

# A10 WARTHOG

R/C Airplane Model

## Instruction manual



**Blitz** Works  
**ZRC**

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# A10 WARTHOG

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## Brief Introduction

Thank you for purchasing A10 Warthog model airplane. As the top of line EDF jet in the market, it is a 9 Channel Full Function Radio Controlled aircraft (Aileron, Elevator, Throttle, Rudder, Retract, Airbrake Flaps, Mechanical Canopy Opening, Cockpit Ejection). This aircraft has exceptional thrust to weight ratio for optimal flight performance as this aircraft has been configured with a twin 70MM EDF. It's super scaled to achieve the scaled appearance. Please be assured that this jet can bring you much joy and fun.

## Specification

- ◆Wingspan: 1500mm (59 in)
- ◆Length: 1400mm (55.1 in)
- ◆Flying Weight: 2450g (86.4 oz)
- ◆Motor:2x 2100KV Outrunner Brushless Motors
- ◆ESC: 2x 50A Brushless
- ◆Thrust: >2800g (more than 99 ounce of thrust)
- ◆EDF Diameter: 2x 70mm
- ◆Servo: 10X 9g
- ◆Retract: Threaded rotary shaft driven
- ◆Battery: 22.2V 6S 3600mAh 25C Li-Polymer
- ◆Control system: 12CH 2.4GHz Radio
- ◆Canopy Opening: Threaded rotary shaft driven



## Caution

1. This product is not a toy. Adult supervision is required for pilots under 14 years of age.
2. Warnings listed in the instructions must be read carefully and heeded.
3. This aircraft should only be operated by experienced and advanced pilots.
4. Improper adjustments and usage will result in crashes and damage to the item.
5. Experience is required prior to handling this product and it can be obtained by practicing with novice RC aircrafts or computer flight simulator softwares.
6. Before starting any assembly, please connect the servo leads to receiver to test and ensure that all control surfaces respond correctly.

## Safety Precautions

1. Do not fly during bad weather conditions such as strong winds, rain or thunderstorms.



2. Never fly the model around power lines, highways, subways or any high traffic areas.



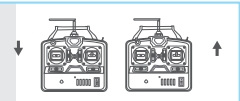
3. Do not fly where there are crowds of people.



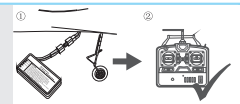
4. Do not fly where there are other flying model planes with same frequency or there are other jamming radio waves nearby.



5. Make sure that the model, as well as the radio system, is in the good condition before flight.



6. Only use BlitzRCworks accessories as replacement for damaged parts.



7. Do not attempt to catch the plane by hand while the plane is flying.



8. This model is recommended for pilots over the age of 14 with experience. If pilot is younger or a novice then we recommend you get assistance from an experienced model pilot.





## Safety Instruction for Li-poly Batteries

01. Do not disassemble or reconstruct the battery.
02. Do not short-circuit the battery.
03. Do not use or leave the battery nearby the fire, stove or heated place.
04. Do not submerge the battery in water and do not get it wet.
05. Do not charge the battery nearby a fire or under direct sunlight.
06. Do not drive a nail into the battery, strike it by hammer or tread on it.
07. Do not impact or throw the battery.
08. Do not use the battery with conspicuous damage or deformation.
09. Do not make the direct soldering on the battery.
10. Do not reversely charge or over discharge the battery.
11. Do not reverse charge or reverse connect.
12. Do not connect the battery to the ordinary charger socket or car cigarette jack.
13. Do not use the battery for unspecified equipment.
14. Do not touch a leaking battery directly; please wash the contact area or clothing with water if they come in contact with the liquid leaking from the battery.
15. Do not mix the Li-Poly battery with other un-chargeable battery .
16. Do not continue charging the battery over the prescribed time.
17. Do not put the battery into the microwave oven or high-pressure container.
18. Do not use the abnormal battery.
19. Do not use or keep the battery under the sunlight.
20. Do not use the battery where there maybe static electricity (over 64V).
21. Do not charge the battery when the environmental temperature is under 0°C or over 45°C.
22. If you find the battery leaking or abnormal, stop using it .
23. Keep the battery away from the children.
24. Use the specified charger and check charging parameters (under 1.5A)
25. Parents should supervise and show the children the correct way to charge.

