

EN 1~9

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VOUGHT

# F4U-IA/D CORSAIR

*1/8 SCALE WWII WARBIRO*

**WINGSPAN: 1600MM (63")**  
**LENGTH: 1300MM (51-1/8")**  
**EMPTY WEIGHT: 3400G (W/O BATTERY)**

**Flightline**  
RC



**FreeWing**  
www.xz-freewing.com  
MADE IN CHINA



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## **PNP组装说明**

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**T**hank you for purchasing the FlightLineRC 1600mm wingspan F4U Corsair RC model airplane. FlightLineRC is a leading brand produced by Freewing Model in 2015, designed to bring you a new series of propeller driven aircraft at the same level of quality and value you trust from Freewing Model's EDF aircraft and other products.

The F4U Corsair was a carrier-based and land-based aircraft developed during WWII. Its unique inverted sea-gull wing is its distinctive feature, as well as its maneuverability and versatility to operate in many areas. Its strong power, producing a top speed of 640kph, made the Corsair one of the fastest piston fighters in the world at that time. In the Pacific battlefield, it achieved an impressive 11:1 combat record. The Corsair continued after WWII into the Korean war era and continues to fly today by civilian operators.

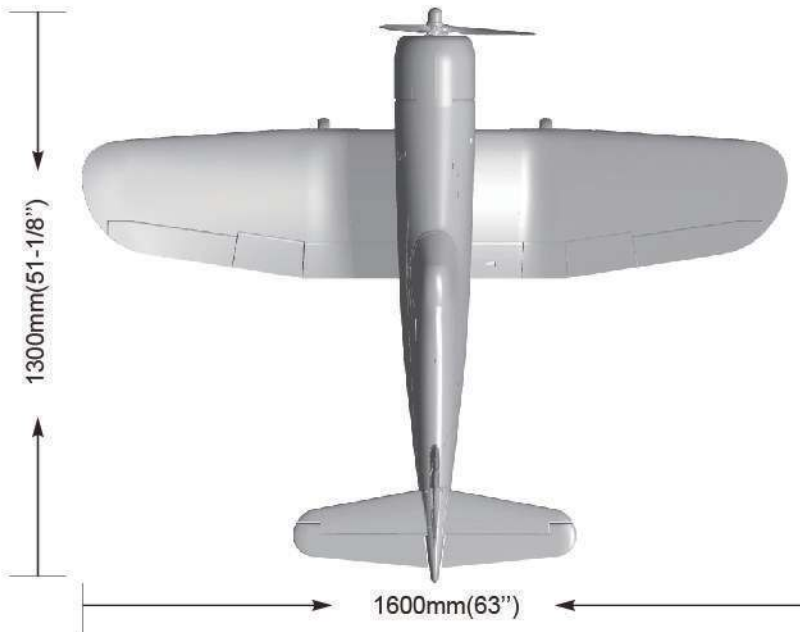
This FlightLineRC F4U Corsair is approximately 1/8 scale, with a 1600mm wingspan and 1300mm length. We offer both the F4U-1A ("birdcage" canopy) and F4U-1D ("bubble" canopy) versions of the Corsair. It is molded from EPO foam, featuring a scale shape with lots of plastic parts to enhance its scale fidelity and user friendliness. All the control surfaces are easily assembled with screws. Like the FlightLineRC 1600mm Spitfire Mk.IX and Freewing A-10 Warthog, this F4U features a multi-material wing, utilizing foam, plywood, plastic, carbon tubes, and aluminum extrusions to provide a stronger wing than solid foam yet still lightweight and maneuverable. Scale lighting, scale flaps, and various other features make this the best big foam electric Corsair on the market today!

The FlightLine F4U Corsair stock PNP version is equipped with a 5055-390KV brushless outrunner motor and scale 3-blade propeller and 80A ESC. With the recommended 6S 4000-5000mAh lipo battery, the F4U Corsair has a level top speed of 125kph/75mph, with 4-8 minutes of flight time depending on throttle management. The Take-off flying performance is especially stable without the need for flaps. In the air, the feedback between the flight attitude and the control surface command is excellent, and at the same time, it has excellent flight stability in both high speed and low speed. The F4U can execute a wide range of maneuvers, including all scale maneuvers and additional non-scale acrobatics. Its suspension main struts and tall wheels provide confidence when operating on grass runways.

**⚠ 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! Operator 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.
9. 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.

