



USER MANUAL



Hyper Biplane



MADE IN CHINA

Warning : This aircraft is a hobby grade product, only for people 14-year old or above.
Please read and understand all instructions before operating.

Features of the Hyperbipe

- 1.Modern design, smooth outline and blade-like fuselage.
- 2.Perfect in 3A flying, and can also do some 3D aerobatic maneuvers. Strong wind-resistance.
- 3.Strong power system & high quality servos ensure happy and stable flying experience.
- 4.Simple, orderly and easy to maintain equipment layout design.
- 5.Durable, easy to maintain and beautiful EPO material used, avoid troubles caused by unexpected and faulty flying.

Specification

Fuselage length: 900mm (35.4 in.)
 Wingspan: 900mm (35.4 in.)
 Flying Weight: 610-640g (with battery)
 Motor: 2212 KV1400
 ESC: 30 Amp
 Servo: 9g*4 micro servo
 Radio : 4/more channel
 Receiver:4/more channel
 Battery: 11.1V 800-1000mah lipo 25c
 Recommended Environment: Outdoor
 Assembly Time: Less than 1 Hour

Examine your kit carefully

Durafly model kits are subject to QC checks throughout production, and we sincerely hope that you are completely satisfied with the contents of your kit. However, before assembling, we ask that you check all parts against the parts list, if you are missing any parts, please contact Customer Services via hobbyking.com. Also check for any damages to items within the box. Your model has travelled a long way, and in some case could have sustained some damage. If you feel the damage if beyond reasonable repair, please contact CS.

Please note:
 We are constantly working on improving our models, therefore every model is subject to change without notice.

Caution!

This is a sophisticated hobby product and is NOT a toy. It must always be operated with caution, common sense and some basic mechanical ability. This manual provides instructions as the the assembly, safe operation and maintenance of this hobby product. It is highly recommended that you follow and read fully the instructions and warnings stated in this manual including, safety, assembly, set-up and flying guidelines in order to operate this product correctly and avoid damage or serious injury.

Do not fly under the conditions below

Strong winds (more than 20pmh)
 Other storm like conditions
 Area close to high voltage wires
 Area with high density population

Cautions for flying

While parks make excellent flying areas, make sure you have permission to fly there and follow safety guidelines set by local authorities.

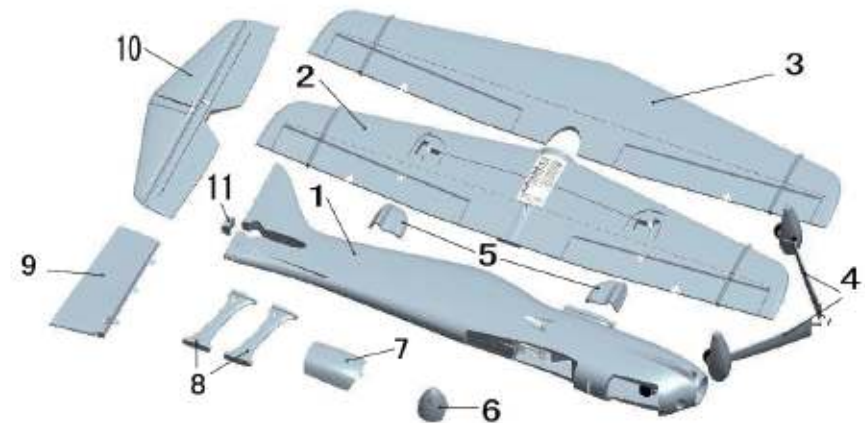
Note for Storage

- Never leave you flight battery installed in the model for storage.
- If the model is hung, ensure the control surfaces are not taking the weight of the model.
- Store away from direct sunlight and ideally at room temperature.
- Secure your model for storage incase it moves and gets damaged.

Tools Required :

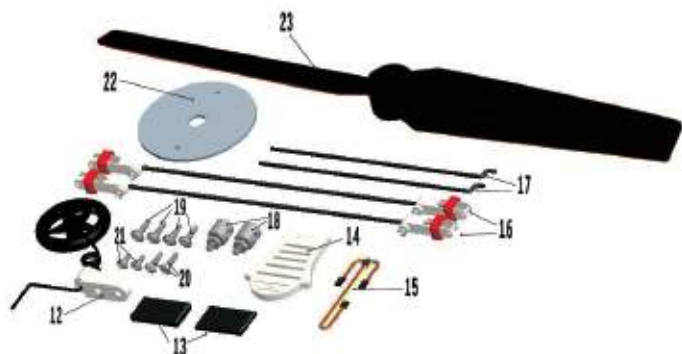
Scissors, balsa knife, combination pliers, screwdriver, quick-dry glue.

