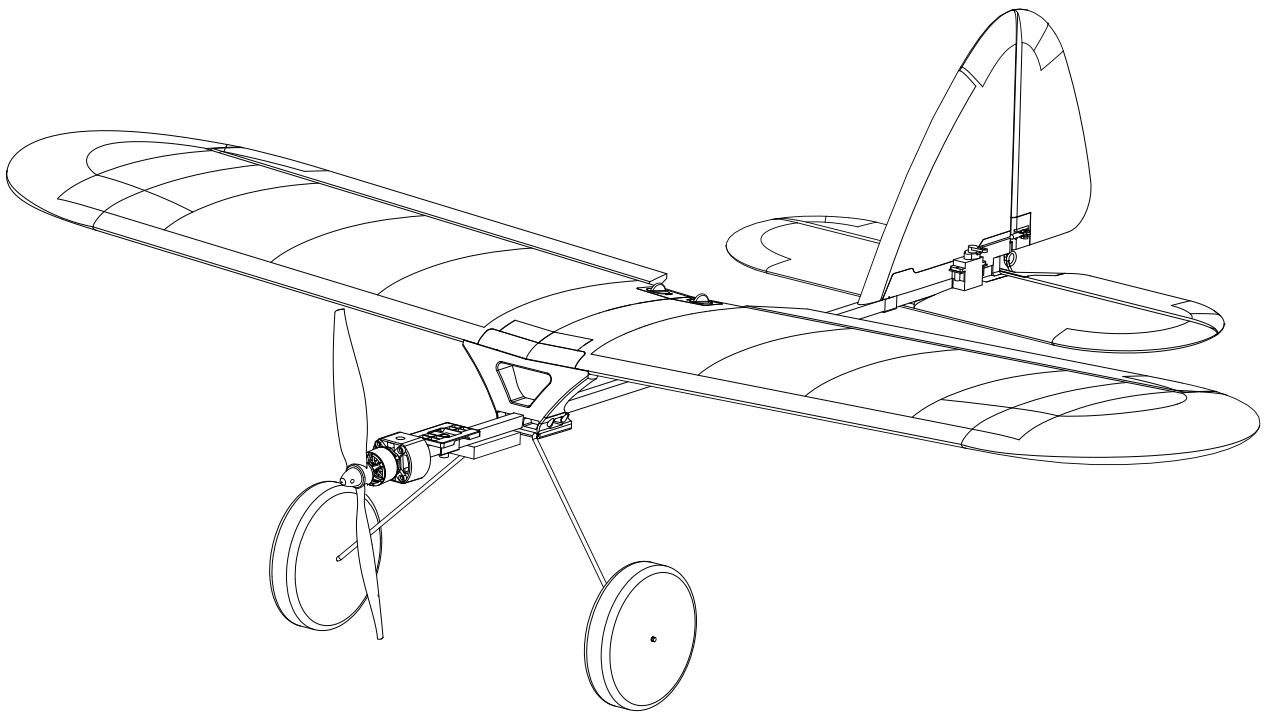
HOBBY Arrows

# 1220mm SkyStick Operating Manual



www.arrowshobby.com

**Warning:** This manual contains important information that will help you maintain and operate your model aircraft in a reliable and safe manner. Please read the instructions and warnings carefully prior to assembly, setup or use.

As this model aircraft is a sophisticated hobby product, it must be flown with safety and common sense in mind, failure in doing so may result in injury or property damage. This product is not intended for use by children without direct adult supervision.

## Safety precautions and warnings

As the user, you are solely responsible for the safe operation and maintenance of this product. Follow the directions and warnings listed in this manual, as well as that of supporting equipment (chargers, batteries etc.) and always use common sense.

**This is not a toy. Not for children under 14 years of age.**

★Always operate your model in an open area away from buildings, cars, traffic or people. Never operate near people-especially children who can wander unpredictably. Never operate in populated areas for any reason, where injury or damage can occur.

★Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.

★Never catch the aircraft while it is in flight, the structure of the fuselage was not designed and protected for this purpose.

★Never operate your model in bad weather, including in excessively windy or precipitating conditions.

★Never operate your model with low transmitter batteries.

★Keep your throttle quadrant in its lowest position prior and after every flight. Use the throttle cut function if able.

★Always use fully charged batteries and move batteries before disassembly.

★Avoid water exposure to all equipment not specifically designed and protected for this purpose.

★Avoid cleaning this product with chemicals.

★Never lick or place any part of your model in your mouth as it could cause serious injury or even death.

★Keep all chemicals, small parts and anything electrical out of the reach of children.

## Introduction

Retro Charm Meets Modern Durability – The Arrows Hobby 1220mm SkyStick

Experience the pure joy of flight with the all-new Arrows Hobby 1220mm SkyStick. Blending a classic high-wing silhouette with a rugged, modern aesthetic, the SkyStick is engineered for pilots who value simplicity, rock-solid stability, and a touch of industrial style.

Premium Aluminum Fuselage:
Departing from traditional all-foam designs, the SkyStick features a signature matte-finish aluminum square tube fuselage. This central backbone isn't just about the "industrial-chic" look—it provides exceptional structural rigidity and makes field repairs incredibly straightforward.

The Ultimate "Slow & Low" Specialist:
With its ultralight wing loading and high-lift profile, the SkyStick excels at slow, predictable flight. It’s the perfect companion for those calm "twilight sessions" at your local park.

3S-Powered Versatility:
Don’t let its docile appearance fool you. Driven by a 2212-KV1300 motor and 20A ESC, a simple punch of the throttle unlocks a world of sporty aerobatics. From loops and rolls to crisp stalls, the SkyStick handles it all with grace.

Beginner Friendly, Expert Approved:
Its inherent high-wing stability makes it a forgiving trainer for novices, while its "tinker-friendly" modularity makes it a favorite "Sunday Flyer" for seasoned pros looking for a stress-free sortie.

Your Canvas in the Sky:
The high-visibility Bright Yellow and Navy Blue livery ensures excellent orientation. The expansive wing surfaces serve as a blank canvas, inviting pilots to customize their ride with DIY decals or personal paint schemes.

Scalable Control:
While optimized with a standard single-servo aileron setup, the wings feature pre-cut slots for an effortless dual-servo upgrade—giving you more precision and authority as your skills progress.

**Features**

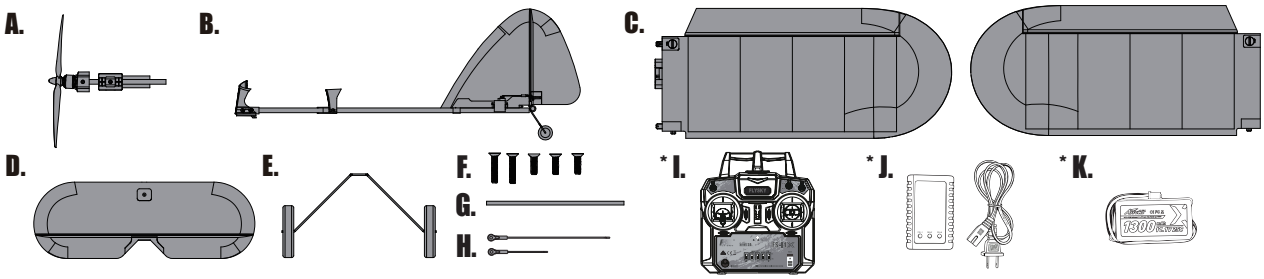
- Equipped with a 2212-KV1300 motor and 20A ESC, delivering ample thrust for both leisurely cruising and spirited aerobatics.
- Premium matte-finish aluminum square tube fuselage for maximum durability.
- Simple, lightweight, and easy to carry design.
- Quick-release main wings and landing gear for rapid assembly at the field.
- Two-piece fuselage structure for compact storage and easy maintenance.
- Robust EPO foam wings designed to withstand the scratches of everyday flying.

## Specifications

| | |
|---|---|
| Wingspan | 1220mm |
| Overall length | 955mm |
| Flying Weight | Around 900g |
| Motor Size | Brushless 2212-KV1300 |
| Wing Load | 26.9 g/dm² (0.0612oz/in²) |
| Wing Area | 33.5 dm² (519.3 sq.in) |
| ESC | 20A |
| Servo | 9g servo positive x 3pcs |
| Recommended Battery | 11.1V 1300mAh-2200mAh 25C |

## Kit Contents

Before assembly, please inspect the contents of the kit. The photo below details the contents of the kit with labels. If any parts are missing or defective, please identify the name or part number (refer to the spare parts list near the end of the manual) then contact your retail store.



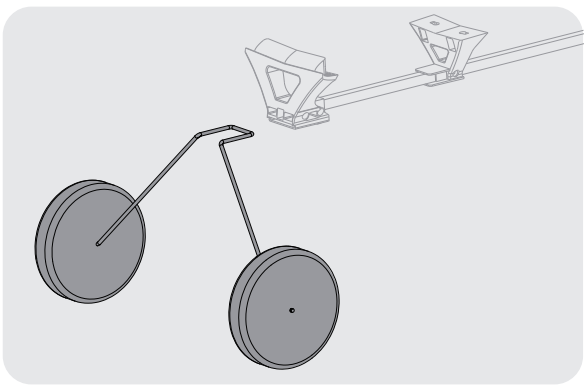

A. Front Fuselage
B. Rear Fuselage
C. Main Wing Set
D. Horizontal Stabilizer
E. Main Landing Gear
F. Screws Set
(3×HKM3*10mm、2×HKM3*20mm)
G. Wing Pipe
H. Linkage Rod
*I. Transmitter (AA Batteries not included)
*J. Battery Charger
*K. 11.1V 1300mAh 25C Battery

Note: Items marked with * indicate that the RTF configuration includes them.

