TECHone™

Before operating this unit, please read these instructions completely.

MXS EPP 3D

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:845mm (33.3in.)
Wingspan: 800mm (31.5in.)
Flying Weight: 180-195g (with battery)
Motor : AS2204 KV1700 or AT2206KV1500
ESC :10Amp
Propeller:GWS 8040 or 9050
Servos:6- 8g micro servo *3pcs
Radio:4/more channel
Battery:7.4v 2S 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!

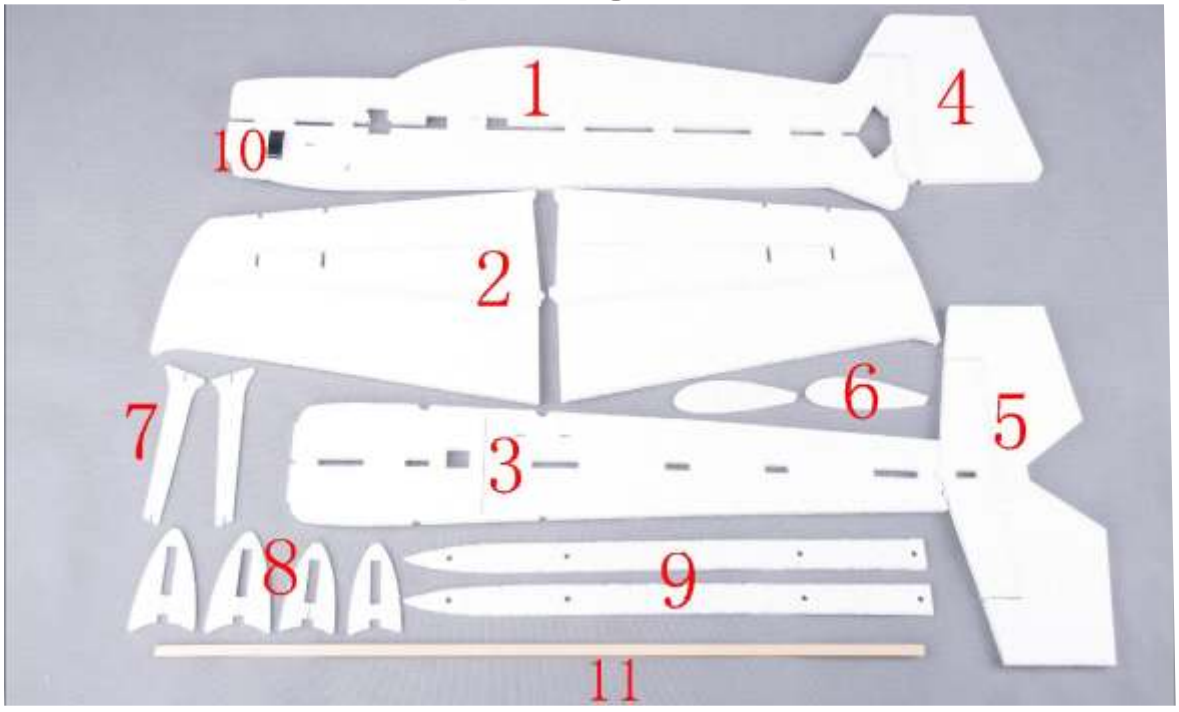
Note for Storage
please disconnect the lipo packs when finished flying
Do not press or crush the airplane when storing
The best way to store is to hang the airplane to keep the control surface rigid

