

F/A-18C Hornet

Freewing 1/11.5 Scale EDF Jet

Wingspan:1034mm

Length: 1500mm

Empty Weight:2640G[w/o Battery]





















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Introduction

Thank you for purchasing our Freewing 80/90mm EDF Super Scale Jet, the F/A-18C Hornet! It is 1500mm in length with a wingspan of 1034mm. This 1/11.5 scale F/A-18C uses EPO material and super scale details such as a scale pilot figure, LED lights, flap hinges, antennas, etc. All control surfaces are easily removable and the MCE-E consolidates wiring for optimal organization. The elevator's control hardware is completely concealed within the fuselage, and the rudder servos are recessed to reduce their observability.

The Freewing F/A-18C can be configured in either 80mm or 90mm power system (Subject to Freewing power system equipment).

The Freewing F/A-18C PNP Version includes a preinstalled 90mm EDF power system comprising a 12-blade EDF impeller, 3668-1960KV In-runner motor, 120A ESC. The recommended battery is a 6S 5000mAh 35C+ battery, providing a top speed in excess of 170KPH / 106.5MPH.

The ARF PLUS Version was specially designed to also be able to accommodate an 80mm EDF power system, if a user decides to install his/her own lighter power system. Two foam "shims" are included in the box to facilitate the narrower 80mm EDF.

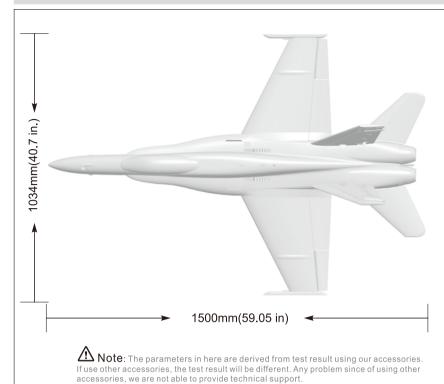
When landing, there is no need to intervene too much to maintain the direction, the direction stability is good, and it is not easy to be biased. The shortest takeoff distance is about 25M. The air posture is stable, easy to control, and the action is responsive. It maintains a stable flight attitude at high speeds and low speeds. In the case of a low-altitude, low-speed, large-turn maneuver, maintain adequate throttle to complete the maneuver smoothly. When landing, the flaps decelerate the aircraft significantly, and at the same time, the slight bowing effect caused by the opening of the flaps gives the aircraft a stable and gentle rate of decline, making the landing sequence easier to handle.

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:: 150g/dm² Wing Area: 22 dm²

Motor: 3668-1960KV In-runner Servo: 9g MG Digital servo (2pcs) 9g Hybrid Digital servo (5pcs) 23g MG Digital servo (2pcs)

ESC: 120A with 8A UBEC
(Thrust Reverse Function)
Ducted fan: 90mm 12-blade fan
Weight: 2640g (w/o Battery)

Thrust: 4200g

Other features

MaterialEPO

Aileron: Yes Split Flaps: Yes
Elevator: Yes Rudder: Yes
Landing gear:Retract landing gear

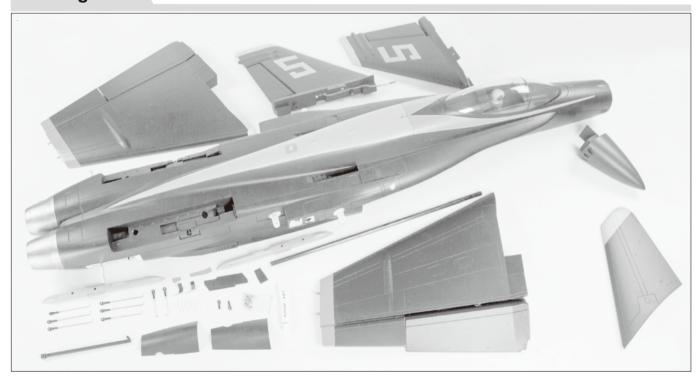
controlled by electric worm

Cabin door:nose gear electric cabin door

Scale LED lights
Scale Pilot figure (1pcs)

LiPo Battery: 6S 4500-5500mAh (1pcs)