Foam parts included in the packing



- | | |
|-------------------------------------|-----------------|
| 1: Fuselage | 7: Canopy |
| 2: Lower wing | 8: Wing Struts |
| 3: Upper wing | 9: Rudder |
| 4: Landing gear | 10: Stabilizer |
| 5: Left & right servo arm protector | 11: Rudder bolt |
| 6: Spinner | |

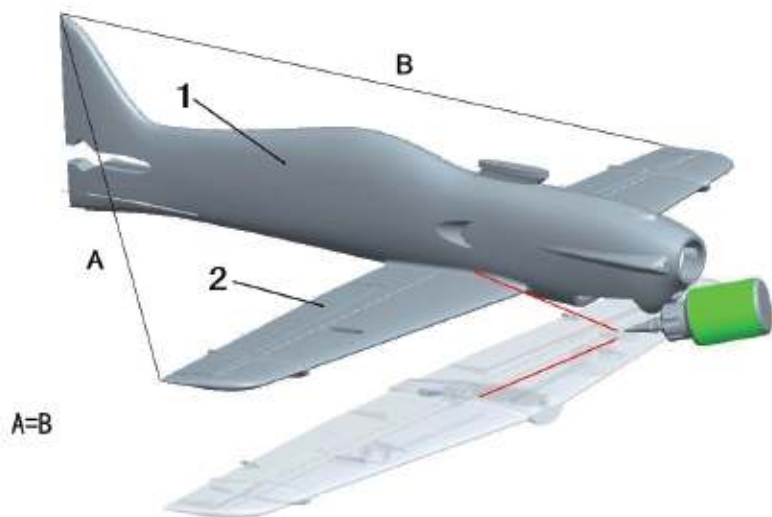
Parts included in the packing



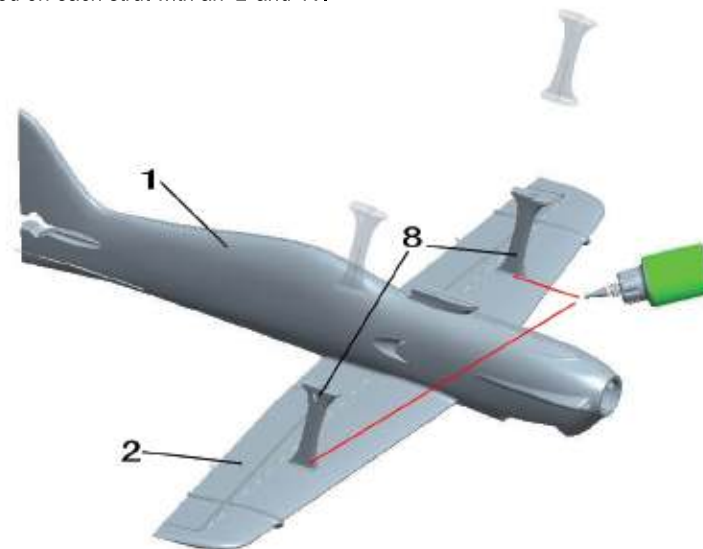
- | | |
|-------------------------|--------------------------------------|
| 12: Tail wheel | 18: Adjustor |
| 13: Nylon velcro | 19: Motor fixing screw (M2.6*10 MM) |
| 14: Landing gear bolt | 20: Spinner fixing screw (M2*8 MM) |
| 15: Y harness | 21: Tail wheel fixing screw (M2*5MM) |
| 16: Aileron linkage | 22: Spinner fixing mount |
| 17: Aileron control rod | 23: GWS HD 9050 |

Assembly steps *(please skip some steps if they were assembled in factory already)*

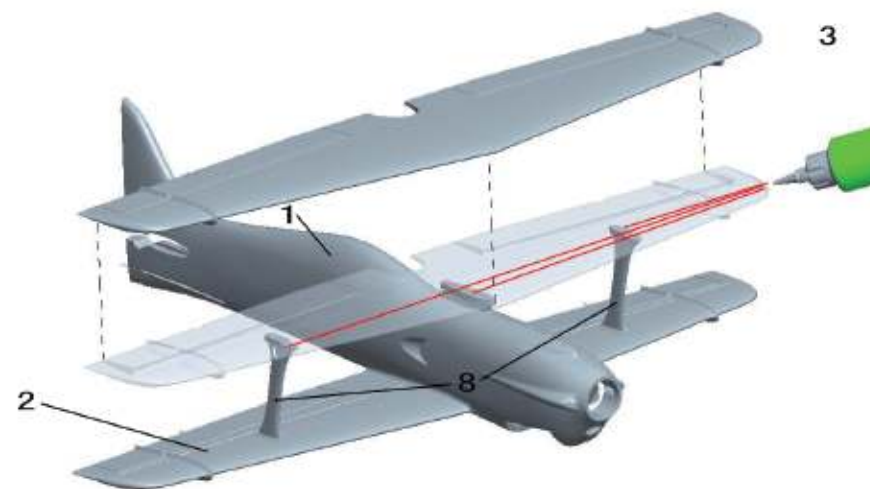
1. Apply glue to the lower wing seat of the fuselage, install lower wing into the slot of fuselage ensuring a good fit. Note A and B below must be of equal length.



