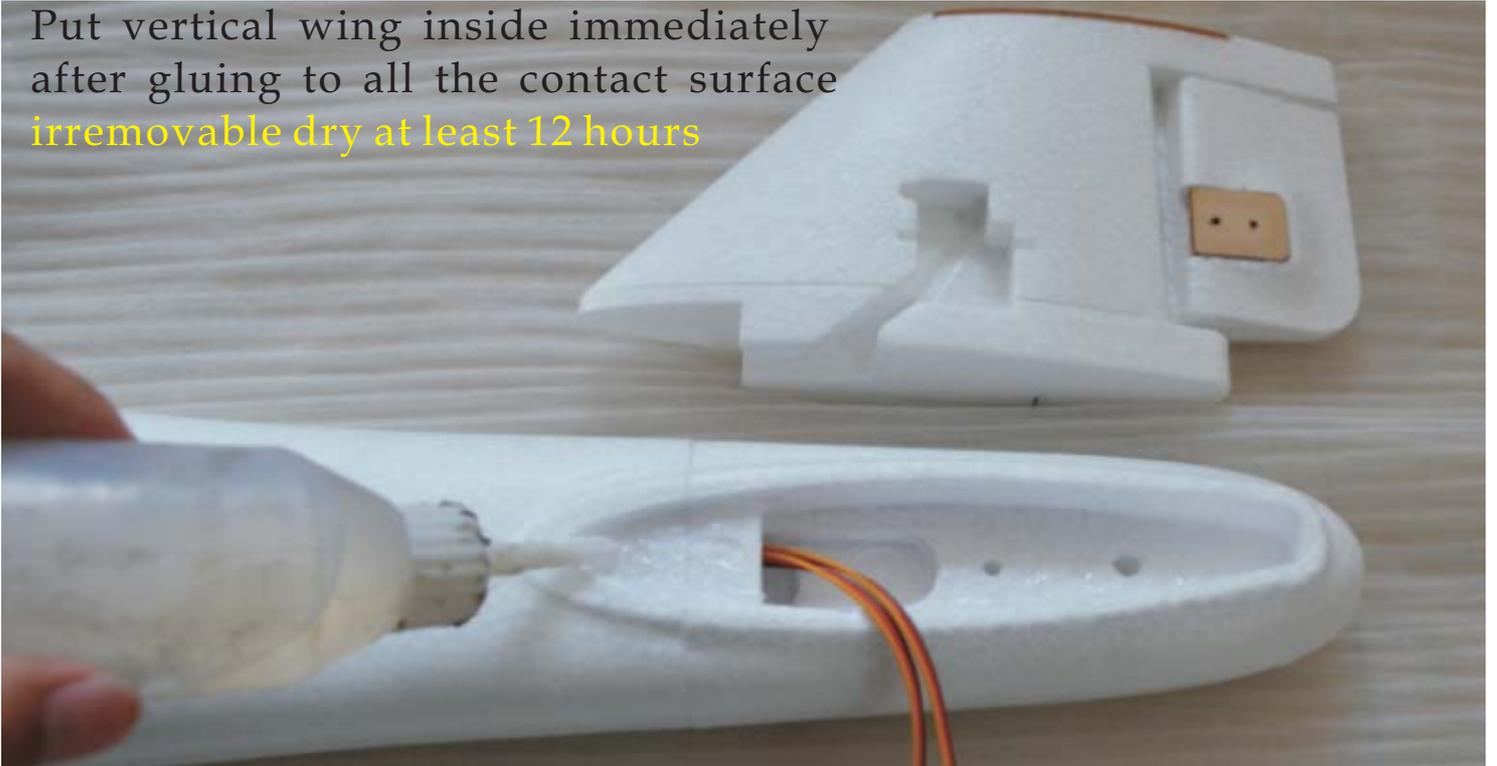


Now please let glue dry about 8 hours  
before continuing the next step

## #Glue vertical wing to the tail-boom

Put vertical wing inside immediately after gluing to all the contact surface

irremovable dry at least 12 hours

**Warning & Reminder:**

Please must have to glue vertical wing to the tail firmly and irremovable dry at least 12 hours. this is the only way to secure stabilizers, there is a horizontal mark line on the vertical wing ,keep it parallel to the tail surface.

it's absolutely dangerous(wrong) decision if you want to make the vertical stablizer detachable or removable in future by hot glue, tape, no mattery whatever way you think it's solid.. even if stabilizer not drop but 100% will loose during flight, 100% sure a loosing stabilizer is a unstable "stabilizer and cause any weird accident, out of control, etc.

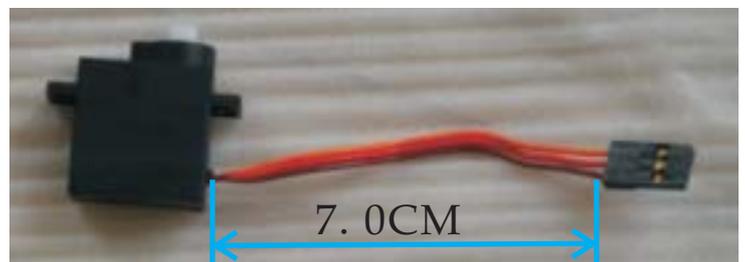
A well glued vertical stabilizer won't loose or drop no matter what kind of impact, stabilizer is still part of the whole tail even if fuselage, mainwing crashed to hundrends of pieces



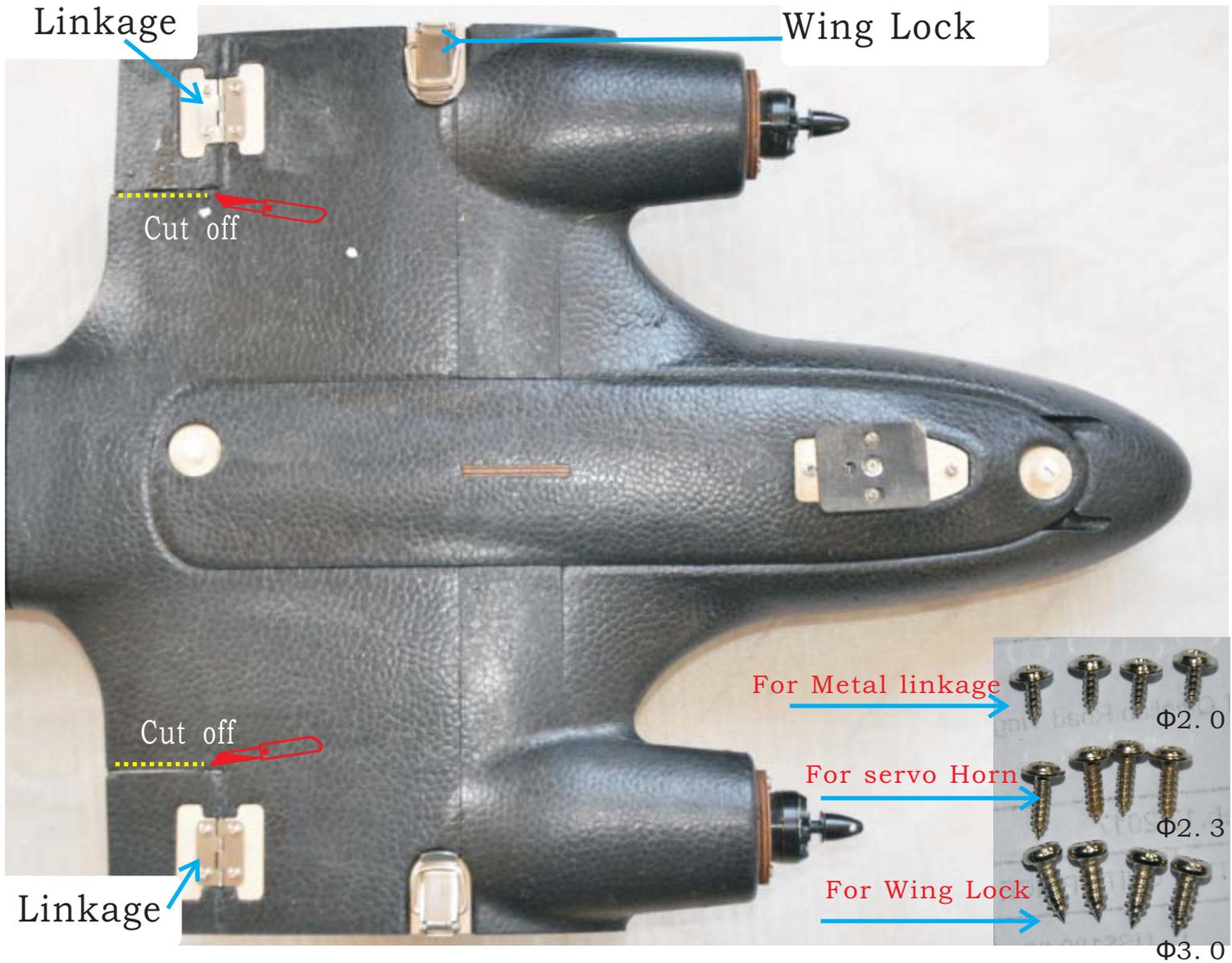
FYI: during my later testing, I removed the rudder servo  
basically can't tell any difference without rudder  
Still flying very good without rudder



