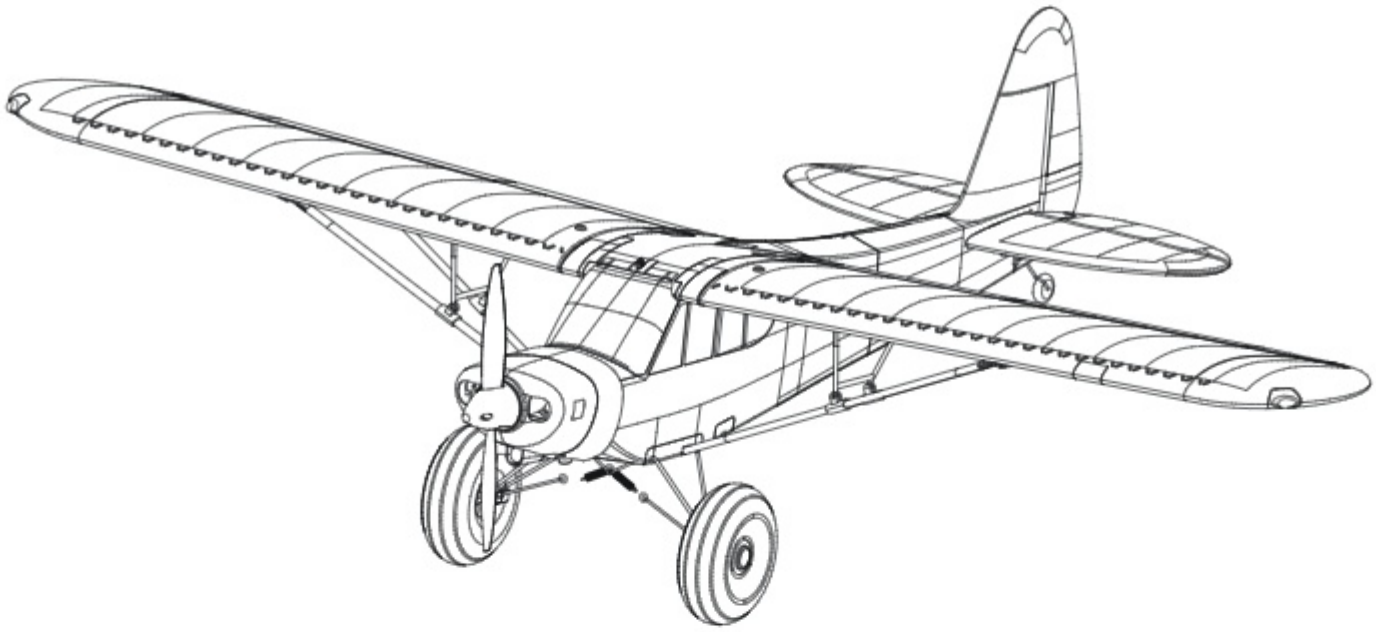
1300mm PA-18

Quick Start Guide
快速指南



FLOAT
- Optional float

RIGID
- Strong durable EPO

STABLE
- Smooth flying performance

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WARNING ⚠

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product,personal property and cause serious injury. This is a sophisticated hobby product and NOT a toy. It must be operated with caution and common sense and failure to do so could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. This manual contains instructions for safety operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual prior to assembly, setup or use, in order to operate and avoid damage or serious injury.

Safety precautions and warnings

As the user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others or result in damage to the product or the property of others. This model is controlled by a radio signal subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is advisable to always keep a safe distance in all directions around your model, as this margin will help avoid collisions or injury.

Age Recommendation: Not for children under 14 years. This is not a toy.

• Never operate your model with low transmitter batteries.

• Always operate your model in an open area away from cars, traffic or people.

• Avoid operating your model in the street where injury or damage can occur.

• Never operate the model in populated areas for any reason.

• Carefully follow the directions and warnings for this and any optional support equipment you use (chargers,rechargeable battery packs, etc.)

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

• Moisture causes damage to electronics. Avoid water exposure to all equipment not specifically designed and protected for this purpose.

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

Safety

Lithium Polymer (Li-Po) Battery Warning

CAUTION: Always follow the manufacturer's instructions for safe use and disposal of batteries. Fire, property damage, or serious injury can result from the mishandling of Li-Po batteries.

- By handling, charging or using a Li-Po Battery you assume all risks associated with lithium batteries. If at any time the batteries begin to swell or balloon, discontinue use immediately!
- Always store the batteries at room temperature in a dry area to extend the life of the battery. Always transport or temporarily store the battery in a temperature range of 40-120F. Do not store the battery or model in a car or in direct sunlight. If stored in a hot car, the battery can be damaged or even catch fire.
- Never use a Ni-Mh Charger to charge Li-Po Batteries. Failure to charge the battery with a Li-Po compatible charger may cause fire resulting in personal injury and property damage.
- Never discharge Li-Po Cells below 3V.
- Never leave charging batteries unattended.
- Never charge damaged batteries.

Charging the Flight Battery Warning

- Use a battery charger that is designed to safely charge the Li-Po Battery. Read the charger instructions carefully before use. When charging the battery, make certain the battery is on a heat resistant surface. It is also highly recommended to place the Li-Po Battery inside a fire resistant charging bag readily available at hobby shops or online.

Thank you for purchasing the 1300mm PA-18! Follow the steps in this Quick Start Guide to complete assembly and setup in minimal time, you can begin enjoying your flight.

For more detailed installation, configuration, and safety warning, be sure to scan the QR code on the cover to access the manual.

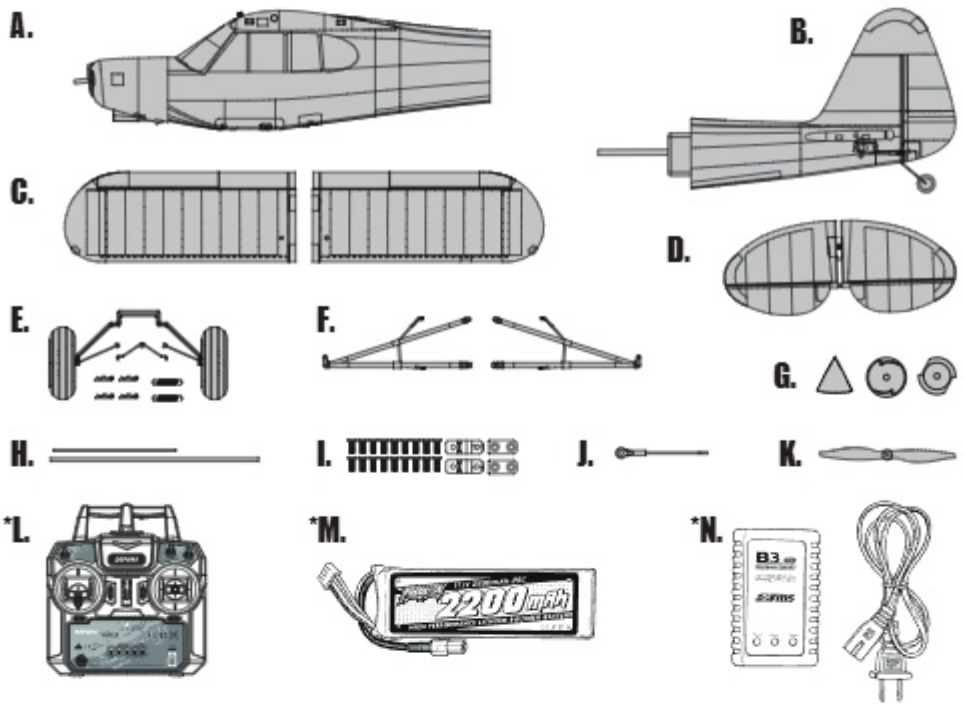
Assembly Tool Guide: 2mm Hex Driver(not included), for tightening screws.

Step 1: Parts Inspection

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 full manual) then contact your retail store or email us: support@fmsmodel.com.

