

Item No.:F2601



# B-17 FLYING FORTRESS



## User Manual

- *The manual suit for every color scheme of Freewing B-17 Flying Fortress*
- *The manual only choose one color scheme as an example.*

版本号：F2601



MADE IN CHINA

# Catalogue

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Thank you for you purchasing our 4-bombers B17, it's a so beautiful and meaningful famous WW II aircraft,Before it entered into market,we tested half a year,the final result is very successful.

When you fly the B17,its strong power output,make the B17 fully show its momentum and domineering as a "Flying Fortress" ,it's extremely bright in the air.

This product,we re-design the servoless electric retracts,and use the precision machining parts to make the landing gear shock absorber, enhance the landing safety. We also design the standard and reverse propeller for the aircraft, increase the flight stability. Its removeable wings design,also make this wingspan 1.6M model easy to transport .

## Specification

Wingspan:63" (1600mm)

Fuselage length:46"(1170mm)

Flight weight:82.89oz.(2350g)

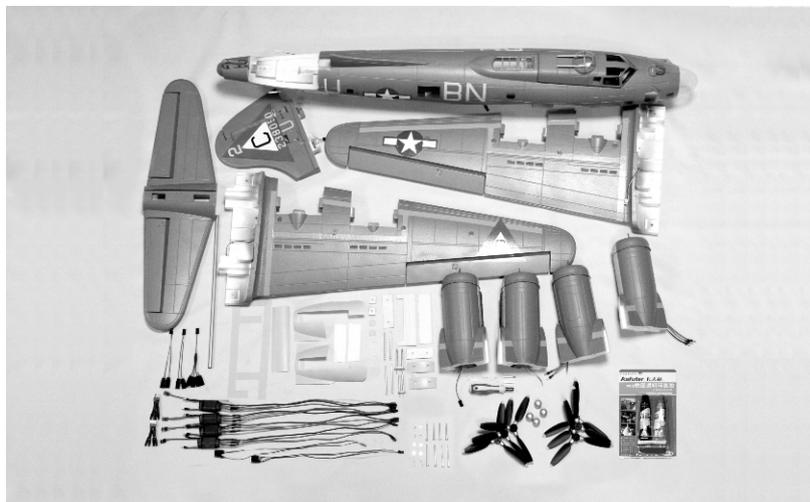
Wingloading:78g/dm<sup>2</sup>

We prepared four version for pilots choice.

(○ means what RTF include, ■ means what ARF include, △ means what PNP include, ● means what Airframe include).

Pre-painted fuselage	○	■	△	●
Pre-painted main wing set	○	■	△	●
(4PCS) Pre-painted plastic motor cover	○	■	△	●
Stainless steel tube for main wing	○	■	△	●
ESC&connect wire parts bag	○	■	△	●
Plastic parts bag	○	■	△	●
Wood&plastic parts bag	○	■	△	●
Screw parts bag	○	■	△	●
Tools parts bag	○	■	△	●
Standard propeller parts bag	○	■	△	●
Reverse propeller parts bag	○	■	△	●
Manual	○	■	△	●
AB glue	○	■	△	●
30A ESC (4pcs)	○	■	△	
3130-1350KV Out runner Motor(4pcs)	○	■	△	
3S 11.1V 1800mAh 20C Li-poly Battery (2pcs)	○	■		
9g servo (6pcs)	○	■	△	
17g servo (1pcs)	○	■		
Li-poly Charger(3s)	○			
2.4G 4CH Transmitter and 6CH Receiver	○			

It's the PNP version contents list as following photo for your reference.



## **Safety Statement**

- 1.This is not a toy.It is for experienced modelers only.You are responsible for the safeoperation of this model and any damage of harm it may cause.
- 2.Before flying the B-17 Flying Fortress for the first time .Please read through the instructions carefully and make sure that your radio equipment is working properly and has been range testedprior to flight.
- 3.Young people under the age of 14 should only be permitted to operate this model under the instruction and supervision of and adult with modeling experience.
- 4.Please keep these instructions for future reference after completing model assembly.Theycontain information critical to the safe operation of this model.
- 5.If you have any further questions regarding the safe operation of you RC model.pleasecontact your local hobby shop.flying club or Freewing Model for professional help and advice.

