



Before operating this unit, please read these instructions completely.

TECHone™

# Yak55 3D EPP

## Instruction Manual



### Features:

1. Super light 10mm epp material used.
2. Very simple assembly, without any carbon fiber bracings, you can assemble within 30min.
3. Very light flying weight and durable. It is the first choice for indoor 3D elementary practice.

### Product Specifications

Fuselage Length: 840mm (33.0in.)  
Wingspan: 800mm (31.5in.)  
Flying Weight: 170-185g (with battery)  
Motor : AS2204 KV1700  
ESC : 10 Amp  
Propeller: GWS 8040  
Servos: 6- 8g micro servo \*3pcs  
Radio: 4/more channel  
Battery: 2S 7.4V 400mAh-500mAh Li-po

### Do not fly under the conditions as below

Wind strong enough to make the trees rustle  
A street with many trees or street lamps  
Close to high voltage electrical wires  
High Population density areas

### Cautions for flying

Large gyms, front lawns and parks make excellent flying areas. Make sure you have permission to fly and follow safety guidelines set by local authorities. The calmer the wind, the better!

### Note for Storage

please disconnect the lipo packs when finished flying  
Do not press or crush the airplane when storing  
The best way to store is to hang the airplane to keep the control surface rigid

### Recommended Flying Setup

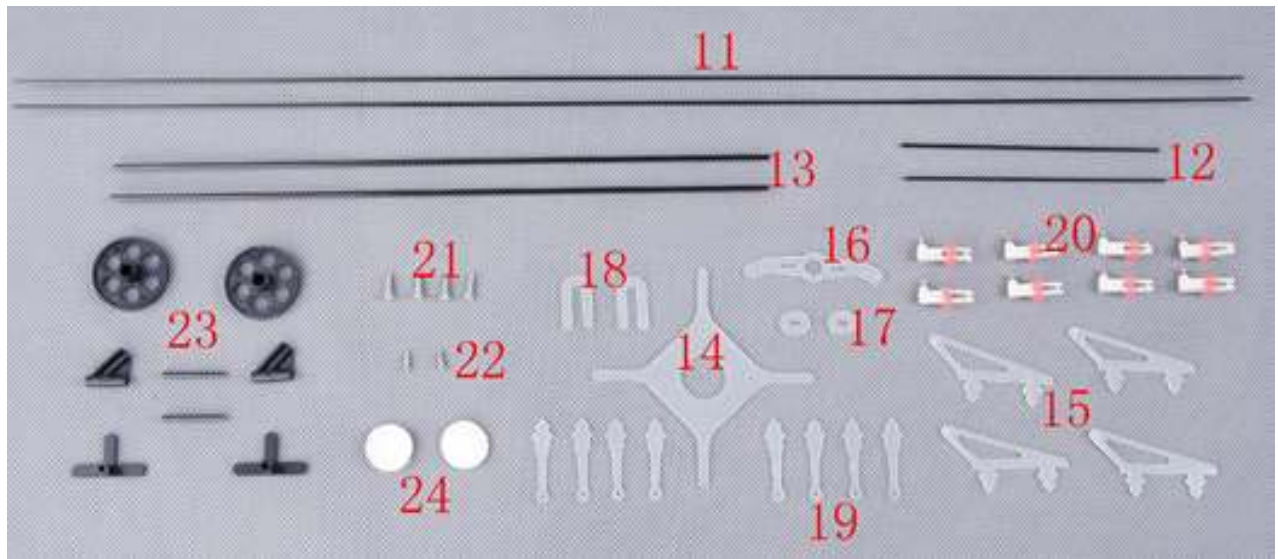
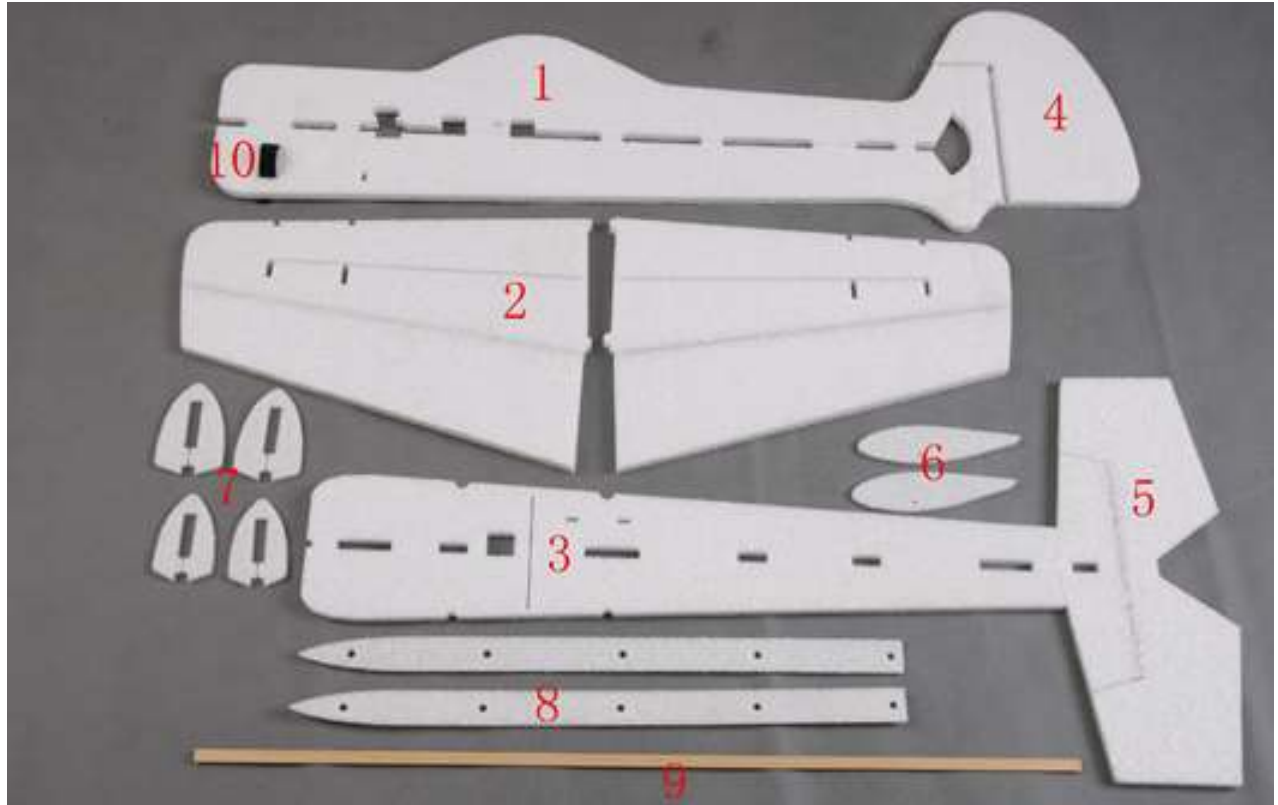
Max servo travel of aileron: 45 degrees up and 45 degrees down (55mm)  
Max servo travel of elevator: 50 degrees up and 50 degrees down (65mm)  
Max servo travel of rudder: 50 degrees left and 50 degrees right (70mm)

### CG Position:

80-90mm from the leading edge of the wing.