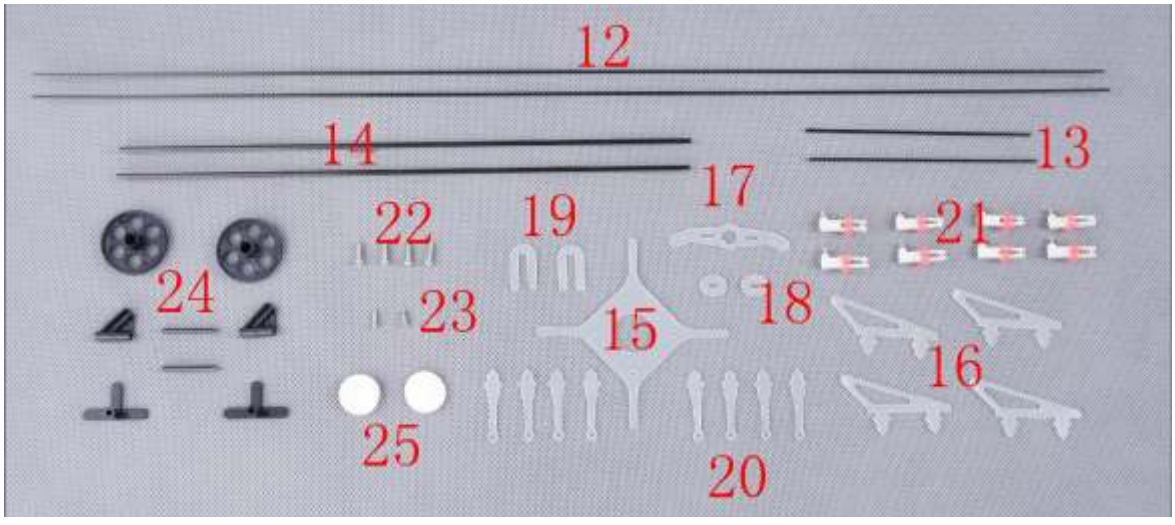
Recommended Flying Setup

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

Parts included in the packing

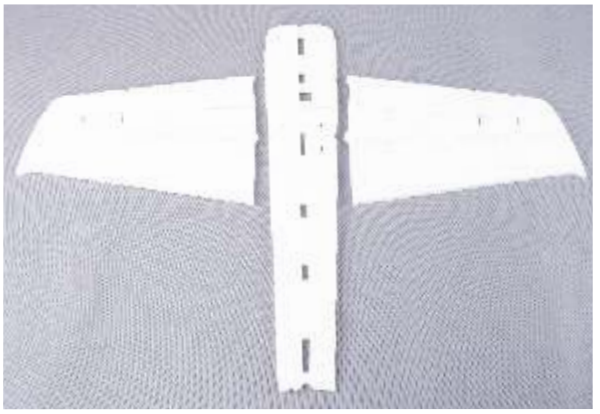


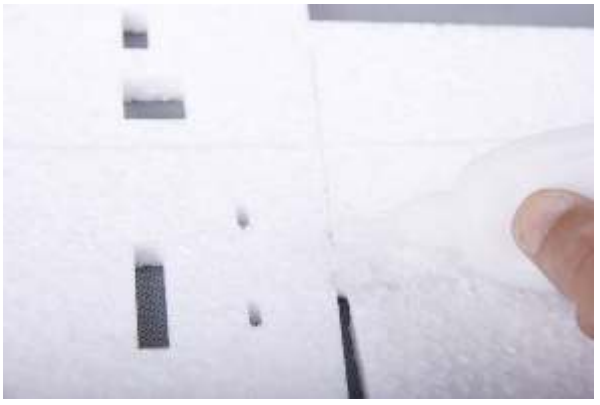


1. Vertical fuselage	1pc	15.Motor mount	1pc
2.Wing	1pc	16.Glass fiber control horn	4pc
3.Horizontal fuselage	1pc	17. Servo arm extension	1pc
4.Rudder	1pc	18. Round doubler	2pc
5.Stabilizer	1pc	19. U reinforcement	2pc
6.Wheel cover	2pc	20. Push rod knighthead	8pc
7.Landing gear baffle	2pc	21. Plastic clip	8pc
8.Wing fences	4pc	22. Self-tapping screw 2*8	4pc
9.Fuselage reinforcing foam strip	2pc	23.Self-tapping screw 1.4*6	2pc
10.Nylon velcro band	1pc	24.Wheel	1pc
11.Wing reinforcing batten	1pc	25.Round velcro	2pc
12.Elevator & rudder push rod	2pc		
13.Aileron push rod	2pc		
14.Landing gear carbon fiber rod	2pc		

