E SKY

HONEY BEE 2 002434 / 002435

INSTRUCTION MANUAL



Note: Different versions, different equipment!

规格参数

机身长: 510mm 机身高: 180mm 主旋翼直径: Ф510mm

尾旋翼直径: Ф150mm 马达齿轮: 10T

整机重:约304g

标准配备

- 11.1V 800mAh锂电池
- 370马达+N30马达
- 7.5g数字伺服器,扭力: (1.0kg.cm,速度:0.1s/60°)
- 4通道发射机
- •四合一控制器(包含:陀螺仪、电子调速器、混控、接收机)

Specification

Length:510mm Height:180mm

Main blade diameter: 4510mm Tail blade diameter: ⊕150mm

Motor gear:10T Weight:about 304g

Standard Equipments

- Battery:11.1V 800mAh Li-polymer battery
- Power system: 370 motor+N30 motor
- Servo: digital servos(7.5g,1.0kg·cm,0.1s/60°)
- 4-channel transmitter
- Mix controller: "4 in 1" controller(W/gyro,mixer,ESC,receiver)

※本机型在尚未进行重大改版之前,配件可能进行调整,外观、型号可能稍有不同。E-SKY保留配件内容更改权,并不另行通知。 ESKY reserves the right to change or modify the appearance and specification of the unit and the parts without prior notice.

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一、前言 Introduction

感谢您选择ESKY的产品! " Honey Bee 2 "直升机 是专门为初学者开发的一款标准四通道电动直升机。

为了让您更好的了解和使用这款遥控直升机,请您务必仔细地阅读本产品说明书,然后再进行组 装及操作。以确保 您正确使用及操作安全!

请妥善保存这本说明书,以协助您顺利的进行直升机的调整、维修等作业。

Thank you for purchasing ESKY product.

HONEYBEE 2 is a standard 4-channel electric helicopter with single rotor. It is a professional training model designed for RC beginners who demand rapid improvement in flying skills. Its design offers superior stability. The durable material ensures capability of withstanding most crashes while the simple structure makes it easy for maintenance. To ensure safety, you are recommended to read the instruction manual thoroughly before any assembly and operation. Please keep the manual properly for future maintenance.

二、重要声明 Statement

遥控模型不是玩具!!

旋转中的旋翼、马达、齿轮等部件具有一定的危险性,若操作不慎或者使 用不当都有可能造成伤害。

本产品出厂时已经组装、调试完成。除非您具有一定的遥控直升机操作、调整经验,否则请勿任意拆卸直升机上的零件。本公司无法针对操作失误或者组装不当所造成的意外负任何责任。



模型产品包含部分消耗零件。反复的拆装、长时间的飞行、操作失误等都会造成部分零件的损坏,这属于正常损耗范围。请定期检测并更换损耗配件以确保飞行安全。如出现上述损耗,导致产品故障或损坏,本公司将不会进行退货或更换新品。

R/C helicopters, including the ESKY Helicopter are not toys. R/C helicopters utilize various high-tech products and technologies to provide superior performance. The rotating blades on the model spin at high speed can cause potential risk or injury if used improperly. It is mandatory that you observe all R/C safety rules and adhere to local laws as applicable. We recommend that you contact your local hobby store and inquire about safety rules, regulations and local laws and statutes regarding R/C model operation in your area. Please make sure to be conscious of your own personal safety and the safety of others and your environment when operating all ESKY products. If used properly, ESKY R/C products will provide years of R/C entertainment.

We recommend that you obtain the assistance of an experienced pilot before attempting to fly our products for the first time. A local expert can assist you to properly assemble ,set up, and fly your model for the first time.

The HONEY BEE 2 requires a certain degree of skill to operate, and is a consumer item. Any damage or dissatisfaction as a result of accidents of modifications are not covered by any warrantee and can not be returned for repair or replacement. Please contact our distributors for free technical consultation and parts are at discounted rates when you experience problems during operation or maintenance.

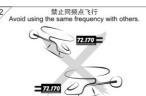
It is not the policy or practice of ESKY HOBBY to exchange or return parts after the package has been opened. In case you discover any parts that might be defective or missing, please contact the retailer who sold you the product. Get their signature on your Customer's Card and contact ESKY HOBBY with a description of the problem parts.

三、 安全注意事项 Safety Precautions



此符号表示: 若疏忽警告说明,将可能会给自身或他人造成危害! 需要特别留意! Accidents may arise from carelessness of these signs.











1、遥控模型不是玩具!具有一定的危险性,禁止14岁以下人士进行操作!