Specifications
Wingspan: 1300mm(51.2in)
Overall length: 986mm(38.8in)
Flying weight: ~1450g
Motor size: 3536-KV850
Wing load: 48g/dm² (0.096oz/in²)
Wing area: 30dm² (464.7sq.in)
ESC: 40A
Servo: 9g x 6
Recommended battery: 11.1V 2200mAh 25C

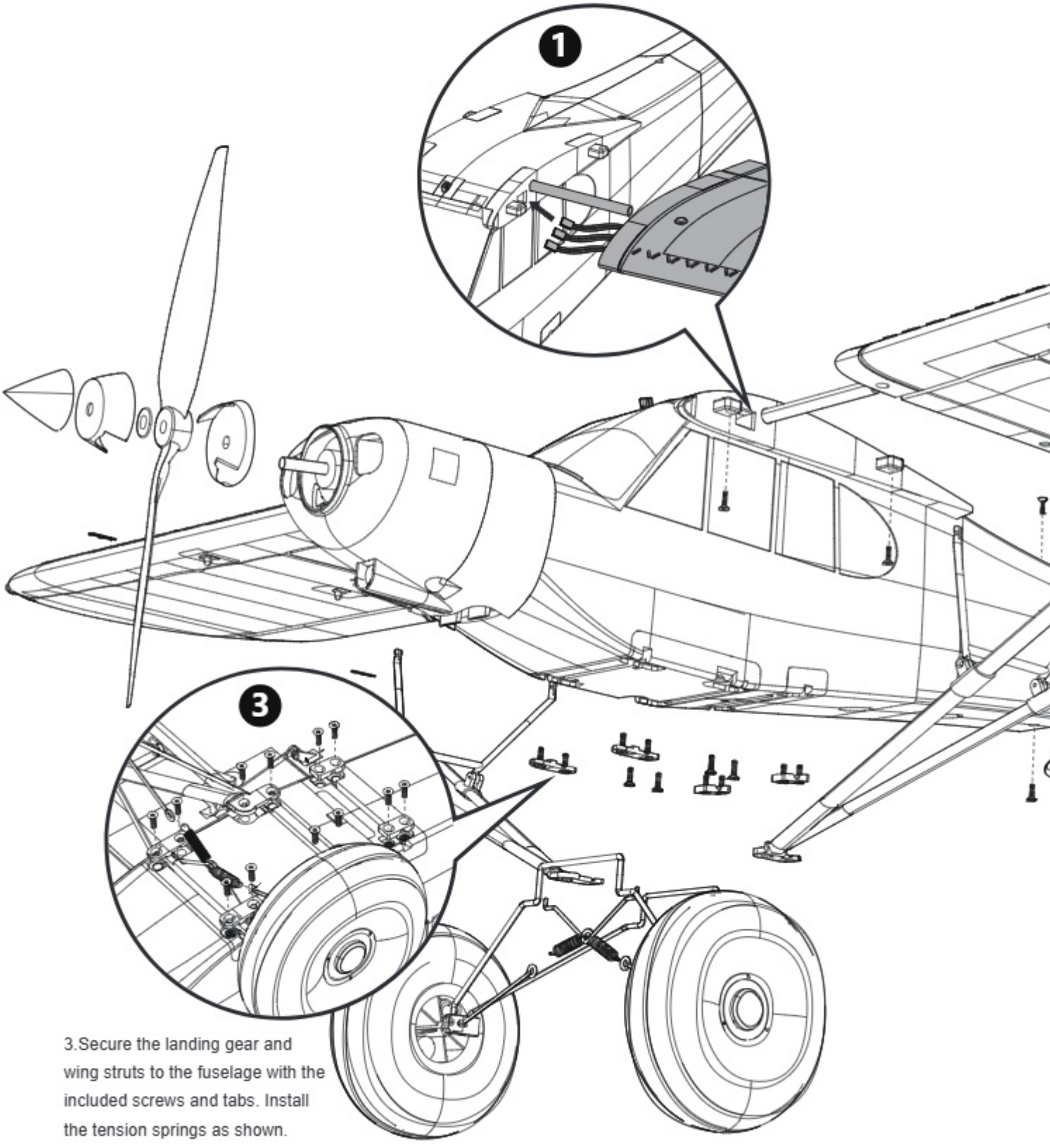


A: Front Fuselage
B: Rear Fuselage
C: Main Wing Set
D: Horizontal Stabilizer
E: Front Landing Gear Set
F: Supporting Bar Set
G: Spinner
H: Pipe
I: Screw Set
J: Linkage Rod
K: Propeller
*L: Transmitter(RTF)
*M: Battery(RTF)
*N: Battery Charger(RTF)
*AA Batteries not included

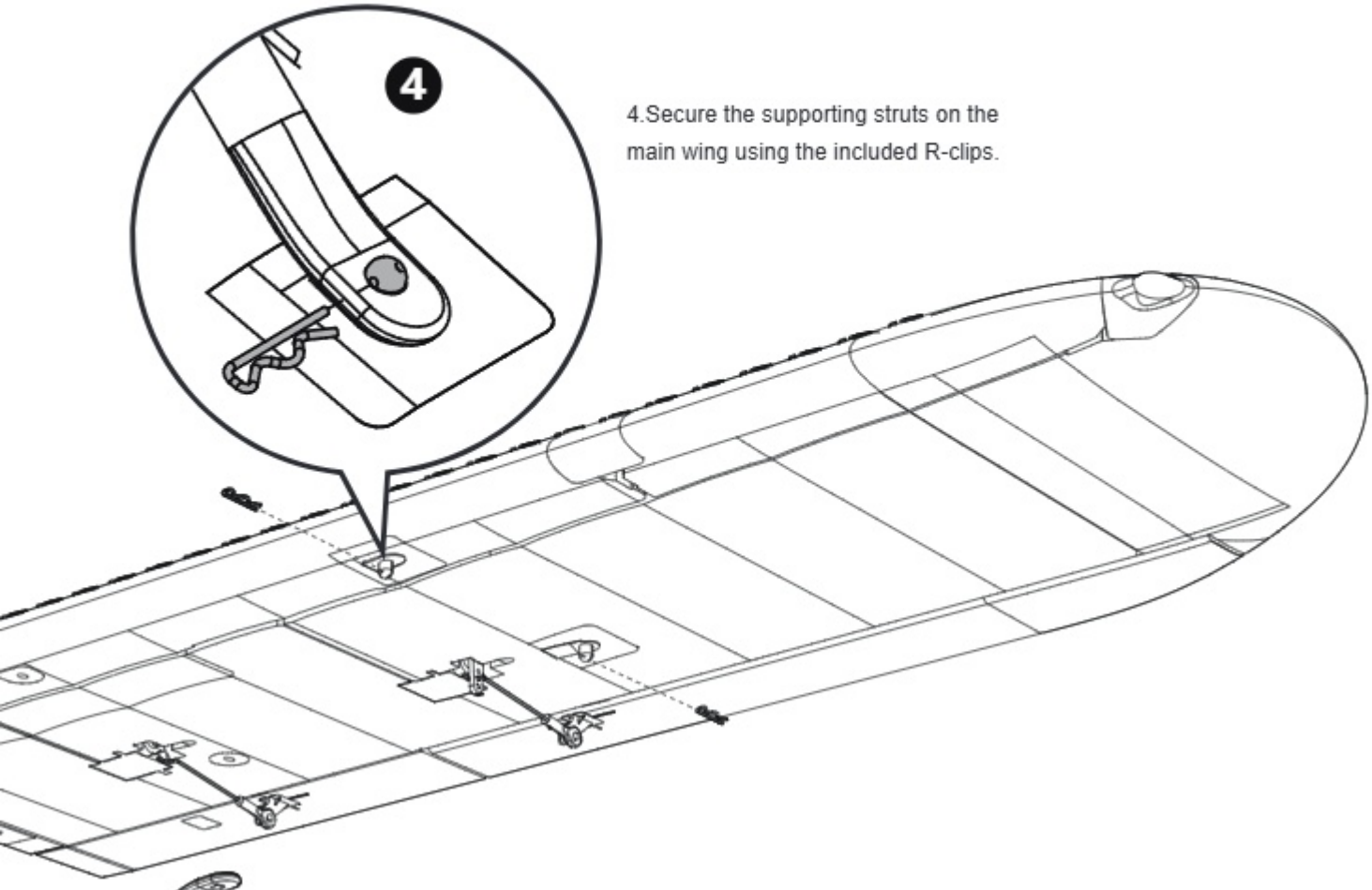
Note: Items marked with * indicate that the RTF configuration includes them.