## **Safety Precautions!**

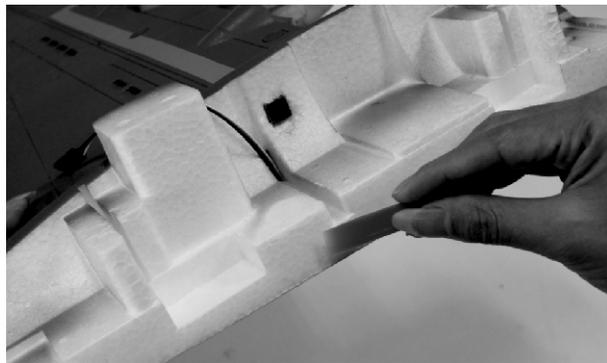
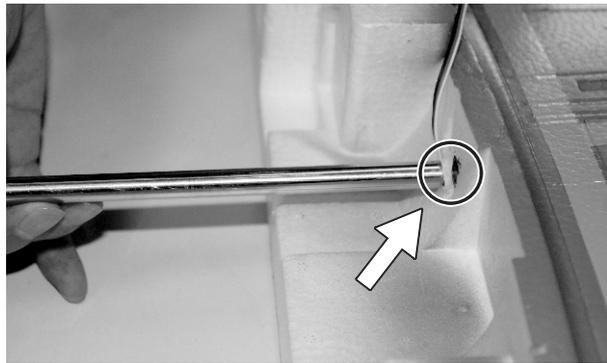
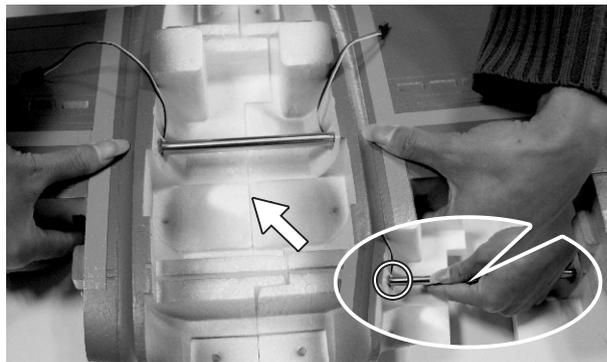
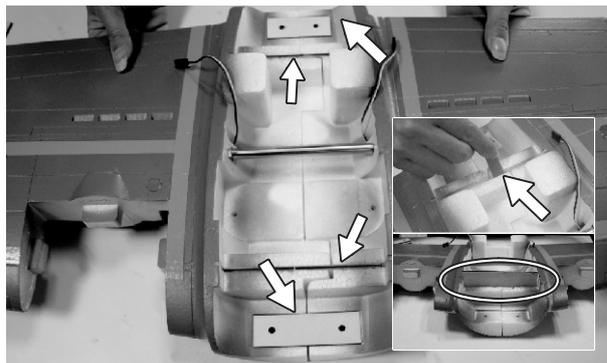
### **Please read this section and follow all recommendations!**

1. Do not fly in strong wind or bad weather.
2. Never fly the model in crowded areas where there are lots of people,automobiles on the road or power lines overhead. Do not fly near full-scale airport.
3. Make sure that you have enough open area for flying as the model can travel at a high rate of speed and cover a lot of area quickly. Initial flights should be made in an area with a minimum size of a football field.
4. This model is not recommended for children under the age of 14.
5. When charging the LiPo batteries always charge them on a non-flammable surface and monitor the charge process.Improper charging of LiPo batteries is dangerous and can lead to a fire!
6. The B-17 is made from EPO foam and Plastic. These materials are flammable and can be damaged by high heat. Never leave your B-17 near a heat source or in an automobile.
7. Do not attempt to catch your B-17 while flying.
8. Never leave your B-17 unattended when ready for flight.
9. When preparing for flight, always turn on your transmitter first and make sure that your throttle is in the off position prior to plugging in the flight batteries .Failure to follow this step may lead to unintended motor start and damage to the model.