Use the short wire servos for rudder and elevator if you have Finwing Stock V2 ARF Combo



# Fuselage & Tail (EPP/EPO)



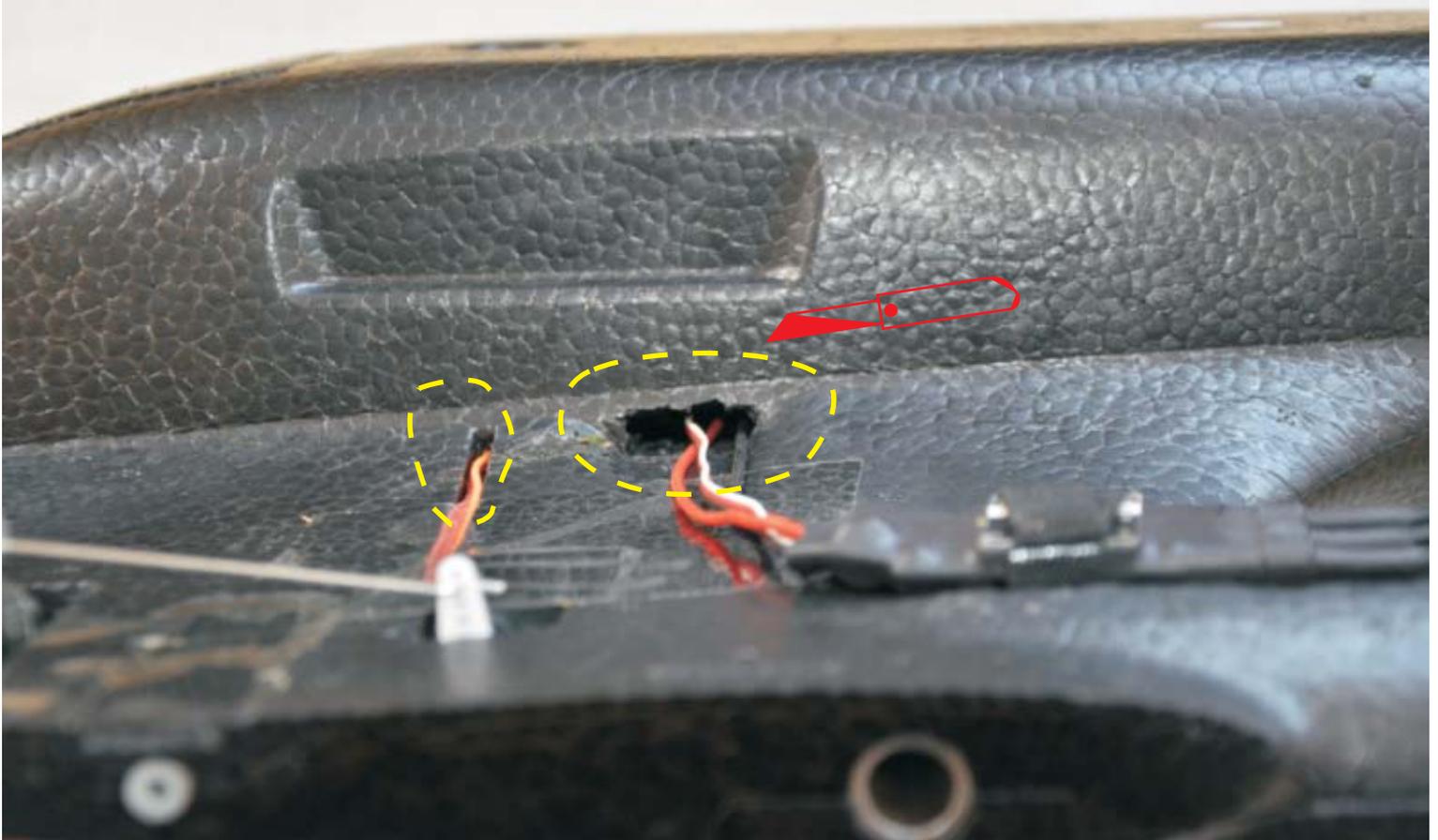
Note: Black EPP/White EPP and White EPO is the same