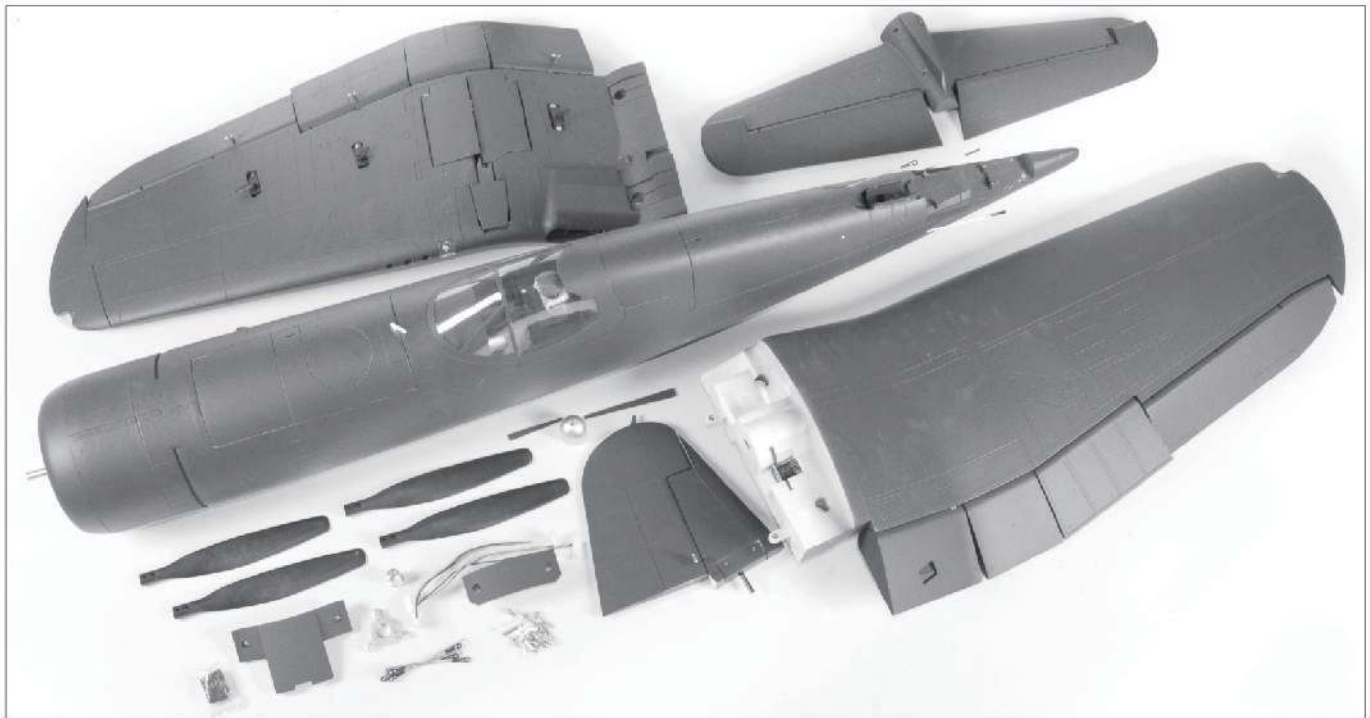


Wing loading: 98g/dm  
 Motor: 5055-340KV  
 brushless outrunner motor  
 Propeller: 3 blades 18x12  
 ESC: 80A brushless UBEC 5A  
 Servo: 17g digital metal gear servo (8pcs)  
 9g digital metal gear servo (1pcs)  
 9g plastic (2pcs)  
 Empty Weight: 2850g (without battery)

Material: EPO & ABS Plastic  
 Aileron: Yes  
 Split Flaps: Yes  
 Elevator: Yes  
 Rudder: Yes  
 Scale LED lights  
 Cabin door: Yes  
 Landing gear: Retract landing gear  
 controlled by electric worm

**⚠ 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



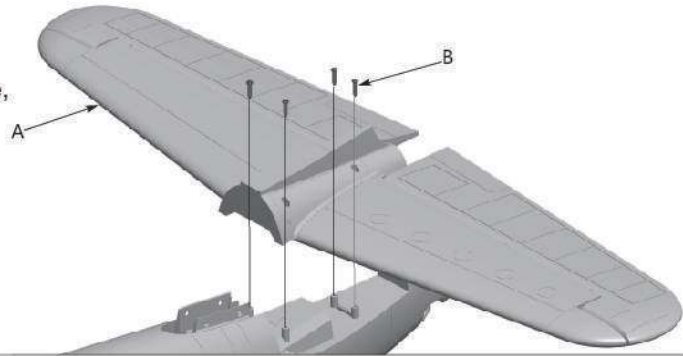
Different equipment include different spareparts. Please refer to the following contents to check your sparepart list.