## Install instruction

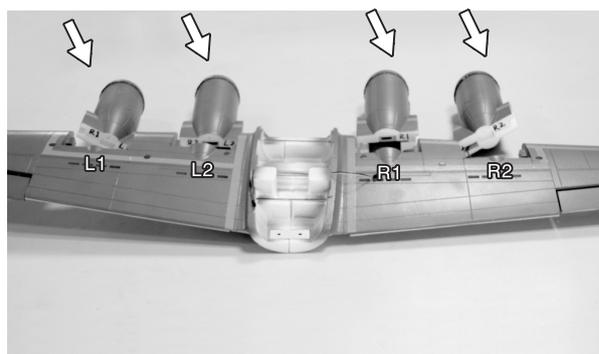
Before install ,we should know how to use AB glue,first, move away the glue's clarity cover,then open the A&B cover seperately,third, use the cover's back stick the AB glue's mouth.

**Note: when reconcile,need glue the equal parts from A&B glue,and reconcile uniform, reconcile time to dry in 5 minutes,so,we based on actural usage,turn out the right dose**

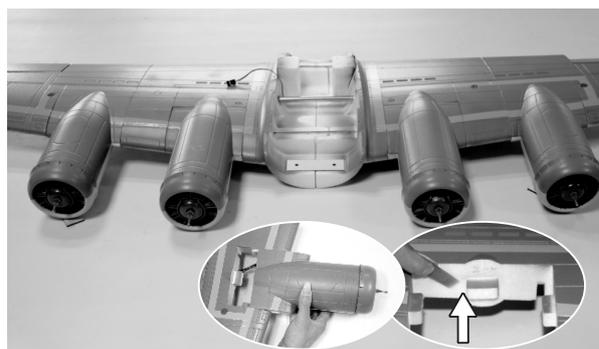
<b>Install main wing</b>	
1.Apply glue to the root of the main wing panel.	
2.Feed one side of stainless steel tube into the main wing.	
3.Feed the other side of stainless steel tube into the other wing and glue main wings, Hold in position until the glue cures	
4.Apply 5-minutes epoxy to the area of main wing connect,glue the reinforcement wood ,as the photo shown.	

## Install main wing motor cabin

1. According to the right picture and the bottom logo of the engine cabin, put it in correct position

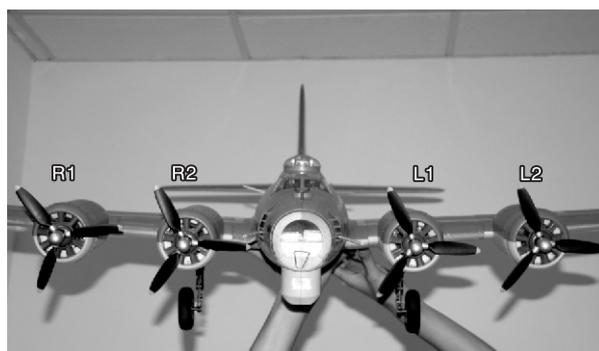


2. Apply glue to the install position of one main wing engine cabin, attach to the main wing panel, repeat this process for the other three engine cabin



3. Separately screw standard propeller and reverse propeller on the motor, tightly screw the spinner

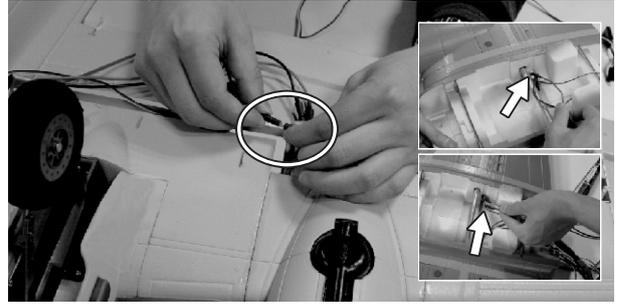
L1----standard propeller;  
L2----standard propeller  
R1----reverse propeller;  
R2---- reverse propeller