Incorrect operation may cause serious injury or damage! Not suitable for the player under 14 years. The helicopter should not be operated by Children.

- 2、飞行前需要检测飞行场地周围是否有相同频率的遥控设备在使用! 须避免与他人同时使用相同频率的遥控设备! Before starting your flight, always make sure that there is NOT remote control equipments on the same frequency (channel) used in the same flying area. The radio signal interference may cause a crash.
- 3、直升机在存放与飞行时,需要远离高温环境或是其他具有腐蚀性的化学物品! Keep it away from high temperature environment and corrosive chemicals for storage and flight.
- 4、初学者请勿独自操控!初次飞行时最好请有经验的飞行员进行指导之后再进行飞行。
 If you are not an experienced pilot or have not flown this type of model before, we recommend that you get the assistance of an experienced pilot for your first flights.
 - 5、初学者须由基本飞行练习开始!

Beginners are suggested to start with more flying practice on simulator or flying set.

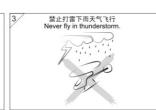


此符号表示:在任何情况下,绝对禁止的行为!

These acts are strictly prohibited under any circumstances to prevent accidents.









1、飞行时应该远离高压电线或其他影响飞行的建筑物!

Keep away from high tension power lines, high buildings or any other obstacles while flying.

- 2、飞行时要远离人群,避免旁人围观!以免误伤他人!
- Keep away from crowds in case of accidental injury.
 - 3、请勿在下雨、打雷、阴天或是视线不清楚的天气进行飞行!

Do NOT operate in rain, thunder, storms, lightning, strong wind or other bad weather.

4、直升机在飞行运转时禁止用手或是其他物品触及直升机!以避免不必要的损失和危险状况发生。 Keep people and objects away from the spinning unit and parts in case of accidental injury or damage.

四、检查包装物及配件 Packaging Contents

打开包装盒后,请先检查附送配件是否齐全完整。若有遗漏,请向所购买的单位反映、索取。

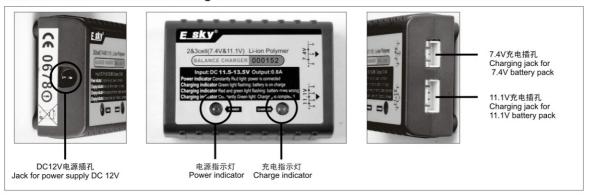
Please check the parts and accessories in the package. In case you discover any parts or accessories defective or missing, please contact the retailer for help.



1.直升机1	Honey bee 21
2.4通道发射机	4 channel transmitter
3.电源适配器	Switching adapter 1
4.平衡充电器	Balance charger for 2-3 cells li-poly battery1
5.11.1V 800mAh锂聚合物电池 ············1	800mAh, 11.1V, Li-poly battery1
6.1.5V "AA" 干电池组 ····································	1.5V "AA" Battery8
7.加密狗	Softdog1
8.DC12V 电源线 ···································	DC12V crocodile clip of storage battery
9.绑带	Double Faced Adhesive Tape 1
10.简易工具包1	Mounting Accessories, Screwdriver & WrenchSet1
11.使用说明书	Manual
11.12/11 //10/11	manda

五、锂电池的充电 Charging the Li-Po Battery

1.充电器的介绍 About the Charger



2. 电源的选择 Selection of Power Supply







3. 充电步骤 How to Charge

- ①将充电器与12V直流电源连接,Power指示灯会亮起红灯,表示电源连接正常。
 - Connect the charger with the power supply DC12V. It indicates proper connection if the red POWER light turns on.
- ②将电池充电插头插入侧面对应的充电插孔,绿色Charger灯会开始闪烁,表示开始充电。
 - Connect the battery to the balance charger. The battery is on charge when the green Charge indicator flashes.
- ③当电池充电完成后,绿色Charger灯会停止闪烁。指示灯转为恒亮,表示电池已经充满。
 If The green Charge indicator stops flashing and turns steady, it indicates the battery is fully charged. Remove the battery from the charger and then disconnect the charger from the power supply.







4.充电注意事项 Charging precautions

①充电器接通DC12V电源后,红色的Power电源指示灯如果没有亮起,表示连接有误,或者DC12V电源有故障。请重新连接,直到正常为止。

If the red POWER light does not turn steady when the charger connected with the DC 12V power supply, it indicates improper connection exists or the power supply does not work well. Please check and reconnect until it works properly.

