

Before operating this unit, please read these instructions completely.

# TEK SUMO

## Instruction Manual



**Features:**

1. Tek sumo is a very popular EPP flyingwing, it is suitable for outdoor flying.
2. Made of High quality EPP material, it is very strong , durable, easy to fly .
3. Very easy to build , because most of the parts pre-assembled in our factory already . You will see it from the attached files.

**Product Specifications**

Fuselage length: 575mm (22.6in.)  
 Wingspan: 900mm (35.4in.)  
 Flying Weight:300--350g (with battery)  
 Motor: 2208 KV 1370 or Hk2818 KV1350  
 ESC: 15-20 Amp  
 Propeller: 7050E OR 6050E  
 Servo: 8g micro servo \* 2pcs  
 Radio: 4/more channel  
 Battery: 11.1V 800-1200mAh Li-po 20C

**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: 15degrees up and 15degrees down (28mm)

Max servo travel of elevator: 15 degrees up and 15 degrees down (28mm)

CG Position:

200-212 mm from the leading edge of the wing,.



**parts included in the packing**



- |                          |      |
|--------------------------|------|
| 1. Wing (right and left) | 1pcs |
| 2. Wing fences           | 2pcs |
| 3. EPP skid              | 1pcs |
| 4. Z bend                | 2pcs |
| 5. Control Horn          | 2pcs |
| 6. Servo mount           | 2pcs |
| 7. Carbon rods           | 3pcs |
| 8. Plastic band          | 4pcs |
| 9. Motor mount           | 1pcs |
| 10. Pushrod connector    | 2pcs |
| 11. Battery velcro       | 1pcs |
| 12. Tape                 | 1pcs |

**The items below are required for assembly**



1. Glue the left and right wing by using CA glue, must be working in a flat surface, to ensure the two wings can not be distortion.



2. Put 2 pcs carbon rods into the pre-cut slots of the wing back by using CA to glue



3. Put another carbon rods into the pre-cut slot of the front wing by using CA to glue.



4. Install the motor mount by using CA, pls make sure to paste flatly, can not be bend up and down, if bend, will affect the motor thrust wire, and also affect the flying performance.



5. Glue the battery velcro by using CA.



6. Thread the plastic band through the pre-cut hole of the wing.



7. Install the pushrod connector onto the first hole of the servo arm, and then install the servo arm onto the servo, pls make sure the servo arm is in the neutral position.



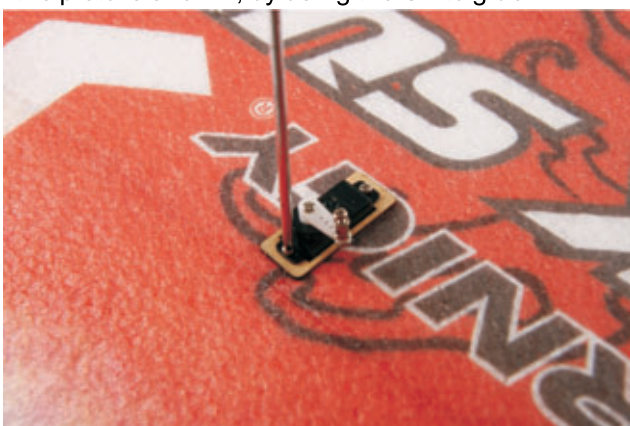
8. Install the servo into the servo mount.



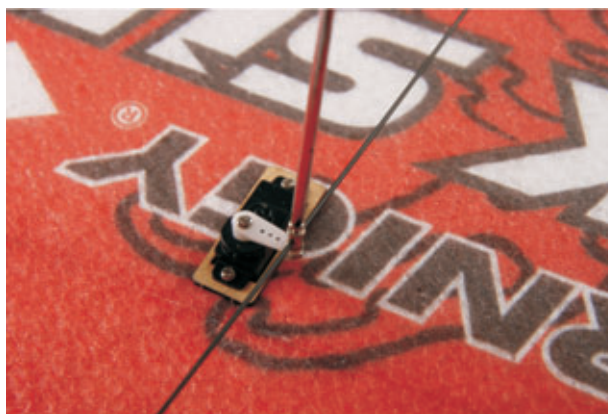
9. Install the servo onto the pre-cut servo hole as the picture shown , by using the CA to glue .



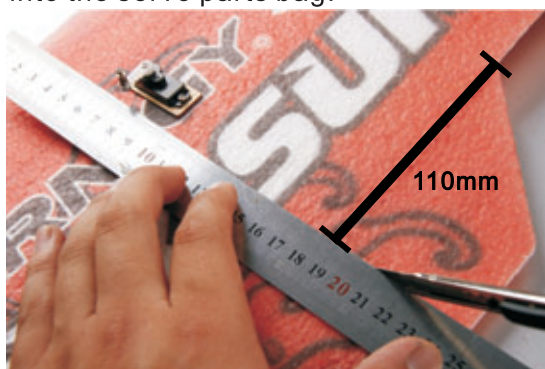
13. Using the CA to glue the control horn.



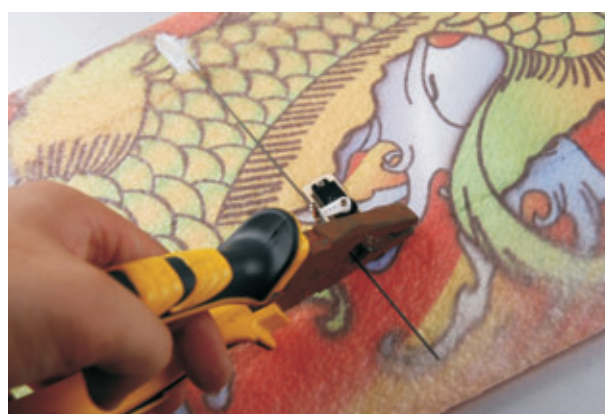
10. Fix the servo onto to the sevo mount by using 2pcs self-tapping screw which included into the servo parts bag.