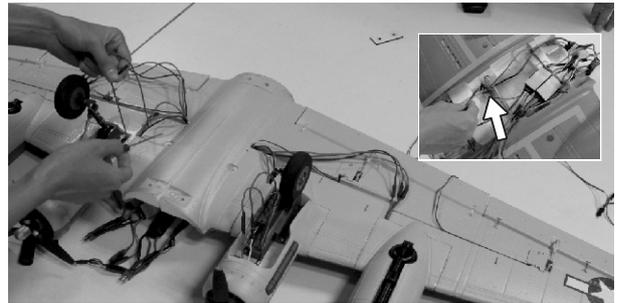
**Note:** when use locknut screw fix the propeller, fix it, turn the propeller until the motor rotate more smoothly, don't excessive force, otherwise maybe make the motor axis pull out, resulting in motor rotation is not smooth, in that case, slightly loosen the locknut screw

## ESC Install and adjust

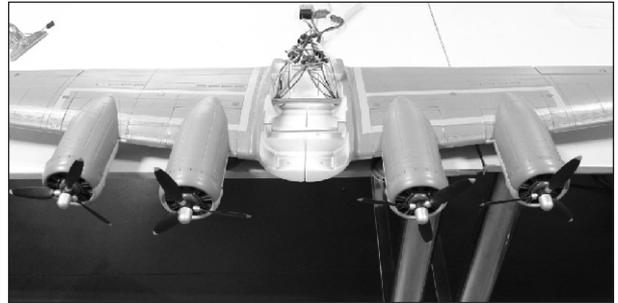
1, Firstly pass one ESC pack through the left/right main wing, along the main wing's trough, set ESC output wire to R1; L1 engine cabin, then connect the motor and ESC.



2. Use the same way to connect another ESC and motor.



3. Put the main wing on the desk edge, and confirm it don't touch anything if propeller rotate.



4. Connect the ESC signal line through one "1 to 4" wire and insert it into the receiver throttle channel (3CH). Meanwhile, power on one ESC pack and one battery pack, after throttle correction, push the throttle lightly and check the motor rotate is right, if reverse rotate, we just need to exchange the left/right ESC output wire.

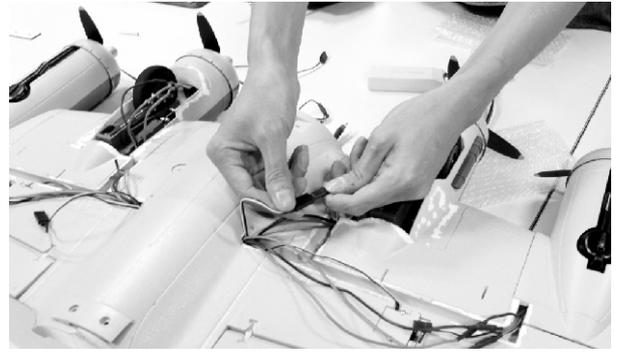
**(In general, we could put hands on the back of propeller, if wind, it means our connect is right.  
Note: please pay attention of the distance between propeller and hands, in order to avoid any damage since of the high-speed rotating propeller.)**



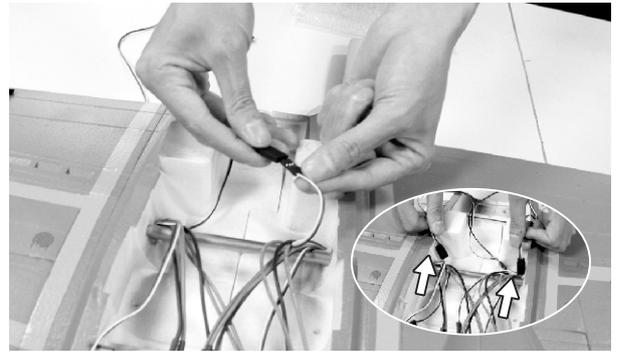
5. Use the same way to check another motor pack.



