Before operating this unit, please read these instructions completely.

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EPP-FPV

INSTRUCTIONS

Features:

Designed especially for FPV (First Person View) camera flight!

This is a true FPV plane thats easy to build and comes packed with common sense FPV must-haves such as rear mounted servos for the elevator and rudder to help counter balance the additional radio gear, rear servos can also be moved up and down the tails Carbon Fiber shaft to adjust CG. The narrow fuselage helps glide rates for longer flight times and yet it still has a large area for and aft of the CG to move the battery for better balancing when using heavy camera/Tx gear.

Rear mounted 10inch pusher motor-mount keeps motor and esc away from the camera to reduce noise.

EPP foam makes the plane very resistant to crashes and rough landings.

The EPP-FPV glider has a 1.8m wingspan for higher, longer flight times with a wide range of camera equipment.

The HobbyKing EPP-FPV has 4 channels (Ail, Rud, Elev, Thr) for agile performance and is reinforced with 2 CF spars on the main wing, a CF tail boom and CF elevator spar plus the ailerons have flat CF rods for stifness during fast turns or dives.

The HobbyKing EPP-FPV can take any number of batteries however we recomend a 2200~3500mAh 2S pack for long flight times and good CG balance.

Spec:

Fuselage length: 1320mm

WingSpan: 1800mm

ARF Weight: 900-1200g

Required:

Motor: 2217 1400kV or 2814 1000kv Brushless outrunner

Propeller: 10x6 slow flyer

Battery: 11.1V 3S 1500~2200mah 20C

Servo: 4 x 9g

ESC: 40A

Your own TX & RX

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Do not fly under the conditions 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

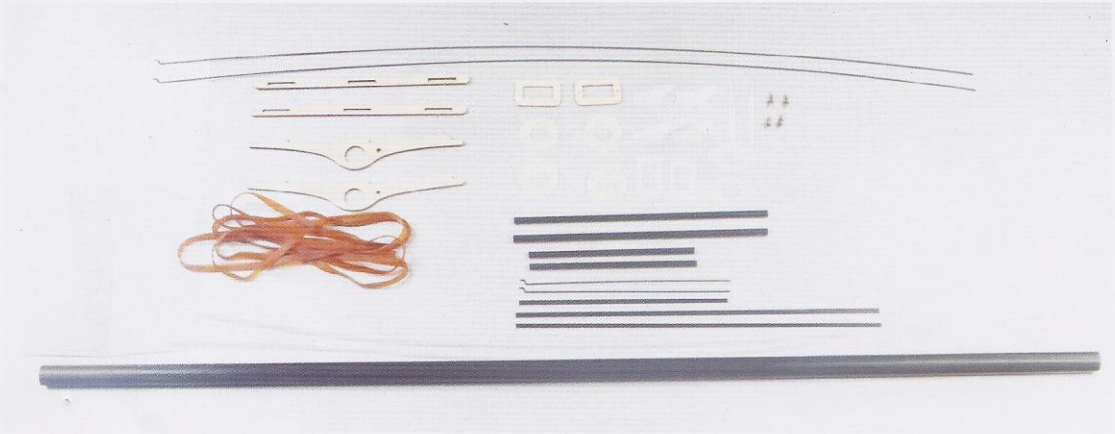
Cautions for flying
front lawns and parks make excellent flying areas. Make sure you have permission to fly and follow safety guidelines set by local authorities. The calmer the wind, the better!

Recommended Flying Setup
Max servo travel of aileron: 25degrees up and 25degrees down（30mm）
Max servo travel of elevator:20 degrees up and 20degrees down（20mm
Max servo travel of rudder: 20degrees left and 20 degrees right （20mm）

CG Position:
100-120mm from the leading edge of the wing,.

