TECHone™

Before operating this unit, please read these instructions completely.

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--180g (with battery)
Motor: 2204 KV 1700
ESC: 10 Amp
Propeller:GWS 8040prop
Servo: 6- 8g micro servo *4pcs
Radio: 4/more channel
Battery: 2S7.4V 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

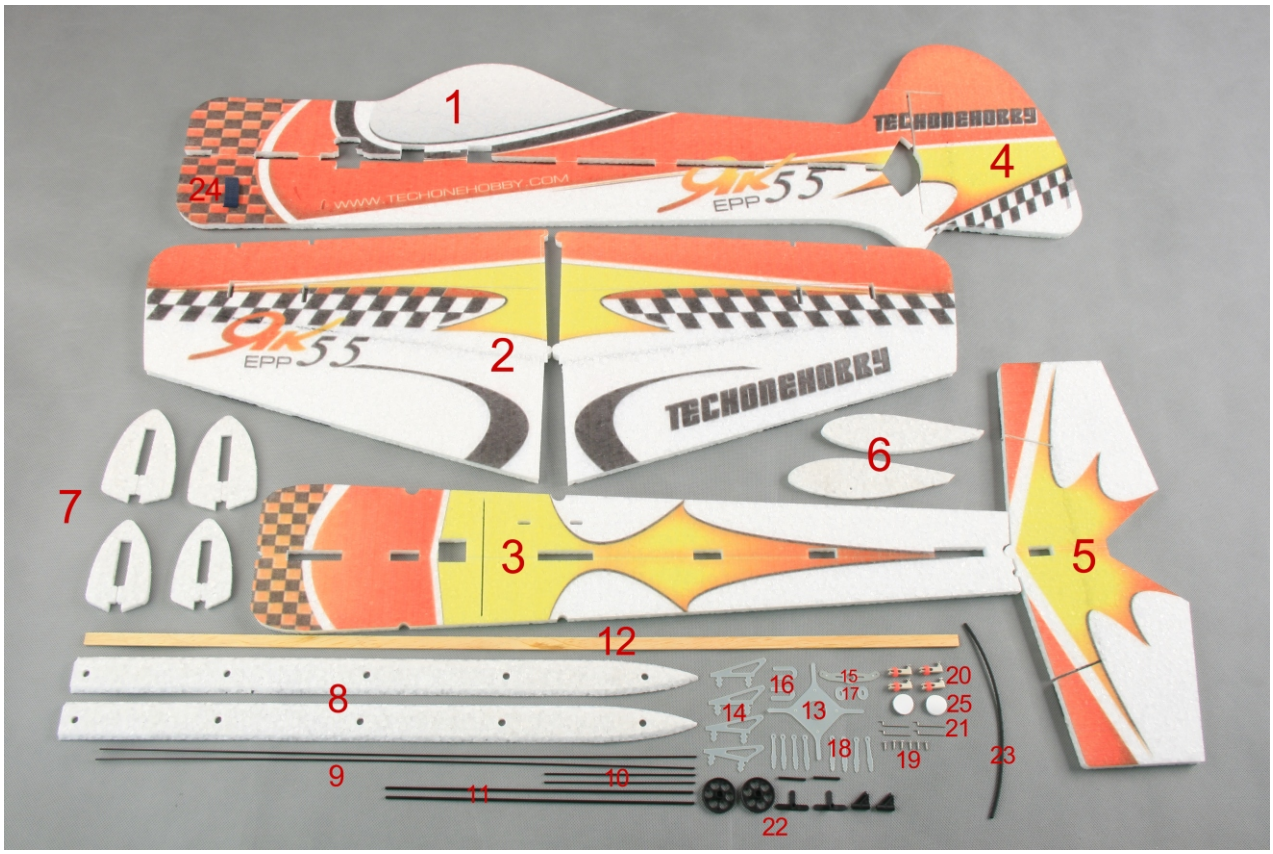
Cautions for flying
Large gyms, front lawns and parks make excellent flying areas. Make sure you have permission to fly and follow safety guidelines set by local authorities. The calmer the wind, the better!