6. At last, connect the left/right electric retract through one 350mm Y wire.



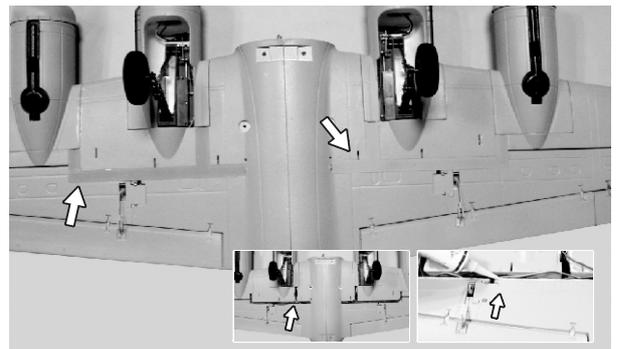
7. Connect the left/right aileron servo through another 350mm Y wire.



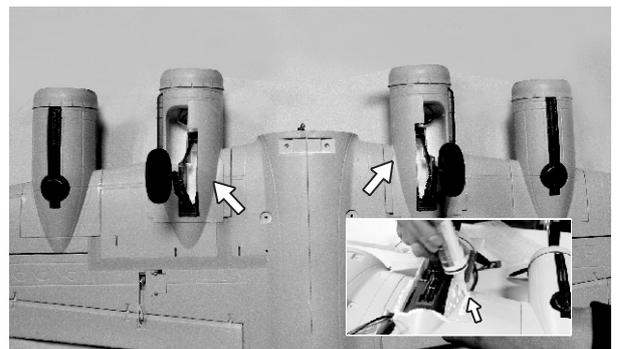
8. Connect the left/right flap servo through one 100mm Y wire.



9. Keep the wire neatly and glue on the left/right wire cover.

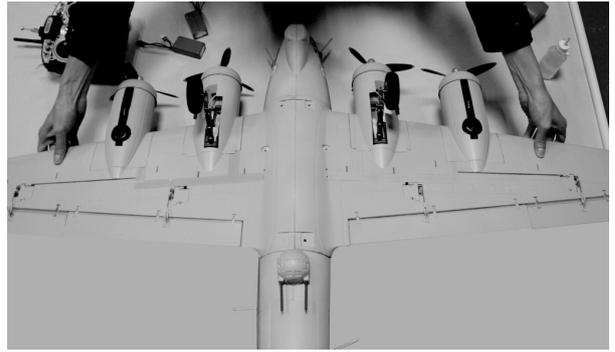


10. Glue the landing gear decorative cover tightly.



## Install Main wing and Tail wing

1. Insert the main wing into the fuselage.



2. The mounting hole in the bottom of main wing, install the plastic pieces respectively and fix with screws.



**Note:** before install the elevator and rudder, please install the scale observation window to the back fuselage and fix it by glue.

3. Install the elevator into the elevator install position, then insert the rudder into the elevator mounting hole, meanwhile, along the mounting hole, pass the rudder servo wire through the bottom fuselage.



