



TECHone™

Before operating this unit, please read these instructions completely.

ARROW 3D

Instruction Manual



Features:

1. ARROW 3D EPP is a superb model for FUN aerobatic flying. It's made of "almost unbreakable" EPP material and by the modern technology in CNC machines.
2. The flying time of ARROW 3D EPP is 8-15 minutes, it depends on the flying figures. The model is able to "torque roll" and after giving enough "gas", can rise vertically up, loop in "knife-shape" flight and all other aerobatic figures.
3. Easy to landing.
4. Easy to assemble, and most of parts are pre-assembled in our factory.

Product Specifications

Fuselage length: 955mm (37.6in.)
Wingspan: 800mm (31.5.0in.)
Flying Weight: 350--400g (with battery)
Motor: 2208 KV 1260
ESC: 20-30 Amp
Propeller: GWS 8x4HD or 8x3.8 sf
Servo: 8g micro servo*4pcs
Radio: 4/more channel
Battery: 11.1V 800-1000mAh 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: 30 degrees up and 30 degrees down (50mm)

Max servo travel of elevator: 45 degrees up and 45 degrees down (50mm)

Max servo travel of rudder: 45 degrees left and 45 degrees right (60mm)

CG Position:

95-100mm from the leading edge of the wing.

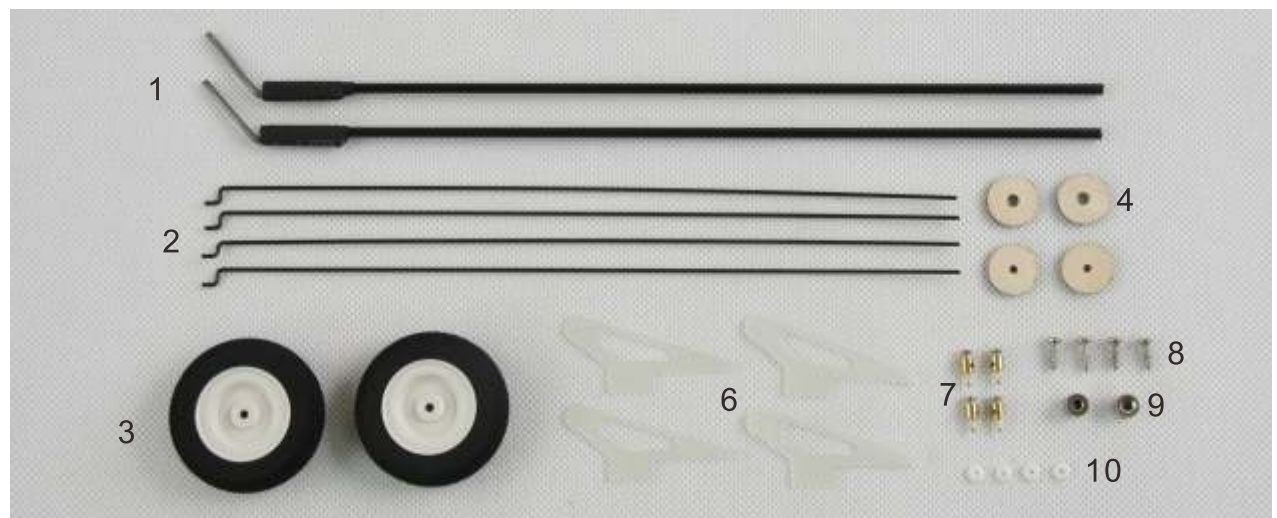


Parts included in the packing



1.Wing 2.Fuselage & vertical tail 3.horizontal tail 4.EPP landing gear supporter

5.EPP Wheel cover



- | | |
|---------------------------------------|------|
| 1. Landing gear supporting carbon rod | 2pcs |
| 2. Pushrod | 4pcs |
| 3. Wheel | 2pcs |
| 4. Plywood landing gear reinforcement | 2pcs |
| 5. Plywood wheel cover supporter | 2pcs |
| 6. Glass fiber control horn | 4pcs |
| 7. Copper adjuster | 4pcs |
| 8. Motor self tapping screws | 4pcs |
| 9. Metal wheel stopper | 2pcs |
| 10. Copper adjuster fixing ring | 4pcs |



wing.