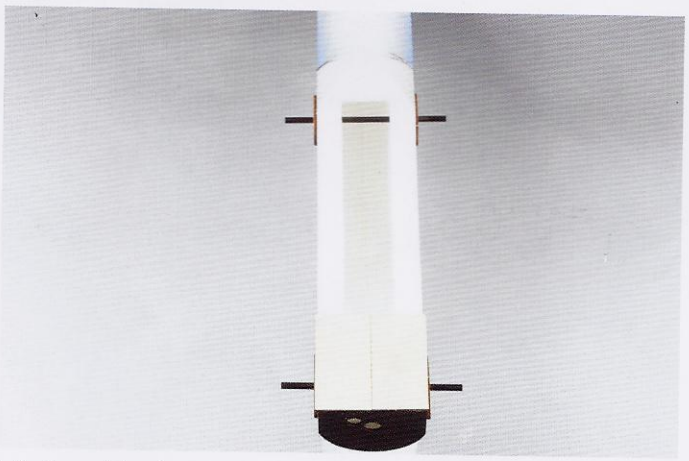
Body parts included in the packing

1	Fuselage	1pcs
2	Canopy	1pcs
3	Wing with aileron (right and left)	2pcs
4	Elevator (stabilizer)	1pcs
5	Vertical fin	1pcs



Horizontal tail mounting rack	1set	
Control rod guide pins	2pcs	
Servo mount	2sets	
Aileron servo mount	2 pcs	
Pushrod connector	4pcs	mental adjuster
Control arm	4pcs	
Wing bolt	2pcs	diameter.6mm*200mm(L)
Rubber band	8pcs	
Rubber band bolt	2pcs	diameter.5mm*130mm(L)
Plastic tube	2pcs	
Z wire （direction and lifting ）	2pcs	diameter.1.2mm*680mm(L)
Z wire （aileron）	2pcs	diameter.1.2mm*160mm(L)
Tail tube of the fuselage	1pc	diameter.16mm*800mm(L)
Carbon strip	2pcs	1*4* 280mm
Carbon strip	1pc	1*4*160mm
Abs board	2pcs	

The items below are required for assembly

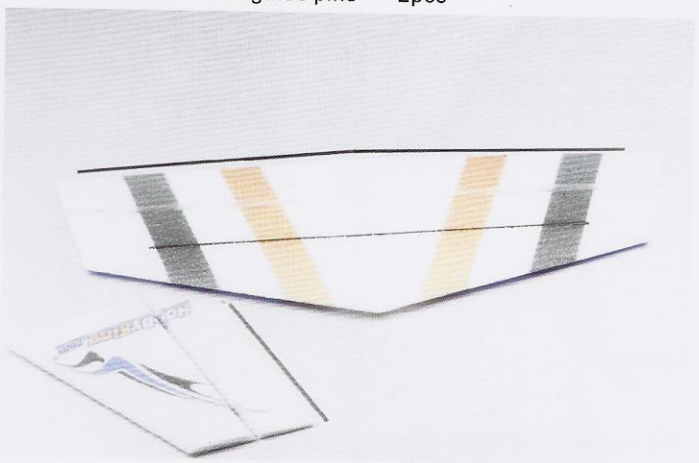


1.Splice rubber band bolt 2pcs diameter.5mm*130mm(L)

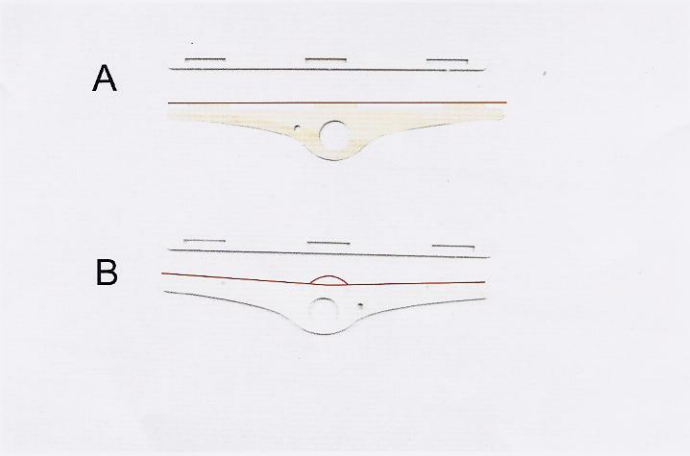
2.Splice tail tube of the fuselage 1pc diameter.16mm*800mm(L)

