



# TWIN 70MM J-65

Overall Length: 1768mm/69.6in Wingspan: 1766mm/69.5in

### -\ Must-read /

### Warnings

Please read through the whole user manual carefully and follow the instructions strictly for product installation and operation. Improper operation may lead to product damage or property loss or even severe personal injury. Xfly-model and its distributors will not assume responsibility if damage or loss is caused by violating the instructions listed.

### Caution

This product is Not a toy! Flying experience is required by users. Beginners should only operate the product under the supervision of professionals.

This product is not intended for use by children under 14 years!

### **Safety Precautions**

This product is radio-controlled and subject to interference from other signal sources which may result in momentary loss of control or even crash. So please always keep a safe distance in all directions around your model in order to avoid unexpected collision or injury.

- NEVER operate your model with low transmitter batteries.
- -Always operate your model in an open area with the sun behind you away from cars, traffic or people.
- Do not operate your model in bad weather such as wet weather, thunderstorm, strong wind or heavy snow.
- —Always follow the instructions and pay attention to the warnings for this product and other associated devices you use (charger, rechargeable battery pack, etc.)
- —Always keep all chemicals, small parts and electronic components out of reach of children.
- —Do not expose the electronic components to moist environment in case of damage.
- —This model kit contains small parts, plastic bags, and materials that can be harmful to children if swallowed.
- —ALWAYS ensure the transmitter is turned ON with the throttle at its lowest setting before connecting model battery.

### Lithium-Polymer (Li-Po) Battery Use

Caution: Always follow the manufacturer's instructions for safe use and disposal of batteries. Improper use of Li-Po batteries may cause a fire, property damage, or severe injury.

- —Do not use the battery that is swollen, or overcharged, or has been damaged. Keep in mind to discharge the battery to storage voltage (3.8-3.85V per cell) if they are not in use for a long time and as soon as possible after use for safe storage. Always store the battery at room temperature in a cool dry area to extend the lifespan of the battery. Do not store the battery in a car or expose it to direct sunlight. For maximum safety Xfly-Model recommends storing Li-Po batteries in a proper battery bunker, or sealed (not airtight) fire resistant container.
- —Only use a Li-Po compatible charger to charge & discharge Li-Po batteries NEVER try to use any other charger in case of personal injury and property damage.
- —Do not discharge the Li-Po to below 3V per cell or irreversible damage can occur to the battery.
- NEVER leave charging battery unattended.
- Do not charge damaged battery-instead dispose of Li-Po batteries by fully discharging then taking to an appropriate disposal agent.

### **Warning for Battery Charging**

As stated previously ONLY use a Li-Po compatible charger to charge the battery. Be sure to read and understand the charger instruction manual carefully before charger use. Make sure battery is on a heat-resistant surface when being charged. It is highly recommended to place the Li-Po battery inside a fire-resistant charging bag readily available at hobby shops or online stores.

# **\ Product Overview** / ⋅

XFly Model is proud to release our first business jet, the J-65 Twin 70mm EDF jet! This jet was developed with all the attention to design and detail that we've come to expect - a scale outline and trim scheme, rivet window frame, full compliment of LED's, removable winglets, scale landing gears and gear doors, removable nacelles, etc. All these scale features make the J-65 jet more like a collection!

The J-65 jet comes fully equipped with all the latest advances in RC aircraft technology such as a 3 axis stabilisation system(exclusive to XFly) with SBUS functionality and fully adjustable gains, removable wings with high quality metal wing connectors, trailing-link main gear and compression strut nose gear. Twin 60A ESC's with 8A BEC deliver silky smooth power via a pair of the now famous Xfly "Galaxy series" 70mm EDF units. This jet has a flying weight of around 4kg (4.4lb) depending on the lipo used (6S 5000-6000 recommended) and is able to deliver a flight time of around 5-8 mins depending on throttle management and lipo used etc. With the newly developed Pulsar stabilisation system installed, J-65 can bring you more stable and enjoyable flights.

As another option, a decal free an all-white version will be offered for customers to select their own custom liveries (stock decal sheet included).

Be ready to get thrilled at this gorgeous business jet!

### **Features**

- Newly developed Pulsar gyro equipped
- Retractable CNC shock-absorbing metal landing gears with scale gear doors
- Scale outline and trim scheme, scale features throughout the airframe
- Retractable CNC shock-absorbing metal landing gears with scale gear doors
- Twin powerful Xfly "Galaxy series" 70mm EDF units and Hobbywing 60A ESCs deliver excellent speed and performance

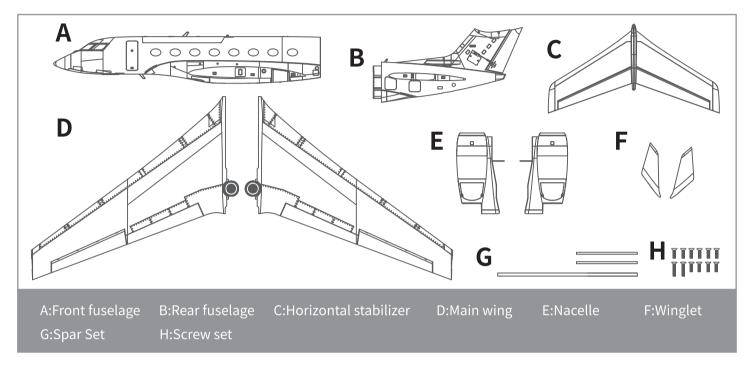
- Factory-installed 11 bright LED landing and navigation lights, plus operational flaps
- Convenient metal connectors used for main wings and horizontal stabilizer
- Latch-type top hatch for quick and easy access to the battery compartment
- Removable winglets and nacelles
- All-white version available allows for custom liveries

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# -ackslash Product Packing List /-

Please check the below parts carefully before assembly. If anything appears missing or damaged, please contact your distributor in the first instance, or send us an email (support@xfly-model.com) and advise the item name or part number of the missing or damaged part(s). (Please refer to the spare parts list on Page 11 of this manual for full parts listing). Please note that different versions can sometimes include slightly different items inside the package.



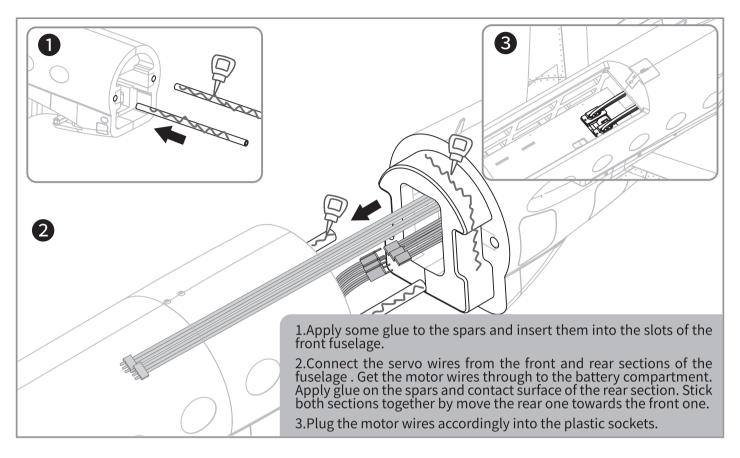
# $-\setminus$ Specifications /-

Material:	Lightweight yet strong EPO, ABS engineering plastics	
Wingspan:	1766mm/69.5in	
Overall Length:	1768mm/69.6in	
Wing Load:	91g/dm²	
Wing Area:	43dm <sup>2</sup>	
Flying Weight:	3900g(5400mAh battery)	
Propeller/EDF:	70mm 12-Blade Fan*2	
Motor:	2860-KV2200*2	
ESC:	60A ESC(8A BEC) *2	
Servos:	13g Digital Metal Gear Servo*5, 9g Digital Metal Gear Servo*3	

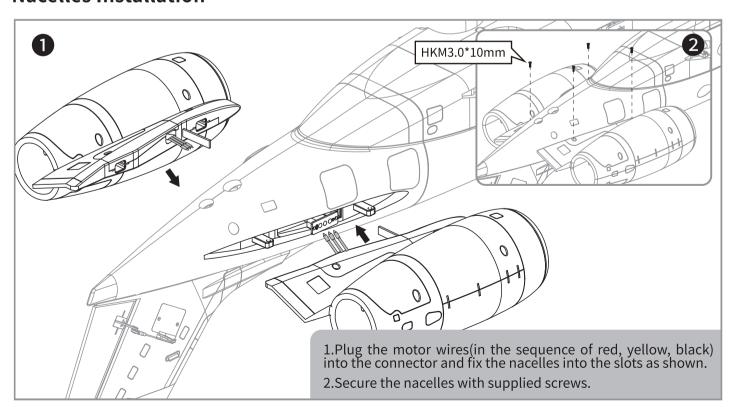
Flying Duration:	5-8 minutes
Landing Gear:	Electric retracts and trailing link suspension struts
LED:	Landing lights*5,navigation lights*6
Gyro:	Pulsar 3-axis Gyro
Channels:	7CH-Throttle, ailerons, flaps, elevator, front gear/rudder, retracts, gyro
Skill Level:	Intermediate
Recommended Battery:	6S 5000-6000mah
Build&Test Time:	~20 minutes