Insert wing into the slot of fuselage, and ensure it is in a horizontal level symmetrically.



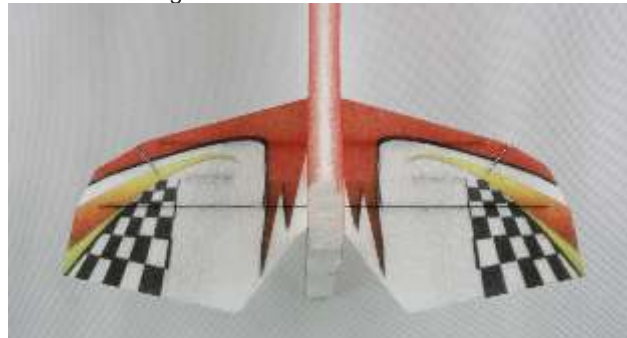
Make sure left and right wing is symmetric, then glue the wing well.



horizontal tail.



Use art knife to cut out horizontal tail's insert-location on rear fuselage.



Insert horizontal tail into the slot, and ensure it is in a horizontal level symmetrically.



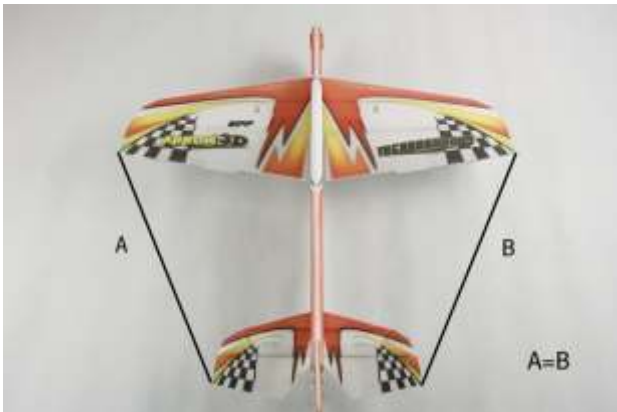
Make sure left and right stabilizer is symmetric, then fix them with glue.



Rudder(vertical tail) .



Keep rudder vertical, then fix it with glue.



After wing and horizontal tail were installed, make sure $A=B$.



Plywood landing gear reinforcement .



Glue the plywood landing gear reinforcements on corresponding places on bottom wing.



Landing gear set.



Glue landing gear supporting carbon rod onto EPP landing gear supporter.



Insert the stainless steel end of landing gear supporting carbon rod in the wheel hole.



Then install the metal wheel stopper and fix with hexa-screw driver.



Install the plywood wheel cover supporter, then fix with glue.



Installed landing gear.



Paste EPP wheel cover onto wheel cover supporter, and glue it well.



Plane picture after assembly.



Finished landing gear.



Install AS2208-15 KV1260 motor with self-tapping screws.



Install the landing gear as picture shown.



