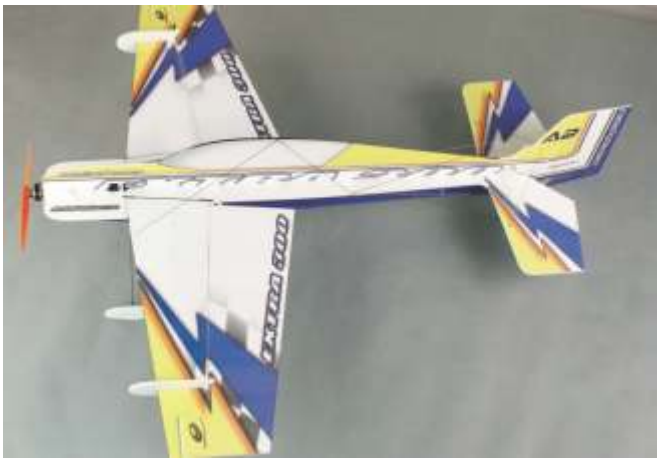
TECHone™

Before operating this unit, please read these instructions completely.

Extra 300 EPS
Instruction Manual



Features:

1. Extra 300 F3P is a professional F3P model which is made of 3MM depron.

2. It can finish all indoor 3D and F3P maneuvers greatly.

3.Adopt lots of super light and high intensity carbon fiber materials to strengthen the whole plane.

4.Mostly built in our factory, you'll take less time to assemble.

Product Specifications

Fuselage length: 970mm (38.2 in.)
Wingspan: 840mm (33 in.)
Flying Weight: 165g (with battery)
Motor: AS2204 KV 1700
ESC: 6 Amp
Servo: 6g*4 micro servo
Radio : 4/more channel
Receiver: 4/more channel
Battery: 2S 7.4V 350-500mAh Li-po 25C
Recommended Environment: Outdoor
Assembly Time: Less than 1 Hour

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: 40 degrees up and 40degrees down(65mm)

Max servo travel of elevator:50 degrees up and 50 degrees down(80mm)

Max servo travel of rudder: 55 degrees left and 55 degrees right(100mm)

Examine your kit carefully!

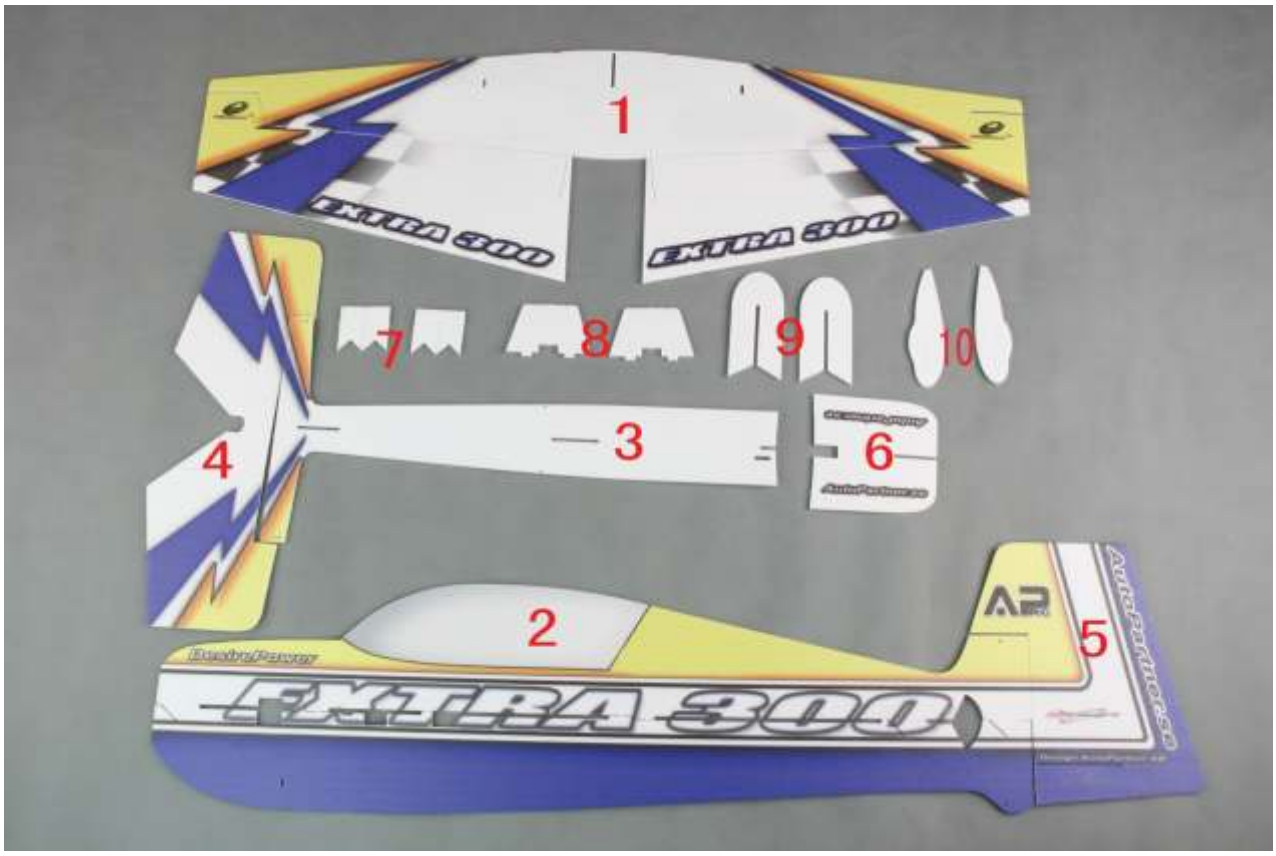
Extra 300 F3P model kits are subject to strictly QC throughout the whole production, and we sincerely hope that you are completely satisfied with the contents of your kit. However, before your assembling, we would ask you to check all the parts according to the Parts List, as we cannot exchange components already modified. If you find any part is not acceptable for any reason, we will readily correct or exchange it once the faulty component confirmed. Just send the offending part to our Model Department. Please be sure to include the enclosed complaint form, duly completed. We are constantly working on improving our models, and for this reason we reserve the right to change the kit contents in terms of shape or dimensions of parts, technology, materials and fittings, without prior notification. Please understand that we cannot entertain claims against us if the kit contents do not agree in every respect with the instructions and illustrations.

