

Before operating this unit, please read these instructions completely.

Mini Tempo 3D-EPP

Instruction Manual

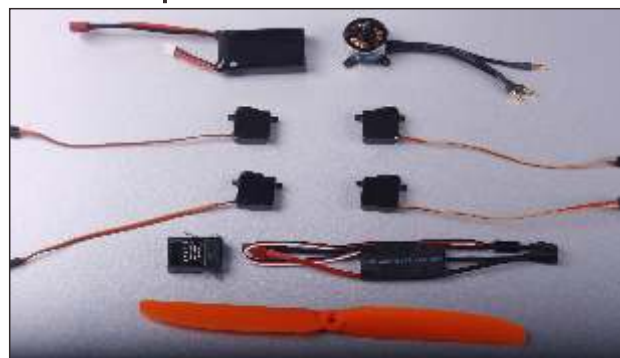
EASY TO INSTALL



Features:

1. Mini tempo 3D-EPP is a super model for 3D aerobatic flying. It's made of "almost unbreakable" EPP material and by the modern technology in CNC machines.
2. The flying time of Mini tempo 3D-EPP is 8-15 minutes, it depends on the flying figures. The model is able to "torque roll" and then after giving more "gas" to rise vertically up, looping in "knife" flight and all aerobatic figures.
3. Easy to land.
4. Easy to assemble, most of the parts are pre-assembled in our factory.

Product Specifications



Fuselage length: 815mm (32.1in.)
Wingspan: 800mm (31.5in.)
Flying Weight: 250--290g (with battery)
Motor: AT2004 or AT2206
ESC: 10 Amp
Propeller: gws 8040 HD
Servo: 5-6g micro servo*4pcs
Radio: 4/more channel
Battery: 7.4V 800-1000mAh Li-po 25C

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

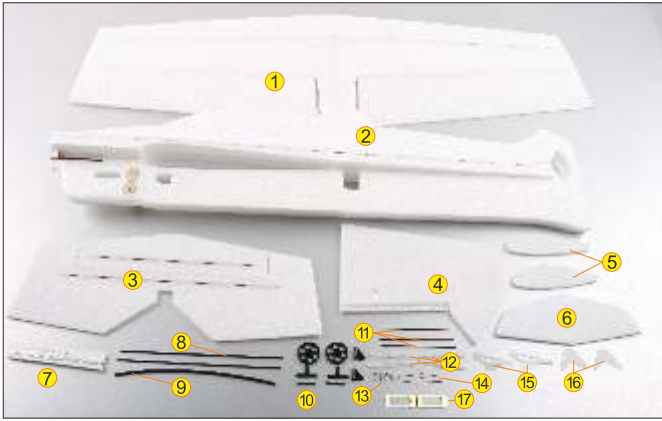
Max servo travel of aileron: 45degrees up and 45degrees down(50mm)
Max servo travel of elevator: 50 degrees up and 50 degrees down(70mm)
Max servo travel of rudder: 50degrees left and 50 degrees right (80mm)

CG Position:

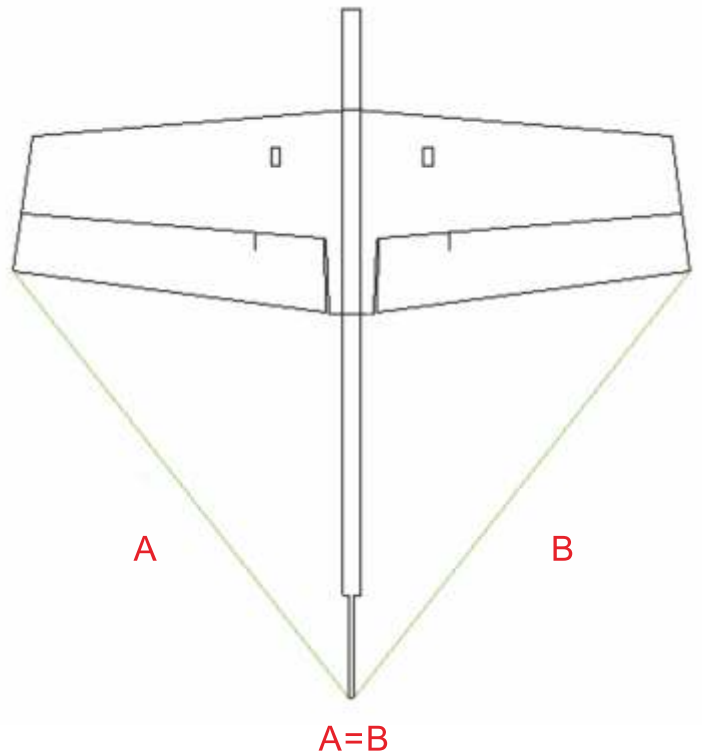
80-85mm from the leading edge of the wing.