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

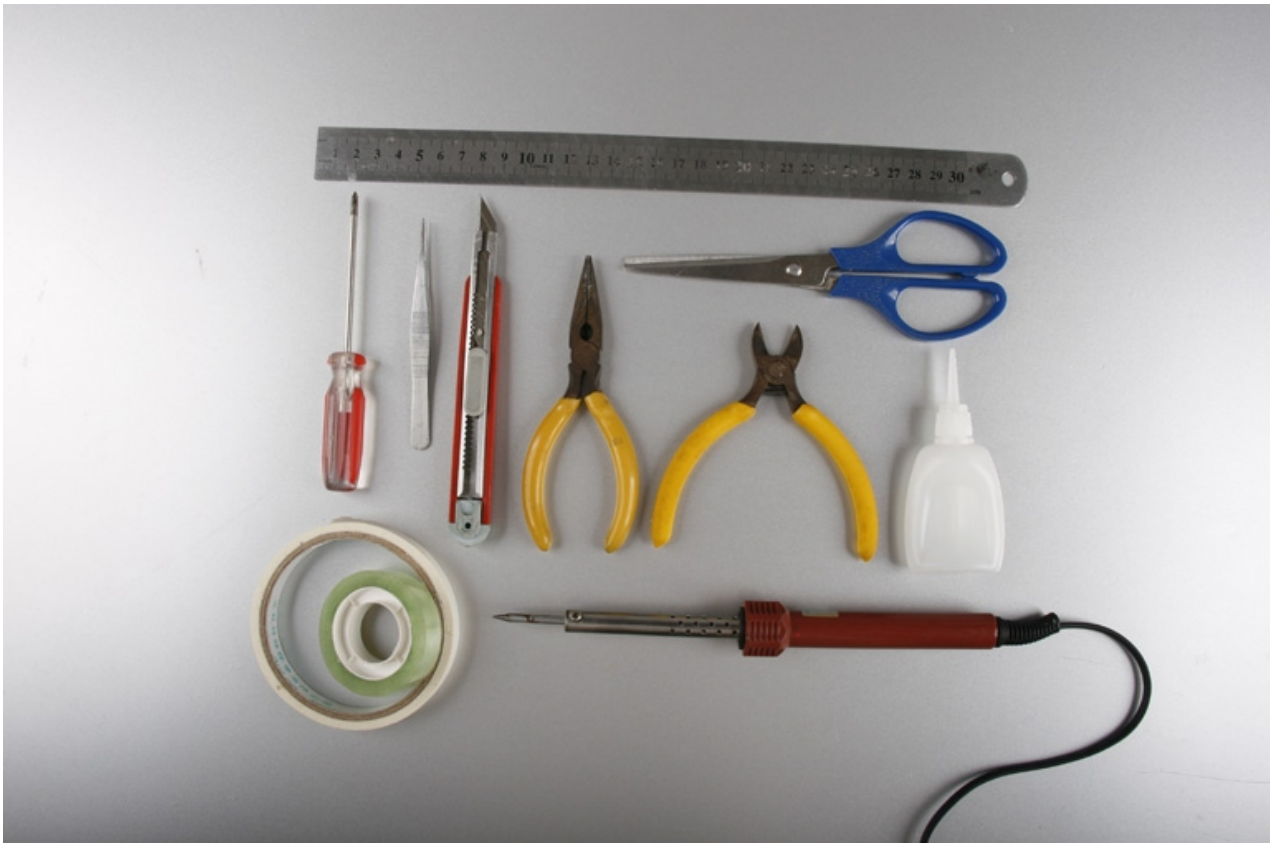
CG Position:
95-100mm from the leading edge of the wing.

Parts included in the packing



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

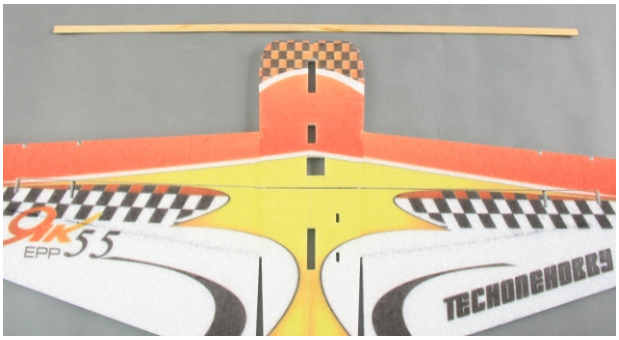
The items below are required for assembly



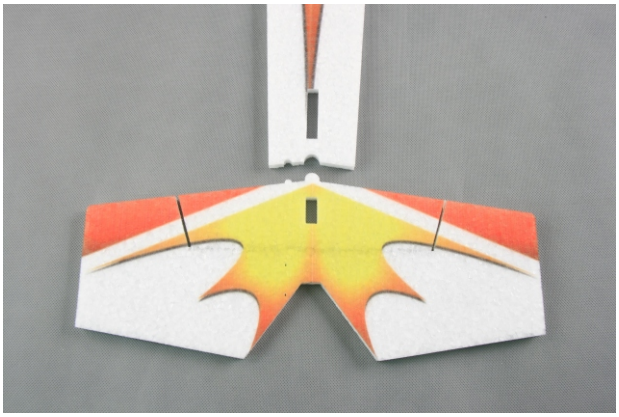
1.Glue left and right wing together as picture shown.

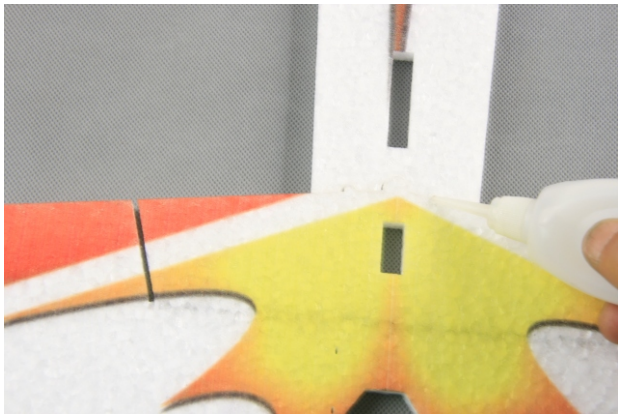
2.Wing reinforcing batten installation
Cut off the cutting seam on the wing.

