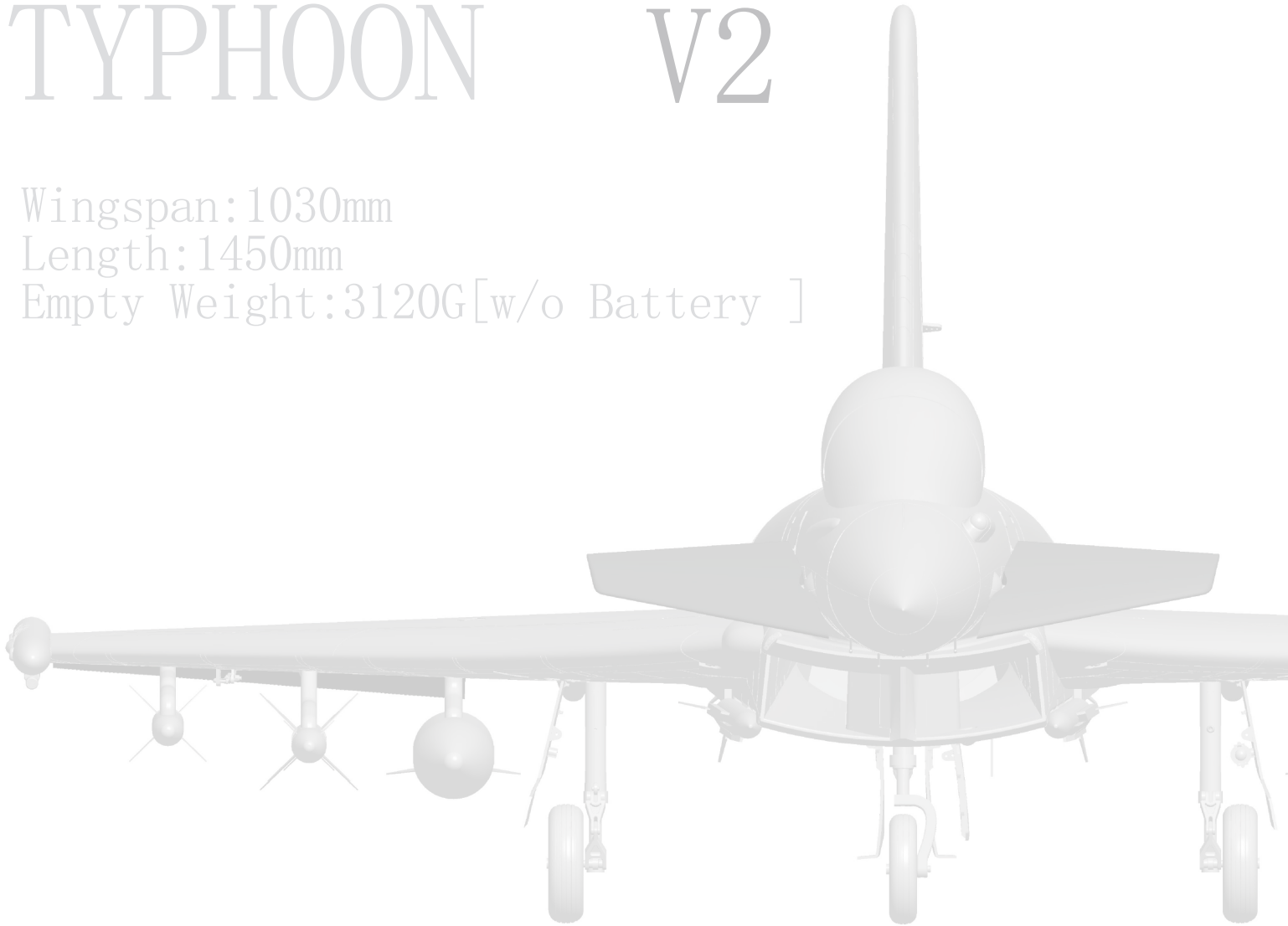


EUROFIGHTER TYPHOON V2

Wingspan:1030mm

Length:1450mm

Empty Weight:3120G[w/o Battery]



⚠ 飞行注意事项:

- 1.首次飞行前需要给电调校准油门, 否则涵道无法发挥出最大推力。
- 2.更换摇控器后需要给电调校准油门, 否则涵道无法发挥出最大推力。
- 3.反推刹车: 需要使用油门反推刹车功能的, 需将油门反推刹车信号线插入到接收机的一个空闲开关通道上 (信号范围和油门行程一致), 通过该通道控制电机正反转, 通道行程0-50%为电机默认设置转向, 通道行程50%-100%触发电机反转。触发反转时, 电机先刹停, 再反转加速至油门摇杆输出的油门量。初次上电该通道摇杆所处位置需为该通道行程0-50%范围内 (最好为0), 否则电调通电以后会提示油门信号丢失报警。

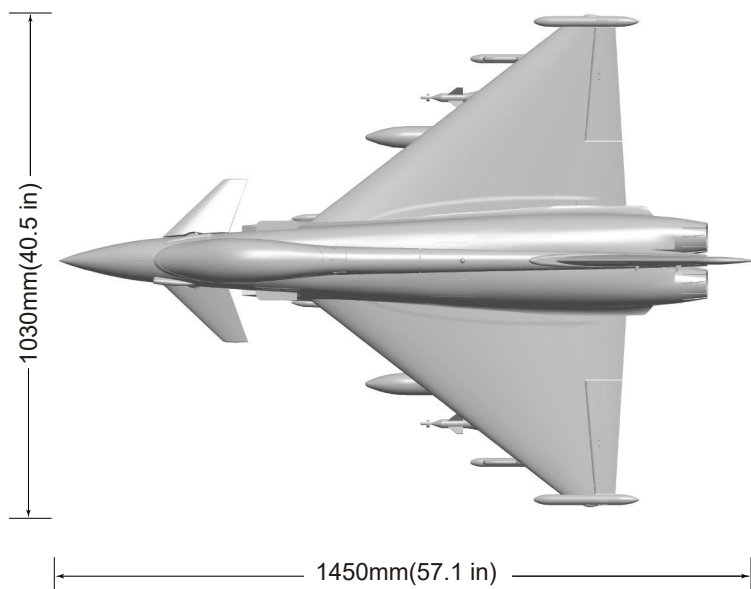
⚠ Flight precautions :

- 1.Before the first flight, ESC needs to calibrate the throttle, otherwise, the EDF power system cannot exert its maximum thrust.
- 2.After replace the other Remote Control, ESC needs to calibrate the throttle, otherwise, the EDF power system cannot exert its maximum thrust.
- 3.Reverse thrust function:When use the throttle reverse thrust function, the throttle reverse thrust signal cable should be inserted into an idle switch channel of the receiver (the signal range is consistent with the throttle travel), through which the forward and reverse rotation of the motor can be controlled. The channel travel is 0-50% of the motor's default setting direction, and the channel travel is 50% - 100% to trigger the motor's reverse rotation. When the reverse rotation is triggered, the motor stops first, and then reverses and accelerates to the throttle output of the throttle rocker.When the power is turned on for the first time, the rocker position of this channel should be within the range of 0-50% of the channel travel (preferably 0), otherwise the alarm of the throttle signal loss will be prompted after the power is turned on.

1	Note	15	重要提示
2	Product basic information	16	产品规格参数
2	Package list	16	包装列表
	PNP Assembly instructions		PNP 组装步骤介绍
3	Install fuselage	17	机身组装
4	Install canard	18	鸭翼组装
4	Install main wing	18	主翼组装
5	Install main wing	19	主翼组装
6	Install vertical stabilizer	20	垂尾组装
6	Install nose cone	20	机头罩组装
6	Install missiles	20	导弹组装
7	Install small plastic parts	21	其它配件组装
8	Install battery	22	电池介绍
8	Pushrod instructions	22	舵面控制钢丝尺寸及安装孔位
8	Important additional notes	22	重要附加说明
9	Center of gravity	23	重心示意图
9	Canard wing install diagram	23	鸭翼安装位置示意图
	PNP Parameter setting		PNP 调试介绍
10	Setting and adjustment instructions	24	飞机调机说明
11	Flight precautions	24	飞行注意事项
12	Control direction test	25	模型舵面测试
13	Dual rates	26	舵量范围
13	Remote control EXP setting suggestion	26	遥控器 EXP 设置建议
	Pre-installed component overview		预装电子配件介绍
14	Servo direction	27	舵机介绍
14	Motor specification	27	电机参数

- 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.
- 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.

⚠ 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: 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.