②当电池连接充电器后,如果红色Power灯与绿色Charger指示灯同时闪烁,表示电池有故障,请检查电池是 否损坏。

If the red POWER light and the green Charge indicator flash at the same time when the battery connected with the charger, it indicates the battery may be defective. Please check the battery and ensure it is in good condition.

③接上电池后,如果绿色的Charger指示灯不亮,但红色的Power指示灯在闪烁,表示充电器进入保护状态,请拔除DC12V电源约3~5秒后重新连接。

If the red POWER light flashes while the green CHARGER light not on when the battery connected with the power supply, which indicates the battery is in state of Protection. Please disconnect the DC 12V power supply and reconnect it 3-5 seconds later.

④充电完成后,绿色的Charger指示灯会恒亮。此时请及时取下电池。如果不拔除电池的话,电池本身的特性会导致自动放电,当电池放电到单节电池电压低于4.15V时,充电器会自动重新给电池充电,直到再一次充满,此过程会反复的进行。

The green Charge indicator will turn steady once the battery is fully charged. Please take off the battey from charger it will discharge automatically if not disconnected in time and re-charge as the single cell voltage is less than 4.15V until fully charged. The process repeats if not disconnected.

⑤请将电池从直升机上取下后再进行充电,请勿直接在直升机上充电!

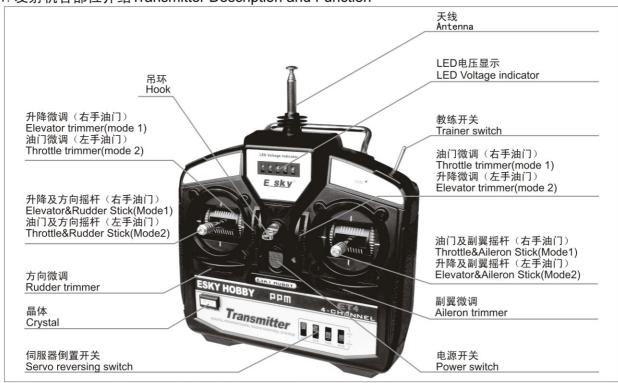
Please take off the battery from the helicopter before charging. NEVER charge the battery while connected with the helicopter.

Do NOT charge on a carpet, cluttered workbench, paper, plastic, vinyl, leather, wood, and the like.

- ⑥充电时请将电池与充电器放在阴凉处,并远离热源或易燃物品。 Keep it in a cool, dry and ventilated place while charging. Keep it far away from heat and inflammables.
- ⑦请使用ESKY原厂出品的充电器与电池,禁止使用非原厂产品。
 Please use original ESKY charging equipments for charging and flying in case of unexpected damage or injury.
- ⑧充电过程中,须有人看护。如有异常请及时断开电源,并转移到安全位置。
 It needs great care while charging. Never leave it unattended in the process of charging.
 Please disconnect the power supply immediately and move to safe place in case you find something abnormal. However it is normal for the charger and battery to get warm while charging.

六、 发射机的介绍 Introduction of Transmitter

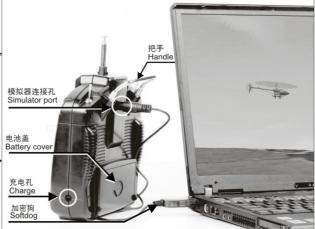
1. 发射机各部位介绍Transmitter Description and Function



整机内配有ESKY原装加密狗,用加密狗连接发射机和电脑,可以在电脑上进行模拟器飞行练习。(软件安装步骤请参考模拟器说明书)。如图所示

An ESKY softdog is included in the package. Connect the transmitter to the computer with the softdog, and then you can practice your flight skill on computer. (Please refer to CD for software installation) shown as





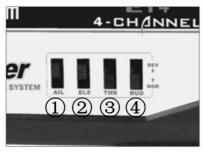
2.倒置开关 Servo reverse

① 副翼 Aileron

②升降 Elevator

③ 油门 Throttle

④ 方向舵 Rudder







右手油门开关:下下上上 Mode1:down down up up

倒置开关:出厂时已按正常使用习惯设置,如有需要请自行调整。

REVERSE already set to conventional usage pattern at the factory. Adjustable while needed.



LED 指示灯:指示灯全亮时说明电池电量饱和。如果只有最后一个红灯闪亮时说明电量已经不多,应及时更换发射机电池。

The battery is full when all the LED lights are on. When the last light turns red and flash, the dry batteries are in low capacity and need to be replaced with new ones.



油门微调:注意在飞行时或在调整直升机时,油门摇杆及油门微调一定要打到最低。

The throttle stick and THROTTLE TRIM must be set down to the bottom position while flying or adjusting.