No.	Name	PNP	ARF Plus	Airframe	No.	Name	PNP	ARF Plus	Airframe
1	Fuselage	Pre-installed all electronic parts	Pre-installed all servo	No electronic equipment	7	Scale propeller	✓	✓	✓
2	Main wing	Pre-installed all electronic parts	Pre-installed all servo	No electronic equipment	8	Carbon tube	✓	✓	✓
3	Horizontal tail	Pre-installed all electronic parts	Pre-installed all servo	No electronic equipment	9	Linkage Set	✓	✓	✓
4	Vertical tail	Pre-installed all electronic parts	Pre-installed all servo	No electronic equipment	10	Non-slipma	✓	✓	✓
5	Decorated part	✓	✓	✓	11	Manual & Decals	✓	✓	✓
6	Spinner	✓	✓	✓	12	Screw & Plastic fo	✓	✓	✓

## Install Fuselage

As the photo show:  
install the horizontal stabilizer on the tail of fuselage,  
and fixed it by 4 pcs screws.

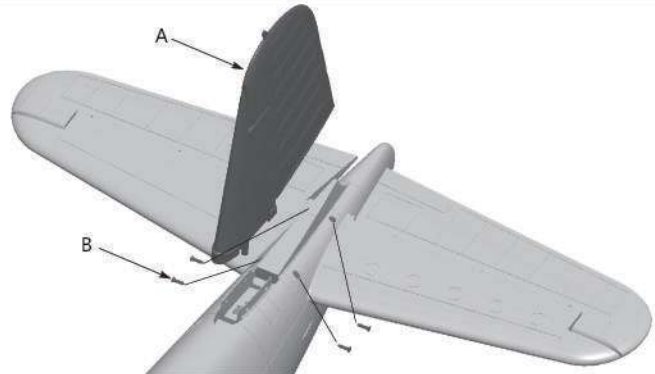
- A-Horizontal Stabilizer
- B-Screw (PA3x8mm 4pcs)



## Install Vertical Stabilizer

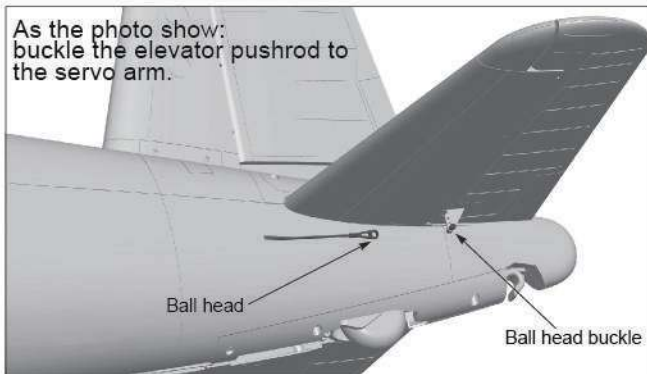
As the photo show:  
install the vertical stabilizer on the tail of fuselage,  
and fixed it by 4 pcs screws.

- A-Vertical tail
- B-Screw (FA3x8mm 4pcs)

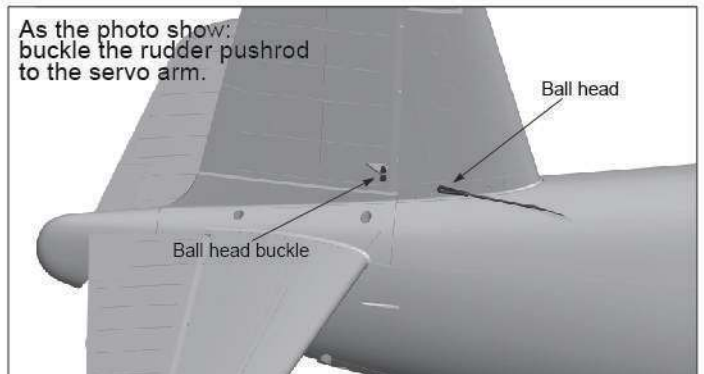


Through servo tester or radio to center the servo arm,

As the photo show:  
buckle the elevator pushrod to  
the servo arm.