Standard Version 6S

Wingload: 85.5 g/dm²
 Wing Area: 43.4 dm²
 Motor: 3668-1960KV I/R Motor
 Servo: 9g Hybrid digital servo ×4
 9g MG digital servo ×2
 17g MG digital servo ×3
 ESC: 120A Brushless ESC (Thrust Reverse Function)
 Ducted fan: 90mm 12-blade fan
 Weight: 3120g (w/o Battery)

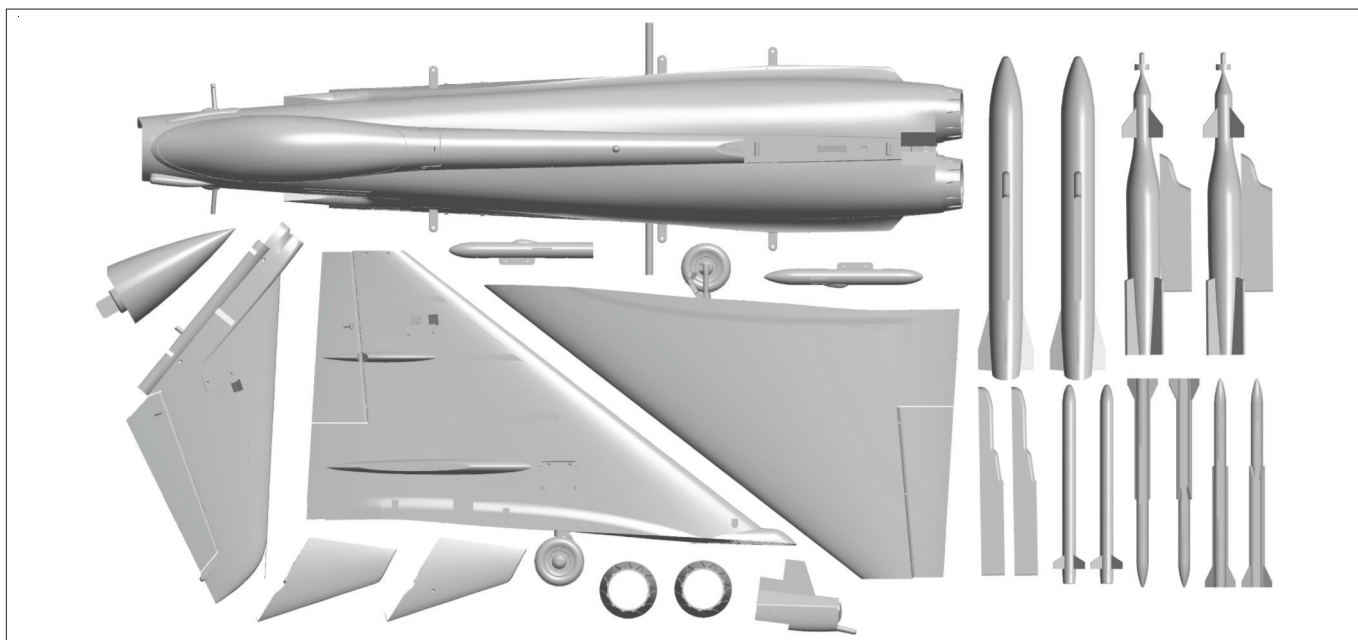
Deluxe Version 8S

Motor: 4075-1350KV I/R Motor
 ESC: 120A Brushless ESC (Thrust Reverse Function)
 Ducted fan: 90mm 12-blade fan
 Weight: 3220g (w/o Battery)

Other features

Material: EPO
 Landing gear: Electric Landing Gear
 Cabin door: Nose gear cabin door
 Rear gear cabin door
 Scale Pilot figure Simulated formation lights
 Li-Po Battery: 6S 5000-6000mAh (1pcs)

Package List



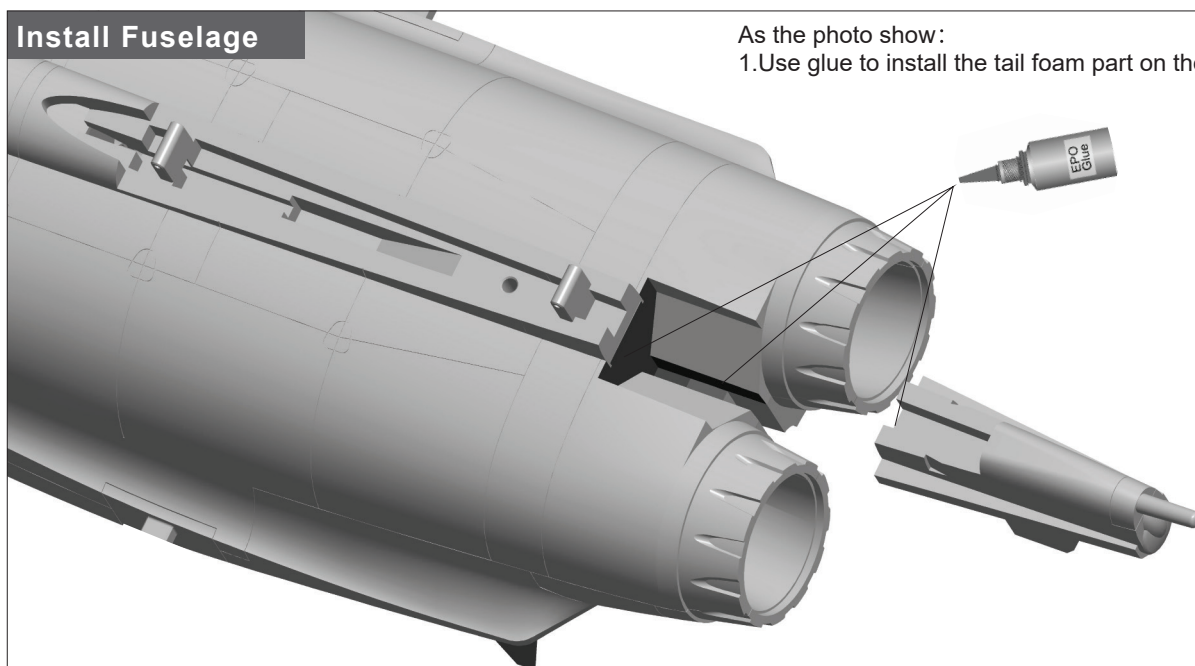
Different equipment include different spareparts. Please refer to the following contents to check your sparepart list.

No.	Name	PNP	ARF Plus	No.	Name	PNP	ARF Plus
1	Fuselage	Pre-installed all electronic parts	Pre-installed servo	6	Missiles	✓	✓
2	Main wing	Pre-installed all electronic parts	Pre-installed servo	7	Pylons	✓	✓
3	Canard	✓	✓	6	Pushrod	✓	✓
4	Vertical tail	Pre-installed all electronic parts	Pre-installed servo	7	Screw bag	✓	✓
5	Nose cone	✓	✓	8	Manual	✓	✓

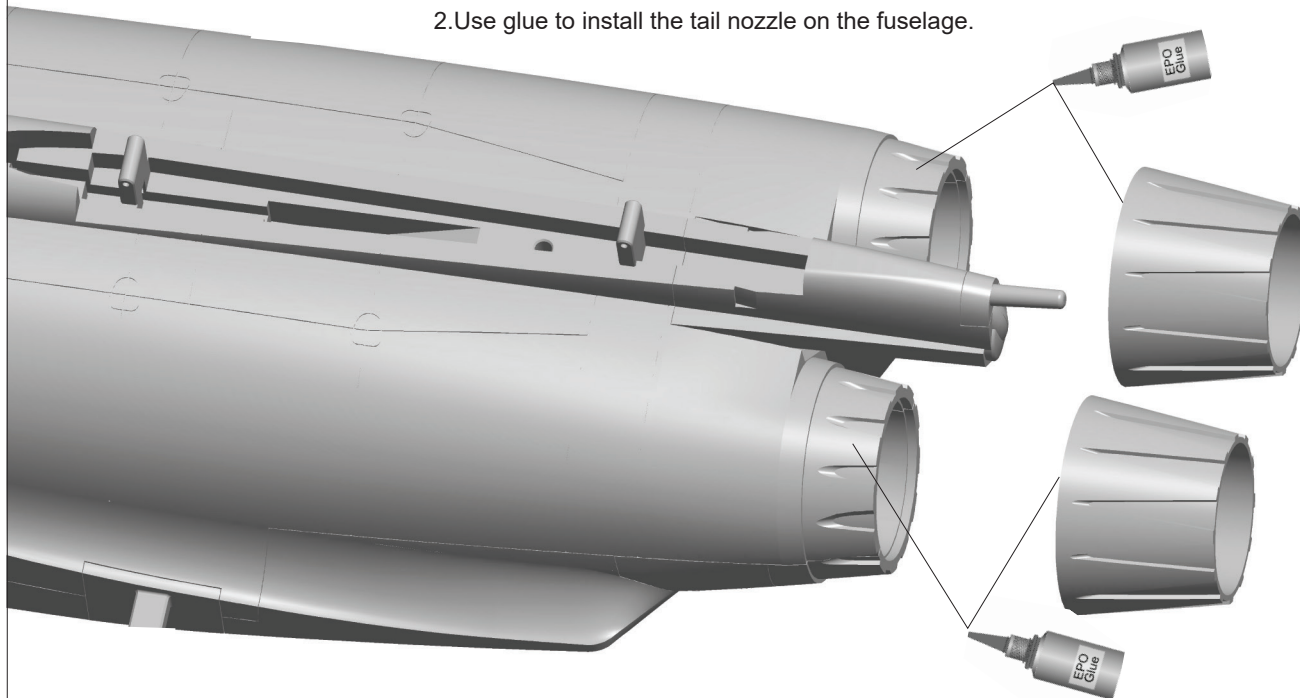
Install Fuselage

As the photo show:

1. Use glue to install the tail foam part on the fuselage.



2. Use glue to install the tail nozzle on the fuselage.

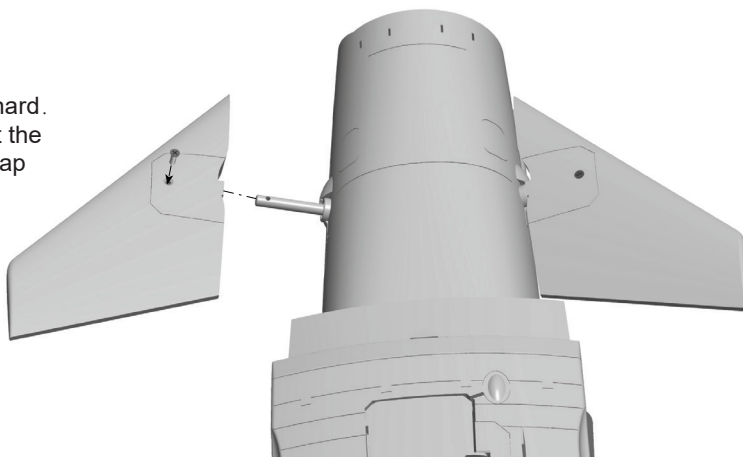


Install Canard

As the photo show:

1. Turn over the fuselage to belly up, then install the canard.
2. Put the canard into the rotating shaft, and confirm that the screw holes on the canard plastic part completely overlap with the screw holes on the rotating shaft, and then lock in the screws to fix them.

Screw (KM3X6mm 2PCS)

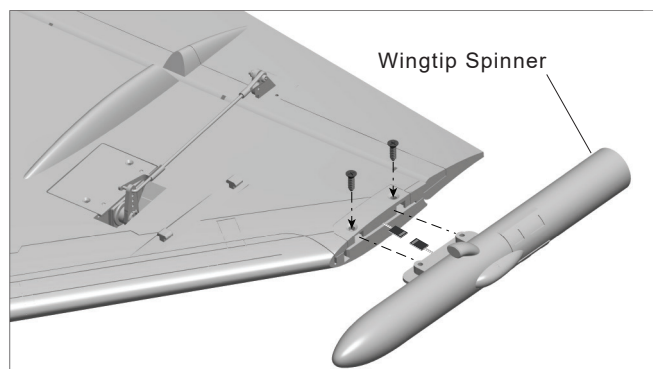
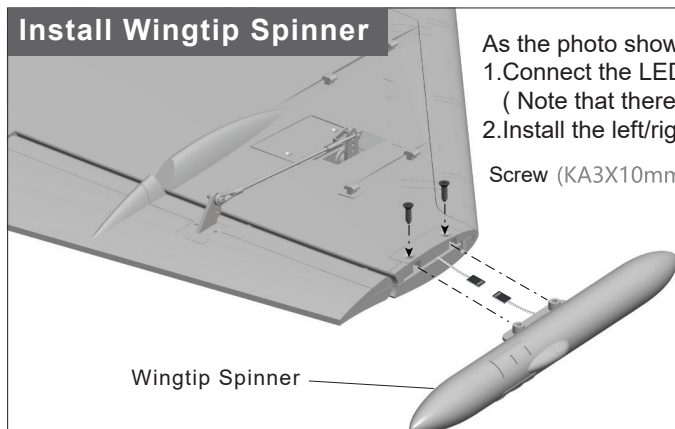


Install Wingtip Spinner

As the photo show:

1. Connect the LED light plug of wingtip on the LED light plug of main wing. (Note that there are positive and negative poles).
2. Install the left/right wingtip cowl on the main wing, and fix it by screw.

Screw (KA3X10mm 4PCS)



Install Main Wing

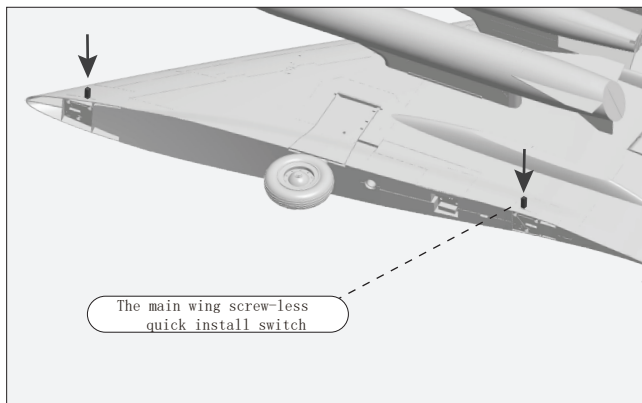
As the photo show: 1. Press the fuselage screw-less quick install switch to unlock it ;

- 1 Two different status diagrams of the main wing screw-less quick install switch. The working mode is to press the button to the bottom and release it. The button pops up to the highest position, which is the unlocked status. Once the button is pressed to the bottom again and released, but the button does not pop up, which is the locked status.

Unlock status

As shown in the following photo:

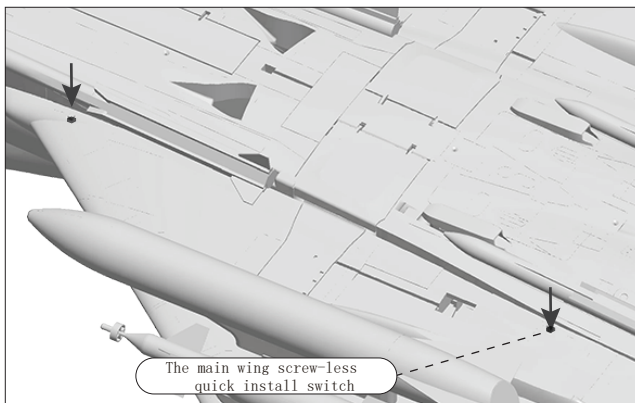
Press the main wing screw-less quick install switch to the bottom and release it. The button pops up to the highest position, indicating that the main wing has been unlocked and can be easily removed and installed.



Lock status

As shown in the following photo:

After installed the main wing, press again the main wing screw-less quick install switch to the bottom and release it. If the button does not pop up, it is the locked status. At this point, pull the main wing outward and can not remove it.



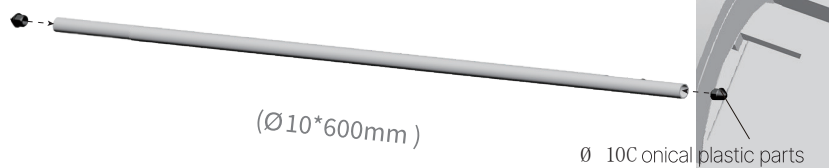
Install Main Wing

As the photo show:

1. Use glue to fix the 【 Conical plastic part 】 on two carbon tubes respectively;

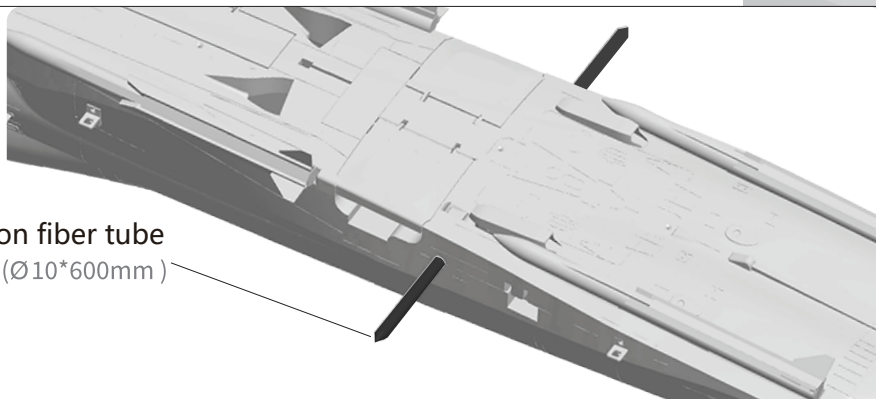
Carbon tube (Ø10*600mm)

Conical plastic parts (Ø10mm)