# -ackslash Assembly Instructions / -

# **Fuselage Installation**

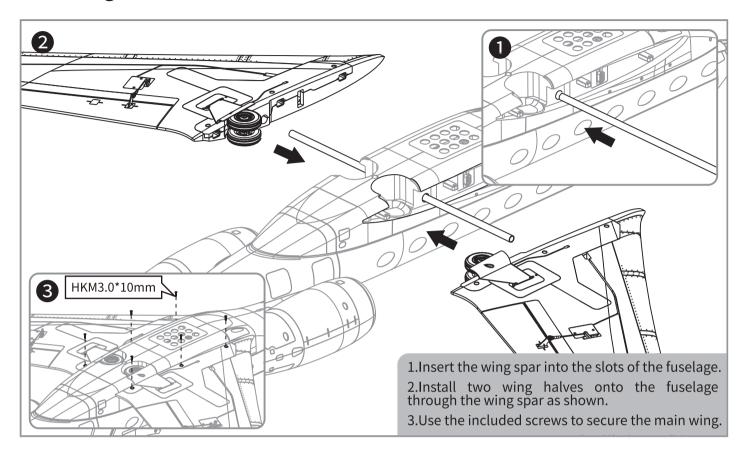


### **Nacelles Installation**

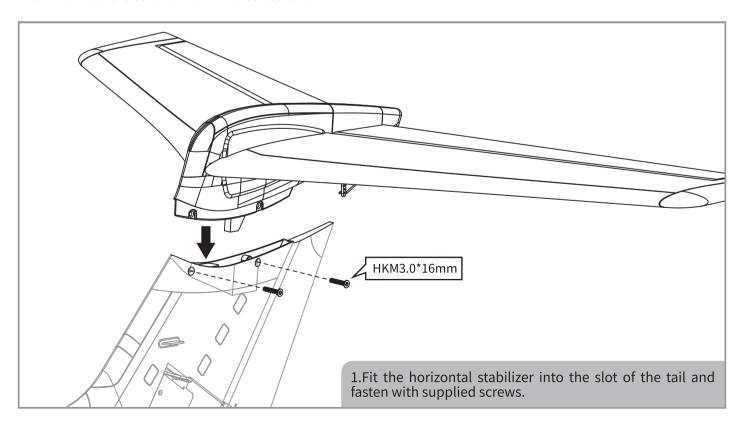


# $-----\setminus$ Assembly Instructions /-

# **Main Wing Installation**



### **Horizontal Stabilizer Installation**



# $-\setminus$ Control Horns Installation / -

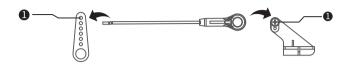
Make sure all servos are in their central position and adjust the linkages to the indicated positions.

The following pictures show the default factory settings for the control horns and linkages recommended for use for initial flight.

### Hole reference for flap servo linkage



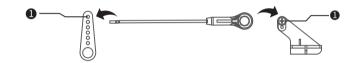
### Hole reference for aileron flap servo linkage



Hole reference for elevator servo linkage

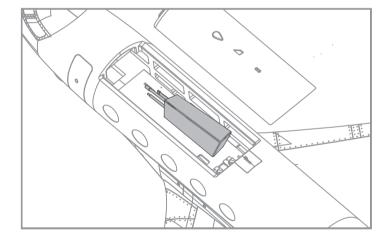


Hole reference for rudder servo linkage



# **│ Battery Installation /** ·

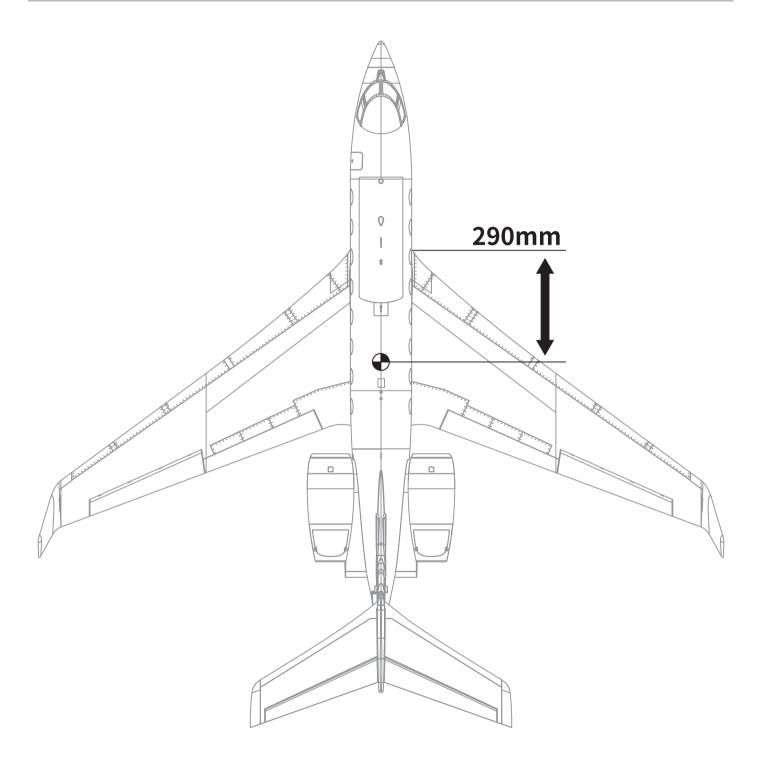
- 1.Before connecting the battery to the plane, power on the transmitter and ensure throttle lever in the lowest position.
- 2. Remove the battery hatch.
- 3.Insert battery into the battery compartment with the power cable towards the rear of the plane and use straps to secure the battery.
- 4.If necessary reposition battery to adjust the center of gravity (CG) by moving the battery forward or backward.



# -\ CG Setting /

Correct center of gravity is very essential for a successful flight. Please refer to the below diagram to adjust the CG of the plane.

—Adjust the CG position by moving the battery forwards or backwards. If necessary add ballast weight to achieve the correct CG position before flight.



# ackslash Control Surface Testing /

Before each flight turn on the transmitter BEFORE connecting a fully charged battery and perform a full pre-flight functional check-pay attention to all control surfaces for correct direction of operation.

Xfly-Model Strongly recommends you also perform a full range test prior to each flight!

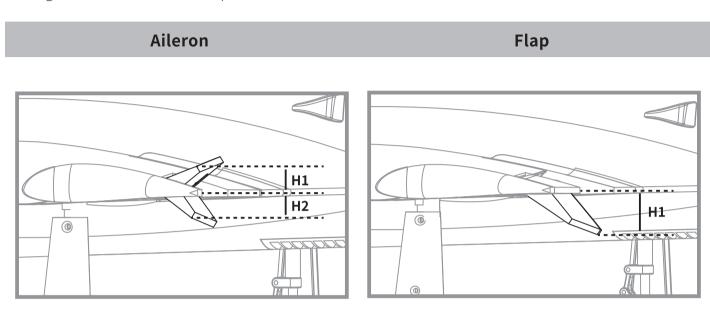
Note: SAFETY FIRST!! Please remove the propeller (where applicable) before carrying out any pre-flight maintenance to the power system to prevent potential injury from unintended propeller operation.

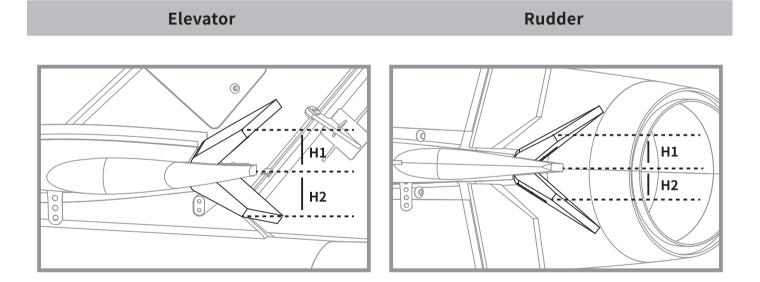
# ALWAYS CHECK CONTROL SURFACE DIRECTION FROM BEHIND THE MODEL LOOKING FORWARD TO ENSURE CORRECT OPERATION

# Aileron control lever moving leftward Aileron control lever moving rightward **Elevator control lever moving downward** Elevator control lever moving upward Rudder control lever moving leftward Rudder control lever moving rightward Flaps deployed

# -ackslash Dual Rate Setting / -

Based on Xfly-Model's testing experience, the following rates are recommended for optimum performance. It is suggested that initial flights are carried out using low rates until you are comfortable with the flight characteristics of the plane.





**Note:** When flaps are released, the aircraft will be heading up, so mixed elevator control is required for good landings. It requires 1mm height lower for high dual-rate flap and 2mm lower for low dual-rate flap.