## Model Assembly

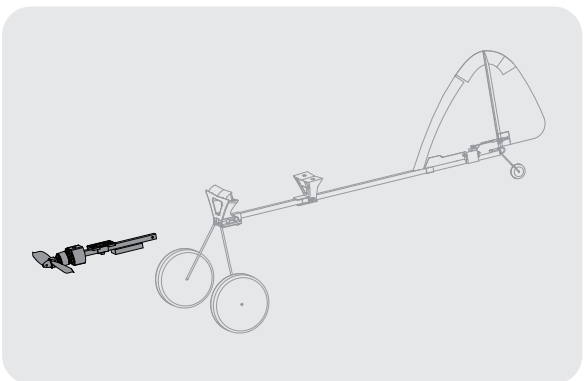
### Landing Gear Installation

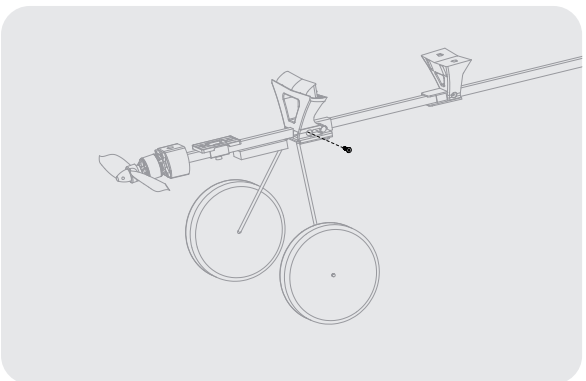
Connect the main landing gear to the rear fuselage.



### Fuselage Installation

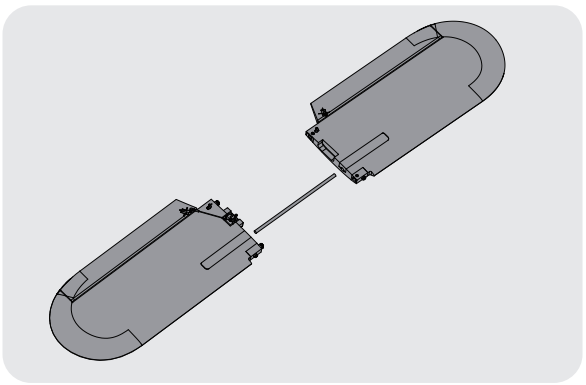
Connect the front and rear fuselages and secure them using the included HKM3*20mm screw.

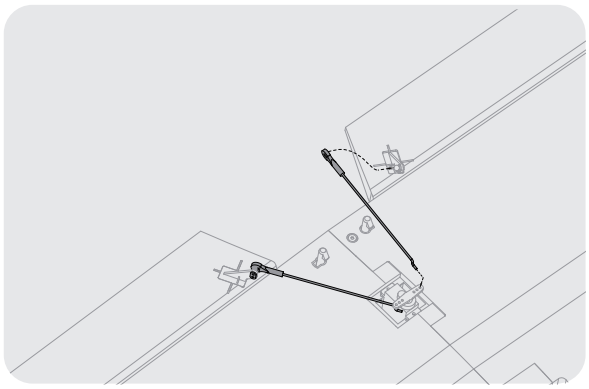




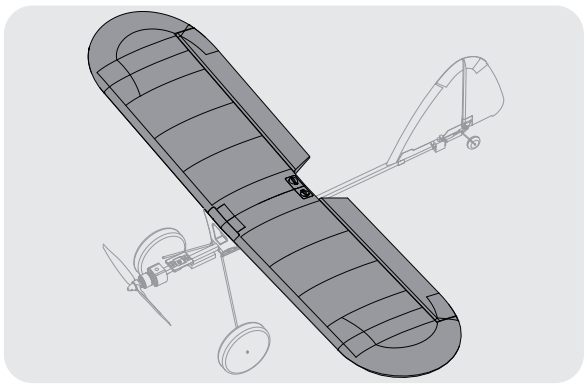
## Main Wing Installation

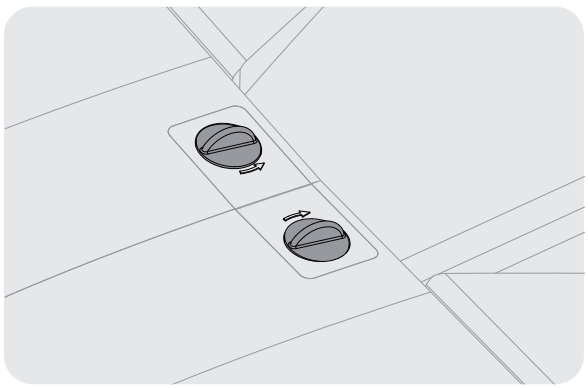
1. Connect the left and right main wings using the connecting tubes, tighten the two HKM3*10mm screws, and install the aileron control wires on the underside of the main wings.





2. Attach the main wings to the fuselage, install the knobs, and turn them 90 degrees to secure them.

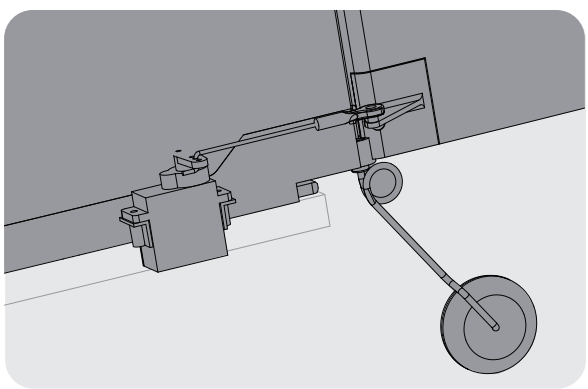




## Horizontal Stabilizer Installation

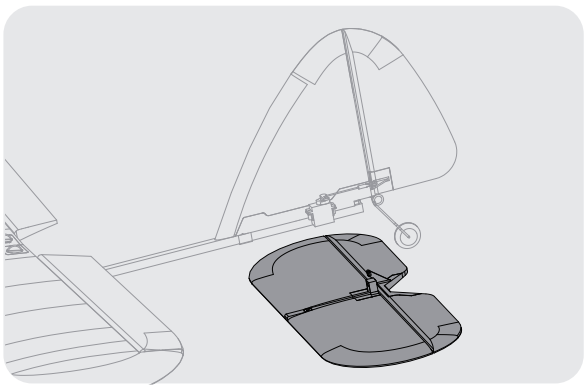
1. Before installing the horizontal stabilizer, push the entire vertical stabilizer assembly toward the tail of the aircraft until it reaches the position as shown.

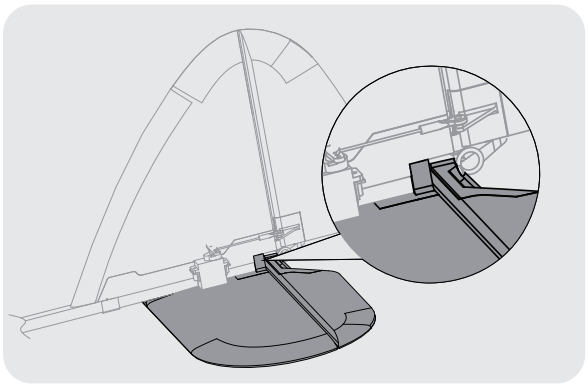




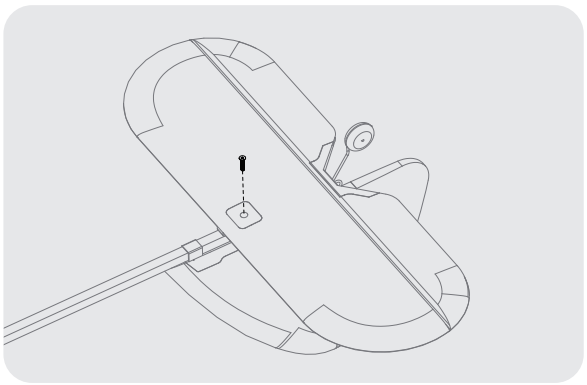
## Model Assembly

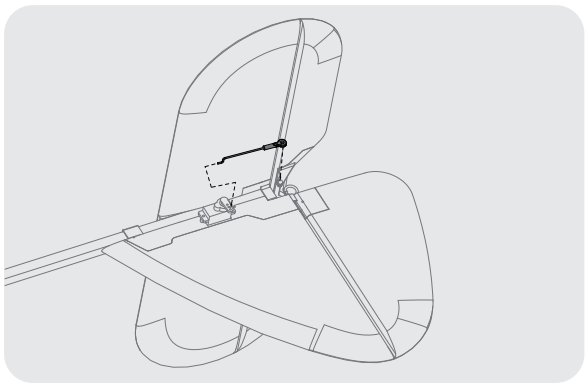
2. Install the horizontal stabilizer; pass the fuselage tube through the plastic part of the horizontal stabilizer, making sure the end of the plastic part is flush with the end of the fuselage tube.





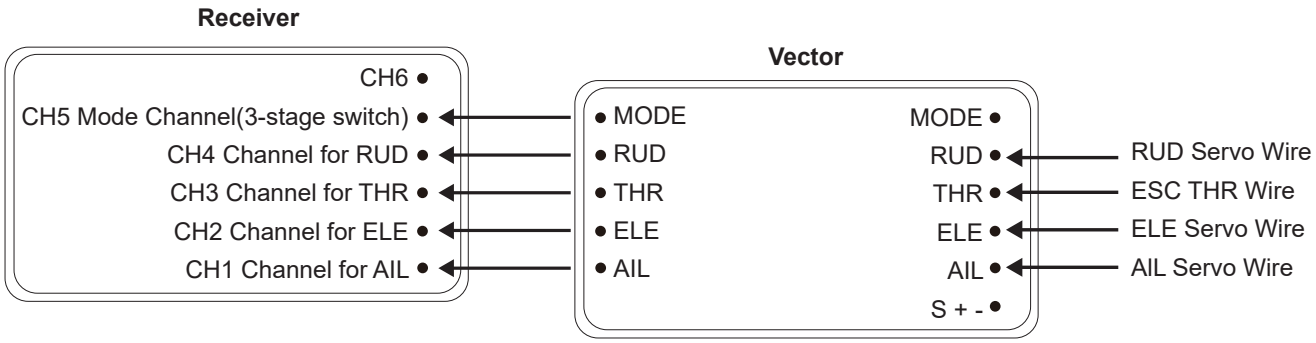
3. Secure it using the included HKM3*20mm screw and attach the Linkage Rod.



