

A line drawing of a boat hull, showing the upper part of the hull and the transom. The drawing is minimalist, using only black outlines on a white background. The hull curves upwards from the bottom left towards the top right. A transom is visible at the top right, with a propeller shaft and a motor mount. The text is centered on the hull.

ESKY 300 V2

User Manual / 用户手册

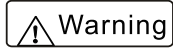
E_sky[®]

Languages 语言

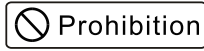
English	1-10
中文	11-20

Safety Precautions and Warnings

RC helicopter is controlled by radio signals. It may be interfered by other radio signals during operation. These interference may cause the helicopter lose control.



- 1. Improper operation to ESKY 300 V2 may lead to damage or loss. It is prohibited for children under 14 years to operate this product.
- 2. Keep it away from high temperature environment for storage and flight.
- 3. Suggested operation temperature: 5-35°C , Humidity: 20-80%.
- 4. Keep away from fan, air conditioner, table light while flying.
- 5. Do not contact the motor in case of damage or injury.



- 1. Keep away from crowds in case of accidents.
- 2. Do not operate ESKY 300 V2 in shower room or under rain. Moisture may go inside the helicopter which may cause electronic parts malfunction and unexpected incident.
- 3. Do not re-equip, upgrade or repair your helicopter with unauthorized parts.
- 4. Keep people and objects away from the spinning unit and parts in case of damage or injury.

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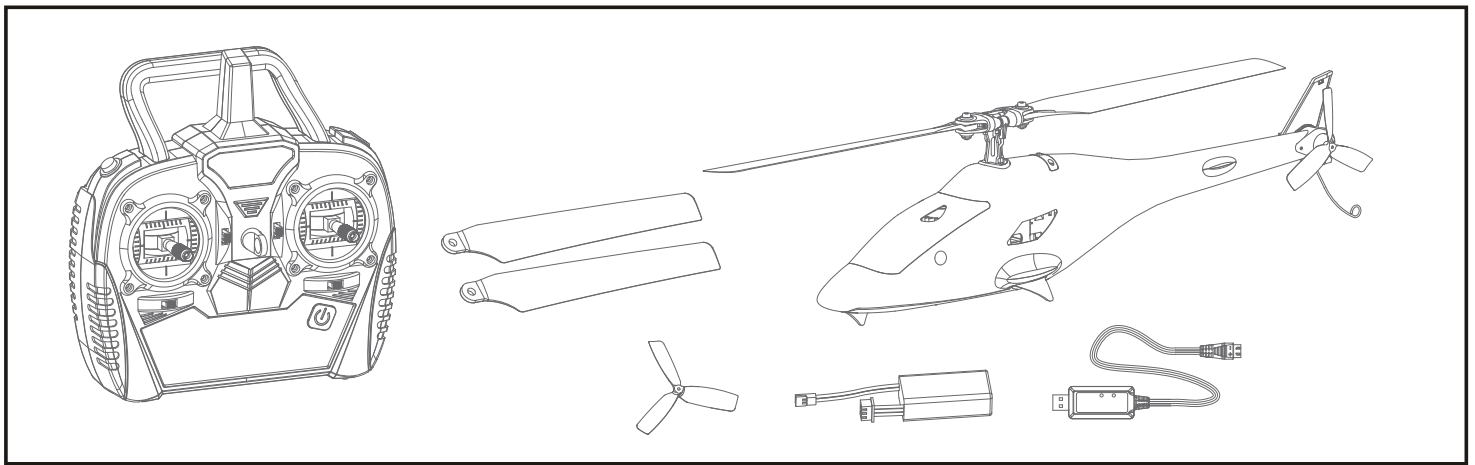
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Specifications

Length	310mm	Tail Rotor Diameter	55mm
Height	88mm	Flying Weight	123g
Main Rotor Diameter	332mm	Flight Time	7 Minutes

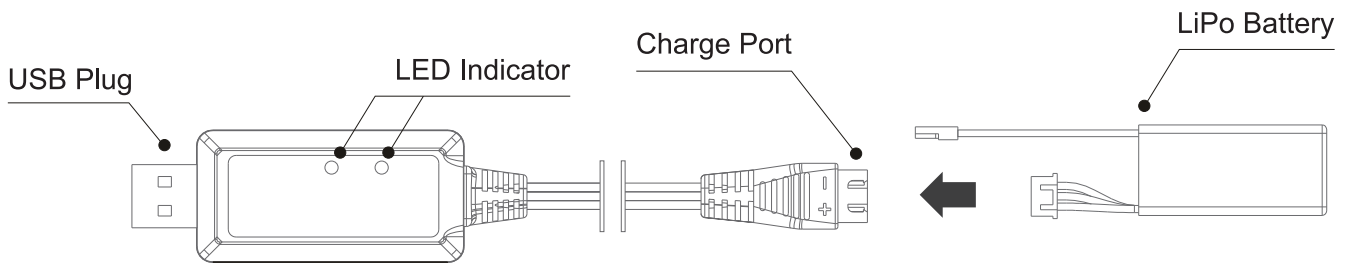
Box Contents

- | | |
|----------------------------------|---|
| 1 x ESKY 300 V2 Helicopter | 1 x 2.4GHz Transmitter |
| 1 x 320mAh 2S 7.4V Li-Po Battery | 4 x AA Size Alkaline Batteries (Not Included) |
| 1 x USB 2S Li-Po Charger | 2 x Main Blade, 1 x Tail Blade |



Battery Charging

- 1) Insert the 7.4V 2S LiPo Battery into the charger and insert the charger into the USB port or a USB power supply.
- 2) The LED on the charger glows solid red and blinking green, indicating charging has begun.
- 3) When the LiPo Battery is fully charged, the LED glows solid red and solid green.



Red Solid and Green Blinking LED: Charging
Red and Green Solid LED: Charging Complete
Red Solid LED: Power Connected (Stand By)

Red Blinking LED Only: Battery Error
Red and Green Blinking LED: Charger Error
Red Blinking and Green Solid LED: Input (V) too high