parts included in the packing



- | | | | |
|----|---|-------|------|
| 1 | Wing (right and left) | ..... | 1pc |
| 2 | Fuselage | ..... | 1pc |
| 3 | Elevator (stabilizer) | ..... | 1pc |
| 4 | Rudder (vertical tail) | ..... | 1pc |
| 5 | Wheel cover | ..... | 2pcs |
| 6 | Wingtip | ..... | 1pc |
| 7 | Thread | ..... | 1pc |
| 8 | Landing gear fiber tube 2*180mm | ..... | 2pcs |
| 9 | Shrink tube | ..... | 1pc |
| 10 | Landing gear set | ..... | 2pcs |
| 11 | Fiber tube 1.3*85mm | ..... | 3pcs |
| | (2pcs aileron push rods, 1pc tail skid) | | |
| 12 | Extension servo arm | ..... | 4pcs |
| 13 | Screw | ..... | 4pcs |
| 14 | Z bend 0.7mm | ..... | 4pcs |
| 15 | Aileron horn | ..... | 2pcs |
| 16 | Elevator & Rudder horn | ..... | 2pcs |
| 17 | Plywood servo mount | ..... | 2pcs |

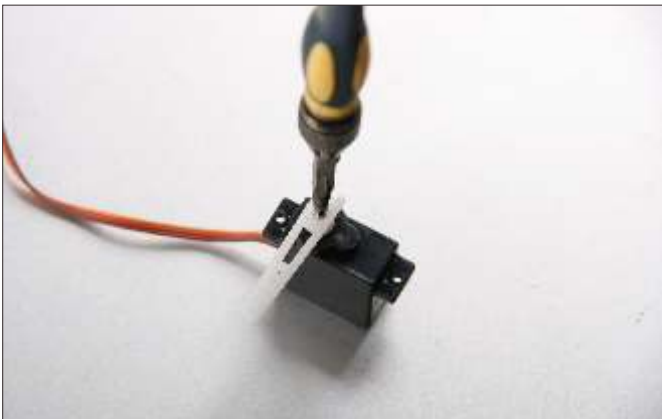


1. Insert the wing into the slot of fuselage and use glue to fix. Make sure A=B (refer to above picture)

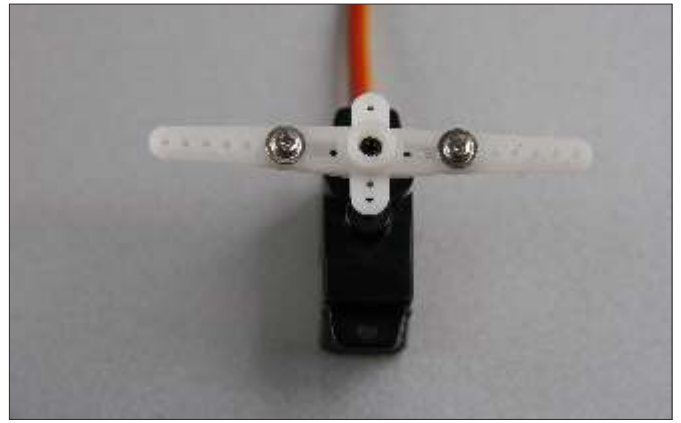
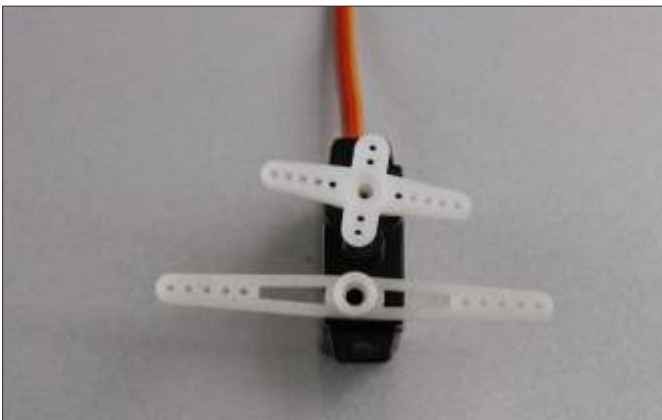
The items below are required for assembly