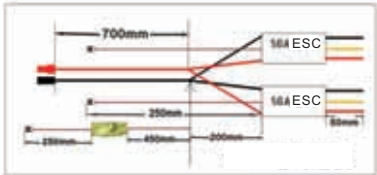
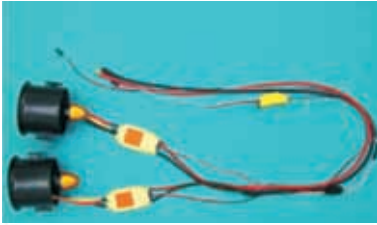


## Caution for Battery

1. Use the original charger. Never charge the battery at more than 1.5 A.
2. Never discharge the battery at more than 5C. Do not discharge too long as this will damage the battery.
3. For full flight time to be achieved please cycle the cells through three flights.
4. Never charge the battery on a carpet floor as this can cause a fire!
5. In order to maintain the voltage and prolong the life time of the battery, please recharge it if it has not been used for more than three months.

## Assembly

### 1.Assembly for ducted fan



1.1 Assembly for ESC



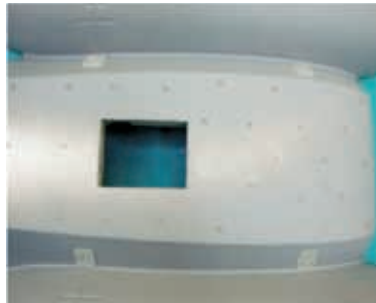
1.2 Punch holes at the marked locations.



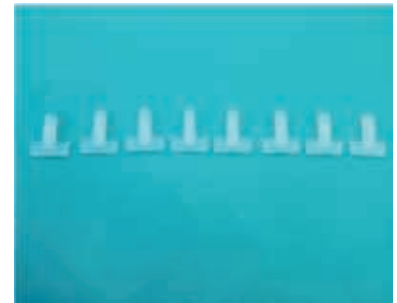
1.3 Locate the 8pcs of reinforced plastics.



1.4 Inject some glue in the slot.



1.5 Glue the reinforced plastics in place.



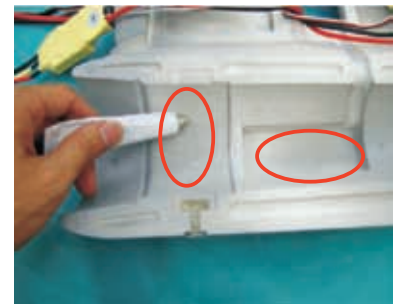
1.6 Locate the 8pcs of holders.



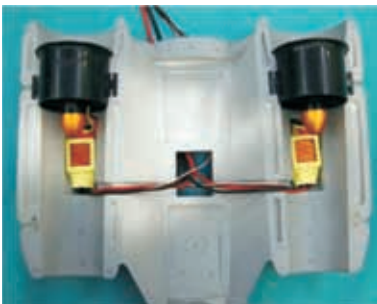
1.7 Insert the holders in slots and fill the space with foam safe hot glue.



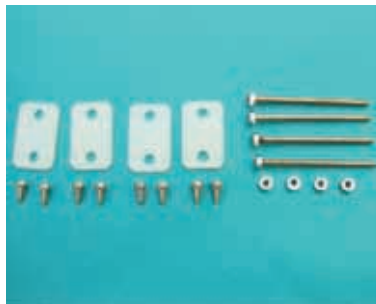
1.8 The holders are secured as shown.



1.9 Spread some glue in place for ducted fan and ESC.



1.10 Install the ducted fan and ESC.

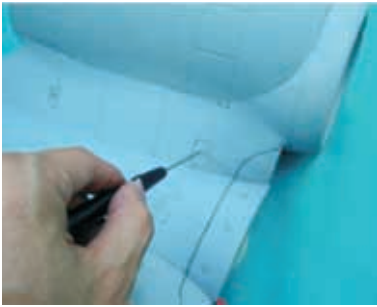


1.11 The following accessories are needed for fixing the ducted fan cover: 4pcs plastic tabletingts, 8pcs 2\*5 screws, 4pcs 2\*34 screws and 4pcs nuts.