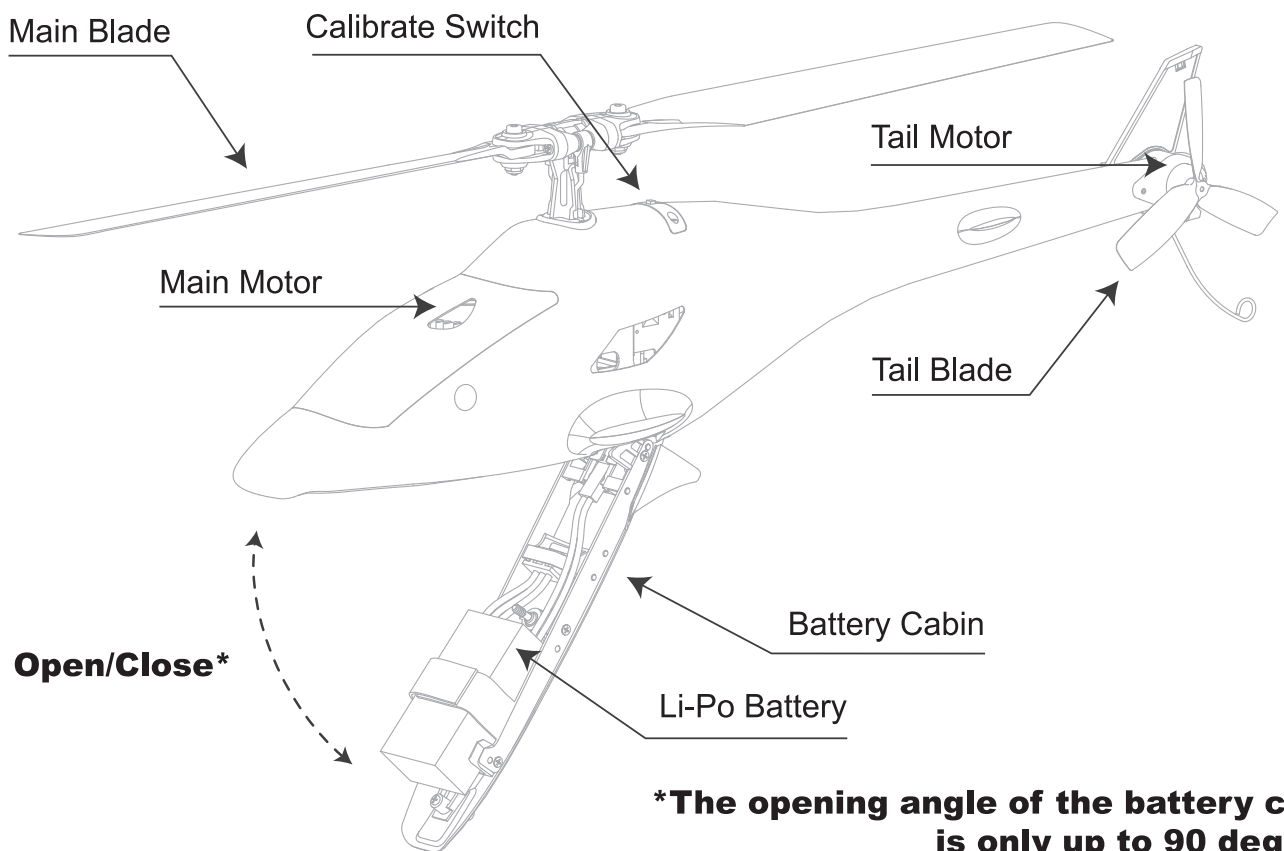
Flying Checklist

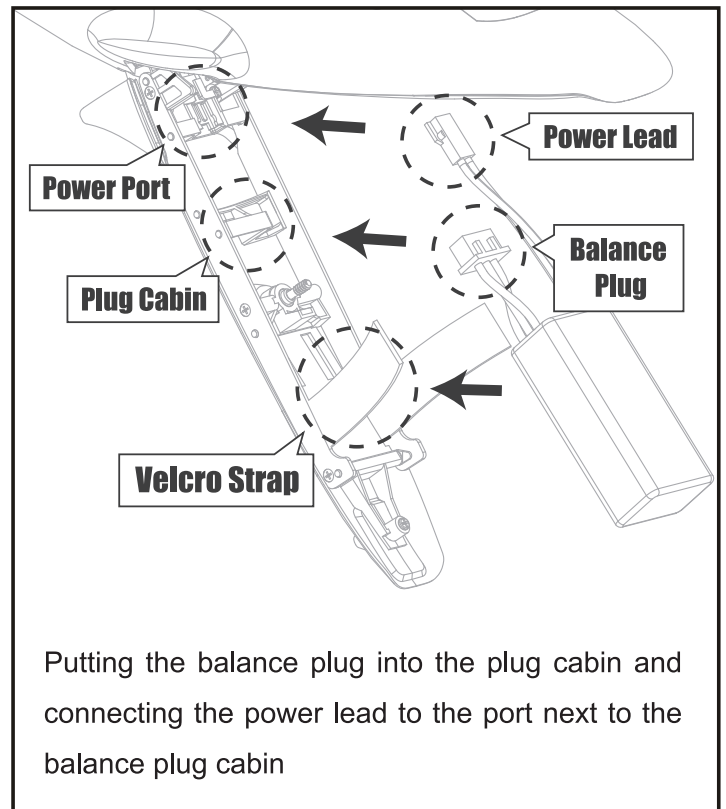
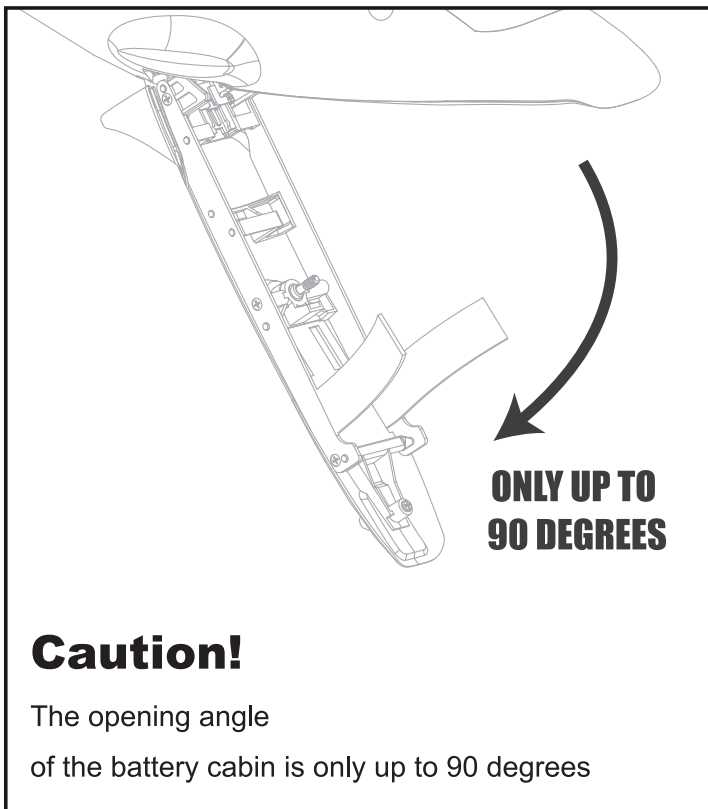
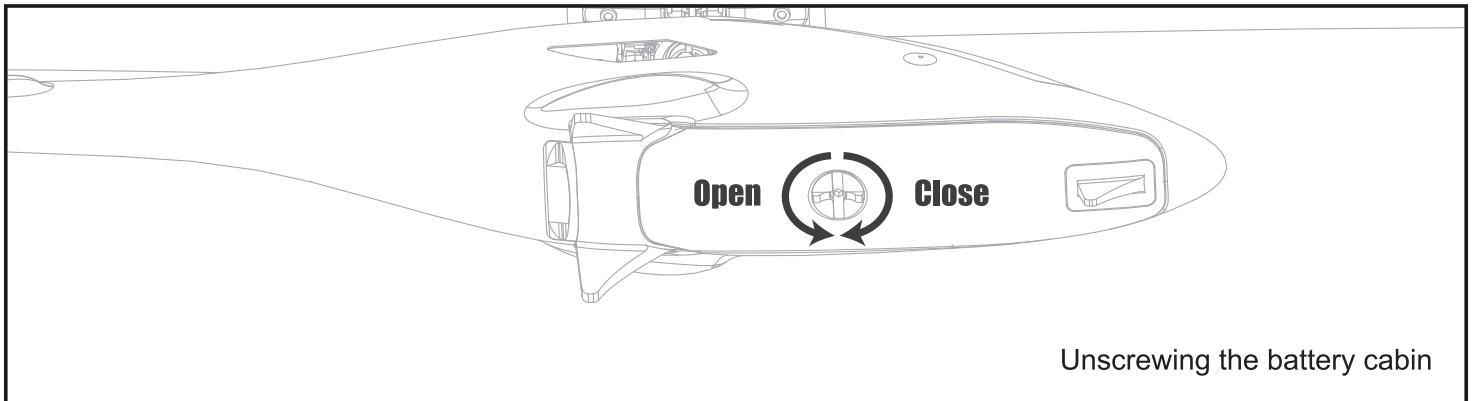
- Always turn the transmitter on first (4 x AA size alkaline batteries are required for the transmitter)
- Plug the flight battery into the helicopter
- Set the CALIBRATE switch in the helicopter to the GREEN dot position and place the helicopter on a level surface
- Lower the throttle stick to the lowest position in the transmitter and set the THROTTLE CUT switch in the transmitter to the GREEN dot position (The motor will control by throttle and spin at low idle speed)
- Fly the helicopter
- Green LED indicator in the helicopter being from solid to flashes slowly, indicating the flight battery voltage is low, Land the helicopter

NOTICE: Ensure set the THROTTLE CUT switch in the transmitter to the RED dot position then set the CALIBRATE switch in the helicopter to the RED dot position after every flight

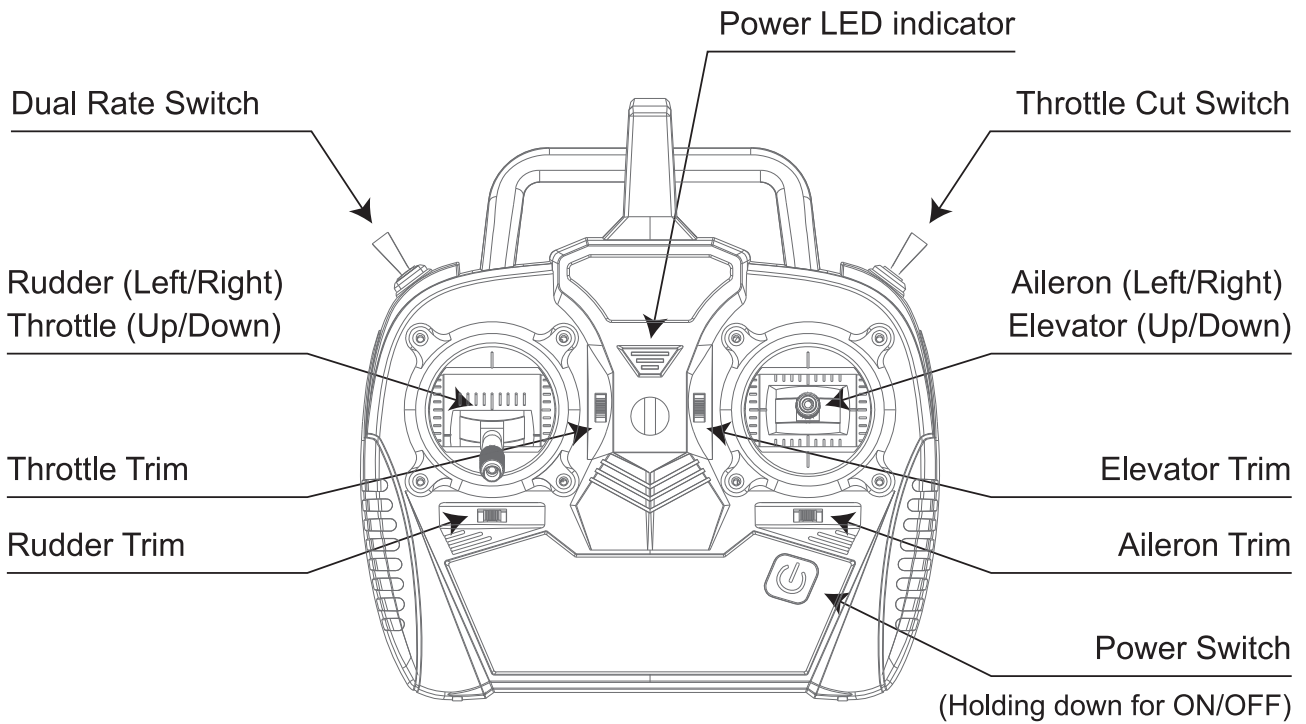
NOTICE: Allow the helicopter to initialize and place the helicopter on a level surface (Initialization time is about 10 seconds, initialize successfully until the LED Indicator in the helicopter from blue flashes rapidly to solid blue)

Helicopter Parts

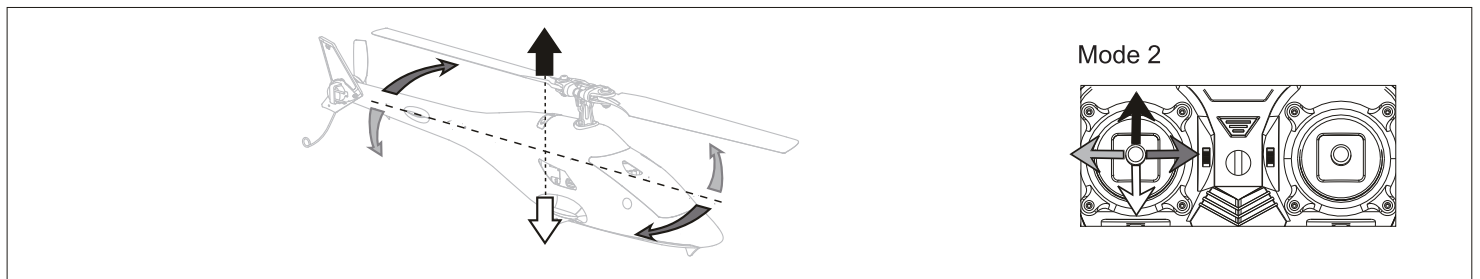




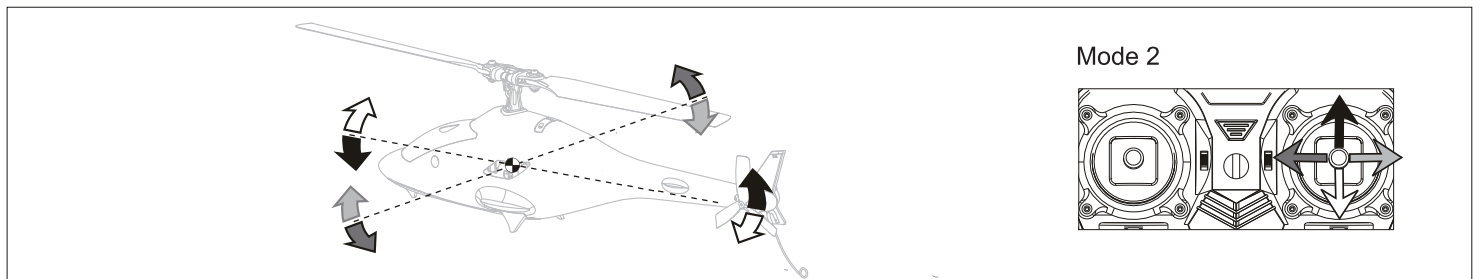
1. Unscrewing the battery cabin
(Caution: the opening angle of the battery cabin is only up to 90 degrees)
2. Installing the battery and fixing the battery with the velcro strap
3. Putting the balance plug into the plug cabin
4. Connecting the power lead to the port next to the balance plug cabin
5. Screwing in the battery cabin after closing it