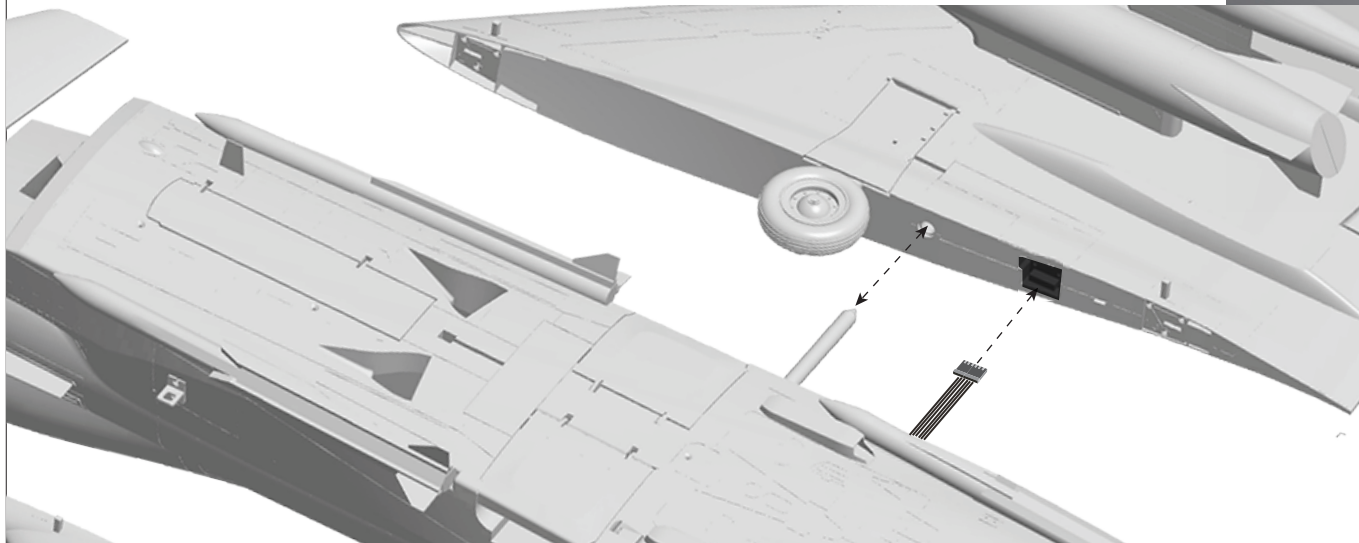


2. Insert carbon fiber tube A and carbon fiber tube B into the fuselage respectively

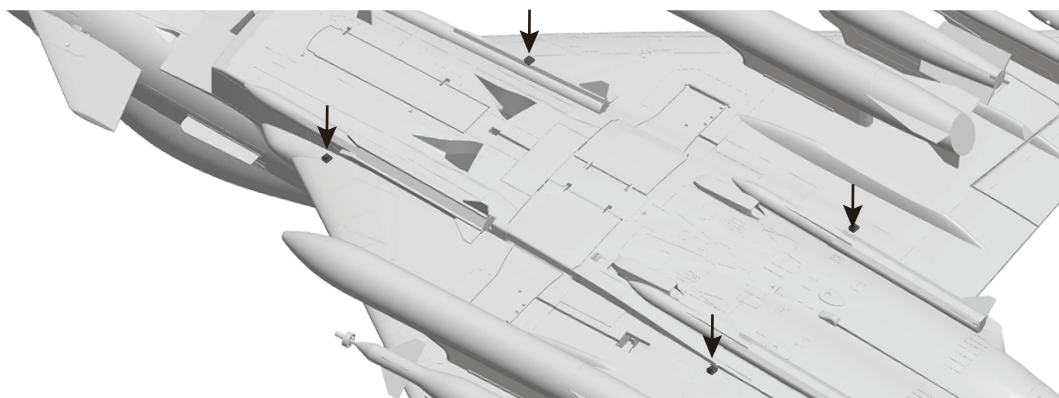
carbon fiber tube
(Ø10*600mm)



3. Align the main wing carbon tube with the fuselage, remove the ribbon cable from one end of the fuselage, connect it to the main wing slot, and push the main wing into the installation position of the fuselage;
(Repeat this step for the other main wing)



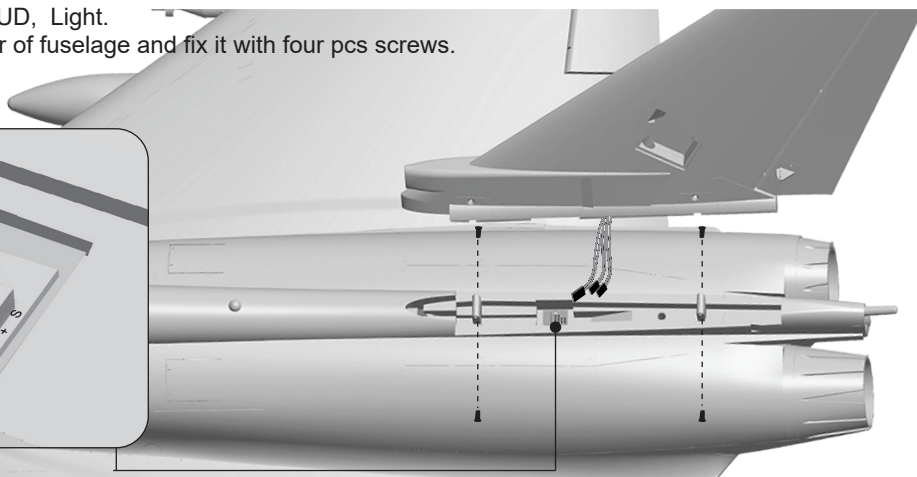
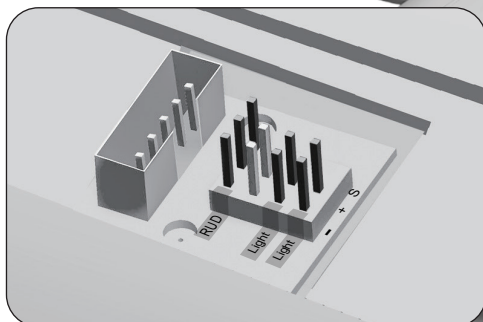
4. Press 4pcs main wing screw-less quick install switch, put it in the locked status.



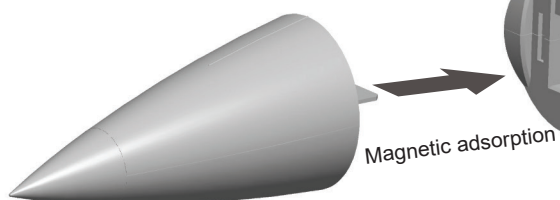
Install the Vertical tail

1. Insert the rudder servo and LED extension wire to the vertical tail PCB control board, insert them to the interface of RUD, Light.
2. Install the vertical tail on the rear of fuselage and fix it with four pcs screws.

Screw (KA3X10mm 4PCS)