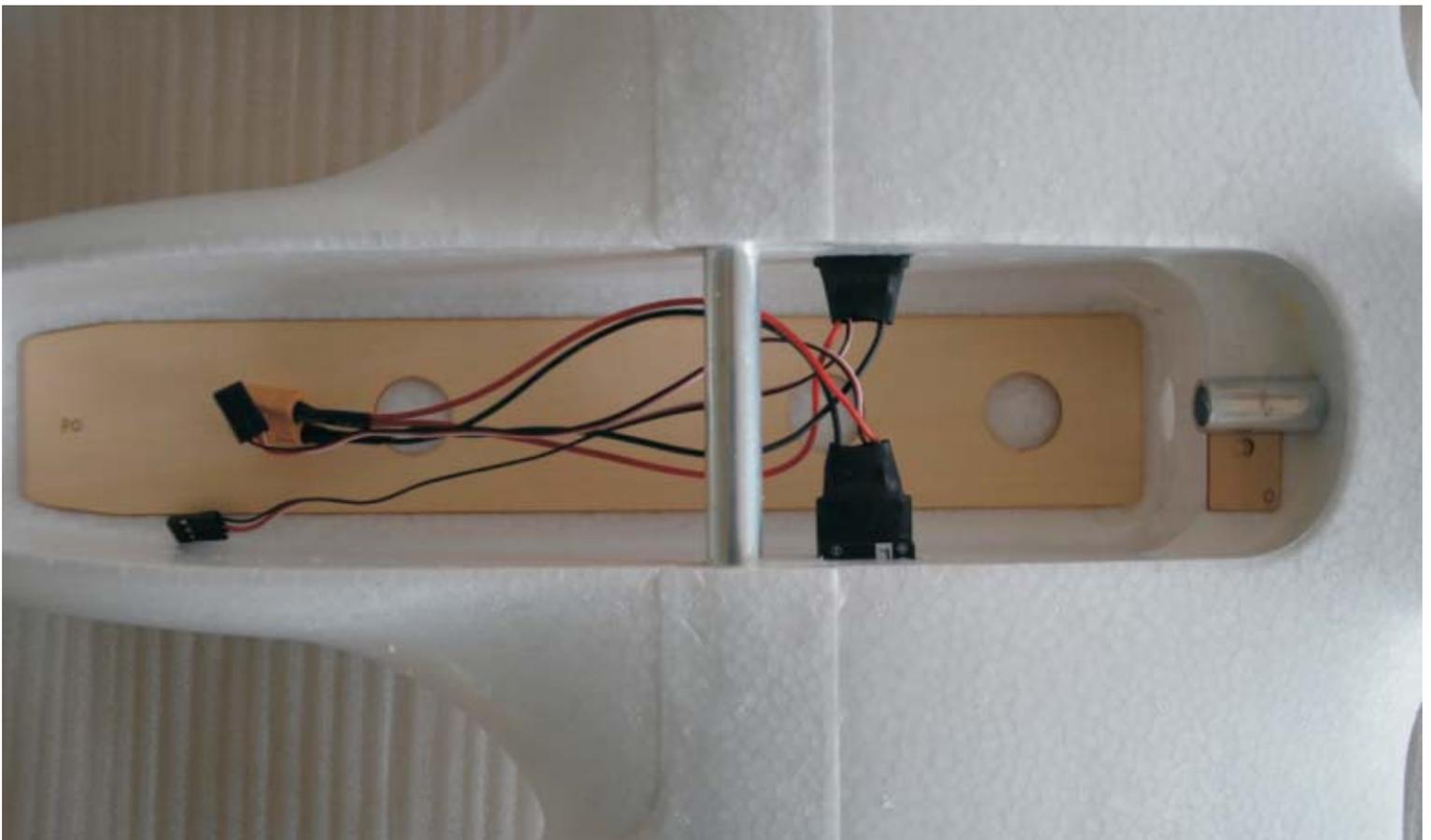
# Fuselage (EPP/EPO)