Step 2: Core Assembly and Wiring

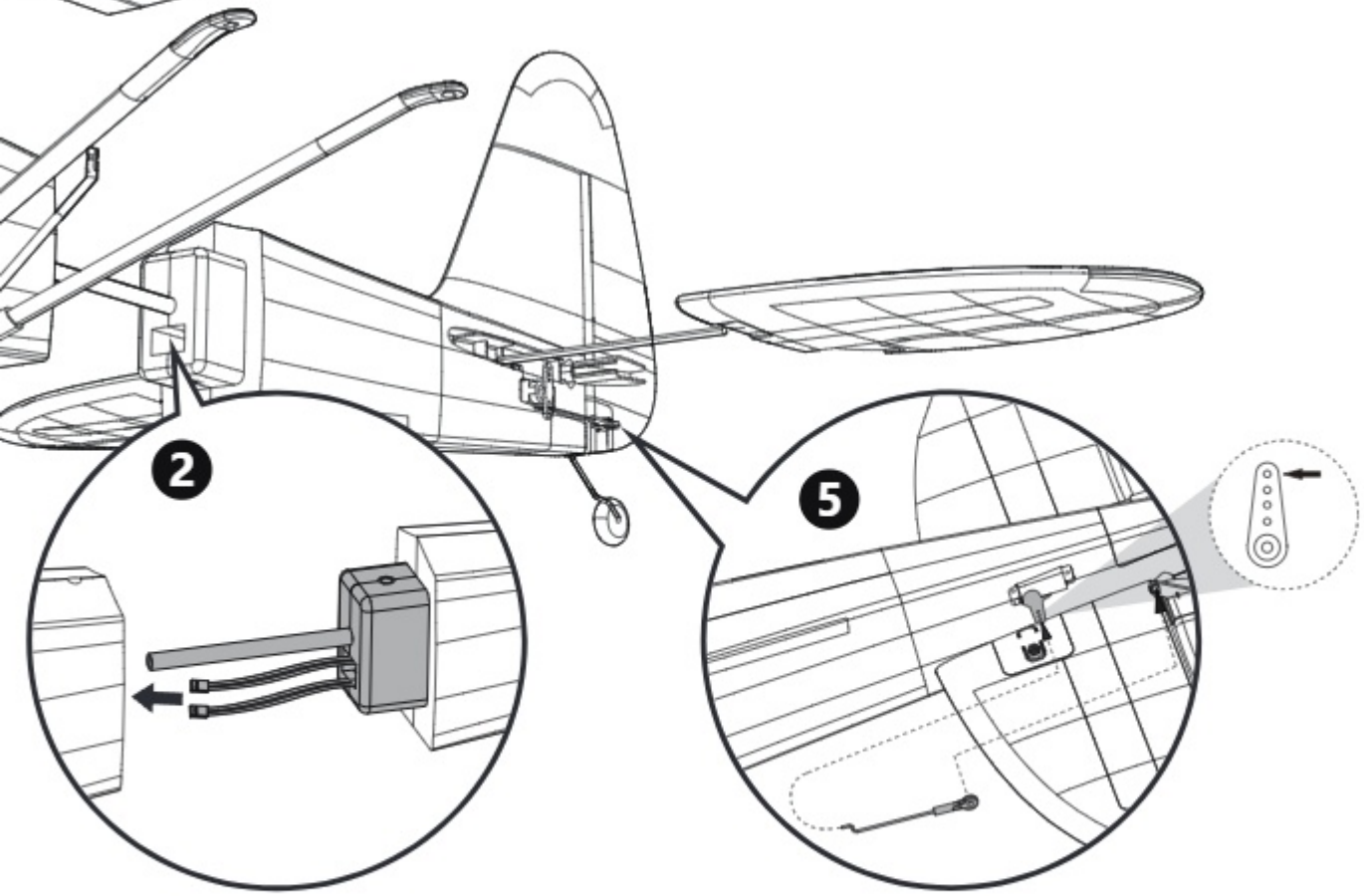
1. Insert the wing tube into the fuselage. Install both wings on the wing tube and push them against the fuselage after routing the AIL, FLAP, and LIGHT leads into the fuselage as shown. Secure the wings using the included screws.



3.Secure the landing gear and wing struts to the fuselage with the included screws and tabs. Install the tension springs as shown.



4.Secure the supporting struts on the main wing using the included R-clips.

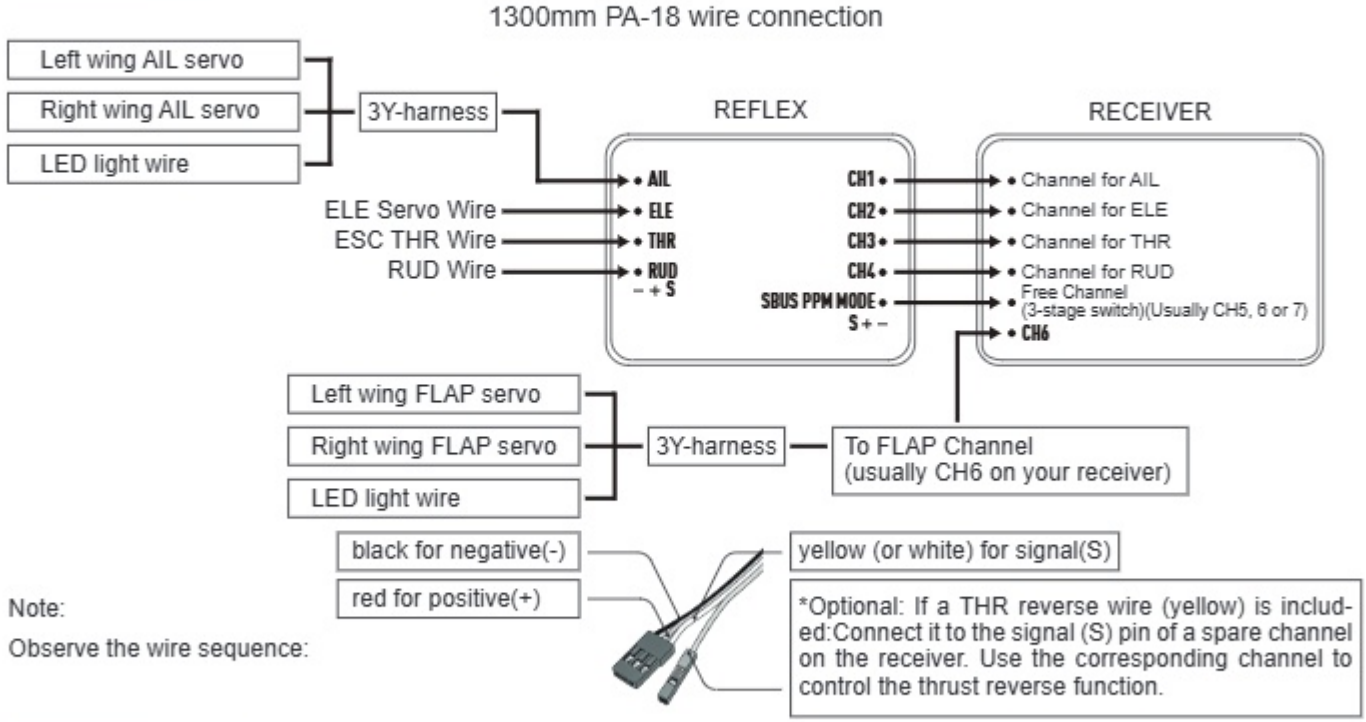


2. Route the RUD and ELE servo leads into the front fuselage. Secure the rear fuselage with both screws at the top and bottom.

5.Make sure the servo is in the neutral position. Install the elevator pushrod from the elevator servo to the elevator control horn as shown.

Step 2: Core Assembly and Wiring

Electronic Components Wiring

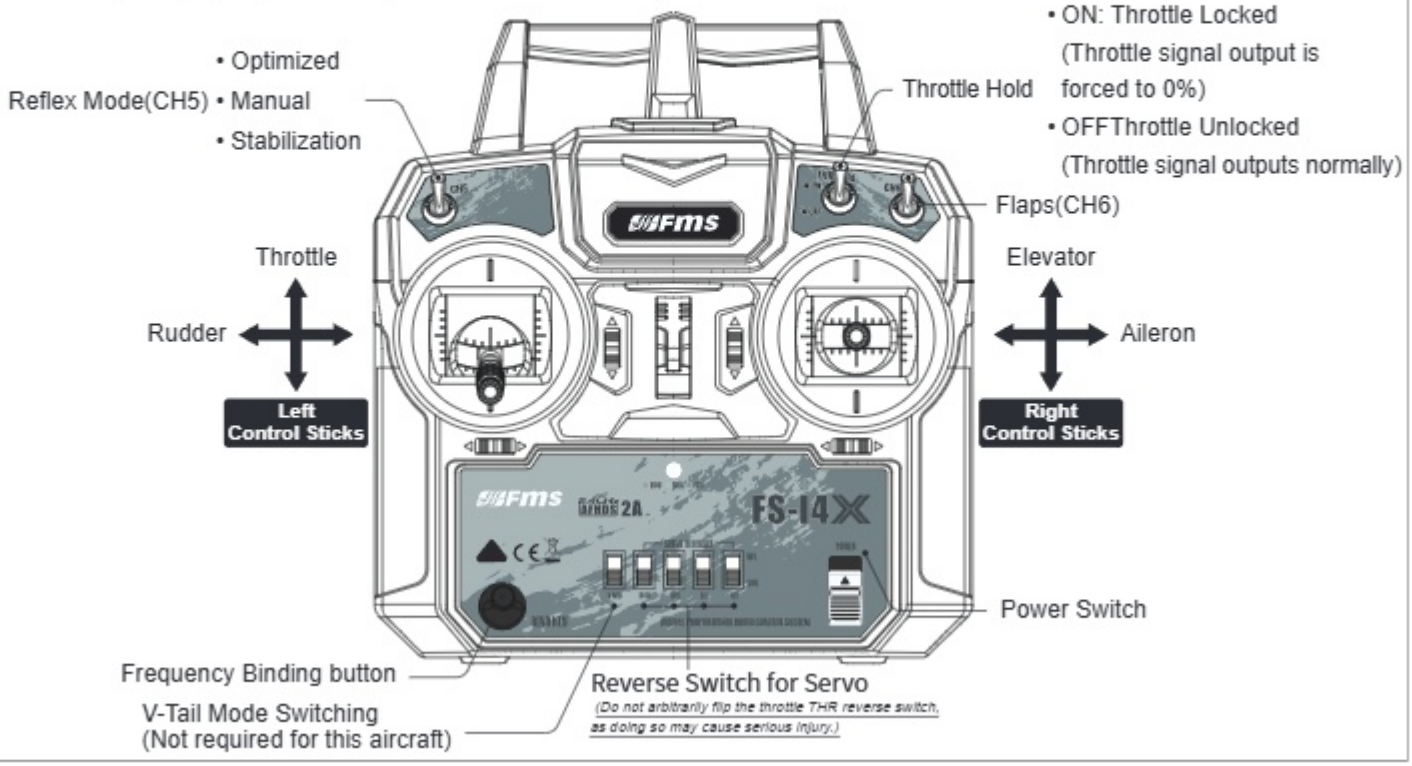


Reflex Orientation Check

*Note:
The Reflex is pre-installed at the factory.
This diagram is for reference only.