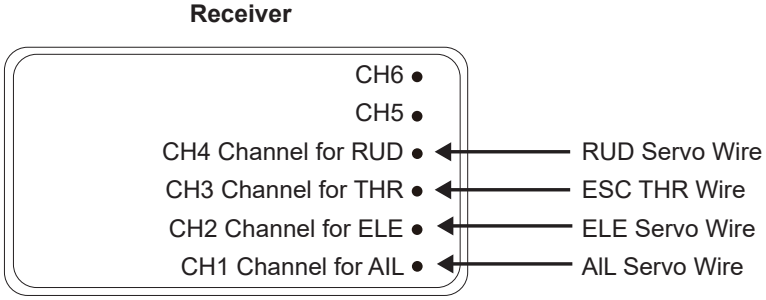


## Receiver Diagram And Channel Functions

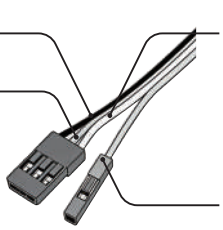
### Universal wire connection




### Universal wire connection without Vector



## Receiver Diagram And Channel Functions



black for negative(-)

red for positive(+)

yellow (or white) for signal(S)

Note:

Observe the wire sequence:

*Optional: if a THR reverse wire (yellow) is included:Connent it to the signal (S) pin of a spare channel on the receiver.Use the correrponding channel to control the thrust reverse function.

## Vector Orientation Check

*Note:

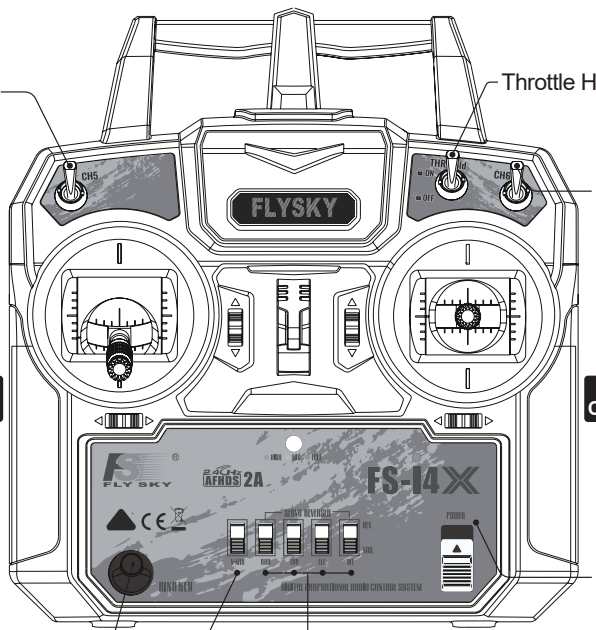
The gyro is pre-installed at the factory.

This diagram is for reference only.

Aircraft nose




## Transmitter Control




• Optimized
Vector Mode(CH5) • Manual
• Stabilization

Throttle Hold

• ON: Throttle Locked (Throttle signal output is forced to 0%)
• OFF: Throttle Unlocked (Throttle signal outputs normally)

CH6 (AUX Channel)

Throttle
Rudder
Left Control Sticks

Elevator
Aileron
Right Control Sticks

Power Switch

Frequency Binding button
(RTF versions are pre-bound by the factory.)

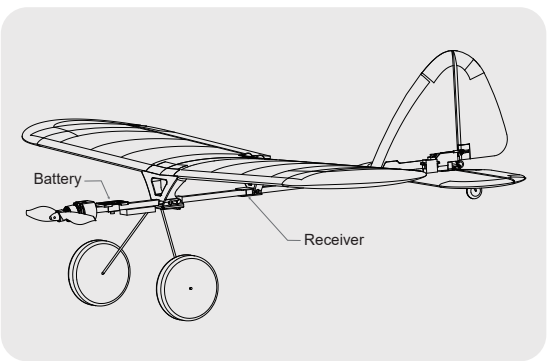
V-Tail Mode Switching
(Not required for this aircraft)

Reverse Switch for Servo
*(Do not arbitrarily flip the throttle THR reverse switch, as doing so may cause serious injury.)*

## Battery/Receiver Installation

As shown, install the manufacturer recommended battery and receiver into their designated compartment and secure it using the included Velcro straps.

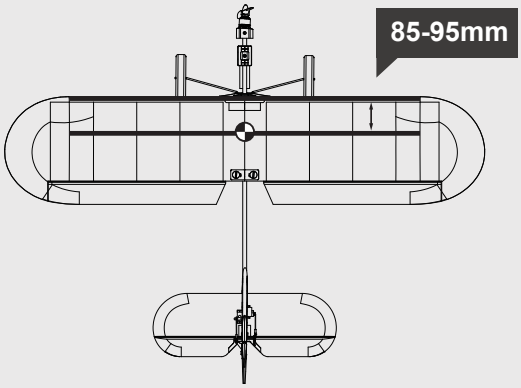
**Note:**
The weight of each battery may vary due to different manufacturer. Move the battery fore or aft to achieve the optimal center of gravity.



## Finding The Center Of Gravity

Finding the correct center of gravity is critical in ensuring that the aircraft performs in a stable and responsive manner. Please adjust the weight distribution so the aircraft balances in the range stated on the diagram.

• Depending on the capacity and weight of your choosen 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 counter weight to achieve correct CG. However, with the recommended battery size, a counterweight is not required. We recommend flying without unnecessary counterweight.

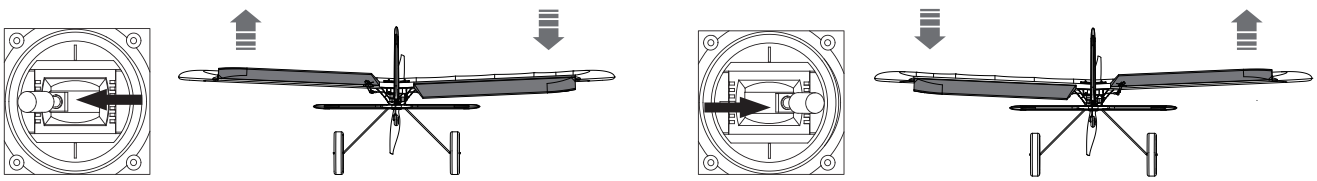



## Control Surface Test

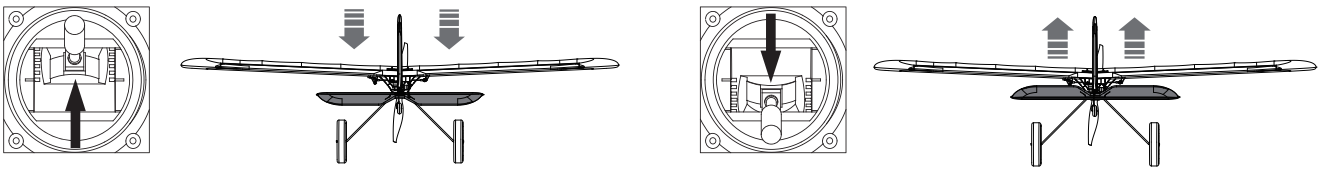
After assembly and prior to your first flight, make sure all control surfaces respond correctly to your transmitter by referrin to the diagram below.

**Note:**During control surface test, ensure the throttle stick is positioned at its lowest position to prevent accidental motor activation and potential accidents.

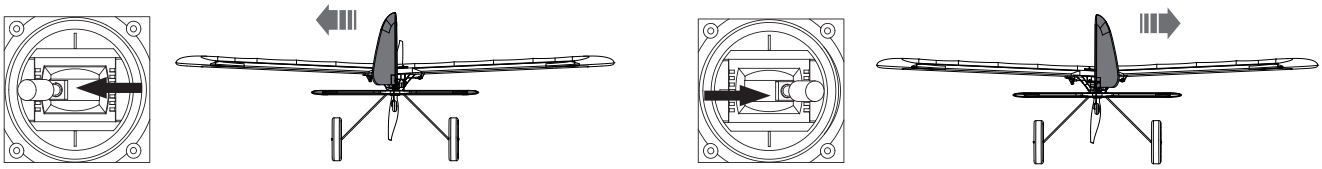
### Aileron



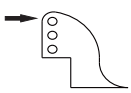
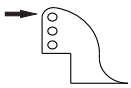
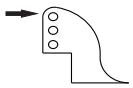
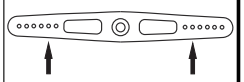
### Elevator

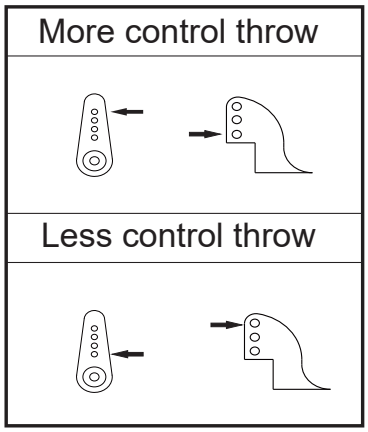


### Rudder



## Control Horn And Servo Arm Settings

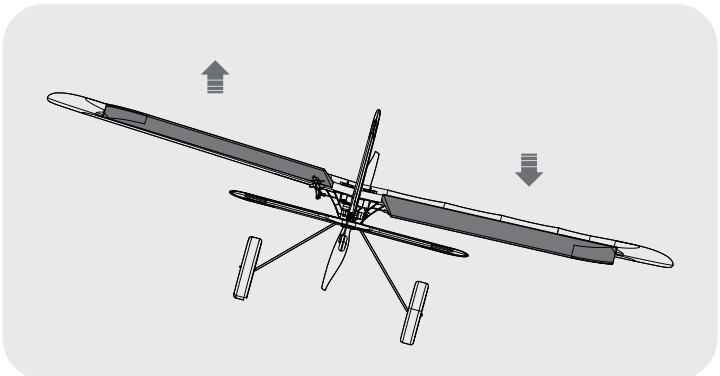
| | Horns | Arms |
|---|---|---|
| Elevator |  |  |
| Rudder |  |  |
| Ailerons |  |  |



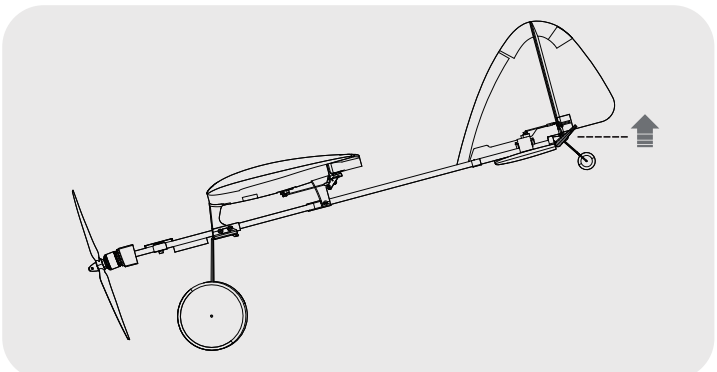

## Flight Mode Check

Flip the flight mode switch (CH5) to the stabilization position, then move the aircraft as shown in the diagram to verify the stabilization function and control surface correction direction.