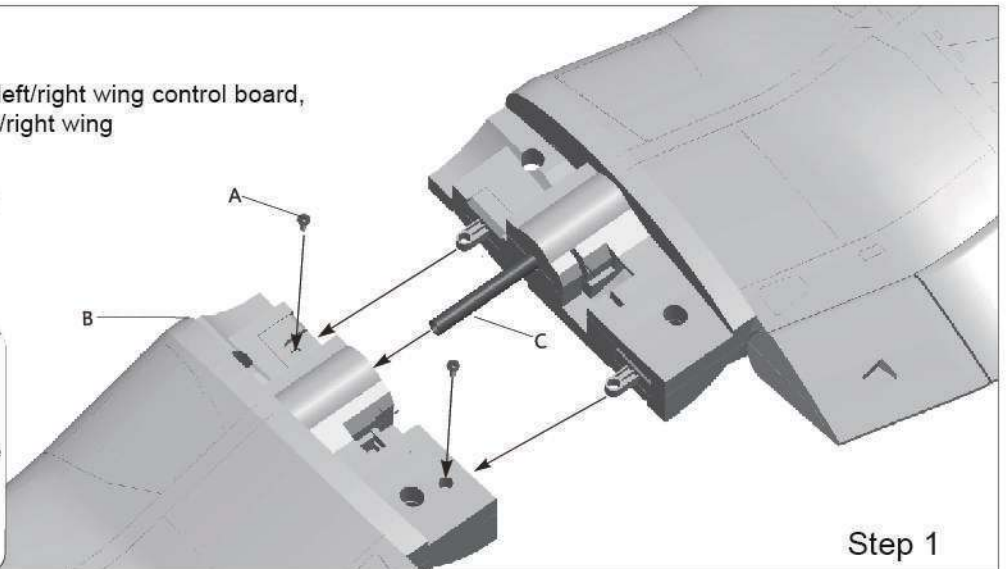
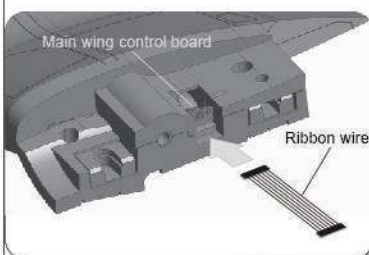
As the photo show:  
buckle the rudder pushrod  
to the servo arm.



## Install Main wing

As the photo show:  
1.Insert the ribbon wires to the left/right wing control board,  
2.Use carbon tube to fix the left/right wing

- A-Screw (PWM4x8mm 2pcs)
- B-Main wing
- C-Carbon tube (Ø12x210mm)

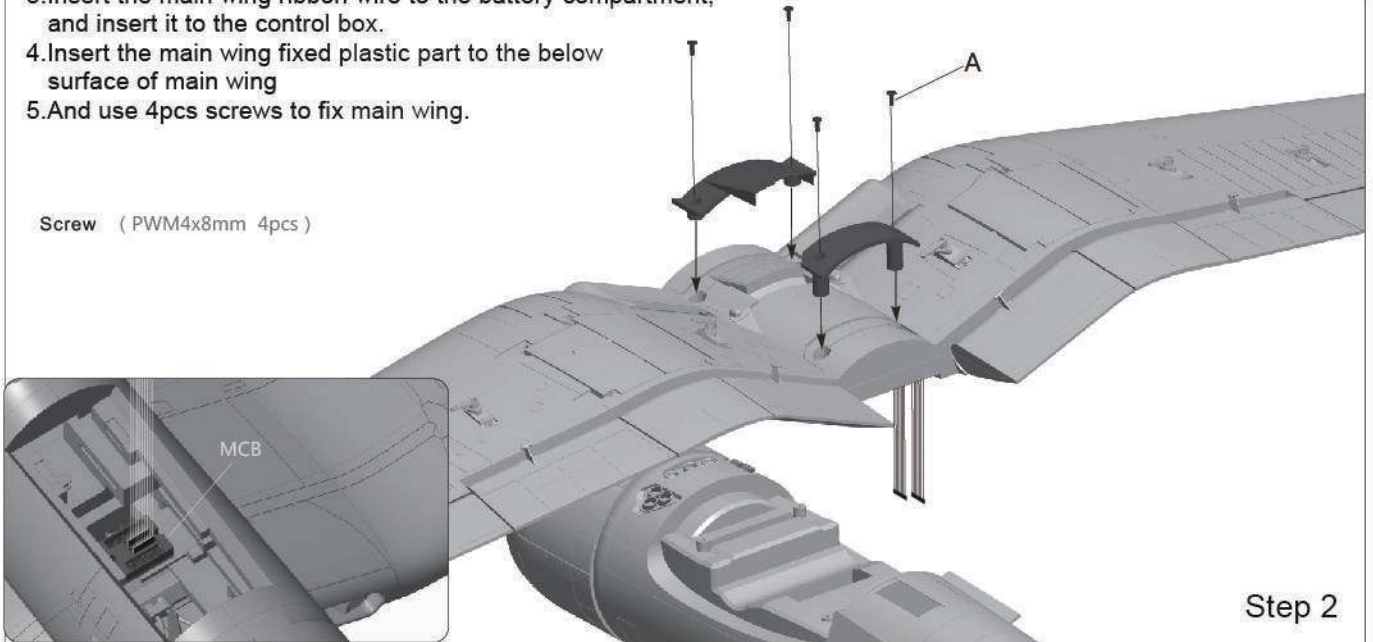


Step 1

As the photo show:

3. Insert the main wing ribbon wire to the battery compartment, and insert it to the control box.
4. Insert the main wing fixed plastic part to the below surface of main wing
5. And use 4pcs screws to fix main wing.