Step 3: Transmitter and Aircraft Power-On Procedure (RTF)

Note: This step is critical for safe flight. If you are new to RC aircraft, strictly follow the instructions below. Remember, RC aircraft are not toys! Improper operation may result in serious consequences.

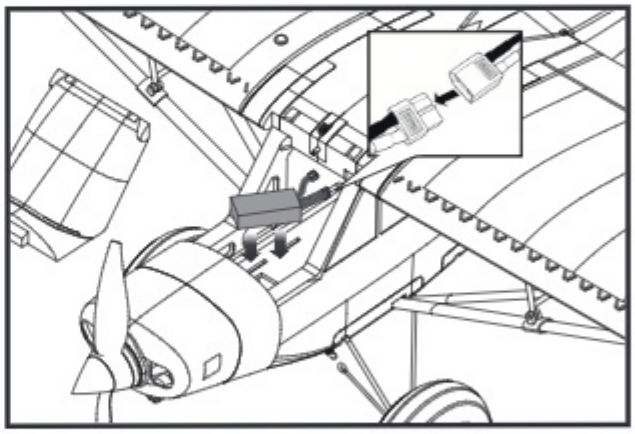


Step 3: Transmitter and Aircraft Power-On Procedure (RTF)

Transmitter Power-On

1. Install 4 AA batteries into the transmitter.
2. Turn on the transmitter power and keep the throttle at the lowest position.
3. Ensure the Throttle Hold is in the ON position.

Install the power battery



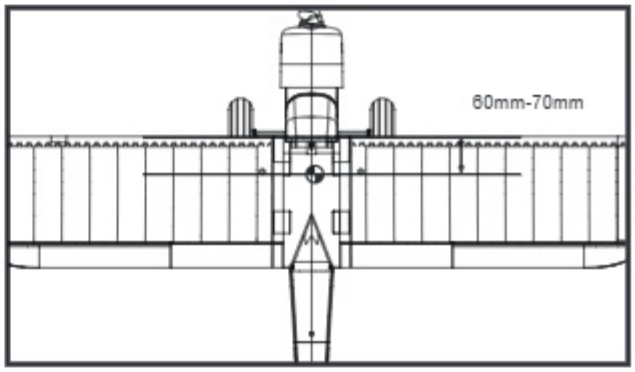
4. Open the fuselage hatch, secure the battery in its designated position using Velcro or straps, connect the battery plug (XT60) to the ESC,and place the aircraft on the ground.

The aircraft will power on. After several seconds, the Reflex and ESC begin self-testing and emit several beeps.

The Self-check process is now complete.

Note: RTF aircrafts are pre-bound by the factory.
Usually, you don't need to bind the receiver again.

Center of Gravity

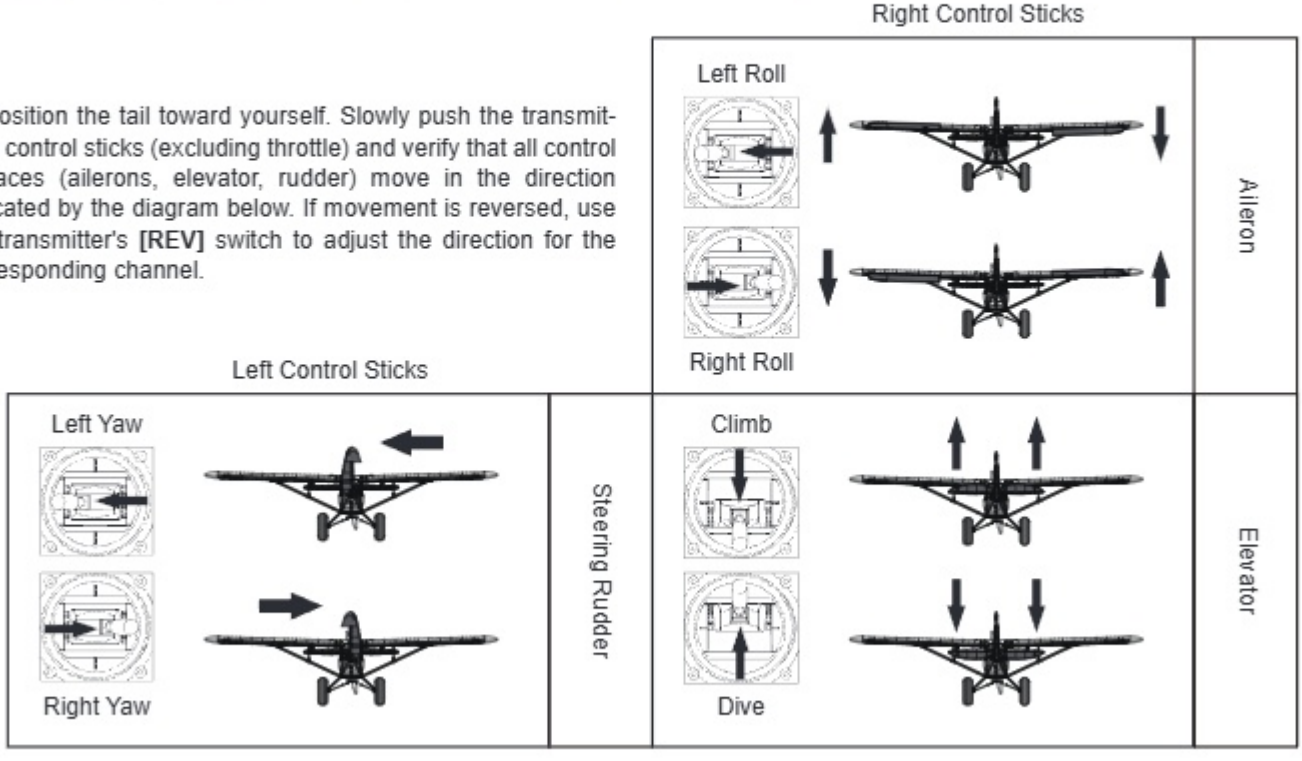


5. As shown, the recommended center of gravity position for the maiden flight is 60-70mm from the leading edge of the main wing with the battery pack installed.

After the maiden flight, you may adjust the center of gravity according to your personal piloting preferences.

Control Surface Direction Check ← [This step is critical!]

6. Position the tail toward yourself. Slowly push the transmitter's control sticks (excluding throttle) and verify that all control surfaces (ailerons, elevator, rudder) move in the direction indicated by the diagram below. If movement is reversed, use the transmitter's **[REV]** switch to adjust the direction for the corresponding channel.

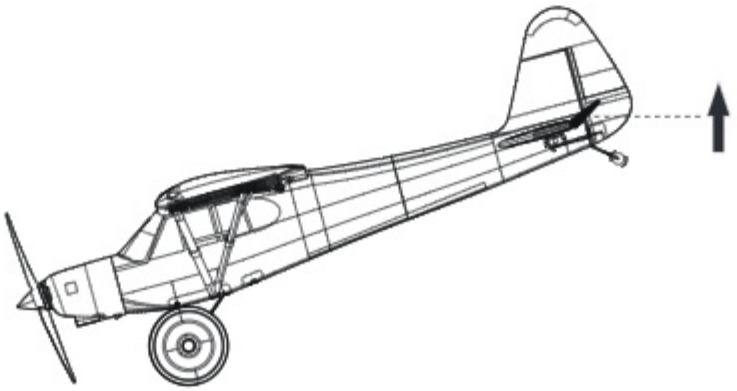


Step 3: Transmitter and Aircraft Power-On Procedure (RTF)

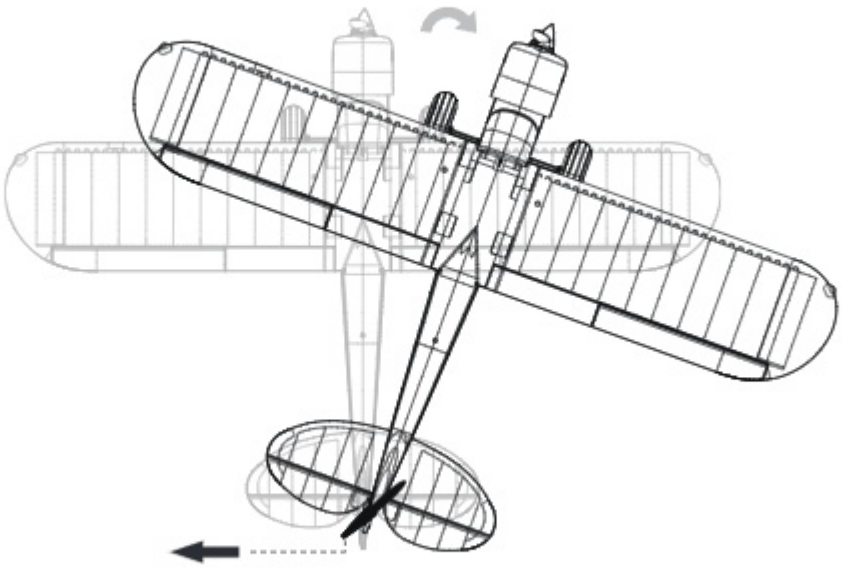
Flight Mode Check

7. Flip the flight mode switch (CH5) to the stabilization position, then move the aircraft as shown in the diagram to verify the Reflex 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.