The items below are required for assembly

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

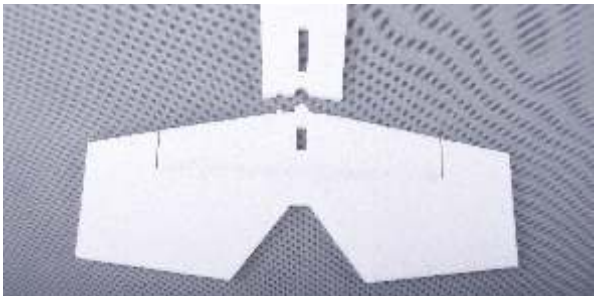


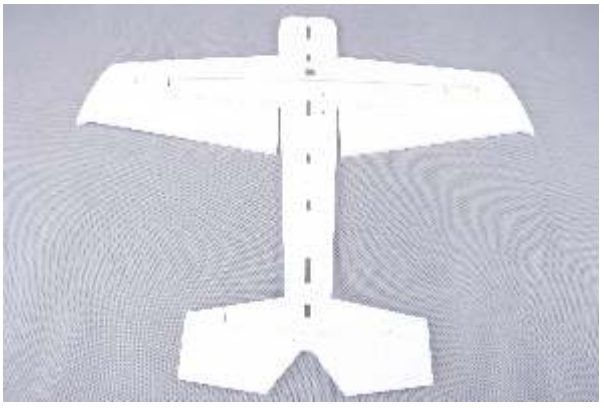


2.Wing reinforcing batten installation
Cut off the cutting seam on the wing.

Insert the batten into the slot and fix with glue.

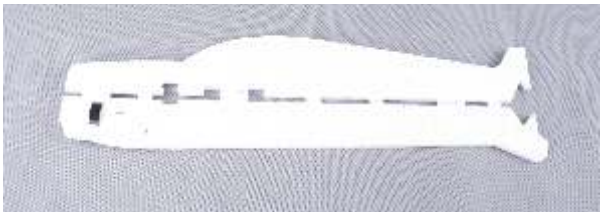
3.Stabilizer installation

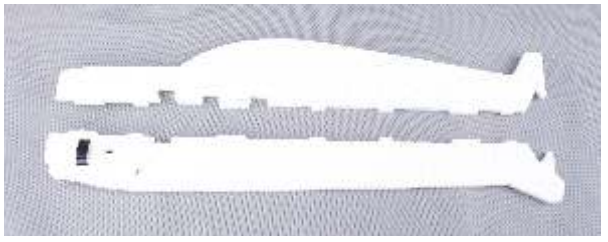




4.Lower vertical fuselage installation.

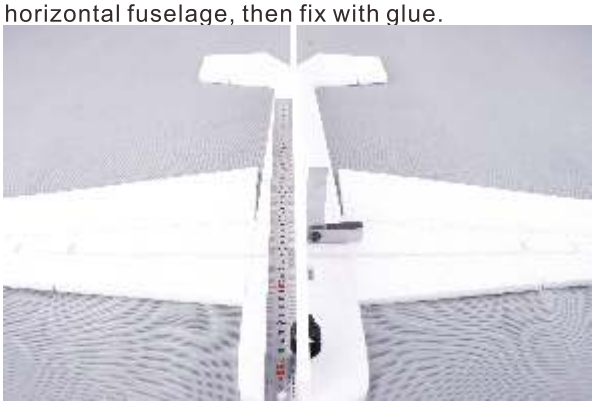
Cut off the joints between upper and lower vertical fuselage as picture shown.





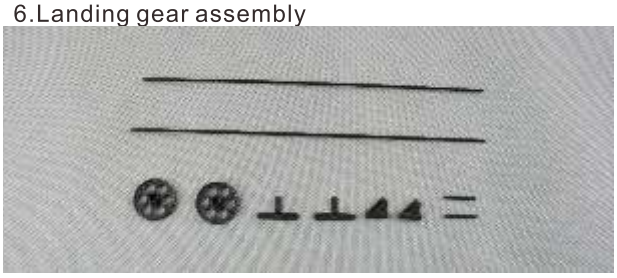
Install lower vertical fuselage on horizontal fuselage in place.