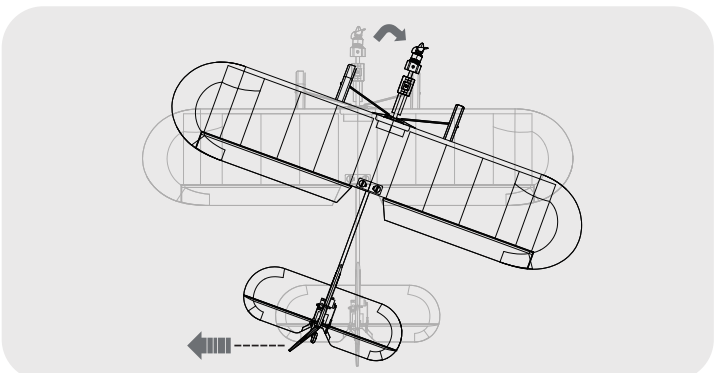
*Tilt the aircraft to the right and observe the aileron response.
The left aileron should perform a upward correction, the right aileron should peform a downward correction.



*Lift the tail and observe the elevator response.
The elevator should perform a upward correction.



*Shake the aircraft sharply to the right; the rudder should perform correction to the left.



## Control Throws

The suggested control throws setting for the this aircraft are as follows:

Tips: The maiden flight should always be flown using low rates, fly the aircraft until you are familiar with its characteristics prior to trying high rates. Make sure the aircraft is flying at a decent altitude and speed prior to using high rates, as the aircraft will be sensitive to control inputs with the larger control surface movements.

| | High Rate | Low Rate |
|---|---|---|
| Elevator | 20mm up / down | 16mm up / down |
| Rudder | 40mm left / right | 30mm left / right |
| Aileron | 20mm up / down | 16mm up / down |

## Flight Checklist (Final Pre-Flight Check)

At this stage, you will perform a final inspection of the environment and aircraft functions, just like a real pilot, to ensure a safe operation.

☐ Environment: Wind speed is below Beaufort Scale 2. Flight area must be clear of people, buildings, and power lines.
☐ Structure: Verify all structural components are securely installed.
☐ Battery: Aircraft battery must be fully charged (full voltage = 4.2V × number of cells; e.g., 3S = 4.2V*3 = 12.6V).
☐ Signal: Transmitter and receiver have established communication (The receiver indicator light steady on, control surfaces respond to input).
☐ Control Surfaces: All control surfaces deflect in the correct direction.
☐ Gyro Correction Direction: All control surfaces correct in the correction direction.
☐ Center of Gravity: Center of gravity falls within the recommended range.
*Note: It is recommended to develop a thorough pre-flight check habit before every flight.

## Troubleshooting

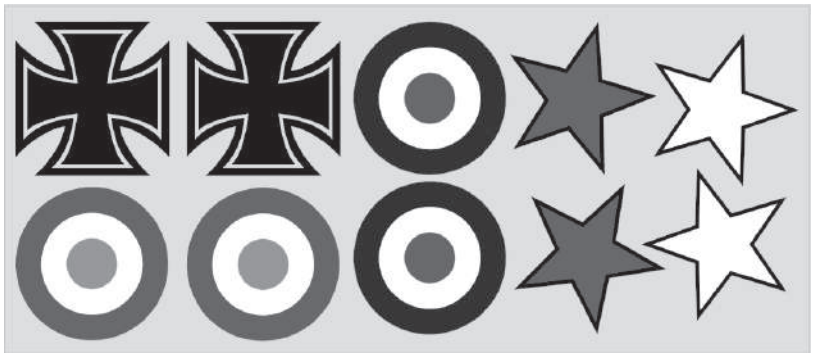
| Problem | Possible Cause | Solution |
|---|---|---|
| Aircraft will not respond to the throttle but responds to other controls. | • ESC is not armed.<br>• Throttle channel is reversed. | • Throttle hold not released.<br>• Check if the throttle channel is reversed. |
| Excessive vibration or propeller noise. | • Damaged spinner, propeller, motor or motor mount.<br>• Loose propeller and spinner parts.<br>• Propellor installed backwards. | • Replace damaged parts.<br>• Tighten parts for propeller adapter, propeller and spinner.<br>• Remove and install propeller correctly. |
| Reduced flight time or aircraft underpowered. | • Flight battery charge is low.<br>• Propeller installed backward.<br>• Flight battery damaged. | • Completely recharge flight battery.<br>• Replace flight battery and follow flight battery instructions. |
| Control surfaces unresponsive or sluggish. | • Control surface, control horn, linkage or servo damage.<br>• Wire damaged or connections loose. | • Replace or repair damaged parts and adjust controls.<br>• Do a check of connections for loose wiring. |
| Controls reversed. | • Channels are reversed in the transmitter. | • Do the control direction test and adjust controls for aircraft and transmitter. |
| Motor loses power<br>Motor power pulses then motor loses power. | • Damage to motor, or battery.<br>• Loss of power to aircraft.<br>• ESC uses default soft Low Voltage Cutoff(LVC). | • Do a check of batteries, transmitter, receiver, ESC, motor and wiring for damage(replace as needed).<br>• Land aircraft immediately and recharge flight battery. |

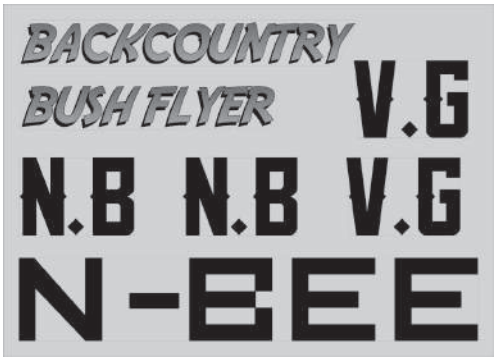
## Spare Parts List

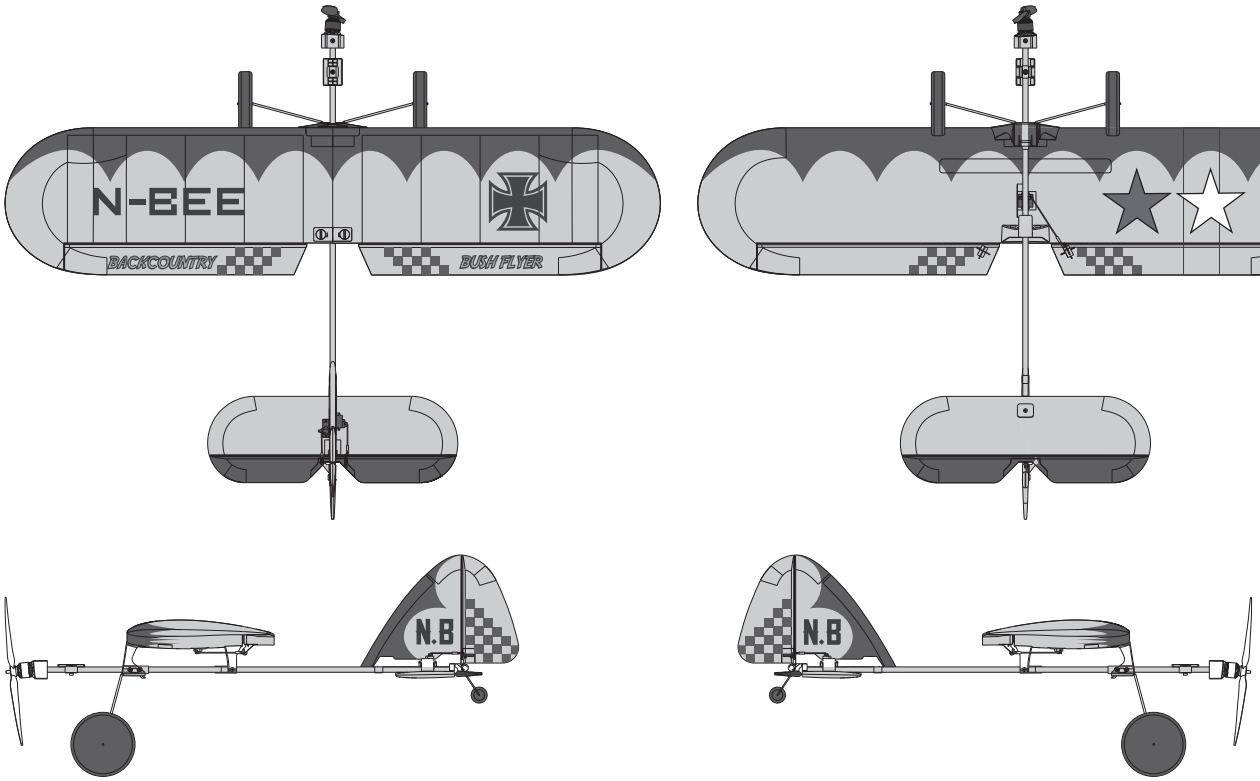
| | |
|---|---|
| AHRH001 | 1220mm SkyStick Front Square Tube Fuselage |
| AHRH002 | 1220mm SkyStick Rear Square Tube Fuselage |
| AHRH003 | 1220mm SkyStick Main Wing Set |
| AHRH004 | 1220mm SkyStick Horizontal Stabilizer |
| AHRH005 | 1220mm SkyStick Vertical Stabilizer |
| AHRH006 | 1220mm SkyStick Main Wing Mount（Front） |
| AHRH007 | 1220mm SkyStick Main Wing Mount（Rear） |
| AHRH008 | 1220mm SkyStick Battery Mount |
| AHRH009 | 1220mm SkyStick Main Wing Plastic Set |
| AHRH010 | 1220mm SkyStick Wing Blots |
| AHRH011 | 1220mm SkyStick Main landing gear set |
| AHRH012 | 1220mm SkyStick Linkage rod |
| AHRH013 | 1220mm SkyStick Screws set |
| AHRH014 | 1220mm SkyStick Wheel set |
| AHRH015 | 1220mm SkyStick Decal sheet |
| AHRH016 | 1220mm SkyStick Wing Pipe |
| AHPROP019 | 10x5 Propeller (2-blades) |
| AHRH017 | 1220mm SkyStick Motor Board |
| AHRD114 | Motor mount |
| AHDZX008 | Motor shaft |
| AHKVX1300 | Brushless motor 2212-KV1300 |
| AHESC001 | 20A ESC (XT60) |
| AHSER034 | 9g digital gear servo positive (coarse spline) with 150mm wire |
| AHSER017 | 9g digital gear servo positive with 460mm wire |
| AHCHR002 | Charger |
| AHBAT003 | 11.1V 1300mAh 25C |
| AHTXX003-1 | FS-i4X Transmitter&Receiver Set (With THR Hold) |
| VEC-AH029R | 1220mm SkyStick Vector |