Step 3: Transmitter and Aircraft Power-On Procedure (RTF)

Throttle Test

**Note: Never test the throttle with the propeller attached indoors, to prevent dangerous accidents.*

8. If testing indoors, always remove the propeller.

9. Set the Throttle Hold to the OFF position, slowly push the throttle. The throttle should respond promptly, and the propellers should rotate clockwise(viewed from the tail). After inspection, set the throttle to the lowest position and return the throttle hold to the ON position.

After testing, disconnect power from both the aircraft and transmitter.

***Note: The power-off sequence: Disconnect aircraft battery first, then turn off transmitter.**

Step 4: First 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 3. Flight area must be clear of people, buildings, and power lines.
- ☐ Structure: Verify all structural components—screws, connecting rods, struts, etc.—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.
- ☐ Reflex Correction Direction: All control surfaces correct in the correction direction.
- ☐ Center of Gravity: Center of gravity falls within the recommended range.
- ☐ Throttle Hold Function : Normally.
- ☰ ***Note:** It is recommended to develop a thorough pre-flight check habit before every flight.

Encountering Issues?

Control Surfaces Reversed?	→	Adjust the corresponding channel in the transmitter's **[Servo Reverse]** menu.
Binding Failed?	→	Please refer to the **[Binding and Calibration]** section in the full transmitter manual.
Any Other Questions?	→	The complete PDF manual is your best resource!

Scan for Complete Manual

Visit our official website for more information:

Official Product Details Page

Aircraft Specifications

Assembly Videos

Flight Demonstration Video

Enjoy your flights!

FMSHOBBY

Official website: www.fmshobby.com

Technical support: support@fmsmodel.com

警告 ⚠

警告: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。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。

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。

⚠ 禁止十四岁以下儿童操作、飞行。

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。

- 请勿在发射器电池低电量的情况下操纵模型飞机。
- 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、大雪或者其他恶劣气象环境下飞行。
- 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)。
- 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。
- 请勿将电子件暴露于潮湿的环境中,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。

锂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。
- 禁止使用变形、胀气的锂聚合物电池。
- 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。
- 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。
- 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。
- 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。

  飞机电池充电警告:

  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。

感谢购买1300mm PA-18!跟随这份快速指南的步骤,将帮助您在最短时间内完成组装与调试,尽情享受飞行乐趣。

注:更详细的安装、设置与安全须知,请务必扫描封面的二维码查阅完整版电子说明书。

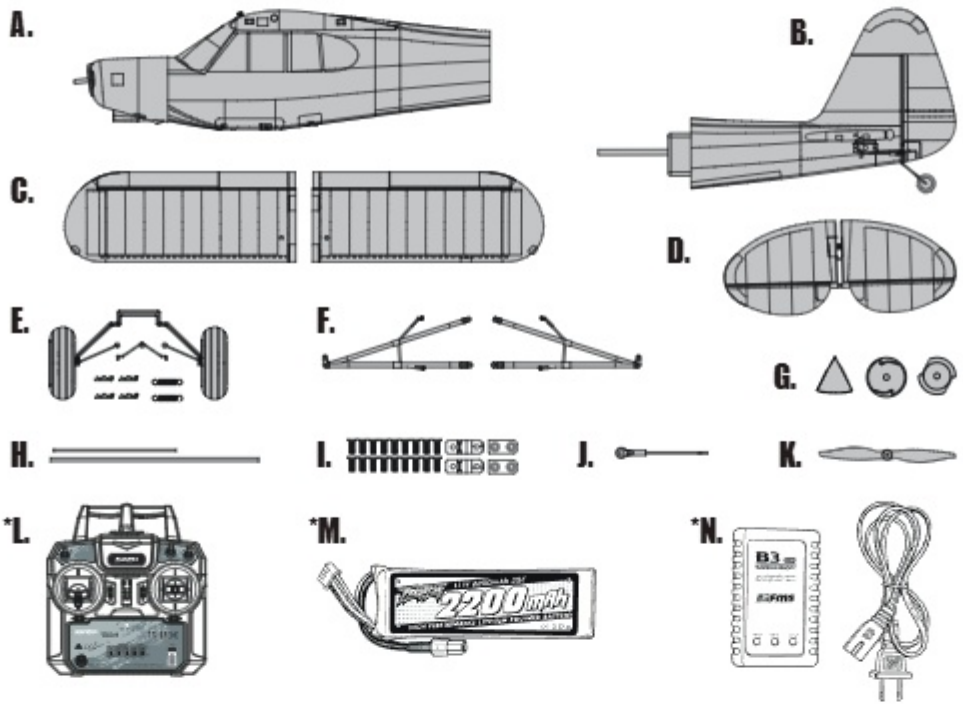
组装工具指导:2mm 内六角螺丝刀(需自备),用于紧固螺丝。

第一步:零部件检查

产品组成

在组装产品之前,请仔细检查以下配件,如有缺失或者损坏,请及时联系销售门店或者邮件至厂家(support@fmsmodel. 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
翼展: 1300mm (51.2in)
机身长: 986mm (38.8in)
飞行重量: ~ 1450g
电机: 3536-KV850
翼载荷: 48g/dm^2 (0.096oz/in^2)
翼面积: 30dm^2 (464.7sq.in)
电调: 40A
舵机: 9g x 6
推荐电池: 11.1V 2200mAh 25C