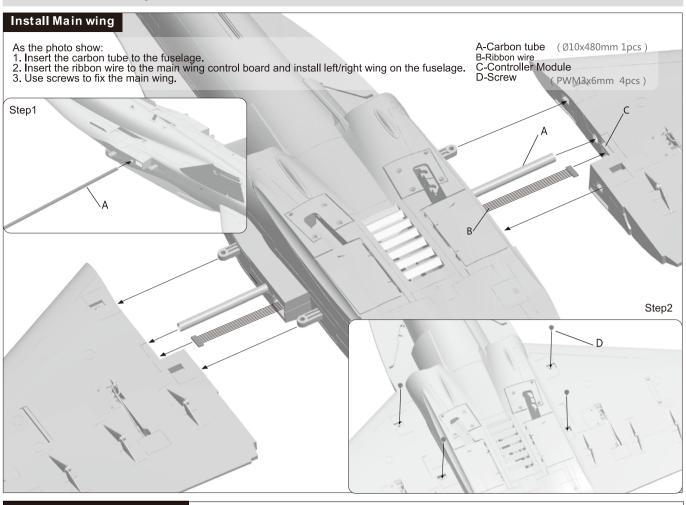
Package list

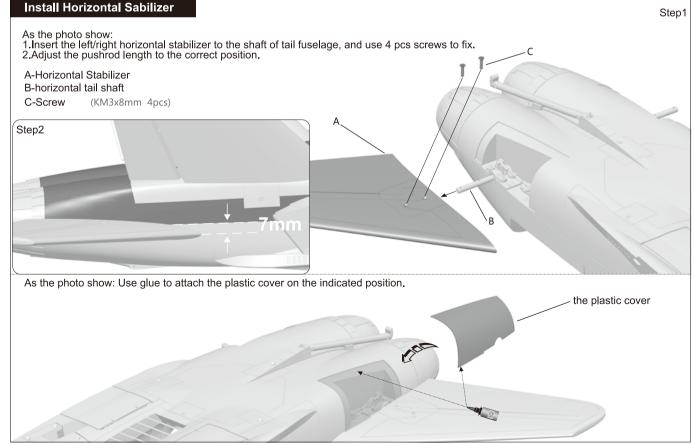


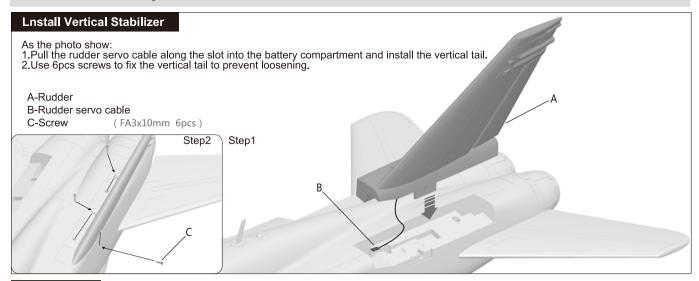
Different equipment include different spareparts. Please refer to the following contents to check your sparepart list.

No.	Name	PNP ARF Plus		Airframe	
1	Fuselage	Pre-installed all electronic parts	Pre-in sta∎ed se rvo	No electronic equipment	
2	Main wing	Pre-in sta ∎ed a∎ el ec tron ic parts	Pre-in sta ∎ed se rvo	No electronic equipment	
3	Horizontal tail	Pre-in sta∎ed all el ec tron ic parts	Pre-in sta∎ed se rvo	No electronic equipment	
4	Vertical tail	Pre-in sta∎ed all el ec tron ic parts	Pre-in sta ∎ed se rvo	No electronic equipment	
5	Drop tank	√	√	V	