4. Reverse the fuselage, connect the rudder servo wire and extension wire of fuselage.

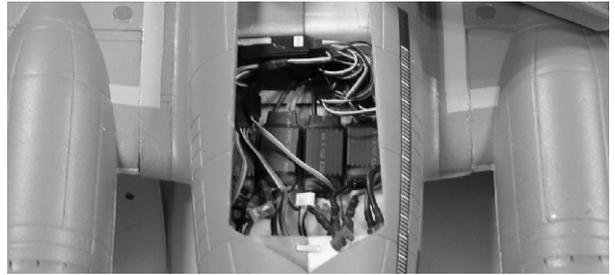


5. Fixed the elevator and main wing tightly by wood pieces and screws.

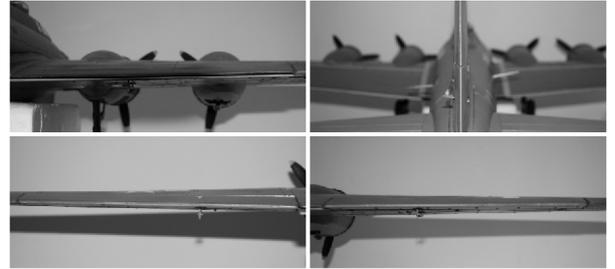


## Check and adjust

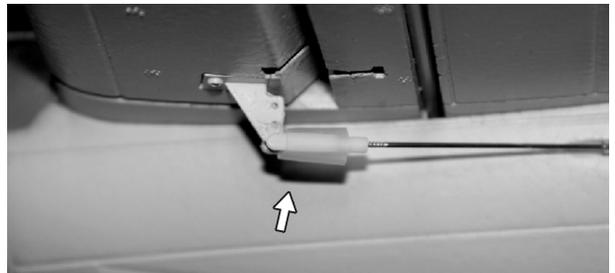
1. Open the canopy, stick the ESC on the Velcro neatly. Insert the cable into receiver correctly through the wire mark.



2. Switch on the receiver, connect two pack battery and two ESC separately, and adjust the servo center, if not center, it could adjust its clevis.



3. After all the control surface be centered, set the silicone tube into the clevis, it could prevent clevis fall off.



4. Repeat switch on/off electric retracts several times, check the retracts work normally.



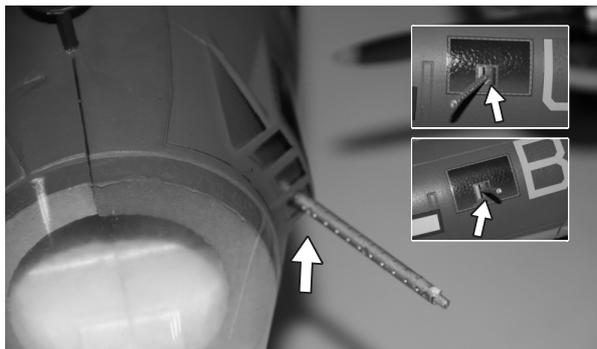
5. On the situation of switch on retracts, check the metal support bar fully support and no gap between. And there is a certain angle.



6. Hands clutching the fuselage, shake it hardly several times, then control these servos and check every servo work normally. If found any don't work, please check the servo cables are firm.

## Appearance

1. Glue the top of scale machine guns and insert them separately into fuselage machine gun position and nose window machine gun position.



2. Glue on the fuselage machine gun position, install the machine guns separately and tightly.

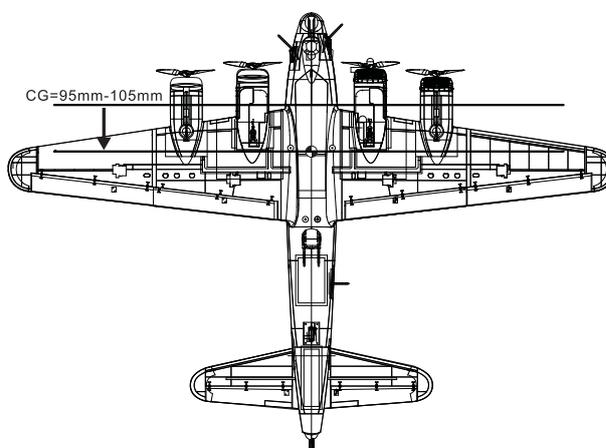


3. Stick the decal on the propeller if don't influence propeller balance.



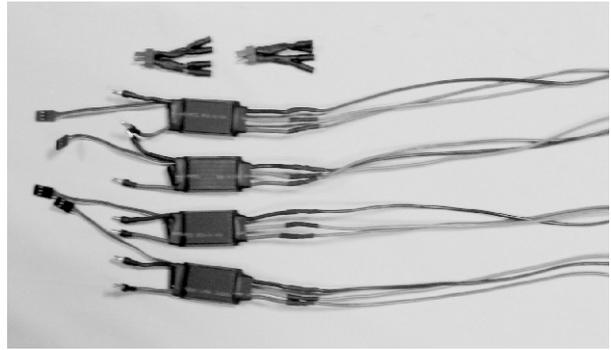
## Center of Gravity

1. Before flight, please make sure the CG is correct or let the experience pilot help to check the CG. Since if wrong CG will cause the failure fly. Please check the CG according to the following photo.