A:前机身 D: 平尾 G: 桨罩 J: 连接钢丝 *M: 动力电池

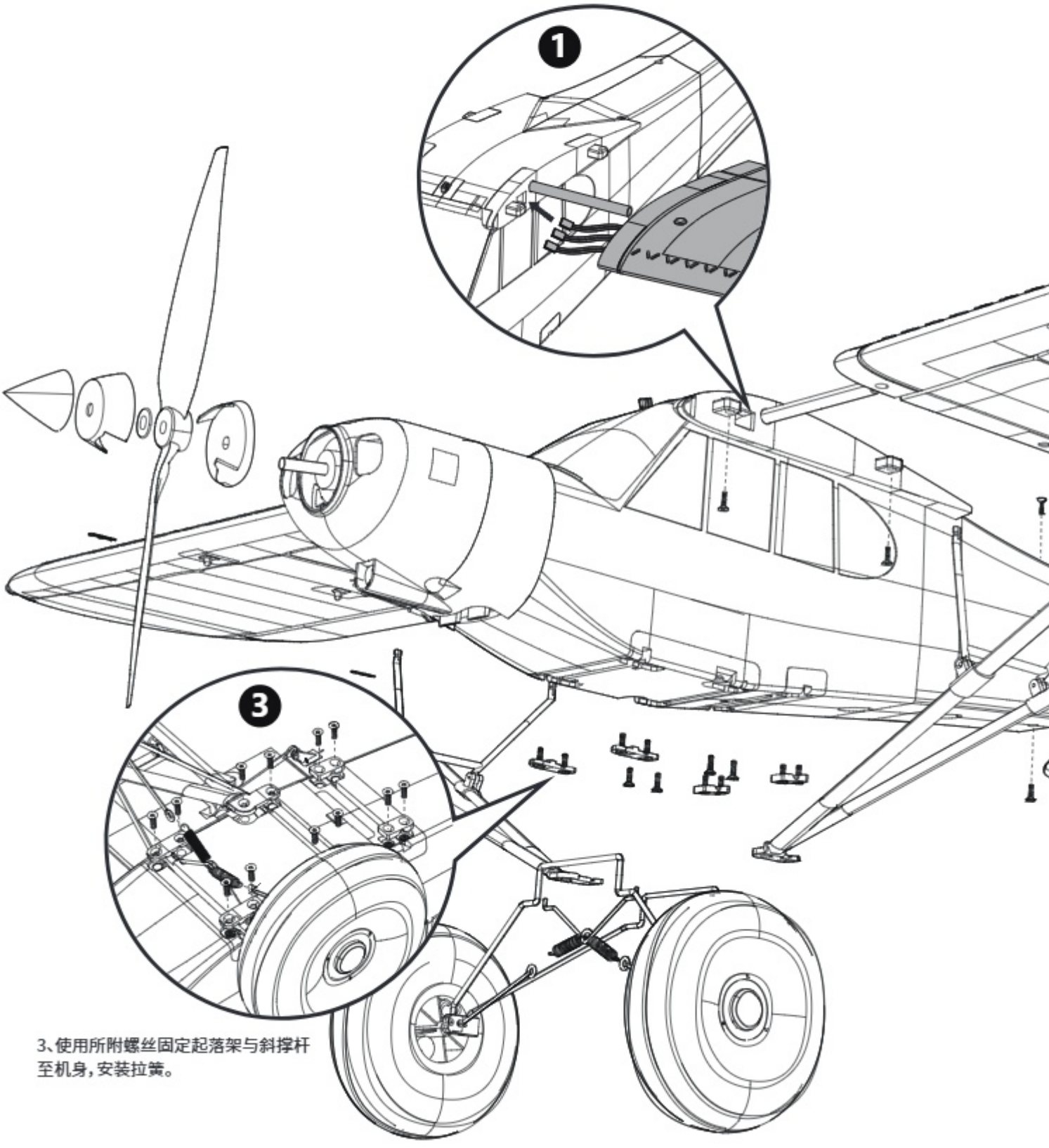
B:后机身 E: 前起落架组 H: 对接管 K: 桨 *N: 充电器

C: 主翼 F: 支撑杆 I:螺丝组 *L: 遥控器(不含电池)

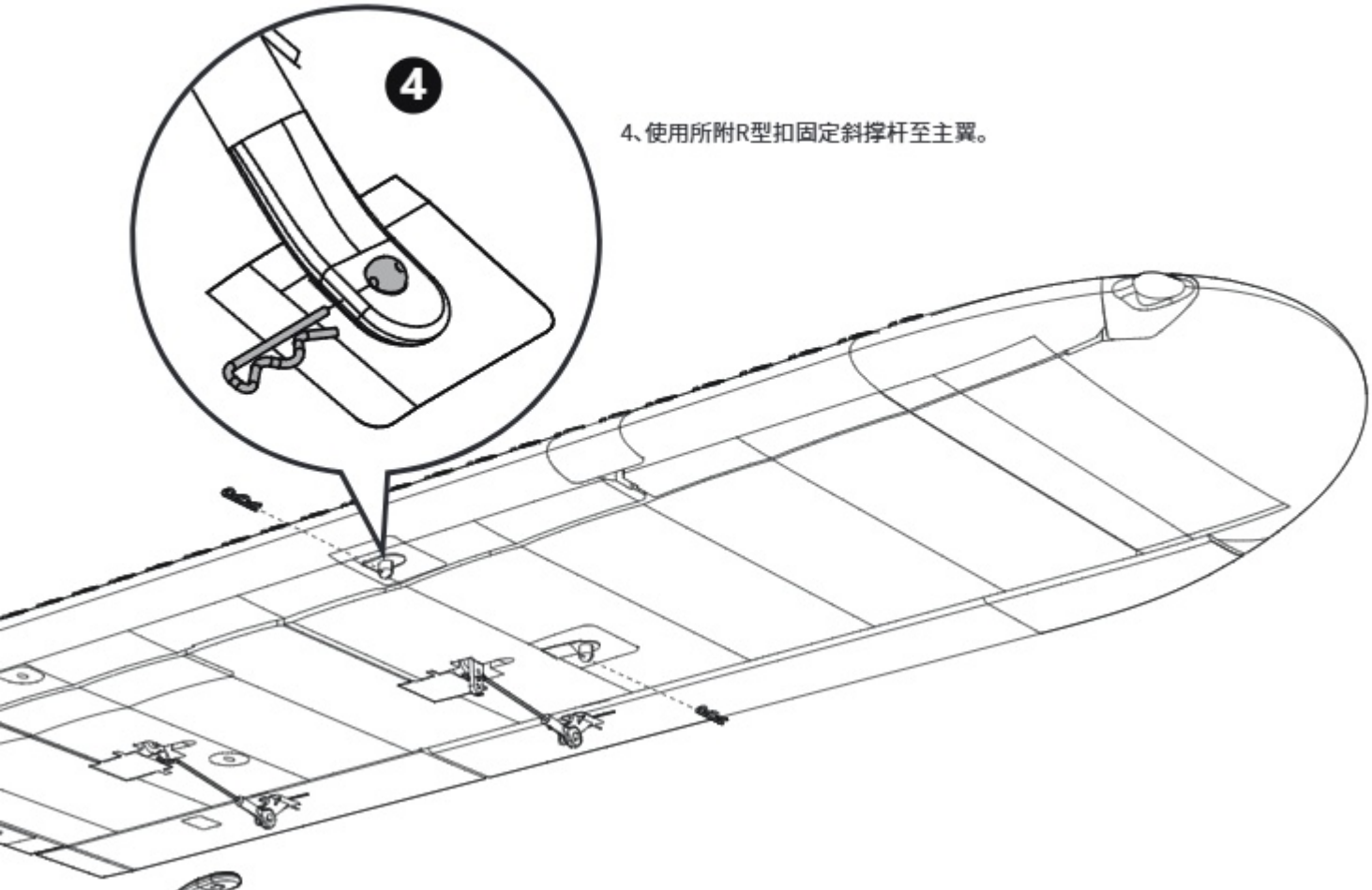
说明:标"*"表示RTF配置包含

第二步：核心组装和线材连接

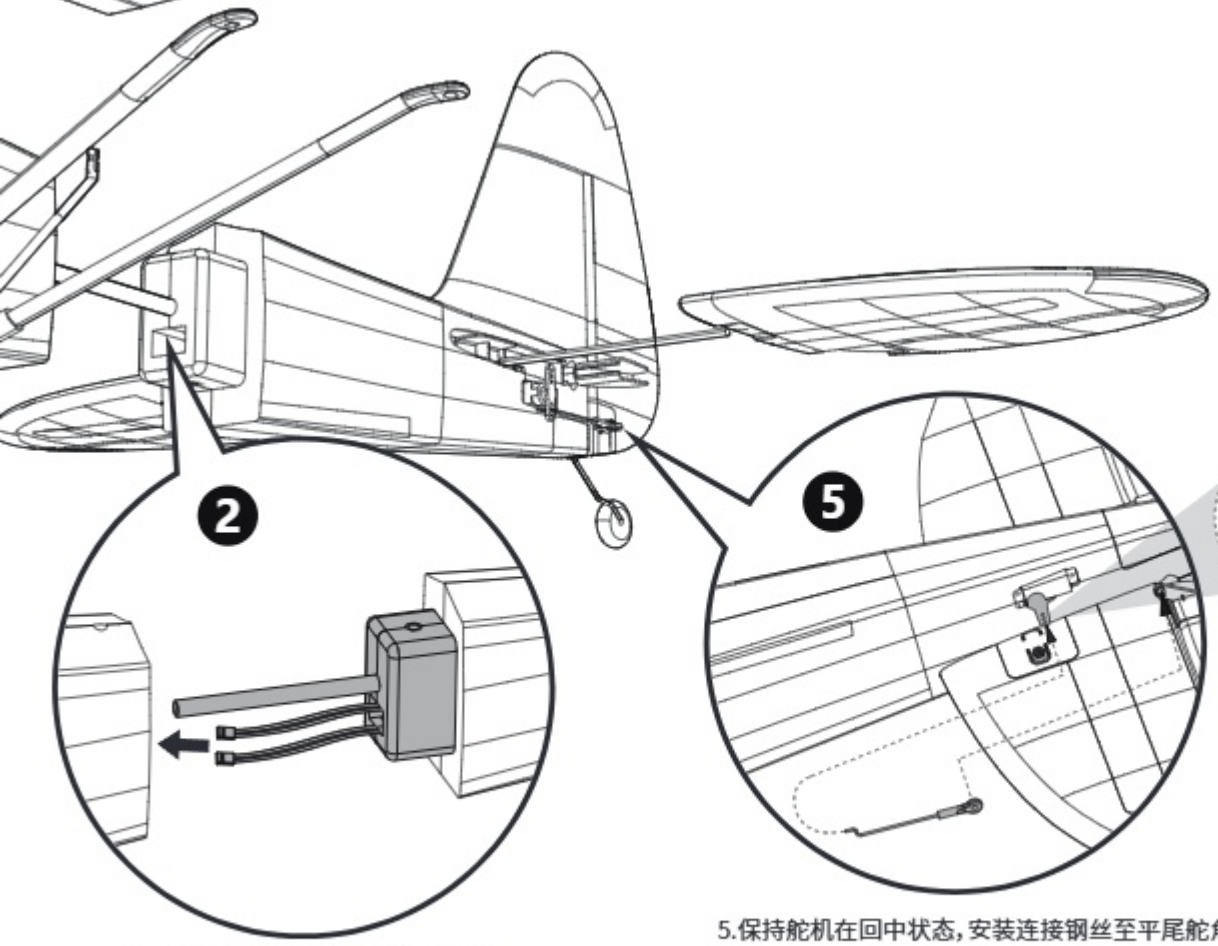
1、把对接管插入机身，安装左右两侧机翼，
并把AIL、FLAP、LIGHT线引入机身内，并上好螺丝。



