



Acrobat

PRODUCT MANUAL

SPECIFICATIONS -

 Wing span:
 1200mm/47.24in

 Length:
 1340mm/52.76in

 Wing area:
 37.8dm²/586in²

 Flying weight:
 1700g/60.0oz

 Wing loading:
 45.0g/dm²

 Propeller:
 13x4in

Battery & ESC: 4S 2200mAh 40A ESC Radio required: 4channel radio system

SAFETY PRECAUTIONS-

This electric R/C model plane is not a toy.

Assemble the plane according to the instructions. Do not alter or modify the model, If you make any modifications, you will void your warranty.

Children under 14 years old must use it accompanied by an adult.

Test the operation of the model before each flight to insure that all equipment is operating properly, and that the model remains structurally sound.

Fly only on calm days (with wind speeds less than 10 mph) and in large open areas free of trees, people, building or any other obstacles.

REMEMBER:

Take your time and follow the instructions to end up with a well-built model that is durable and easy to fly.

INTRODUCTION

Before starting to build, inspect the parts to make sure they are of acceptable quality. If any parts are missing are not of acceptable quality, or if you need assistance with assembly, contact Product Support. When reporting defective or missing part, use the part names exactly as they are written in the Kit Contents List.

| 01. Fuselagex1 | 15. Carbon rod | .x1 |
|-----------------------------|--------------------------|-----|
| 02. Hatchx1 | 16. Propeller | .x1 |
| 03. Left Wingx1 | | |
| 04. Right Wingx1 | | |
| 05. Stabilizerx1 | | |
| 06. Finx1 | | |
| 07. Wing Letx2 | 21, Push Rod for Aileron | .x2 |
| 08. Landing Gearx1 | | |
| 09. Spinnerx1 | | |
| 10. Screw M2.5x14x1 | | |
| 11. Screw M3.0x30x1 | | |
| 12. Nylon Screw M6.0x24x2 | 26. Decals | .x1 |
| 13. Tapping Screw M3.0x16x2 | 27. Instruction | .x1 |
| 14. Tapping Screw M2.0x10x6 | | |

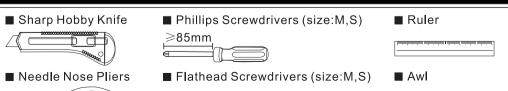


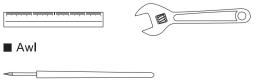
Replacement Parts List

Replacement part for the ST MODEL Acrobat are available using the numbers in the Replacement Parts List that follows.

| Order NO. | Description | Order NO. | Description |
|-----------|--------------------|-----------|-------------------------------|
| ST 109 | 14.8V LiPo 2200mAh | STAT 011 | Brushless Motor |
| STAT 010 | Fuselage Set | ST 203 | 13x4 Propeller |
| STAT 020 | Wing Set | ST 110 | 40 AMP U-BEC ESC. |
| STAT 030 | Stabilizer | ST 108 | 17g Servo (M Gear) |
| STAT 040 | Vertical Fin | ST 104 | ST 6DF 2.4GHz 4CH Transmitter |
| STAT 050 | Landing Gear | ST 105 | ST 6DF 2.4GHz Receiver |
| STAT 041 | Tail Gear | | |

TOOLS REQUIRED





■ Hex Wrench

PREPARE THE RADIO CONTROL SYSTEM

- 1. Locate the transmitter (PIC.01).
- 2. The transmitter requires eight alkaline "AA" batteries. To install the batteries, remove the battery hatch by sliding it down and inserting them into place (PIC.02). Be sure to follow the polarity diagram inside the battery compartment. Reinstall the battery hatch (PIC.03).

CAUTION:

- (1). Do not use rechargeable (NiCd & NiHy) batteries.
- (2). Do not mix old and new batteries.
- (3). Do not mix alkaline and standard (carbon zinc) batteries.
- Switch the transmitter on and check the LED on the front of the transmitter (PIC.04). If the green LED is on, it is safe to fly. If the red LED is flashing, install fresh batteries. Also check to make sure that the batteries are installed correctly.

LiPo Battery

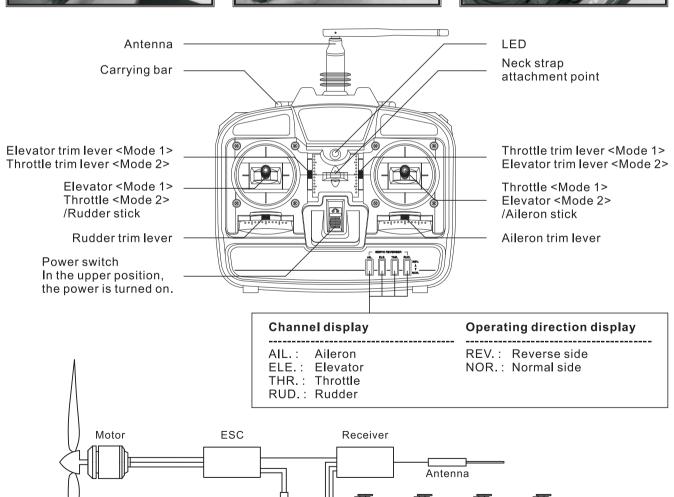
4. Switch the transmitter off and stand by for later use.











Aileron

Servo

Elevator

Servo

Aileron

Servo

Rudder

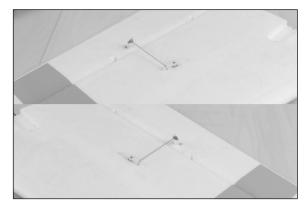
Servo

ASSEMBLE THE MODEL



Main Wing

First, fix the pushrods of aileron to the wings.



