

# 44in Aviator Pro ARF



Wing Span: 1120mm (44in)

Length: 900mm (35in)

Flying Weight: 980g

## Suggested Configuration

Motor: 2216 1000KV, included.

Battery: 1500mAh --2200mAh 3S, not included.

ESC: At least 30A, not included.

Servos: 5 micro servos, such as Towerpro MG90s, not included.

Prop: 9 x 5 electric prop, not included.

Radio: At least 4CH, not included.

One 6in Y-harness, not included.

## Parts of the Airplane and Accessories



## Assembling the Airplane

Wing assembly needs the following accessories.



Secure the CA hinges to the aileron using CA glue.



Properly align the aileron with the wing and then secure with CA glue.



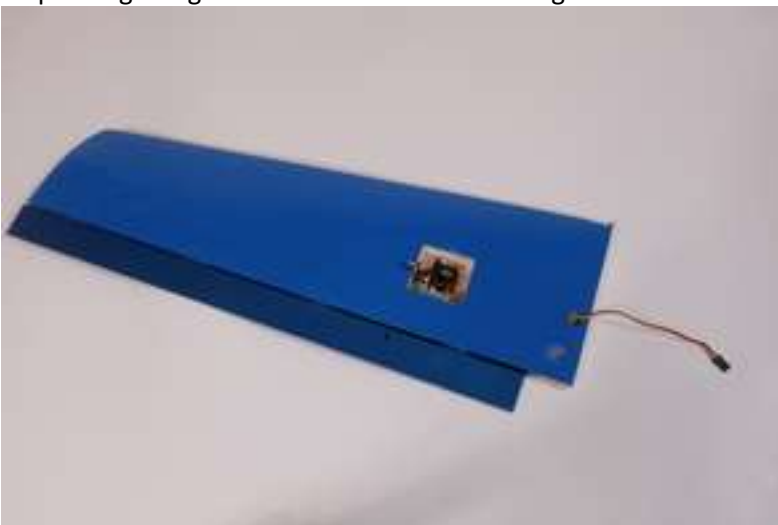
Secure the servo mounting bracket to the wing using CA glue.



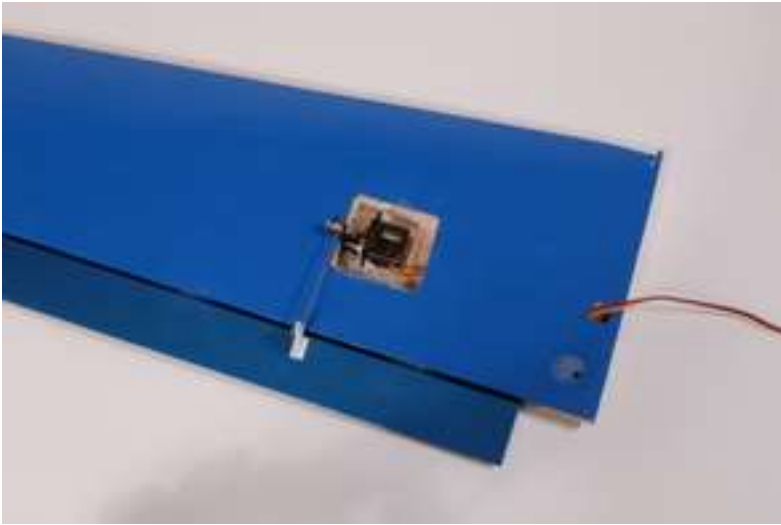
Assemble the pushrod EZ connector on the servo arm.



Install the micro servo in the servo mount. The servo lead needs to go a short distance inside the wing. Tweezers might help with getting the servo lead out of the wing.



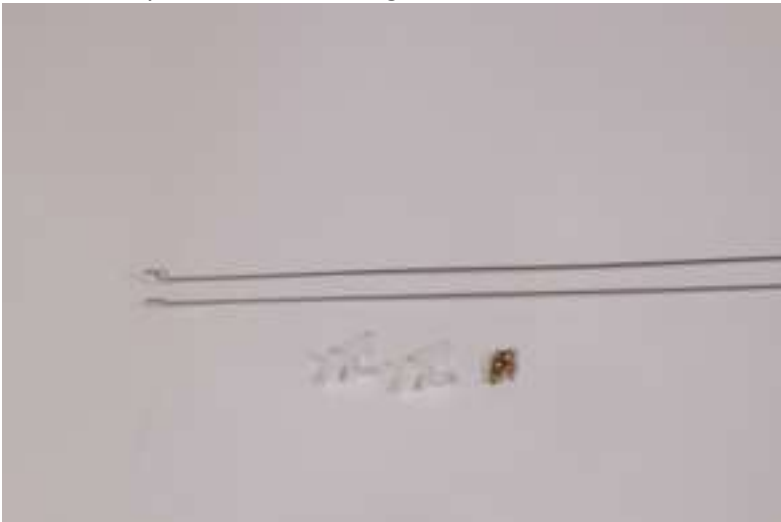
Install the pushrod and control horns on the aileron and connect to the aileron servo.