3、使用所附螺丝固定起落架与斜撑杆
至机身，安装拉簧。



4、使用所附R型扣固定斜撑杆至主翼。



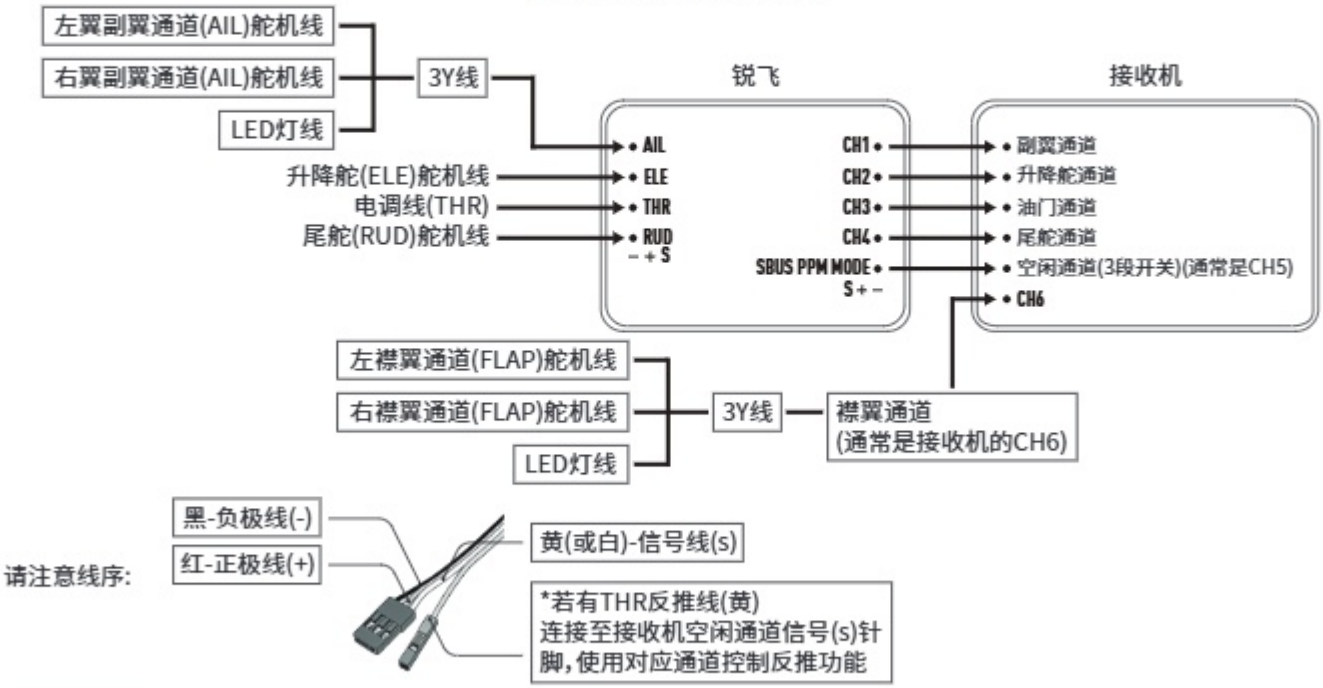
2、RUD和ELE舵机线引入前机身仓内，
并锁好上下两颗螺丝。

5.保持舵机在回中状态，安装连接钢丝至平尾舵角。

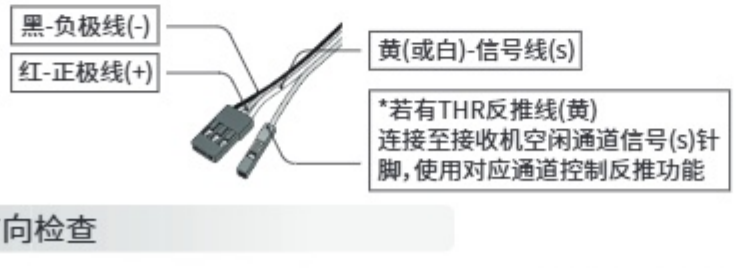
第二步:核心组装和线材连接

电子件接线方法

1300mm PA-18 接线图



请注意线序:

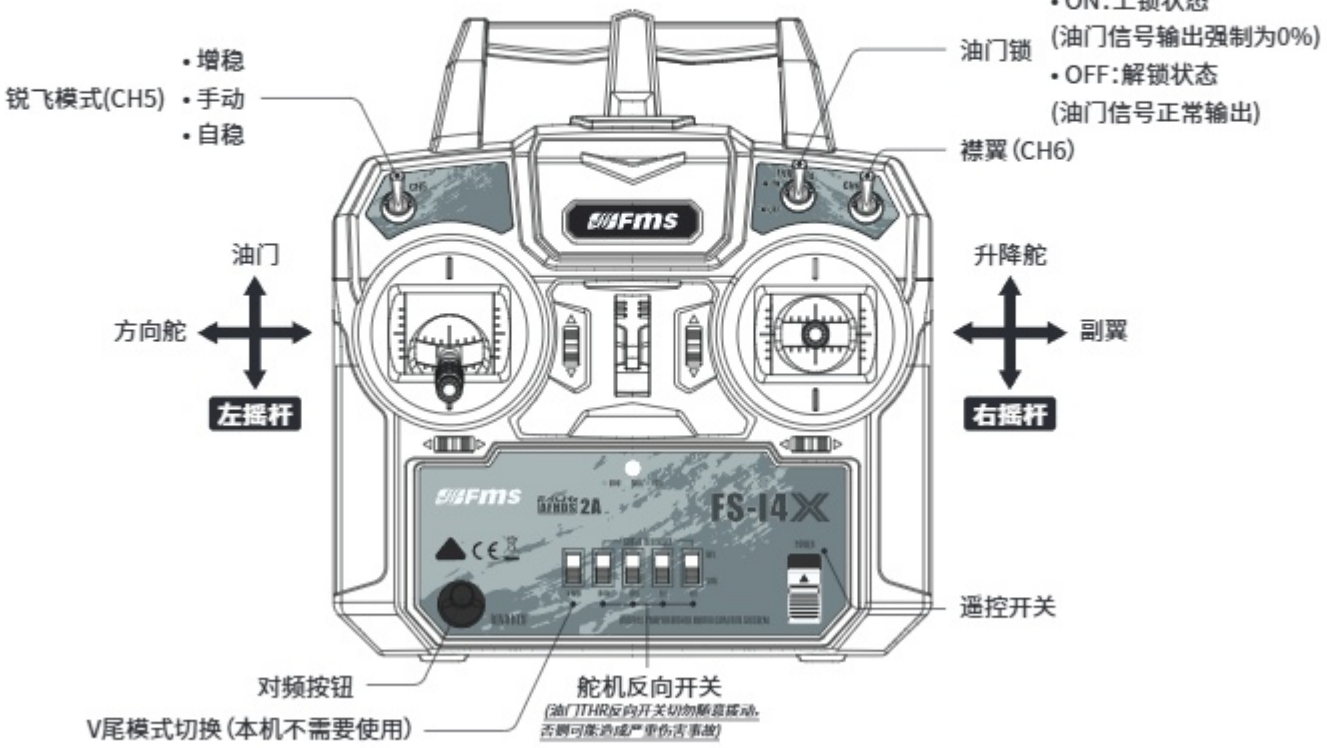


锐飞安装方向检查

*本机的锐飞出厂已经安装好,
此图仅供参考。

第三步:遥控器开机及飞机通电步骤(RTF版本)

注意:这一步对于安全飞行至关重要,若您是未接触过航模的新手,请务必严格按照以下步骤操作。请记住,航模不是玩具!
操作不当可能会造成严重后果。

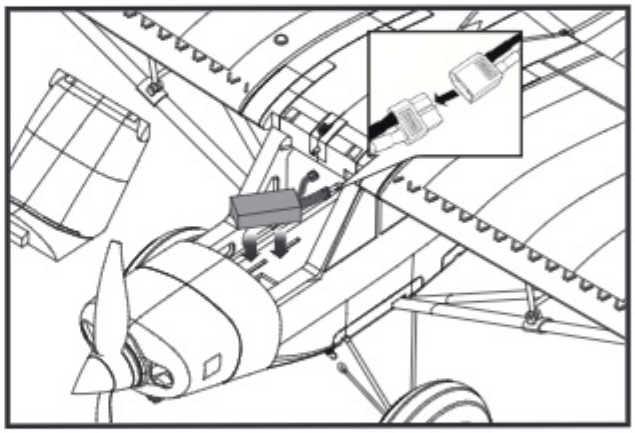


第三步：遥控器开机及飞机通电步骤（RTF版本）

遥控器开机

1.给遥控器安装4颗AA电池。
2.打开遥控器电源，并保持油门在最低位。
3.油门锁在ON的位置。

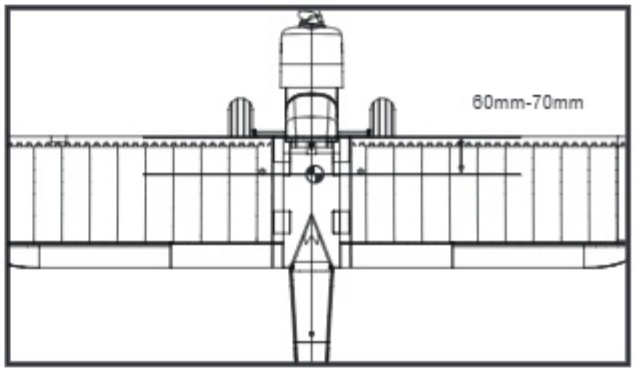
安装动力电池



4.打开机身舱盖，使用魔术贴或绑带将电池固定于指定位置，将电池插头（XT60）连接至电调，把飞机静置于地面。
此时飞机正常通电，数秒后，锐飞和电调开始自检并发出数次滴滴声，自检完成。