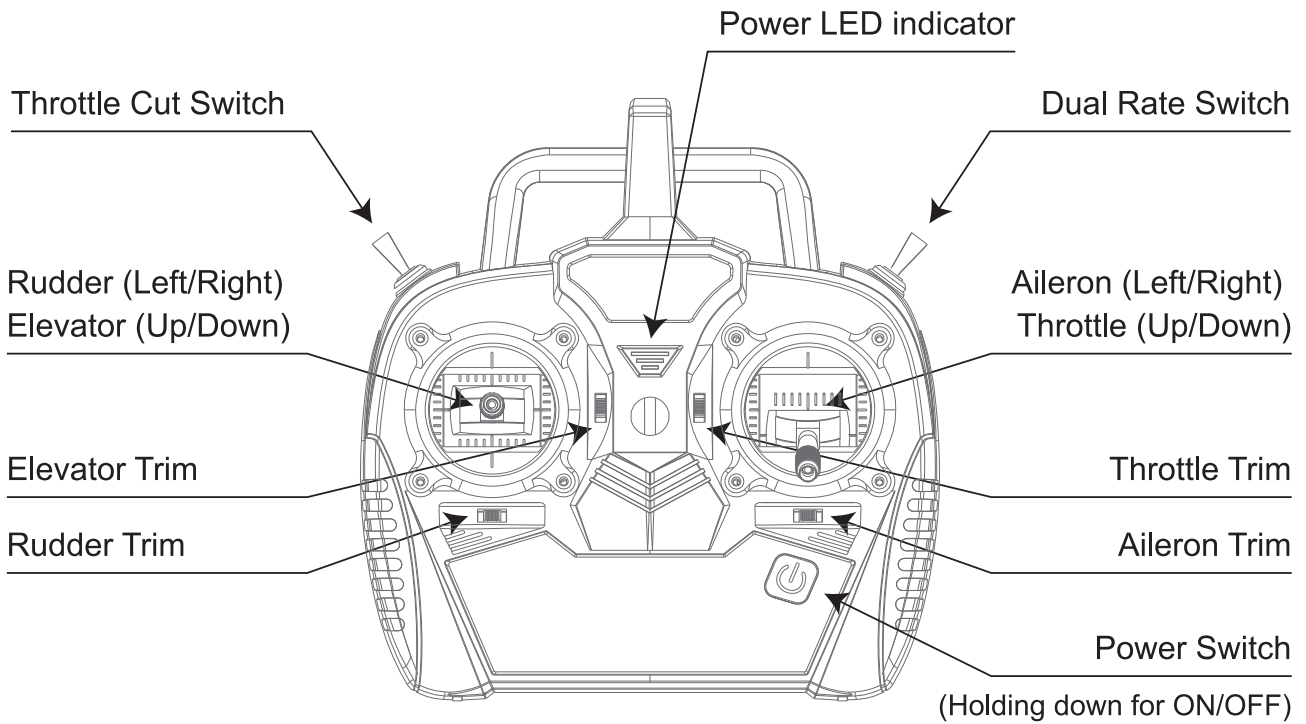
Understanding the Primary Flight Controls Mode 2



When pushing the "Left Stick" up or down, the helicopter lift up or descend accordingly; This procedure is Throttle control.
 When pushing the "Left Stick" left or right, the head of the helicopter turns left or right accordingly; This procedure is Rudder control.



When pushing the "Right Stick" up or down, the helicopter moves forward or backward accordingly; This procedure is Elevator control.
 When pushing the "Right Stick" left or right, the helicopter tilts left or right accordingly; This procedure is Aileron control.



Understanding the Primary Flight Controls Mode 1

Mode 1

When pushing the "Right Stick" up or down, the helicopter lift up or descend accordingly; This procedure is Throttle control.
 When pushing the "Left Stick" left or right, the head of the helicopter turns left or right accordingly; This procedure is Rudder control.

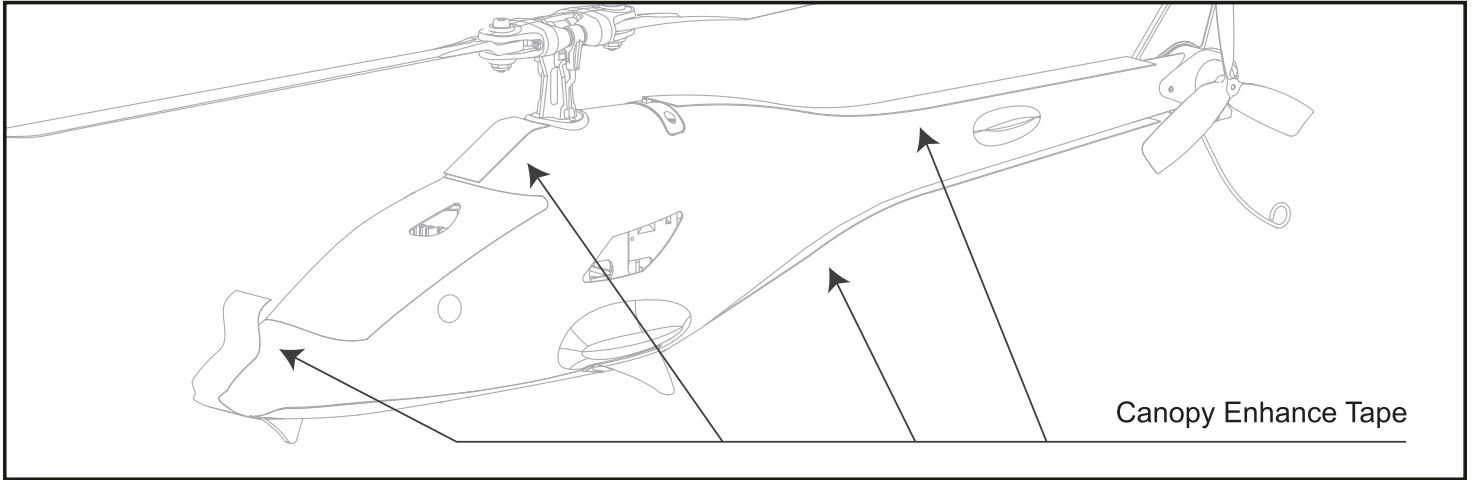
Mode 1

When pushing the "Left Stick" up or down, the helicopter moves forward or backward accordingly; This procedure is Elevator control.
 When pushing the "Right Stick" left or right, the helicopter tilts left or right accordingly; This procedure is Aileron control.

Canopy Enhance Tape

The canopy is a fragile parts, a spare Enhance Tape is inside the box for repairing when the canopy cracked. Applying the Enhance Tape to the place where the canopy is bonded as the diagram.

Applying the Enhance Tape before usage, it can strengthen the canopy and reduce the destructiveness.



Throttle Cut

Throttle Cut is used to turn off the motor quickly if the helicopter is out of control. The motor will stop spinning and out of throttle control when Throttle Cut is switched to RED dot position, the motor will continue to spin at low idle speed and control by throttle when Throttle Cut is switched to GREEN dot position and the throttle at the lowest position. If Throttle Cut is switched to GREEN dot position and the throttle position is **NOT** at lowest throttle, the motor will still spin at low idle speed but out of throttle control until the throttle moves to the lowest throttle.

Dual Rate Selection

The control sensitivity can be changed by set the Dual Rate switch HI and LO. When flying with Low Rate(LO) outdoor under windy weather and encounter control difficulty, you can use High Rate(HI).

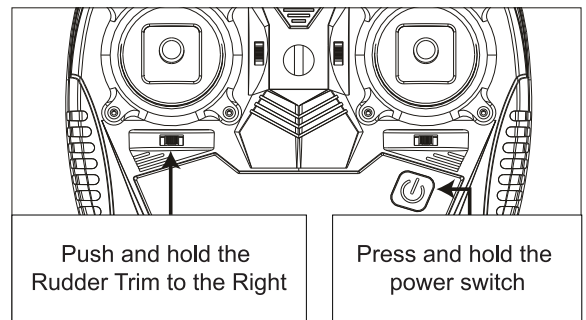
Transmitter and Receiver Binding

1) Power off the transmitter and power on the helicopter, the condition green LED in the helicopter flashes rapidly in a short period of time.

2) Push and hold rudder trim to right and power on the transmitter.

3) When the condition green LED from helicopter is light up which implies the binding is completed, release the rudder trim button.

(Helicopter was completely binded in the factory setting.)



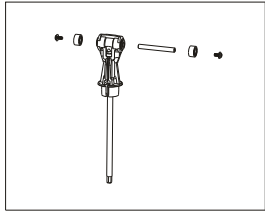
Low Voltage Warning (Transmitter)

The blue power LED indicator flashes slowly when the transmitter battery voltage gets low. Replace the transmitter battery as soon as possible to prevent affecting normal operation.

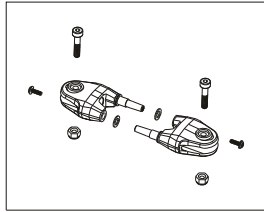
When the blue power LED indicator flashes slowly with beeps during flight, Land the model and replace the transmitter battery immediately. Failure to do so could result in destruction of the model and possibly bodily injury!

Maintenance Tool

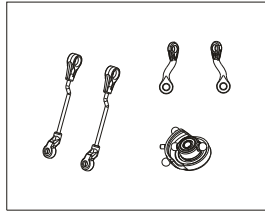
Please use the provided screwdriver to install all the screws. Other tools can damage the screw and the helicopter.



