

Wingspan:900mm Length:950mm

Empty Weight:790G[w/o Battery]

<u>小</u> 电调使用说明:

- 1. 本款产品使用了新的40A V2版电调,新增"降落后油门反推























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Freewing Banshee introduction

Thank you for purchasing the Freewing 64mm EDF jet Banshee. It is made of high-density EPO material. Before the product leaves the factory, the spraying and decals steps have been completed, and the degree of completion is high. This product also provides two versions of PNP and ARF Plus for selection.

Freewing "Banshee" electric jet is a new 64mm ducted aircraft built again after the Stinger 64 was launched for 12 years. In terms of appearance, the light and flat nose is perfectly combined with the streamlined body, making it stylish and concise. The fluorescent green theme color, with black and white mottled gradient style honeycomb pattern and gray lines, has a unique visual impact, which not only shows the personality, but also effectively enhances the recognition during the flight. In terms of structure, this product adopts a modular structure design, and the assembly of major components is completed through plastic structural parts and screws, which is easy to maintain and update accessories.

Through the summary of the use of previous products and the accumulation of design experience, the Wingspan of the Banshee is set as the captain respectively: 900mm / 950mm. Compared with the conventional 64-ducted products, the size has been increased to improve the flight quality of the product. The main wing adopts a leading edge sawtooth design layout, which further enhances the lateral stability of the product at low speed and elevation attitude. In the process of research and development, repeated testing of various parameters, as well as multiple optimizations and modifications, made the Banshee meet the performance that a basic sports machine should have. The PNP version of Banshee is pre-installed with a 4S 14.8V 64mm12-blade out-runner power system, which is full of power and has an average speed of 152KPH (95MPH). During the take-off, the directional stability is good, and the roll distance is about 20 meters. During the flight, the action responds quickly, and the operation process is soft and linear.

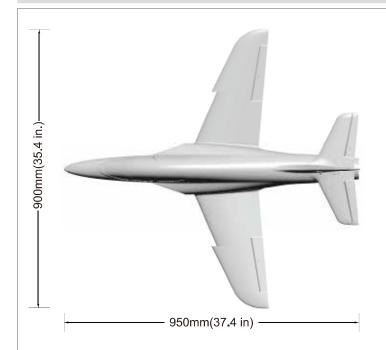
Under the same conditions, during the horizontal turn, the altitude loss is small. In the case of mastering the essentials of relevant flying movements, Banshee can easily complete common easy and difficult movements including "side flying". The fixed landing gear made of Φ 3mm diameter carbon steel is simple and durable. During the landing process, the landing gear has an appropriate degree of softness and hardness. With a little practice and adaptation, the bouncing phenomenon during the landing process can be reduced or even avoided, and the landing gear can smoothly land and glide.

Maneuverability, controllability and stability are the striking features of this brand new Banshee electric model aircraft. It is very suitable to use this cost-effective product to practice related flight actions. I hope you like it!(Note: When using 6S 22.2V 64mm 12-blade out-runner power system, the average speed is 175KPH (109MPH). You can consult and purchase this upgraded power pack through our official or official designated channels)

NOTE: This is not a toy. Not for children under 14 years. Young people under the age of 14 should only be permitted to operate this model under the instruction and supervision of an adult. Please keep these instructions for further reference after completing model assembly.

Note:

- 1. This is not a toy! Operater should have a certain experience, beginners should operate under the guidance of professional players.
- 2.Before install, please read through the instructions carefully and operate strictly under instructions.
- 3. Cause of wrong operation, Freewing and its vendors will not be held responsible for any losses.
- 4. Model planes' players must be on the age of 14 years old.
- 5. This plane used the EPO material with surface spray paint, don't use chemical to clean, otherwise it will damage.
- 6. You should be careful to avoid flying in areas such as public places, high-voltage-intensive areas, near the highway, near the airport or any other place where laws and regulation clearly prohibit.
- 7. You cannot fly in bad weather conditions such as thunderstorms, snows....
- 8.Model plane's battery, don't allowed to put in everywhere. Storage must ensure that there is no inflammable and explosive materials in the round of 2M range.
- Damaged or scrap battery should be properly recycled, it can't discard to avoid spontaneous combustion and fire.
- 10.In flying field, the waste after flying should be properly handled, it can't be abandoned or burned.
- 11. In any case, you must ensure that the throttle is in the low position and transmitter switch on, then it can connect the lipo-battery in aircraft.
- 12.Do not try to take planes by hand when flying or slow landing process. You must wait for landing stop, then carry it.



