



Before operating this unit, please read these instructions completely.

TECHone™

P51 3D-EPP

Instruction Manual



Features:

1. P51 3D-EPP is a superb 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 P51 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 landing.
4. Easy to assemble, most of the parts are pre-assembled in our factory.

Product Specifications

Fuselage length: 980mm (38.6in.)
Wingspan: 1000mm (39.4in.)
Flying Weight: 660--700g (with battery)
Motor: AS2216 KV 1250
ESC: 30 Amp
Propeller: 10x4.7sf or 10x3.8 sf
Servo: 10-17g micro servo*4pcs
Radio: 4/more channel
Battery: 11.1V 1500-2200mAh Li-po 25C

Warning: This aircraft is a hobby grade product, only for people 14-year old or above.

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

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

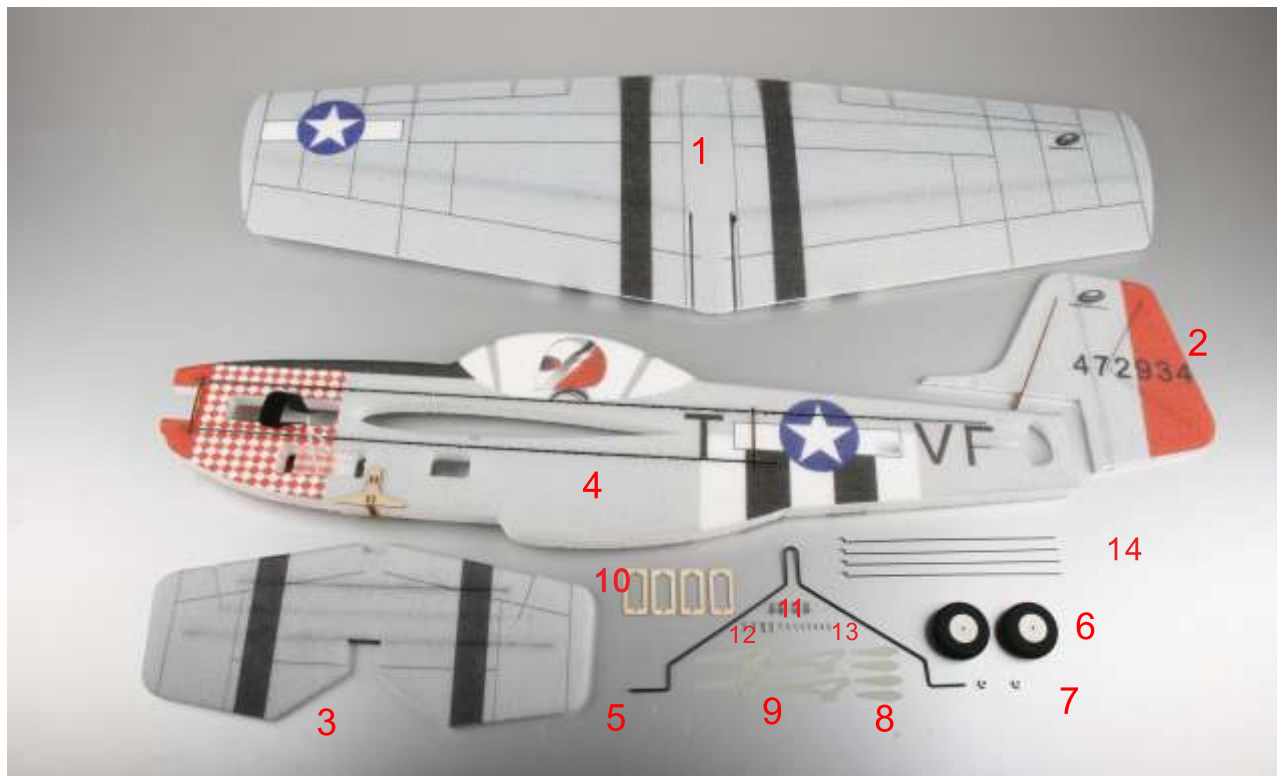
Max servo travel of rudder: 55degrees left and 55 degrees right (100mm)

CG Position:

90-100mm from the leading edge of the wing.