	Aileron	Elevator	Rudder	Flaps
Low dual rate(H1/H2)	10 m m	10 m m	15 m m	20 m m
High dual rate(H1/H2)	15mm	12mm	20 m m	30 m m

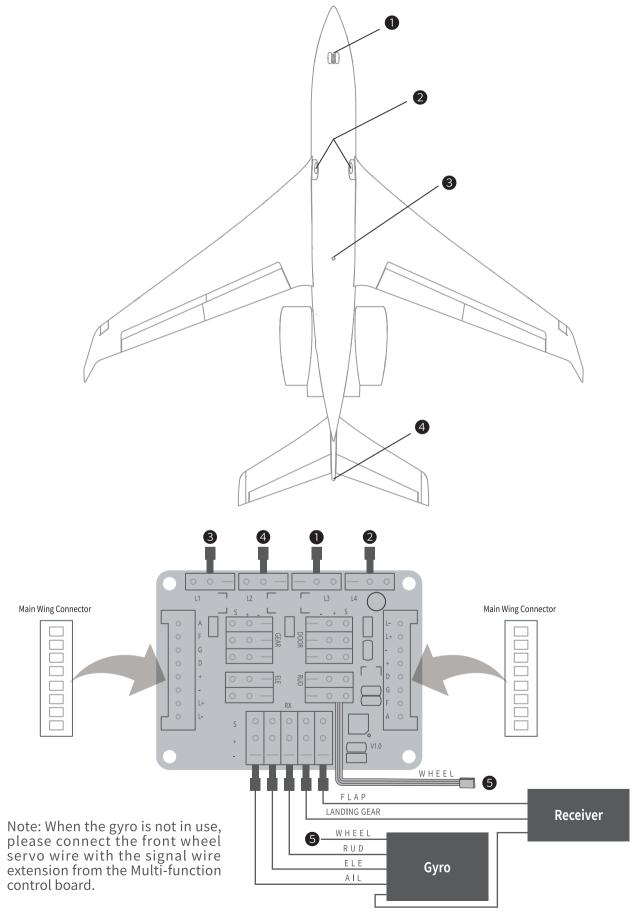
# \_\_\_\_\_\_\ Trouble Shooting /\_\_\_\_\_

Problem	Possible Cause	Solution
Aircraft not responding to the throttle but responding to other controls	-ESC not calibrated -throttle deactivated on radio -motor wire disconnected	-Calibrate ESC according to manual -activate throttle on radio -check motor wires and connect/repair as required
Excessive propeller noise or Excessive vibration	-Propeller/EDF loose or damaged -Propeller/EDF out of balance -Propeller/EDF fan incorrectly installed or mounting loose	-Tighten and/or Replace damaged parts -balance propeller/EDF unit -Remove and install the propeller correctly -ensure mounting tight and parts correctly fitted
Reduced flight times or aircraft underpowered	-Low battery charge -ESC overheating -Defective battery	-Recharge battery -Ensure adequate cooling to ESC -Replace battery with new one
Control surface not moving, or responds slowly to control inputs	-Control surface, control horn, linkage or servo damaged -Wire damaged or connector loose	-Replace or repair damaged parts and adjust controls -Check all wires and ensure connections are secure -Repair/replace damaged wires or connectors
Control surface reversed	Channels reversed on the transmitter	-Check transmitter settings and adjust as required
Motor loosing power in flight	-ESC not calibrated correctly -ESC LVC low voltage cutoff activated -Defective motor, ESC, or battery	-Recalibrate ESC -Check the battery, transmitter, receiver, ESC, motor and replace it if defective -Get the aircraft land immediately and recharge the battery
Slow LED flash on the receiver	Receiver power loss	-Check the connection between ESC and receiver -Check if servo is damaged -Check if the linkages are in place

# \_\_\_\_\_ Spare Parts List /\_\_\_\_\_

XF108-01 XF108-02 XF108-03 XF108-04 XF108-05 XF108-06 XF108-07 XF108-08 XF108-09 XF108-10 XF108-11 XF108-12 XF108-13	Front Fuselage Rear Fuselage Main Wing Set Winglet Horizontal Stabilizer Battery Hatch Nacelle Set Wheel Set Spar Set Pushrod Set Screw Set Control Horn Set Front LG Set with gear door	XF108-19 XF108-20 XF108-21 XF108-22 XF108-23 XF108-24 XF108-25 XF108-26 XF-DF003 XFKV2200-1 XFESC60A XFSER13P-100 XFSER13R-100	Decal Sheet Wing Shield LED Set Front Electronic Retract Main Electronic Retract Main Wing Connectors Horizontal Stabilizer Connectors Multi-function Control Board 70mm Ducted Fan (12-blade) w/o Motor 2860-KV2200 Motor Twin 60A ESC with 8A BEC 13g Metal Gear Servo Positive with 100mm Lead 13g Metal Gear Servo Reverse with 100mm Lead
XF108-12	Control Horn Set	XFSER13P-100	13g Metal Gear Servo Positive with 100mm Lead
XF108-14 XF108-15	Front LG System with gear door Main LG Set with gear door (L)	XFSER13P-600 XFSER9P-400	13g Metal Gear Servo Positive with 600mm Lead 9g Metal Gear Servo Positive with 400mm Lead
XF108-16 XF108-17 XF108-18	Main LG Set with gear door (R) Main LG System with gear door (L) Main LG System with gear door (R)	XFSER9P-550 XFSER9R-550	9g Metal Gear Servo Positive with 550mm Lead 9g Metal Gear Servo Reverse with 550mm Lead

# $-ackslash\mathsf{Multi} ext{-function}$ Control Board Connections/-



### **User Manual of Brushless Speed Controller**

Thanks for purchasing our Electronic Speed Controller (ESC). High power system for RC model is very dangerous, please read this manual carefully. In that we have no control over the correct use, installation, application, or maintenance of our products, no liability shall be assumed nor accepted for any damages, losses or costs resulting from the use of the product. Any claims arising from the operating, failure or malfunctioning etc. will be denied. We assume no liability for personal injury, property damage or consequential damages resulting from our product or our workmanship. As far as is legally permitted, the obligation to compensation is limited to the invoice amount of the affected product.

### **Specifications**

Model	Cont Current	Burst Current	BEC Mode	BEC Output	Battery Cell	Weight	Size
Skywalker-6A	6A	8A	Linear	5V/0.8A	28	5.5g	32*12*4.5
Skywalker-12A	12A	15A	Linear	5V/1A	2-38	9g	38*18*6
Skywalker-12AE	12A	15A	Linear	5V/2A	2-38	10g	38*18*7
Skywalker-15A	15A	20A	Linear	5V/2A	2-3\$	16.5g	48*22.5*6
Skywalker-20A	20A	25A	Linear	5V/2A	2-38	19g	42*25*8
Skywalker-30A	30A	40A	Linear	5V/2A	2-38	37g	68*25*8
Skywalker-40A	40A	55A	Linear	5V/3A	2-38	39g	68*25*8
Skywalker-40A-UBEC	40A	55A	Switch	5V/3A	2-48	43g	65*25*12
Skywalker-50A-UBEC	50A	65A	Switch	5V/7A	3-6S	41g	65*29*10
Skywalker-50A-OPTO	50A	65A	N/A	N/A	3-6S	41g	65*29*10
Skywalker-60A-UBEC	60A	80A	Switch	5V/7A	3-6S	63g	77*35*14
Skywalker-60A-OPTO	60A	80A	N/A	N/A	3-6S	60g	77*35*14
Skywalker-80A-UBEC	80A	100A	Switch	5V/7A	3-6S	82g	86*38*12
Skywalker-80A-OPTO	80A	100A	N/A	N/A	3-6S	79g	86*38*12
Skywalker-100A-UBEC	100A	120A	Switch	5V/7A	3-6S	82g	86*38*12
Skywalker-100A-OPTO	100A	120A	N/A	N/A	3-6S	79g	86*38*12

### Programmable Items (The option written in bold font is the default setting)

- 1. Brake Setting: Enabled / Disabled
- 2. Battery Type: Lipo / NiMH
- 3. Low Voltage Protection Mode(Cut-Off Mode): **Soft Cut-Off (Gradually reduce the output power)** /Cut-Off (Immediately stop the output power)
- 4. Low Voltage Protection Threshold(Cut-Off Threshold): Low / Medium / High
  - 1) For lithium battery, the battery cell number is calculated automatically. Low / medium / high cutoff voltage for each cell is: 2.85V/3.15V/3.3V. For example: For a 3S Lipo, when "Medium" cutoff threshold is set, the cut-off voltage will be: 3.15\*3=9.45V
  - 2) For NiMH battery, low / medium / high cutoff voltages are 0%/50%/65% of the startup voltage (i.e. the initial voltage of battery pack), and 0% means the low voltage cut-off function is disabled. For example: For a 6 cells NiMH battery, fully charged voltage is 1.44\*6=8.64V, when "Medium" cut-off threshold is set, the cut-off voltage will be: 8.64\*50%=4.32V.
- 5. Startup Mode: Normal /Soft /Super-Soft (300ms / 1.5s / 3s)
  - a) Normal mode is suitable for fixed-wing aircraft. Soft or Super-soft modes are suitable for helicopters. The initial acceleration of the Soft and Super-Soft modes are slower, it takes 1.5 second for Soft startup or 3 seconds for Super-Soft startup from initial throttle advance to full throttle. If the throttle is completely closed (throttle stick moved to bottom position) and opened again (throttle stick moved to top position) within 3 seconds after the first startup, the re-startup will be temporarily changed to normal mode to get rid of the chance of a crash caused by slow throttle response. This special design is suitable for aerobatic flight when quick throttle response is needed.
- 6. Timing: **Low** / Medium / High,( 3.75° /15° /26.25° )
  Usually, low timing is suitable for most motors. To get higher speed, High timing value can be chosen.