## Decal Instruction

Please read the decal instructions and apply them either following the reference or your own preference.






Water Decal Instructions:
Do not force them off from the backing paper, Please operate according to the following steps:
1.Make sure your hands are dry, and cut the decal down with scissors carefully.
2.Put the decal in water for at least 30 seconds to bring it to full absorption.
3.Carefuly slide the decal from the backing paper and apply it on the corresponding position of the airframe (it would be helpful to wet the corresponding position of the airframe to adjust the decal)
4.Soak up the excess water with tissue, squeeze out air slowly, and wait for drying.

## 重要提示:

1. 在组装、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。

2. 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。

3. 禁止十四岁以下儿童在任何情况下操作、飞行。

## 警告

★作为用户，您对本产品的安全操作和维护负全部责任。请始终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（例如遥控器、充电器、电池等）。

★本产品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。

★请勿随意暴露置放模型飞机的电子产品，尤其是电池，存放时请务必保证周围三米之内无易燃易爆物体。

★在任何情况下，都务必保证油门杆处于起始位、发射机处于通电状态时，才能连接模型飞机内部的动力电池。

★在任何情况下，都不要尝试用手去回收飞行中的模型飞机，必须要等模型飞机降落停稳以后，再进行回收。

★请勿在公路、人群、高压线密集区、机场附近及其它法律法规明确禁止飞行的场合飞行。

★请勿在雷雨、大风、大雪或者其它恶劣气象环境下飞行。

★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。

★请勿将本产品尤其是未经特别设计和保护的电子件暴漏于潮湿的环境中，以免造成损坏。

★请勿将本品任意处置于口中，以免造成人身伤亡。

★请勿在发射机电池低电量的情况下操纵模型飞机。

★请勿在配件未充分冷却的情况下触碰或移动。

★请勿使用化学制剂擦拭清洁本产品。

★务必保证飞机在整个操作过程中始终在视线范围和遥控控制距离内。

★务必保证在拆卸飞机之前移除电池。

★务必保证所使用的电池是满电状态。

★务必保证所使用的所有线束完好无损。

## 飞机简介

复古魅力邂逅现代耐用——Arrows Hobby 1220mm 小蜜蜂 SkyStick

体验全新 Arrows Hobby 1220mm SkyStick 带来的纯粹飞行乐趣。它将经典的上单翼轮廓与坚固的现代工业美学融为一体，专为追求简约操控、极致稳定性以及独特硬派风格的飞手量身打造。

高端铝制机身
有别于传统的全泡沫结构，飞机采用了标志性的哑光质感铝合金方形管机身。这根贯穿全身的金属“龙骨”绝不只是为了营造“工业雅痞”的视觉风格——它赋予了机体超凡的结构刚性，也更让外场维修变得出奇的简单直接。

极致的“慢速低空”专家
凭借超轻的翼载荷和高升力翼型，在慢速、平稳的飞行姿态中表现出色。它是您享受宁静“黄昏飞行时段”的绝佳拍档。

3S动力，动静皆宜
千万别被它温顺呆萌的外表迷惑。在 2212-KV1300 电机和 20A 电调的驱动下，只需轻推油门，“小蜜蜂”即刻解锁运动特技的全新天地。无论是优雅的大筋斗、利落的横滚还是干脆的失速倒转，它都能游刃有余地从容应对。

新手友好，老手青睐
与生俱来的上单翼高稳定性让它成为新手的“宽容教练机”；而乐于折腾的模块化结构，又令它成为资深玩家心目中首选的无压力“周末休闲机”。

您的空中画布
高可视度的明黄与海军蓝涂装，确保空中姿态辨识清晰。宽阔的机翼表面宛如一张空白画布，正等着您用 DIY 贴纸或个性化涂装去尽情挥洒创意，打造独一无二的专属座驾。

可升级的操控潜力
虽然原厂优化的单舵机副翼配置已足够好用，但机翼内部预留了双舵机安装槽位。随着您飞行技术的精进，只需轻松升级，即可获得更精准、更富掌控力的舵面响应。

**特征：**

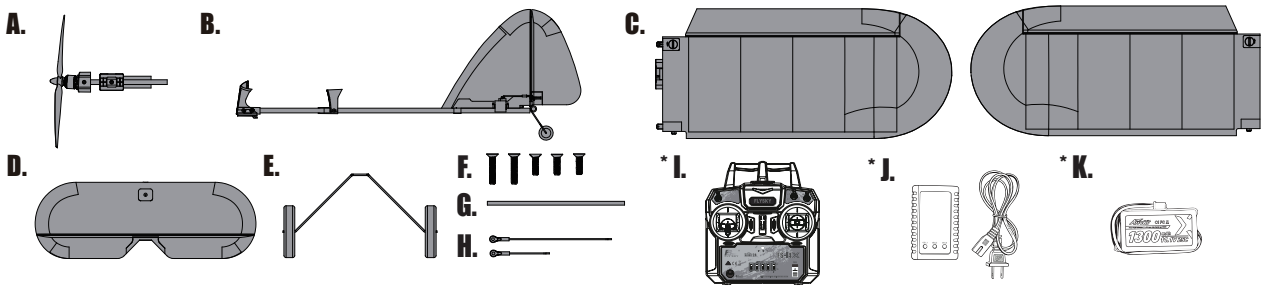
- 动力充沛：搭载 2212-KV1300 电机与 20A 电调，澎湃推力既能悠闲巡弋，亦可激情特技。
- 坚固耐用：高档哑光铝合金方形管机身，硬朗有型，历久弥新。
- 轻巧便携：结构简约，整机轻便，易于携带。
- 快拆快装：主翼与起落架均为快拆设计，外场组装一步到位。
- 紧凑收纳：两段式机身结构，便于收纳存放，维护打理更省心。
- 皮实耐造：高强度 EPO 泡沫机翼，轻松应对日常飞行的各种小磕小碰。

## 产品基本参数

| | |
|---|---|
| 翼展 | 1220mm |
| 机身长 | 955mm |
| 起飞重量 | 大约900g |
| 电机 | 无刷 2212-KV1300 |
| 翼载荷 | 26.9 g/dm$^2$ (0.0612oz/in$^2$) |
| 机翼面积 | 33.5 dm$^2$ (519.3 sq.in) |
| 电调 | 20A |
| 舵机 | 9克塑胶舵机 正向 x 3pcs |
| 推荐电池 | 11.1V 1300mAh-2200mAh 25C |

**！注意：** 此处各项参数，均是使用原装配置测试得出，如果使用他厂配件，会有所差异。使用他厂配件时所产生的问题，我司将无法给予技术支持。

## 产品包装清单




A.前机身管
B.后机身管
C.主翼
D.平尾

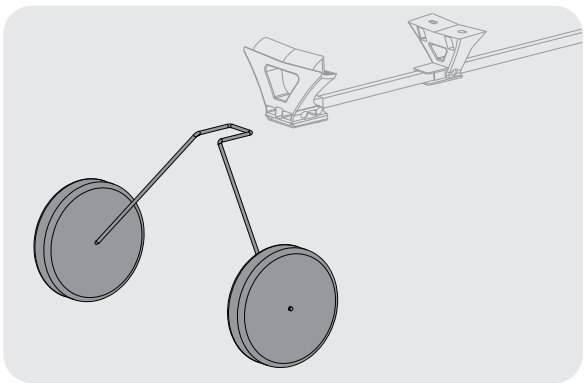
E.前起落架
F. 螺丝
(3×HKM3*10mm、2×HKM3*20mm)
G.主翼对接管
H.连接钢丝