Caution!

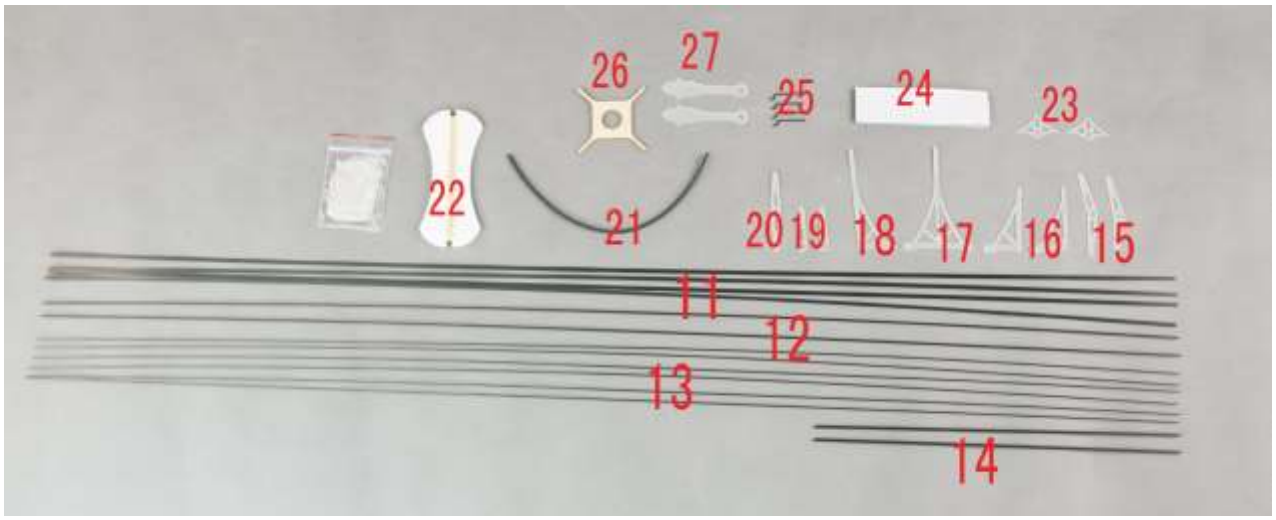
Radio-controlled models, especially model aircraft, are not the usual -named playthings. Safely building and operating require a certain experience on technical and manual skill, together with discipline and a responsible attitude at the flying field. Errors and carelessness in building and flying can result in serious personal injury and damage to property. Since we, as manufacturers, have no control over the construction, maintenance and operation of our products, we are obliged to take this opportunity to point out these hazards and to emphasis your personal responsibility.

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

Parts included in the packing

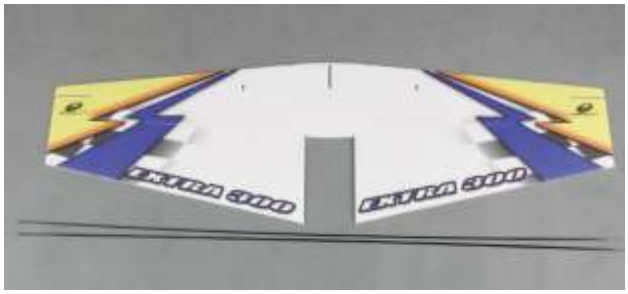


1.Wing	1 pc	6.Nose	1 pc
2.Fuselage	1 pc	7.nose reinforcement	2 pcs
3.Horizontal fuselage	1 pc	8.Fuselage/wing carbon rod supports	2 pcs
4.Stabilizer	1 pc	9.Wing fence	2 pcs
5.Rudder(vertical tail)	1 pc	10.Wheel cover	2 pcs

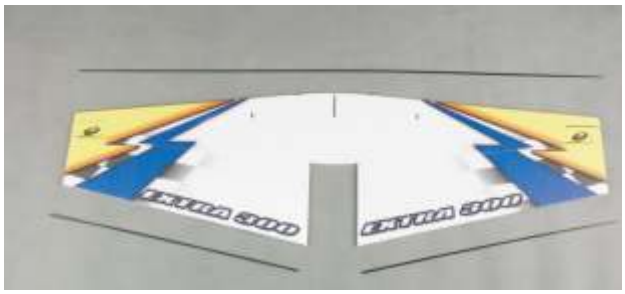


11. 850*3*0.5MM Carbon Strip	4 pcs
12. 850*Φ1.5MM Carbon Rod	2pcs
13. 850*Φ1MM Carbon Rod	6pcs
14. 0260*Φ2MM Carbon Rod	2pcs
15. Aileron servo arm extension	2pcs
16. Aileron control horn	2pcs
17. Glass fiber two-way control horn	1pc
18. Glass fiber one-way control horn	1pc
19. One-way servo arm extension	2pcs
20.Two-way servo arm extension	1pc
21.Shrink tube	1pc
22.Pull-pull thread	1pc
23.Wheel stopper reinforcing plate	2pcs
24.Nylon vercro	1pc
25.Z bend	4pcs
26.Motor mount	1pc
27.Glass fiber knighthead	2pcs