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

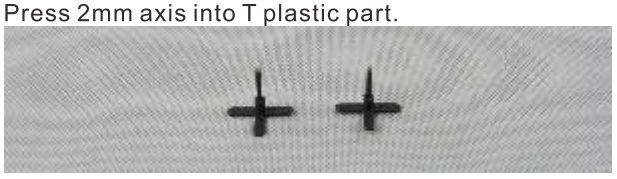


5.Fuselage reinforcing foam strip installation

6.Landing gear assembly

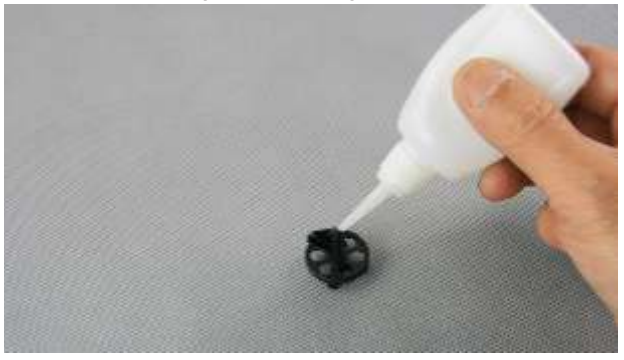


Press 2mm axis into T plastic part.



Then install wheel and triangle part as picture shown.

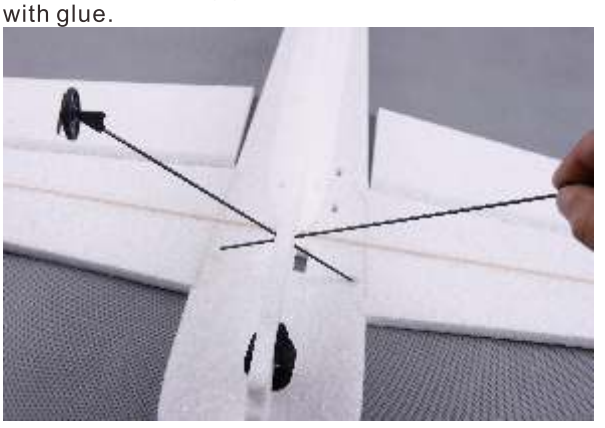
Fix axis and triangle part with glue.

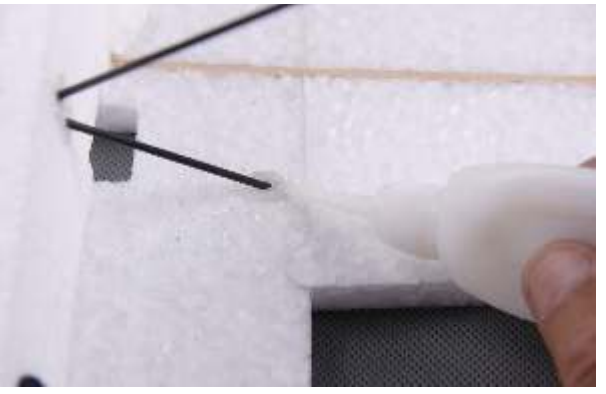


Tnsertφ2×220mm carbon fiber rod into the slot on triangle part, then fix with glue.

7.Landing gear installation

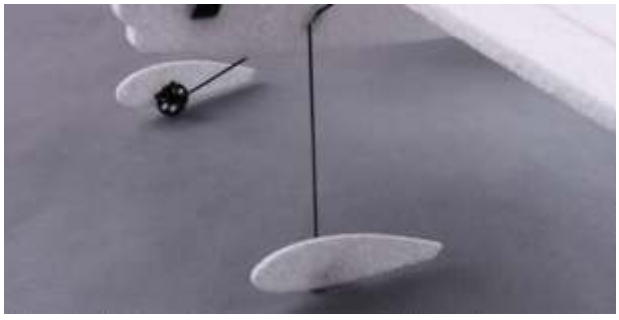
Glue round doublers on pre-reserved holes on wing, then install landing gear as picture shown and fix with glue.