Screw ( PWM4x8mm 4pcs )



### Battery Size

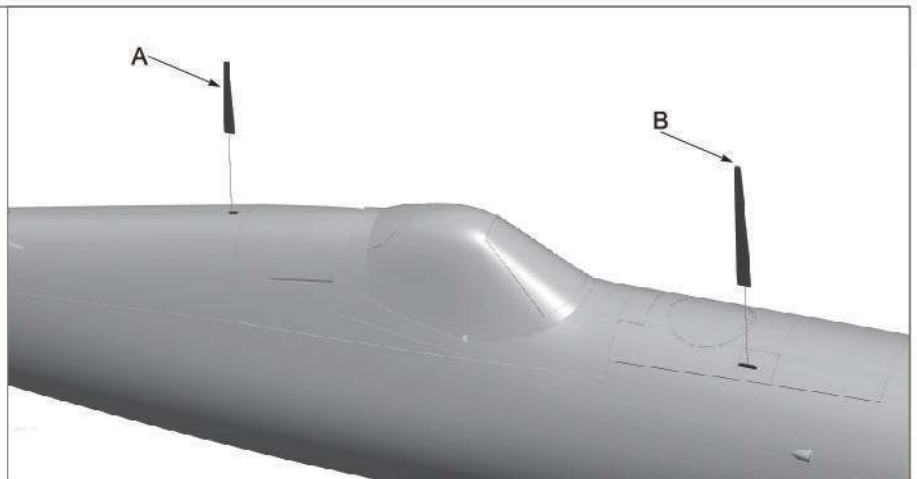


Before connecting the battery and receiver, please switch on the transmitter power and make sure the throttle stick is in the lowest position. Bind your receiver to your transmitter according to your transmitter's instruction manual.

The battery capacity and discharge rate we advise is in the following:  
**6S 22.2V 4000mAh ~ 6S 22.2V 6000mAh**  
**Discharge rate of C ≥ 30C**

### Install Scale Accessories

As the photo show: insert the A. B antenna to the back of fuselage and battery compartment cover.