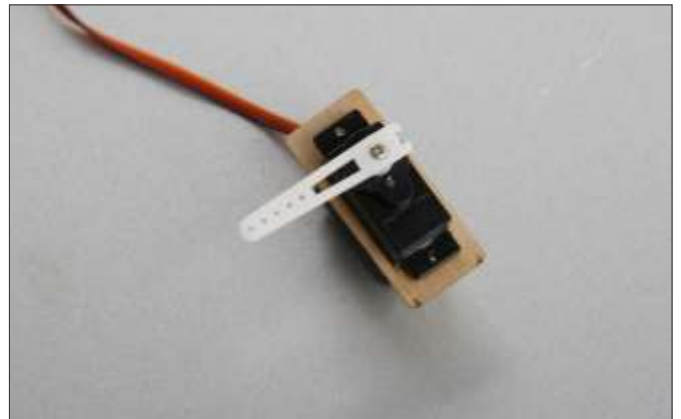
2. Drop some glue on the joints of fuselage and wing to fix (both upside and downside).



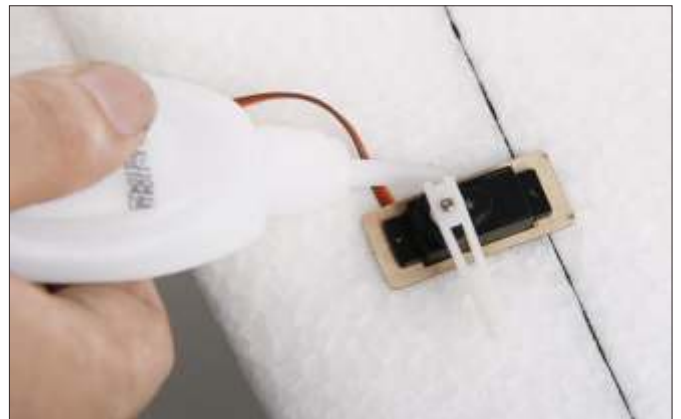
3. Cut half of the extension servo arm and fix it with screw.



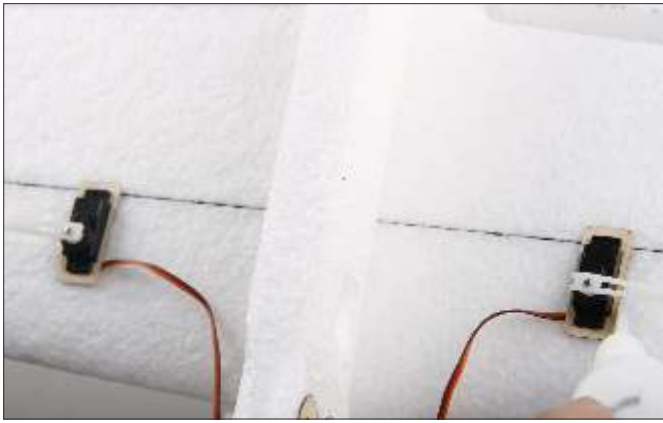
4. If the extension servo arm gear does not match with the servo gear, pls use above method (3 pictures) to adjust so as to make it suitable.