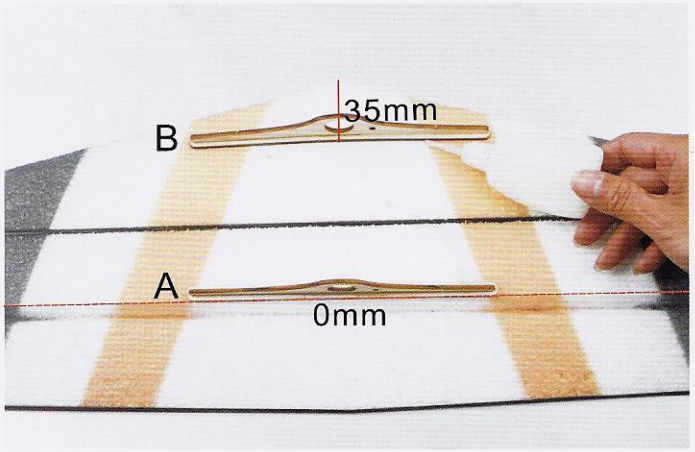
3.Splice two sets servo mounts .
Attention: do not bond too solid of the servo mount and the tail tube so that the servo mount can move freely on the tail tube, and adjust the plane's key point.

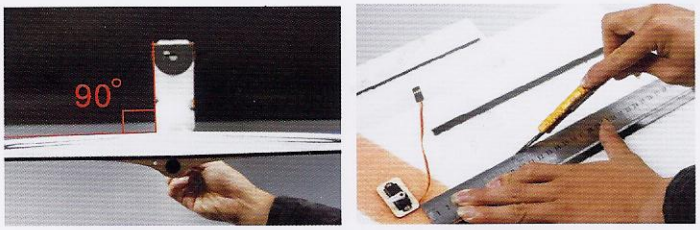
4.Install the control rod guide pins 2pcs



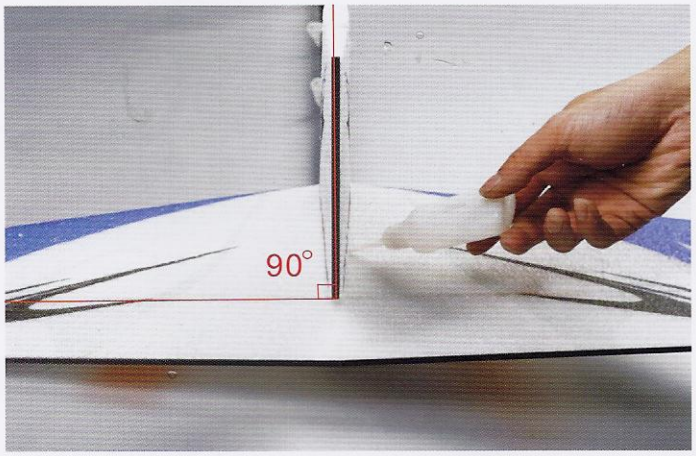
5.Stick carbon plate of the servo surface.