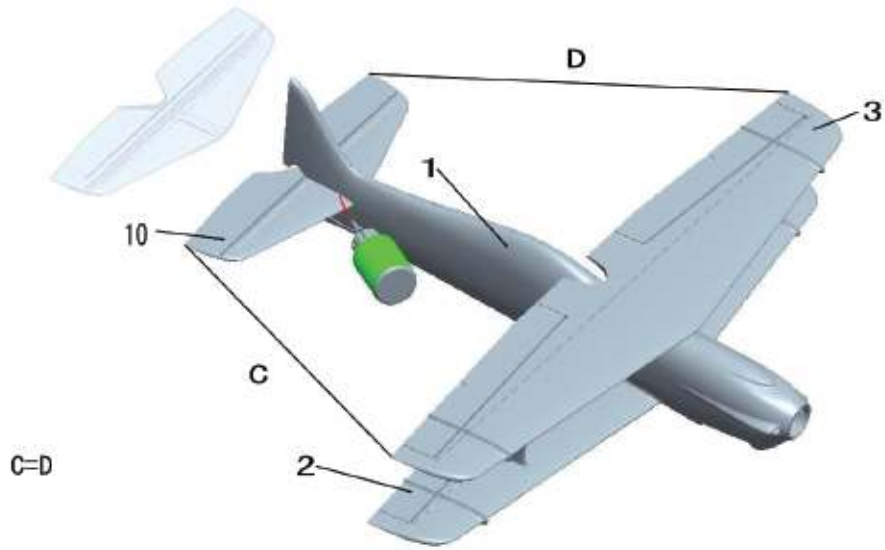
2. Apply glue to the lower wing strut wells and install struts in position. Note Left and right orientation as marked on each strut with an 'L' and 'R'.



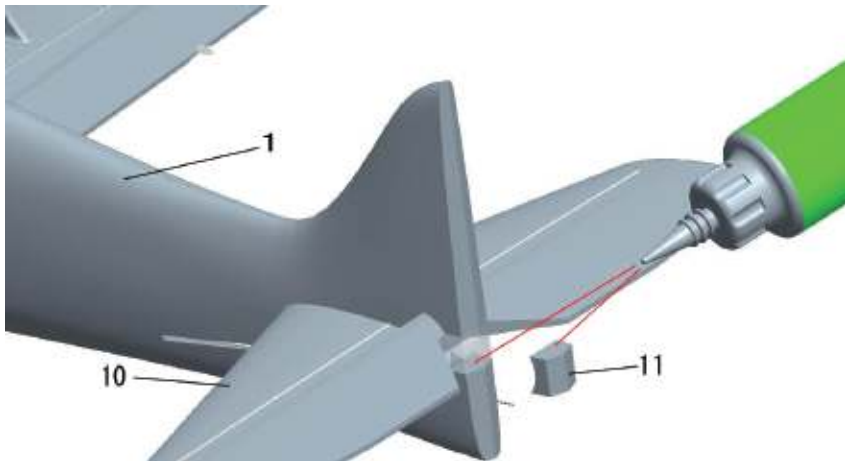
3. Apply glue to the top of the wing struts and the top wing post on the upper fuselage. Install the top wing as shown.



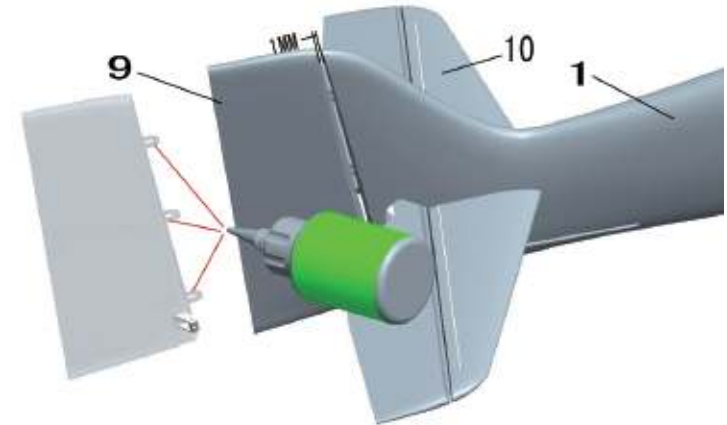
4. Apply glue to the opening at the tail and insert the horizontal stabilizer as shown. Ensure the distance between 'C' and 'D' are equal.