Assembly steps

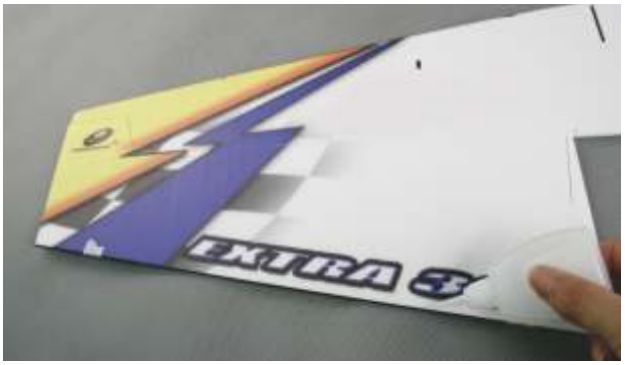


1. Wing & ailerons reinforcing carbon strips installation.

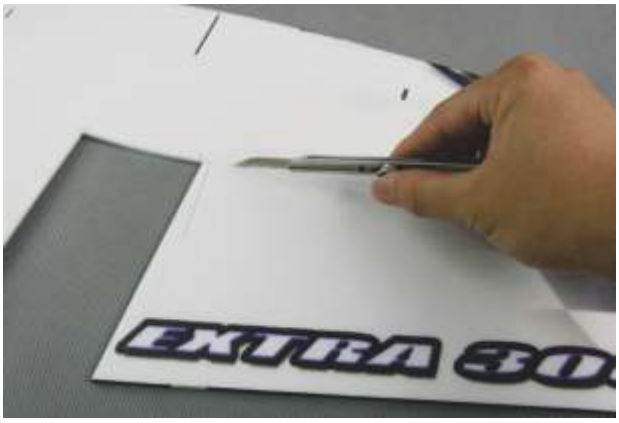


2. Cut carbon strips to proper size as picture shown.

3.Paste the corresponding carbon strip on wing with adhesive tape (as picture shown), then glue it well.



4.The same as last step for ailerons.



5.Cut out ailerons.

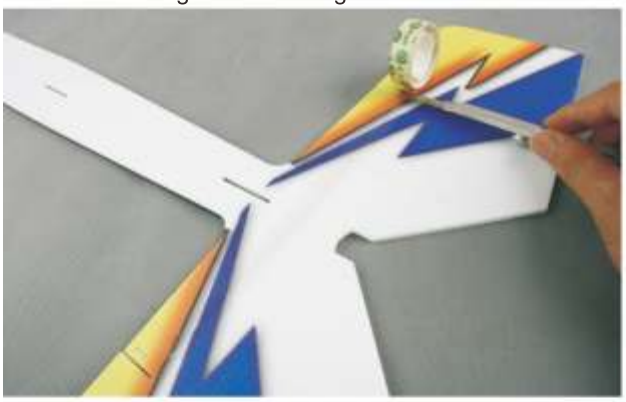
6.Cut a 45 degree bevel angle on joint between wing and aileron.

7.Connect aileron with wing together by adhesive tape (keep 1mm clearance between the connection).

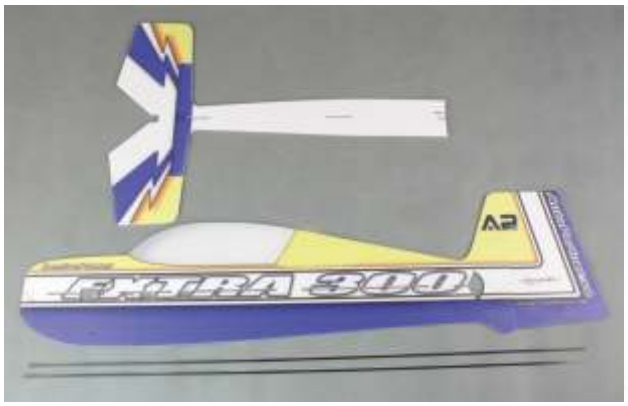
8. The finished picture.

9.Cut out Stabilizer from the horizontal fuselage.

10.Cut a 45 degree bevel angle on elevator.

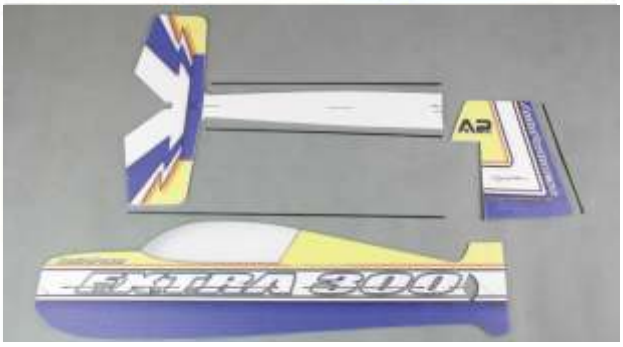


11.Same operation as aileron.

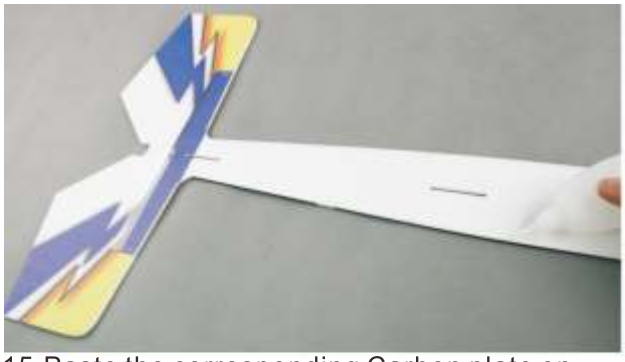


12.Paste carbon plates on fuselage, horizontal fuselage, Rudder.

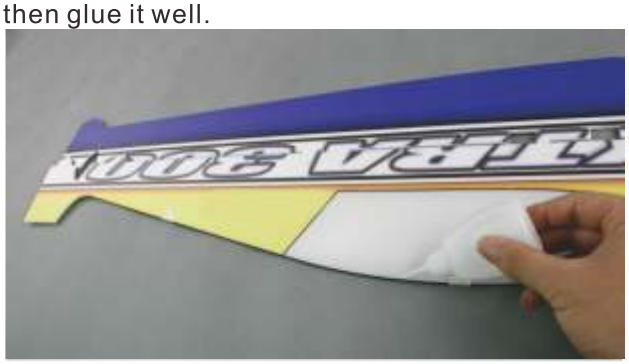
13.Cut out rudder from fuselage.



14.Cut carbon strips to proper sizes as picture shown.