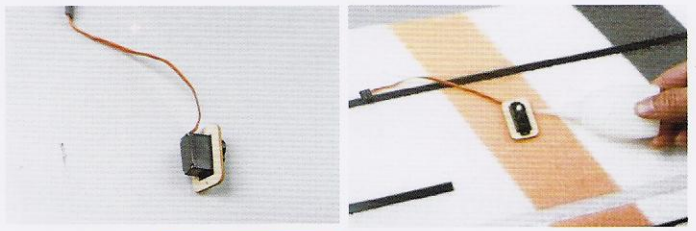


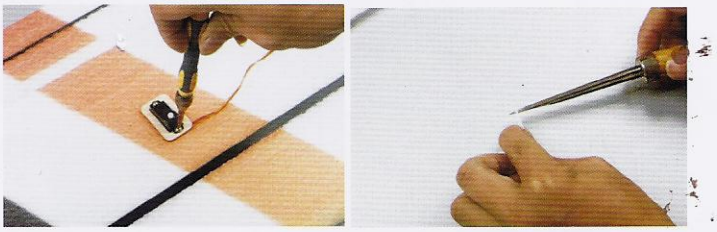


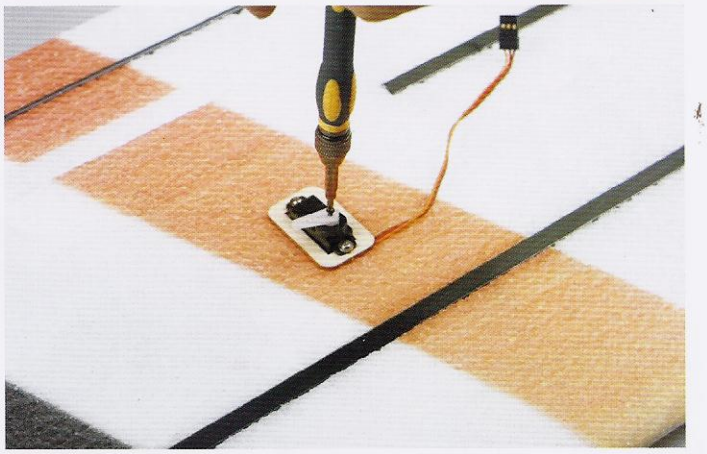
6.Stick the horizontal tail mounting rack 1 set



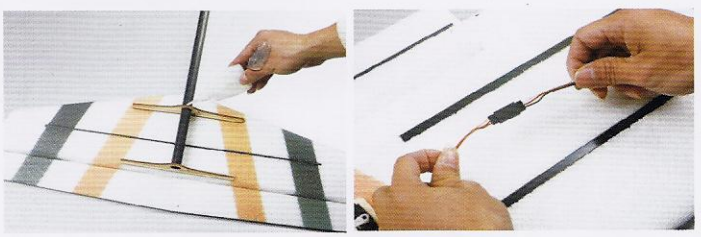
7.Bond the verticle fin .

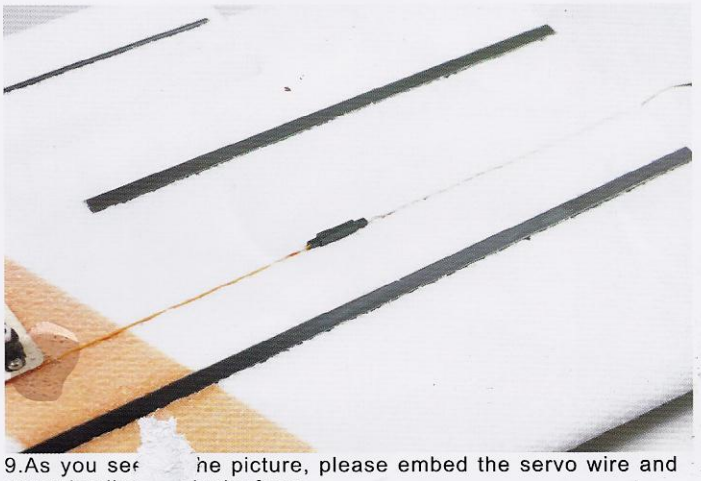




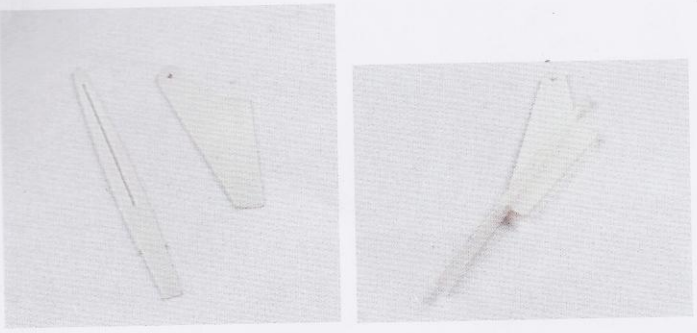


8.Install the servo on aileron.