Standard Version

Wingload: 91.8 g/dm² Wing Area: 11 dm²

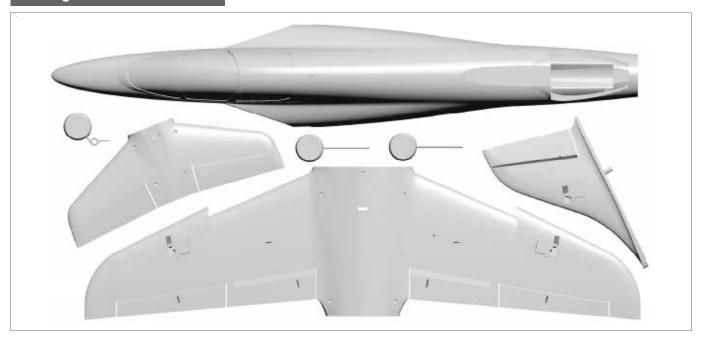
Motor: 2840-2850KV O/R Motor Servo: 9g Digital plastic servo ×8

ESC: 40A Brushless(Thrust Reverse function)

Ducted fan: 64mm 12-blade fan Weight: 790g(w/o Battery) Li-Po Battery:4S 2200-2600mAh Landing gear:Fixed landing gear

Note: The parameters in here are derived from test result using our accessories. If use other accessories, the test result will be different. Any problem since of using other accessories, we are not able to provide technical support.

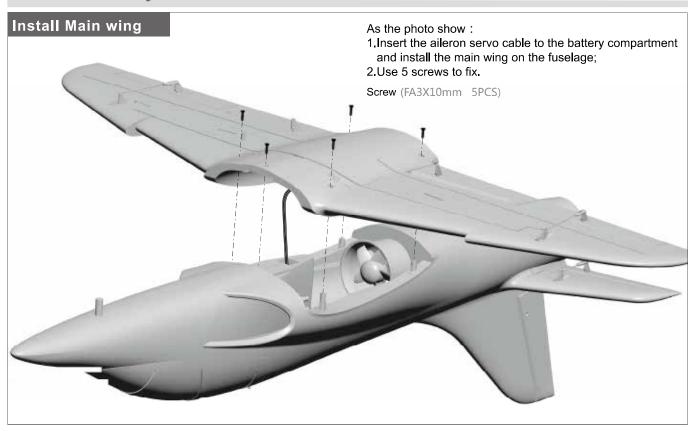
Package List



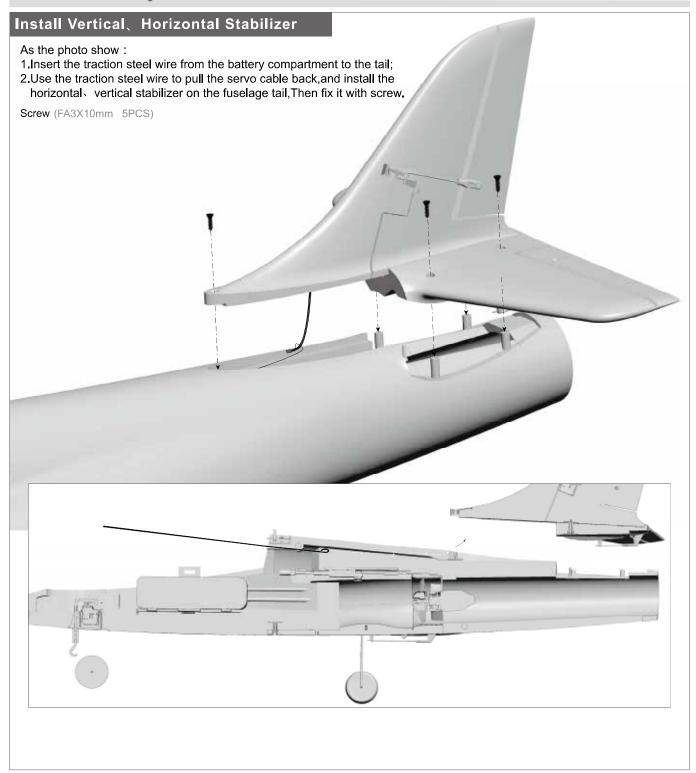
Different equipment include different spareparts. Please refer to the following contents to check your sparepart list.