Only for the left side wing, install the 3mm\*14mm pin on the side of the wing as shown below and secure it using CA glue.



Tail assembly needs the following accessories.



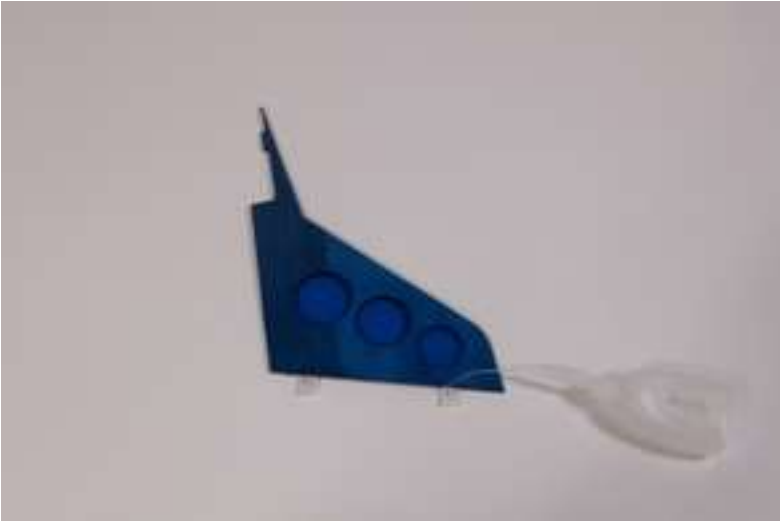
Install the hinges on the horizontal fin and secure them using CA glue.



Install the hinges onto the elevator and secure them using CA glue.



Install the hinges on the rudder and secure them using CA glue.



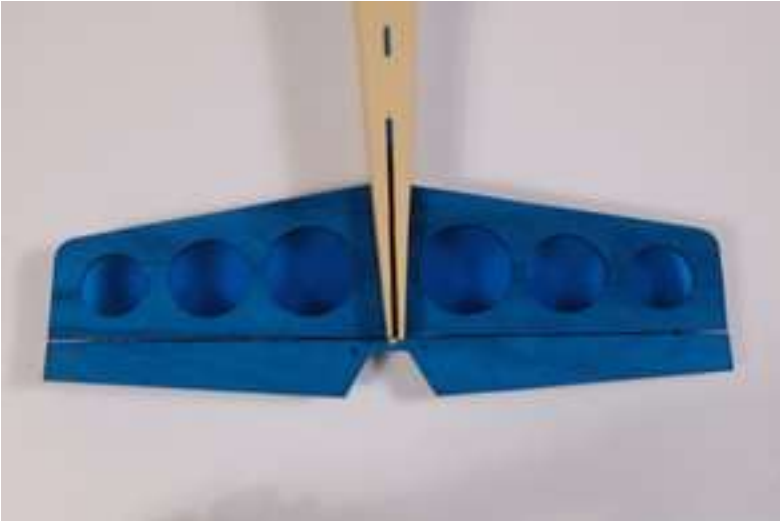
Slot the horizontal fin into the fuselage and mark the edge of the fuselage on the covering.



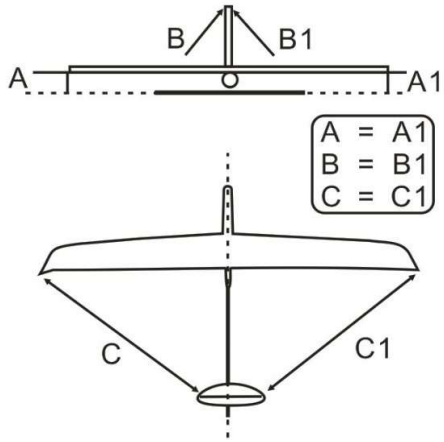
Cut away the covering using a hobby knife along the markings you made in the previous step.



Make sure the elevator is properly centered with the fuselage. Use the same process to center the rudder.