5. Install the servo mount as picture shown.



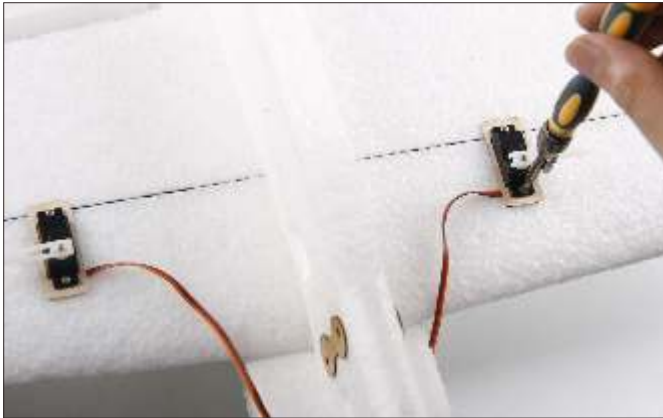
6. Put the servo into the servo hole, then use glue to fix the servo mount onto the wing. Make sure the servo arm point to the wingtip.



7. Use the same method to install the aileron servos



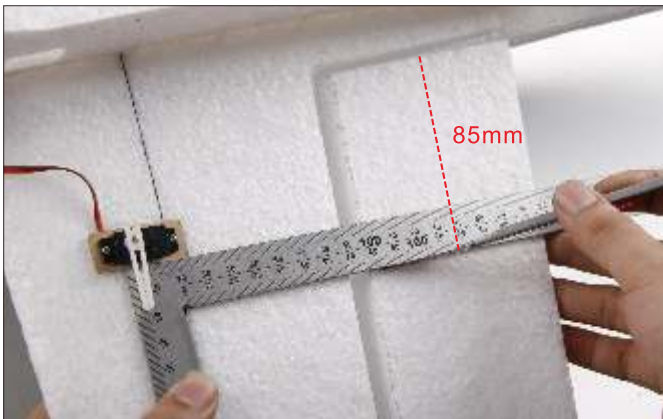
10. Fix the aileron horns with CA



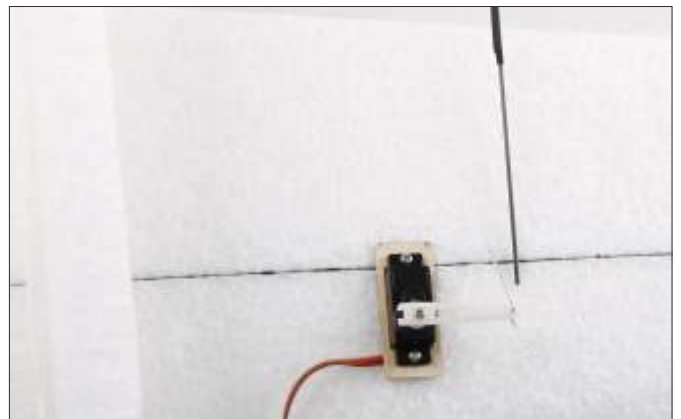
8. And fix the servos onto the plywood servo mount with included screws.



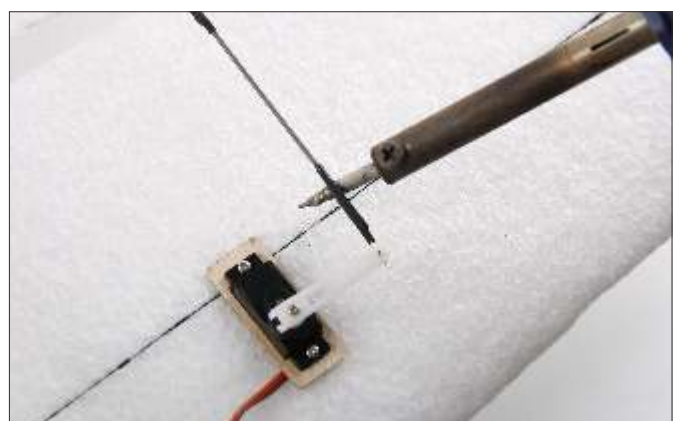
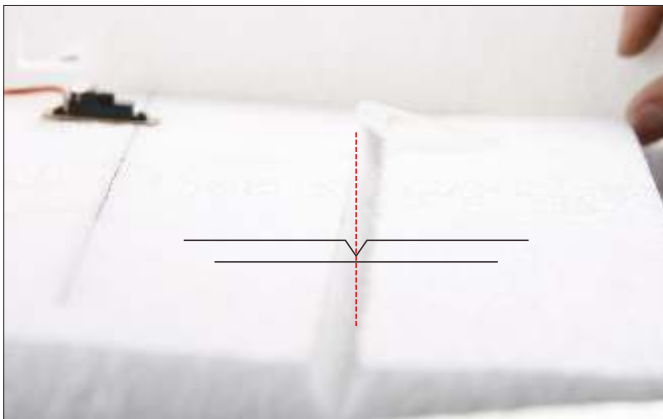
11. Cut shrink tube into 4pcs 20mm length, then use electric iron to install 2pcs Z bend and 2pcs carbon fiber tubes (size: 1.3*85mm), please refer to the picture.