## Parts included in the packing

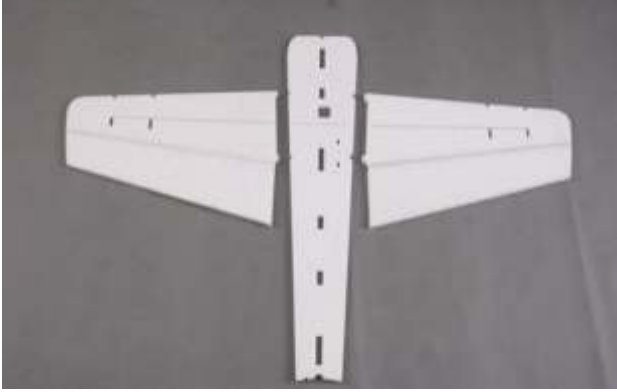


1	Vertical fuselage	1pc	15	Glass fiber control horn	4pcs
2	Wing	1pc	16	Servo arm extension	1pc
3	Horizontal fuselage	1pc	17	Round doubler	2pcs
4	Rudder	1pc	18	U reinforcement	2pcs
5	Stabilizer	1pc	19	Push rod knighthead	8pcs
6	Wheel cover	2pcs	20	Plastic clip	8pcs
7	Wing fences	4pcs	21	Self-tapping screw 2*8	4pcs
8	Fuselage reinforcing foam strip	2pcs	22	Self-tapping screw 1.4*6	2pcs
9	Wing reinforcing batten	1pc	23	Wheel	1pc
10	Nylon velcro band	1pc	24	Round velcro	2pcs
11	Elevator & rudder push rod	2pcs			
12	Aileron push rod	2pcs			
13	Landing gear carbon fiber rod	2pcs			
14	Motor mount	1pc			

The items below are required for assembly



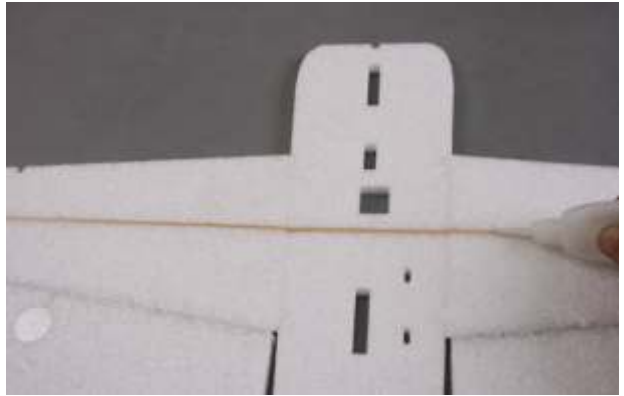
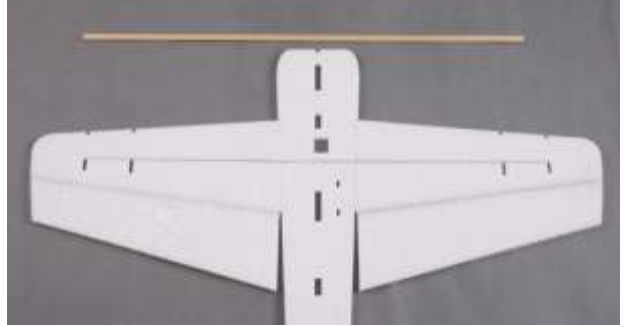
1. Glue left and right wing together as picture shown.



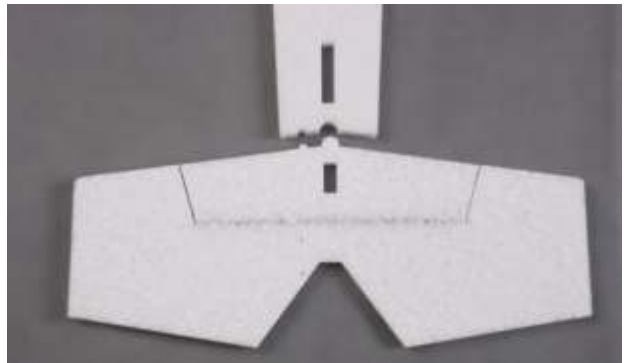
2. Wing reinforcing batten installation.  
Cut off the cutting seam on the wing.



Insert the batten into the slot and fix with glue.

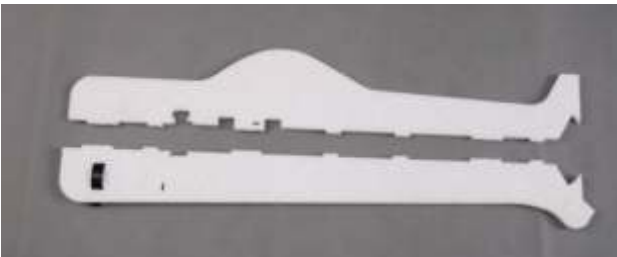
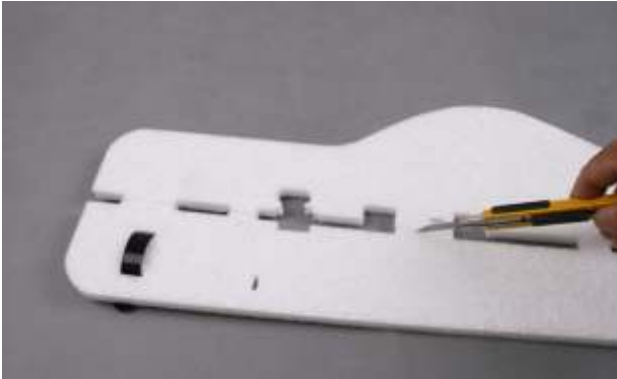


3. Stabilizer installation.



4. Lower vertical fuselage installation.

Cut off the joints between upper and lower vertical fuselage as picture shown.