Note: Black EPP/White EPP and White EPO is the same

Use hobby knife cut a hole let ESC and Servo wire pass through

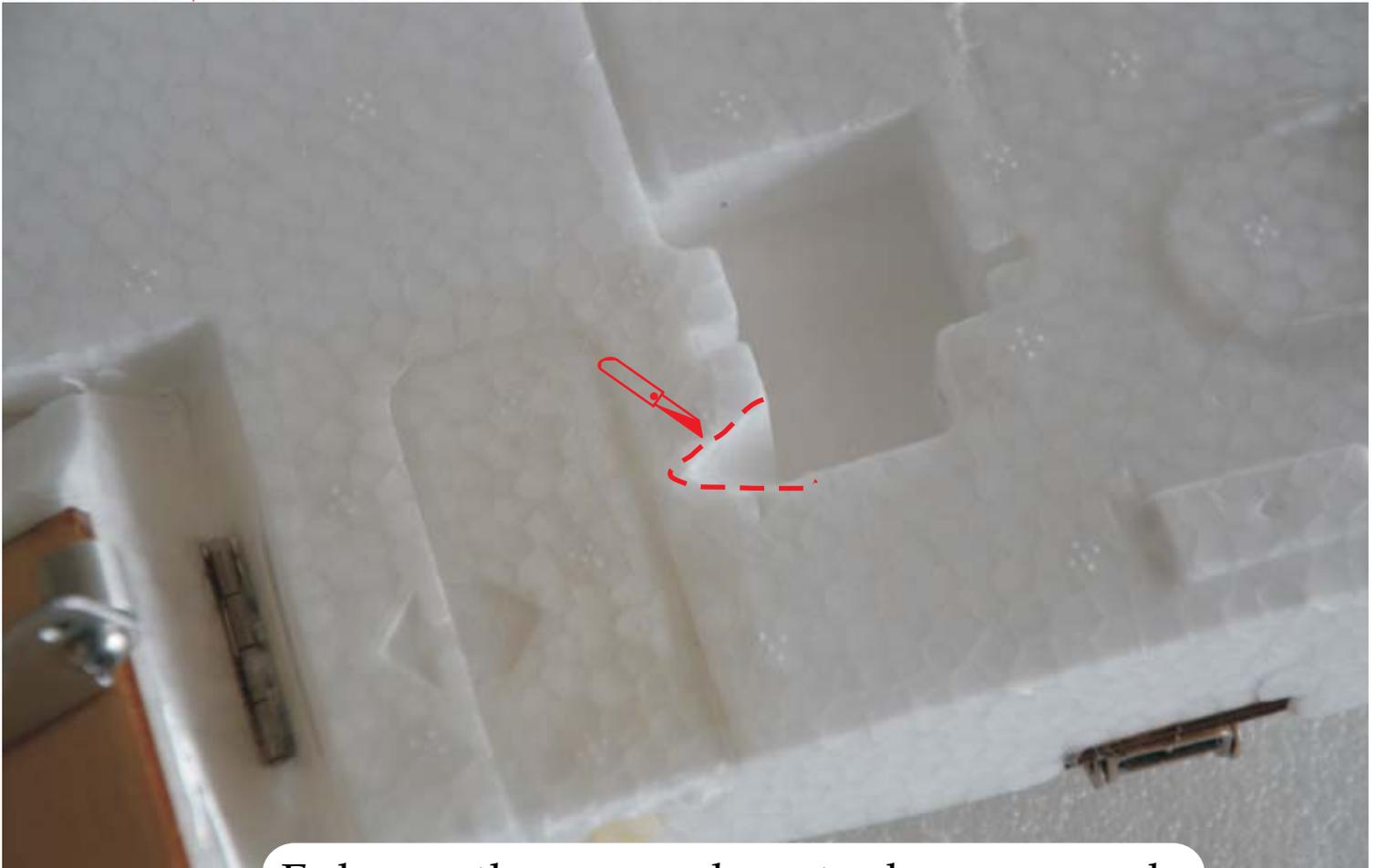


ESC pass through the hole like this

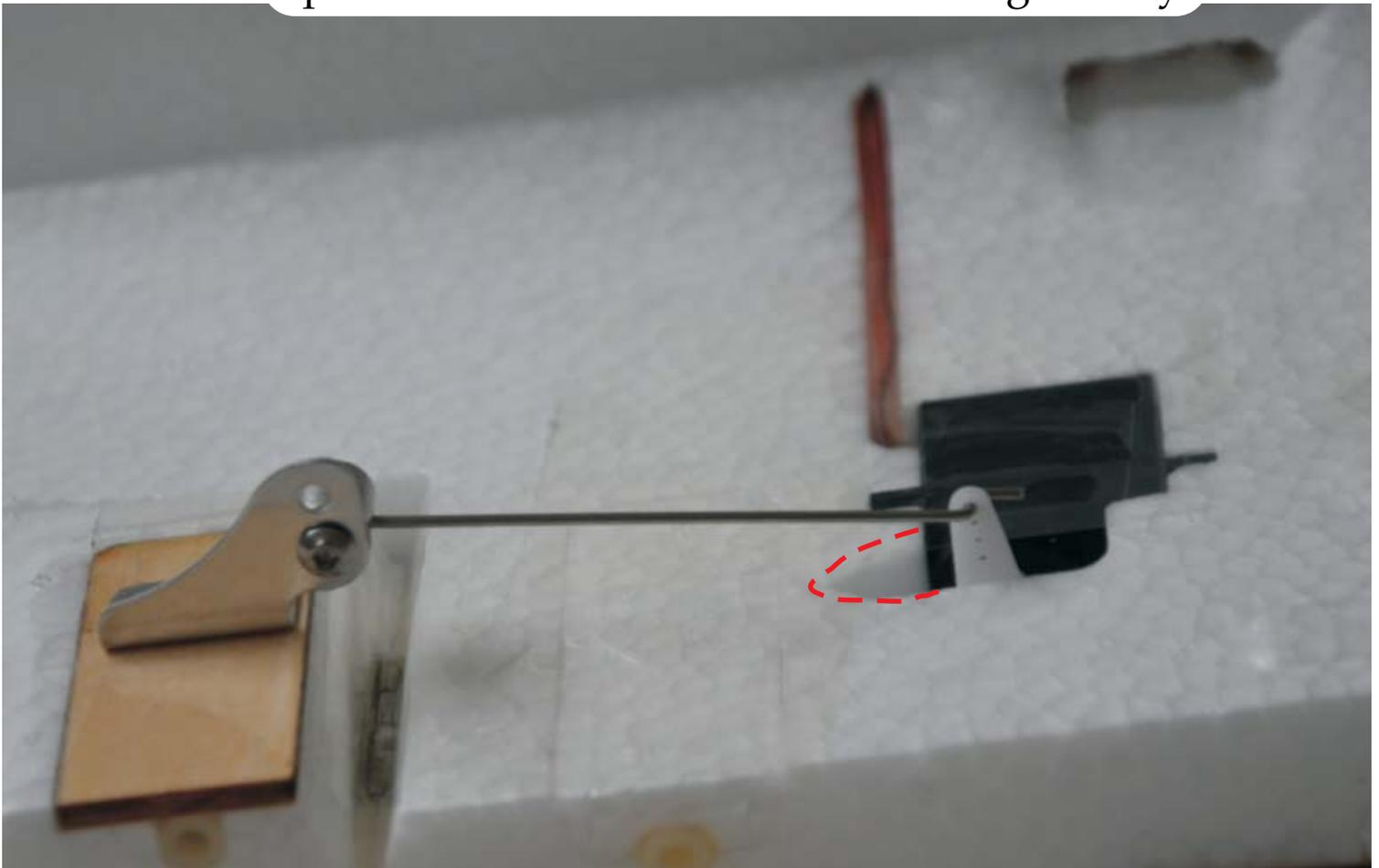


# Install servos (Fuselage/Main-Wing)

Black EPP/White EPP and White EPO is the same

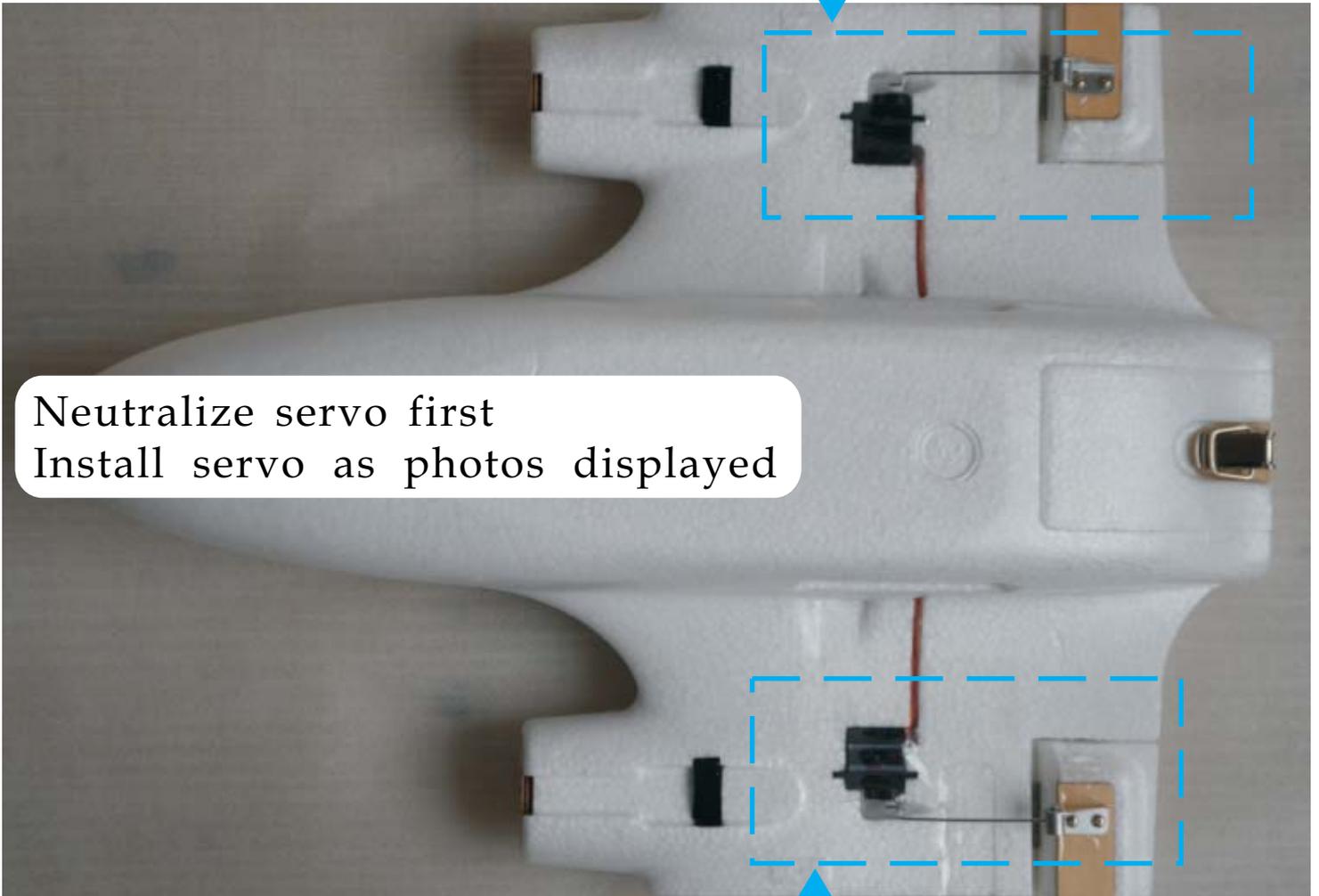
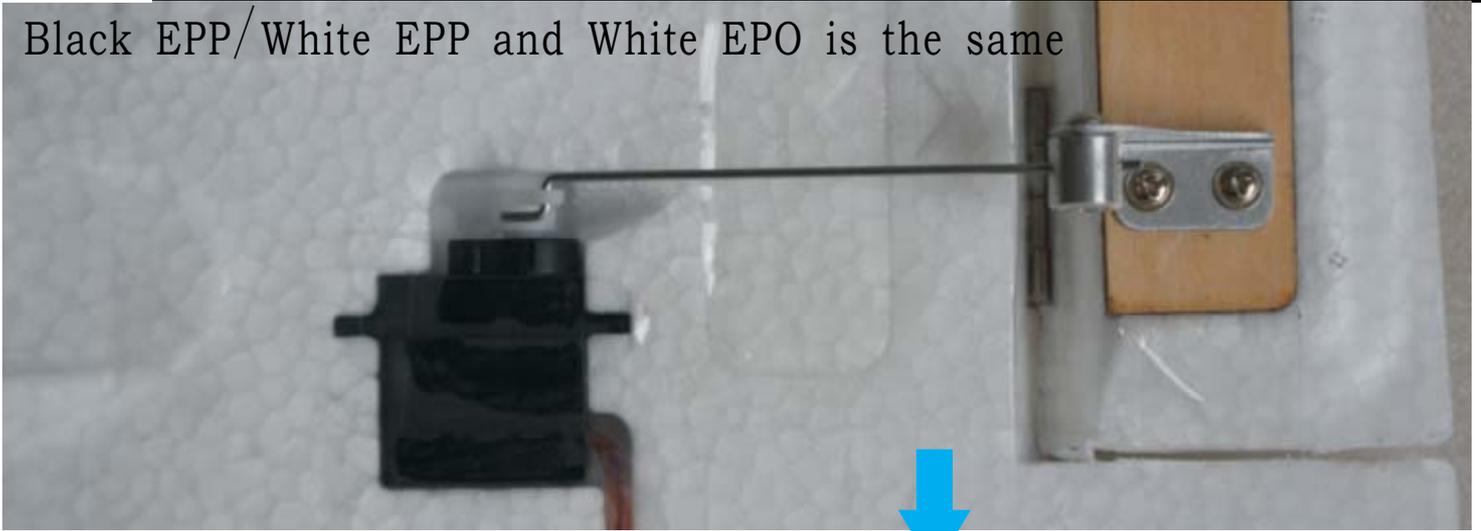