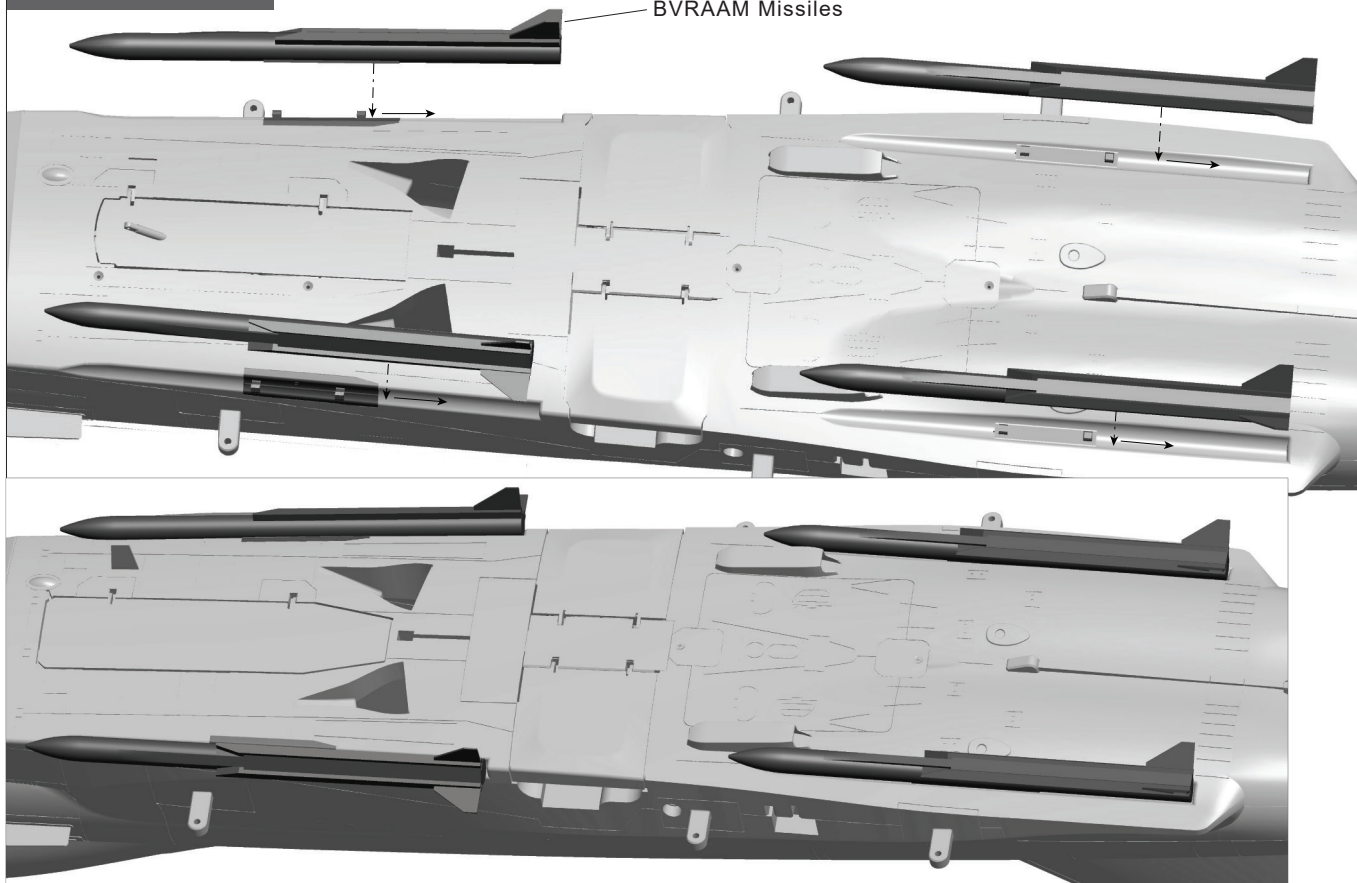


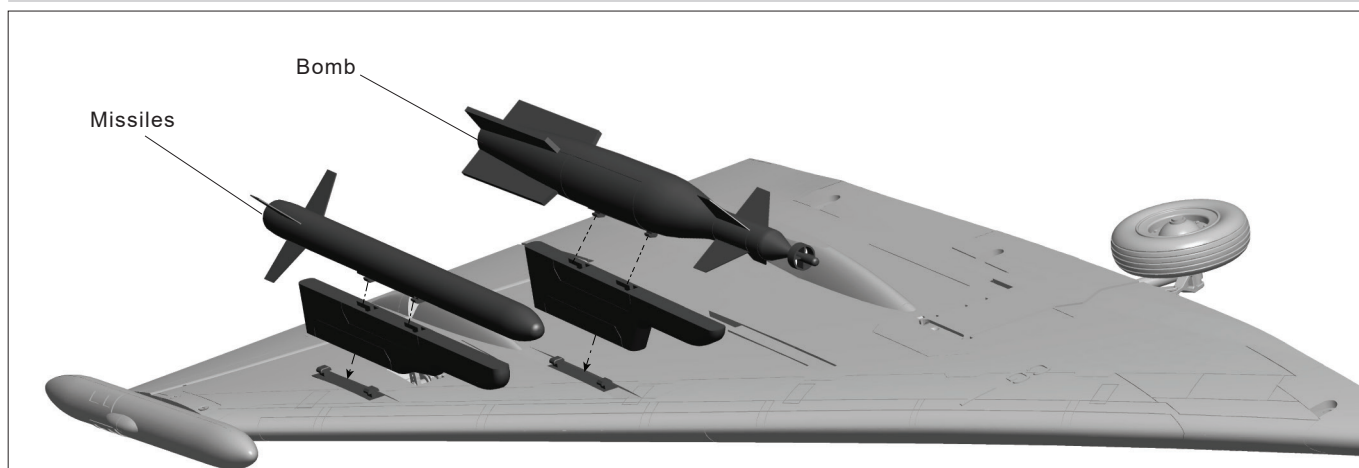
Install Nose Cone



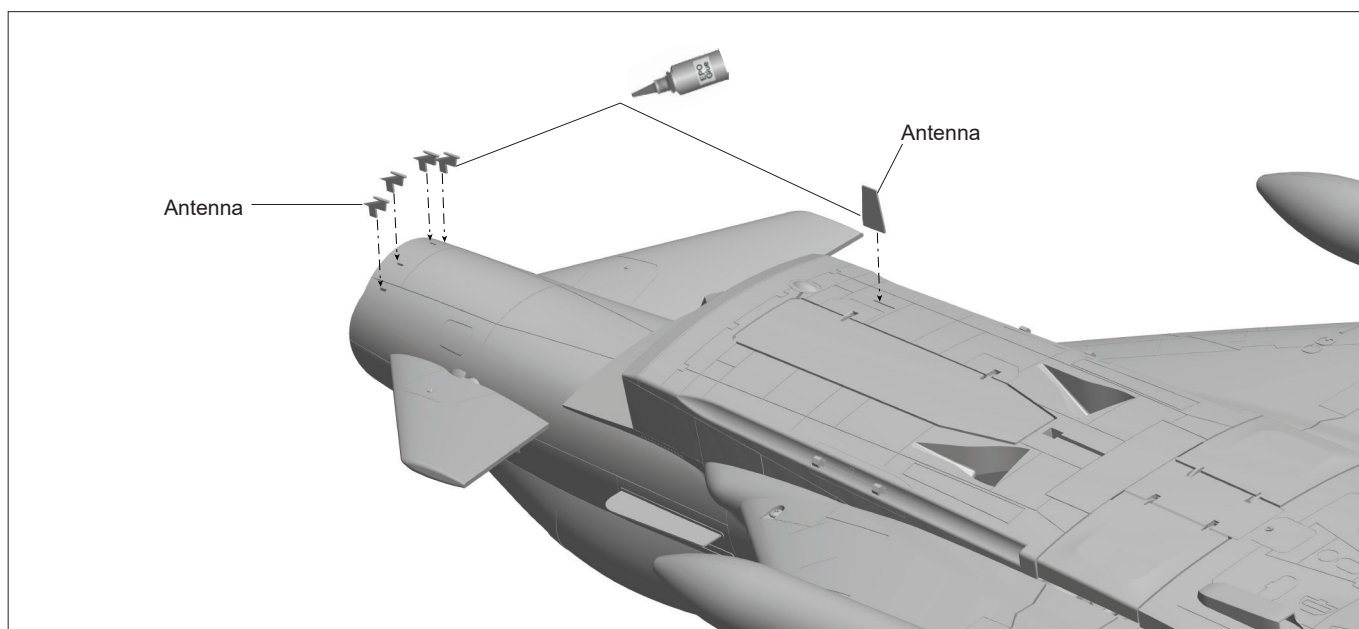
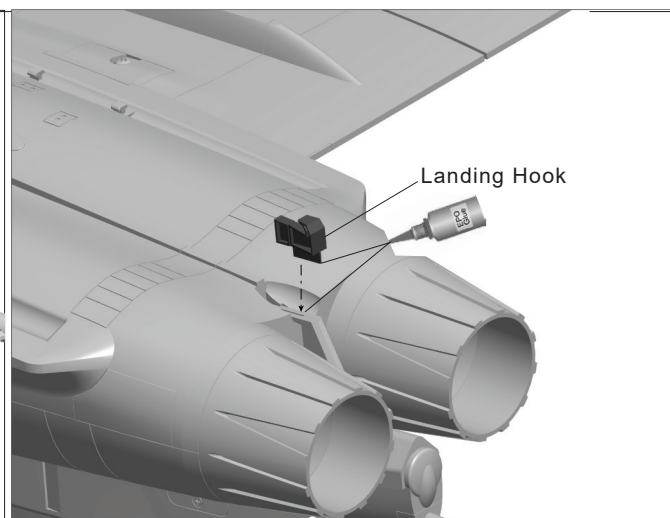
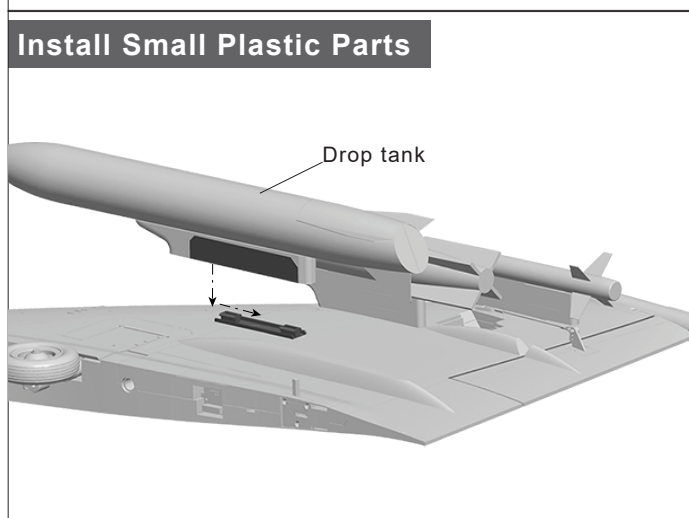
Install Missiles