Parts included in the packing

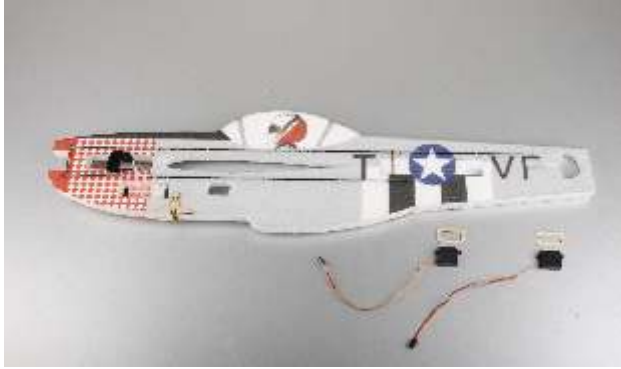


1 Wing (right and left)	1pc
2 Rudder (vertical tail)	1pc
3 Elevator (stabilizer)	1pc
4 Fuselage	1pc
5 Landing gear	1pc
6 Wheel	2pcs
7 Wheel block	2pcs
8 Extension servo arm	4pcs
9 Aileron, Elevator & Rudder horns	4pcs
10 Plywood servo mount	4pcs
11 Pushrod adjustor	4pcs
12 Screw 2.6*8mm	4pcs
13 Screw 2*4mm	8pcs
14 Z bend 1.2*200mm	4pcs

The items below are required for assembly



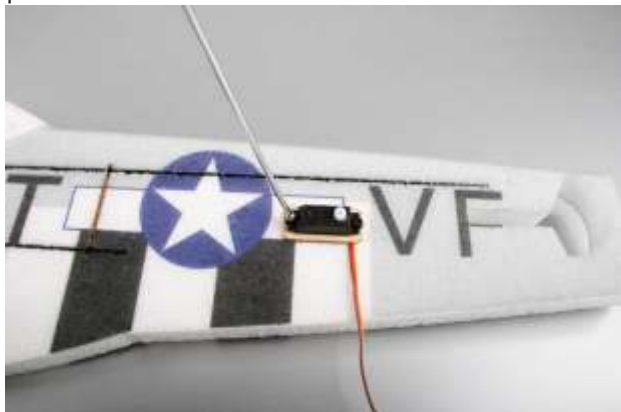
The assembly steps :



1. Install elevator servo into the servo mount.



2. Glue the servo with installed servo mount into pre-reserved hole.



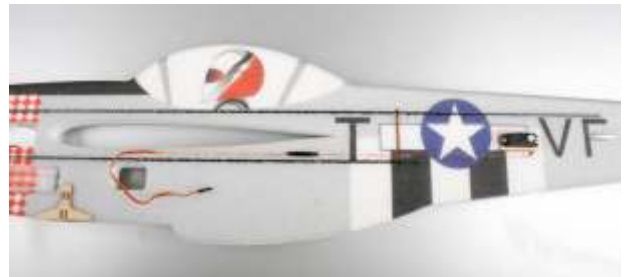
3. Then use self tapping screws to fix the servo onto servo mount.



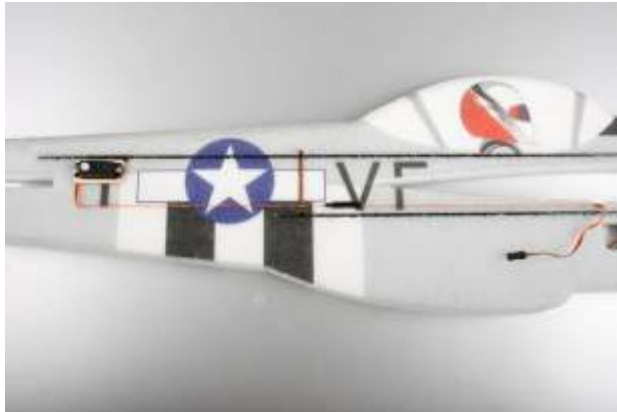
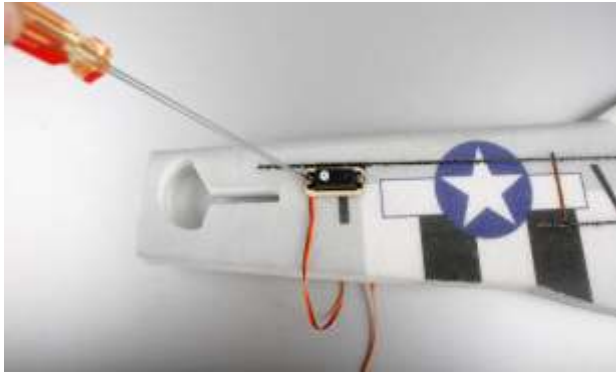
4. Install servo extension.