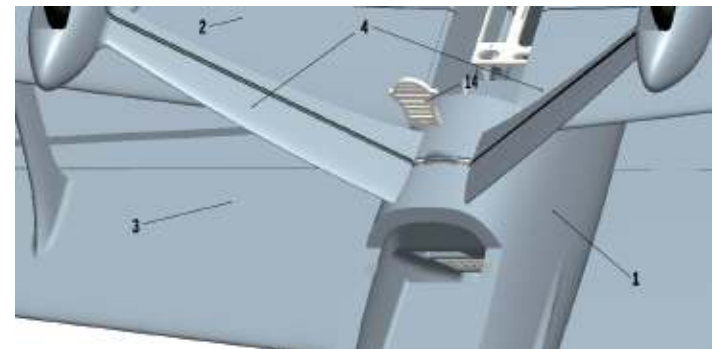
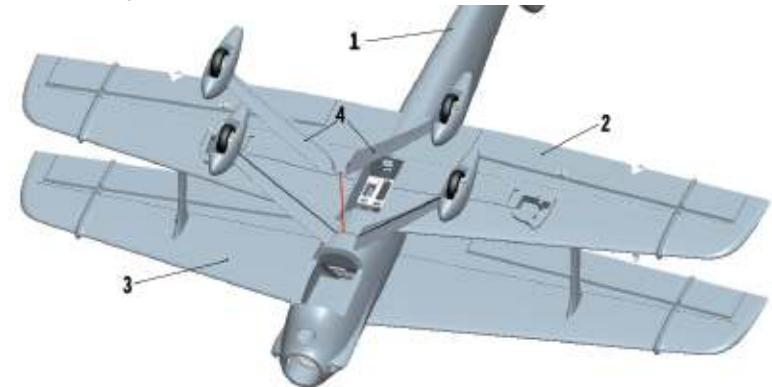
5. Locate the vertical stabilizer insert and glue in place as shown.



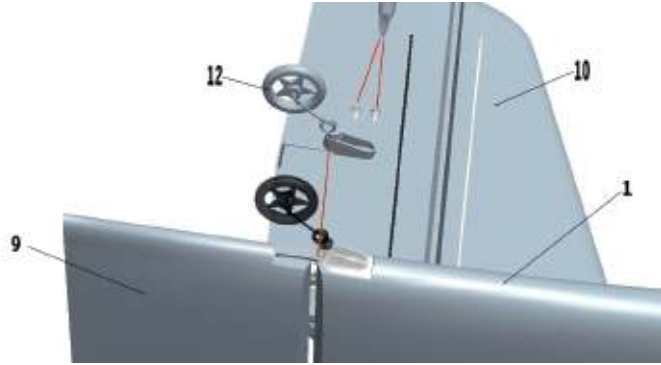
6. Insert rudder with installed hinges into corresponding slots on fuselage, and fix with glue. (Ensure there's 1mm between rudder and fuselage.)



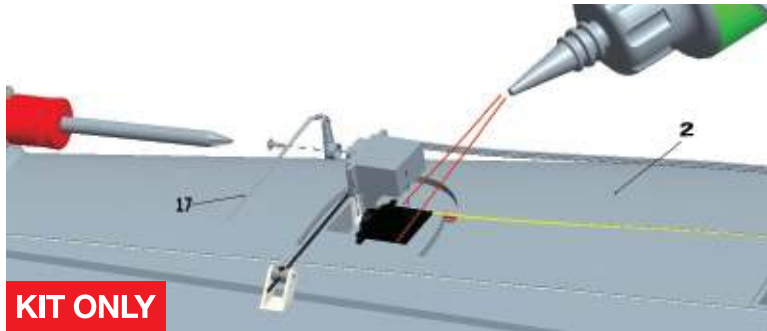
7. Insert assembled landing gear into corresponding location on fuselage, and secure with the plastic undercarriage tab provided.



8. Secure the tail wheel to the underside of the rear fuselage as shown using (M2*8mm) screws and insert the rear wire into the round slot on fuselage, then use glue to fix.

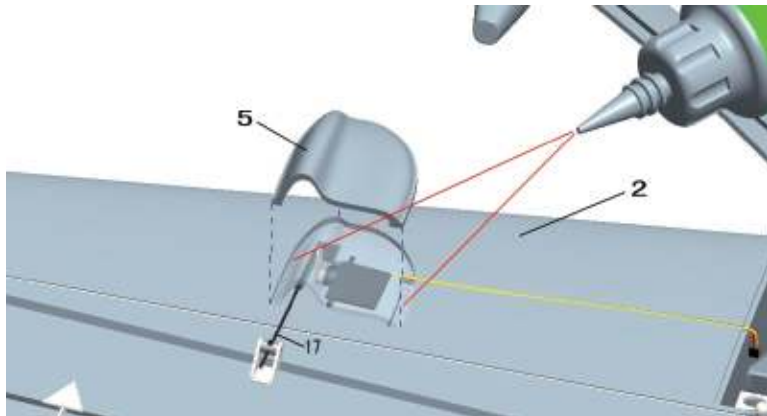


9. **Left wing:** Assemble push rod to control horn. Secure assembly to servo (remember to center the servo first). Glue the servo into pocket of underside of the wing (as shown)