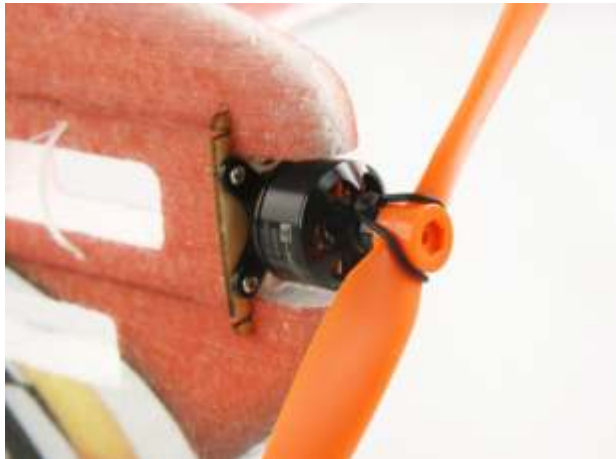
GWS 8040



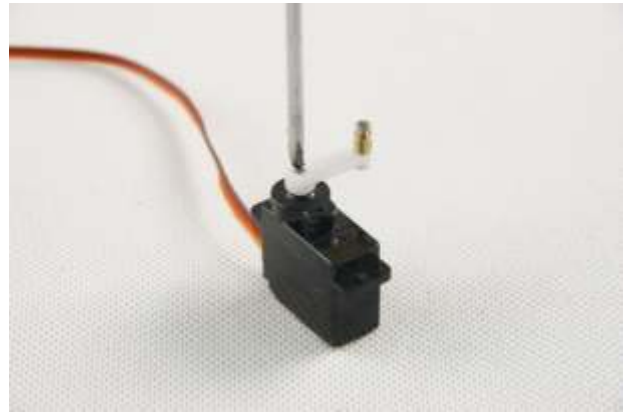
Install propeller.



Install servo arm on servo.



Use O ring to fix the propeller.



Fix it as picture shown.



Use reamer to enlarge the 1st hole of servo arm.



Put aileron servo into the servo house, and glue it well.



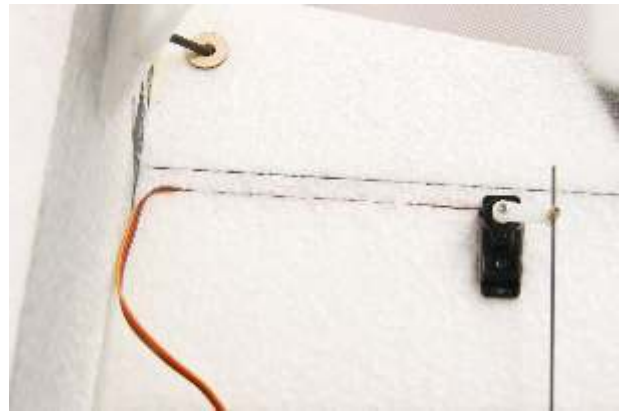
Install copper adjuster, and fix with adjuster fixing ring.



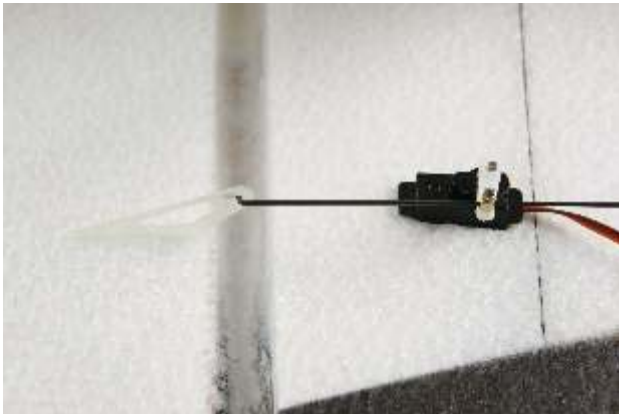
Cut a slot for control horn along the ruler.



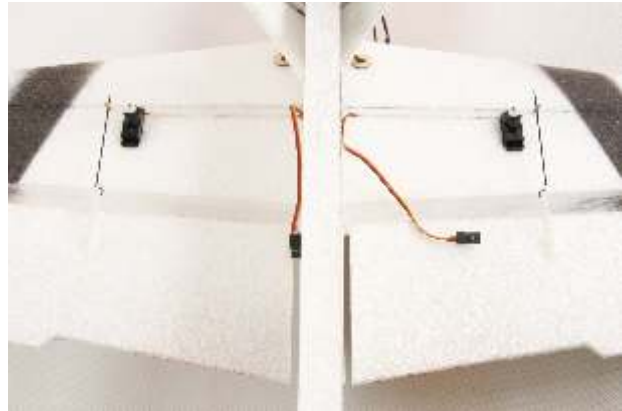
Insert the glass fiber control horn into the slot, then fix with glue.