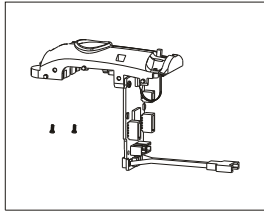
ESKY007996
Main Rotor Housing



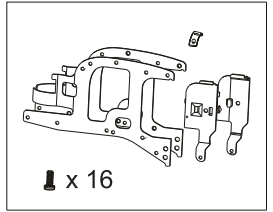
ESKY007997
Main Rotor Blade Grip Set



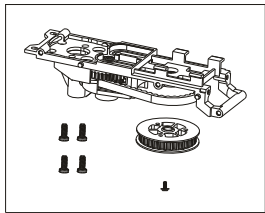
ESKY007998
Swashplate Set



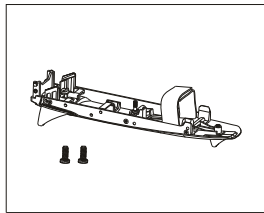
ESKY007949
Multi Control Unit



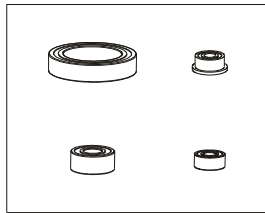
ESKY008000
Main Frame



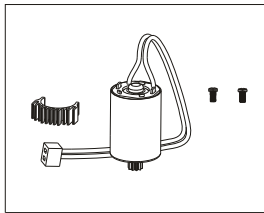
ESKY008001
Transmission Component



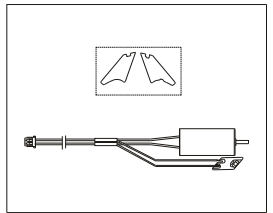
ESKY008002
Battery Cabin



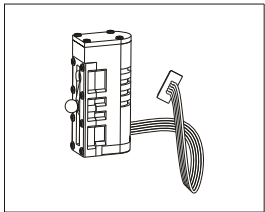
ESKY008003
Bearing Set



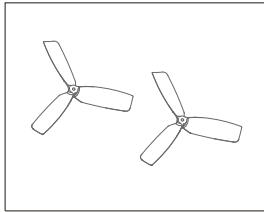
ESKY007950
Main Motor



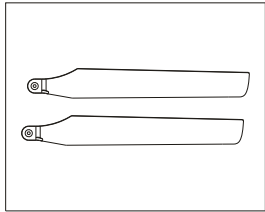
ESKY007951
Tail Motor with LED



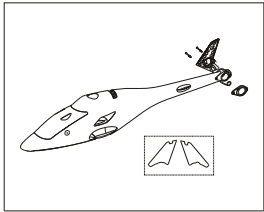
ESKY008004
Linear Servo



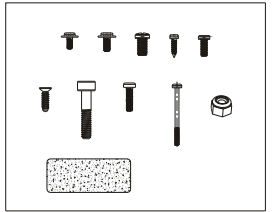
ESKY008005
Tail Blade



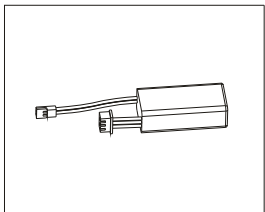
ESKY008006
Main Blade Set



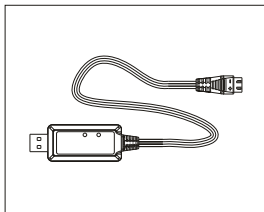
ESKY008007
Fuselage



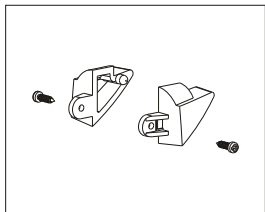
ESKY008008
Screws Set



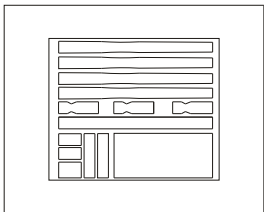
ESKY005867
Li-Po Battery



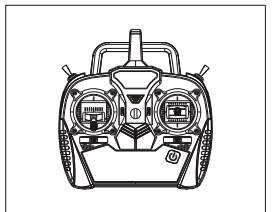
ESKY005907
USB Charger



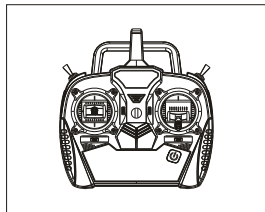
ESKY007999
Light Guide



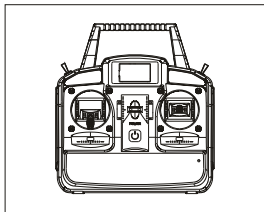
ESKY008447
Canopy Enchance Tape



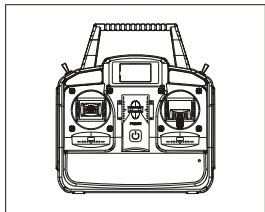
ESKY008083
MINI 6X Transmitter (M2)



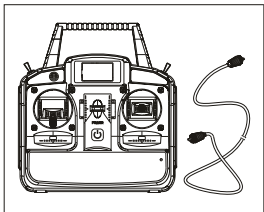
ESKY008083a
MINI 6X Transmitter
(Mode1)



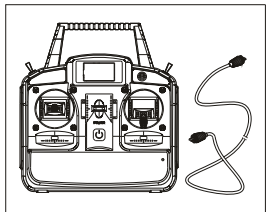
ESKY008085
ECH6 Transmitter
(Mode2)



ESKY008085a
ECH6 Transmitter
(Mode1)



ESKY008575
ECH6 Trainer Transmitter
(Mode2)



ESKY008575a
ECH6 Trainer Transmitter
(Mode1)

Troubleshooting Guide

Problem: Battery bulge after several flight

Possible Cause: Keep the helicopter spinning when it can no longer be raised or over discharge the battery or long time not in use

(Solution: Replace a new battery)

Problem: Green LED in the helicopter flashes slowly in flight

Possible Cause: LiPo battery low voltage (Solution: Recharge the LiPo battery)

Problem: Green LED in the helicopter flashes rapidly

Possible Cause: Helicopter in Binding Mode (Solution: Power off transmitter and repeat bind process)

Problem: Green LED in the helicopter goes off and blue LED in the helicopter glows solid

Possible Cause: Helicopter do not receive any signal from transmitter (Solution: Rebind or reboot the transmitter)

Problem: Green LED and blue LED in the helicopter goes off

Possible Cause: Battery connection error or battery damaged (Solution: Reconnect the battery or change the new battery)

Problem: Green LED in the helicopter glows solid and blue LED in the helicopter goes off

Possible Cause: Helicopter Calibrate Function not activate (Solution: Set the Calibrate Switch to GREEN in the helicopter)

Problem: Motor do not spin after Initialize successfully but servo works normally

Possible Cause: Throttle Cut Function is activated (Solution: Set the Throttle Cut Switch to GREEN in the transmitter)

Problem: Helicopter skewed slightly in flight

Possible Cause: Incorrect trim value (Solution: Maintain the helicopter level flight by adjusting the trim button)

Problem: Helicopter vibrates or shakes in flight

Possible Cause: Main rotor blade grip or main blade bent (Solution: Check them for damage and replace if necessary)

Problem: Helicopter spin rapidly in flight

Possible Cause: Tail blade installation direction was wrong (Solution: reinstall the tail blade with correct installation direction)

Problem: Helicopter skewed heavily in flight

Possible Cause: Servo or linking parts error (Solution: Check each linking parts)

Possible Cause: Incorrect trim value in some direction (Solution: Set all the transmitter trim in the middle or neutral position)

Problem: How to Judge whether the transmitter trim is in the middle or neutral position?

Possible Cause: / (Solution: The middle or neutral trim position is heard as a longer tone)

直升机模型是通过无线电信号控制的，在操作时可能会受到其他无线电信号干扰，此干扰可能会影响直升机性能甚至会导致直升机失控。

警告

1. 此遥控模型具有一定的危险性，禁止14岁以下人士进行操作！
2. 不要将产品直接暴露在火或者对温度有影响的热源下。
3. 建议在5-35度，相对湿度20%-80%的环境中使用此产品。
4. 建议在没有风扇，冷气机，台灯或其他危险物件的地方操作此产品。
5. 电机为发热部件，请勿触摸，以免烫伤。

禁止

1. 飞行时要远离人群，避免旁人围观！以免误伤他人！
2. 直升机内部是由许多精密的电子零件组成，因此必须保证防潮防水，避免在浴室或雨雾天气时使用，以免水气进入机体内部导致机器零件或电子零件故障而引发不可预测的意外。
3. 请勿对直升机进行任何改装。
4. 直升机在飞行运转时禁止用手或其他物品触及直升机的任何部位！避免造成不必要损失及人身伤害！

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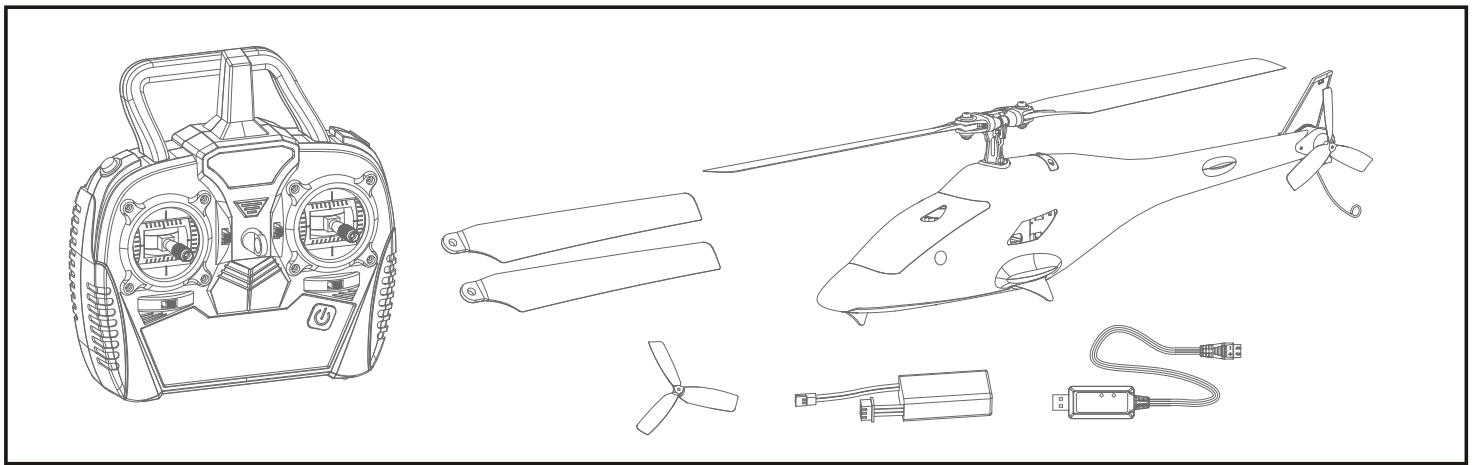
产品参数