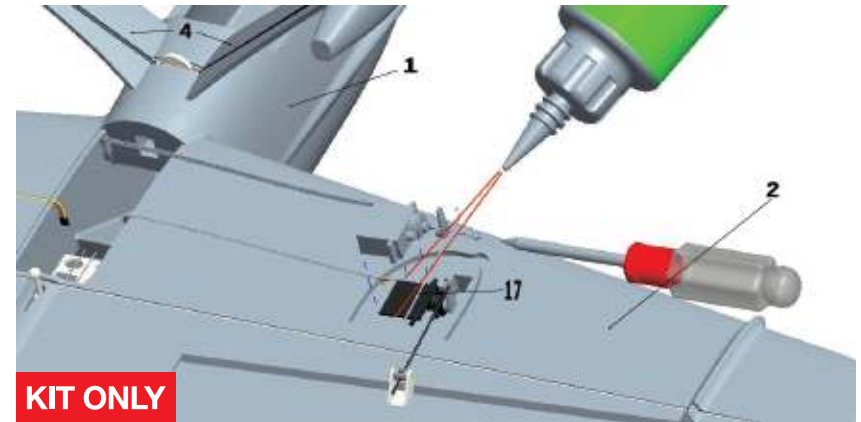


KIT ONLY

10. Glue corresponding wing servo covers to left and right wing, ensuring the servo horn and push rod is free to move without coming into contact with the cover.

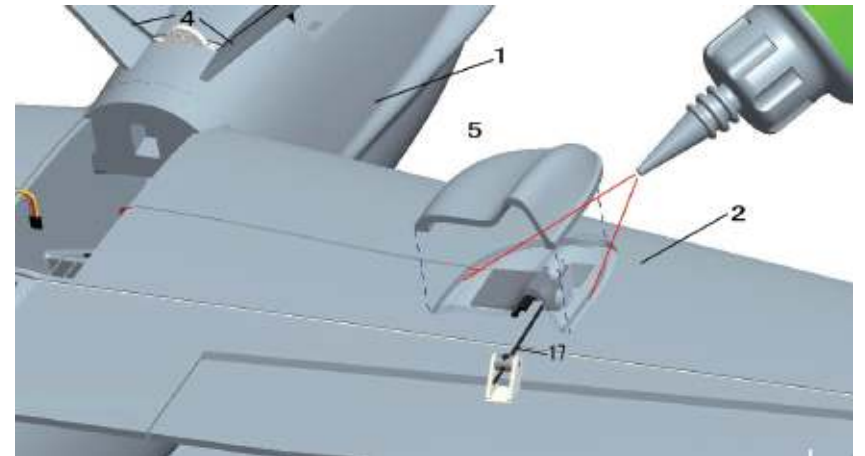


11. **Right wing:** Assemble push rod to control horn. Secure assembly to servo (remember to center the servo first). Glue the servo into pocket of underside of the wing (as shown)

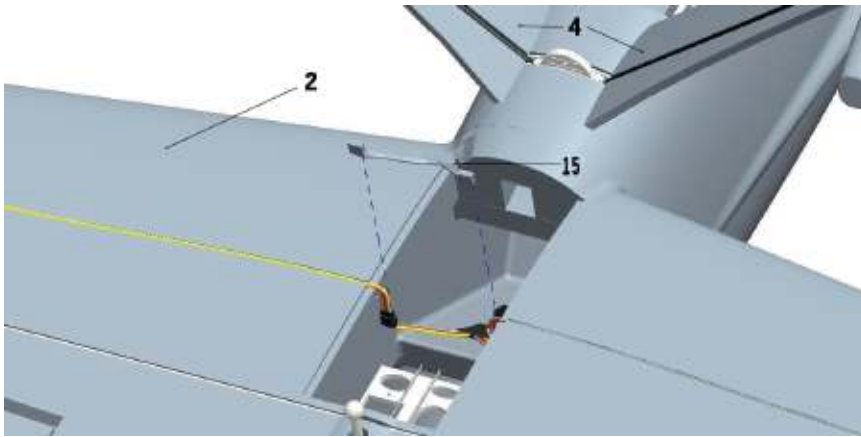


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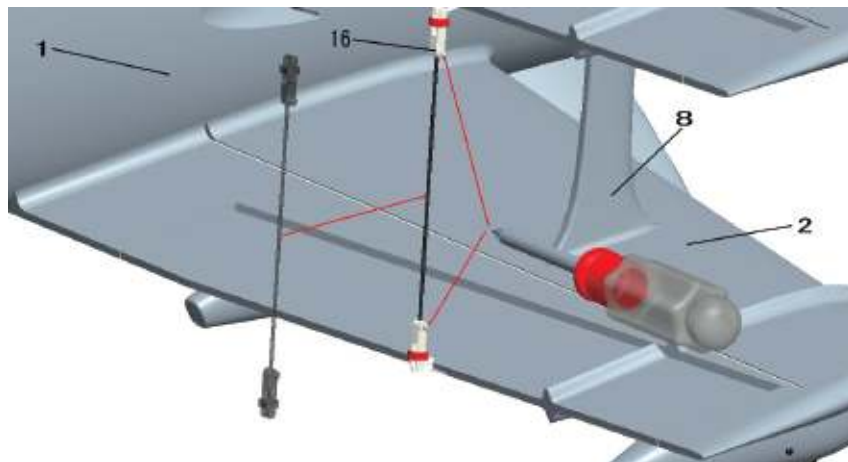
12. Glue corresponding wing servo covers to left and right wing, ensuring the servo horn and push rod is free to move without coming into contact with the cover.