### **Begin To Use Your New ESC**

**IMPORTANT!** Because different transmitter has different throttle range, please calibrate throttle range before flying.

### Throttle range setting (Throttle range should be reset whenever a new transmitter is being used)

Switch on the transmitter, move throttle stick to the top position

Connect battery pack to the ESC, and wait for about 2 seconds

The "Beep-Beep-" tone should be emitted, means the top point of throttle range has been confirmed

Move throttle stick to the bottom position, several "beep-" tones should be emitted to present the amount of battery cells

A long "Beep-" tone should be emitted, means the lowest point of throttle range has been correctly confirmed

### Normal startup procedure

Move throttle stick to bottom position and then switch on transmitter. Connect battery pack to ESC, special tone like " J 123" means power supply is OK

Several "beep-" tones should be emitted to present the amount of lithium battery cells When self-test is finished, a long "beep----" tone should be emitted

Move throttle stick upwards to go flying

### **Protection Function**

- 1. Start up failure protection: If the motor fails to start within 2 seconds of throttle application, the ESC will cut-off the output power. In this case, the throttle stick **MUST** be moved to the bottom again to restart the motor. (Such a situation happens in the following cases: The connection between ESC and motor is not reliable, the propeller or the motor is blocked, the gearbox is damaged, etc.)
- 2. Over-heat protection: When the temperature of the ESC is over about 110 Celsius degrees, the ESC will reduce the output power.
- 3. Throttle signal loss protection: The ESC will reduce the output power if throttle signal is lost for 1 second, further loss for 2 seconds will cause the output to be cut-off completely.

### **Trouble Shooting**

Trouble	Possible Reason	Action
After power on, motor does not work, no	The connection between battery	Check the power connection.
sound is emitted	pack and ESC is not correct	Replace the connector.
After power on, motor does not work, such an alert tone is emitted: "beep-beep-, beep-beep-, beep-beep-"	Input voltage is abnormal, too high or too low.	Check the voltage of battery pack
(Every "beep-beep-" has a time interval of about 1 second)		
After power on, motor does not work,	Throttle signal is irregular	Check the receiver and transmitter
such an alert tone is emitted:		Check the cable of throttle channel
"beep-, beep-, beep- "(Every "beep-" has		
a time interval of about 2 seconds)		
After power on, motor does not work, such an alert tone is emitted: "beep-, beep-, beep-" (Every "beep-" has a time interval of about 0.25 second)	The throttle stick is not in the bottom (lowest) position	Move the throttle stick to bottom position
After power on, motor does not work, a	Direction of the throttle channel is	Set the direction of throttle channel correctly
special tone " • 567i2" is emitted after 2	reversed, so the ESC has entered	
beep tone (beep-beep-)	the program mode	
The motor runs in the opposite direction	The connection between ESC and the motor need to be changed.	Swap any two wire connections between ESC and motor

### Program the ESC with your transmitter (4 Steps)

**Note:** Please make sure the throttle curve is set to 0 when the throttle stick is at bottom position and 100% for the top position.

- 1. Enter program mode
- 2. Select programmable items
- 3. Set item's value (Programmable value)
- 4. Exit program mode

### 1. Enter program mode

- Switch on transmitter, move throttle stick to top position, connect the battery pack to ESC
- Wait for 2 seconds, the motor should emit special tone like "beep-beep-"
- 3) Wait for another 5 seconds, special tone like " ♣ 567i2" should be emitted, which means program mode is entered

### 2. Select programmable items

"beep----beep-beep-"

After entering program mode, you will hear 8 tones in a loop with the following sequence. If you move the throttle stick to bottom within 3 seconds after one kind of tones, this item will be selected.

1.	"beep"	brake	(1 short tone)
2.	"beep-beep-"	battery type	(2 short tone)
3.	"beep-beep-"	cutoff mode	(3 short tone)
4.	"beep-beep-beep-"	cutoff threshold	(4 short tone)
5.	"beep"	startup mode	(1 long tone)
6.	"beepbeep-"	timing	(1 long 1 short)

8. "beep-----" exit (2 long tone)
Note: 1 long "beep----" = 5 short "beep-"



7.





### 3. Set item value (Programmable value)

You will hear several tones in loop. Set the value matching to a tone by moving throttle stick to top when you hear the tone, then a special tone " 1515" emits, means the value is set and saved. (Keeping the throttle stick at top, you will go back to Step 2 and you can select other items; or moving the stick to bottom within 2 seconds will exit program mode directly)

Tones Items	"beep-" 1 short tone	"beep-beep-" 2 short tones	"beep-beep-beep" 3 short tones
Brake	Off	On	
Battery type	Lipo	NiMH	
Cutoff mode	Soft-Cut	Cut-Off	
Cutoff threshold	Low	Medium	High
Start mode	Normal	Soft	Super soft
Timing	Low	Medium	High

### 4. Exit program mode

set all to default (1 long 2 short)

There are 2 ways to exit program mode:

- In step 3, after special tone " ♪ i5i5", please move throttle stick to the bottom position within 2 seconds.
- 2. In step 2, after tone "beep----" (th at is: The item #8), move throttle stick to bottom within 3 seconds.

# ∖使 用 必 读/-

### 警告

组装、调整及飞行前请务必认真阅读产品说明书以熟知产品的特性。请严格按照说明书提示进行飞机的组装、调整及飞行。如操作不当会造成产品本身损坏及其它财产损失,甚至造成严重的人身伤害。迅飞模型及其销售商,对于违反说明书的要求操作而造成的损失、将不负任何法律责任!

### 声明

模型不是玩具,具有一定的危险性,操作者需要具备一定的飞行经验,初学者请在专业人士指导下操作。 飞机的使用年龄必须是14岁以上的儿童或者成人!

### 操作使用安全须知

本产品飞行由无线电遥控器控制,在飞行过程中可能会受到外界强信号源干扰而导致失控,甚至坠机。因此,在飞行过程中务必始终与飞机保持一定的安全距离,避免意外碰撞、受伤。

- 一请勿在发射器电池低电量的情况下操纵模型飞机。
- 一请勿在在公共场合、高压线密集区、高速公路附近、机场附近或者其它法律法规明确禁止飞行的场合飞行。
- 一请勿在雷雨、大风、大雪或者其它恶劣气象环境下飞行。
- 一请严格遵照产品指导说明及安全警告操作本产品及其相关配置(例如充电器、电池等)。
- 一请勿将相关化工类产品、零部件、电子部件等置于儿童可触及的范围。
- 一请勿将电子件暴漏于潮湿的环境中,以免造成损坏。
- 一请勿将本产品任意处置于口中,以免造成人身伤亡。
- 一在任何情况下,都必须保证油门杆处于起始位、发射机处于打开状态时,才能连接模型飞机内部的动力电池。

### 钾聚合物电池使用安全须知

使用锂聚合物电池时,须严格遵守制造商说明、要求并了解相关风险,使用不当会导致锂聚合物电池起火,从而造成严重的财产损失甚至人身伤害。

- 一禁止使用变形、胀气的锂聚合物电池。
- 一禁止使用过充、放电的锂聚合物电池,避免发生危险。长时间不使用须将锂聚合物电池放电至存储电压(3.8~3.85V/节)。锂聚合物电池须储存在室内干燥区域(4.5~48.5℃),禁止将锂聚合物电池置于阳光下暴晒或车内,高温可能会导致锂聚合物电池起火,造成财产损失和人身伤害。
- 一请使用专用充电器对锂聚合物电池进行充放电,禁止使用其它,如:镍氢电池充电器。充放电时,禁止将锂电池放置于高温物体表面,建议使用锂电池防爆袋。不正确的充放电操作会对锂聚合物电池造成损伤,甚至会引起火灾,造成财产损失和人身伤害。
- 一禁止将锂聚合物电池单节电压放至低于 3V,禁止给已损坏的锂聚合物电池充电。
- 一锂聚合物电池充放电须在有人看管的情况下进行,避免发生意外造成不必要的损失。
- 一损坏或者报废处理的模型飞机电池,应妥善回收处理,不准随意抛弃,避免自燃而引发火灾。