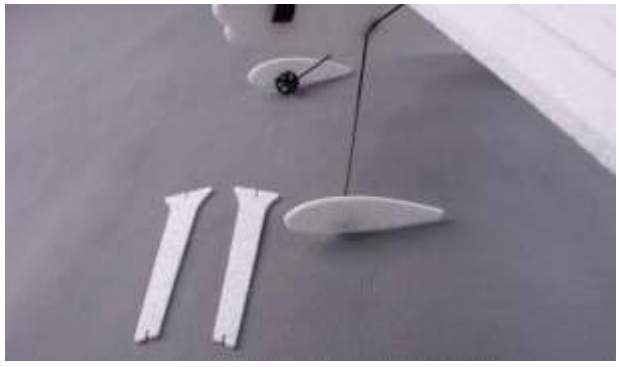




Place the U reinforcements on the joints of landing gear and lower fuselage as picture shown, then fix with glue.

8.Landing gear baffle and wheel cover installation



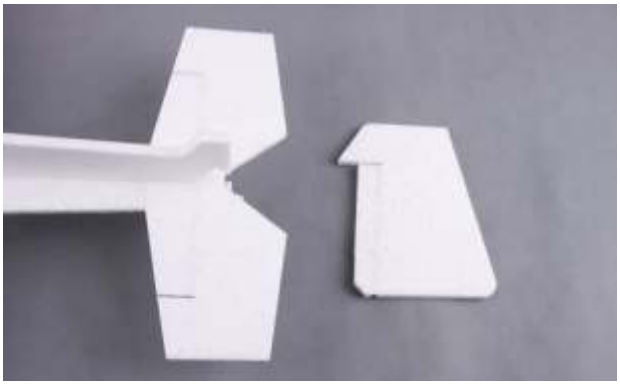


Bevel the top end of baffle at 45 degree, then glue to gear carbon rod.

9.Upper fuselage installation

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

10.Rudder installation

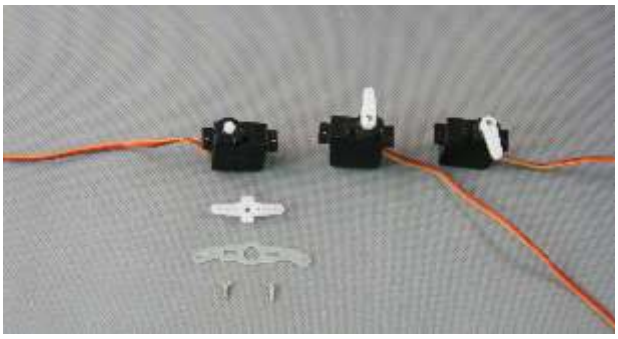


11.Wing fences and motor mount installation

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

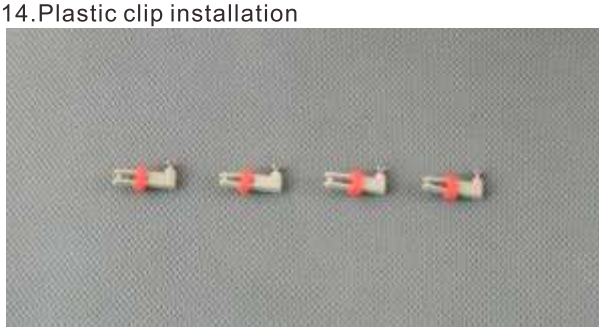


Use screws to fix servo arm extension on aileron servo arm.

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.

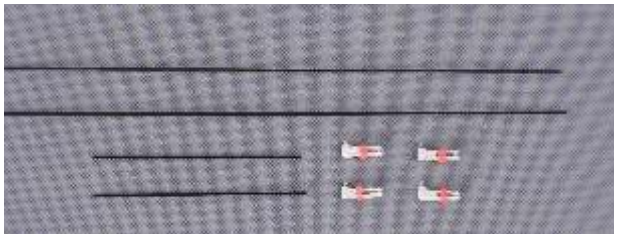
Put elevator and rudder servo into the middle and rear servo house, then fix with glue.