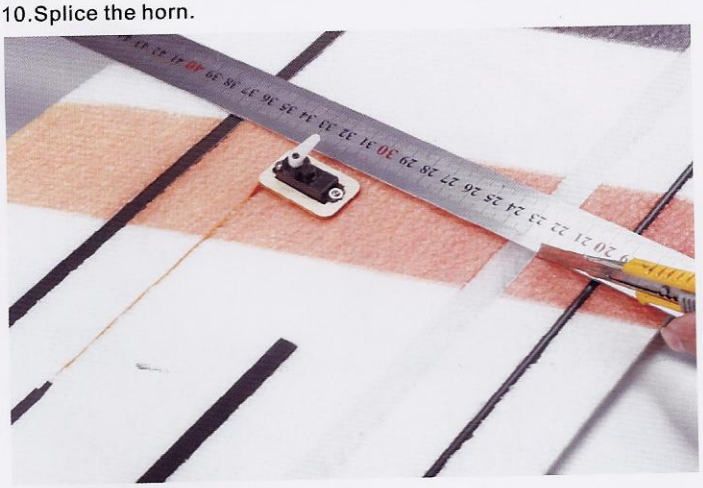




9.As you see the picture, please embed the servo wire and extention line inside the foam.

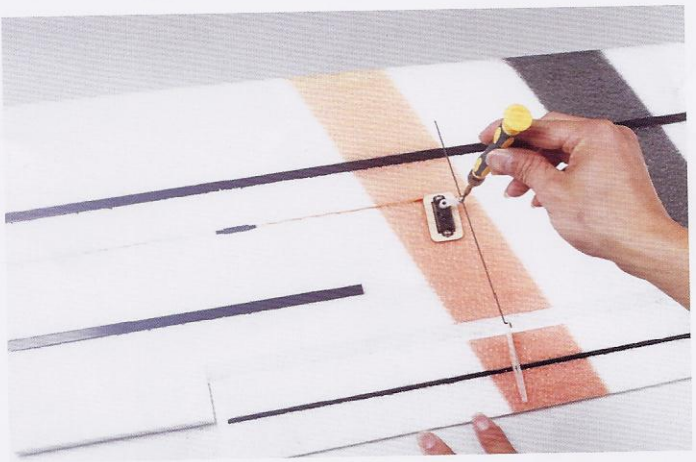


10.Splice the horn.

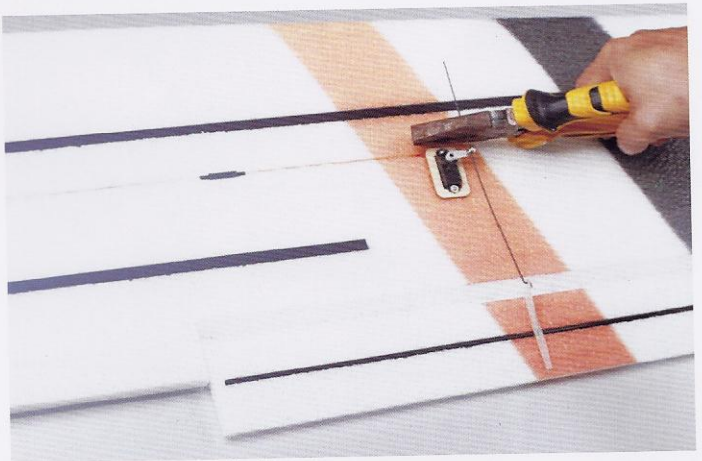


11.Stick the horn inside the aileron's slot.

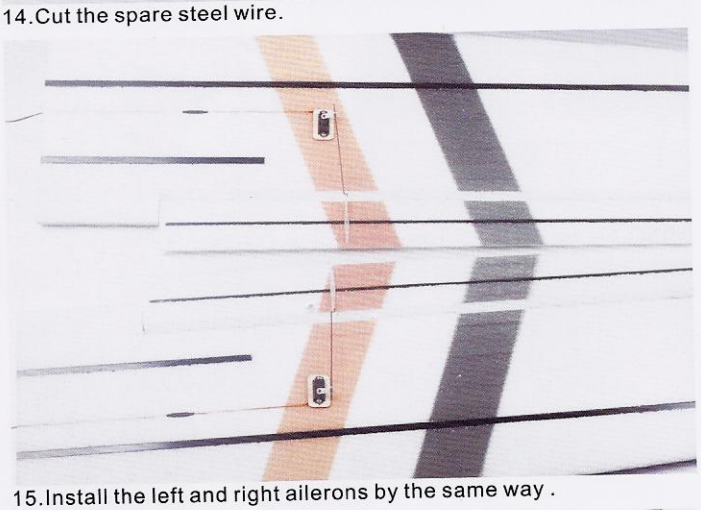
12.Install pushrod connector .