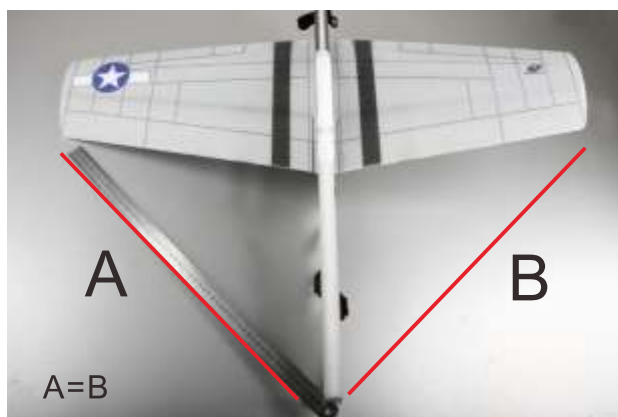
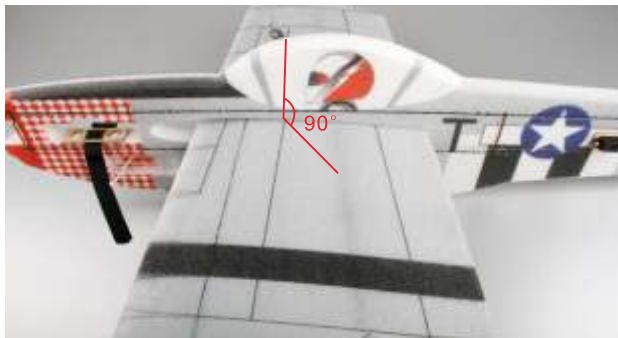
5. Cut a 10mm length slot on fuselage along a ruler, and make sure servo wire can be embedded deeply into the foam.



6. Embed servo leads into the slot.



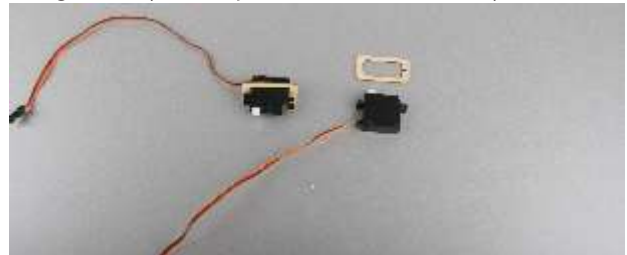
7. Same operations on rudder servo.



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



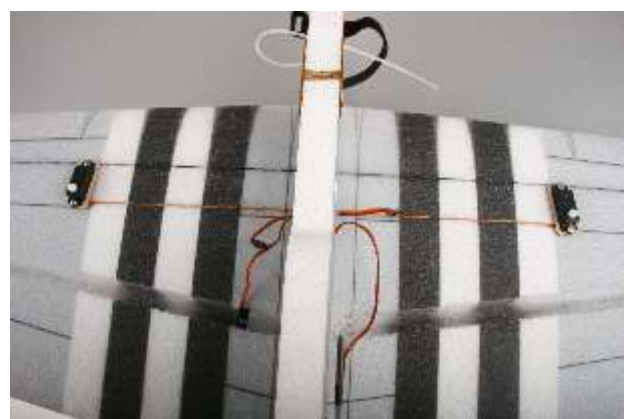
9. Drop some glue on the joints of fuselage and wing to fix (both upside and downside).