Insert the batten into the slot and fix with glue.



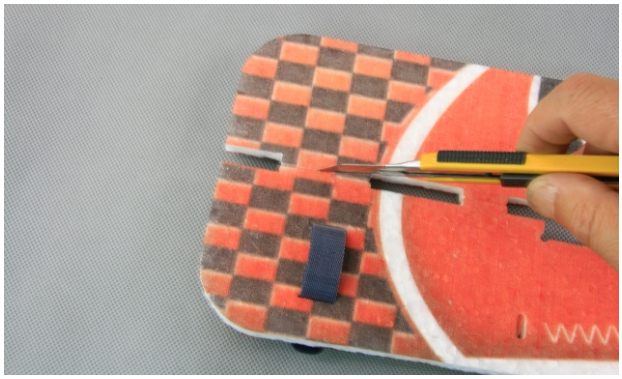
2.Stabilizer installation



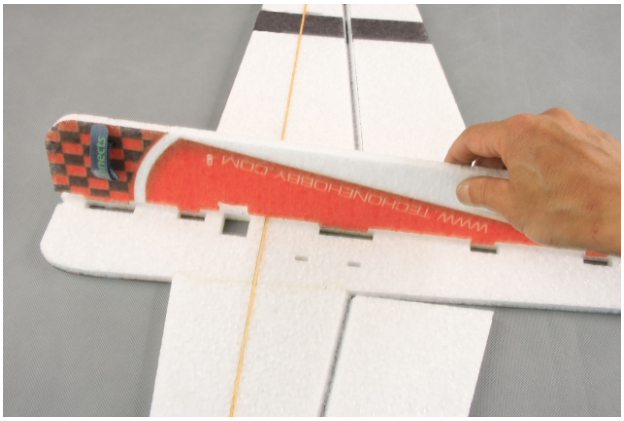


4.Lower vertical fuselage installation.

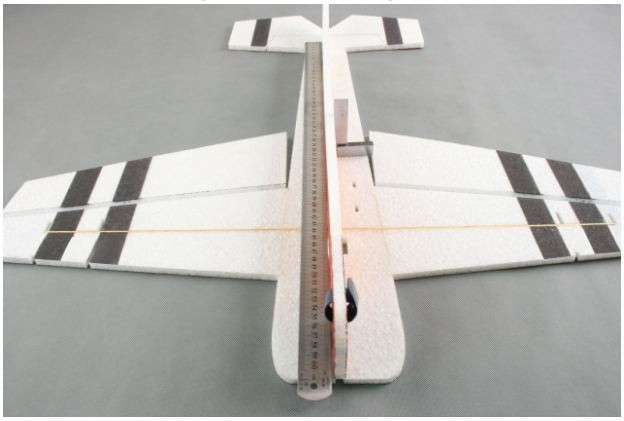
Cut off the joints between upper and lower vertical fuselage as picture shown.

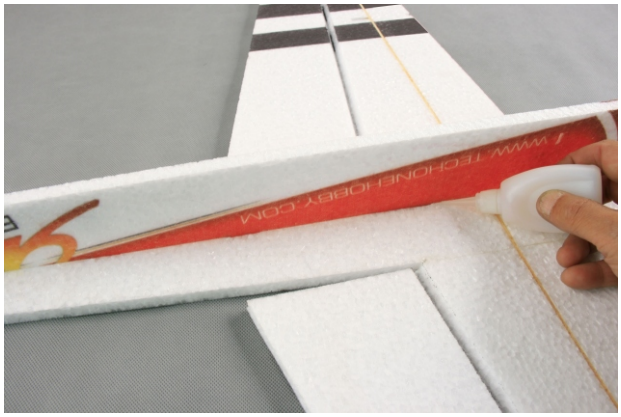


Install lower vertical fuselage on horizontal fuselage in place.