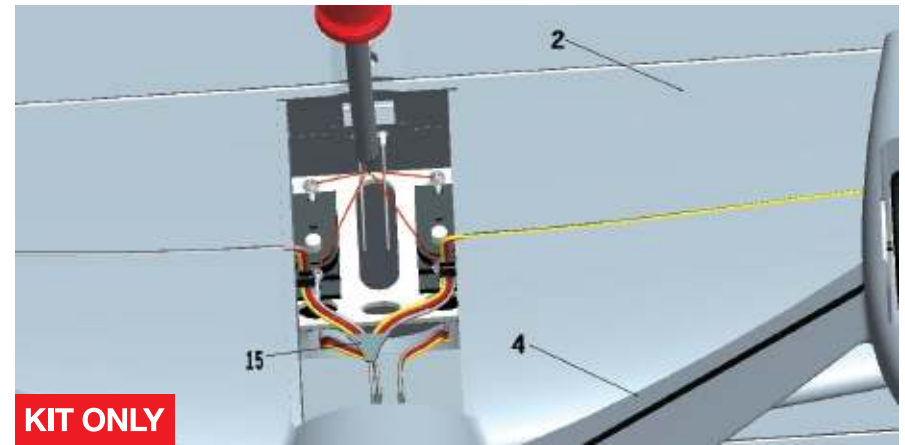
13. Connect aileron servo leads with provided Y lead as shown, ensuring correct polarity.



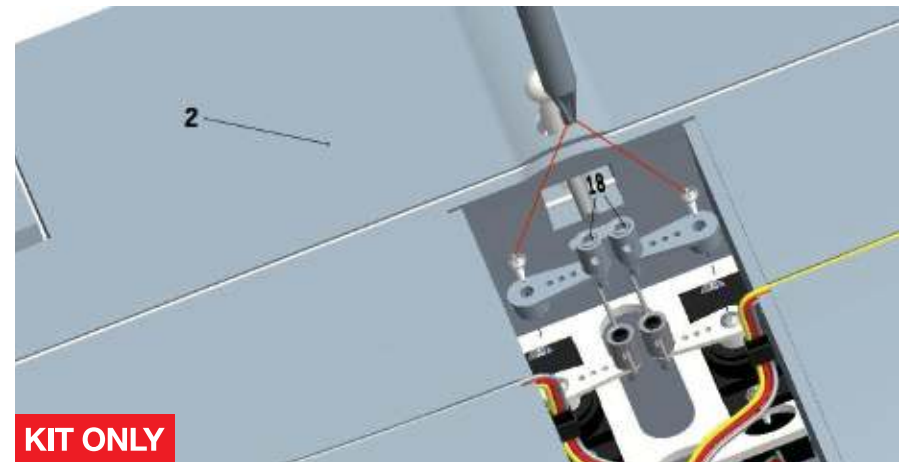
14. Connect aileron link rod to aileron horns on both of upper and lower wing as shown. Adjust the length of link rod where necessary to ensure both upper and lower ailerons are level with the wing trailing edge. Once level, secure clevises to rod with screw driver as shown.



15. Install rudder and elevator servo into the servo tray as shown, securing with the screws provided.



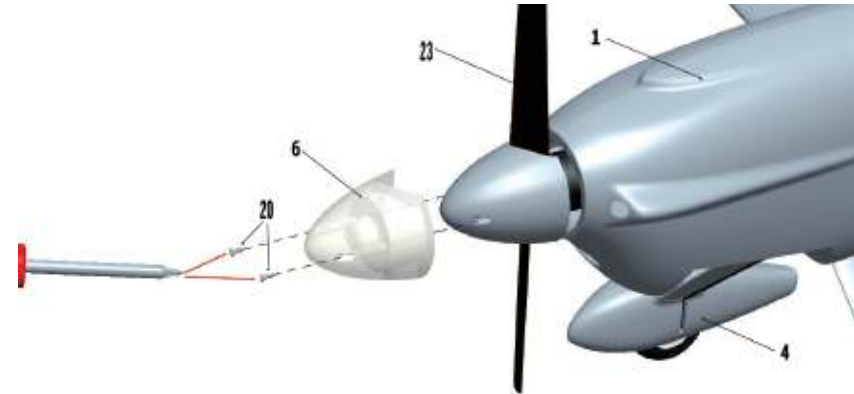
16. Install supplied control rod fasteners to the servo horns, then secure control horn to the servo. Rudder and elevator control rods should be inserted into each respective fastener and secured with the grub screw as shown.