*I.遥控器（RTF版本)*遥控器不包含电池
*J.充电器（RTF版本）
*K.11.1V 1300MAh 25C 电池(RTF版本）

## 组装过程

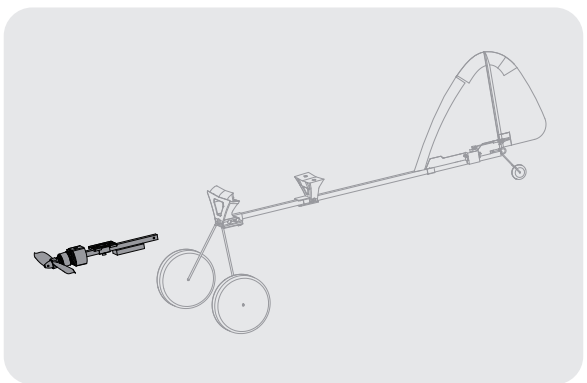
### 起落架安装

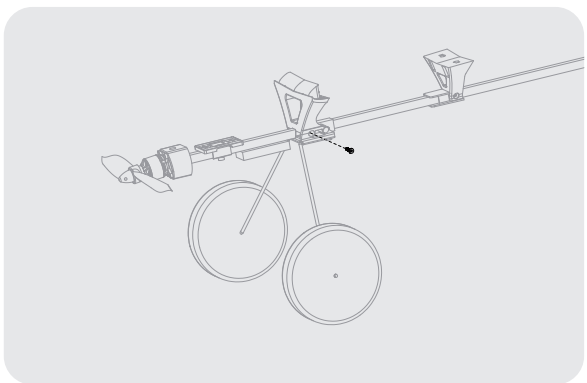
前起落架与后机身管连接。



### 机身安装

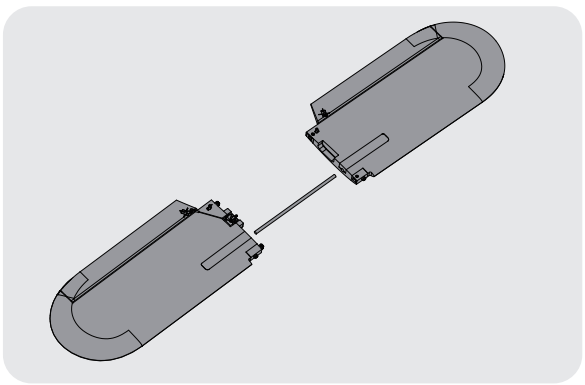
将前后机身连接并用所附1颗HKM3*20mm螺丝固定。

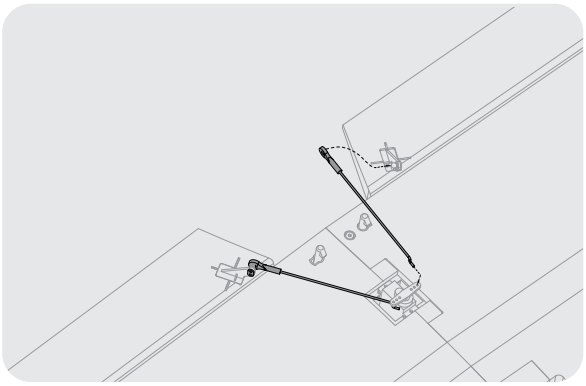




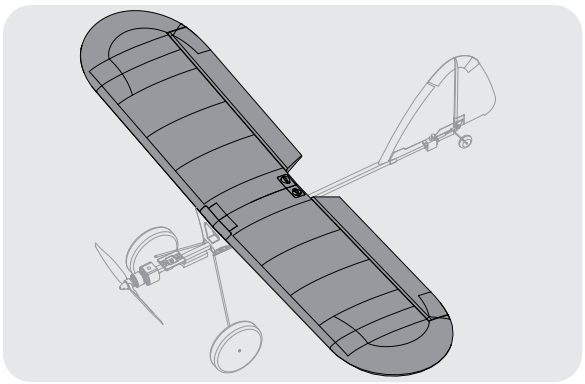
## 主翼安装

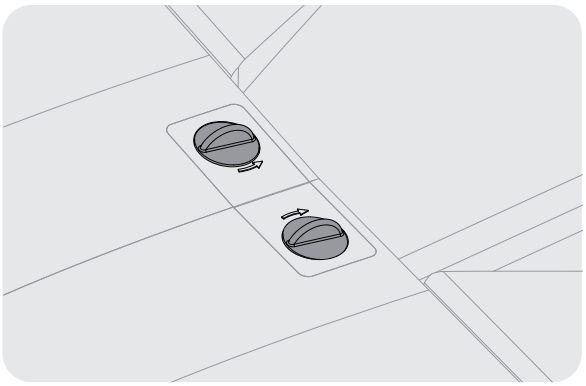
1.将左右主翼用对接管连接，并锁紧2颗HKM3*10mm螺丝，并安装主翼背面的副翼拉杆钢丝。





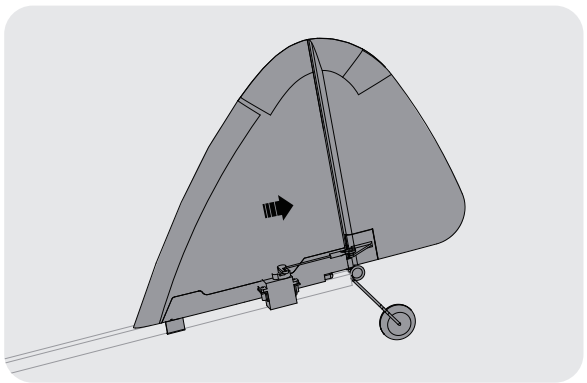
2.将主翼连接至机身，安上旋钮并旋转90度以扣紧。

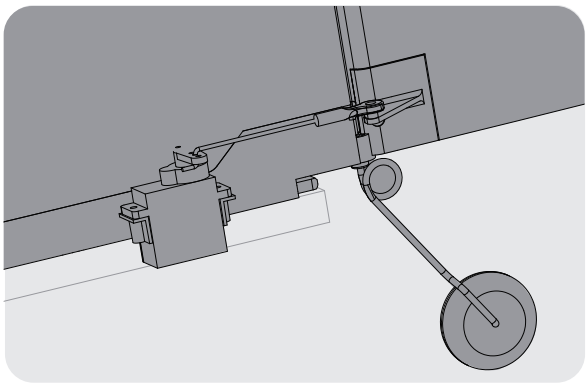




## 平尾安装

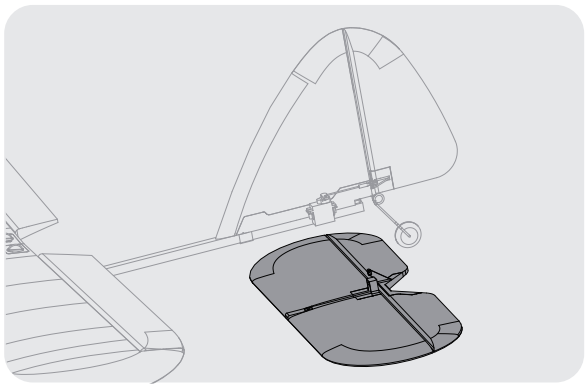
1.装平尾前，先将整个垂尾组件往机尾推，推至图示位置。

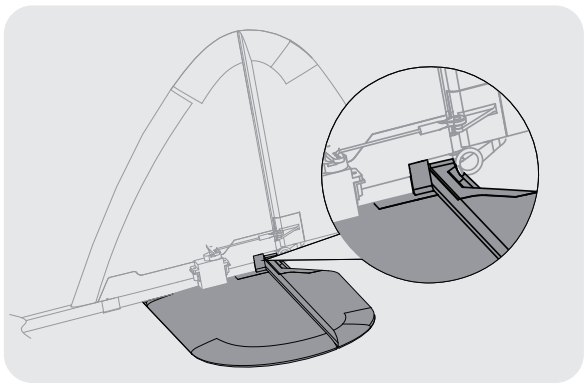




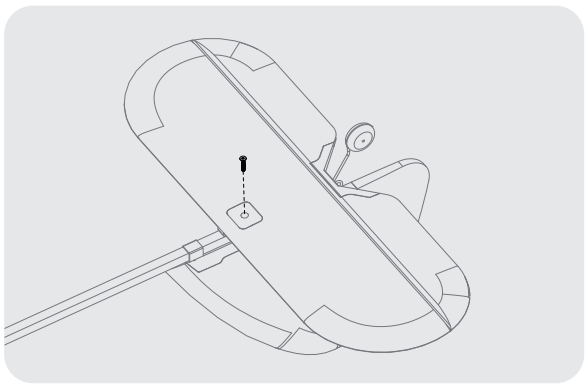
## 组装过程

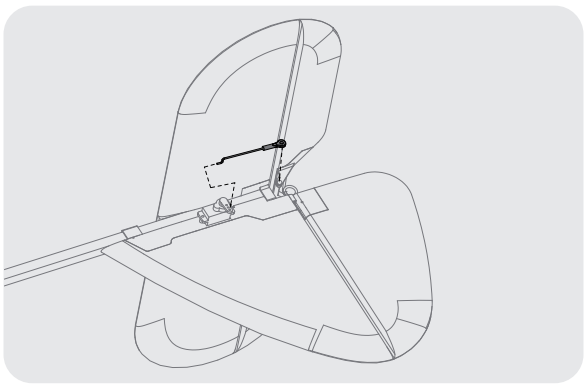
2. 安装平尾，机身管穿过平尾塑胶件，注意平尾塑胶件尾部与机身管尾部平齐。





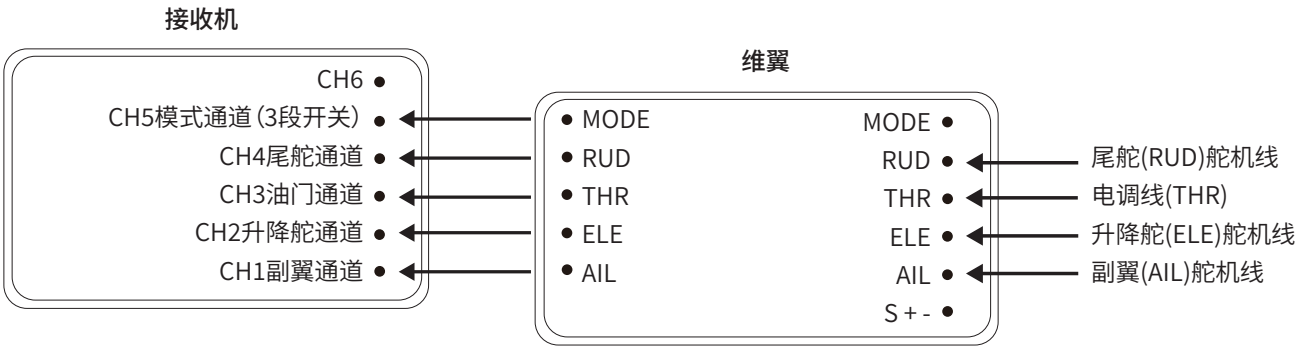
3.使用所附1颗HKM3*20mm螺丝固定，并连接平尾钢丝。



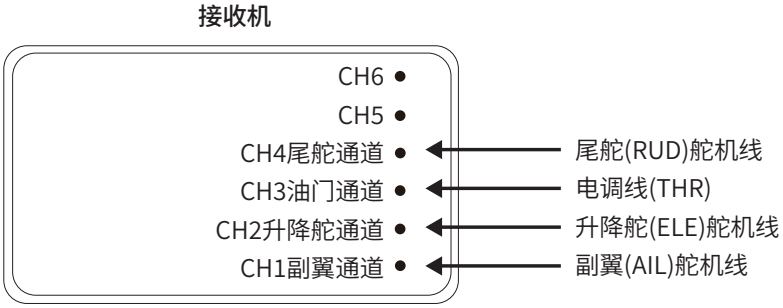


## 接收机接线示意图及通道功能

### 通用接线方法




### 无维翼版通用接线方法

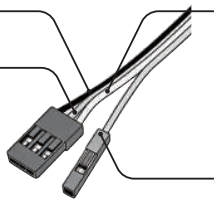


## 接收机接线示意图及通道功能

请注意线序：

黑 - 负极线(-)