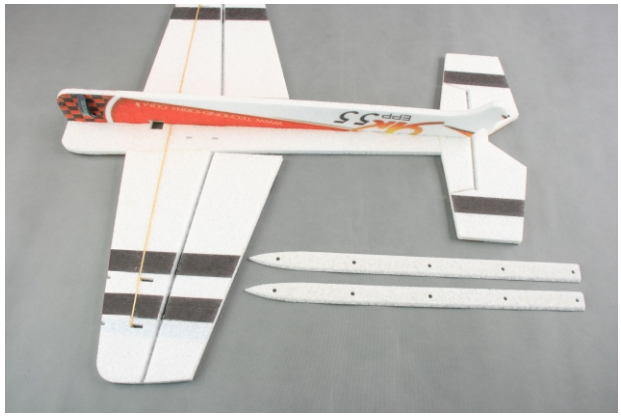


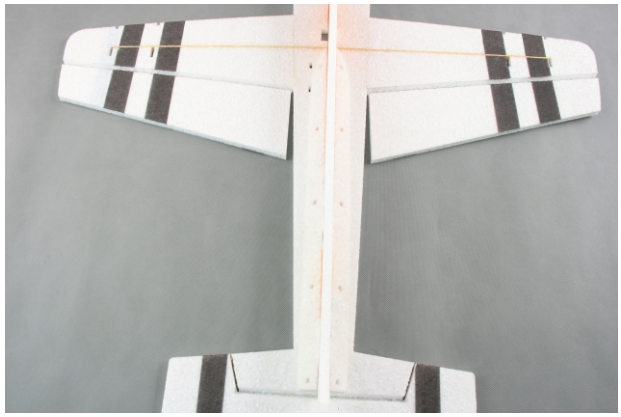
Make sure vertical fuselage is perpendicular to horizontal fuselage, then fix with glue.



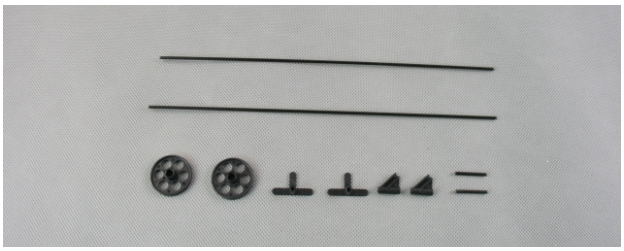


5.Fuselage reinforcing foam strip installation

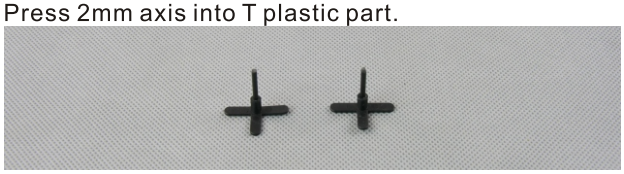




6.Landing gear assembly

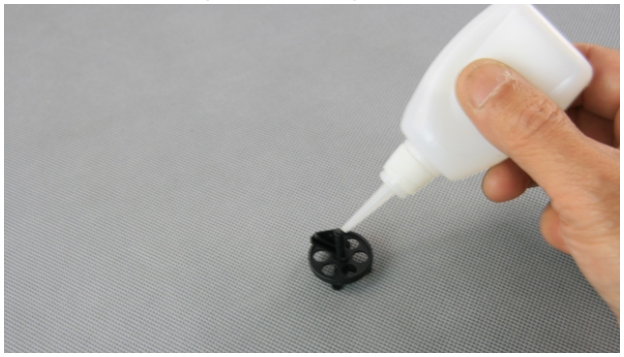


Press 2mm axis into T plastic part.



Then install wheel and triangle part as picture shown.

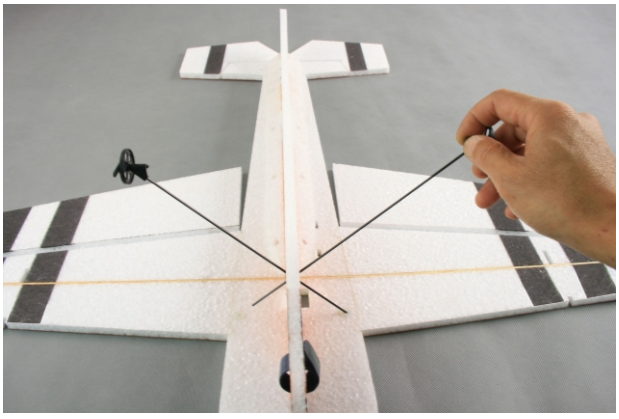
Fix axis and triangle part with glue.

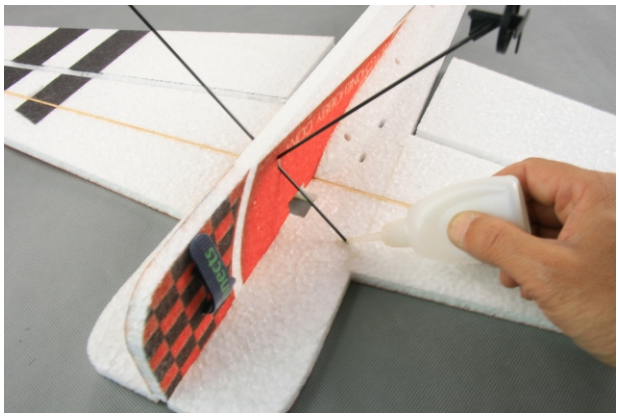


Tnsertφ2×220mm carbon fiber rod into the slot on triangle part, then fix with glue.