14.Plastic clip installation



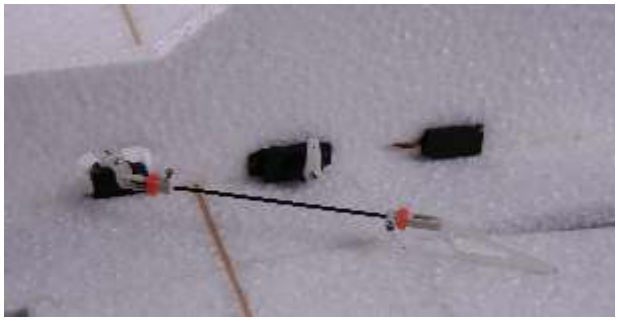
Separately install 4pcs plastic clip on 4pcs control horns.

15.Pursh rod installation

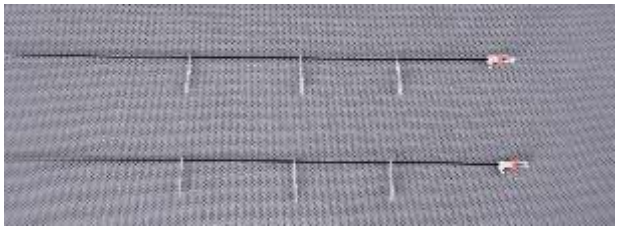


Separately install each clip on each push rod.

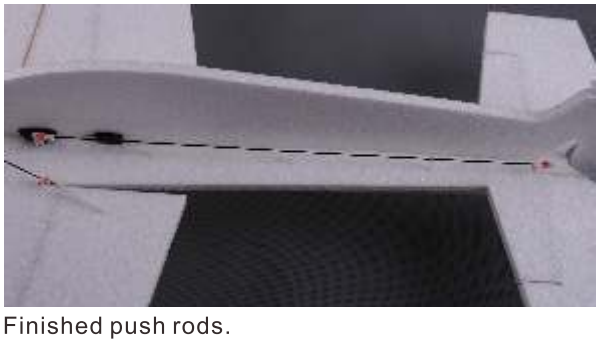
Connect aileron clip to the aileron servo arm, and another end with clip to the control horn.



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

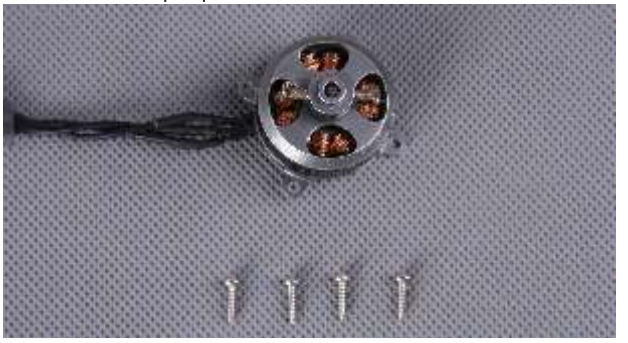


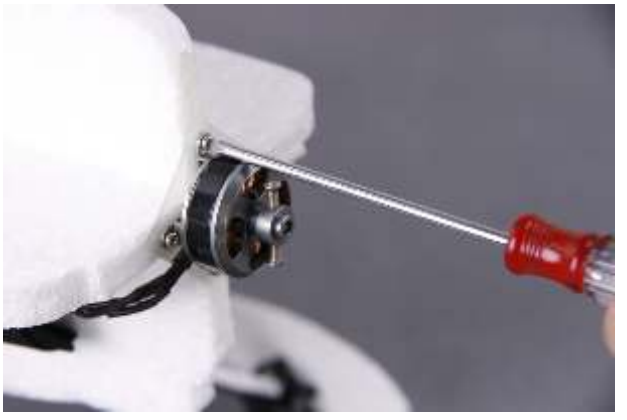
Rudder and elevator push rod installation:
Connect one end with clip to the hole on servo arm, and insert knightheads into pre-reserved holes on vertical fuselage, then connect another end of push rod to the clip on control horn. Make sure servo arm, rudder & elevator are in neutral, then adjust the 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.