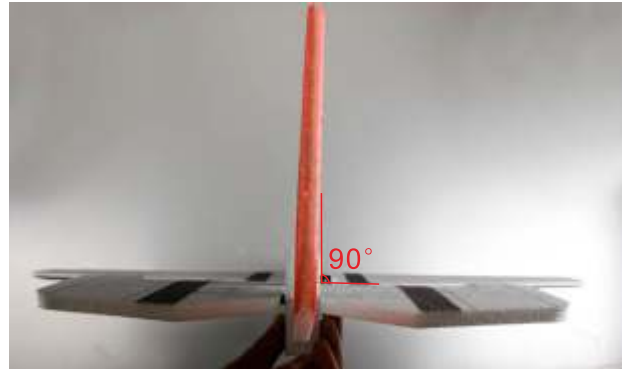
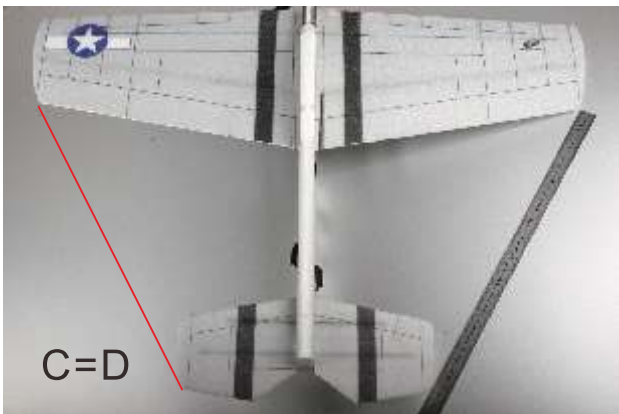
10. Install aileron servo into servo mount as picture shown.



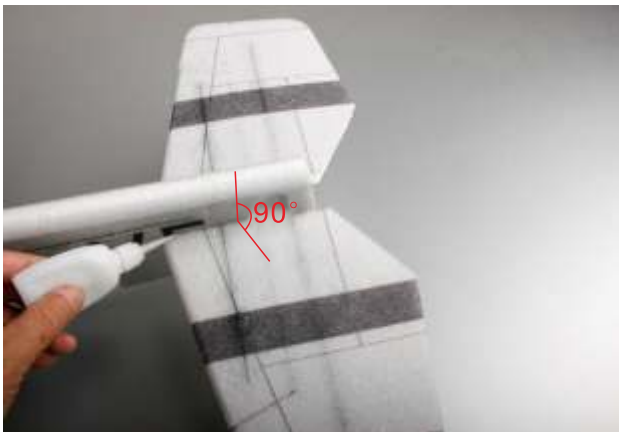
11. Put the servo into the pre-cut servo hole, then use glue to fix the servo mount onto the wing.



12. And fix the servos onto the plywood servo mount with included screws. Use knife to cut slots on wing, then embed aileron servo leads as picture shown.