13.Install Z wire (aileron) diameter.1.2mm*160mm(L)

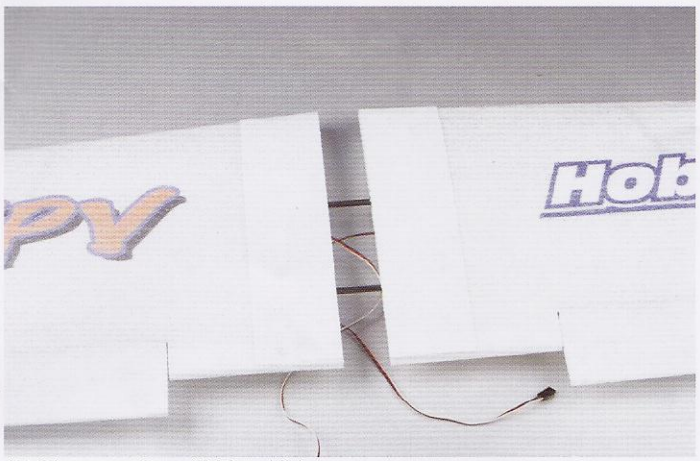


14.Cut the spare steel wire.



15.Install the left and right ailerons by the same way .

16.Splice Abs board to left and right wings . 2pcs

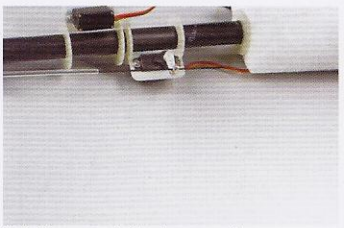


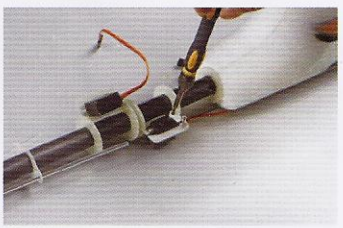
17.Diameter.6mm*200mm(L)
Connected two wings by wing bolt.

18.Stick the rudder horn .

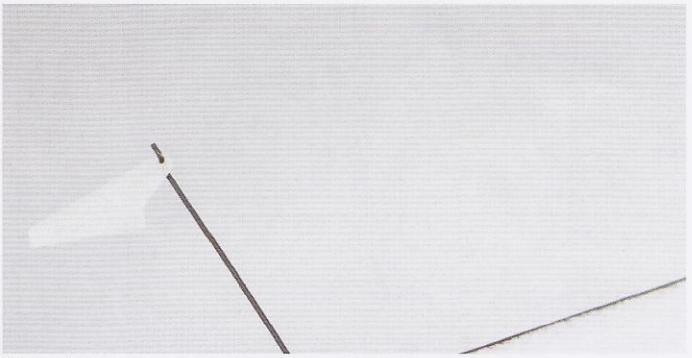
19.Install plastic tube 2pcs

20.Diameter.1.2mm*680mm(L)
Install Z wire (direction and lifting) .