### 飞机电池充电须知:

请确保使用合格的电池充电器给锂电池充电。在使用充电器前,请认真阅读充电器说明书。充电过程中,请确保把电池置于耐热的表面。建议把锂电池置于防火充电袋内充电,防火充电袋可在相关模型实体店或网上买到。

# \产品简介/

双70mm J-65是XFly迅飞推出的首款大型公务机,出厂标配自主研发的脉冲星3轴飞控。

XFly迅飞对这款飞机的用心遍布于每一个精致的细节,例如经典而优雅大气的涂装、像真的外形、用于着陆灯和航灯的11颗高亮度LED灯珠、可电动收放的CNC金属减震起落架、像真的舱门盖板、主翼和平尾的便捷拆装、美观的前挡风玻璃和铆钉边框装饰,以及可拆卸的发动机舱和滑槽式的翼尖小翼。

高性能的XFly迅飞双70mm涵道系统,搭配高质量的双60A电调,给飞机提供高效的性能和充沛的动力。宽敞的电池仓可容纳6S 5000-6000mAh的大容量锂电池,飞行时间长达5-8分钟。飞机出厂标配最新推出的脉冲星3轴飞控,能为您的飞行保驾护航。

XFly迅飞还会推出双70mm J-65的全白喷漆版本(另配有贴纸),满足玩家DIY飞机涂装的乐趣。

### 特征

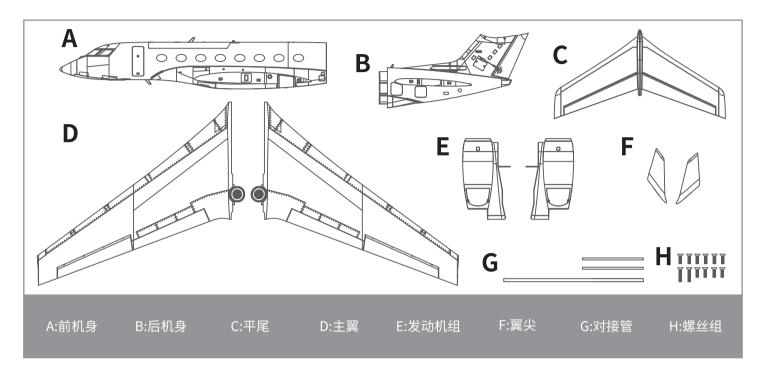
- 经典而优雅大气的涂装、像真细节设计
- 可电动收放的 CNC 金属减震起落架和像真的舱门盖板
- 银河 X 系列 70mm12 叶涵道,2860-KV2200 6S 内转 无刷电机,搭配好盈 60A 电调
- 宽敞的电池仓可容纳 5000-6000mAh 大范围的锂电池,飞行时间长达 5-8 分钟
- 11 颗高亮度 LED 灯珠用干着陆灯和航灯
- 平尾和机翼采用安全快捷的金属排插
- 便捷的卡扣式座舱,可拆卸的翼尖小翼和发动机舱
- 全白喷漆版本供玩家选择和设计涂装

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# -\产 品 包 装 清 单/-

在组装产品之前,请仔细检查以下配件,如有缺失或者损坏,请及时联系商家或者邮件至厂家(support@x-fly-model.com),告知缺失或损坏的配件名称及编码(请在本说明书尾页查看相应的配件编码)。请注意,不同配置,包装盒内部物品不同。



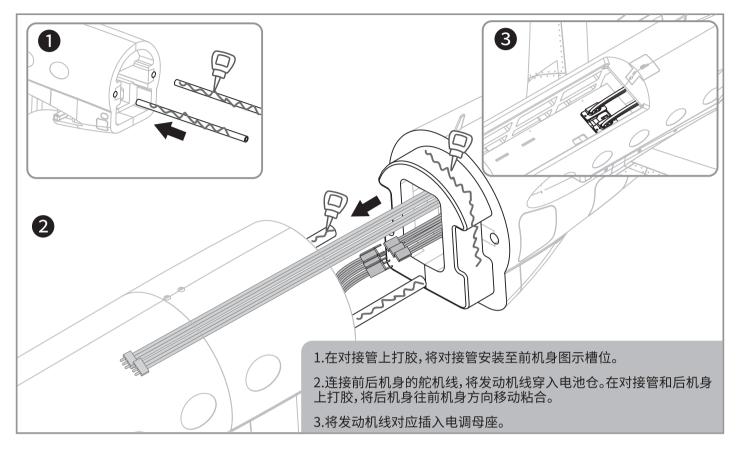
# -\产品参数/

材料:	高密度 EPO, ABS 工程塑料
翼展:	1766mm
机身长度:	1768mm
翼载荷:	91g/dm²
机翼面积:	43dm <sup>2</sup>
起飞重量:	3900g(5400mAh)
桨叶类型:	70mm 12 叶涵道 *2
电机:	2860-KV2200*2
电调:	60A ESC(8A BEC) *2
舵机:	13g 数码金属舵机 *5, 9g 数码金属舵机 *3

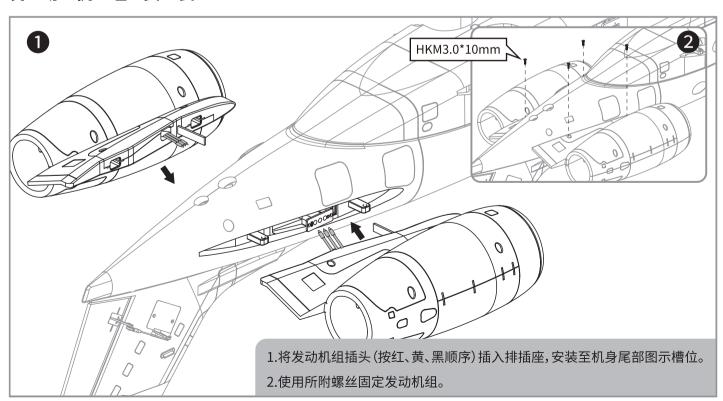
持续飞行时间:	5-8 分钟
起落架系统:	CNC 五金跪式 电动收放起落架
LED 灯组:	着陆灯 *5,航灯 *6
飞控:	脉冲星 3 轴飞控
通道介绍:	7CH- 油门,副翼,襟翼,前轮 / 方向舵,平尾 / 升降舵,收放, 飞控模式
模型难度:	中级经验水平
推荐锂电池:	22.2V 6S 5000-6000mah
组装调试时长:	~20 分钟