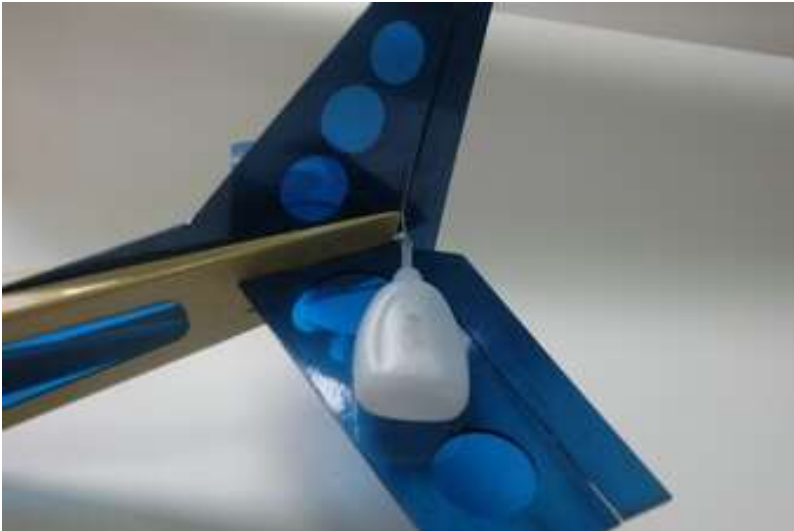
Make sure the elevator and rudder are properly aligned.



Secure the vertical stabilizer to the fuselage using CA glue.

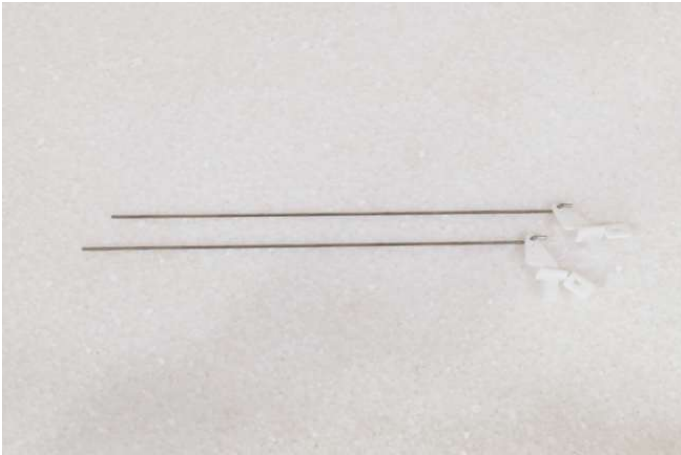


Install the hinges onto the vertical fin and secure them using CA glue.

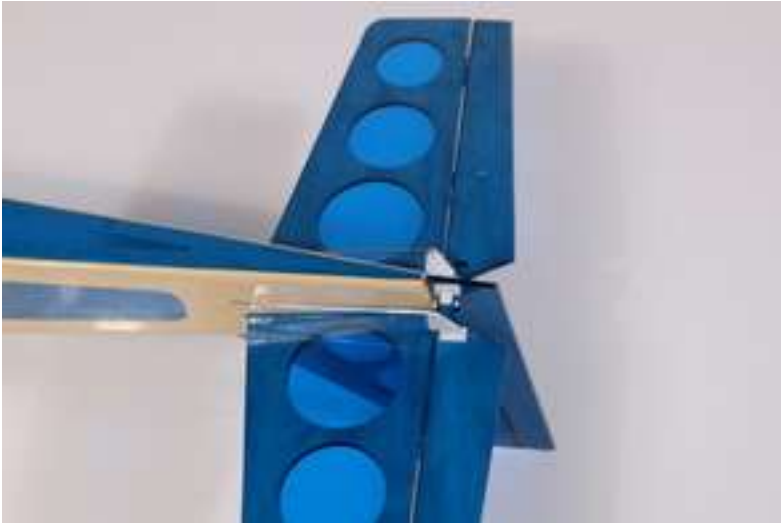




Assemble the two tail pushrods with the clevis and control horns as shown below.



Locate the control horn opening on the rudder. Install the control horn on the rudder. Locate the rudder pushrod opening on the fuselage. Guide the pushrod through the opening and secure it to the control horn.



Locate the control horn opening on the elevator. Install the control horn on the elevator. Locate the elevator pushrod opening on the fuselage. Guide the pushrod through the opening and secure it to the control horn.