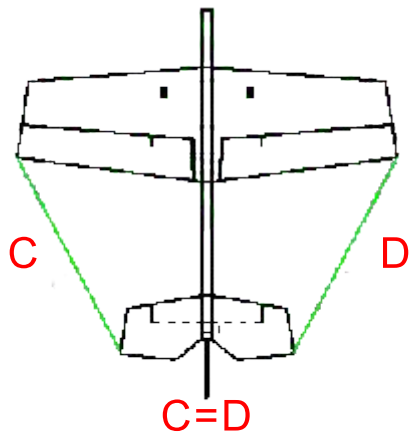
9. Cut a small slot on the aileron, details please refer to the pictures.



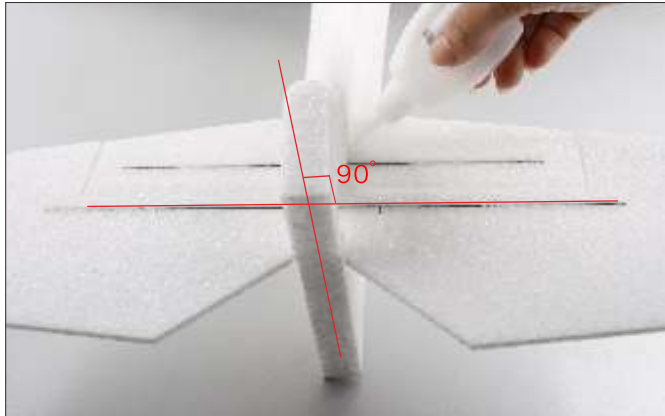
12. Connect above assembled Z bend to the aileron horn, and another Z bend (not assembled) to the servo arm.



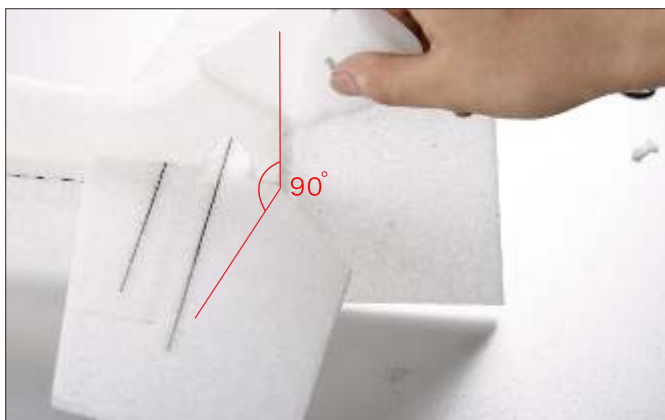
13. Use electric iron to fix the push rod and the Z bend which was connected to servo arm.



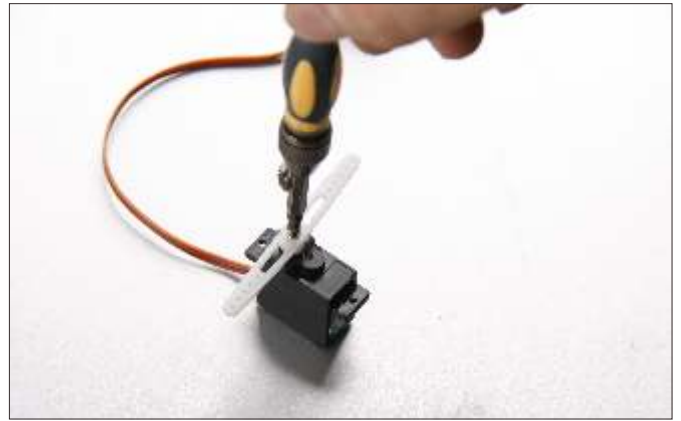
14. Insert elevator into the slot of fuselage. Make sure $C=D$ (refer to the picture).