# ---\产 品 组 装 说 明/-

# 机身安装

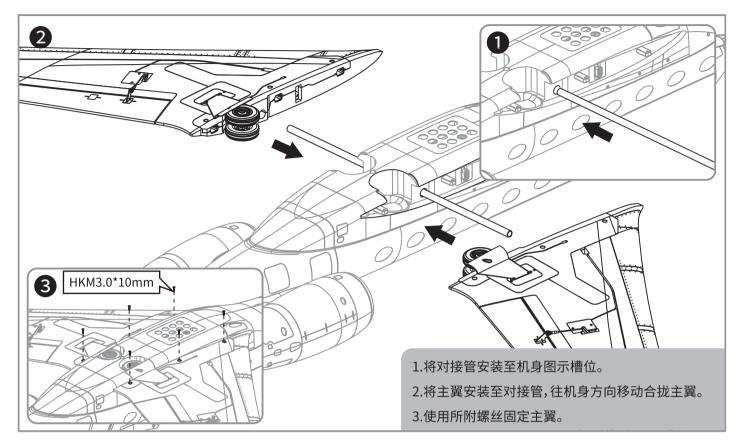


# 发 动 机 组 安 装

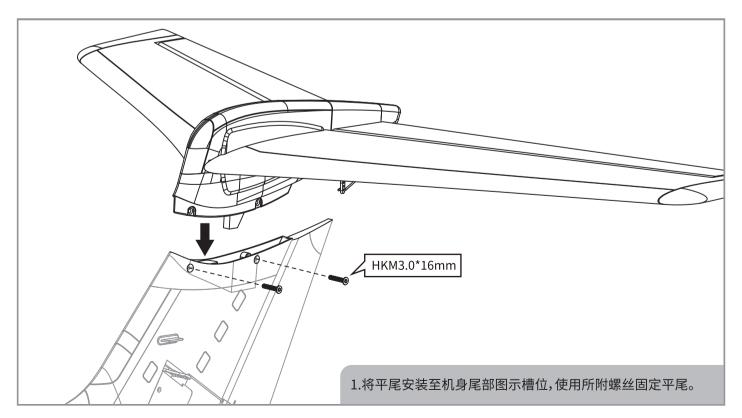


# ──\产 品 组 装 说 明/-

# 主翼安装



# 平尾安装



# -\舵 角 摇 臂 安 装/-

保证舵机为回中状态,将连接杆调整到合适位置。

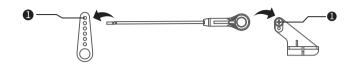
图示是舵角和舵面摇臂的出厂设置。

首飞建议用出厂设置的舵角飞行。

### 襟翼舵机钢丝安装孔位参考



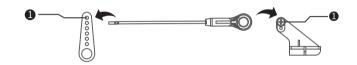
### 副翼舵机钢丝安装孔位参考



### 平尾舵机钢丝安装孔位参考

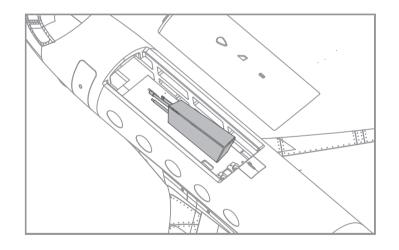


### 垂尾舵机钢丝安装孔位参考



# -\电 池 安 装/-

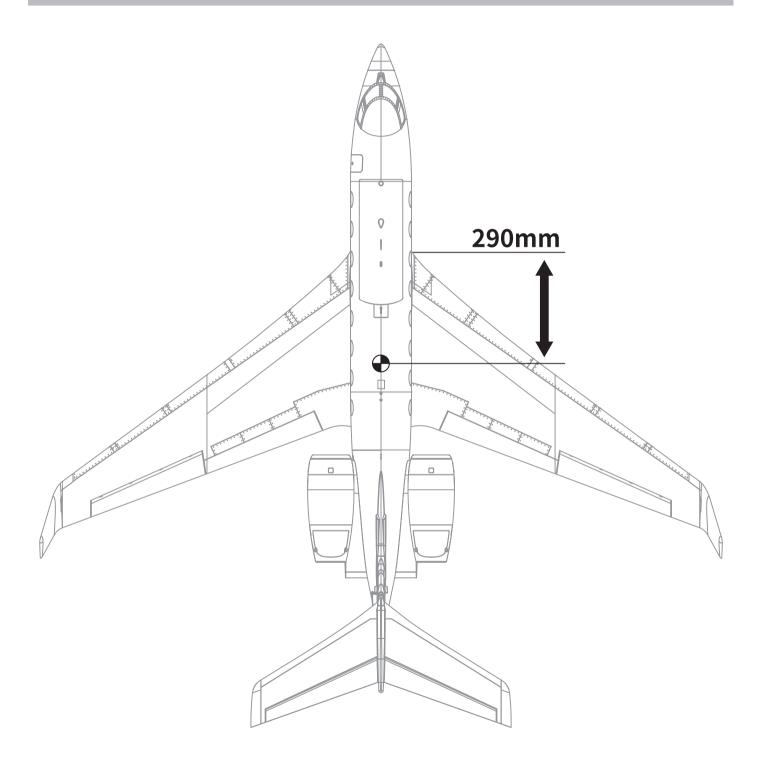
- 1.将电池与接收机连接前,首先请打开发射机电源,确认油门杆处于低位。
- 2.移开电池仓罩,取下电池板上的魔术带。
- 3.将电池置于电池仓内,有电源的线的一端朝向飞机尾部,使用魔术带固定电池。
- 4.由于不同的电池厂家生产的电池重量有差异,需要调整电池的位置来平衡飞机的重心位置。



# -\重 心 调 整/-

### 正确的重心,直接关系到飞行的成功与否,请参考下面的重心标示图来调整飞机的重心。

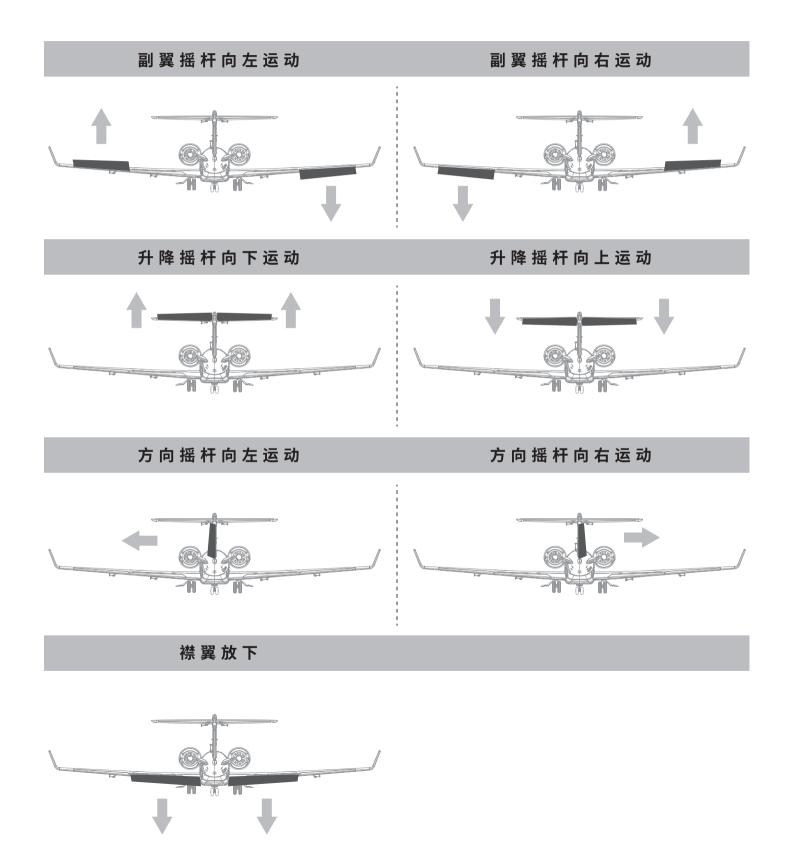
一您可以将电池向前、后移动来调整飞机的重心;如果通过移动电池无法调整到正确的重心位置,您还可以适当的使用一些其他材料来配重,使得飞机的重心处于正确的位置。



# -\舵 面 测 试/-

当您按照前面的步骤组装好飞机、 调整好舵角摇臂后,在飞机起飞前,我们需要一块满电的电池连接到电调。用 遥控器测试每个舵面的工作情况,检查是否正常!

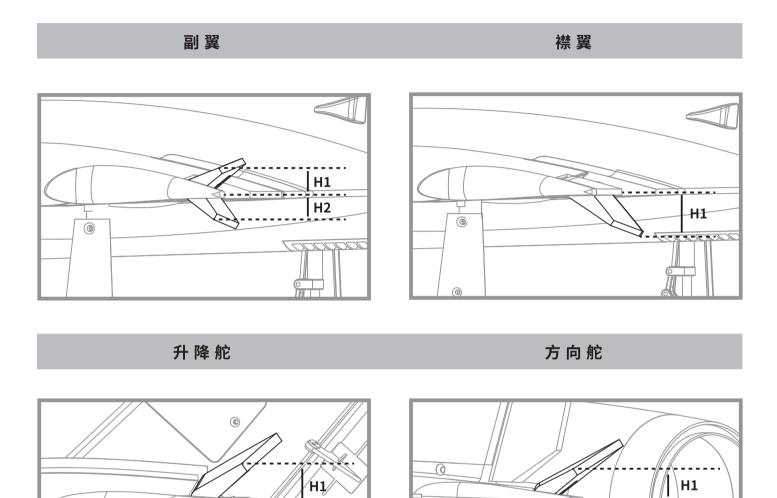
注意:为保证安全,在测试舵面前,请务必拆下螺旋桨,以免电机意外启动发生事故。



H2

# — \推 荐 舵 面 行 程/-

根据我们的测试经验,我们认为按以下参数来设置大小舵量将更有助于飞行。小舵量飞机的操纵会显笨拙些,大舵量飞机的操纵会灵敏些,我们建议初次飞行使用大舵量起飞,然后视操纵习惯选用大舵量或小舵量飞行。



**飞行注意事项:**襟翼下放飞机有抬头现象,需要混控升降舵才能很好的降落,小舵量襟翼需要1mm降舵,大舵量襟翼需要2mm降舵。

**H2** 

0

	副翼	升降舵	方向舵	襟翼下放
小舵量(H1/H2)	10 m m	10 m m	15 m m	20 m m
大舵量(H1/H2)	15 m m	12 m m	20 m m	30 m m