## Pushrod instructions

### Rear gear steering pushrod length



Pushrod diameter Ø1.2mm



### Rudder pushrod length



Pushrod diameter Ø1.5mm

### Rudder pushrod mounting hole



### Elevator pushrod length



Pushrod diameter Ø1.5mm

### Elevator pushrod mounting hole



### Aileron pushrod length



Pushrod diameter Ø1.5mm

### Aileron pushrod mounting hole



### Flap pushrod length



Pushrod diameter Ø1.5mm

### Flap pushrod mounting hole



## 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 chosen 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.



## 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

Stick Left



Stick Right

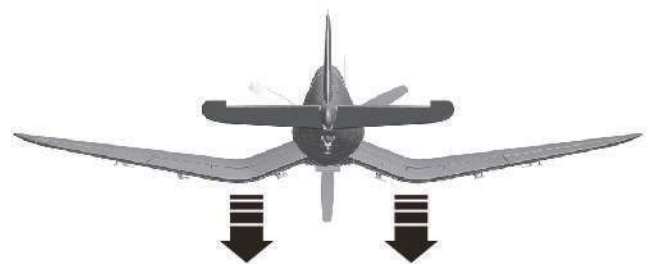


### Elevator

Stick down

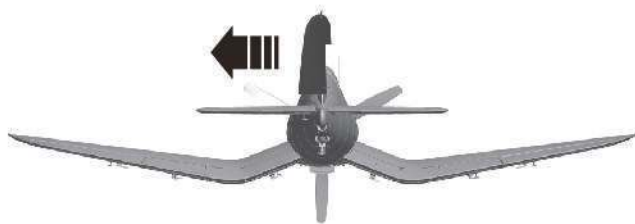


Stick Up

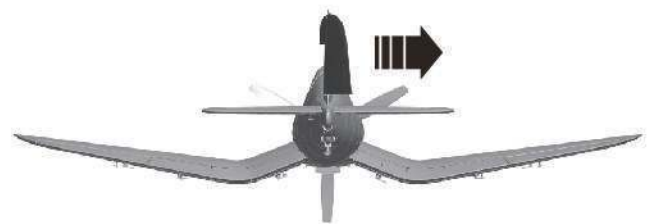


### Rudder

Stick Left



Stick Right



### Flaps

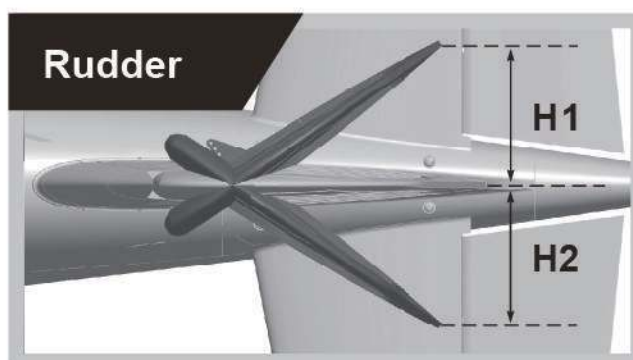
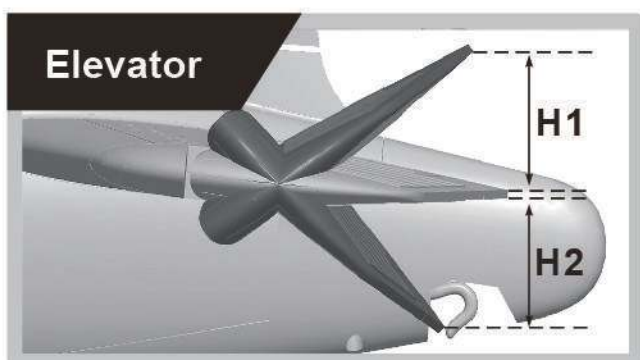
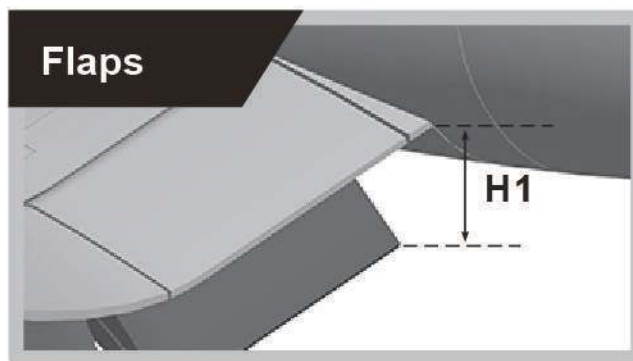
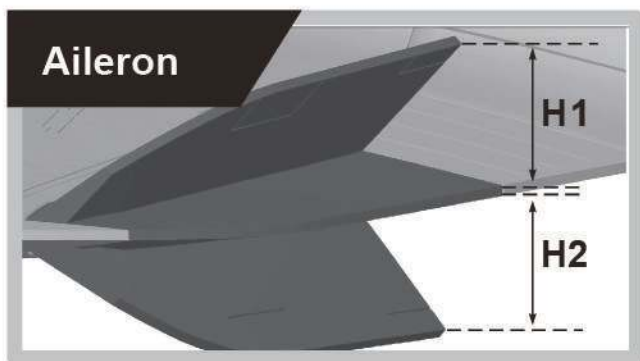
Flaps down