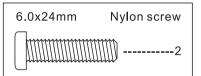
Insert the carbon rod through one of the wings, and then put the other end of carton rod through the fuselage.

Put the aileron servo wire through the fuselage into the battery cabin.



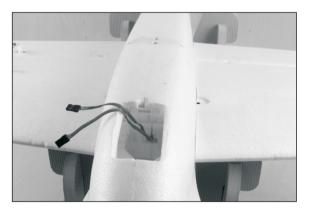
2

Main Wing



Insert the carbon rod through the other wing. And also put the aileron servo wire through the fuselage into the battery cabin.

Fit the wings and the fuselage in place with the nylon screws to avoid loosening.





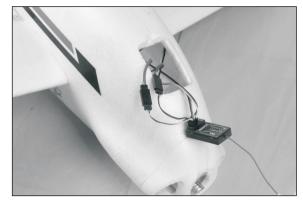
3

Main Wing

| 2.0x10m | ım | Tapping screw |
|-----------|----|---------------|
| []amana - | | 4 |

Take the aileron servo wires and connect to the servo extension leads.

Ensure the polarity should be contacted correctly.



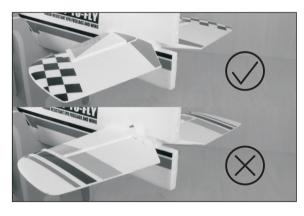
Mount the winglets to the wingtip use M2.0x10mm tapping screws.





Tail Wing

Take the stabilizer and slide it into the fuse lage in right direction as shown. $% \label{eq:control}$

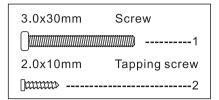


Mount the fin to the fuselage.

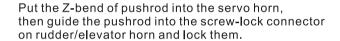


5

Tail Wing

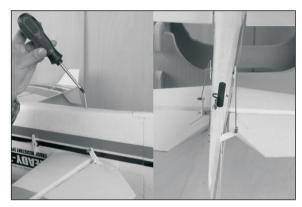


Fix the tail wing with the screw as shown.



Note: The longer pushrod should be used for rudder, and the shorter one for elevator.







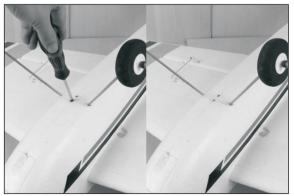
Landing Gear

3.0x16mm Tapping screw

Remove the locker of landing gear from the fuselage.



Insert the landing gear into its location, then lock it with the locker and screws to loosening.



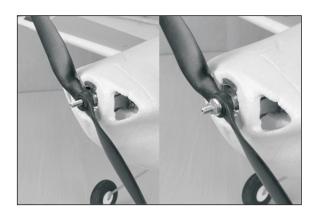
Propeller and spinner 6.0mm Nut ----- 2.5x14mm Screw ------1

Install the propeller adapter with retainer and propeller over the motor shaft.

Put the propeller washer on the adapter shaft, and screw the nut onto the adapter. Tighten the nut with a hex wrench.

Tighten the screws securely. If it comes off during flights, you may lose control of your airplane, resulting in an accident!

Fix the spinner with the screw as shown.

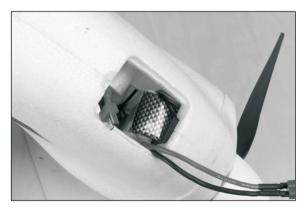






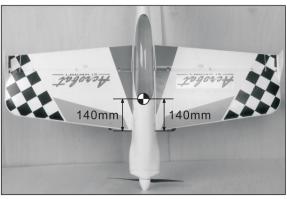
Battery & C.G

Remove the battery hatch and install the battery.



The standard C.G is positioned the line as the picture shows. The movement of C.G should not exceed ± 10 mm; otherwise, it will have an effect on flying performance.

⚠ Do not fly before confirming the correct location of the C.G. If the C.G is incorrect, you may lose control of your airplane and may lead to accidents.



OPERATING YOUR MODEL SAFETY

Before Flying

Before flying your airplane, ensure the airfield is spacious enough. Always fly it outdoors in safe areas with no debris or obstacles!



For proper radio handing, refer to it's instruction manual.



Ensure the spinner and propeller are securely installed.



Switch on the transmitter.



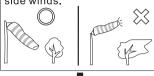
Plug in the battery.



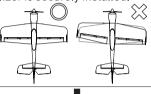
Beware of spinning propeller! With some electronic speed controllers, the motor (proprller) starts spinning as soon as battery is connected.

Flying

Do not fly your airplane on days with strong winds or side winds.



Ensure the main wing & stabilizer is securely installed.



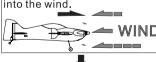
Move the sticks on your transmitter to ensure that all controls move according to your input and the way you adjust-



If the green LED is on, it is safe to fly. If the red LED is flashing install fresh batteries. Also check to make sure that the batteries are installed correctly.



Launch your airplane by hand into the wind.

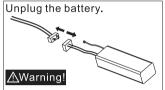


If your airplane does not function correctly, land it at once and find out the reason.

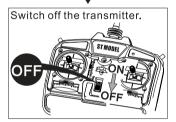


After Flying

Always land airplane into the wind.



Beware of spinning propellers!



Unplug the battery when not

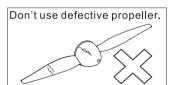


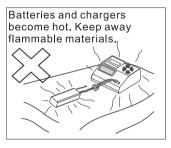
Remove grime, check the plane carefully and make sure no parts have gotten loose or damaged.



↑Cautions for Safety











Do not dispose of batteries in a fire. They explode and release harmful materials.