BVRAAM Missiles

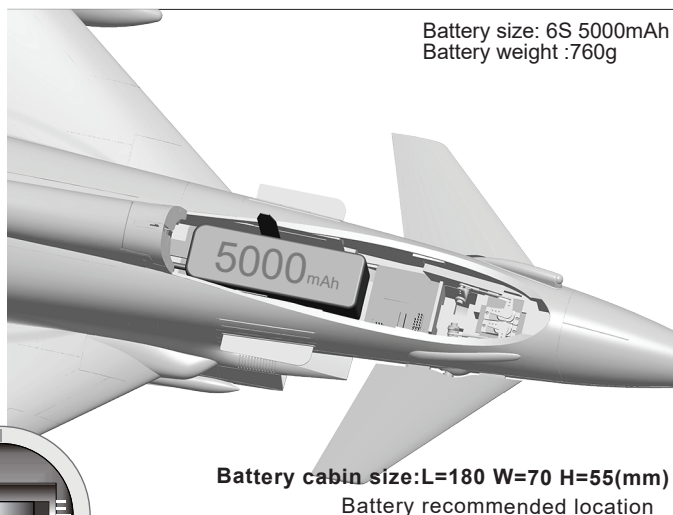
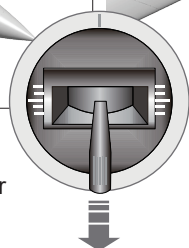
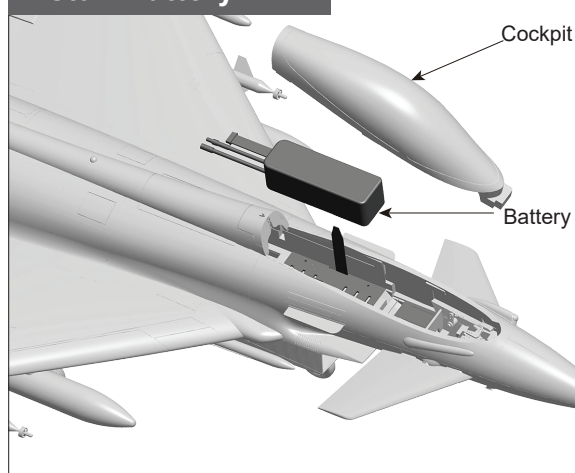




Install Small Plastic Parts



Install Battery



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.

We recommend the following LiPo battery:
6S 22.2V 5000mAh~6S 22.2V 6000mAh
Discharge rate of C ≥ 35C

Pushrod instructions

Nose gear steering pushrod length



Nose gear steering pushrod mounting hole



Nose cabin door pushrod length



Nose cabin door pushrod mounting hole



Rear follow-up cabin door pushrod length



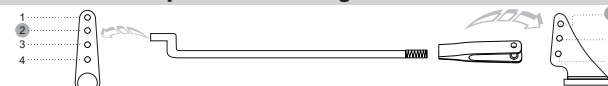
Rear follow-up cabin door pushrod mounting hole



Rear cabin door pushrod length



Rear cabin door pushrod mounting hole



Aileron pushrod length



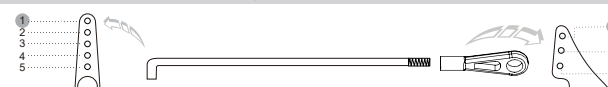
Aileron pushrod mounting hole



Rudder pushrod length



Rudder pushrod mounting hole



Canard pushrod length



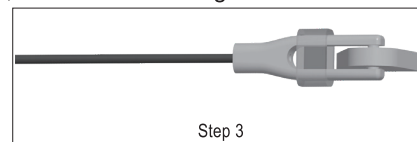
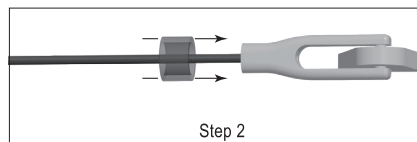
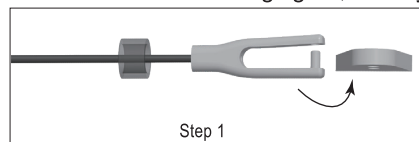
Canard pushrod mounting hole



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.

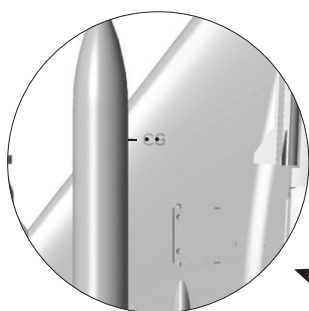
As shown in the following figure, when you buckle the clevis into the control surface horn, use the silicone ring to cover the clevis.



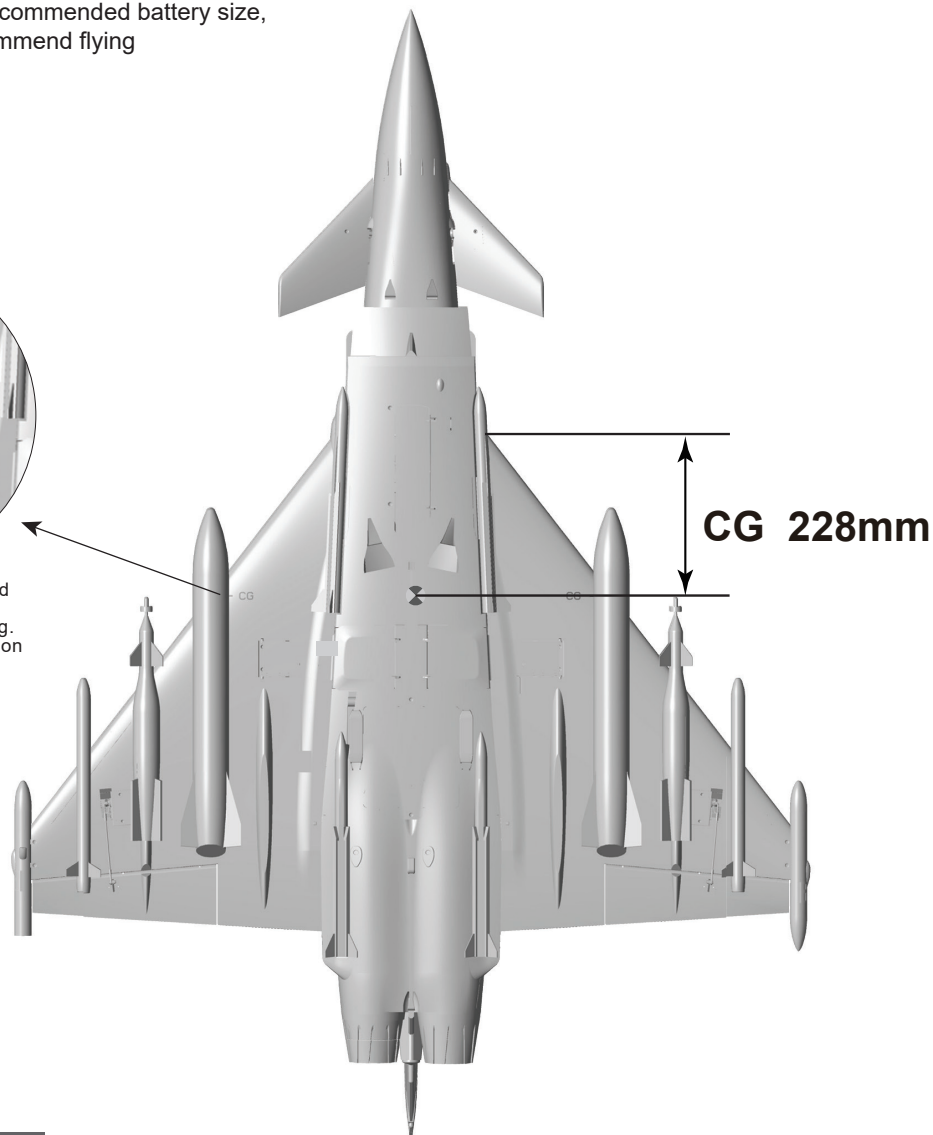
Center of Gravity

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 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.

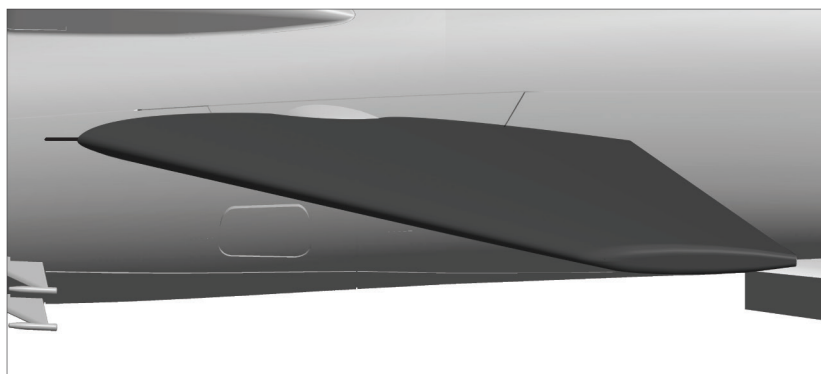


As the photo show, We marked the center of gravity on the bottom of the Main wing. Please confirm the CG based on this marked position.