红 - 正极线(+)



黄(或白)- 信号线(s)

* 若有 THR 反推线(黄)
连接至接收机空闲通道信号(s)针脚，使用对应通道控制反推功能

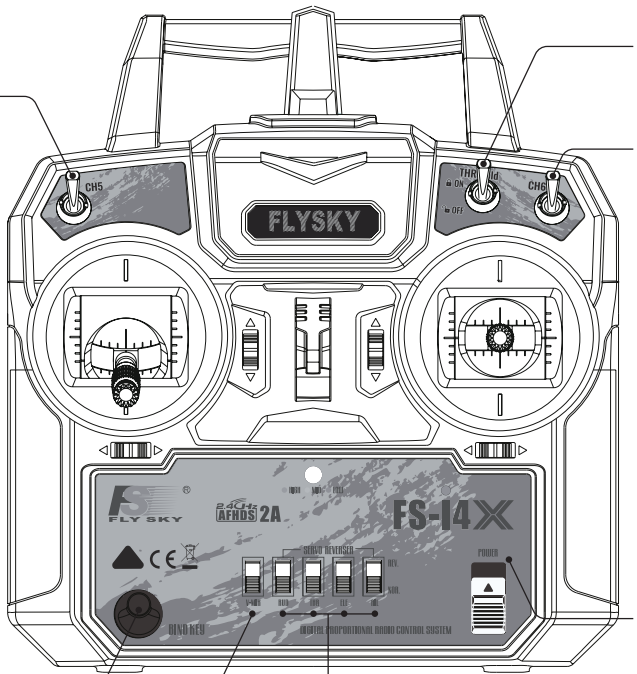
## 维翼安全方向检查

* 本机的维翼出厂已经安装好，此图仅供参考。

飞机机头




## 遥控器操作方法




维翼模式(CH5)
- 增稳
- 手动
- 自稳

油门锁
- ON：上锁状态
(油门信号输出强制为0%)
- OFF：解锁状态
(油门信号正常输出)

CH6(空余通道)

油门

方向舵

左摇杆

升降舵

副翼

右摇杆

遥控开关

对频按钮(RTF出厂已对好频)

V尾模式切换(本机不需要使用)

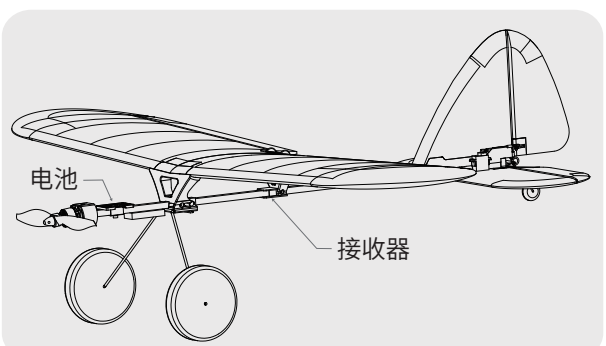
舵机反向开关
*(油门THR反向开关切勿随意拨动，否则可能造成严重伤害事故)*

## 电池/接收器安装

如图所示，安装厂家推荐型号电池和接收器至于所指定位置，使用所附魔术带或魔术贴固定。

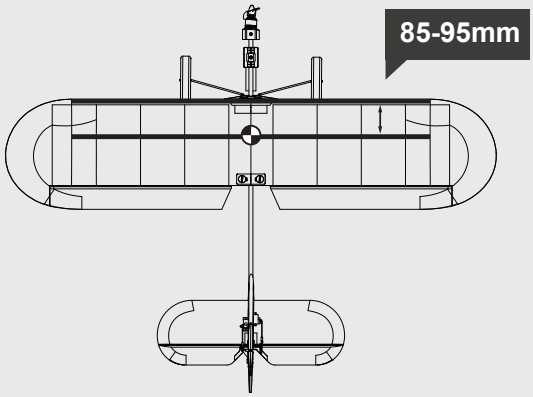
**注意：**

由于不同电池厂家生产的电池重量有轻微的差异，需要调整电池的前后位置来平衡飞机的重心位置。



## 重心位置

本产品的重心在机翼前缘向后 85-95 mm 的位置。玩家需要通过移动电池在电池舱里的前后位置或者使用配重块来调整重心。请务必确保，在调整飞机重心的时候，飞机处于组装完毕待飞的状态。



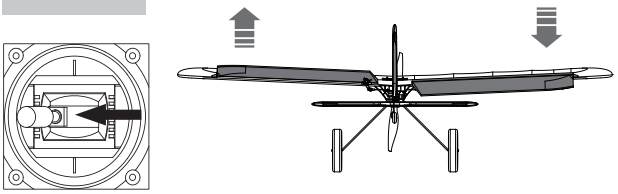

## 舵面测试

在计划飞行之前，需要使用遥控器测试每个舵面的工作情况，确保摇杆动作与各个舵面动作的对应关系如下图所示：

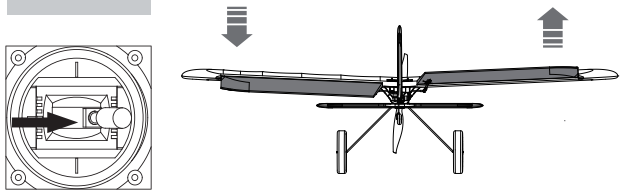
**注意：**在舵面调试中，请务必将油门摇杆置于最低位，以免电机意外启动发生事故。

### 副翼

副翼摇杆向左运动

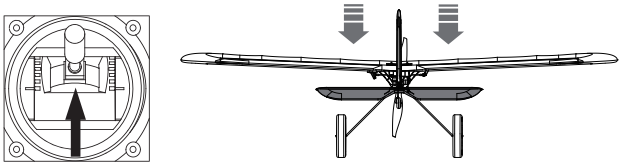


副翼摇杆向右运动

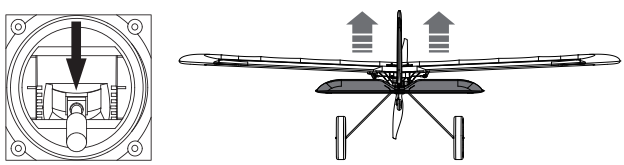


### 升降舵

升降摇杆向上运动

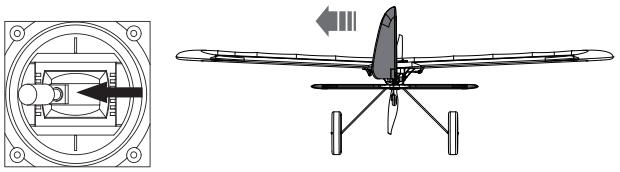


升降摇杆向下运动

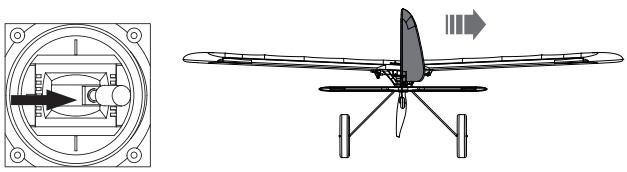


### 方向舵

方向摇杆向左运动

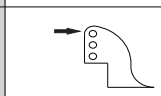
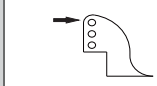
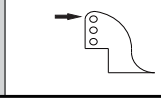
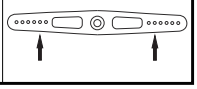


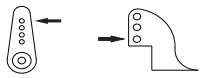
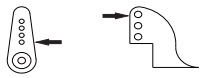
方向摇杆向右运动



## 舵角安装

图示是出厂设置，首飞建议直接使用出厂设置，完成首飞以后，根据个人情况以及对航模的熟知程度自行调整。

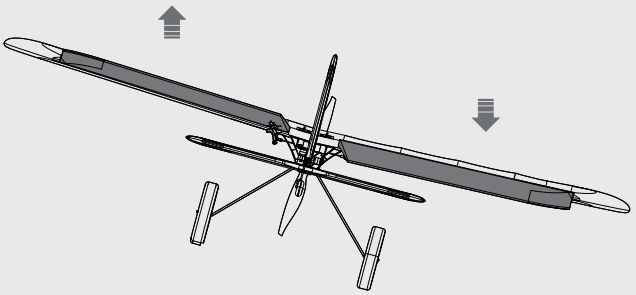
| | 舵角 | 摇臂 |
|---|---|---|
| 平尾 |  |  |
| 垂尾 |  |  |
| 副翼 |  |  |

| 大舵面 |
|---|
|  |
| 小舵面 |
|  |

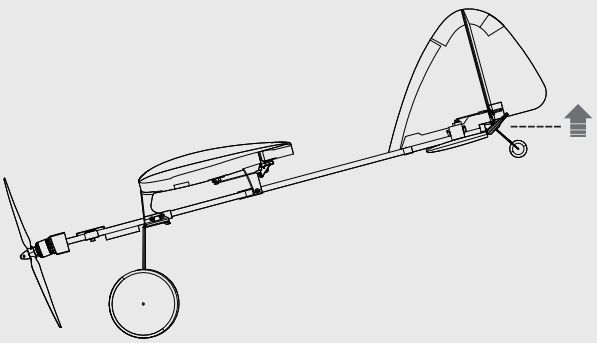
## 陀螺仪舵面修正检查

**拨动飞行模式开关(CH5)至自稳档，并按图示摆动飞机，确认陀螺仪自稳功能和舵面修正方向。**

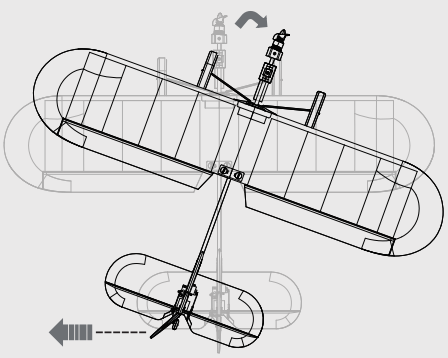
***使飞机往右倾斜，观察副翼动作，**
**左副翼应向上修正，右副翼应向下修正。**