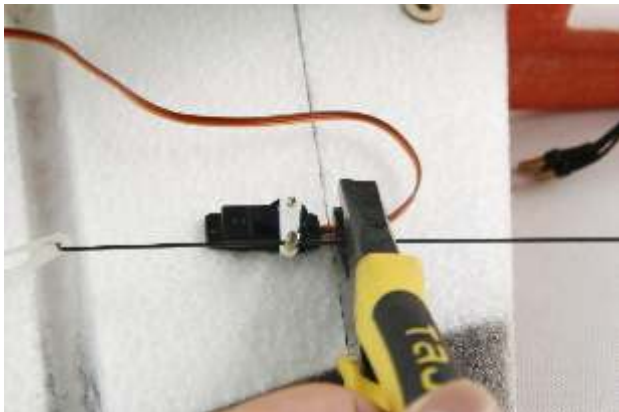
Embed servo leads into the slot.



Thread the push rod through the adjustor, and connect another end with Z bend to control horn.



Installed aileron servos.



Use pliers to cut off the redundant wire.



Use reamer to enlarge the 1



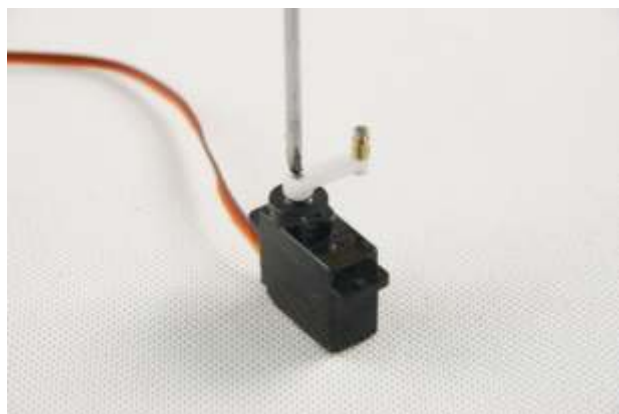
Cut a slot along the ruler.



Install copper adjustor, and fix with adjustor fixing



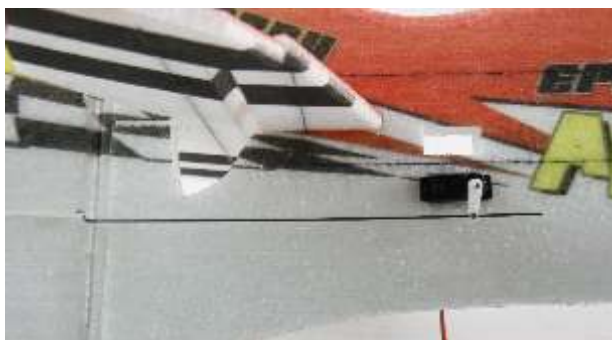
Install servo arm on servo.



Fix it as picture shown.



Insert the glass fiber control horn into the slot, then fix with glue.



Thread the push rod through the adjuster, and connect another end with Z bend to control horn.



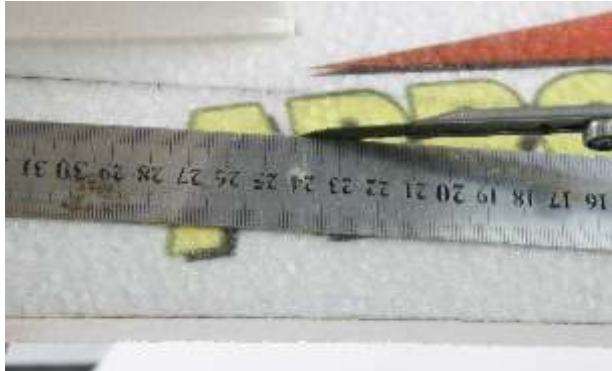
Put rudder servo into servo house, and glue it well.



Use pliers to cut off the redundant wire.



Cut a slot for control horn along the ruler.



Cut a slot along the ruler.



Embed servo leads into the slot.



Thread the push rod through the adjuster, and connect another end with Z bend to control horn.



Put elevator servo into servo house, then glue it well.



Use pliers to cut off the redundant wire.



Cut a slot for control horn along the ruler.



Cut a slot along the ruler.



Fix the control horn with glue.



Embed servo leads into the slot.



ESC 20A—30A



Battery 3S 11.1V 1000MAH



Connect motor and ESC.



Put battery into the slot of fuselage.



Receiver



After inserting all servo leads into receiver, put ESC and servo into equipment cabin, then fasten them with nylon strap.



A perfect ARROW 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.