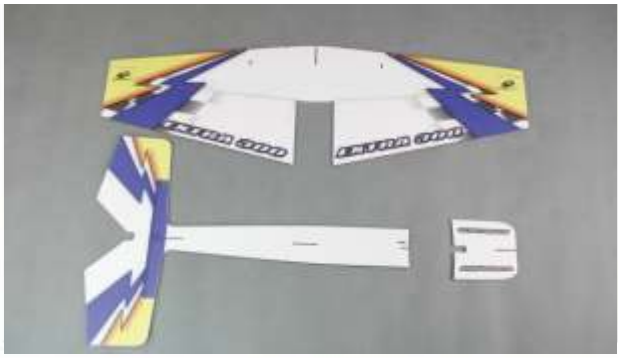
15.Paste the corresponding Carbon plate on horizontal fuselage via adhesive tape (as picture), then glue it well.



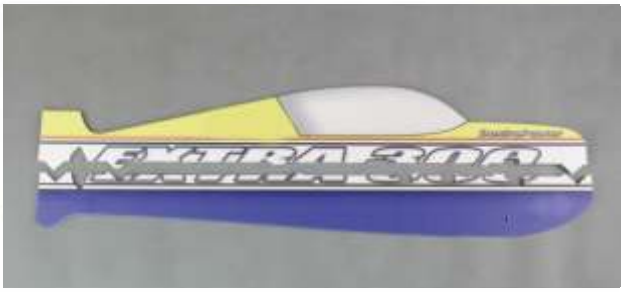
16.The same as step 15 on the upper face of fuselage.

17.The same as step 15 on rudder.

18.Cut a 45 degree bevel angle as picture shown.

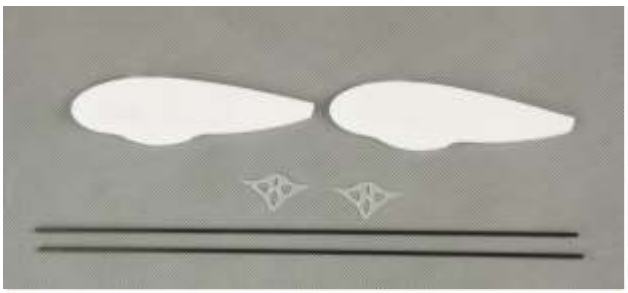


19.Connect horizontal fuselage and wing with glue.



20.Cut off connected points on fuselage.

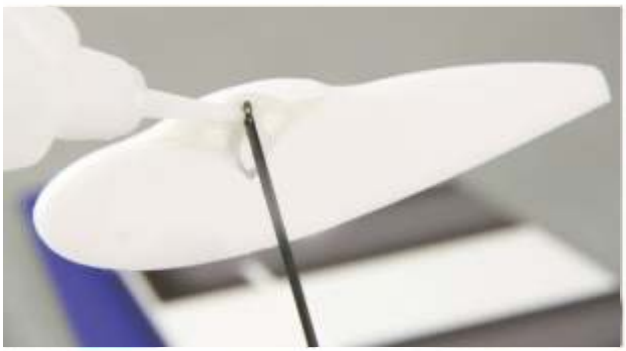
21.Insert lower vertical fuselage into the slots on horizontal fuselage, then fix them with glue. Make sure they're perpendicular to each other.



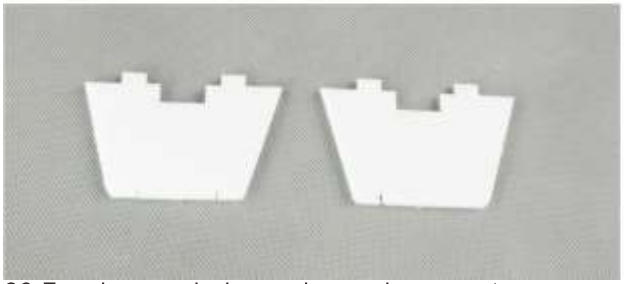
22.Landing gear installation

23.Insert carbon rods into corresponding hole on fuselage.

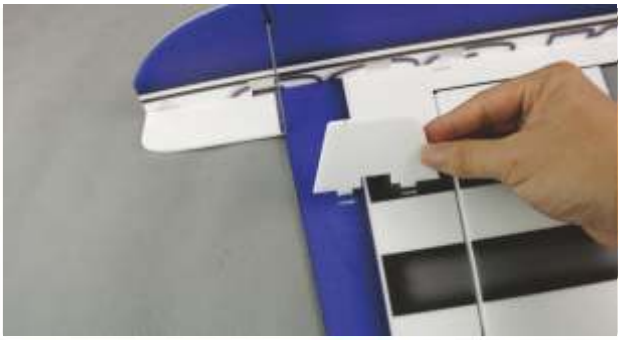
24.Fix wheel stopper reinforcement on wheel cover with glue.



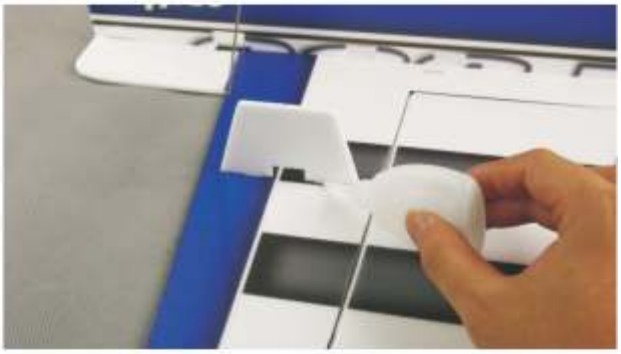
25.Connect wheel stopper with carbon rod a s picture, then glue it well.



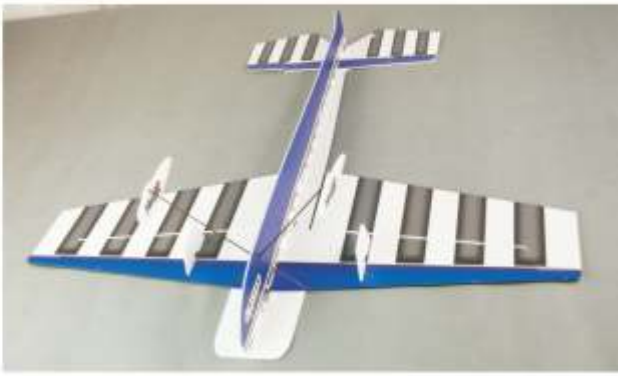
26.Fuselage and wing carbon rods supporter installation



27.Insert carbon rods Supporter into the related slot of wing as picture.