CN

长度	310mm	尾旋翼直径	55mm
高度	88mm	飞行重量	123g
主旋翼直径	332mm	飞行时间	7分钟

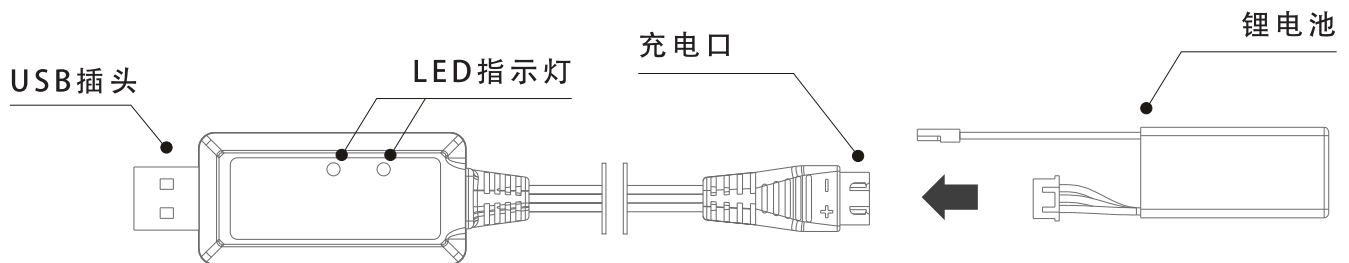
包装内容

1 x ESKY 300 V2 直升机	1 x 2.4GHz 发射机
1 x 320mAh 2S 7.4V 锂电池	4 x 5号碱性干电池 (不包含)
1 x USB 2S 锂电池充电器	2 x 主旋翼, 1 x 尾旋翼



飞行电池充电方法

- 1) 将7.4V 2S LiPo电池插入充电器，然后将充电器插入USB端口或USB电源。
- 2) 充电器上的红色LED灯常亮，同时绿色LED灯闪烁，表明充电已开始。
- 3) 电池充满时，红色和绿色LED灯都变为常亮。



红色LED灯常亮且绿色LED灯闪烁：正在充电
红色和绿色LED灯常亮：充电完成
仅红色LED灯常亮：电源已连接（待机）

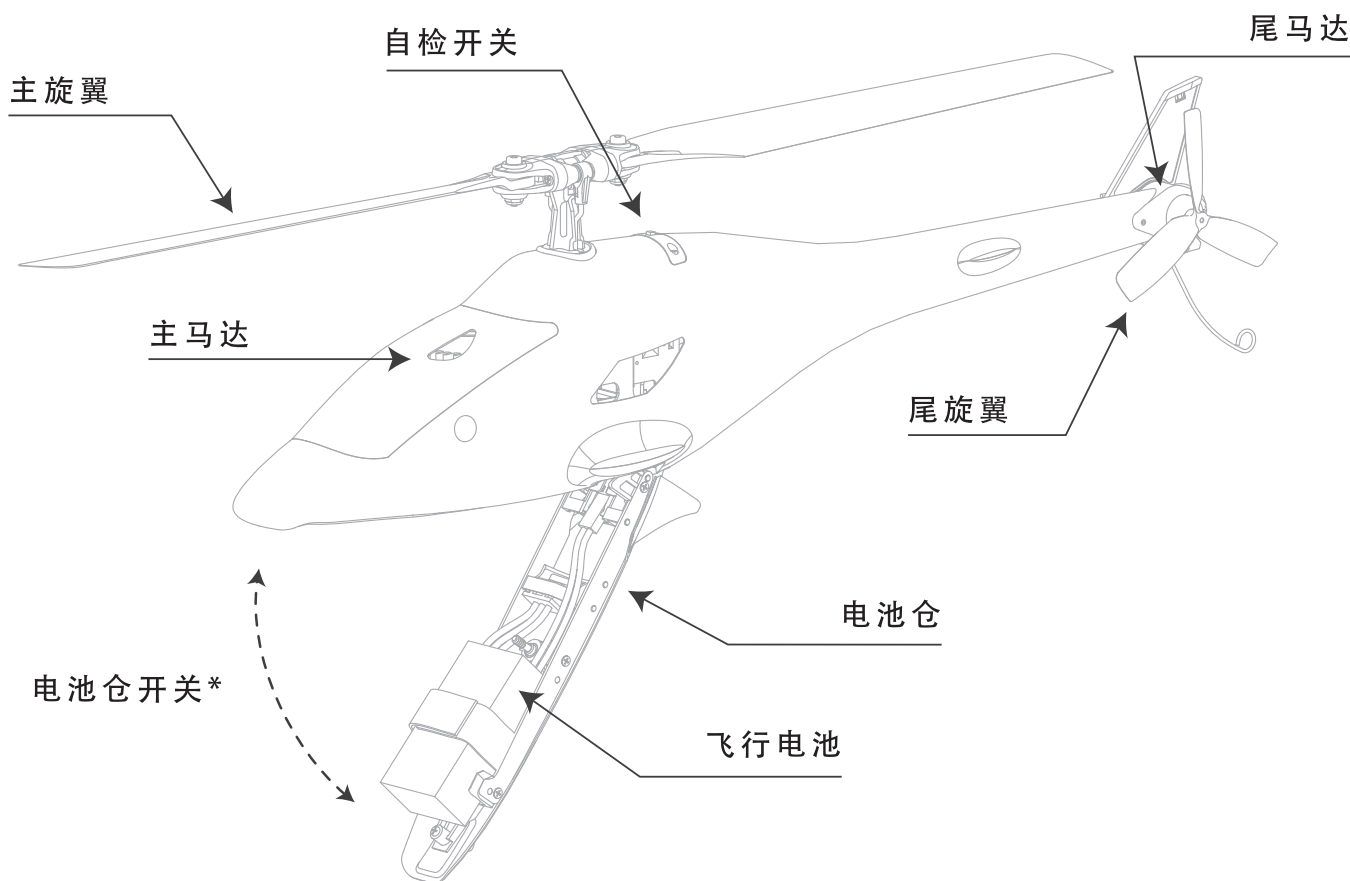
仅红色LED灯闪烁：电池异常
红色和绿色LED灯闪烁：充电器异常
红色LED灯闪烁且绿色LED灯常亮：输入电压过高

- 务必先打开发射机 (自备5号碱性干电池4节供发射机使用)
- 将飞行电池固定在直升机电池仓并接通
- 将直升机上的“自检开关”拨动到绿点位置然后将直升机放在水平表面上,等待直升机初始化完成
- 将发射机油门摇杆拉到最低位置后拨动“油门熄火开关”到绿点位置,主尾旋翼开始以很低的怠速转动
- 飞行直升机
- 当直升机上的绿色LED灯由常亮变为缓慢闪烁时表示直升机电池电压低,降落直升机

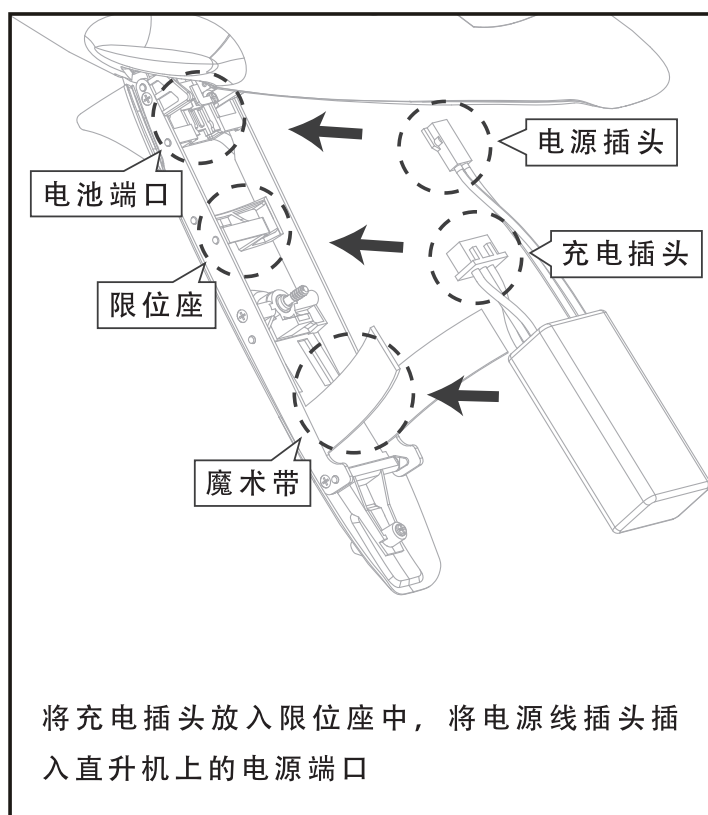
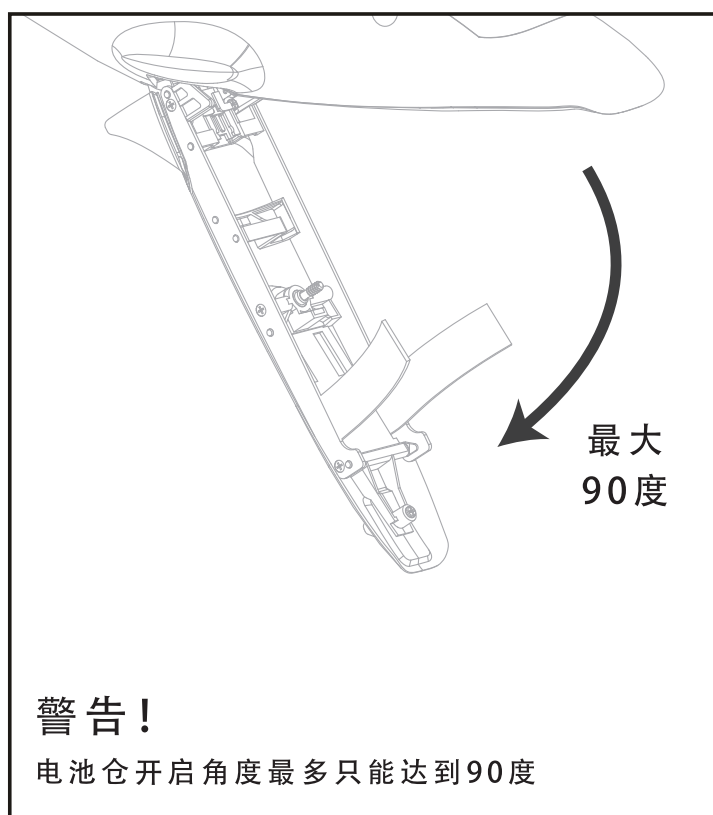
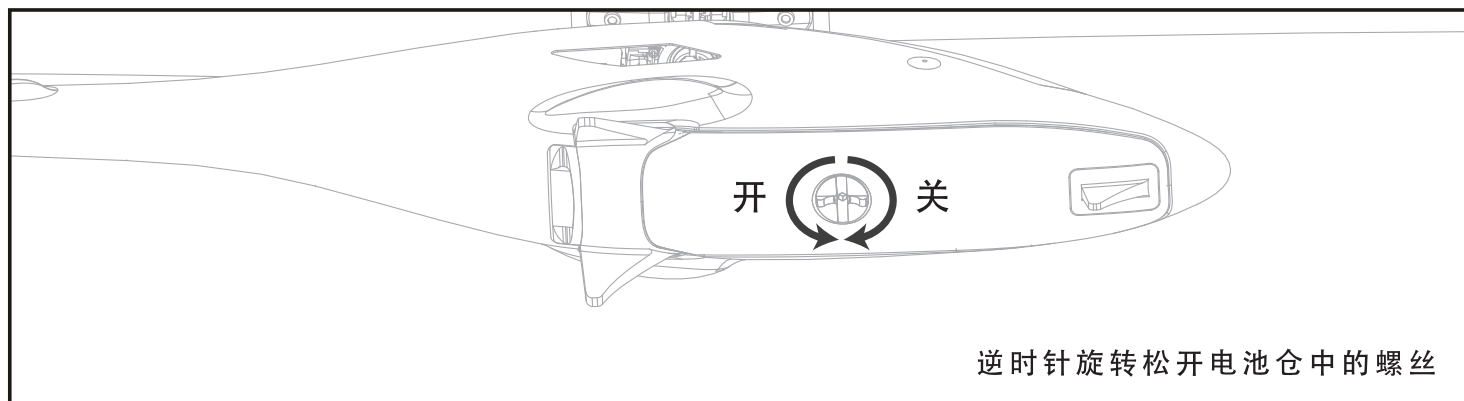
注意事项:

每次飞行后请务必将发射机上的“油门熄火开关”拨动至红点位置,然后将直升机上的“自检开关”拨动至红点位置。在等待直升机初始化时请务必保持直升机静止状态(初始化时间约10秒,初始化时直升机蓝色LED灯快速闪烁,初始化完成后蓝色LED灯由快速闪烁变为常亮)

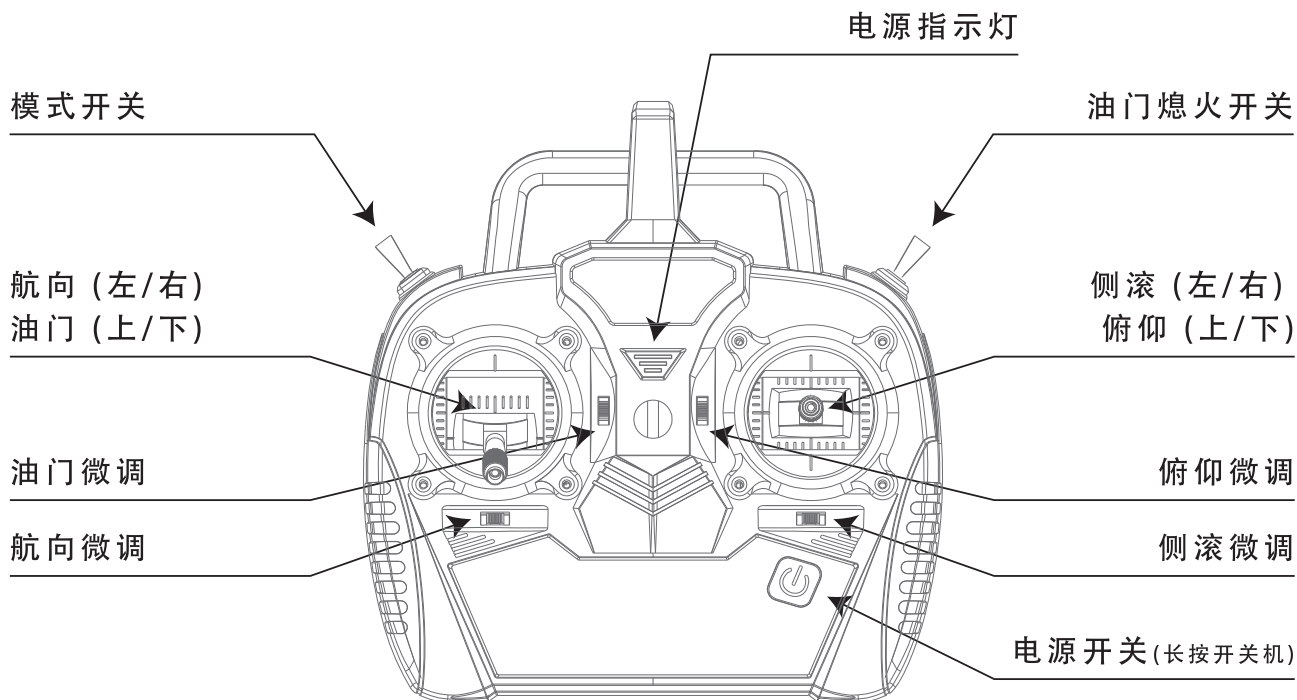
直升机零件介绍



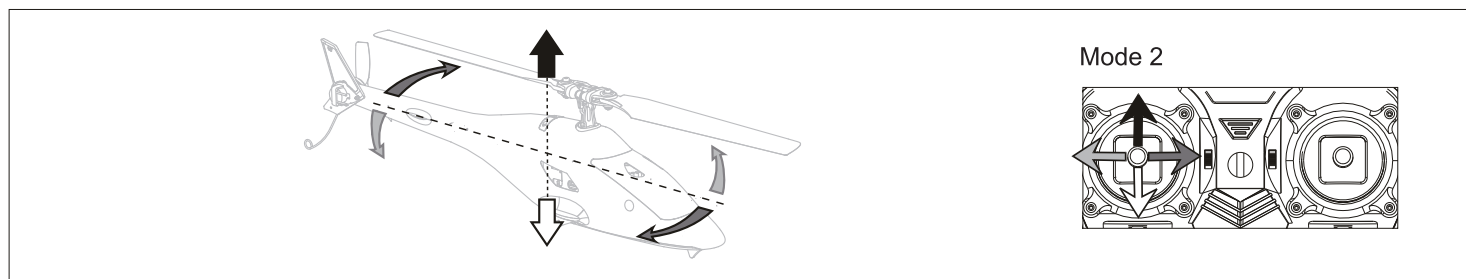
*电池仓的开启角度最大为90度



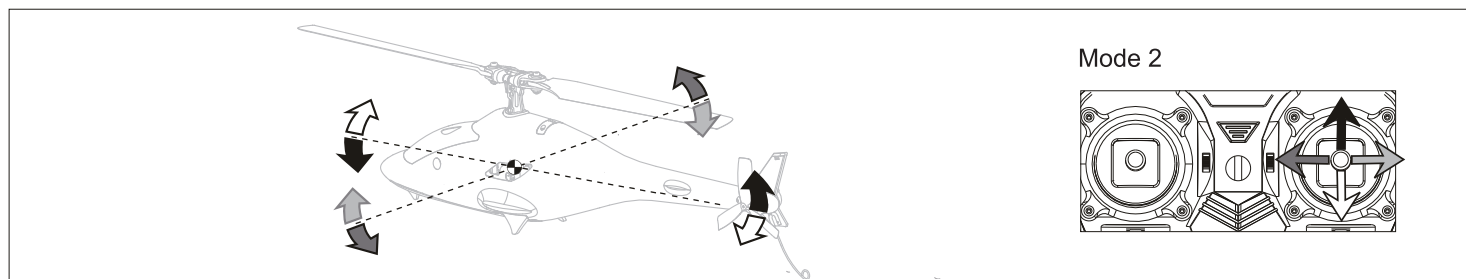
1. 松开电池仓中的螺丝
(警告：电池仓的打开角度只能达到90度)
2. 安装电池并用魔术带固定电池
3. 将充电插头放入限位座中
4. 将电源线插头插入直升机上的电源端口
5. 合上电池仓并将电池仓的紧固螺丝拧紧