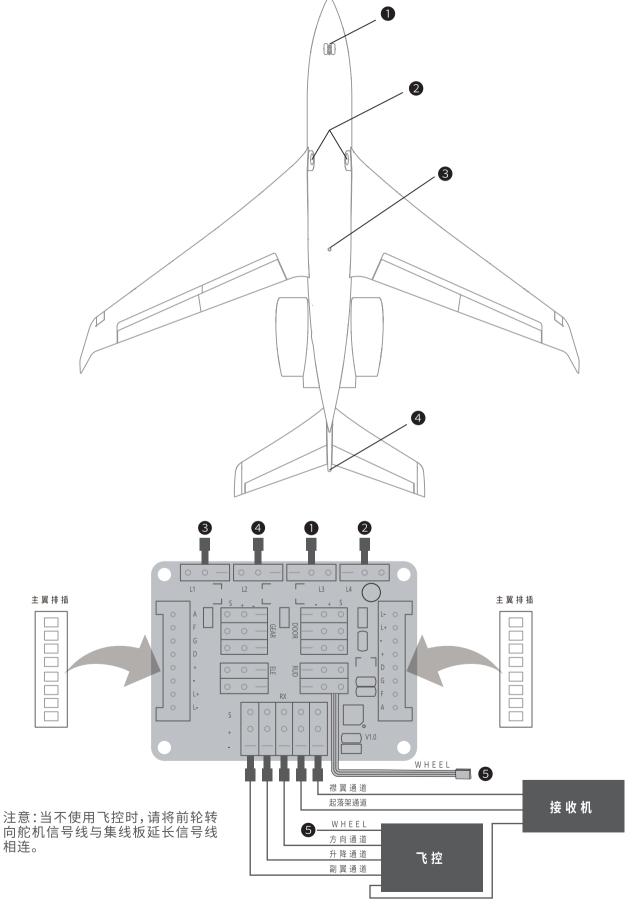
# ─────────── \ 故 障 检 修 / ───────

问 题	问题原因	解决方式
油门推杆无响应,但舵机有响应		
案的噪音过大或者震动 过大	——桨罩、桨、电机、电机架坏了 ——桨或者桨罩的小部件松动了 ——桨装反了	——更换损坏的配件 ——把桨、桨夹和桨罩的小部件拧紧 ——反过来重新装桨
飞行时间变短,飞机无力	——电池电量低 ——桨装反了 ——电池坏了	——重新给电池充电 ——依照电池说明书更换新的电池
飞舵面不动,或者动作响 应较慢	——舵面、舵角、连接杆、舵机坏了 ——连接线坏了或者接头松了	——更换或者维修坏了的配件 ——检查所有连接线,确保所有接头无松动现象
舵面反向	——遥控器发射机通道反向	——检查通道控制 (舵面) 方向,调试飞机舵面和遥控器的舵面控制杆
世机无力 ——电机或电池坏了 一—电调用了不合适的低压保护 装置		——检查电池、发射机、接收机、电调、电机是否有损坏(如有,请及时更换)——立刻操控飞机降落,重新给电池充电
接收器的 LED 灯慢闪	——接收器低电量	——检查电调和接收器之间的连接 ——检查舵机是否受损 ——检查连接杆是否安装到位

# ───── \ 配 件 列 表 / ────

XF108-01前机身XF108-19贴纸XF108-02后机身XF108-20座舱风挡XF108-03主翼XF108-21LED灯组XF108-04翼尖小翼XF108-22前电子收放XF108-05平尾XF108-23主电子收放XF108-06电池舱盖XF108-24机身-主翼排插(2对)XF108-07发动机组XF108-25垂尾-平尾排插XF108-08轮胎组XF108-26集线板XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(400mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架系统(左)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)XF108-18主起落架系统(右)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)				
XF108-03主翼XF108-21LED灯组XF108-04翼尖小翼XF108-22前电子收放XF108-05平尾XF108-23主电子收放XF108-06电池舱盖XF108-24机身-主翼排插(2对)XF108-07发动机组XF108-25垂尾-平尾排插XF108-08轮胎组XF108-26集线板XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-01	前机身	XF108-19	贴纸
XF108-04翼尖小翼XF108-22前电子收放XF108-05平尾XF108-23主电子收放XF108-06电池舱盖XF108-24机身-主翼排插(2对)XF108-07发动机组XF108-25垂尾-平尾排插XF108-08轮胎组XF108-26集线板XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A (外置BEC) 电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-02	后机身	XF108-20	座舱风挡
XF108-05平尾XF108-23主电子收放XF108-06电池舱盖XF108-24机身-主翼排插(2对)XF108-07发动机组XF108-25垂尾-平尾排插XF108-08轮胎组XF108-26集线板XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-03	主翼	XF108-21	LED灯组
XF108-06电池舱盖XF108-24机身-主翼排插(2对)XF108-07发动机组XF108-25垂尾-平尾排插XF108-08轮胎组XF108-26集线板XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-04	翼尖小翼	XF108-22	前电子收放
XF108-07发动机组XF108-25垂尾-平尾排插XF108-08轮胎组XF108-26集线板XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-05	平尾	XF108-23	主电子收放
XF108-08轮胎组XF108-26集线板XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-06	电池舱盖	XF108-24	机身-主翼排插(2对)
XF108-09对接管XF-DF00370MM 空涵道12叶XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-07	发动机组	XF108-25	垂尾-平尾排插
XF108-10连接杆XFKV2200-12860-KV2200电机XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-08	轮胎组	XF108-26	集线板
XF108-11螺丝组XFESC60A2*60A(外置BEC)电调XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-09	对接管	XF-DF003	70MM 空涵道12叶
XF108-12舵面摇臂组XFSER13P-10013g金属数码正向舵机(100mm线长)XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-10	连接杆	XFKV2200-1	2860-KV2200电机
XF108-13前起落架组 带盖板XFSER13R-10013g金属数码反向舵机(100mm线长)XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-11	螺丝组	XFESC60A	2*60A(外置BEC)电调
XF108-14前起落架系统 带盖板XFSER13P-60013g金属数码正向舵机(600mm线长)XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-12	舵面摇臂组	XFSER13P-100	13g金属数码正向舵机(100mm线长)
XF108-15主起落架组(左)带盖板XFSER9P-4009g金属数码正向舵机(400mm线长)XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-13	前起落架组 带盖板	XFSER13R-100	13g金属数码反向舵机(100mm线长)
XF108-16主起落架组(右)带盖板XFSER9P-5509g金属数码正向舵机(550mm线长)XF108-17主起落架系统(左)带盖板XFSER9R-5509g金属数码反向舵机(550mm线长)	XF108-14	前起落架系统 带盖板	XFSER13P-600	13g金属数码正向舵机(600mm线长)
XF108-17 主起落架系统(左)带盖板 XFSER9R-550 9g金属数码反向舵机(550mm线长)	XF108-15	主起落架组(左)带盖板	XFSER9P-400	9g金属数码正向舵机(400mm线长)
	XF108-16	主起落架组(右)带盖板	XFSER9P-550	9g金属数码正向舵机(550mm线长)
XF108-18 主起落架系统(右)带盖板	XF108-17	主起落架系统(左)带盖板	XFSER9R-550	9g金属数码反向舵机(550mm线长)
	XF108-18	主起落架系统(右)带盖板		

# -\集线板连接示意图/-



### 空模无刷马达电子调速器 (ESC) 说明书

感谢您购买本产品!无刷动力系统功率强大,错误的使用可能造成人身伤害和设备损坏。为此我们强烈建议您在使用设备前仔细阅读本说明书,并严格遵守规定的操作程序。我们不承担因使用本产品或擅自对产品进行改造所引起的任何责任,包括但不限于对附带损失或间接损失的赔偿责任。

### 产品规格

型号	持续电流	瞬间电流	BEC类型	BEC输出	电池节数	重量	体积
Skywalker-6A	6A	8A	线性稳压	5V/0.8A	2节	5.5g	32*12*4.5
Skywalker-12A	12A	15A	线性稳压	5V/1A	2-3节	9g	38*18*6
Skywalker-12AE	12A	15A	线性稳压	5V/2A	2-3节	10g	38*18*7
Skywalker-15A	15A	20A	线性稳压	5V/2A	2-3节	16.5g	48*22.5*6
Skywalker-20A	20A	25A	线性稳压	5V/2A	2-3节	19g	42*25*8
Skywalker-30A	30A	40A	线性稳压	5V/2A	2-3节	37g	68*25*8
Skywalker-40A	40A	55A	线性稳压	5V/3A	2-3节	39g	68*25*8
Skywalker-40A-UBEC	40A	55A	开关稳压	5V/3A	2-4节	43g	65*25*12
Skywalker-50A-UBEC	50A	65A	开关稳压	5V/7A	3-6节	41g	65*29*10
Skywalker-50A-OPTO	50A	65A	无	无	3-6节	41g	65*29*10
Skywalker-60A-UBEC	60A	80A	开关稳压	5V/7A	3-6节	63g	77*35*14
Skywalker-60A-OPTO	60A	80A	无	无	3-6节	60g	77*35*14
Skywalker-80A-UBEC	80A	100A	开关稳压	5V/7A	3-6节	82g	86*38*12
Skywalker-80A-OPTO	80A	100A	无	无	3-6节	79g	86*38*12
Skywalker-100A-UBEC	100A	120A	开关稳压	5V/7A	3-6节	82g	86*38*12
Skywalker-100A-OPTO	100A	120A	无	无	3-6节	79g	86*38*12