1.12 Secure the ducted fan cover with the provided screws.

## Assembly

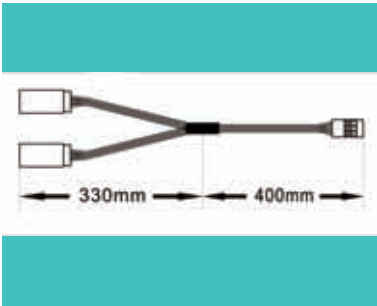


1.13 Secure the ducted fan cover with the screws provided.

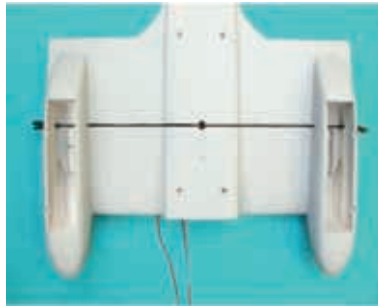


1.14 Bind all the wires together.

### 2. Assembly for wires of aileron and flap.



2.1 Specification for wires of ailerons and flaps.

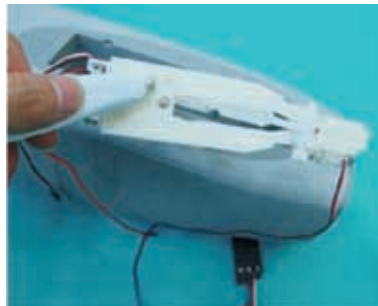


2.2 Install the wires according to the picture.

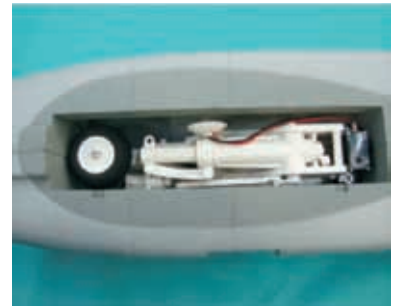
### 3. Assembly for retractable landing gear.



3.1 Retractable landing gears are as shown.



3.2 Apply some glue on the bottom of landing gear.



3.3 Install the front landing gear according to the picture.



3.4 Locate the accessories as shown to assemble the front landing gear.



3.5 Punch a hole in the slot.



3.6 Spread some glue on the hinges, and then insert the hinges into the holes.

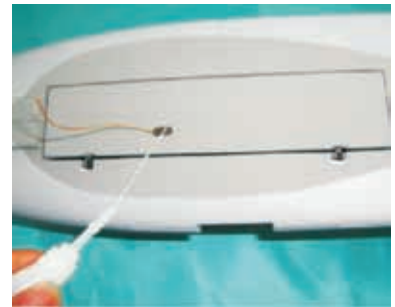
## Assembly



3.7 Install the cover according to the picture.



3.8 Assemble the strings according to the picture.



3.9 Fasten the cover by string, and then fix it by glue.



3.10 Assembly for back landing gear is same as front landing gear.



3.11 Assembly for back landing gear is finished.

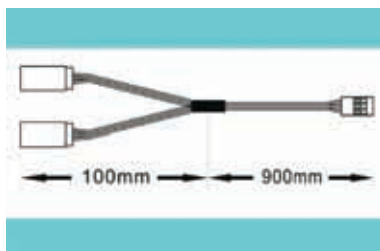


3.12 Bind the wires together.

### 4. Assembly for horizontal tail wing.



4.1 Need the following accessories for installing the horizontal tail wing: 2pcs servos with 250mm wire (1pc positive servo and 1pc reversed servo), 2pcs 28mm push rod, 2pcs buckles and 4pcs 7\*18mm screws.



4.2 Specification for elevator servos.



4.3 Install the servos in place.



4.4 Install the horns on elevator.



4.5 Install the push rod according to the picture.



4.6 Install the wires according to the picture.

## Assembly

### 5. Assembly for vertical tail wing.



5.1 Need the following parts to assemble the vertical tail wing: 2pcs 33mm long push rods, 2pcs buckle, 4pcs 1.7\*10mm screws and 6pcs hinges.