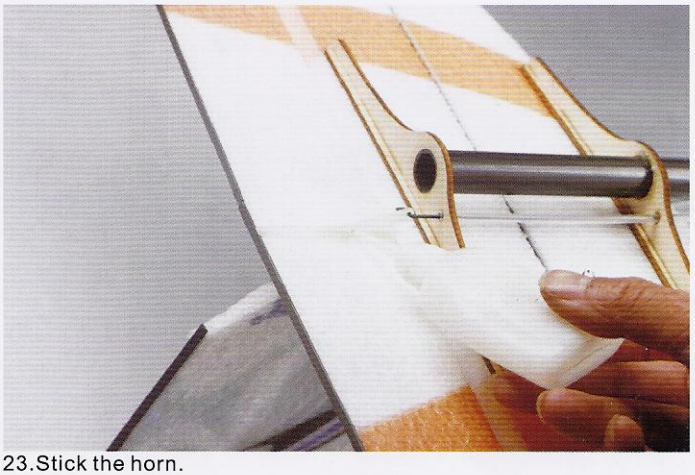




21.Connect Z wire on the servo.

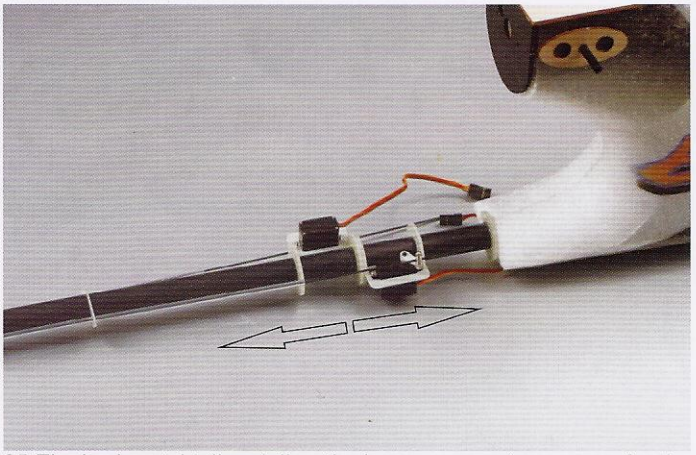


22.Install horizontal tail's horn on Z wire.



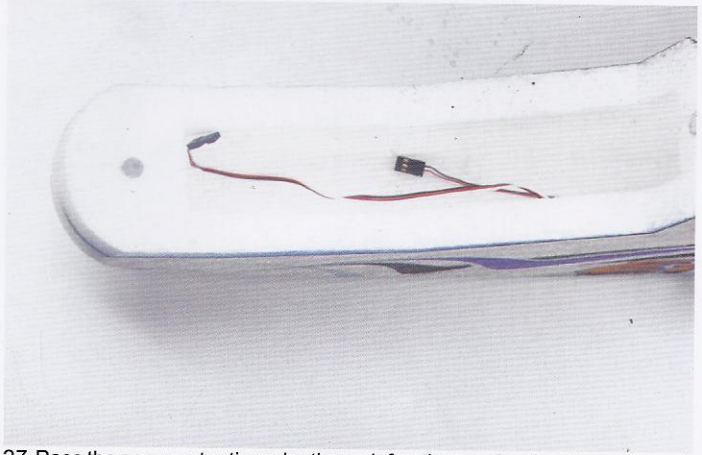
23.Stick the horn.

24.Install elevator servo and Z wire.

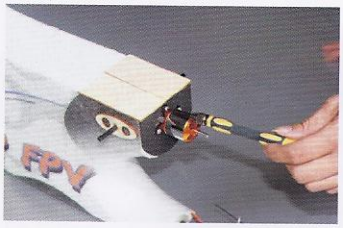


25.The horizontal tail and direction's servo mount can move freely, so that it has the function to adjust the plane's key point.

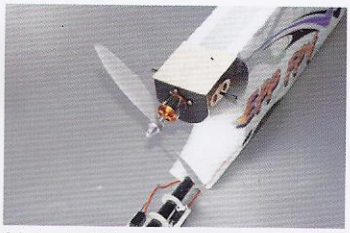
26.By the same way you embed the aileron servo's extention wire, Please embed horizontal tail and vertical tail's servo extention wire inside the fuselage.



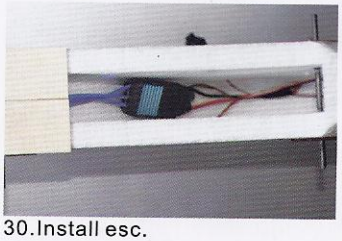
27.Pass the servo extention wire through fuselage to fuselage's equipment bay.