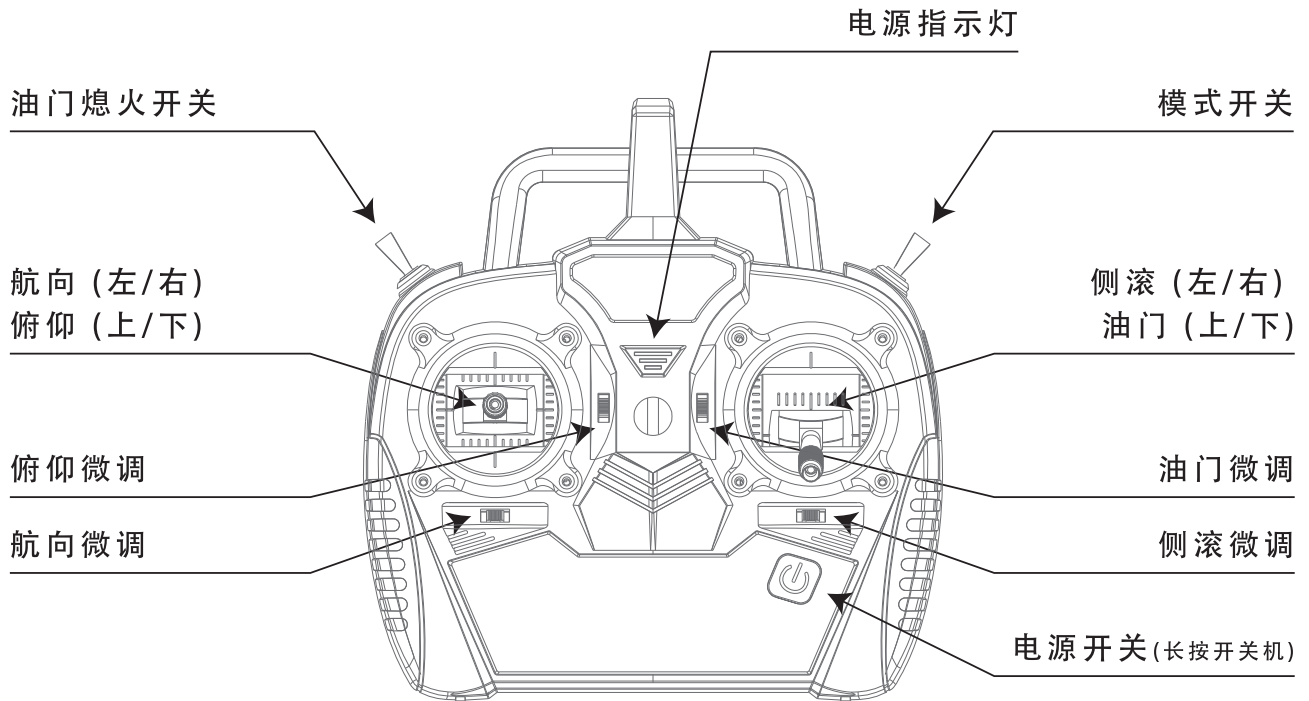
左手发射机控制说明 Mode 2



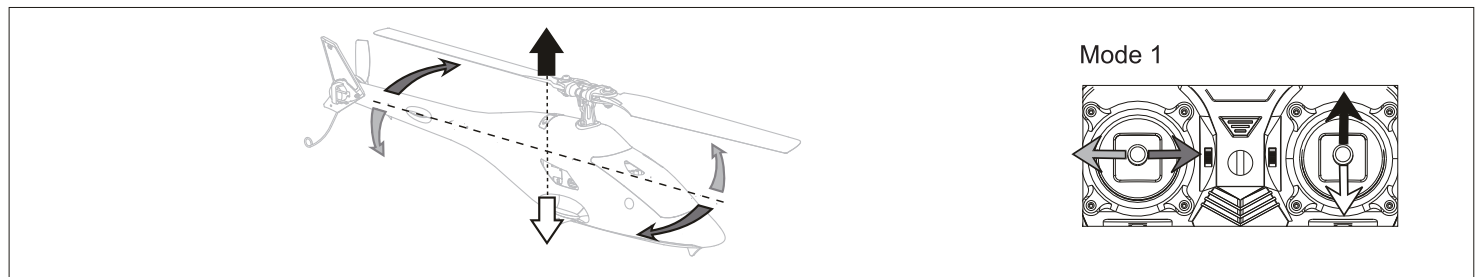
当"左摇杆"向上推动时, 直升机转速加快并上升;当"左摇杆"向下推动时, 直升机转速减慢并下降;此过程是油门控制。
 当"左摇杆"向左推动时, 直升机机头向左转;当"左摇杆"向右推动时, 直升机机头向右转;此过程是航向控制。



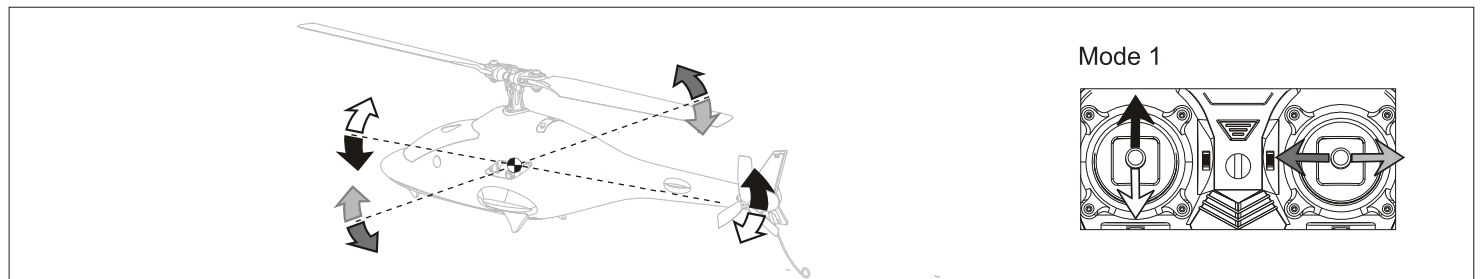
当"右摇杆"向上推动时, 直升机低头并向前飞行;当"右摇杆"向下推动时, 直升机抬头并向后飞行;此过程是俯仰控制。
 当"右摇杆"向左推动时, 直升机向左倾斜飞行;当"右摇杆"向右推动时, 直升机向右倾斜飞行;此过程是侧滚控制。



右手发射机控制说明 Mode 1



当"右摇杆"向上推动时, 直升机转速加快并上升;当"右摇杆"向下推动时, 直升机转速减慢并下降;此过程是油门控制。
当"左摇杆"向左推动时, 直升机机头向左转;当"左摇杆"向右推动时, 直升机机头向右转;此过程是航向控制。



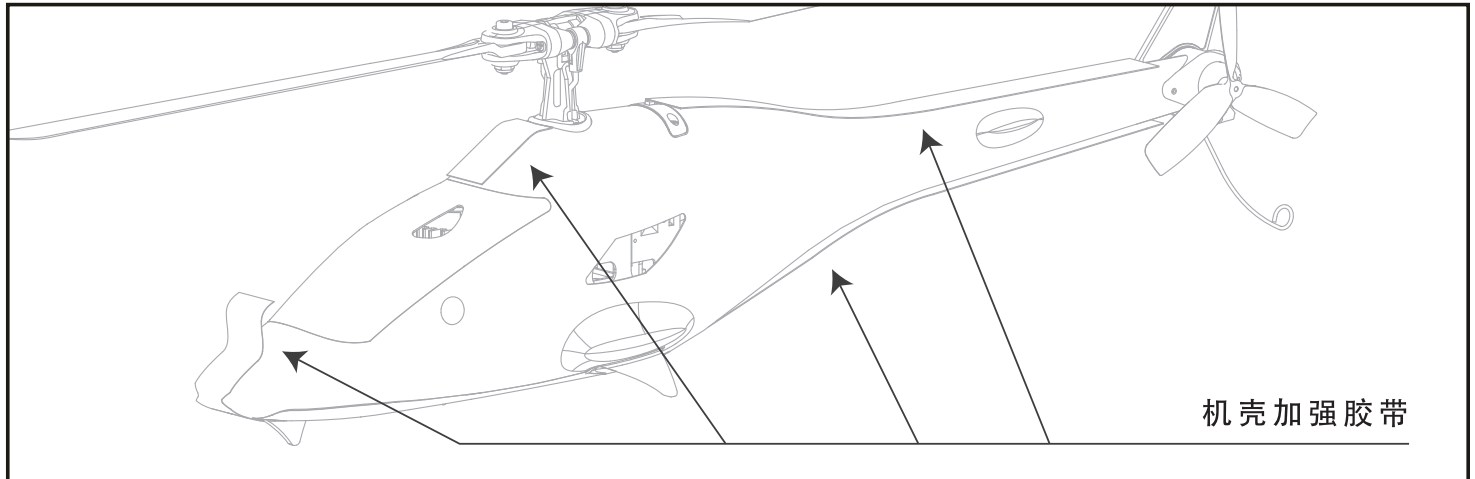
当"左摇杆"向上推动时, 直升机低头并向前飞行;当"左摇杆"向下推动时, 直升机抬头并向后飞行;此过程是俯仰控制。
当"右摇杆"向左推动时, 直升机向左倾斜飞行;当"右摇杆"向右推动时, 直升机向右倾斜飞行;此过程是侧滚控制。

机壳加强胶带

机壳是易损的部件，包装盒内有备用增强胶带，可在机壳破裂时进行维修。

如图所示，将胶带粘贴到机壳黏合或破裂的位置。

在机壳破损前粘贴此胶带，可增强机壳强度并降低损坏的概率。



油门熄火开关

当直升机失去控制时油门熄火开关可用于快速关闭电机。油门熄火开关拨至红点位置时电机将停止转动并不受油门摇杆控制，油门熄火开关拨至绿点位置并且油门摇杆处在最低位置时，电机将怠速转动并可被油门摇杆控制。当熄火开关拨至绿点位置并且油门摇杆处在高位时，电机将怠速转动但不受油门摇杆控制，直至油门摇杆被拉至最低位置。

模式开关

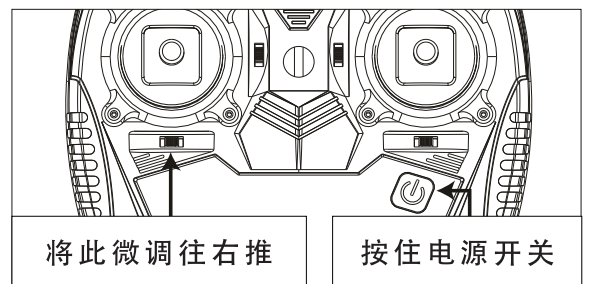
可以通过拨动模式开关到大动(HI)或小动(LO)位置来更改控制灵敏度。

当选择小动模式在户外飞行因气流环境造成操控困难时可尝试使用大动模式飞行。

对码方法

- 1) 关闭发射机电源并打开直升机电源，直升机中的绿色LED灯会在短时间内快速闪烁。
- 2) 向右按住航向微调键不放并打开发射机电源。
- 3) 当直升机的状态LED(绿色灯)常亮时，表示对码完成，松开航向微调键。

(直升机在出厂时已对好码)



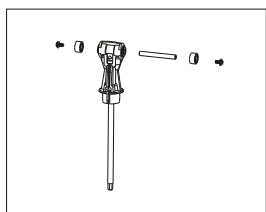
低电压报警（发射机）

当发射机电池电压变低时，蓝色电源指示灯缓慢闪烁。请尽快更换发射机电池，以免影响正常操作。飞行期间，如果发射机蓝色电源指示灯缓慢闪烁并发出哔哔声，请降落直升机并立即更换发射机电池。否则可能会损坏直升机甚至造成人身伤害！