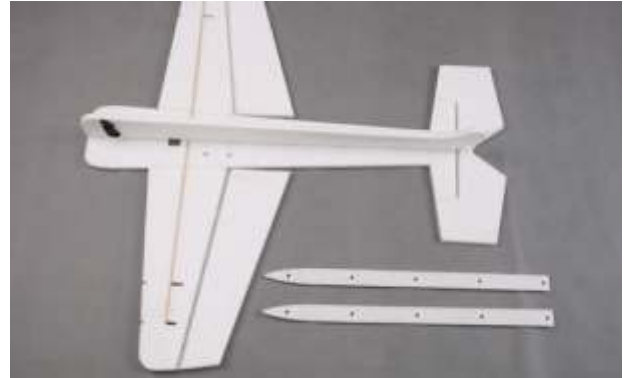
Install lower vertical fuselage on horizontal fuselage in place.



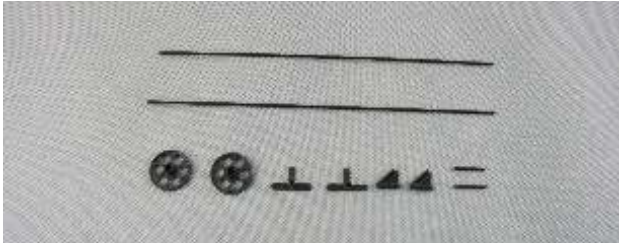
Make sure vertical fuselage is perpendicular to horizontal fuselage, then fix with glue.



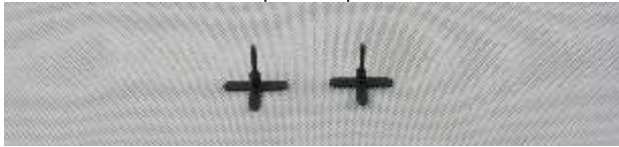
5. Fuselage reinforcing foam strip installation.



6. Landing gear assembly.



Press 2mm axis into T plastic part.



Then install wheel and triangle part as picture shown.



Fix axis and triangle part with glue.



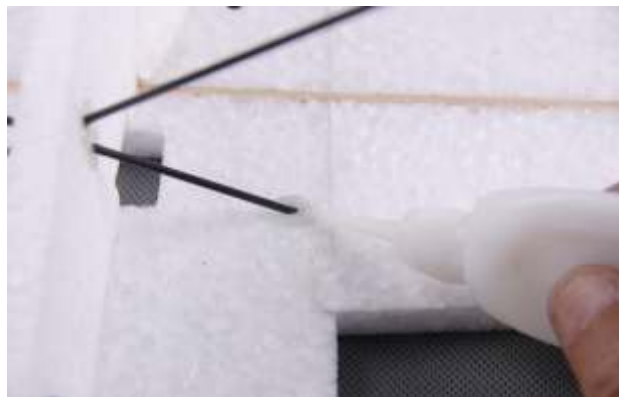
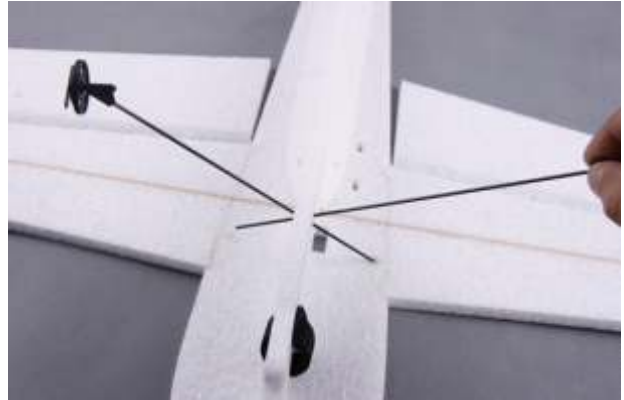
Insert  $\phi 2 \times 220$ mm carbon fiber rod into the slot on triangle part, then fix with glue.