No.	Name	PNP	ARF Plus
1	Fuselage	Pre-installed all electronic parts	Pre-instal l ed servo
2	Main wing	Pre-installed all electronic parts	Pre-instal l ed servo
3	Horizontal tail	Pre-installed all electronic parts	Pre-insta ll ed servo
4	Vertical tail	Pre-installed all electronic parts	Pre-instal l ed servo

No.	Name	PNP	ARF Plus
5	Wheel	1	√
6	Pushrod	√	√
7	Manual	V	√

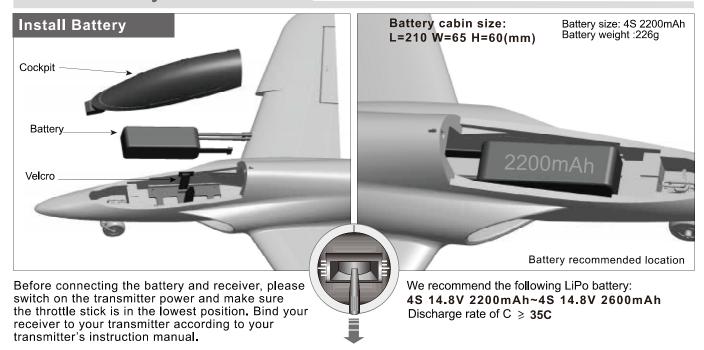




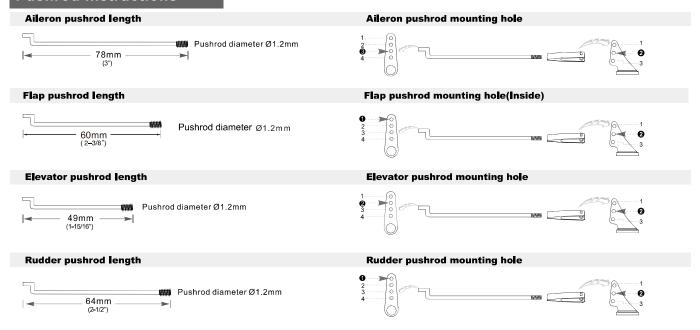








Pushrod instructions

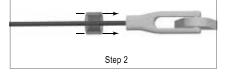


Important additional notes

The Y-type clevis used in this product is equipped with a transparent silicone ring for secondary reinforcement, which can effectively prevent the clevis from accidentally loosening.

As shown in the following figure, when you buckle the clevis into the control surface horn, use the silicone ring to cover the clevis.



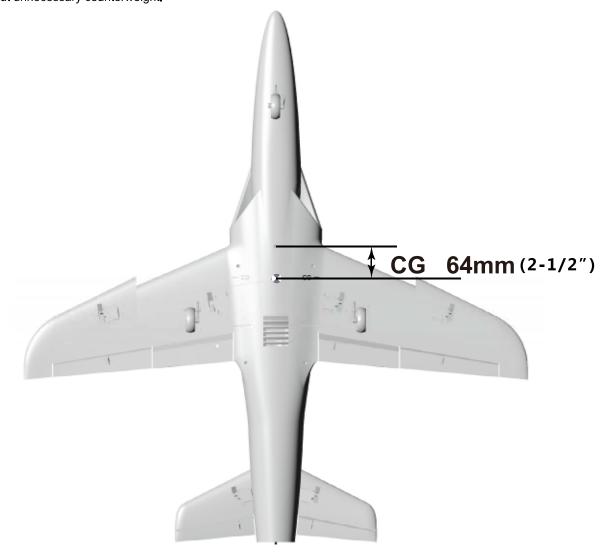




Center of Gravity

Correct Center of Gravity ("CG") is critical for enabling safe aircraft stability and responsive control. Please refer to the following CG diagram to adjust your aircraft's Center of Gravity.

- Depending on the capacity and weight of your choosen flight batteries, move the battery forward or backward to adjust the Center of Gravity.
- If you cannot obtain the recommended CG by moving the battery to a suitable location, you can also install a counterweight to achieve correct CG. However, with the recommended battery size, a counterweight is not required. We recommend flying without unnecessary counterweight.



ESC Instruction

- 1. This product uses the new 40A V2 ESC, and adds the "Reverse throttle deceleration after landing" function.
- 2.This ESC has two connecting cables: "Throttle" signal control cable and "Reverse Brake" control cable.
- 3.Connection Instruction
 - "Throttle" signal control cable insert into the throttle channel of receiver to control the throttle size.
 - "Reverse Brake" control cable insert into any free two-way switch channel of receiver. After the plane lands on the ground, switch the corresponding channel switch on the radio to turn on the "Reverse throttle deceleration" function.

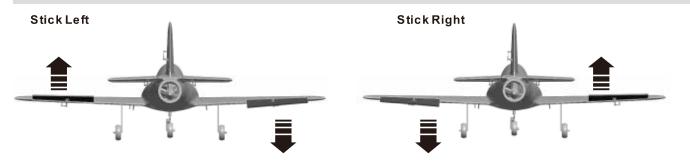
Note:

- 1."Reverse Brake" control cable must insert into the receiver for connection, otherwise the ESC will not start.
- 2.After the model aircraft is off the ground, during the flight, the "throttle reverse thrust" function cannot turn on, otherwise the forward power will be lost, and resulting in a serious flight accident.