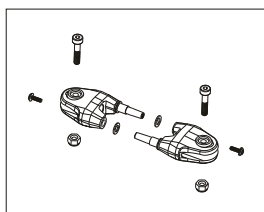
维修工具

为保证直升机中所有螺丝既可以被正确锁紧又不会因过度用力而导致螺丝滑牙，请务必使用随产品提供的维修工具进行维修保养操作。

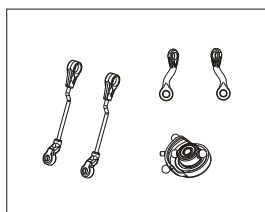
配件表



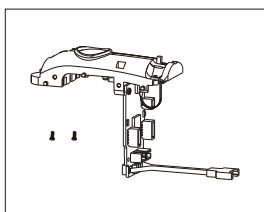
ESKY007996
主旋转头



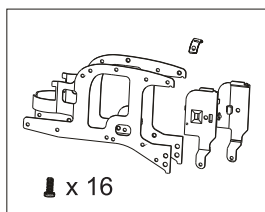
ESKY007997
主翼夹头组



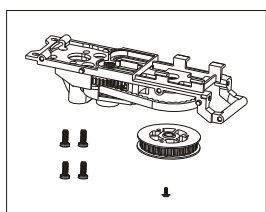
ESKY007998
倾斜盘组



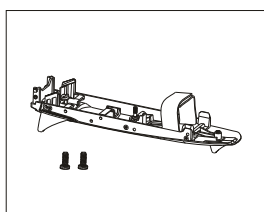
ESKY007949
复合控制器



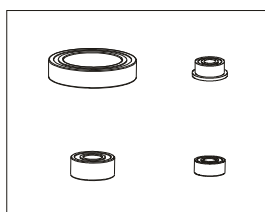
ESKY008000
主机架



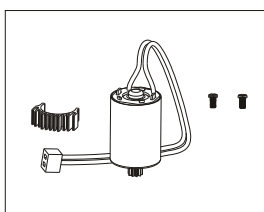
ESKY008001
传动组件



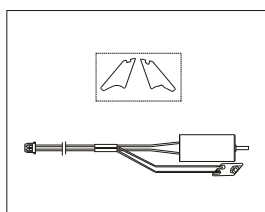
ESKY008002
电池仓



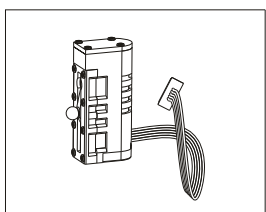
ESKY008003
轴承组



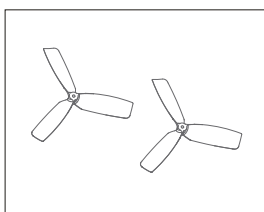
ESKY007950
主马达



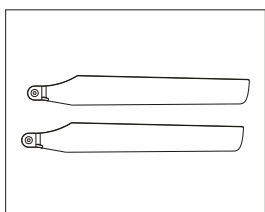
ESKY007951
尾马达 (带尾灯)



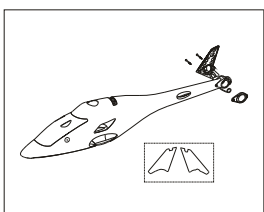
ESKY008004
直线舵机



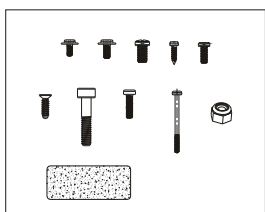
ESKY008005
尾旋翼



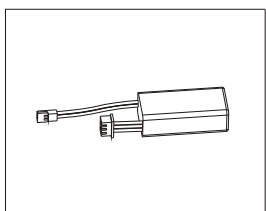
ESKY008006
主旋翼



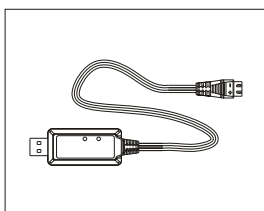
ESKY008007
机壳



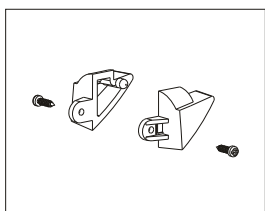
ESKY008008
螺丝组



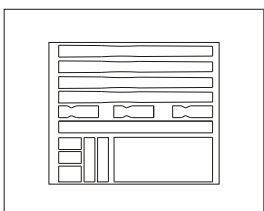
ESKY005867
锂电池



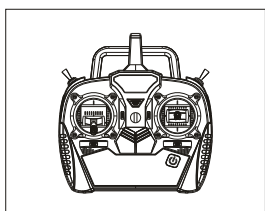
ESKY005907
USB充电器



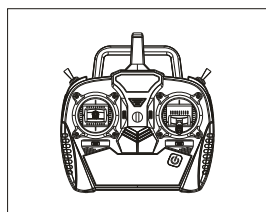
ESKY007999
LED灯罩



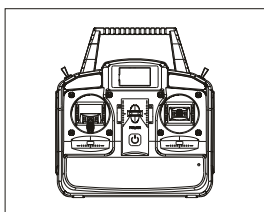
ESKY008447
机壳增强胶带



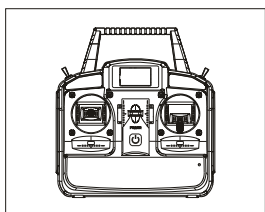
ESKY008083
MINI 6X发射机(左手油门)



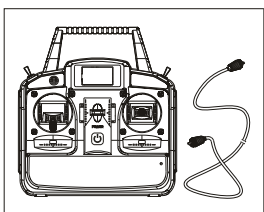
ESKY008083a
MINI 6X发射机
(右手油门)



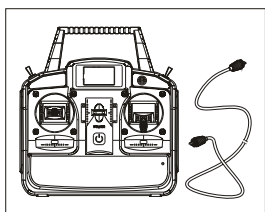
ESKY008085
ECH6发射机
(左手油门)



ESKY008085a
ECH6发射机
(右手油门)



ESKY008575
ECH6教练机
(左手油门)



ESKY008575a
ECH6教练机
(右手油门)

情况: 为什么几次飞行后电池会膨胀?

原因: 直升机已经不能升起时继续让直升机保持转动或其他原因导致电池过放或长时间不使用未做维护
(解决方法: 更换新电池)

情况: 为什么在飞行中直升机的绿色LED灯缓慢闪烁?

原因: 电池电压过低 (解决方法: 为锂电池充电)

情况: 为什么直升机的绿色LED灯快速闪烁?

原因: 直升机进入对码状态 (解决方法: 按操作步骤重新操作或重新对码)

情况: 为什么直升机的蓝色LED灯常亮而绿色LED灯不亮?

原因: 直升机未收到发射机信号 (解决方法: 重启发射机或重新对码)

情况: 为什么直升机连接电源后蓝色、绿色LED灯均不亮?

原因: 电源连接异常或电池异常 (解决方法: 重新连接直升机电源或更换电池)

情况: 为什么直升机的绿色LED灯常亮而蓝色LED灯不亮?

原因: 直升机自检开关未打开 (解决方法: 将直升机放置在水平面后打开自检开关)

情况: 为什么自检完成后舵机可以正常操作而电机不转?

原因: 操作步骤错误直升机进入安全保护状态 (解决方法: 按操作步骤进行正确操作)

情况: 为什么直升机起飞后有轻微偏移?

原因: 微调修正不正确 (解决方法: 使用微调修正)

情况: 为什么直升机飞行时抖动或晃动?

原因: 主旋转头或旋翼变形 (解决方法: 检查主旋转头或旋翼并更换)

情况: 为什么直升机起飞时快速自旋?

原因: 尾旋翼有异物或更换尾翼时安装方向错误 (解决方法: 清除尾旋翼异物或更换尾翼安装方向)

情况: 为什么直升机起飞后严重偏移?

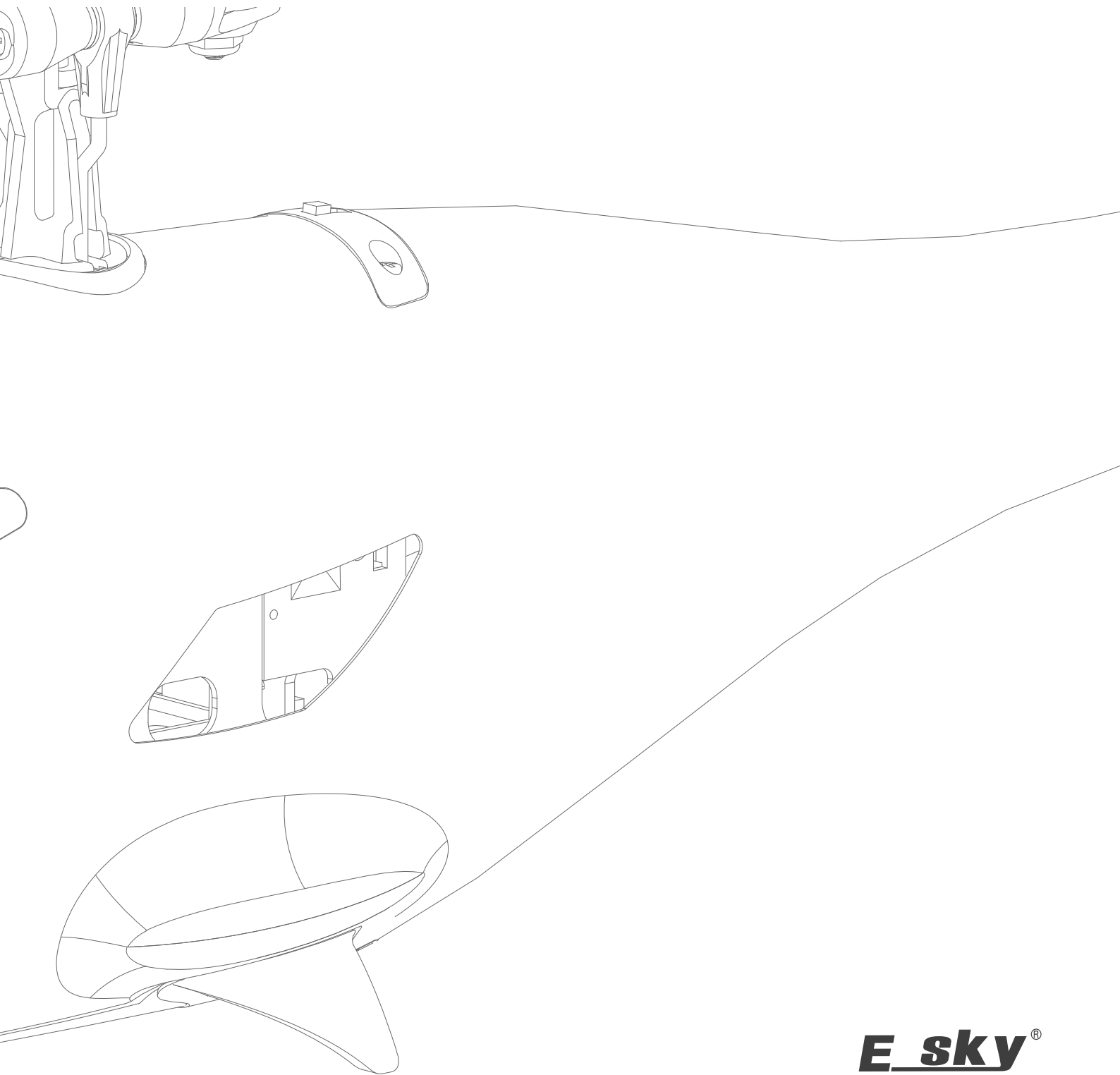
原因: 舵机或结构联动件异常 (解决方法: 检查直升机各部份工作状态)

原因: 微调往一个方向调整过多 (解决方法: 将对应方向微调回归中位后再进行微调操作)

情况: 怎么判断发射机微调是否在中位?

原因: / (解决方法: 微调回归中位后发射机会发出哔一声长响)

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E SKY[®]

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