7. Landing gear installation.



Glue round doublers on pre-reserved holes on wing, then install landing gear as picture shown and fix with glue.



Place the U reinforcements on the joints of landing gear and lower fuselage as picture shown, then fix with glue.



8. Wheel cover installation.

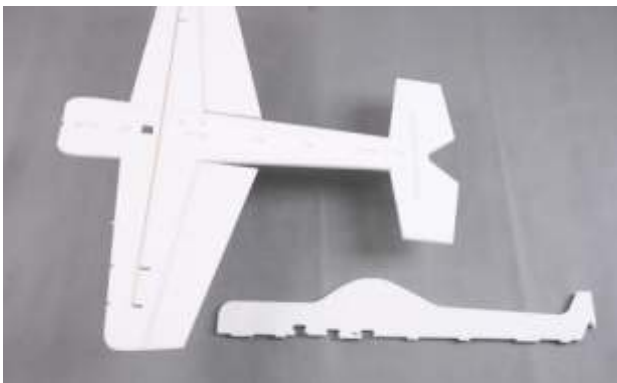




10. Rudder installation.

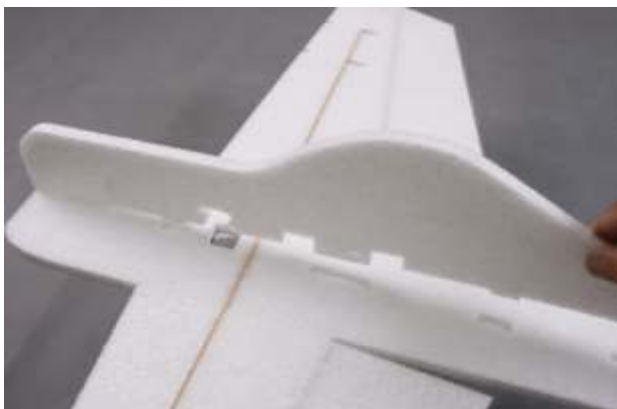


9. Upper fuselage installation.



Insert upper fuselage into the slots on horizontal fuselage, then fix with glue.

11. Wing fences and motor mount installation.





12. Control horns installation.

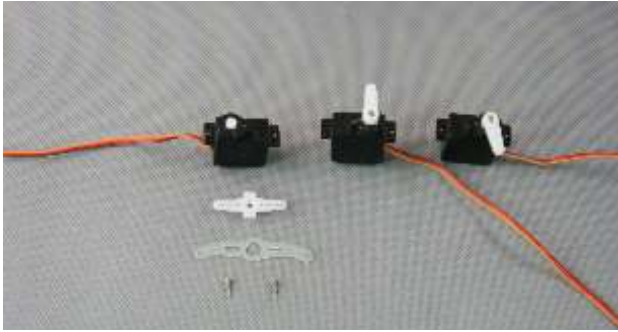


Separately insert 4pcs control horns into pre-reserved holes on rudder, elevator and ailerons, then fix with glue. Make sure the rudder control horn is on the right of rudder.





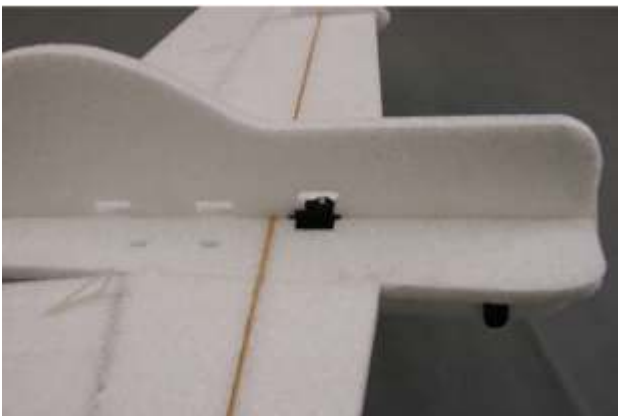
13. Servo and servo arm extension installation.