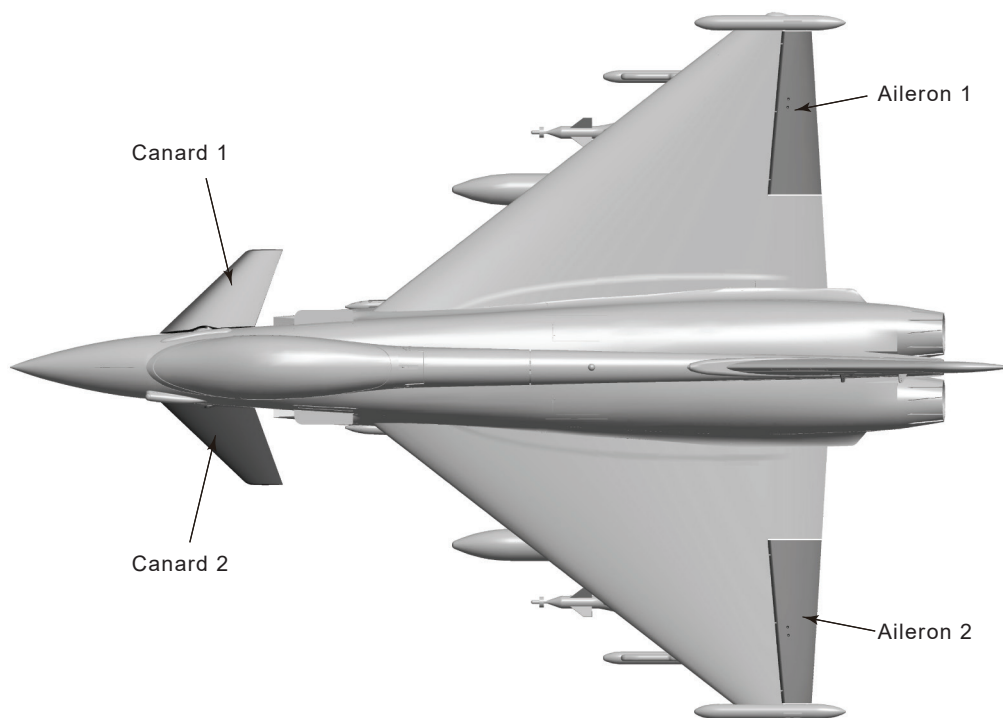
Canard Wing Install Diagram

The installation position of canard wing is shown in the below, there is a scale on the fuselage, you can use the leading edge of the canard to align with the scale line (the black line in the figure below).

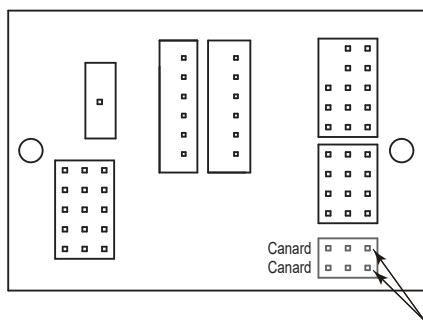


Setting and Adjustment Instructions

1. Eurofighter control board have been set the mix of delta wing and canard wing, so you don't need to set the mix at remote control, only need the normal fixed wing mode.

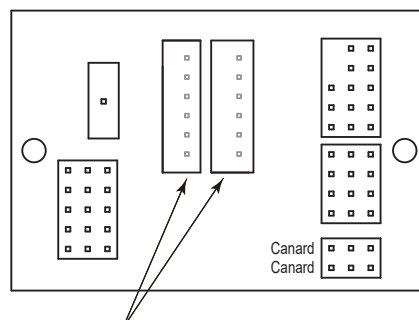


2. If you found the elevator control direction of Canard 1 and Canard 2 is not correct when adjusting, please try to adjust and exchange the two canard plugs position on the control board, as the following photo show.



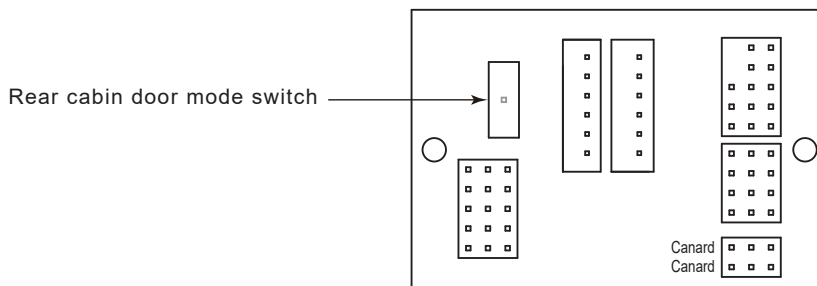
Please exchange the two canard plugs position

3. If you found the elevator control direction of elevator 1 and elevator 2 is not correct when adjusting, please try to adjust and exchange the two six-pin-plugs position on the control board, as the following photo show.



Please exchange the two six-pin-plugs position

4. Use method of Rear cabin door mode switch . Switch on is Dual stage mode, its: (Door Open—Gear Down—Door Close. And Door Open—Gear Up—Door Close). Switch off is Single stage mode, its: (Door Open—Gear Down. And Door Open—Gear Up) It shown as the following photo:

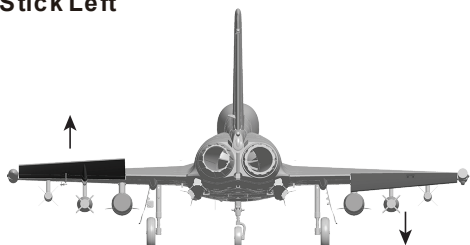
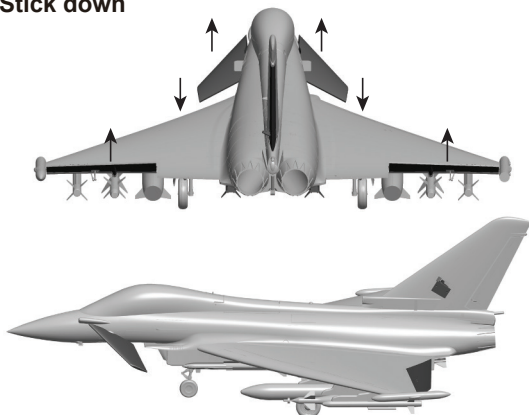
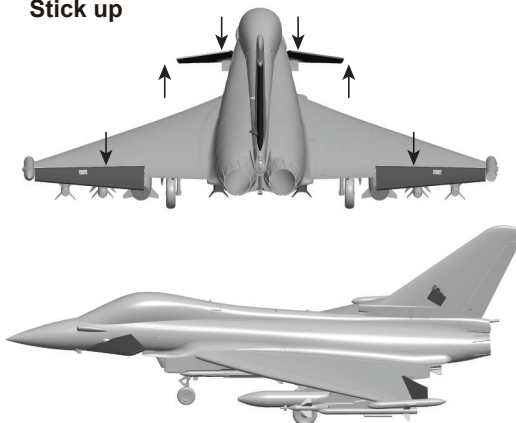


Flight Precautions

1. Before the first flight, ESC needs to calibrate the throttle, otherwise, the EDF power system cannot exert its maximum thrust.
2. After replace the other Remote Control, ESC needs to calibrate the throttle, otherwise, the EDF power system cannot exert its maximum thrust.
3. Reverse thrust function: When use the throttle reverse thrust function, the throttle reverse thrust signal cable should be inserted into an idle switch channel of the receiver (the signal range is consistent with the throttle travel), through which the forward and reverse rotation of the motor can be controlled. The channel travel is 0-50% of the motor's default setting direction, and the channel travel is 50% - 100% to trigger the motor's reverse rotation. When the reverse rotation is triggered, the motor stops first, and then reverses and accelerates to the throttle output of the throttle rocker. When the power is turned on for the first time, the rocker position of this channel should be within the range of 0-50% of the channel travel (preferably 0), otherwise the alarm of the throttle signal loss will be prompted after the power is turned on.