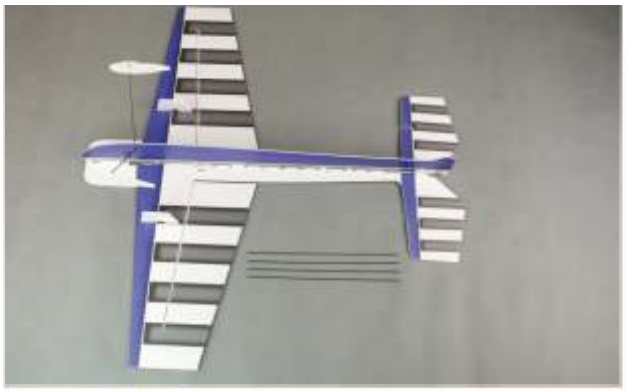
28.Glue well carbon rods' supporter and wing.



29.The finished picture.

30.Fuselage reinforcing carbon rods

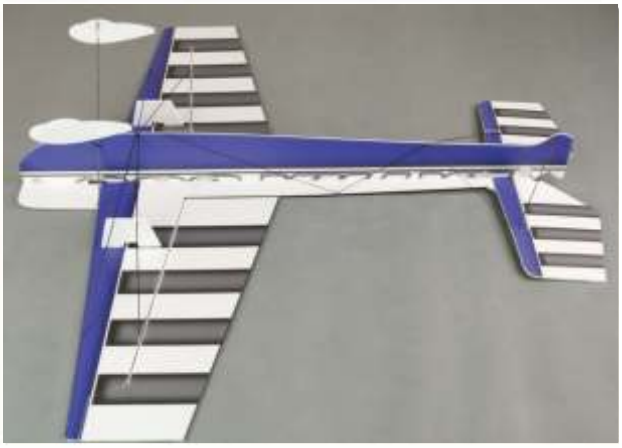
31.Insert #12 carbon rod (850*Φ1.5 MM) into the slot of wing, and through the slot of carbon rod supporter, then cut it off when it reach lower fuselage. As picture.



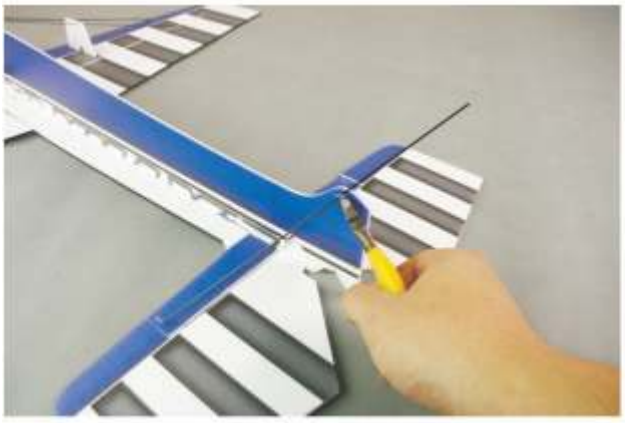
32.The finished picture.

36.Connect #13 carbon rod as picture, then glue it well.

33.Insert carbon rods into related slots of fuselage and wing, then glue them well.

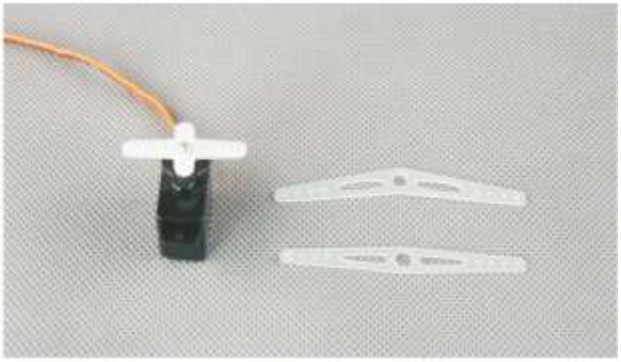


37.Carbon Rods reinforcing in the middle of fuselage.

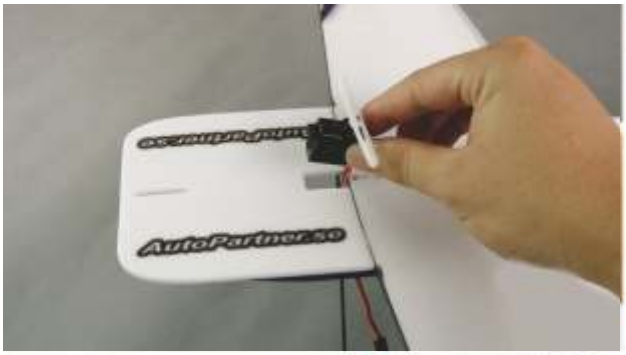


34.Insert #12 carbon rod into the 3rd hole on stabilizer (from back to front), and cut it off when it reach lower fuselage. As picture.

35.Insert carbon rods into the related holes on fuselage tail and stabilizer, and glue them well. (Ensure fuselage with horizontal fuselage be at vertical.)

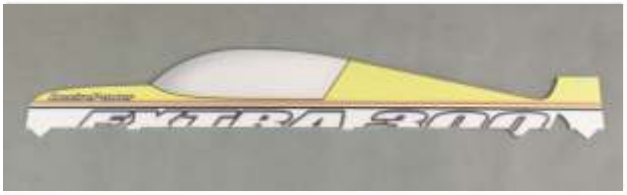


38.Install aileron servo, and Lengthen rocker arm according to customer's request.



39.Put aileron servo into the slot as picture.