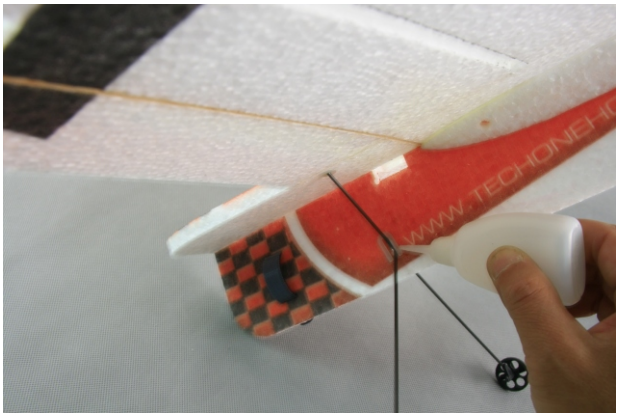
7.Landing gear installation

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





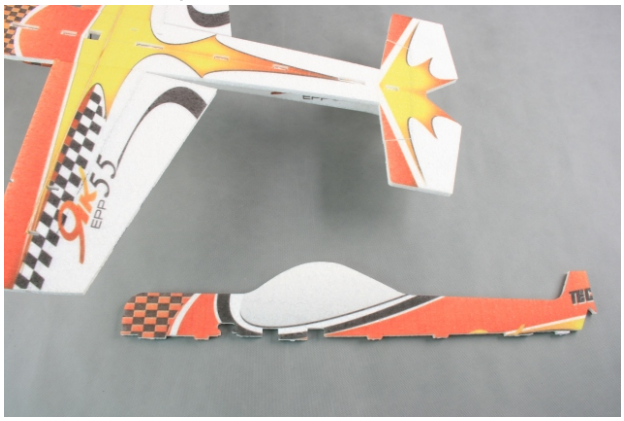
Place the U reinforcements on the joints of landing gear and lower fuselage as picture shown, then fix with glue.



8.Wheel cover installation

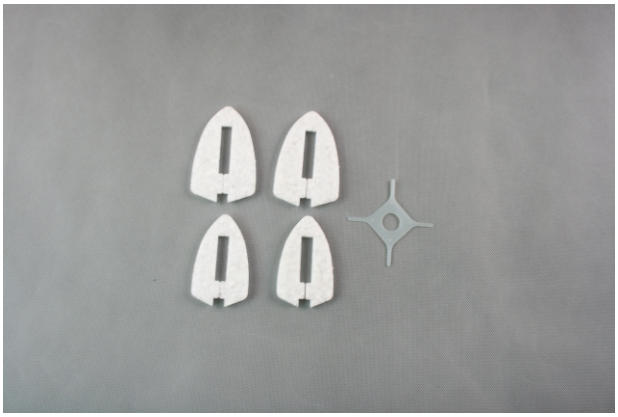
10.Rudder installation

9.Upper fuselage installation

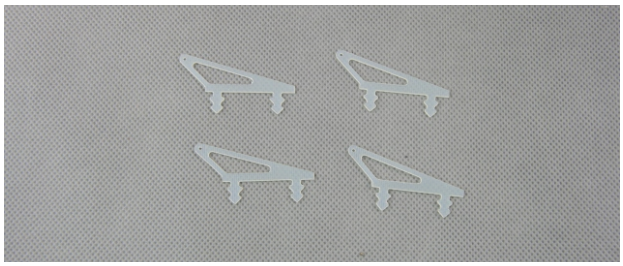


Insert upper fuselage into the slots on horizontal fuselage, then fix with glue.

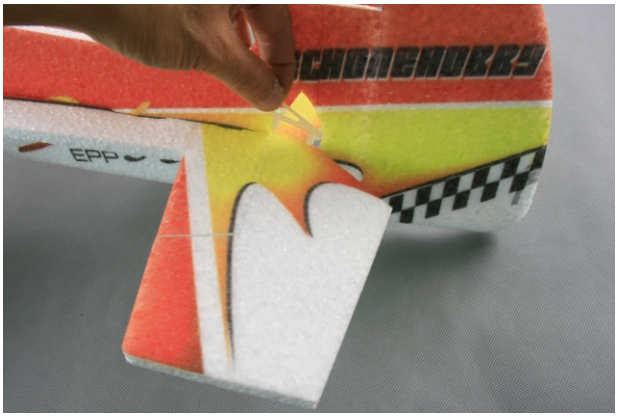
Wing fences and motor mount installation



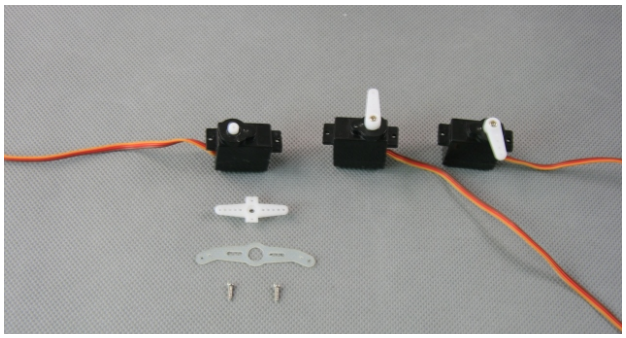
12.Control horns installation



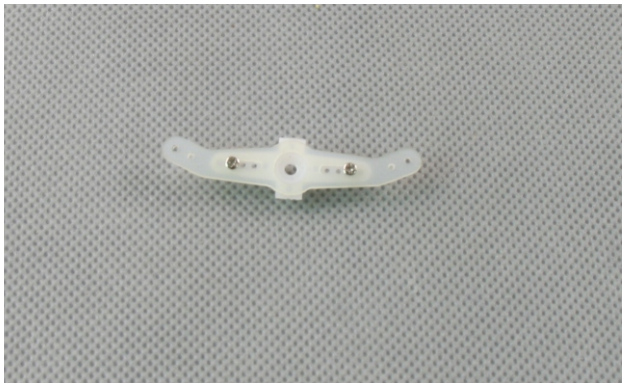
Separately insert 4pcs control horns into pre-reserved holes on rudder, elevator and ailerons, then fix with glue. Make sure the rudder control horn is on the right of rudder.