Control Direction Test

After installed the plane, before flying, we need a fully charged battery and connect to the ESC, then use radio to test and check that every control surface work properly.

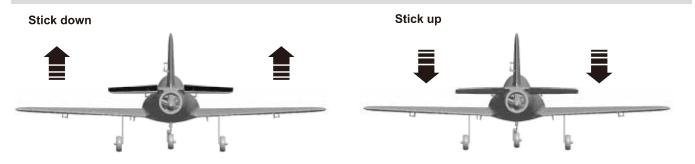
Aileron



Rudder



Elevator

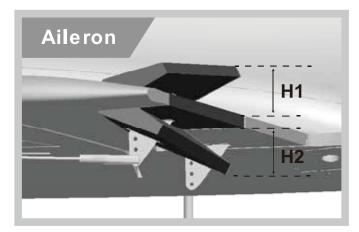


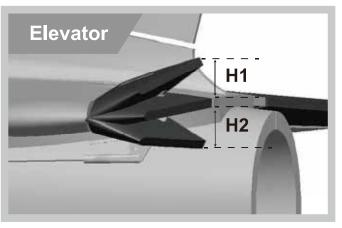
Flaps

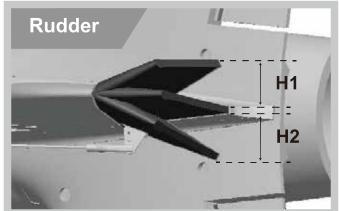


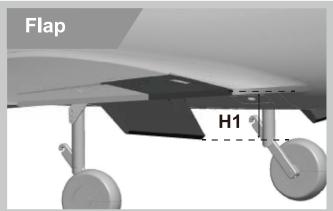
Dual Rates

According to our testing experience, use the following parameters to set Aileron/Elevator Rate. Program your preferred Exponential % in your radio transmitter. We recommend using High Rate for the first flight, and switching to Low Rate if you desire a lower sensitivity. On successive flights, adjust the Rates and Expo to suit your preference.

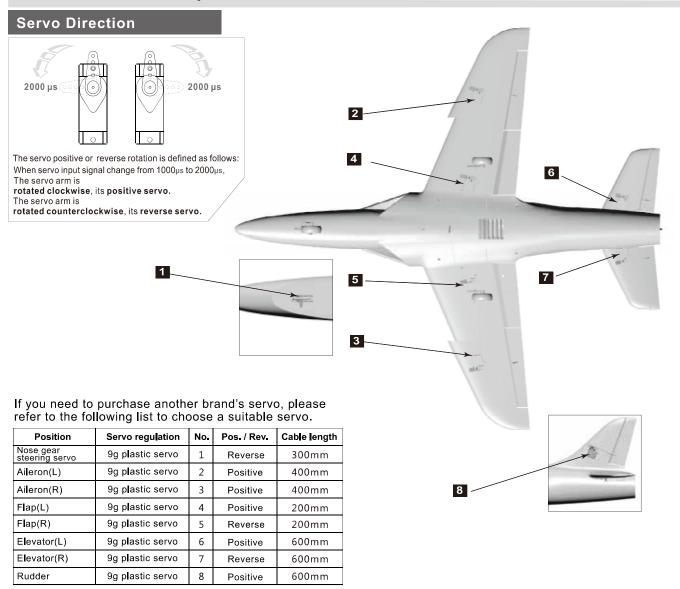




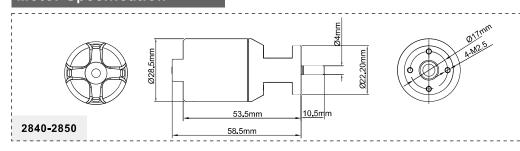




	Aileron (Measured closest to the fuselage)	Elevator (Measured closest to the fuselage)	Rudder (Measured from the bottom)	Flaps
Low Rate	H1/H2 9mm/9mm D/R Rate : 60%	H1/H2 17mm/17mm D/R Rate : 75%	H1/H2 24mm/24mm D/R Rate : 80%	H1 11mm
High Rate	H1/H2 12mm/12mm D/R Rate: 80%	H1/H2 23mm/23mm D/R Rate: 100%	H1/H2 31mm/31mm D/R Rate : 100%	H1 24mm



Motor Specification



2840-2850KV brushless motor use 4S 14.8V lipo battery and 40A ESC.

Note: If you need other motor to use, please refer to the dimension shown on the left to select your motor, to make sure that the motor you purchased can install successfully.

Model	KV Value	Volate (V)	Current (A)	Pull (g)	RPM	Weight (g)	No Load Current	Propeller	ESC
2840 - 2850KV	2850RPM/V	14.8	40	1350	42180	145	2.7A	64mm Ducted Fan	40A



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