注：RTF飞机在出厂前已完成对频，通常情况下，不需要玩家再手动对频。

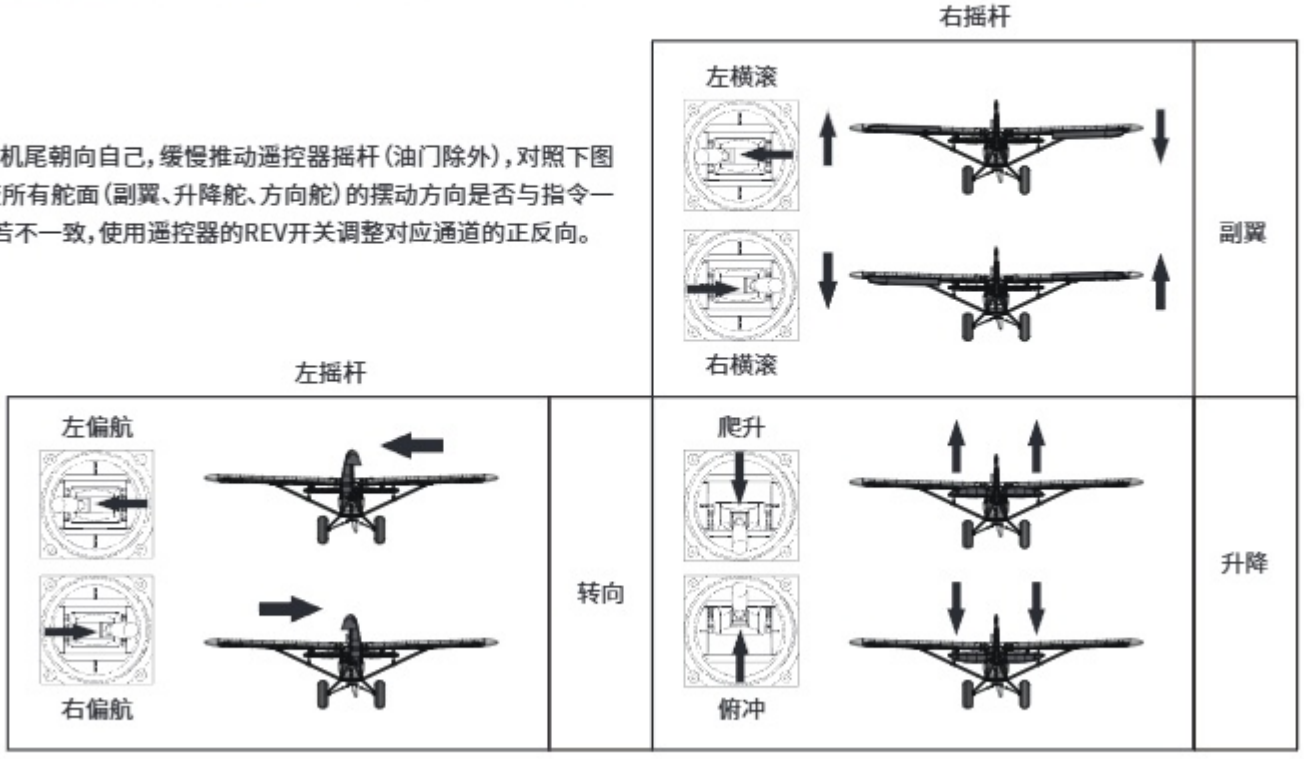
重心位置



5.如图所示，首飞推荐的重心位置是机翼前缘往后 60-70mm 处（安装电池以后）。
首飞后，可根据您的个人操作风格适当调整重心。

舵面方向检查 ← [此步骤至关重要!]

6.使机尾朝向自己，缓慢推动遥控器摇杆（油门除外），对照下图检查所有舵面（副翼、升降舵、方向舵）的摆动方向是否与指令一致。若不一致，使用遥控器的REV开关调整对应通道的正反向。

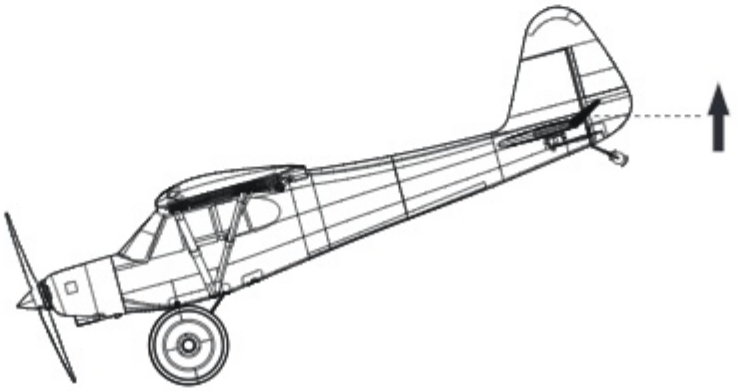


第三步：遥控器开机及飞机通电步骤（RTF版本）

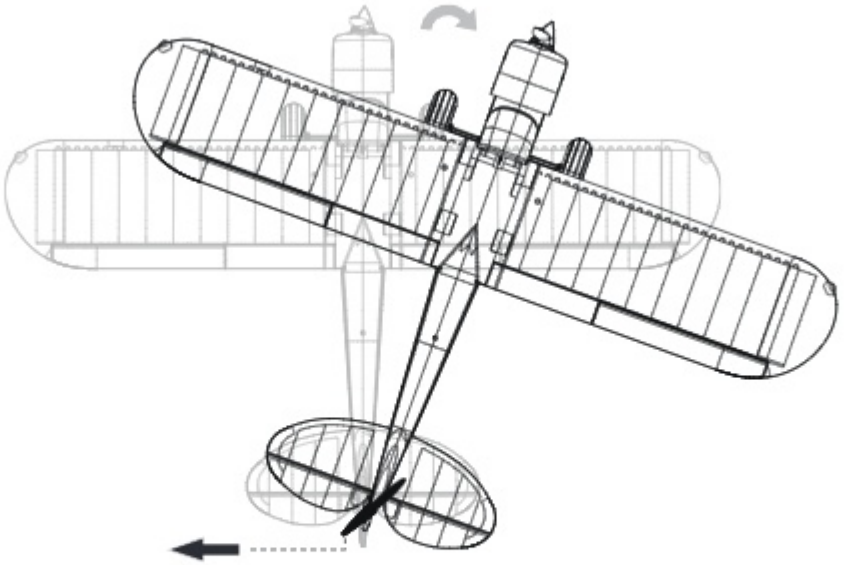
飞行模式检查

7. 拨动飞行模式开关（CH5）至自稳档，并按图示摆动飞机，确认锐飞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。

第三步：遥控器开机及飞机通电步骤（RTF版本）

油门测试（禁止在室内带桨测试，以防造成危险事故）

8.若您在室内测试，务必把螺旋桨取下。

9.将油门锁打到OFF位置，然后缓慢推动油门，油门响应及时，螺旋桨顺时针旋转（机尾视角）即可；检查完成后把油门打到最低，油门锁打回ON位置。

测试完毕，断开飞机和遥控器电源。**（关机顺序：先断开飞机电池，再关闭遥控器）**

第四步：首次飞行检查单

（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3级，飞行范围远离人群、房屋及高压线。

☐ 结构：确认螺丝，加强杆，斜撑杆等结构件安装紧固。

☐ 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（接收机指示灯常亮，舵面操控有响应）。

☐ 舵面检查：各舵面偏转方向正确。

☐ 锐飞修正方向：各舵面修正方向正确。

☐ 重心检查：重心在推荐范围内。

☐ 油门锁功能检查：正常。

☰ 建议每次飞行前都养成良好的检查习惯。

遇到问题？

舵面反向？ ⟶ 在遥控器“舵机反向”菜单中调整相应通道。

无法对频？ ⟶ 请查阅完整版遥控器说明书“对频与校准”章节。

其他任何疑问？ ⟶ 完整版PDF说明书是您最好的老师！

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