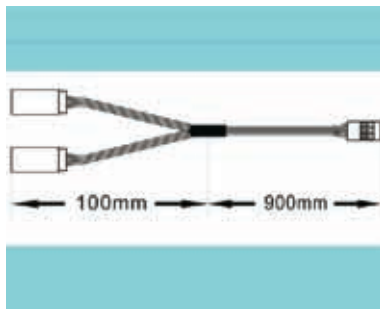
5.2 Punch a hole in the slot. Then spread some glue on the hinges and insert the hinges into the holes.



5.3 Install the rudder in place.



5.4 Install the horns on rudder.



5.5 Specification for wire of rudder servos.



5.6 Locate 2 servos with 300mm wires.



5.7 Apply glue on servos and insert the servos into the slot.



5.8 Install the push rods as shown.



5.9 Assembly for vertical tail wing is finished as shown.



5.10 Apply some glue in slot shown above.



5.11 Connect the horizontal tail wing and vertical tail wing together as shown.



5.12 Assembly is finished.

## Assembly

### 6. Assembly for main wing.

Need 2pcs aileron servos with 260mm wires and 2pcs flap servos with 90mm wires (1pc positive servo and 1pc reversed servo).



6.1 Bind all the wires together.



6.2 Need the following parts: 2pcs 39mm aileron push rods, 2pcs 23mm flap push rod, 4pcs buckle, 4pcs 1.7\*18mm screws and 4pcs 1.7\*15mm screws.



6.3 Install the horns in place .



6.4 Install the aileron servo in place.

6.5 Install the flap servo in place.



6.6 Install the aileron push rod as shown.



6.7 Install the flap servo push rod as shown.



6.8 Assembly for main wing is finished.

### 7. Assembly for fuselage.



7.1 Apply some glue on contact surface.



7.2 Assemble the front and back fuselages together.



7.3 Apply some glue on the contact surface.

## Assembly

### 8. Install ducted fan engine and fuselage together.



7.4 Install the tail wing on fuselage.



8.1 Apply glue on the contact surface.



8.2 Install the ducted fan engine on the fuselage.

### 9. Install the main wing and fuselage together.



9.1 Need 4pcs M3\*54mm screws.



9.2 Drive the screws in.



9.3 Finish assembling the fuselage and main wing.

### 10. Assembly for battery fasten belt.



10.1 120mm belt.



10.2 Cut a opening with knife.



10.3 Spread foam safe hot glue on the belt.



10.4 Install the belt as shown.

## Assembly

### 11. Assembly for canopy.



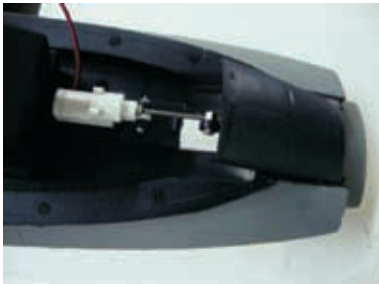
11.1 Canopy kit shown above.



11.2 Lift system shown above.



11.3 Apply some glue on the bottom and assemble the lift system as shown.



11.4 Assembled lift system is as shown.



11.5 Glue the back canopy on the lift system.



11.6 Front canopy is assembled as shown.



11.7 Lift system wire.



11.8 Apply some foam safe hot glue on the wire.



11.9 Secure the wire under the canopy as shown above.



11.10 Connect the wires.

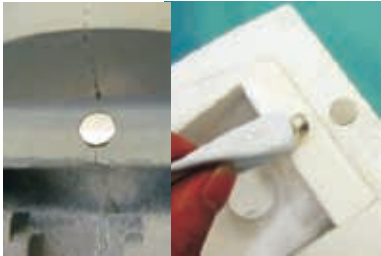


11.11 Locate two magnets and one plastic sheet.



11.12 Apply foam safe hot glue in the slot.

## Assembly



11.13 Install the magnets in the slot (one is S pole and the other one is N pole).



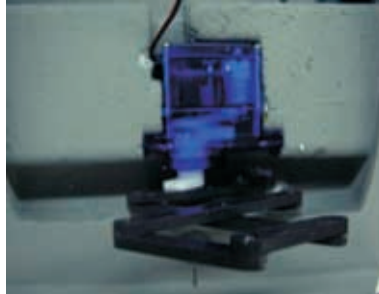
11.14 Install the plastic sheet in place.