13.Servo and servo arm extension installation



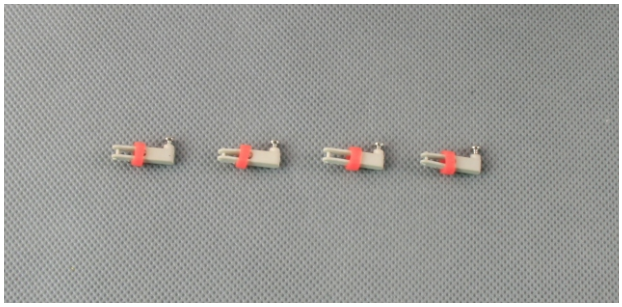
Use screws to fix servo arm extension on aileron servo arm.



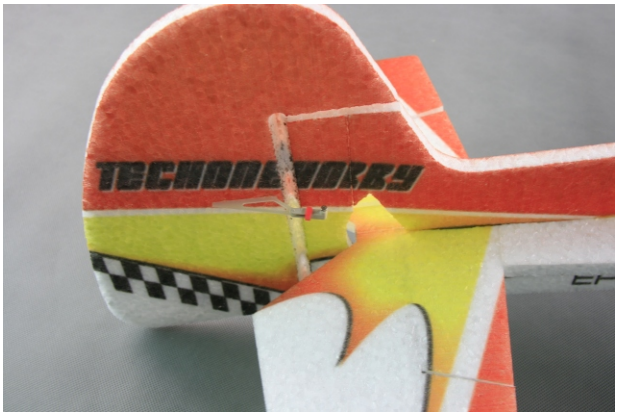
Put aileron servo inside the servo house that is the closest to the nose, and fix with glue, then install servo arm extension on the servo.

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

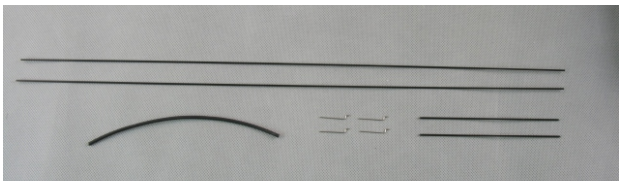
14.Plastic clip installation



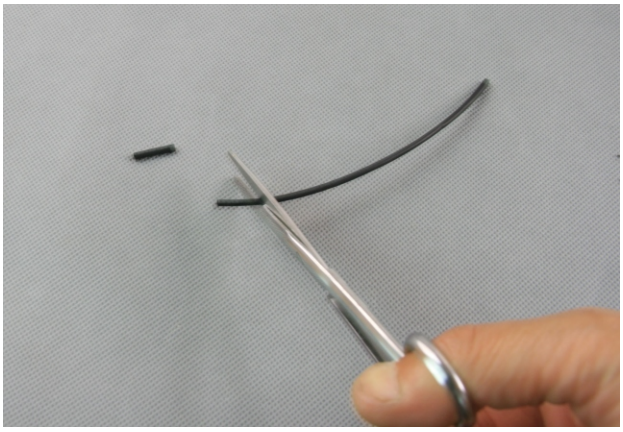
Separately install 4pcs plastic clip on 4pcs control horns.