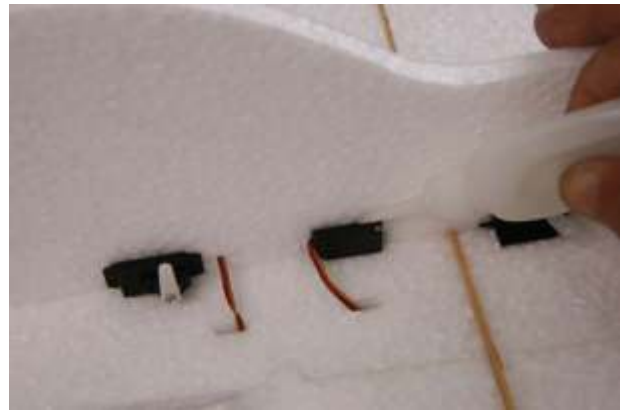
Use screws to fix servo arm extension on aileron servo arm.



Put aileron servo inside the servo house that is the closest to the nose, and fix with glue, then install servo arm extension on the servo.



Put elevator and rudder servo into the middle and rear servo house, then fix with glue.



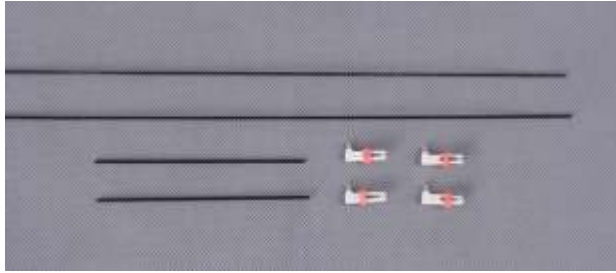
14. Plastic clip installation.



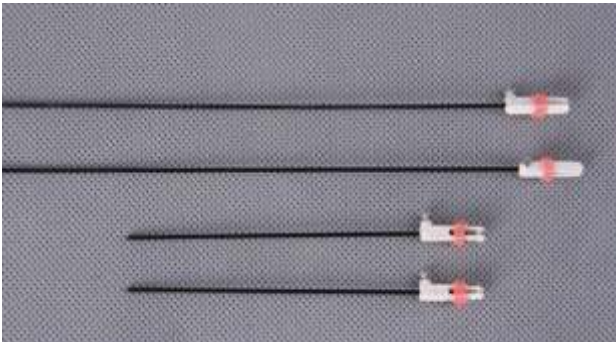
Separately install 4pcs plastic clip on 4pcs control horns.



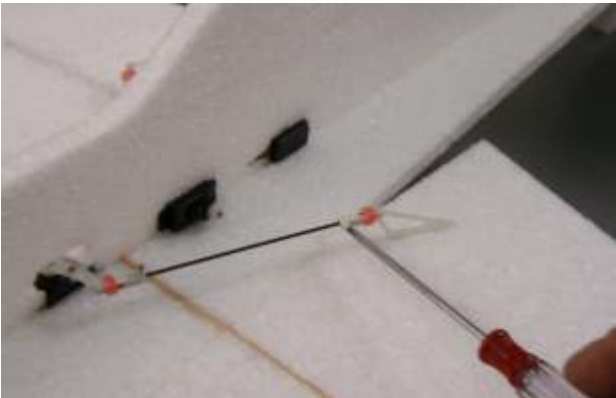
15. Push rod installation.



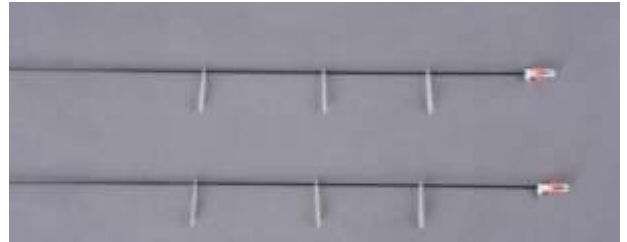
Install the plastic clip on one end of the 4 push rods each.



Connect one end with plastic clip to the aileron servo arm, and then connect another end to the plastic clip of the aileron servo horn. Adjust well the length and tighten the screws as picture shown.



Put on 3pcs knighthoods each on rudder and elevator push rod.