11.15 Cockpit ejection system shown above.



11.16 Install the cockpit ejection system and servo arm together.



11.17 Assembled cockpit ejection system and servo.



11.18 Cut the chair off.



11.19 Apply some glue on the bottom.



11.20 Install the chair in place.

### 12. Assembly for pilot.



12.1 Locate 1pc 2\*6 screw and 1pc magnet.



12.2 Locate the pilot.



12.3 Inject foam safe hot glue in the slot.

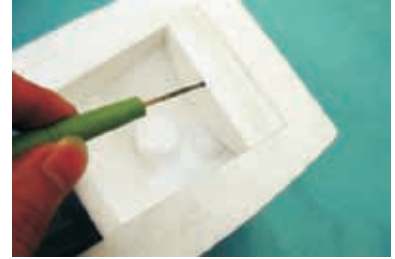
## Assembly



12.4 Install the magnet in place.



12.5 Drive a screw into foam.



12.6 Punch a hole in place.



12.7 Install the parachute string as shown.



12.8 Install the pilot and parachute as shown.

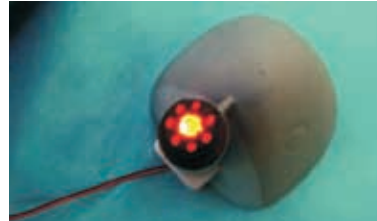


12.9 Assembly is finished as shown.

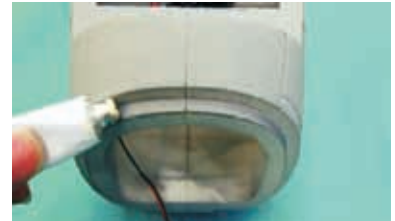
### 13. Assembly for front nose.



13.1 Locate the LED light with 500mm wire.



13.2 Test the LED light.



13.3 Apply glue on contact surface.

### 14. Assembly for receiver and landing gear controller.



14.1 Glue the front nose on fuselage.



14.2 Install landing gear controller as shown (Only Positive and Negative servo wires are to be connected)



14.3 Install the receiver as shown.

## Assembly



14.4 Expose the receiver antenna.

### 15. Assembly for battery



15.1 Install the battery as shown. (Do NOT connect battery at this time)

### 16. Connect the outer main wing and middle main wing together.



16.1 Locate two carbon pipes with 7mm diameter and 100mm length.



16.2 Insert the pipes into the holes and secure the pipes with glue.



16.3 Apply foam safe hot glue on contact surface shown above.



16.4 Connect the outer main wing and middle main wing together.



16.5 Install the wires of aileron servo and flap servo as shown.



## Assembly

### 17. Assembly for decorative parts.



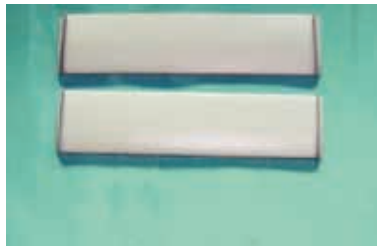
17.1 Decorative parts are as shown.



17.2 Inject some glue in the slot.



17.3 Install the decorating parts as shown.



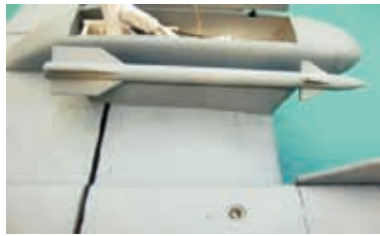
### 18. Assembly for missiles.