## Replace ESC

For easy to replace the ESC,we divide 4 pcs ESC to 2 set,seperately plug with 2 pcs connect wire.



2.Open the cockpit,power off the current connect wire.



3.Reverse the fuselage,open the wire plastic piece on the main wing



4.Find out the broken ESC and motor's connect wire,pull out the plug

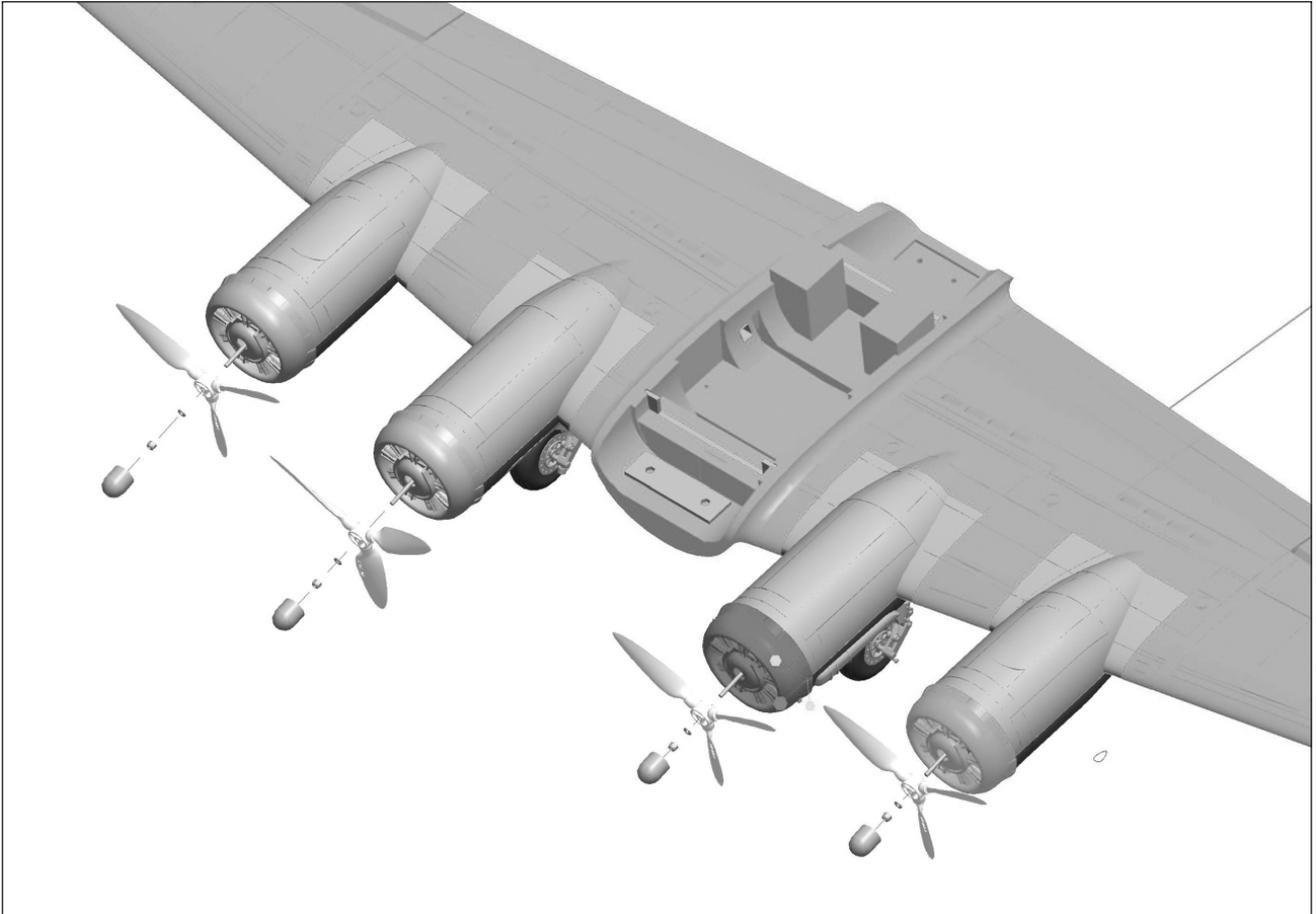


5,Take out the broken ESC, Install the new ESC



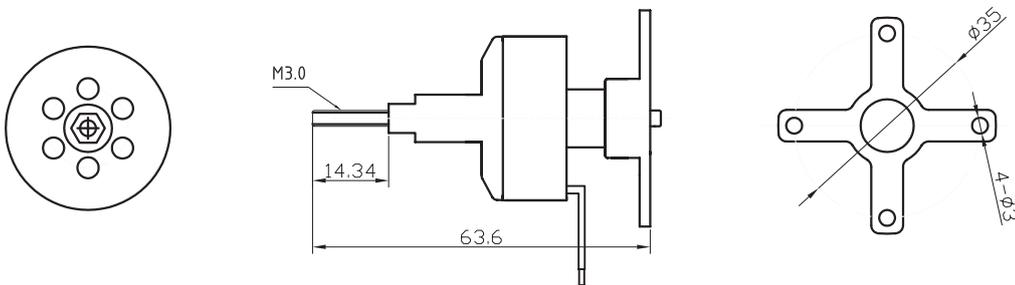
## Propeller Install

Refer to the photo, install propeller.



## 3130-1350 Brushless Motor User Manual

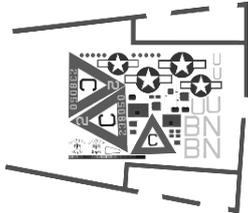
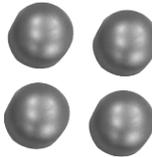
Specification:



Model	KV_Value (RPM)	Volate(V)	Current(A)	Pull(g)	Rotate_Speed(RPM)	Motor_Weight (g)APPROX	G/A	No Load_Current (A)	Prop	ESC(A)
3130-1350	1350	11.1	16.5	780		56	47	0.9	7 <sup>6</sup> (3-blade)	25

## Sparepart list

Number	F260102	F260103	F260104	F260106
Name	Tail Wing Set	Main Wing Set	Fuselage	Nose cone
Pictures				

Number	F260109	F260108	F260107	F260110
Name	Plastic motor cover(4pcs)	Landing gear	Water-sticker	Spinner
Pictures				

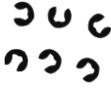
Number	F90215	F90215-1	55052	F90136-2
Name	Propeller ( 7X6 Standard)	Propeller ( 7X6 Reverse)	Brushless ESC(30A)	Out runner motor
Pictures				

Number	F3029	B17W005001	B17W005005	B17W005003
Name	3S 1800mah 20c Lipo battery	Nose landing guide sleeve	Nose landing connect piece 3	Nose landing connect piece 1
Pictures				

Number	B17W005013	B17W005006	B17W005008	B17W005004
Name	Nose landing arm	Main rotating shaft	Chock	Nose landing connect piece 2
Pictures				

Number	B17W005007	B17W0014001	B17W014002	B17W005002
Name	Hexagonal rotate axis	Nose landing below support pole	Nose landing support pole left	Nose landing guide rod
Pictures				

Number	B17W005012	B17W005010	B17W005009	B17W005011
Name	Wheel shaft	Shaft 2	Shaft 1	Shaft 3
Pictures				

Number	B17W011003
Name	E buckle
Pictures	



Have Fun!  
We hope that you have many pleasant  
flights with your B-17



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