When install rudder and elevator push rod, connect one end with plastic clip to the servo arm, and insert knighthoods into pre-reserved holes on fuselage, then connect another end of push rod to the hole on plastic clip. Make sure servo arm, rudder & elevator are in neutral, then adjust the height of knighthoods to make push rod in a straight line. After that, fix the knighthoods with glue and screw down the screws on plastic clip.





Finished push rods.

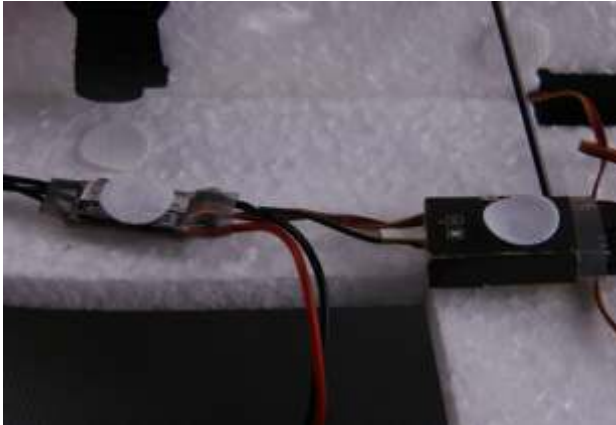
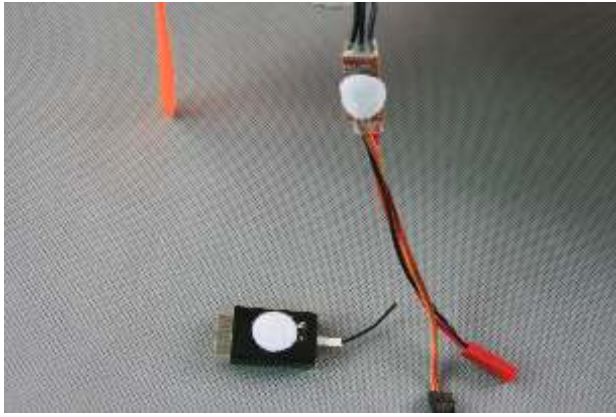


17. Receiver and battery installation.

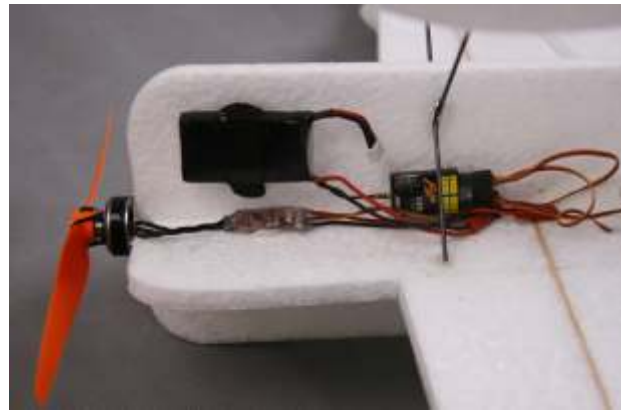
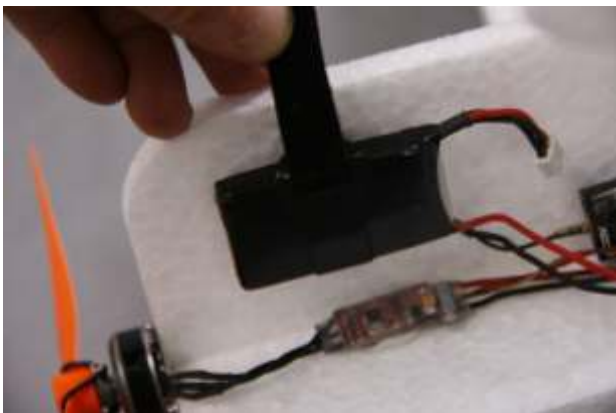
Stick one side of round velcro on receiver and ESC, another side on proper places on fuselage, then fix receiver and ESC by velcro.

16. Motor and propeller installation.





Fix battery with velcro.



All installation finished.



A perfect YAK55-EPP 3D is done after your careful assembly. While assembly, the flying weight is really critical to the flight performance and will be affected by adding weight, so you should reduce any unnecessary weight while assembly. Then you'll get the best flying performance.

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