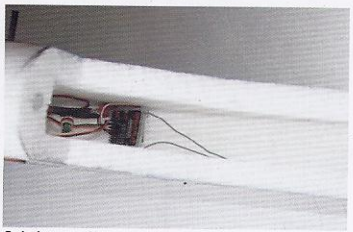
28.Install the motor.



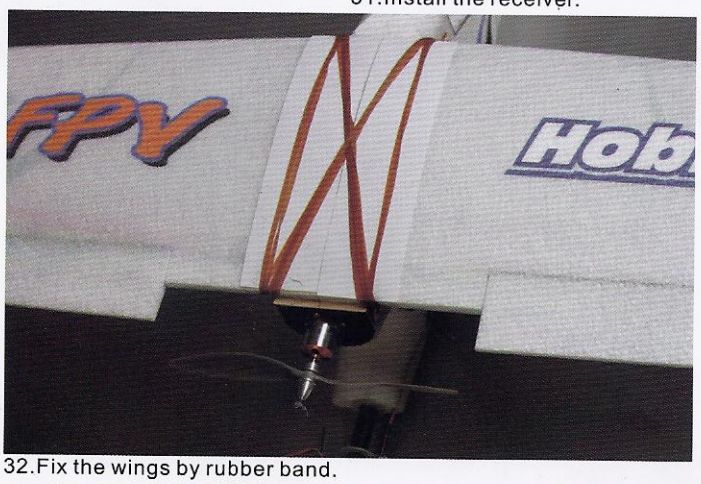
29.Install the propeller.



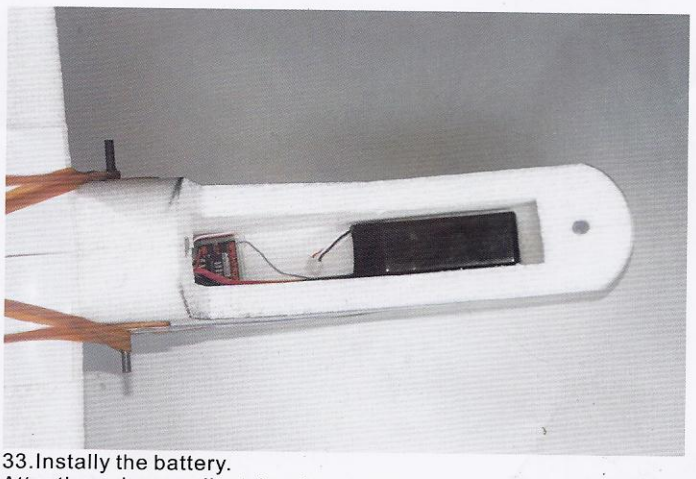
30.Install esc.



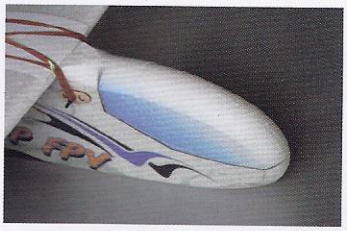
31.Install the receiver.

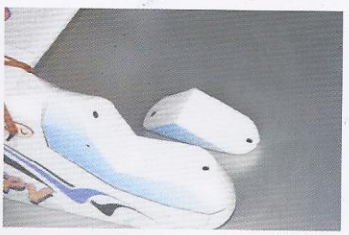


32.Fix the wings by rubber band.



33.Instally the battery.
Attention: please adjust the plane's key point position.





34.Please refer the aboved pictures if you want to install FPV.

Centre of gravity

Support your model with your fingertips. It should balance, slightly nose down, when your finger tips are 45-55mm behind the leading edge of the wing. Move the battery to balance fpv-epp. Do not try to fly an out-of balanced model, as it will crash!

Flying

Check each control surface for the correct movement and adjust pushrods. Checking running of the motor. For taking of you need a flying field about 500m long without trees around. Hold your model on the hand , put "full gas". Throw the model in the air little bit nose up .Move elevator a little bit up and warbird will be in the air .