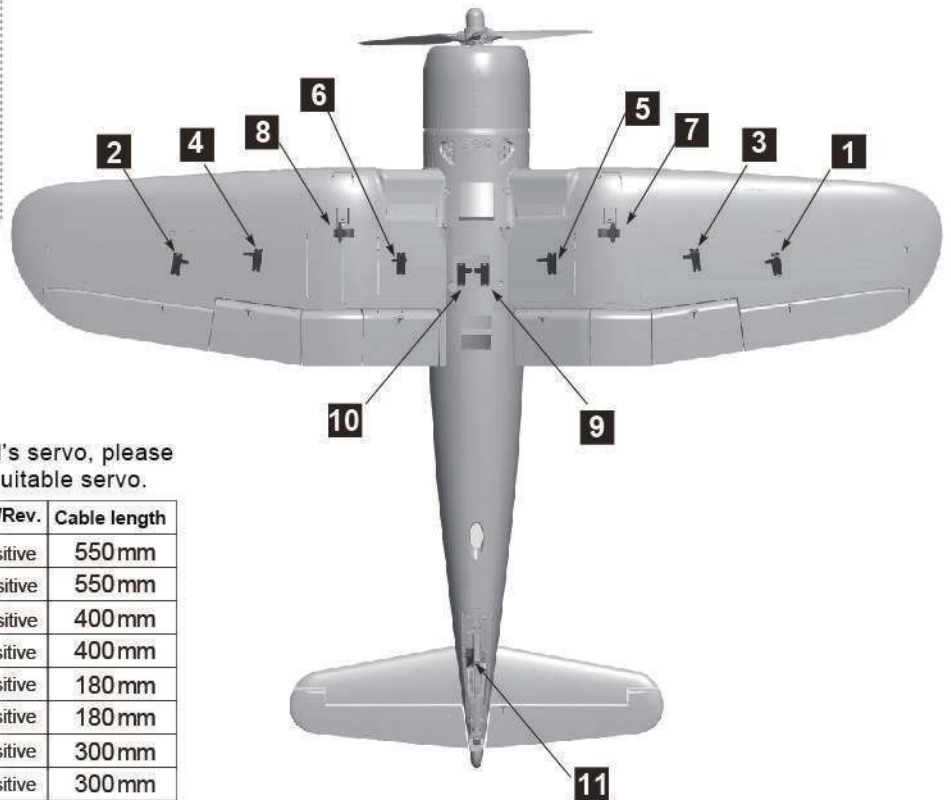
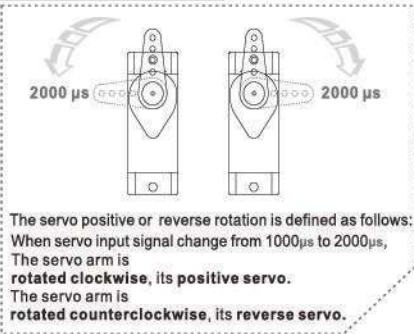
## Dual Rates

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
<b>Low Rate</b>	H1/H2 32mm/32mm D/R Rate: 100%	H1/H2 16mm/16mm D/R Rate: 50%	H1/H2 32mm/32mm D/R Rate: 65%	H1 20mm
<b>High Rate</b>	H1/H2 32mm/32mm D/R Rate: 100%	H1/H2 20mm/20mm D/R Rate: 75%	H1/H2 43mm/43mm D/R Rate: 100%	H1 33mm

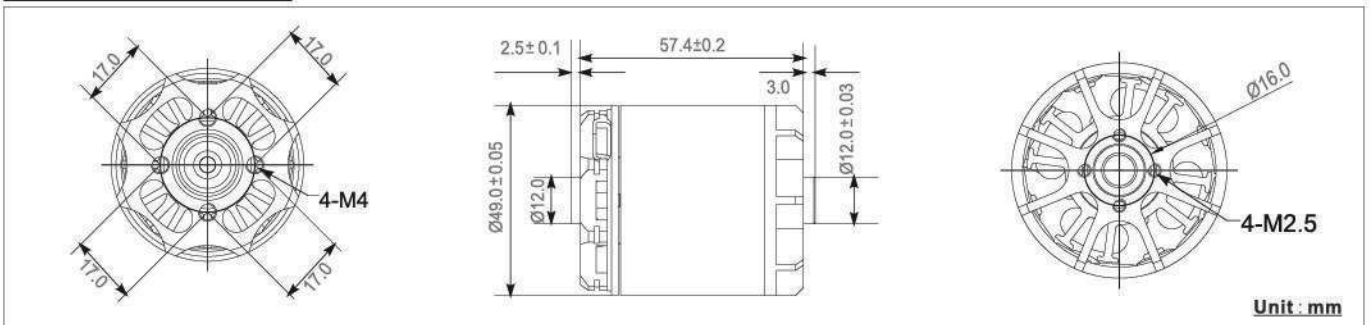
## Servo Direction



If you need to purchase another brand's servo, please refer to the following list to choose a suitable servo.