Enlarge the servo bay to have enough space for the servo arm moving freely



# Install servos (Main-Wing)

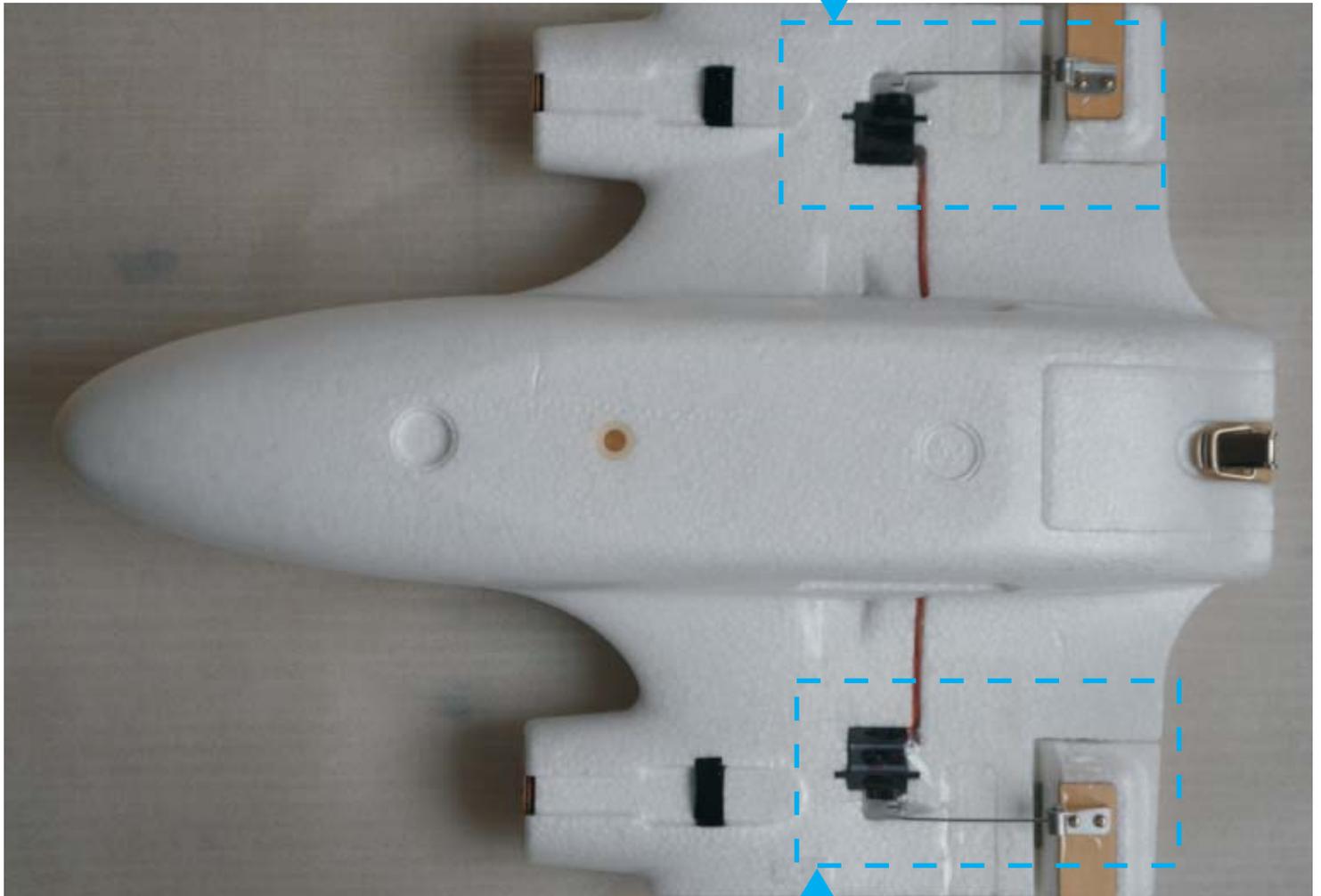
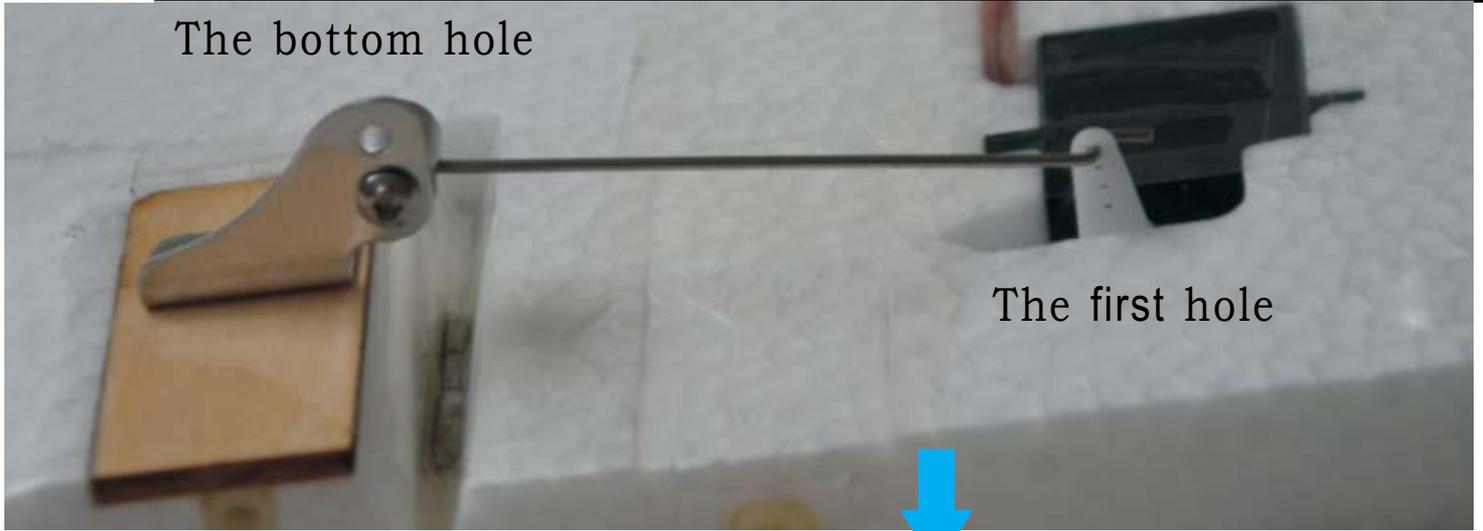
Black EPP/White EPP and White EPO is the same