15. Drop some glue on the joints of elevator and fuselage to fix.



16. Use CA to fix the rudder.



17. Use the same method to install the extension servo arm of elevator and rudder.

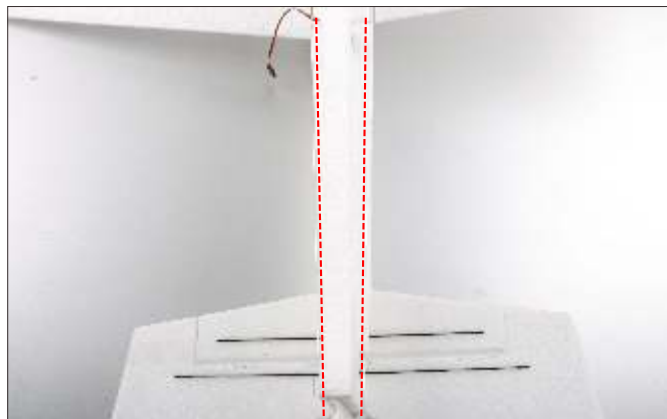
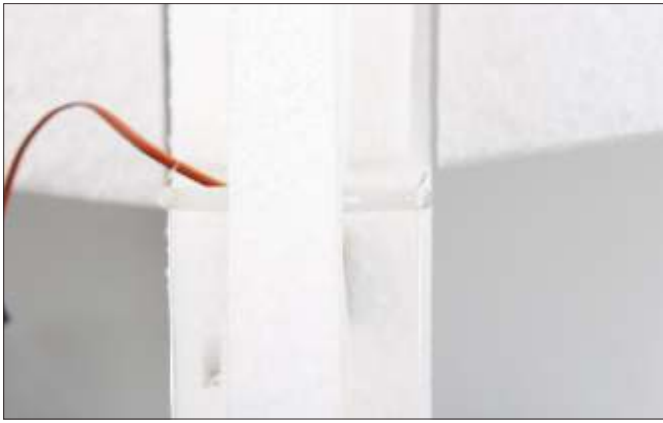


18. Fix the rudder servo into the pre-reserved servo hole with glue.



19. Insert the horn into the pre-reserved slot on rudder, then use glue to fix.

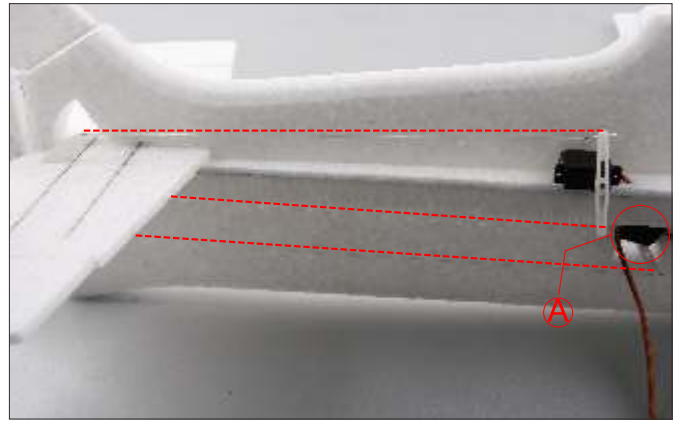




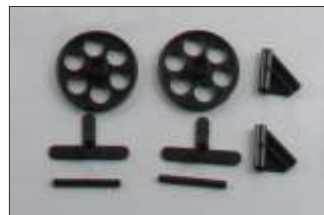
20. Use included thread to connect servo arm and rudder horn (there're small holes on servo arm and horn), then fix them with CA. Make sure the two threads are in same length. (see picture)