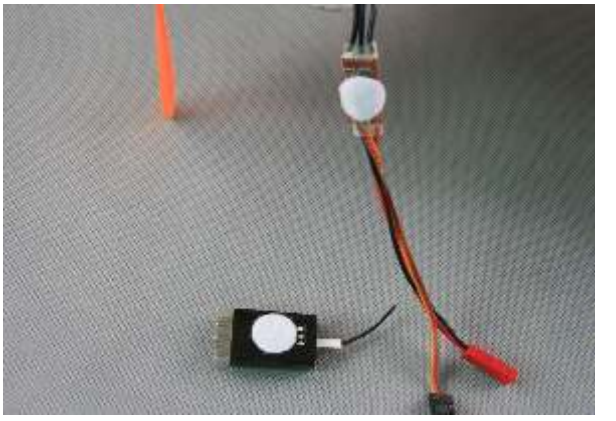
Finished push rods.

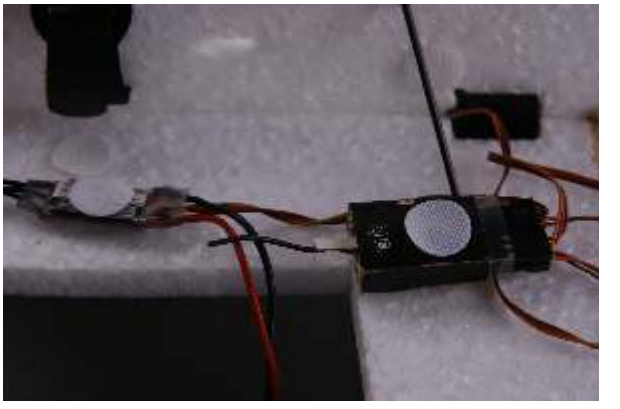
16.Motor and propeller installation

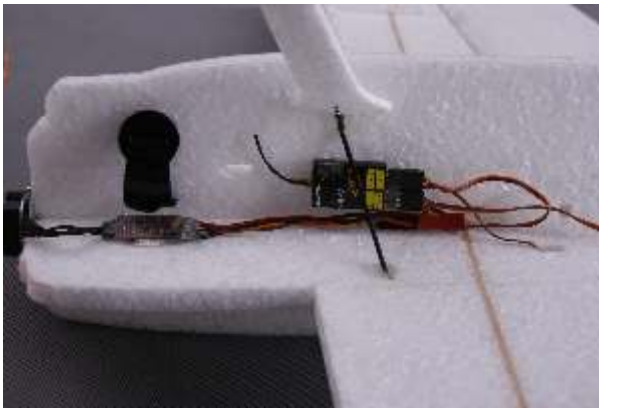




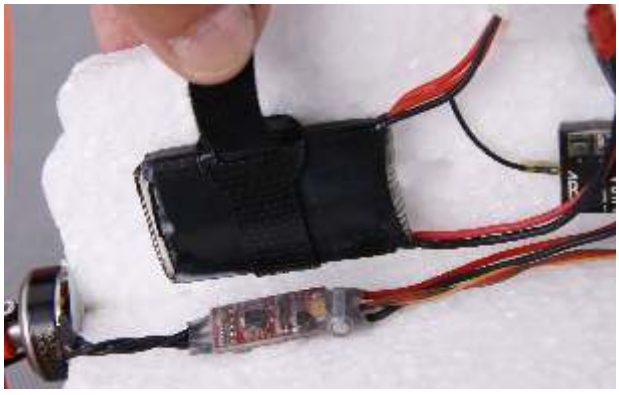
17.Receiver and battery installation
Stick one side of round velcro on receiver and ESC, another side on proper places on fuselage, then fix receiver and ESC by velcro.







Fix battery with velcro.



All installation finished

A perfect MXS-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.