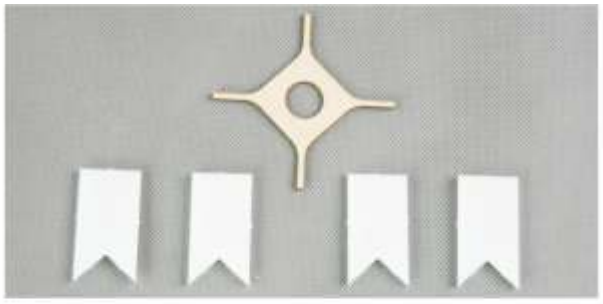
40.Glue it well.



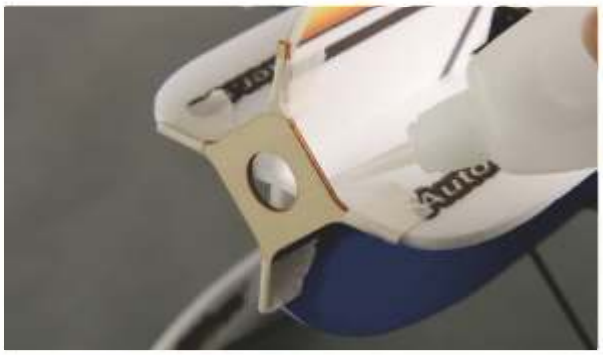
41.Assemble upper fuselage.

42.Put upper fuselage into the slot of horizontal fuselage, and glue it well. (ensure upper fuselage is vertical with horizontal fuselage.)

43.Connect rudder with fuselage tail. (Ensure 1mm between the connect face).



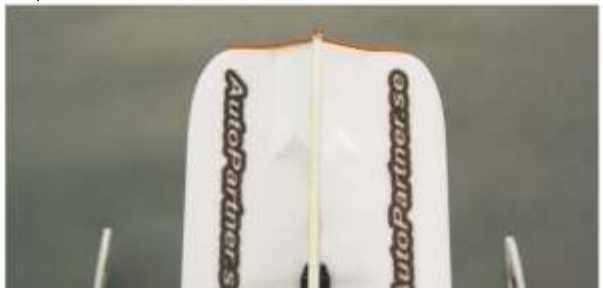
44.Motor mount and reinforce plates.



45.Paste motor mount onto plane nose, then glue it well as picture.

46.Cut one 45 degree bevel angle on both sides of reinforce plates. (left side and right side)

47.Glue reinforce plates on motor mount and nose as picture.

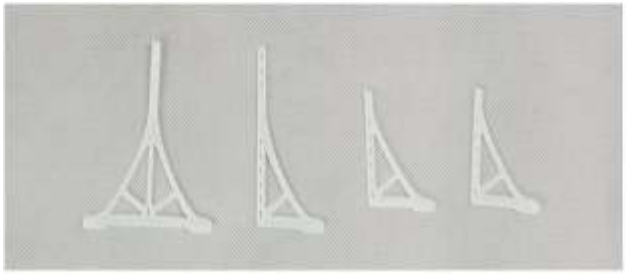


48.The finished picture.

49.Assemble wing fence.

50.Insert wing fence into wing and glue it well.

51.The finished picture.

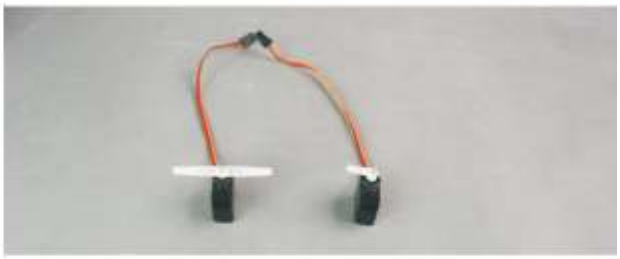


52.The finished control horn.

53.Insert aileron control horn into the reserved slot of aileron, and glue it well.

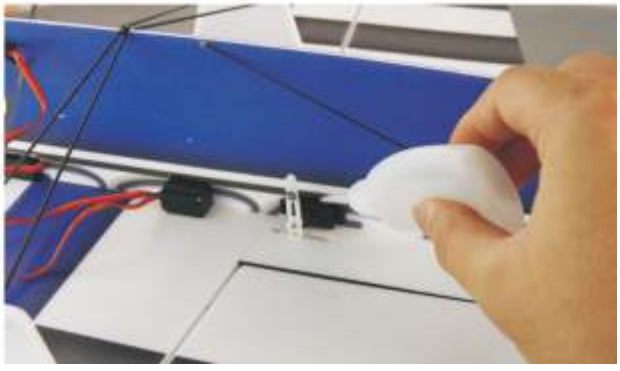
54.Insert two-way control horn into the reserved slot of stabilizer, then glue it well. (Ensure it is in the middle).

55.Insert one-way control horn into the reserved slot of rudder, and glue it well.

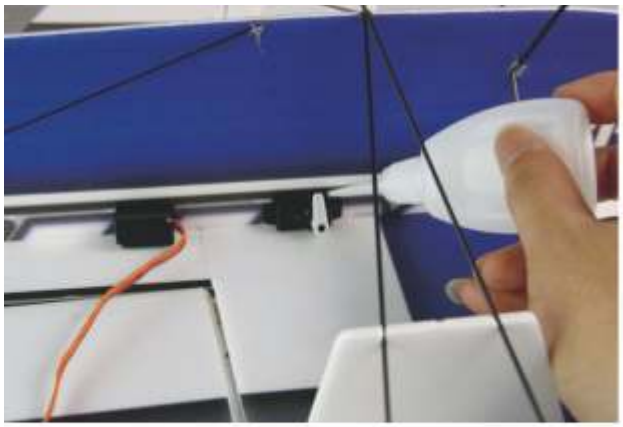


56.Assemble rudder servo and stabilizer servo.

57.Optional accessories.



58.Insert stabilizer servo into fuselage and insert servo arm into the reserved slot of horizontal fuselage, then glue them well.