21. Insert the horn into the pre-reserved slot on elevator, then use glue to fix.



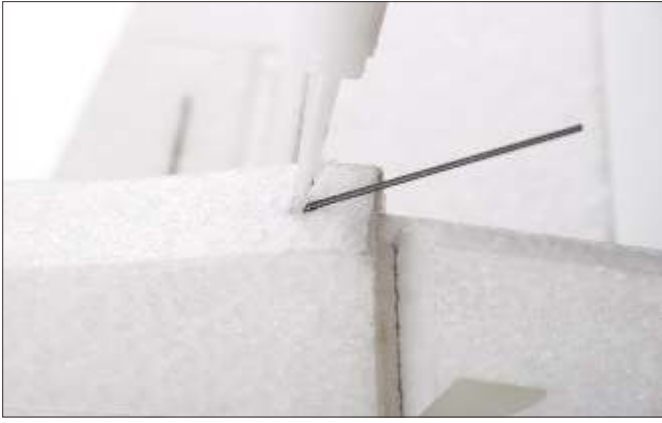
22. Fix the elevator servo 10mm away from point A, please refer to the picture. Then use the same method as rudder to install the elevator push thread.



23. Install landing gear.



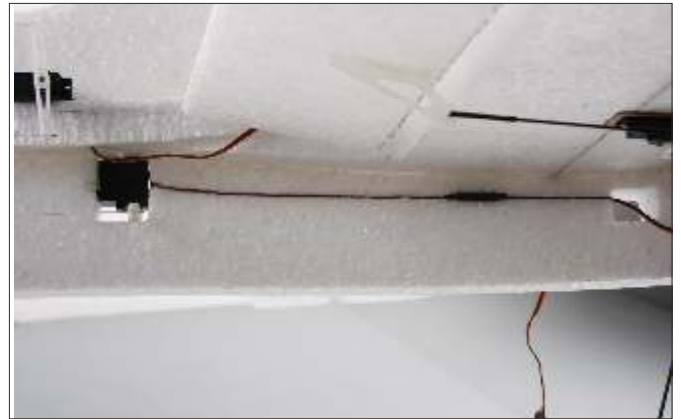
24. Push the landing gear through the plywood on fuselage and fuselage itself, then use CA to fix.



25. How to make a tail skid: Insert 1pc 1.3*85cm carbon fiber strip into the downside of rear fuselage and leave 2/3 outside, then use CA to fix.



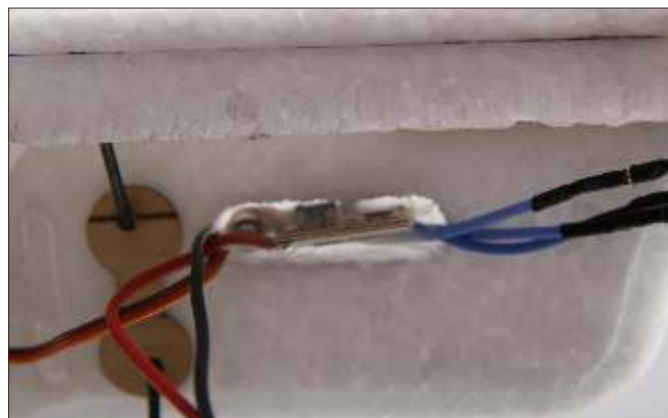
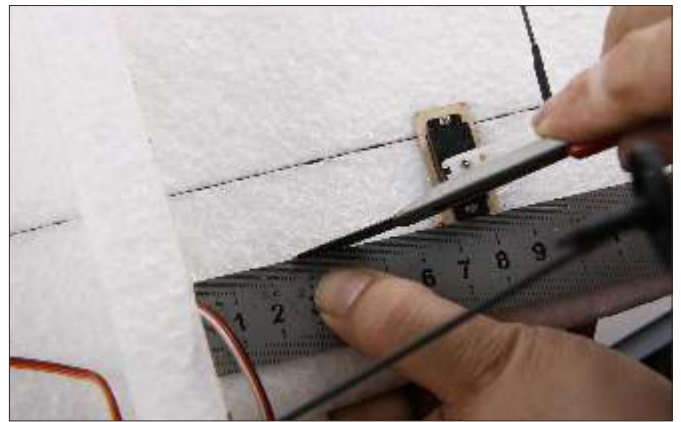
26. Use included screws to fix the motor onto the motor mount.



29. Embed the rudder and elevator servo leads into the pre-cut slots on two sides of fuselage. Pls use the servo extension wire if the servo wire is not long enough.