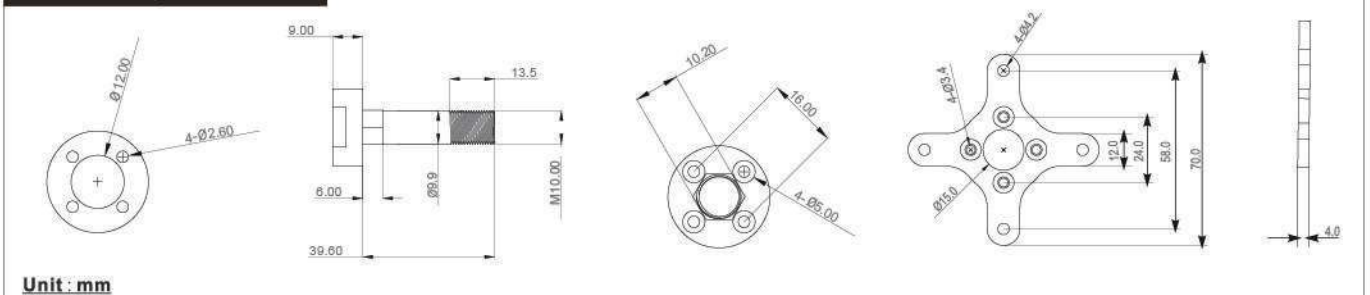
Position	Servo regulation	No.	Pos./Rev.	Cable length
Aileron(L)	17g Digital-MG	1	Positive	550 mm
Aileron(R)	17g Digital-MG	2	Positive	550 mm
Flap(Out side-Left)	17g Digital-MG	3	Positive	400 mm
Flap(Out side-Right)	17g Digital-MG	4	Positive	400 mm
Flap(In side-Left)	17g Digital-MG	5	Positive	180 mm
Flap(In side-Right)	17g Digital-MG	6	Positive	180 mm
Landing gear door(Left)	9g Plastic-MG	7	Positive	300 mm
Landing gear door(Right)	9g Plastic-MG	8	Positive	300 mm
Rudder	17g Digital-MG	9	Positive	180 mm
Elevator	17g Digital-MG	10	Positive	180 mm
Rear gear steering	9g Digital-MG	11	Positive	750 mm

## Motor Specifications



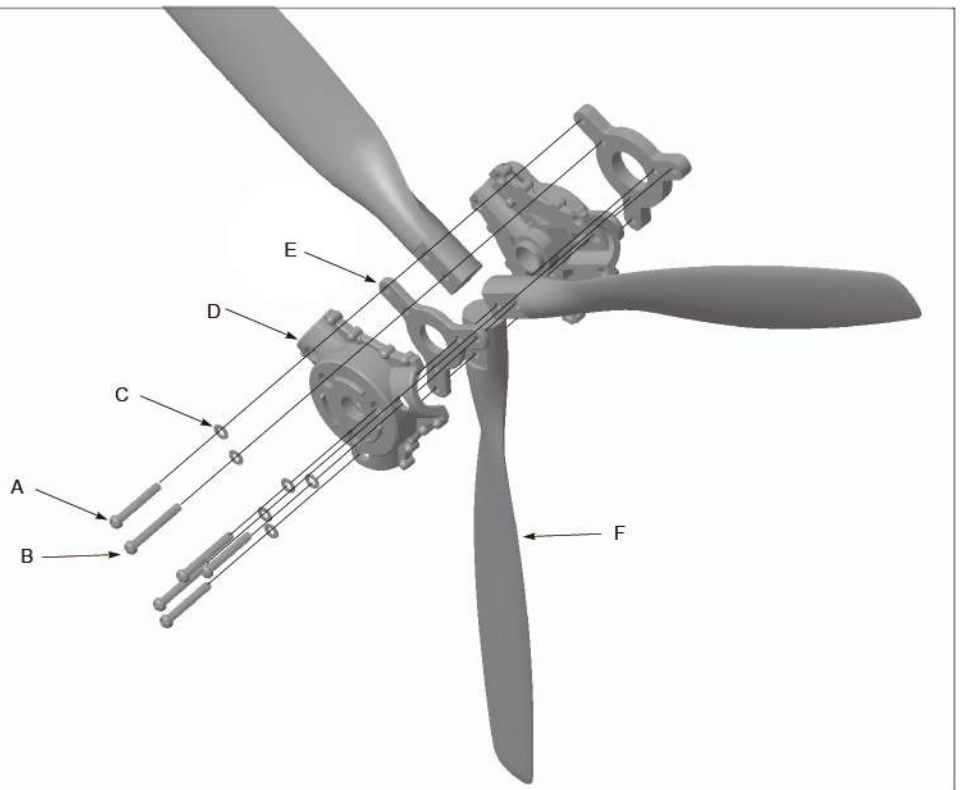
Item No.	Propeller	Motor Specifications	Use voltage (V)	Current(A)	Max power (W)	Pull(g)	Efficiency (g/w)	Rotating speed (rpm)	Weight (g)
MO150551	3-Blade 18×12	5055-340KV	22.2	55	1200	5800	4.9	5100	410

## Motor Shaft, X-fixed base



**Install Propeller**

- A- Screw –Out side (PM3x22mm 3 pcs)
- B- Screw –In side (PM3x25mm 3 pcs)
- C- Anti-loose gasket (M3x6 pcs)
- D- propeller fixing plate (2 pcs)
- E- propeller fixing frame (2 pcs)
- F- Propeller (18x12mm)



- A- Screw (PA3x8mm 1 pcs)
- B- Spinner
- C- Propeller fixing bolt





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