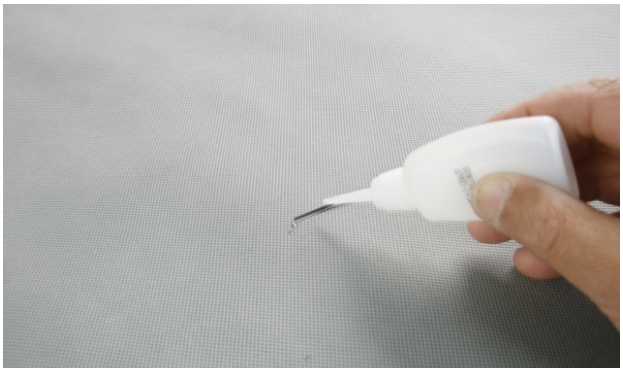
15.Pursh rod installation

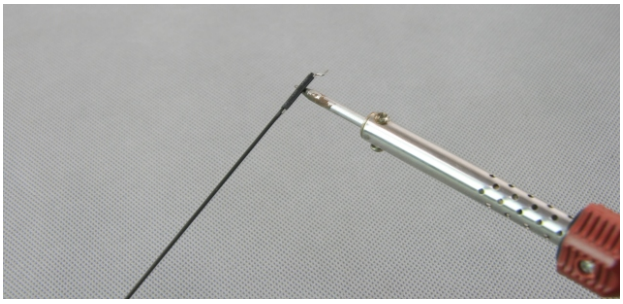


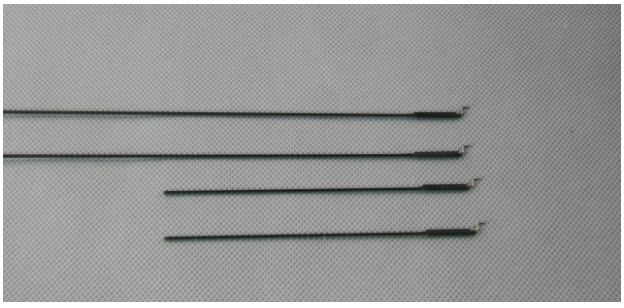
Cut 4pcs 15mm length shrink tubes.



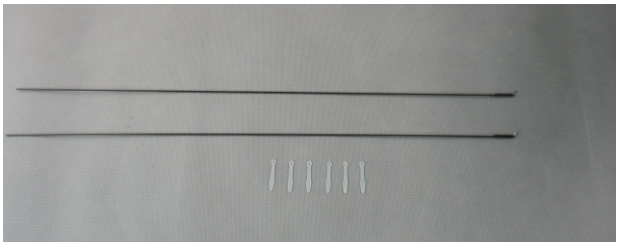
Glue Z bend to one end of push rod, and put on shrink tube, then use iron to fix.

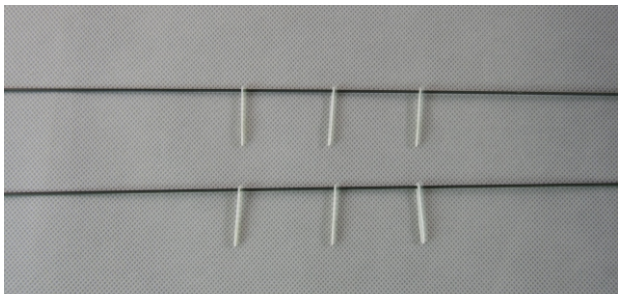




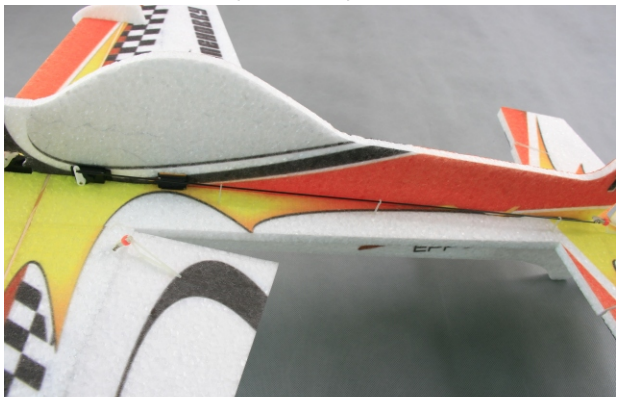


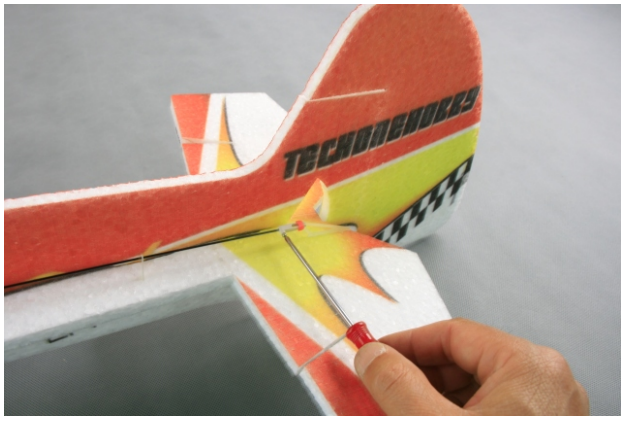
Put on 3pcs knightheads each on rudder and elevator push rod.



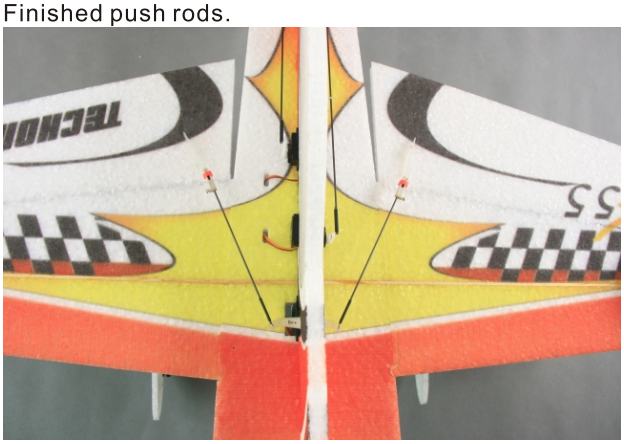


Connect one end with Z bend to the hole on servo arm, and insert knightheads into pre-reserved holes on vertical fuselage, then connect another end of push rod to the hole on plastic clip. Make sure servo arm, rudder & elevator are in neutral, then adjust the height of knightheads to make push rod in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