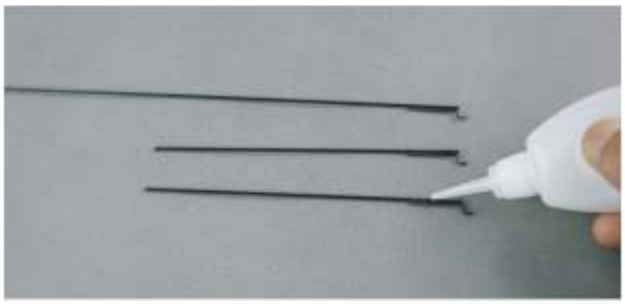


59.Insert rudder servo into the reserved slot of fuselage, then glue it well.

60.Assemble push-pull rod.

61.Cut out #12 carbon rods to the suitable length as rudder and aileron push-pull rod.

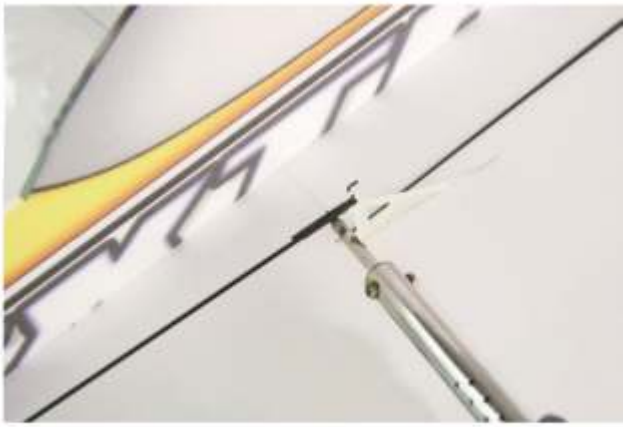
62.Cut #21 accessories to be 15mm heat-shrink tube (6pcs).



63.Connect push-pull rods with heat-shrink tube and Z-shaped wire, and glue them well.

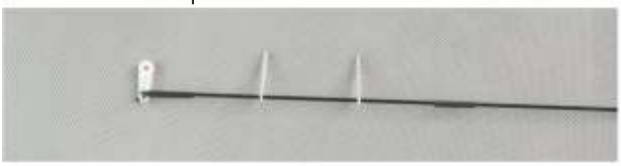
64.Fix the connected push-pull rods via searing iron.

65.Insert connected push-pull rod with Z end into the hole of rocker arm, and the other end into the hole of aileron control horn. Then glue them well.

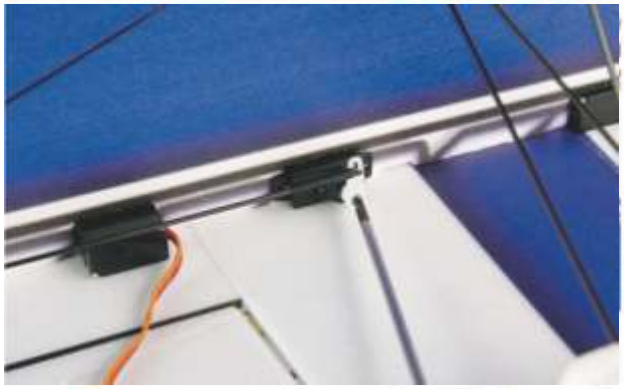


66.Fix aileron push-pull rod via searing iron.

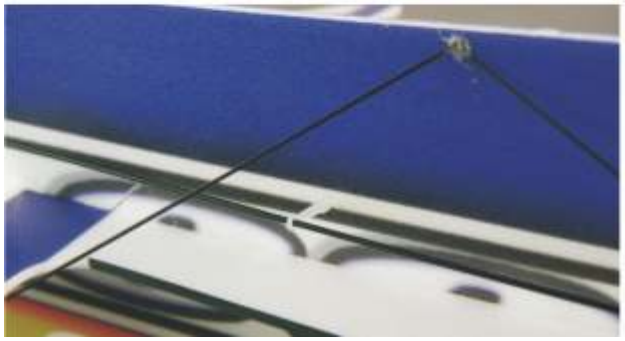
67.The finished picture.



68.Rudder push-pull rod with two supporters.



69.Insert rudder push-pull rod with Z end into the hole of rudder servo arm, and fix the arm on servo via screws.



70.Assemble push-pull rods as picture, and glue them well.

71.Fix rudder in the same horizontal lever with fuselage, assemble Z-shaped wire on the rudder control horn, then glue it well.

72.Fix the connected push-pull rod with Z-shaped wire via searing iron.

73.The finished picture.

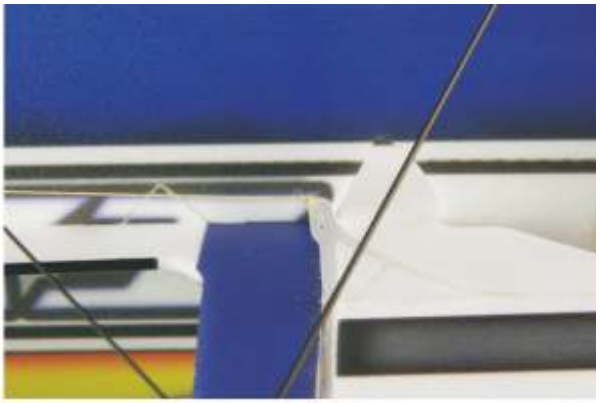
74.Assemble Rudder string.

75.Cut 2pcs of string, make they 6-8cm longer than the length from stabilizer servo to its control horn.

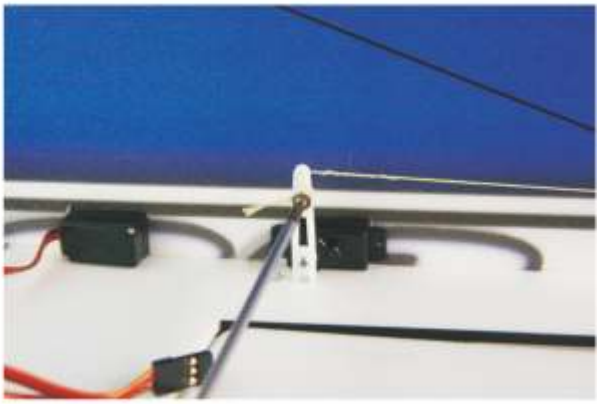
76.Drop some glue on two ends of string, make they dry.