Landing gear installation needs the following accessories.



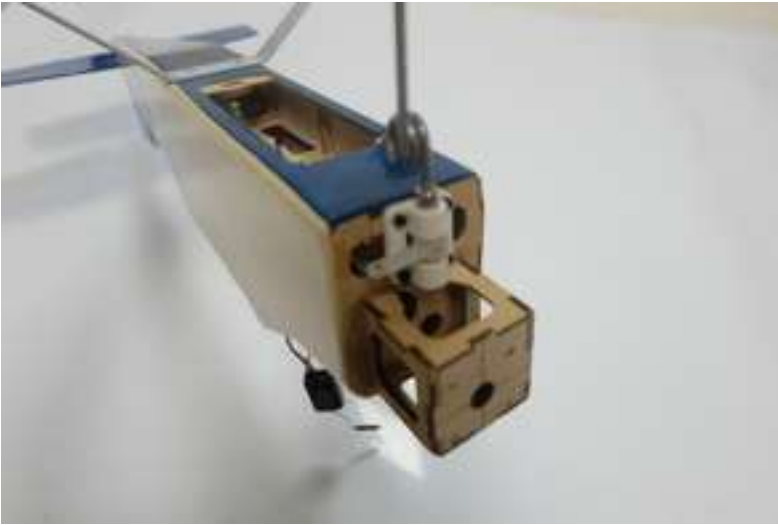
Slide the wheel on the axle and use the other wheel collar to secure the wheel to the axle.  
(Need to check if the wheel spins freely after installation.)



Secure the assembled landing gear to the fuselage using two M3\*16 screw.



Install the nose landing gear on the front of the fuselage.



Adjust the front landing gear angle, keep the tire centered to the fuselage, and lock the steering pushrod.



Motor installation will need the following accessories.



Install the radial mount on the electric motor. Secure the radial mount to the fuselage using four M2\*12 screws.



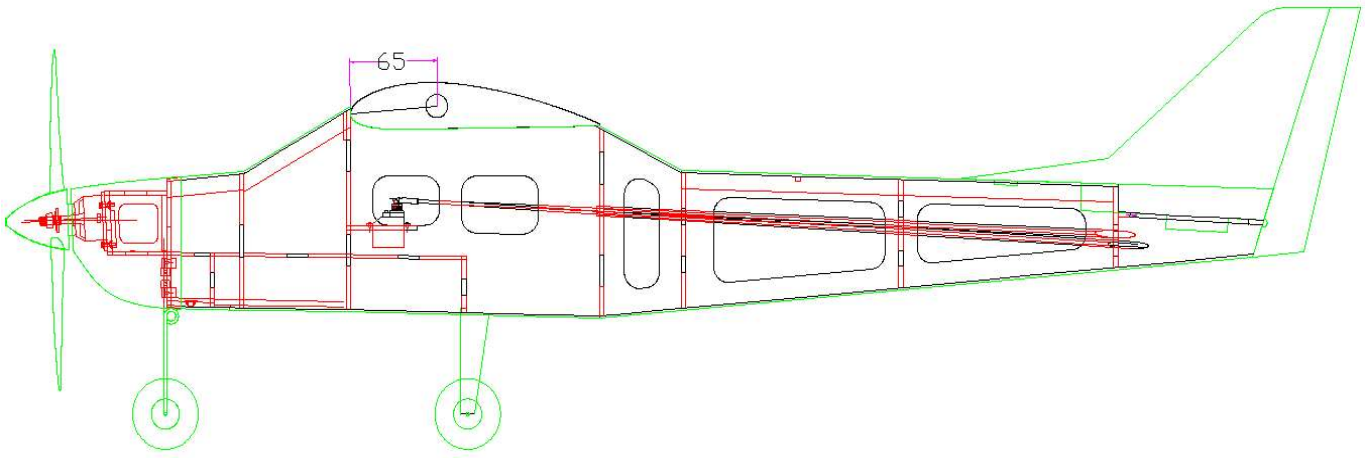
Adjust the cowl and put it to the front fuselage as pictured.



Install the prop to the motor.



## Suggested CG



For the first flights, the suggested center of gravity location is **65mm** behind the leading edge of the wing at the wing root. Use the battery pack, moving it forward or backward, to achieve the correct balance.

## Suggested Control Throws

For beginners we suggest control throws of 30-50% on your programmable radio for the aileron, rudder and elevator. For advanced users we suggest control throws of 60-80% on your programmable radio for the aileron, rudder and elevator.