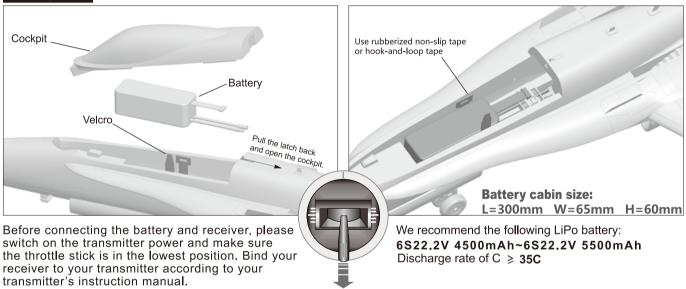
No.	Name	PN P	ARF Plus	Airframe	
6	Carbon tube	√	√	√	
7	Pushrod instructions	√	√	√	
8	Non-slip mat & Glue	√	√	V	
9	Manual	√	√	1 /	
10	Screw	√	√	√	



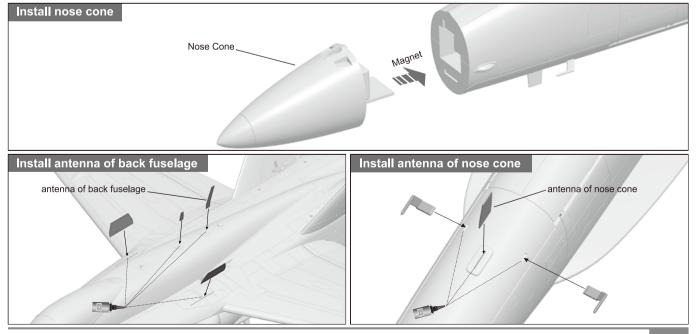




Battery Size



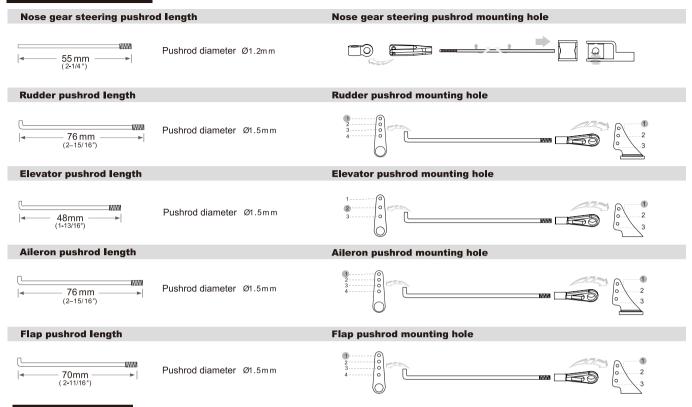
Install Other Accessories



F/A-18C Hornet

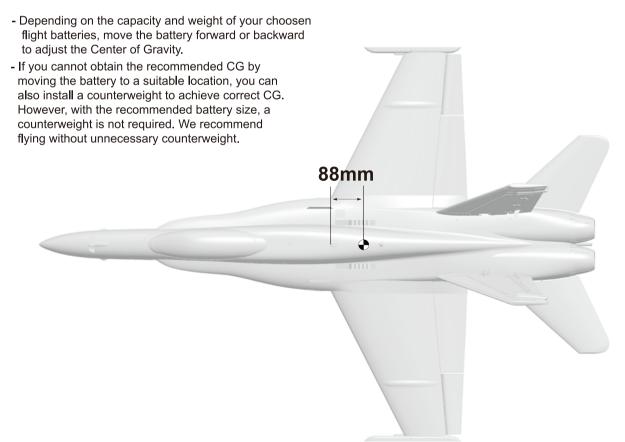
reewing *

Pushrod instructions



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.



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 Right



Rudder

Stick Left



Stick Right



Elevator

Stick Up

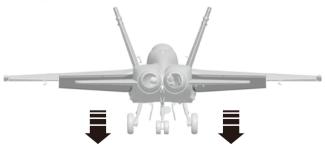


Stick down



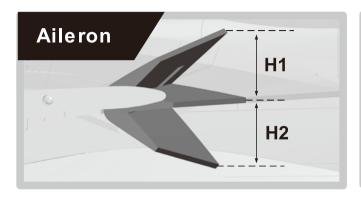
Flaps

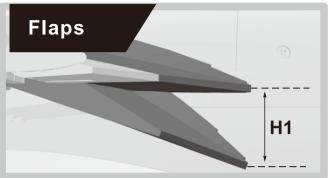
Flaps down



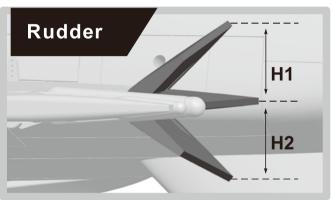
Dual Rates

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.