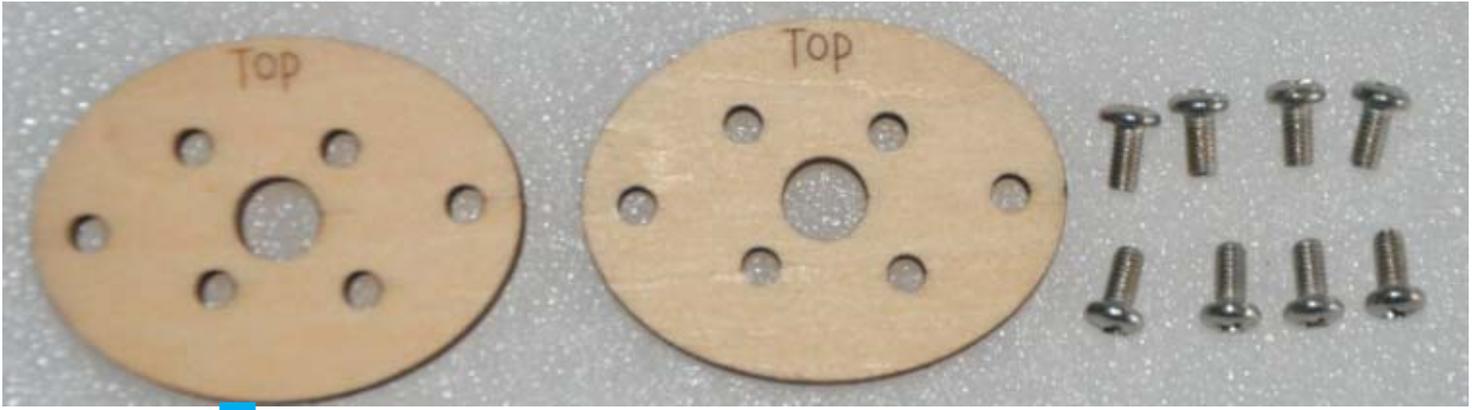
Neutralize servo first  
Install servo as photos displayed



# Install servos (Main-Wing)



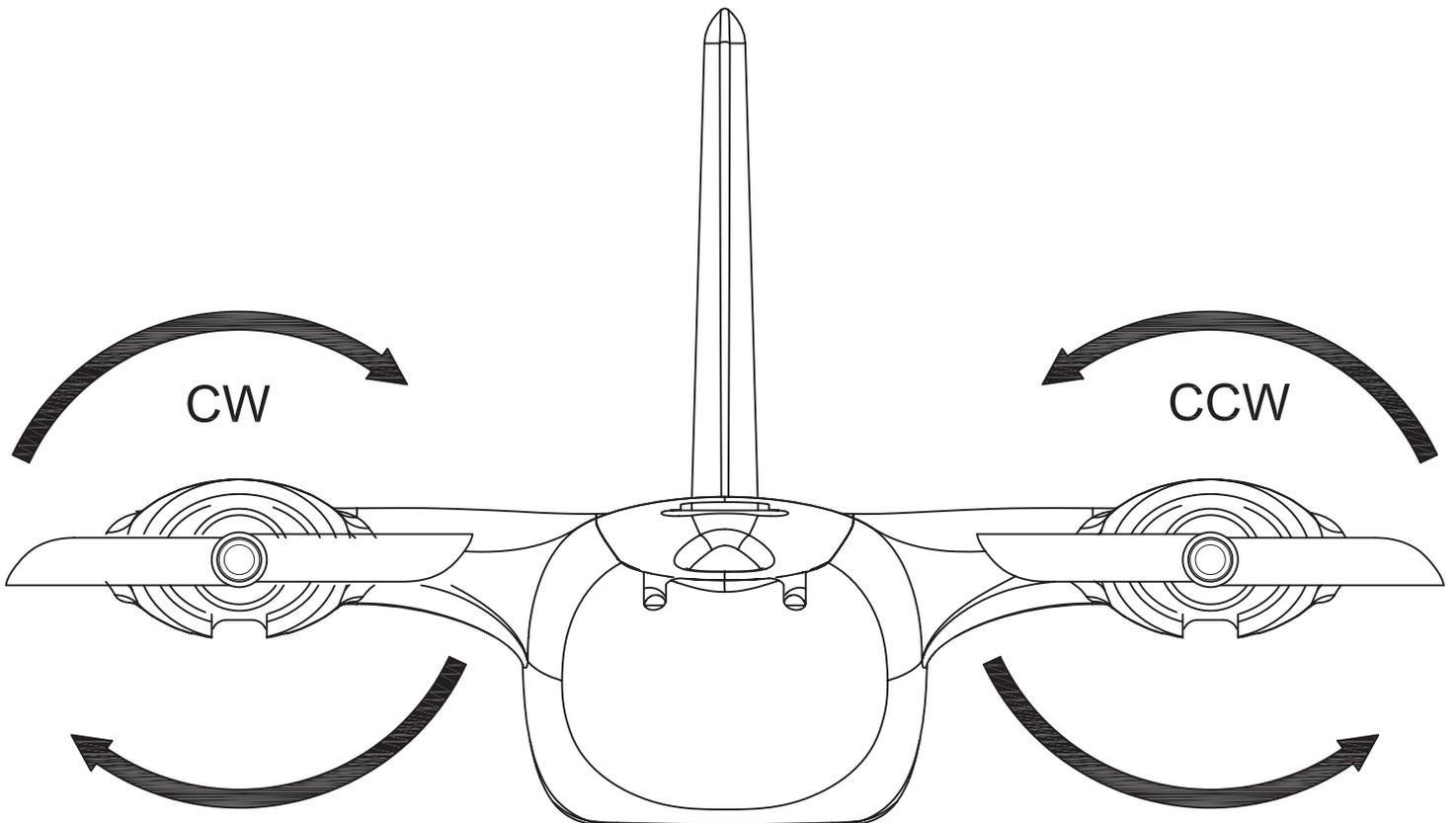
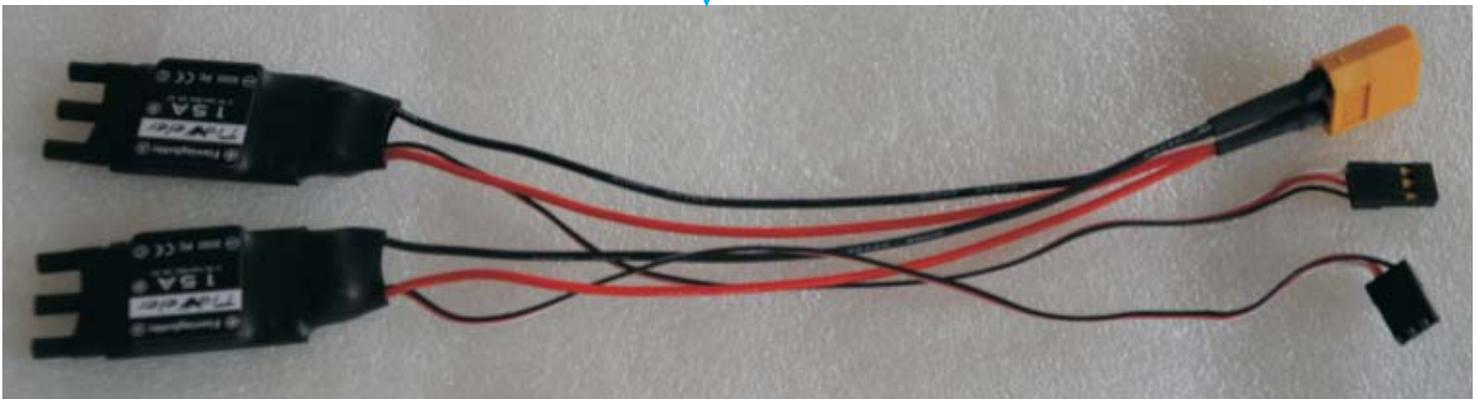
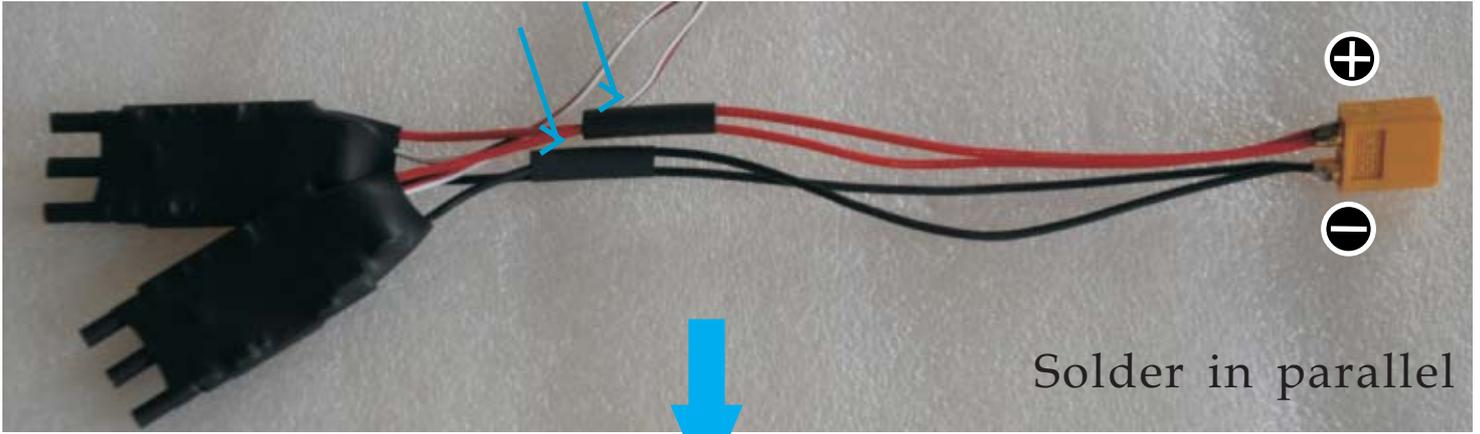
# Motor/ESC/Propeller