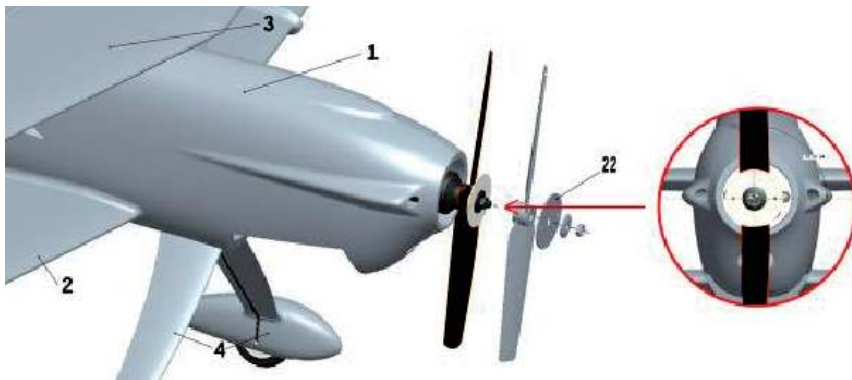
17. Install motor to the firewall using 'X' mount supplied with motor and using M2.6*10mm screws provided, as shown below.



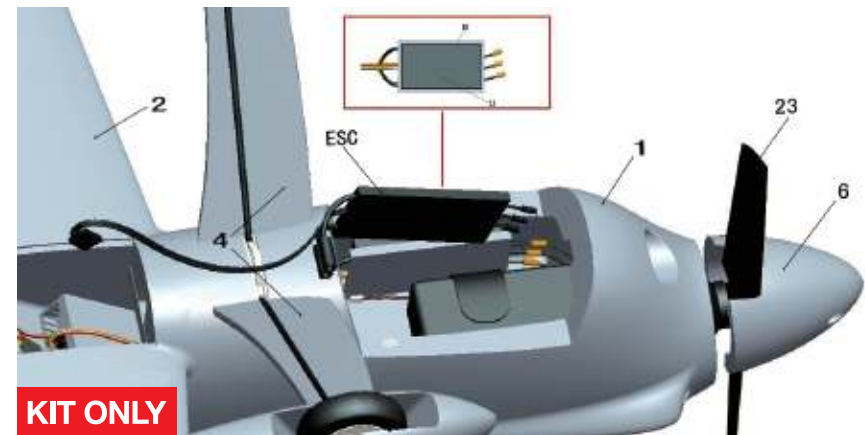
19. With all mounting holes aligned secure the spinner to the model using the (M2*8mm) screws provided as shown below.



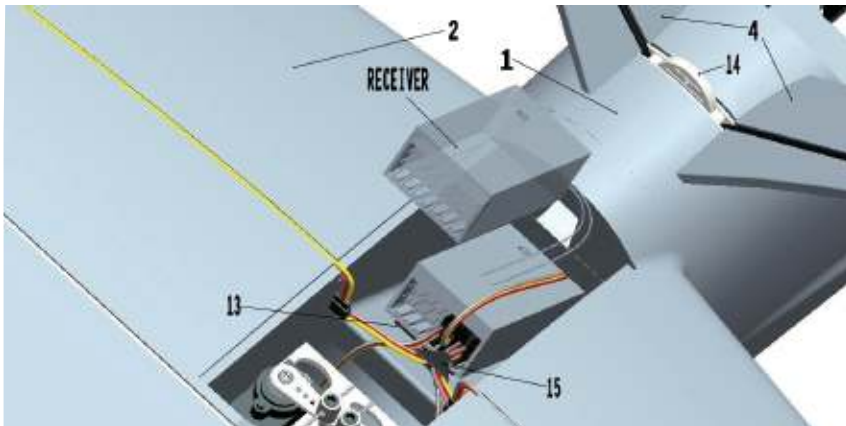
18. Install propeller and spinner back plate onto the motor shaft in the order shown. Make sure the mounting holes in the spinner line up to the holes on the spinner back and front plate. Secure with shaft nut and washer.



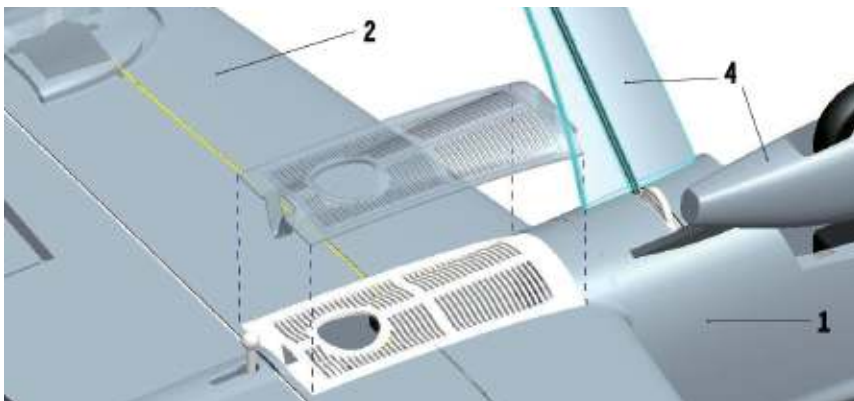
20. Install your choice of ESC into the area noted below. Fix in place with velcro.