### 产品功能简要说明(黑体字为出厂默认值)

- 1. 刹车设定: **无刹车**/有刹车。
- 2. 电池类型: **Lipo (锂电池)** / NiMH(镍氢)。
- 3. 电池低压保护模式:**逐渐降低功率**/立即关闭输出。
  - 注:低压保护时,将油门摇杆拉到最小油门的位置后即可重新启动马达,但因为此时仍处于低压状况,所以功率输出较小。
- 4. 低压保护阈值:低/中/高。
  - 1) 当电池类型设定为 Lipo 电池时,电调自动判断锂电节数,低/中/高情况下每节电池的截止电压分别为: 2.85V/3.15V/3.3V。 例如使用 3 节锂电,设定为中截止电压,则低压保护阈值为:3. 15\*3=9. 45V。
  - 2) 当电池类型设定为镍氢电池时,低/中/高情况下截止电压为开机时输入电压的0%/50%/65%。 0%意味着不进行低压保护。 例如:使用6节镍氢电池,充满时电压为1.44\*6=8.64V,当设定为中截止电压时,则截止电压阈值为:8.64\*50%=4.3V。
- 5. 启动模式**:普通**/柔和/超柔和启动,马达转速从静止到最高速度的时间分别为 300ms/1.5s/3s。 普通启动适用于固定翼,柔和启动/超柔和启动适用于直升机。柔和启动和超柔和启动的初始转速都比较低,即便瞬时将油门摇杆推到 最大位置,马达从静止到全速也分别需要 1.5 秒和 3 秒。
  - (注: 启动过程结束后后若关闭油门,3秒内再次启动,则均自动切换为普通模式,以免在特技飞行时因反应过慢而导致摔机)。
- 6. 进角:低/中/高,分别为 3.75度/15度/26.25度。
  - 一般情况下,低进角可以适应较多的马达。但是因为马达结构差异很大,请试用各个进角以获得满意的驱动效果。为提高转速,可以将 进角设为高进角。改变进角后,建议先在地面进行测试,然后再飞行。

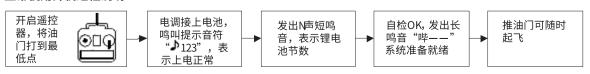
### 首次使用您的无刷电子调速器

特别强调! 为了让电调适应您的遥控器油门行程,在首次使用本电调或更换其他遥控器使用时,均应重新设定油门行程。

### 油门行程设定说明:



### 正常使用开机过程说明:



### 电调保护功能说明

- 1. 启动保护: 当推油门启动后,如在两秒内未能正常启动马达,电调将会关闭马达,油门需再次置于最低点后,才可以重新启动。(出现 这种情况的原因可能有:电调和马达连线接触不良或有个别输出线断开、螺旋桨被其他物体阻挡、减速齿卡死等)
- 2. 温度保护: 当电调工作温度超过 110 摄氏度时,电调会降低输出功率进行自我保护,但不会将输出功率全部关闭,最多只降到全功率的 40%,以保证马达仍有动力,避免摔机。温度下降后,电调会逐渐恢复最大动力。
- 3. 油门信号丢失保护:当检测到油门遥控信号持续丢失1秒后,电调开始降低输出功率,如果信号始终无法恢复,则一直降到零输出(降功率过程为2秒)。如果在降功率的过程中油门遥控信号重新恢复,则立即恢复油门控制。优点:在油门信号瞬间丢失的情况下(小于1秒),电调并不会立即切断动力输出;如果遥控信号确实长时间丢失,则进行保护,但也不是立即关闭输出,而是有一个逐步降低输出功率的过程,给玩家留有一定的时间救机,兼顾安全性和实用性。
- 4. 过负荷保护: 当负载突然变得很大时, 电调会切断动力, 或自动重启。出现负载急剧增大的原因通常是马达堵转。

### 故障处理

故障现象	可能原因	解决方法
上电后电机无法启动,无任何声音	电源接头接触不良	重新插好接头或更换接头
上电后电机无法启动, 发出"哔-哔-、哔-哔-、哔-哔-、哔- 哔-"警示音(每两声之间的间隔时间为 1秒)	电池组电压不正常	检查电池组电压
上电后电机无法启动, 发出"哔-、哔-、哔-"警示音(每声之间的间隔时间为 2秒)	接收机油门通道无油门信号输出	检查发射机和接收机的配合是否正常, 油门控制通道接线是否插紧
上电后电机无法启动, 发出"哔、哔、哔、哔、哔" 急促单音	油门未归零或油门行程设置过小	将油门摇杆置于最低位置; 重新设置油门行程
上电后电机无法启动, 发出"哔-哔-"提示音,然 后发出"567 <sup>i2</sup> "特殊提示音	油门通道"正/反"向错误	参考遥控器说明书,调整油门通道的 "正/反"向设置
电机反转	电调输出线和电机线连接的线序错误	将三根输出线中的任意两根对调

### 使用遥控器编程设定说明

使用遥控器油门摇杆设定参数分为四个步骤:

- 一. 进入编程
- 二. 选择设定项
- 三. 选择设定项下的参数值
- 四.退出

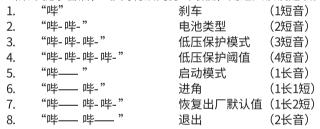
注意: 务必检查遥控器中油门曲线的设置,确保摇杆最低点位置对应的油门输出值为 0,最高点位置对应输出值为 100%

### 一、进入编程模式:

- 1) 开启遥控器,将油门打到最高,电调接上电池
- 2) 等待2秒,马达鸣叫"哔-哔-"提示音
- 3) 再等待5秒,马达鸣叫"56712"特殊提示音, 表示已经进入编程模式。

### 二、选择设定项:

进入编程设定后,会听到8种鸣叫音,按如下顺序循环鸣叫,在鸣叫某个提示音后,3秒内将油门打到最低,则进入该设定项。



注:一长音"哔——"相当于5声短音"哔-",所以在"选择设定项"中,一长一短的"哔——哔-"表示第6选项,以此类推。





马达会循环鸣叫,在鸣叫某个提示音后将油门摇杆打到最高点,则选择该提示音所对应的设定值,接着鸣叫特殊提示音"isis",表示该参数值已被保存。(此时如果不想再设定其它选项,则在2秒内将油门摇杆打到最低,即可快速退出编程设定模式;如果还要设定其它选项,则继续等待,退回第二步骤,再选择其它设定项)

提示音	提示音 "哔-"		"哔 哔 哔 "
定项	1声	2声	3声
刹车	刹车       无刹车		
电池类型	锂电池	镍氢电池	
低压保护方式	逐渐降低功率	立即关闭动力	
低压保护阈值	低	中	高
启动模式	普通启动	柔和启动	超柔和启动
进角 低		中	高

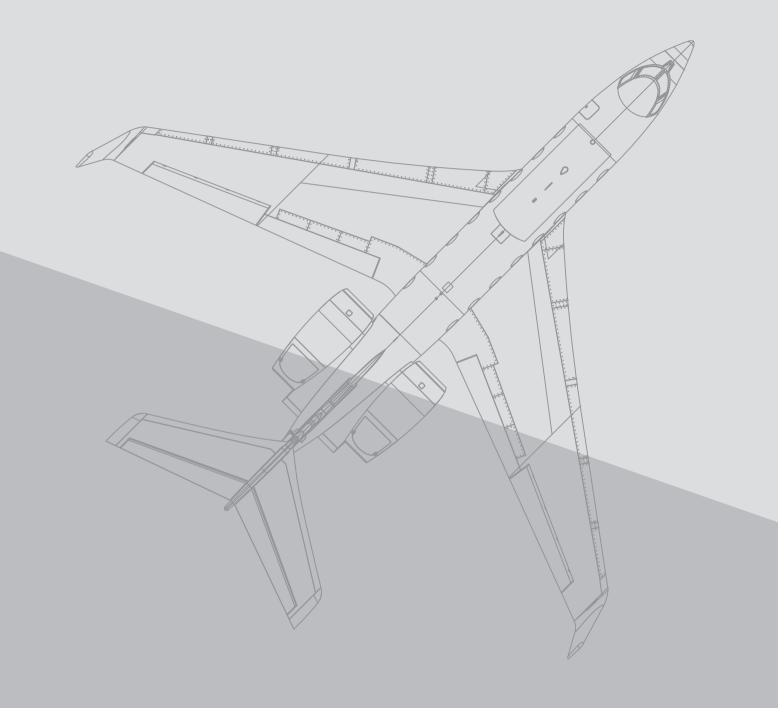
### 四、退出设定:

有如下两种方式退出设定。

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- 在第三步骤,选择设定 值时,鸣叫特殊提示音 "i5i5"后,2秒内将 油门摇杆打到最低点,则退出设定。
- 2. 在第二步骤,选择设定项时,当电机鸣叫出"哔——哔——"(即第8个设定项)两长音后,3秒内将油门打到最低点,则退出设定。







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