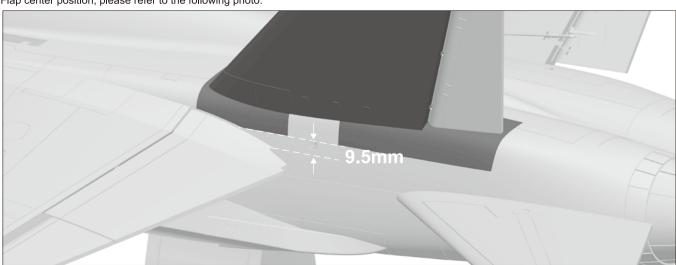




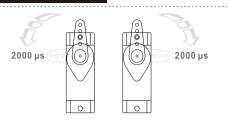
	Aileron(measured closest to the fuselage)	Rudder(Measured from the bottom)	Elevator(measured closest to the fuselage)	Flaps	
Low Rate	H1/H2 26mm/ 26mm D/R Rate: 80%	H1/H2 23mm/23mm D/R Rate: 80%	H1/H2 30mm/30mm D/R Rate: 65%	H1 21mm	
High Rate	H1/H2 32mm/32mm D/R Rate: 100%	H1/H2 27mm/27mm D/R Rate: 100%	H1/H2 36mm/36mm D/R Rate: 80%	H1 43mm	

⚠ Flight Notes:

Flap center position, please refer to the following photo:



Servo Direction

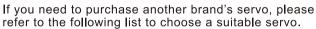


The servo positive or reverse rotation is defined as follows: When servo input signal change from $1000\mu s$ to $2000\mu s$,

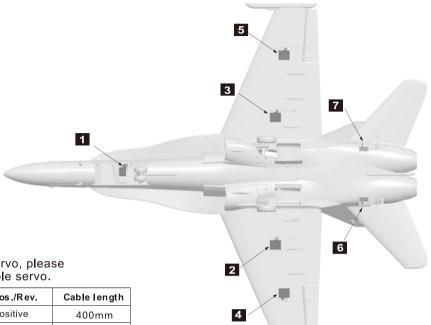
rotated clockwise, its positive servo.

The servo arm is

rotated counterclockwise, its reverse servo.

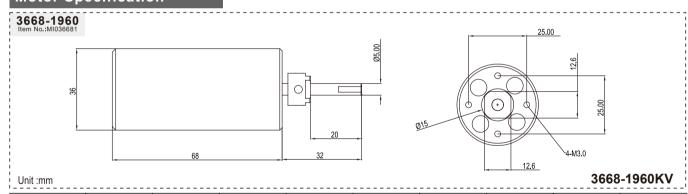


Pos itio n	Servo regulation	No. Pos./Rev.		Cable length	
Nose gear steering servo	9g Digital-Hybrid	1	Positive	400mm	
Flap(R)	9g Digital-MG	2	Positive	200mm	
Flap(L)	9g Digital-MG	3	Positive	200mm	
Aileron(R)	9g Digital-Hybrid	4	Positive	300mm	
Aileron(L)	9g Digital-Hybrid	5	Positive	300mm	
Elevator(R)	23g Digital-MG	6	Positive	100mm	
Elevator(L)	23g Digital-MG	7	Reverse	100mm	
Rudder(R)	9g Digital-Hybrid	8	Positive	200mm	
Rudder(L)	9g Digital-Hybrid	9	Positive 200mm		





Motor Specification

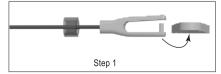


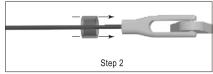
Item No.	EDF Fans	Use voltage (V)	Current(A)	Max power (W)	Thrust(g)	Efficiency (g/w)	Motor(KV)	Use ESC (A)	Weight (g)
E72216	90mm 12-Blade	22.2	110	2442	4300	1.76	3668-1960	120	400

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.











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