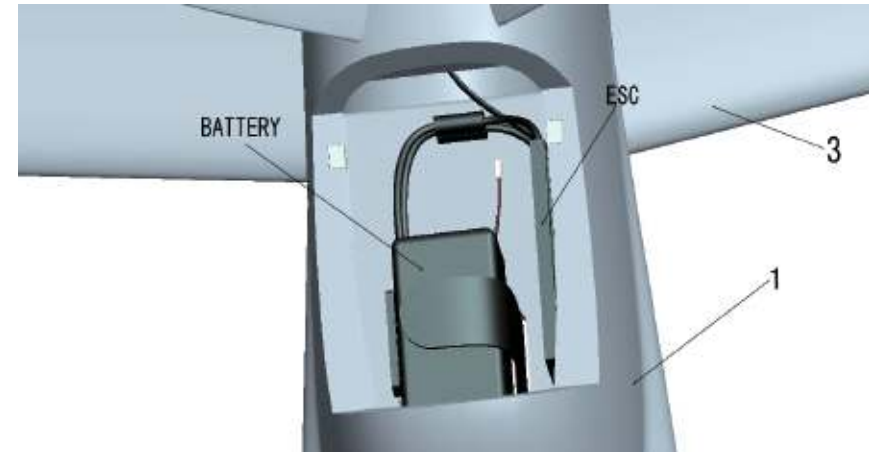
21. Install your choice of receiver in front of the servos as shown and secure with velcro.



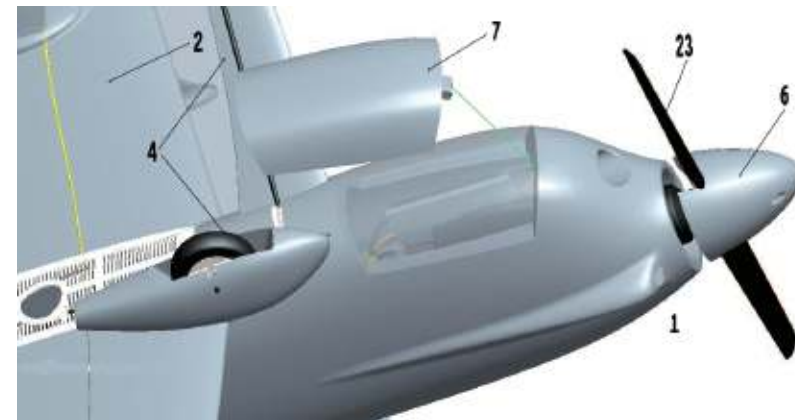
22. With electronic installation complete, close the servo bay with the hatch provided.



23. Remove the battery hatch under the front of the nose. For flight, secure your flight battery with velcro, moving forwards and backwards until the desired CoG is achieved. (CG shown later).



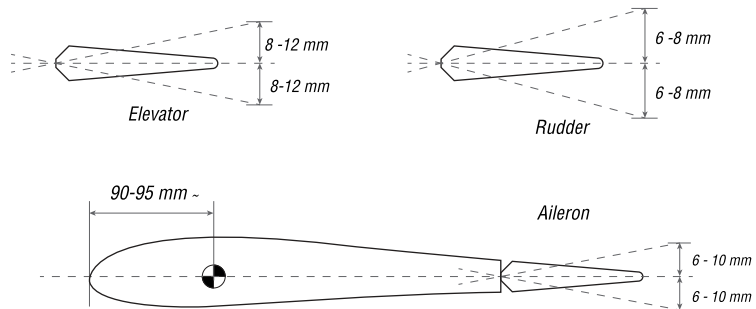
24. Replace battery hatch as shown.



25. Check for the correct center of gravity before flying. The CG is approximately 95mm from the leading edge of the upper wing.



Control throws:



- * Elevator 'low rates' 15mm 'high rates' 30mm in either direction from neutral. (travel, 120% up and 100% down)
- * Aileron 'low rates' 10mm 'high rates' 15mm in either direction from neutral.
- * Rudder 'low rates' 15mm 'high rates' 25mm in either direction from neutral.

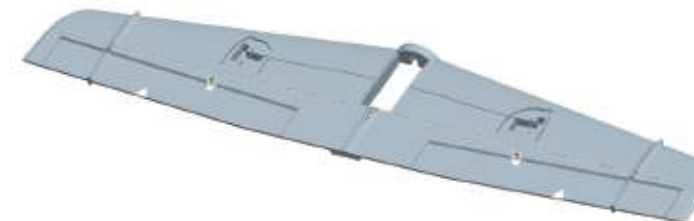
Fuselage
9095000053-0



Upper wing
9095000054-0



Lower wing
9095000055-0



Stabilizer
9095000056-0



Landing gear
9095000057-0



Wing struts
9095000058-0



Accessories
9095000059-0



Motor 2212
KV1400
9095000060-0



Rudder
9095000061-0



Battery Hatch
9095000062-0



Servo Hatch
9095000063-0



Spinner & Back Plate
9095000064-0



Servo arm protector
9095000065-0



Water decals
9095000066-0