# Motor/ESC/Propeller

Black EPP/White EPP and White EPO is the same

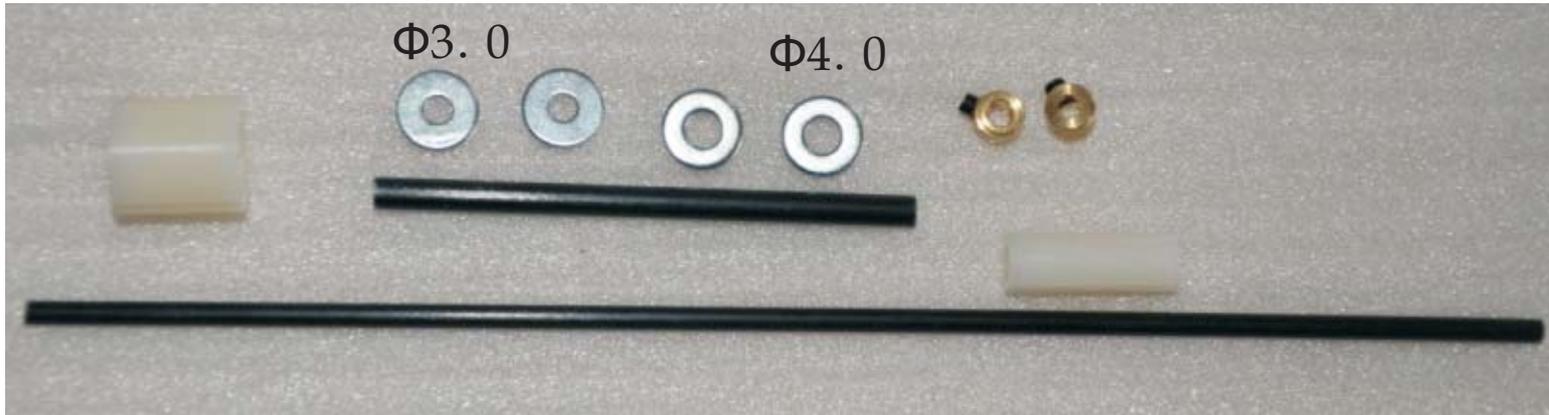
Note: Move the heat shrink tubing inside first



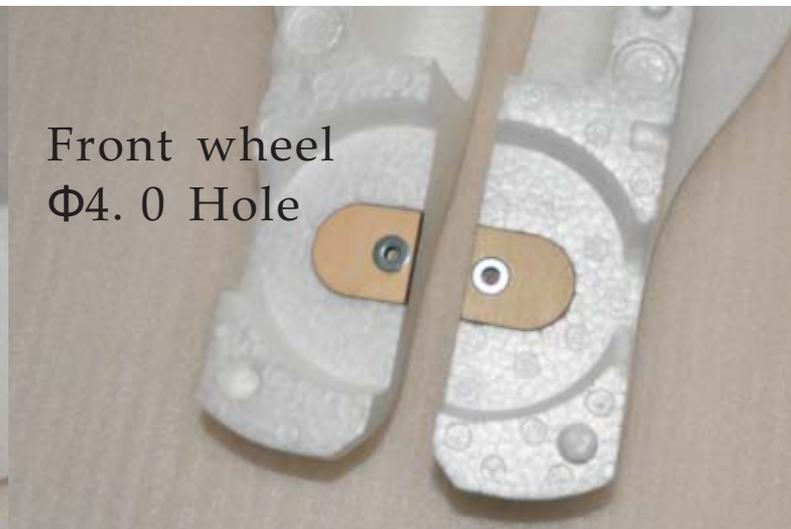
P 1 4

# Launch Cart

Launch Cart is not must to everybody (Options only)  
Good to enjoying rolling take off and beginner  
<not included by kits/ARF>



Find out all the parts, gluing the metal washers first



# EVA Cushion

What is this for ?