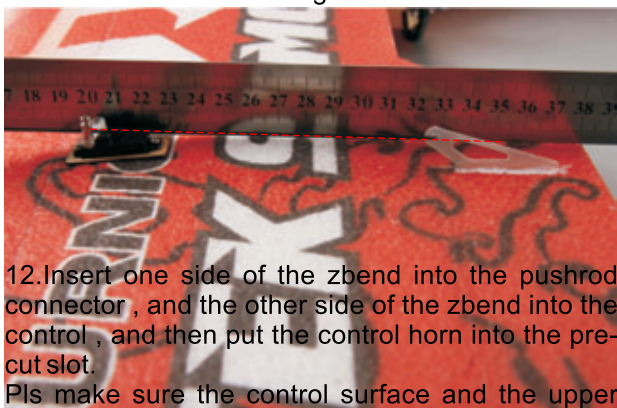
14. Using the screwdriver to tighten the screw.



11. Pls cut a slot by using knife as the picture shown , it's convenient for installing the control horn.



15. Using the pilers to cut off the excess steel wire.

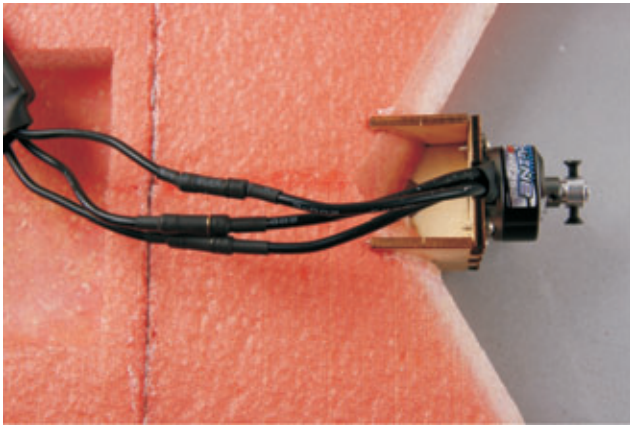


12. Insert one side of the z-bend into the pushrod connector , and the other side of the z-bend into the control , and then put the control horn into the pre-cut slot.

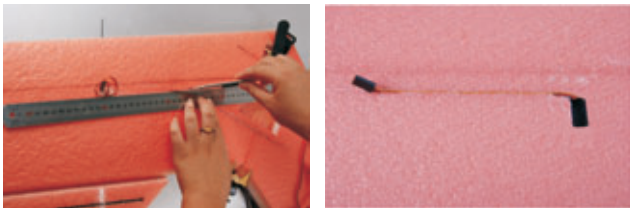
Pls make sure the control surface and the upper surface should be in a line before glue the control horn , can not be bend up and down.



16. Install the motor by using the self-tapping screws which included into the motor parts bag.



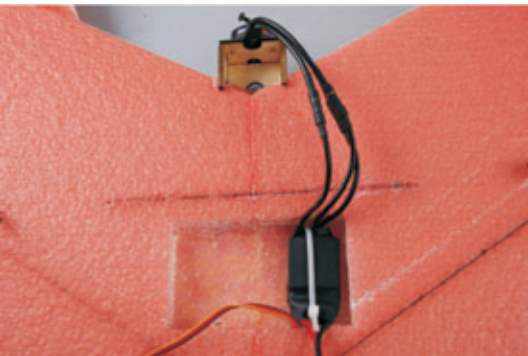
17. Connect the esc and motor , but pls confirm the the direction of motor rotation before flying.



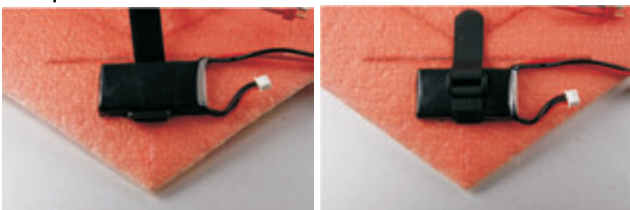
18.As the picture shown , using a knife to open a servo wire slot , so that the wire can easily reach to the equipment compartment , and then put the servo wire into the pre-cut slot.

Attention: 1. pls using the servo extension wire for the servo wire is not long enough.

2.Can not use Y -harness, pls set the mix control for the aileron and the elevator.



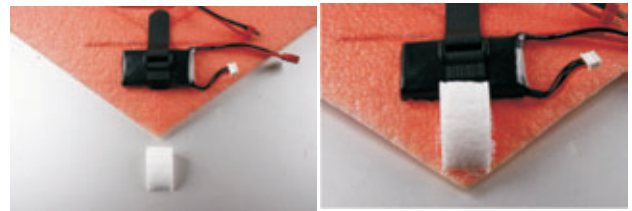
19.Fix the ESC by using the plastic band , as the picture shown.



20.Fix the battery by using velcro.



21.Connect the servo plug and esc plug to the receiver , and then test , finally , using the plastic band to fix the receiver into the equipment compartment.



22.Glue the EPP skid onto the nose of the flying wing , so that can prevent from damaging the battery or receiver upon landing.



23.Glue the two wing fences by using CA.



24.Fix the propeller by using O-ring.



25.Pls make sure to adjust the CG ( 200-212mm ) of the flying wing before fly it , because the CG is very improtant to the flying wing.

A perfect Tek sumo 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.



This tape for you repairing or reinforcing the plane.