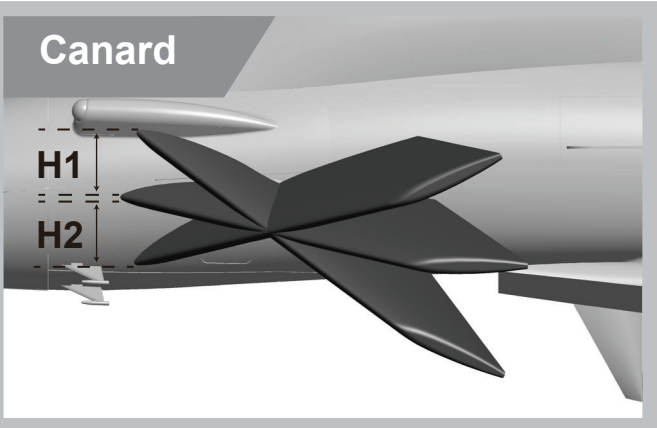
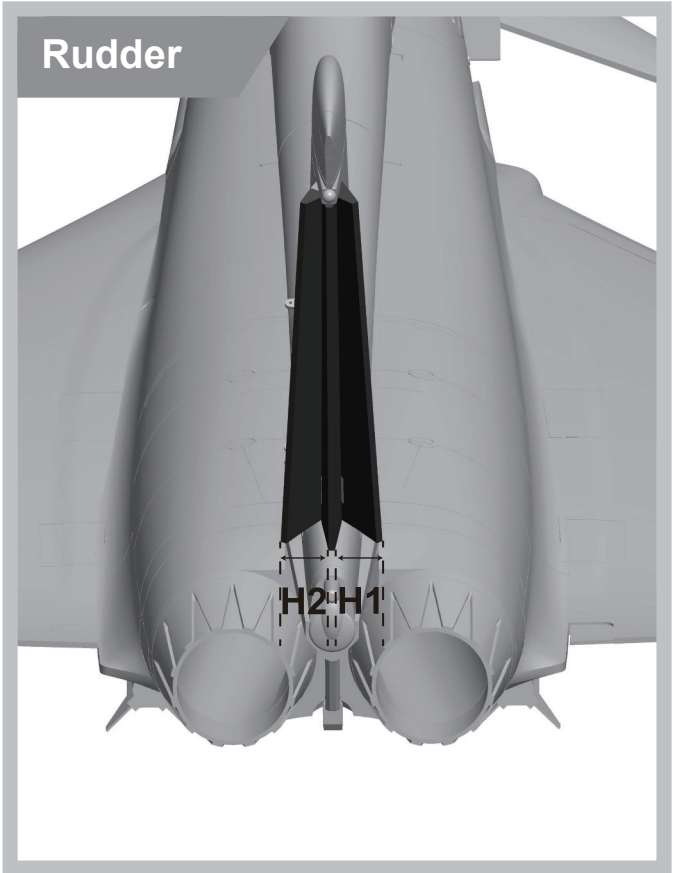
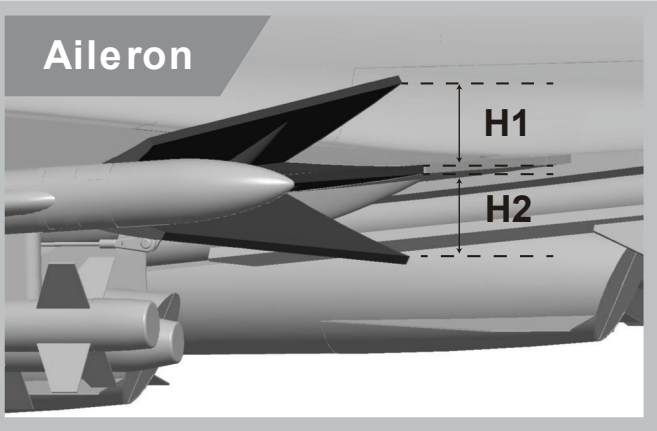
Control Direction Test

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****Canard****Stick down****Stick up****Rudder****Stick Left****Stick Right**

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.



	Main Wing Aileron	Main Wing Elevator	Canard Elevator	Rudder
Low Rate	H1/H2 16mm/16mm D/R Rate: 40%	H1/H2 35mm/35mm D/R Rate: 80%	H1/H2 20mm/20mm D/R Rate: 80%	H1/H2 27mm/27mm D/R Rate: 80%
High Rate	H1/H2 24mm/24mm D/R Rate: 60%	H1/H2 43mm/43mm D/R Rate: 100%	H1/H2 26mm/26mm D/R Rate: 100%	H1/H2 32mm/32mm D/R Rate: 100%

Remote Control EXP Setting Suggestion

1.Aileron EXP curve is shown as below:

Futaba brand Remote Control : EXP A -30
EXP B -30
Spektrum brand Remote Control : EXPO 30% 30%

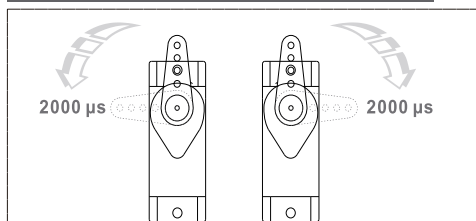
2.Elevator EXP curve is shown as below:

Futaba brand Remote Control : EXP A -30
EXP B -30
Spektrum brand Remote Control : EXPO 30% 30%

3.Rudder EXP curve is shown as below:

Futaba brand Remote Control : EXP A -30
EXP B -30
Spektrum brand Remote Control : EXPO 30% 30%

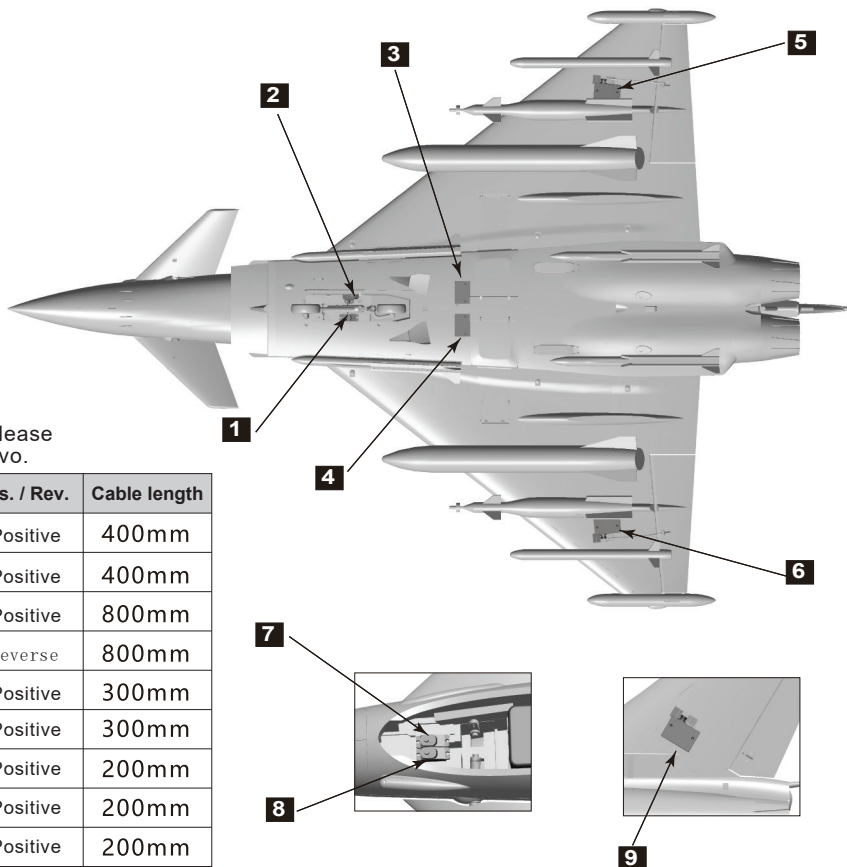
Servo Direction



The servo positive or reverse rotation is defined as follows:
When servo input signal change from 1000μs to 2000μs,
The servo arm is **rotated clockwise, its positive servo.**
The servo arm is **rotated counterclockwise, its reverse servo.**

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

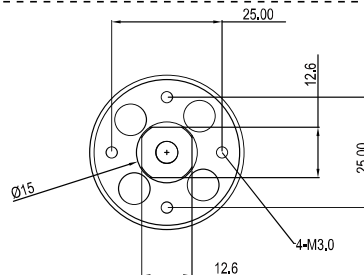
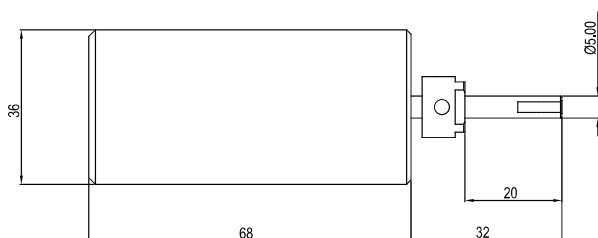
Position	Servo regulation	No.	Pos. / Rev.	Cable length
Nose gear steering servo	9g Digital-Hybrid	1	Positive	400mm
Nose landing gear door	9g Digital-Hybrid	2	Positive	400mm
Rear cabin door left	9g Digital-Hybrid	3	Positive	800mm
Rear cabin door right	9g Digital-Hybrid	4	Reverse	800mm
Aileron(L)	17g Digital-MG	5	Positive	300mm
Aileron(R)	17g Digital-MG	6	Positive	300mm
Canard(L)	9g Digital-MG	7	Positive	200mm
Canard(R)	9g Digital-MG	8	Positive	200mm
Rudder	17g Digital-MG	9	Positive	200mm



Motor Specification

3668-1960

Item No.:MI036681

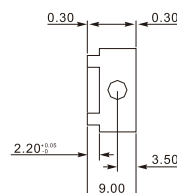
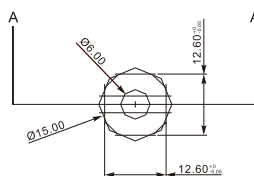
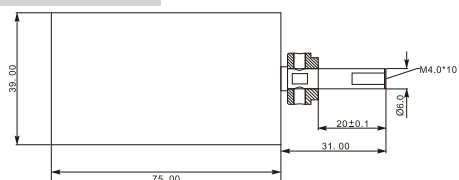


Unit :mm

Item No.	EDF Fans	Battery	Current(A)	Max power (W)	Thrust(g)	Efficiency (g/w)	Motor(KV)	Use ESC (A)	Weight (g)
E72216	90mm 12-Blade	6S	120	2600	3700	1.4	3668-1960	120	454

Item No.:MI040754

4075-1350kv



Unit :mm

Item No.	EDF Fans	Battery	Current(A)	Max power (W)	Thrust(g)	Efficiency (g/w)	Motor(KV)	Use ESC (A)	Weight (g)
E72215	90mm 12-Blade	8S	115	3400	4700	1.39	MI040754 4075-1350KV	120	558

i