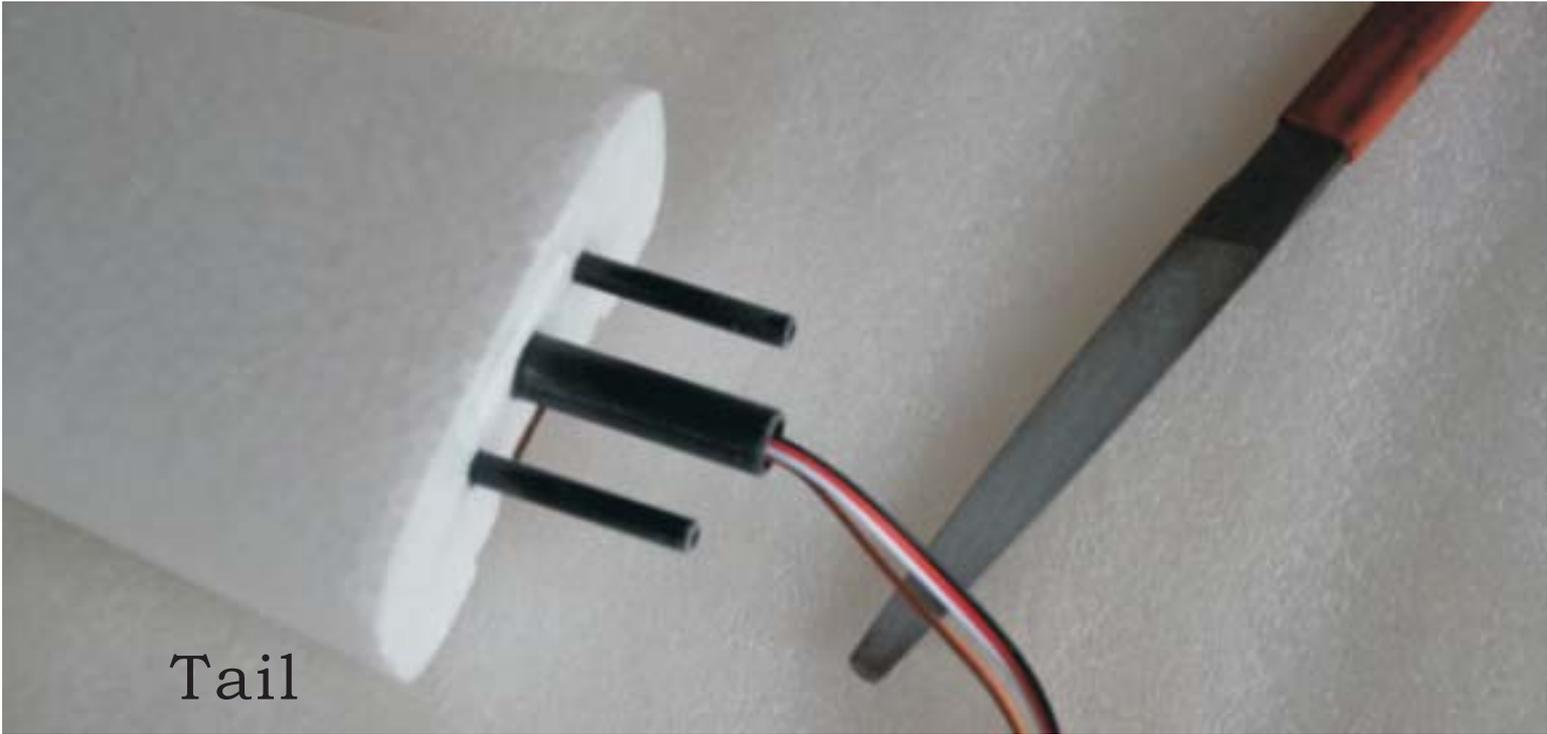
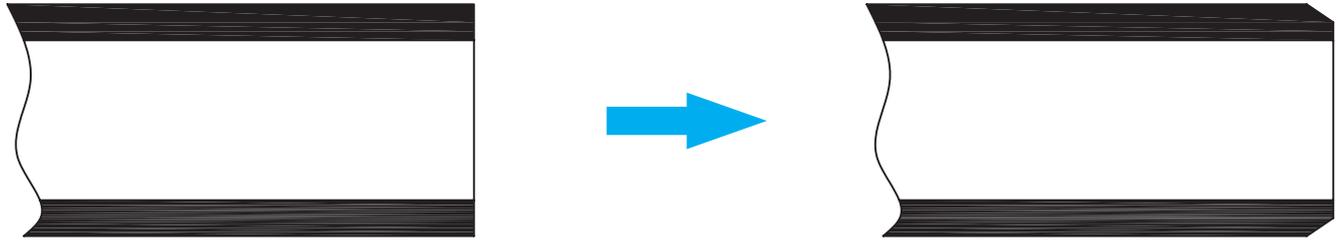


Use it as cushion if you found the locker become loose

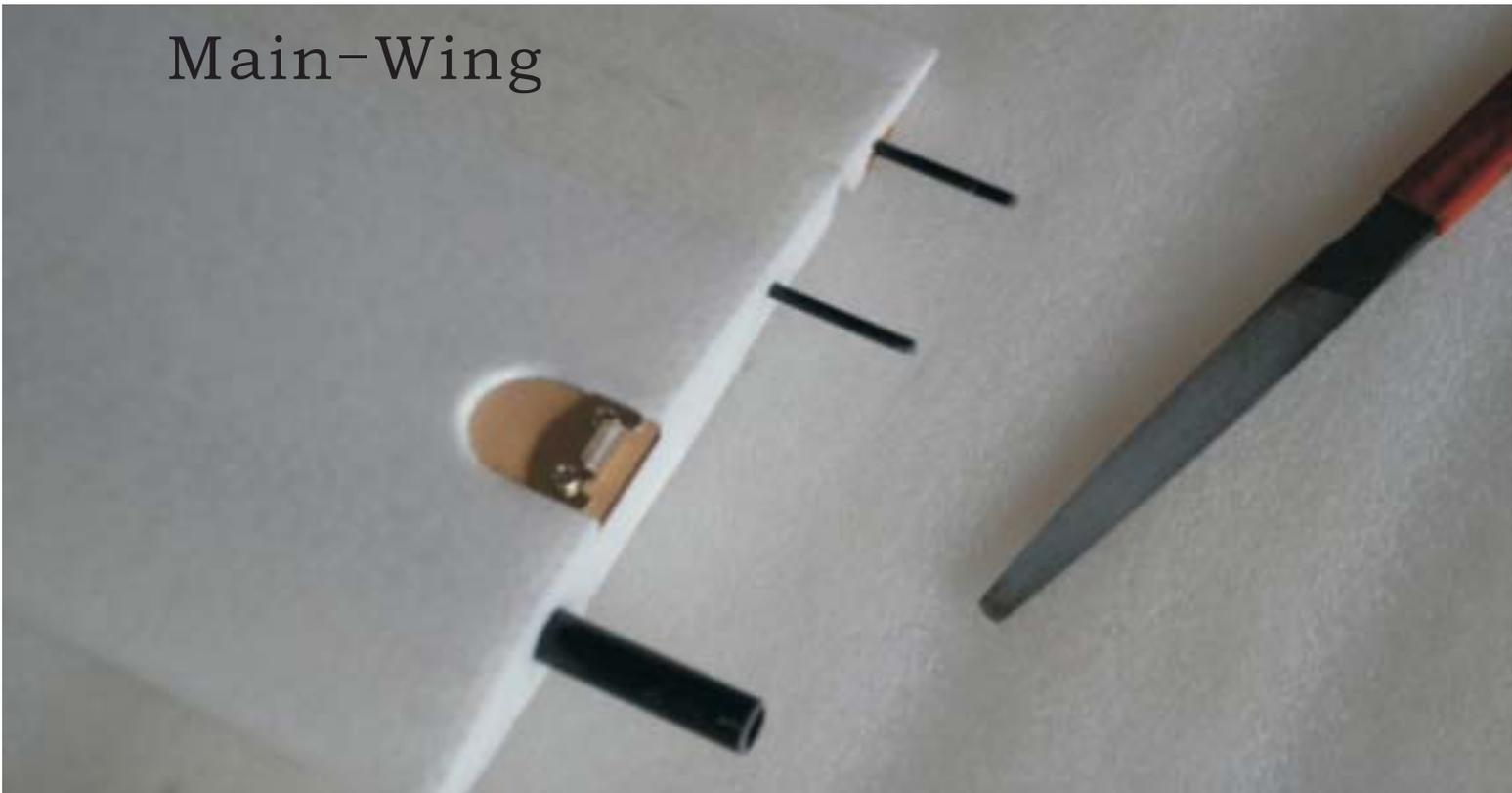


# Suggestions

Chamfer edges of those carbon tubes would be more smooth and convenience to deployment



Tail



Main-Wing

# Suggestions

Tail Fuselage cover is possible protruded after gluing if you found big gap between fuselage and tail-boom use hobby knife cut off few foam of the fuselage cover

Please ignore this page if no obvious gap