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

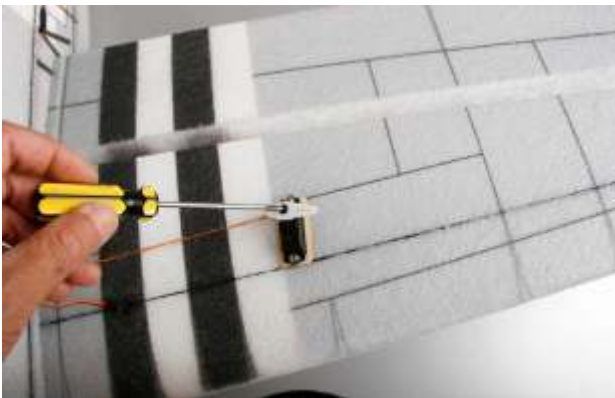


14. Drop some glue on the joints of elevator and fuselage to fix.

15. Use CA to fix the rudder.



16. Trim servo arms as picture show.



17. Fix trimmed servo arm with included screw.



18. Same operation on elevator & rudder servos.



19. Install pushrod adjuster into the hole of servo arm extension.

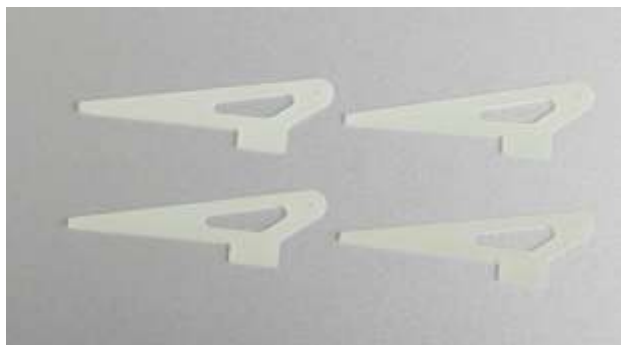


20. Fix servo arm extension on servo arm with 2pcs 2*4mm self tapping screws.

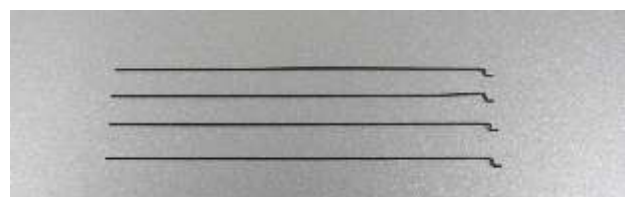




21. Same operations on rudder & elevator servos.



22. Cut a slot on control surface along a ruler, and insert control horn into this slot, then use CA to fix. The same operation on aileron, elevator & rudder control horns.



23. Connect Z bend into the hole of control horn.



24. Reserve proper length of Z bend, then cut off additional part that you don't need.



25. Put one end of steel wire into the hole of adjustor, then fix with screwdriver.



26. Same operation on elevator & rudder pushrods.



27. Install wheel blocks to fix wheels.



28. Insert landing gear frame into the slot on bottom fuselage, please refer to picture.



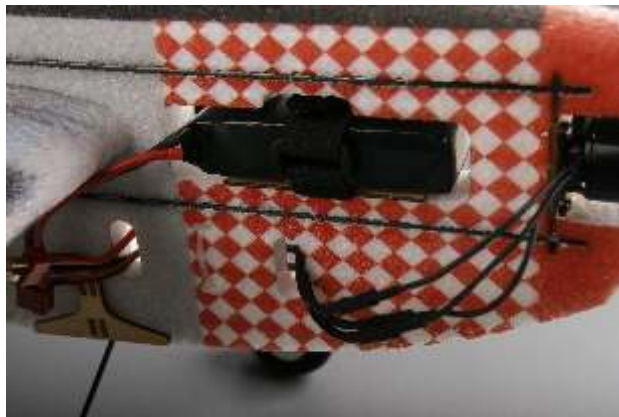
29. Use included screws to fix the motor onto the motor mount.



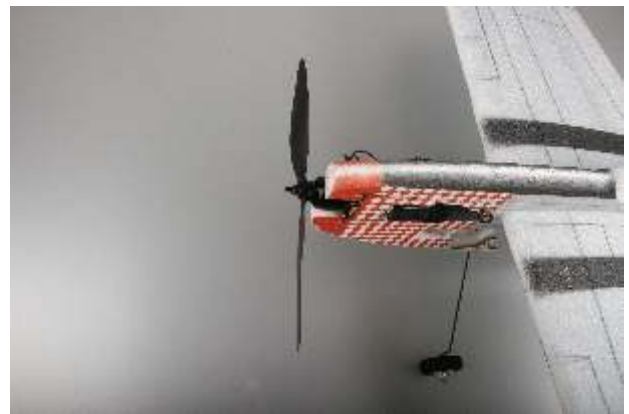
30. Connect motor and ESC, then adjust to correct motor running direction before flying. Put ESC into the slot of downside fuselage.



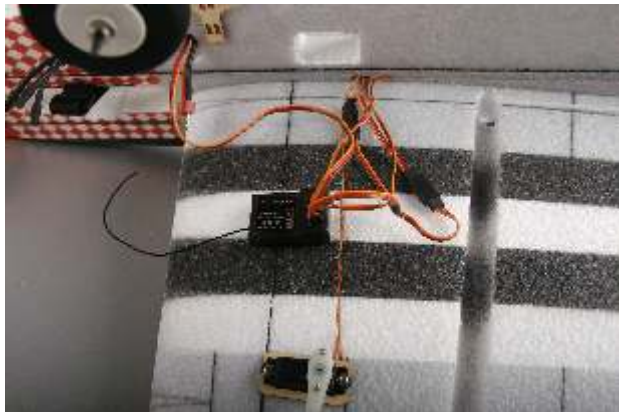
33. After test, put the receiver into the receiver slot. (see picture).



31. Insert battery into the battery hole.



34. Install propeller.



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



35. A perfect P51 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.

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