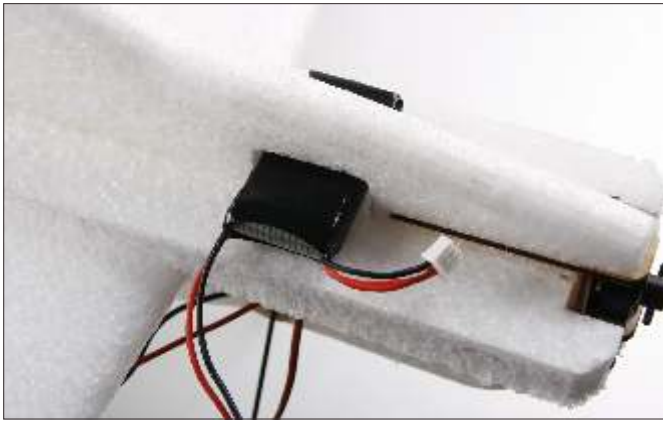
27. Connect motor and ESC, then adjust to correct motor running direction before flying.



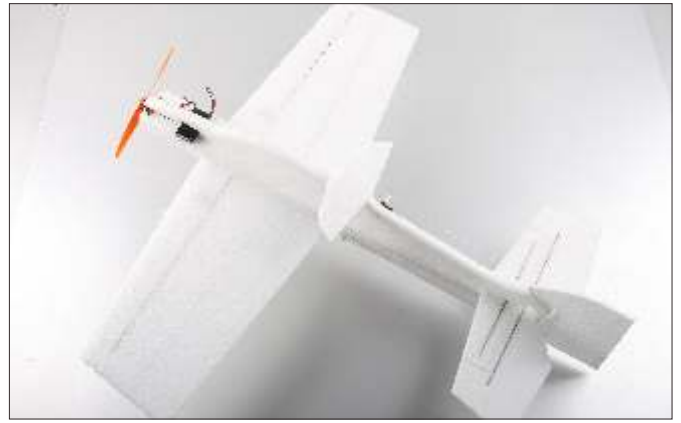
28. Put ESC into the slot of downside fuselage.



30. Use knife to cut slots on wing, then embed aileron servo leads as picture shown.



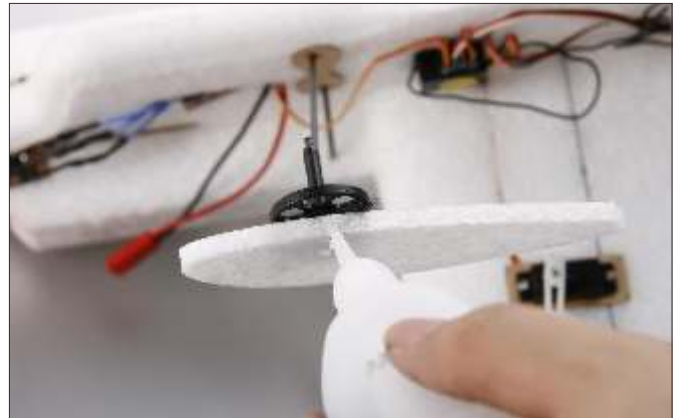
31. Insert battery into the battery hole.



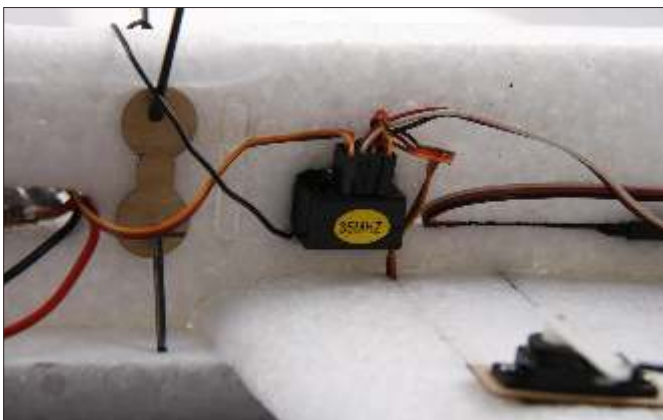
34. Glue the winglets to the wing.



32. Link the servo leads and ESC to receiver, then test-fly.



35. Fix the wheel covers with CA.



33. After test, put the receiver into the receiver slot. (see picture)



36. Use O-ring to fix the propeller .



A perfect mini tempo 3D-EPP 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.