77.Pass one end of string through the hole of stabilizer control horn, tie a knot, then glue it well.

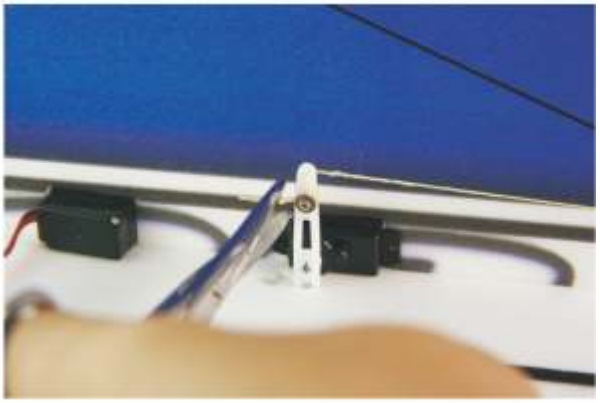
78.Cut off the reminder string.



79.The finished picture.



80.Pass the other end of string through two holes of servo rocker arm, then fasten it with screws.
The same as the other string.



81.Cut off remainder string.

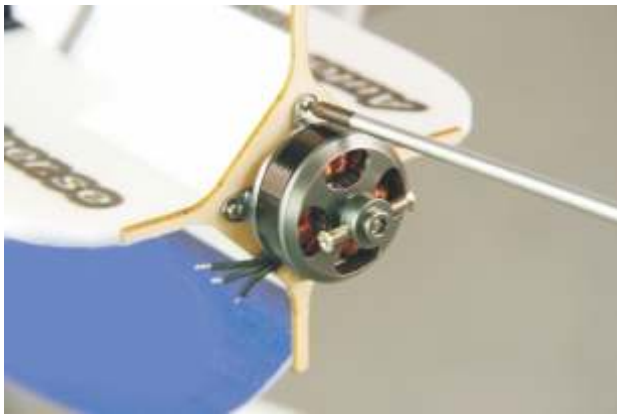
82.The finished picture.

83.Reinforce upper fuselage.

84.Insert the remainder carbon rod of #13 (850*Φ1 MM) into the slot of stabilizer, cut off the other end according to the hole of upper fuselage.

85.Insert one end of reinforce carbon rod into the hole of stabilizer, the other end into hole of fuselage, then glue them well. (Them same as the other side.)

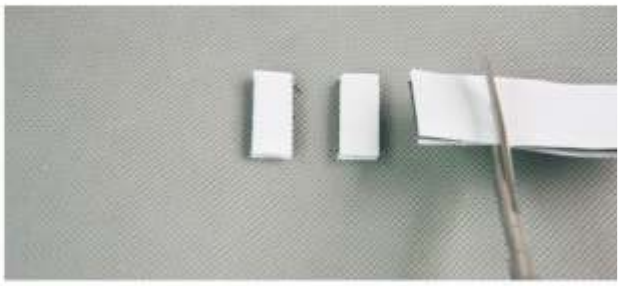
86.Cut remainder reinforce carbon rods to be suitable length, and reinforce upper fuselage. (Ensure these reinforce rods will not disturb stabilizer string and aileron push-pull rods.)

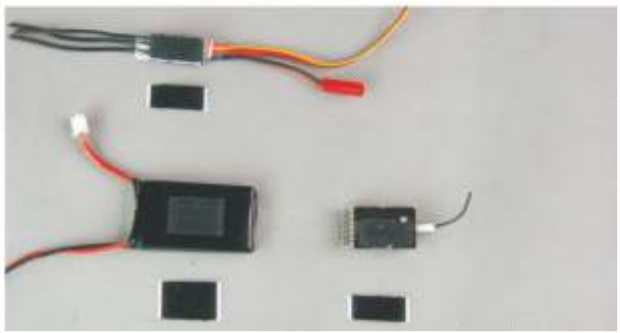


87.Put motor on the middle of motor mount and fix it with screws.

88.Assemble prop on the motor and fix it well via O-shaped ring.

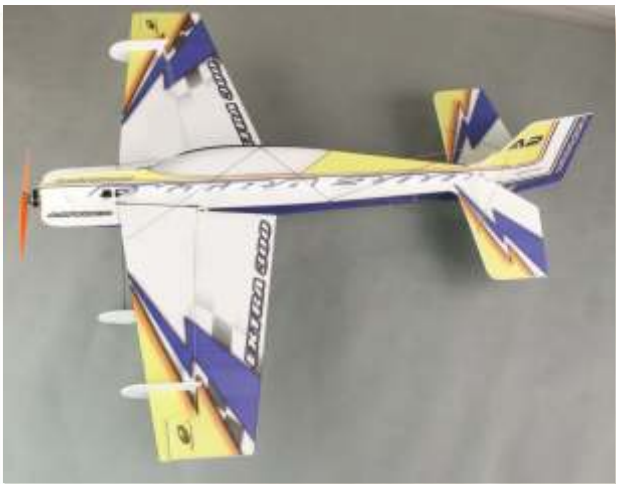
89. Assemble electronic equipment.





90.Cut out 3pcs of magic tape for receiver, ESC and battery.

91.Connect well servos and receive, assemble battery, ESC and receive on the related location. Then the whole assemble for this plane is finished.



Safety

Safety is the First Commandment for any kind of flying. Third party insurance should be a common essential. If you join into a model club, some protection will be obtained. It is your personal responsibility to ensure your insurance is adequate. Make it be your job to keep your models and radio control system in perfect order at all times. Check the correct charging procedure for batteries on using. Enlarge the efficient of all suggested prevention measures and well safety system. As our products are exclusively designed and produced by professional modelers, it's our major work to make an excellent resource allocation for practical accessories.

Always fly with a responsible attitude. You may think the lower your flying near to somebody's head, the better your skill is. It's not an expert's thought, and let others get it as yours.

Always fly in a way which will not endanger yourself or others. Keep in mind that even the best RC system in the world is subject to outside interference. No matter how many years of accident-free flying experience, you have no idea what will happen in the next minute.