18.1 Install the missiles as shown.



## Assembly



### 19. Glue the decals on plane.



19.1 Decal is as shown.



19.2 Cut off all the decals one by one.



19.3 Soak the decals in water.



19.4 Don't get the decal out until the decal can part from backer.



19.5 Glue the decal in place and pull the backer out.



19.6 Dry the decal.

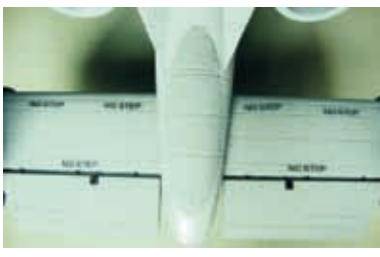


19.7 Glue the decals accordingly and refer to the photos as needed.



# A10 WARTHOG

## Assembly



## Preparation Before Flying

Make sure the switch on the transmitter is in the "OFF" position. Insert the 8 AA batteries in the transmitter. Ensure that the throttle is fully closed before powering up the transmitter. Then connect the battery to the ESC of the model airplane and place the battery in its proper position.



Test all joystick functions to ensure all control surfaces responds correctly. During testing, please make sure that the propeller will not hit any person or any object and ensure to hold the airplane in place so that the model unit will not take off.



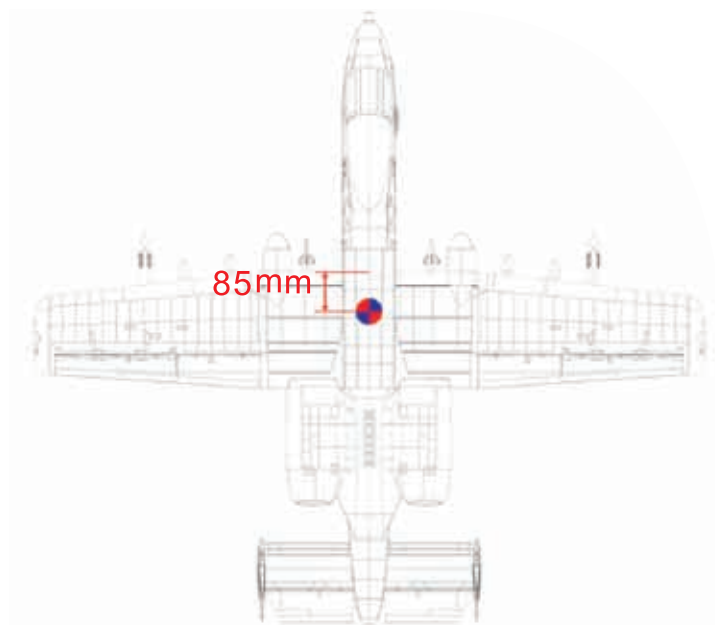
## Instructions for Normal Flight

Speed up			Left stick pushing up
Speed down			Left stick pulling down
Nose turn left			Left stick moving left
Nose turn right			Left stick moving right
Nose turn down/ descending			Right stick pushing up
Nose turn up/ ascending			Right stick pulling down
The body incline to left			Right stick moving left
The body incline to right			Right stick moving right



MODE 2 ONLY FOR REFERENCE !

### Position of CG



### Troubleshooting

Problem	Cause	Solution
Motor does not run	<ol style="list-style-type: none"> <li>1. Battery is not fully charged.</li> <li>2. The batteries of transmitter are not sufficient</li> <li>3. Check the wire connection inside the model</li> <li>4. The motor does not work due to impact or damage.</li> <li>5. The radio system is not binded.</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the batteries.</li> <li>2. Install a new set of batteries.</li> <li>3. Please contact your local distributor.</li> <li>4. Replace the motor.</li> <li>5. Please rebind radio system.</li> </ol>
No reaction for the control surface	<ol style="list-style-type: none"> <li>1. The servo wire was not inserted properly or inversely inserted.</li> <li>2. The servo is damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the connection of the servo wire.</li> <li>2. Replace the servo.</li> </ol>
Can not fly straight	<ol style="list-style-type: none"> <li>1. The rudder is not in the center position of the airframe</li> <li>2. The main wing is not fixed in the center position of the airframe.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the trim switch on the transmitter</li> <li>2. Re-assembly the main wing</li> </ol>
Can not climb	<ol style="list-style-type: none"> <li>1. The battery is not fully charged.</li> <li>2. Two aileron are biased downward</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the battery.</li> <li>2. Adjust the inching switch on the Transmitter.</li> </ol>
Limited control range	The batteries are almost depleted.	Install new batteries.

The manufacturer reserve the right to modify the specification of this product at any time without notice.



CE FC    
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