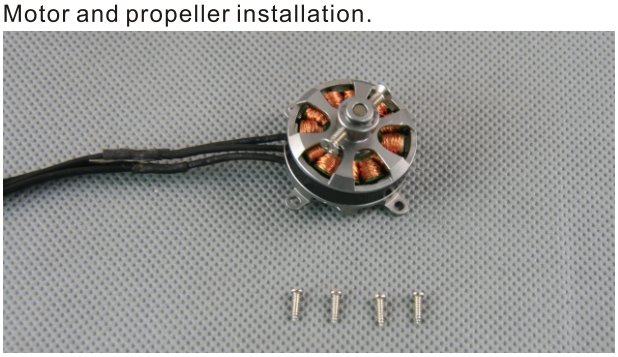


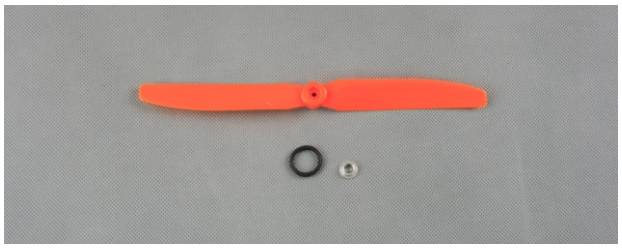


Finished push rods.



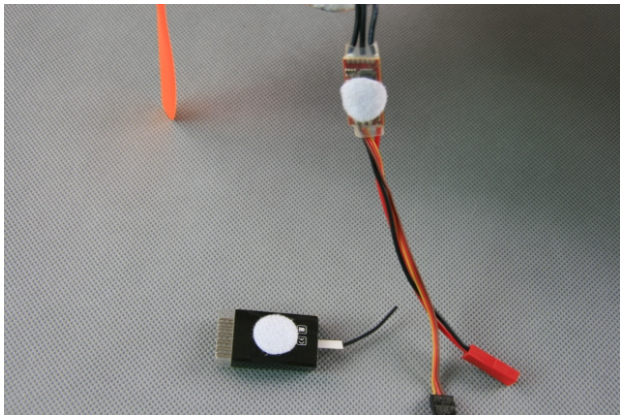
Motor and propeller installation.

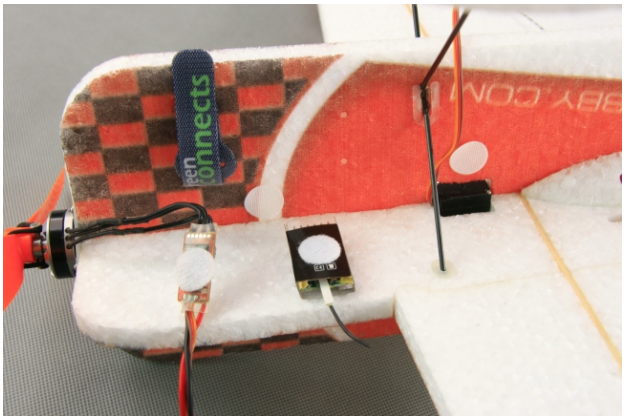


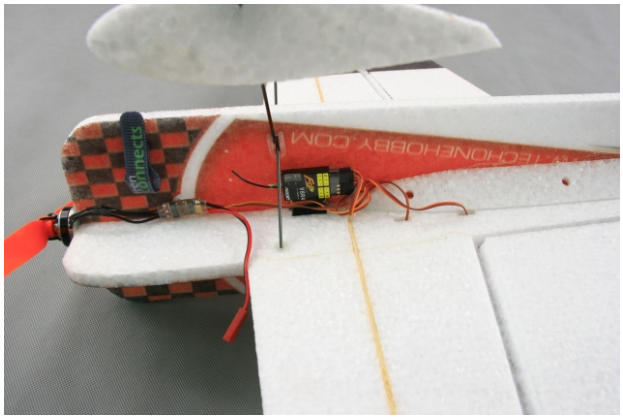


17.Receiver and battery installation.

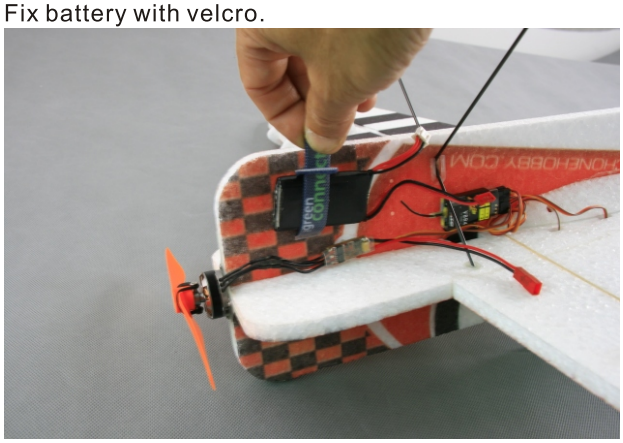
Stick one side of round velcro on receiver and ESC, another side on proper places on fuselage, then fix receiver and ESC by velcro.







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.