***抬起飞机机尾，升降舵应向上修正。**



***向右迅速摇动飞机，尾舵应往左修正。**



## 舵面行程

**本产品舵面行程参数如右图所示:**

**请注意，舵量越大，模型飞机的动作响应越快，动作幅度越大。首飞建议使用小舵量。然后根据个人情况以及对模型飞机的熟知程度调整舵量。**

| | 大 | 小 |
|---|---|---|
| 升降舵 | 20mm上/下 | 16mm上/下 |
| 方向舵 | 40mm左/右 | 30mm左/右 |
| 副翼舵 | 20mm上/下 | 16mm上/下 |

## 飞行检查单(起飞前最后确认)

到这一步，你将会需要像真实的飞行员一样，对环境和飞机的功能做最后的检查，以确保安全。

☐ 环境：风速小于2级，飞行范围远离人群、房屋及高压线。

☐ 结构：确认机体结构件安装紧固。

☐ 电量:飞机电池电量充足(满电电压为4.2V*电池S数,如3S为4.2V*3=12.6V)。

☐ 信号：遥控器与接收机已成功通信（指示灯常亮，舵面操控有响应）。

☐ 舵面检查：各舵面偏转方向正确。

☐ 陀螺仪修正方向： 各舵面修正方向正确。

☐ 重心检查：重心在推荐范围内。

建议每次飞行前都养成良好的检查习惯。

## 故障快速处理

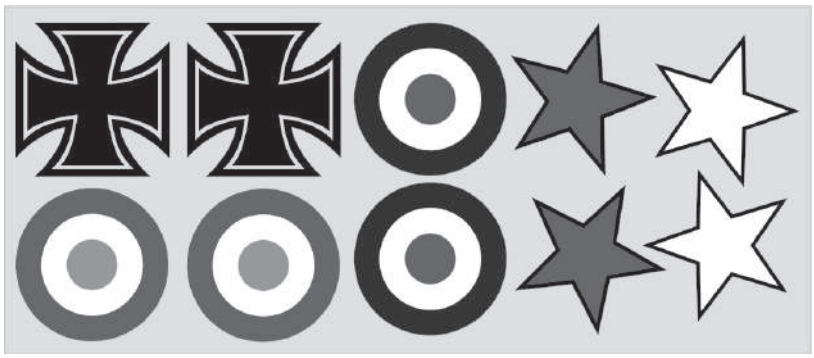
| 问题 | 问题原因 | 解决方式 |
|---|---|---|
| 油门推杆无响应，但舵机有响应 | ——电调未连接电机<br>——油门通道反向 | ——油门锁未打开<br>——确认油门通道是否反向 |
| 桨的噪音过大或者震动过大 | ——桨罩、桨、电机、电机架坏了<br>——桨或者桨罩的小部件松动了<br>——桨装反了 | ——更换损坏的配件<br>——把桨、桨夹和桨罩的小部件拧紧<br>——反过来重新装桨 |
| 飞行时间变短，飞机无力 | ——电池电量低<br>——桨装反了<br>——电池坏了 | ——重新给电池充电<br>——依照电池说明书更换新的电池 |
| 飞舵面不动，或者动作响应较慢 | ——舵面、舵角、连接杆、舵机坏了<br>——连接线坏了或者接头松了 | ——更换或者维修坏了的配件<br>——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 |
| 电机无力 | ——电机或电池坏了<br>——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）<br>——立刻操控飞机降落，重新给电池充电 |

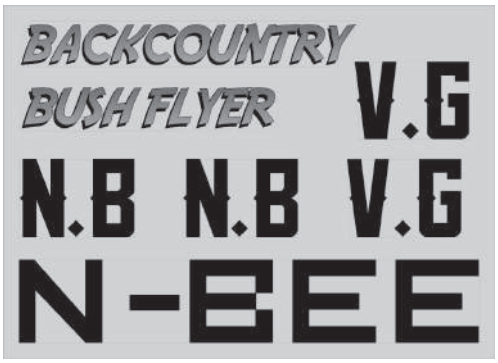
## 配件列表

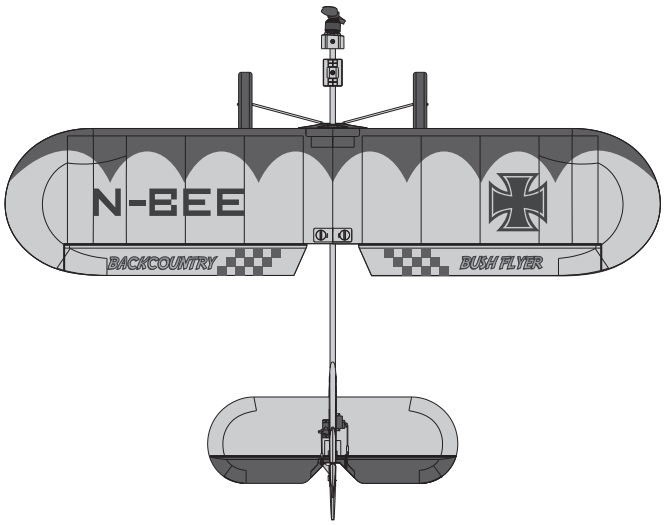
| | | | |
|---|---|---|---|
| AHRH001 | 前机身管 | AHRH015 | 贴纸 |
| AHRH002 | 后机身管 | AHRH016 | 对接管 |
| AHRH003 | 主翼 | AHPROP019 | 10x5 桨（二叶） |
| AHRH004 | 平尾 | AHRH017 | 电机板 |
| AHRH005 | 垂尾 | AHRD114 | 850mm P51 电机架 |
| AHRH006 | 主翼安装座（前） | AHDZX008 | 2215电机轴 |
| AHRH007 | 主翼安装座（后） | AHKVX1300 | 2212-KV1300电机 |
| AHRH008 | 电池座 | AHESC001 | 20A 电调 200mm线长 XT60头 |
| AHRH009 | 主翼胶件组 | AHSER034 | 9g塑胶数码正向舵机（粗齿）L=150mm |
| AHRH010 | 主翼锁扣 | AHSER017 | 9g塑胶数码正向舵机L=460mm |
| AHRH011 | 主起落架组 | AHCHR002 | 充电器 |
| AHRH012 | 连接杆 | AHBAT003 | 电池 |
| AHRH013 | 螺丝组 | AHTXX003-1 | 发射和接收机组 FS-i4X（带油门锁） |
| AHRH014 | 轮胎组 | VEC-AH029R | 维翼 |

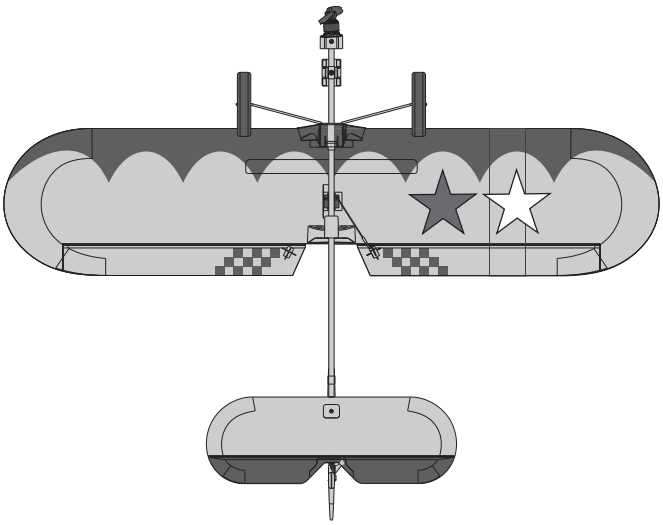
## 贴纸安装说明

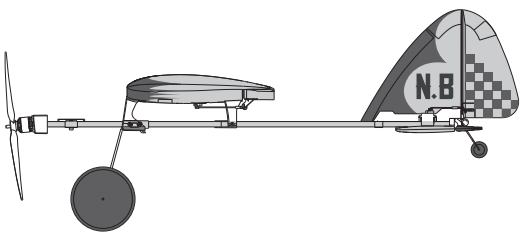
请认真阅读水贴使用方法，参考下图位置粘贴或自行DIY。

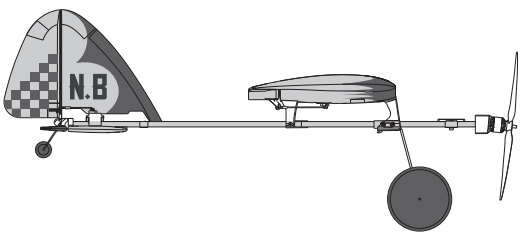







水贴安装方法

以上几个是水贴,请不要尝试强行撕下。

1.用剪刀剪下你需要用到的水贴(注意不要剪破透明部分)。

2.把剪下的水贴放到水里至少30秒,让纸张完全吸水。

3.把贴纸靠近飞机对应位置,然后慢慢把贴纸移出,吸附在飞机上。(为了方便,我们可以在飞机要贴的位置用少量水润湿,以便调整贴纸位置)。

4.用纸巾轻轻吸掉多余的水,挤出空气,等待干燥。

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