天线: 注意在飞行时要将天线完全抽出,并使天线向上。

The ANTENNA should be pulled out to the maximum before flying.



晶体接插孔: 因接插孔比较深, 所以在装晶体时要特别小心。

Be particularly careful when plugging the CRYSTAL. The CRYSTAL should be plug into the jack tightly.

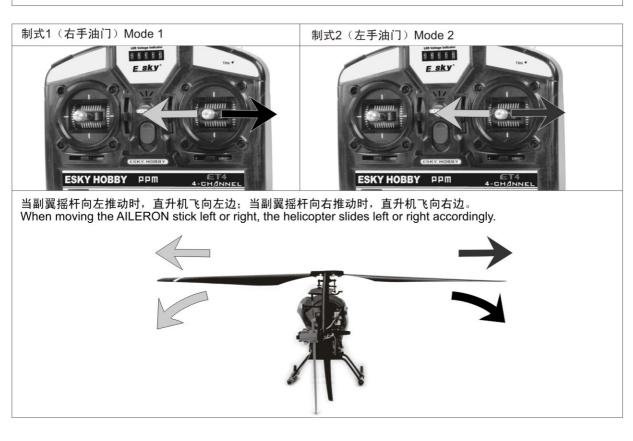


电池:安装电池时须注意电池的正负极,切勿装反。

Pay attention to the polarities of the battery. Never install in the reverse direction.

3.发射机的控制说明 Each control function of transmitter





(右手油门) Mode 1



(左手油门) Mode 2



当升降摇杆向上推动时,直升机向前飞;当升降摇杆向下推动时,直升机向后飞。 When pushing the ELEVATOR stick up or down, the helicopter moves forward or backward accordingly.



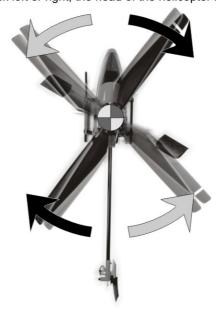
制式1 (右手油门) Mode 1



制式2 (左手油门) Mode 2



当方向摇杆向左推动时,直升机机头向左转;当方向摇杆向右推动时,直升机机头向右转. When moving the RUDDER stick left or right, the head of the helicopter moves left or right accordingly.



七、飞行前舵面的检查(出厂设置)Controls Test

舵面检查: 升降舵 Check Elevator













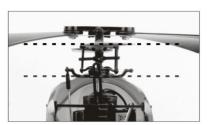


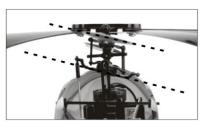




舵面检查: 副翼 Check Aileron











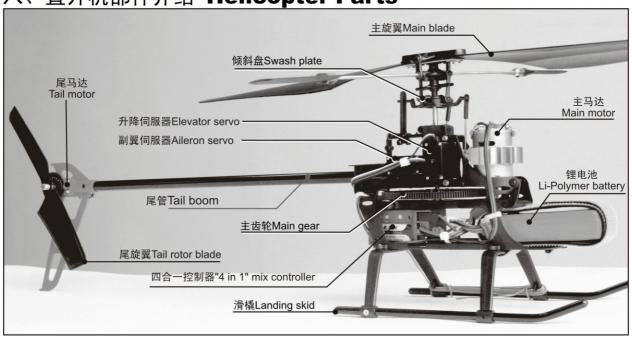




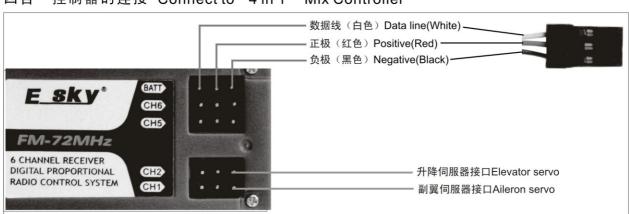


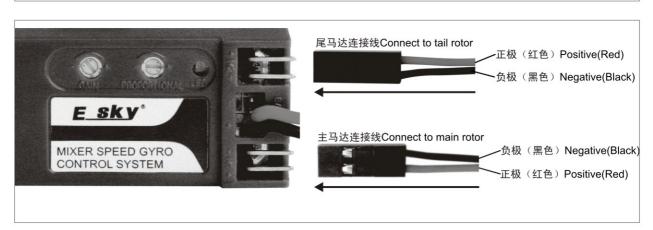


八、直升机部件介绍 Helicopter Parts



四合一控制器的连接 Connect to "4 in 1" Mix Controller



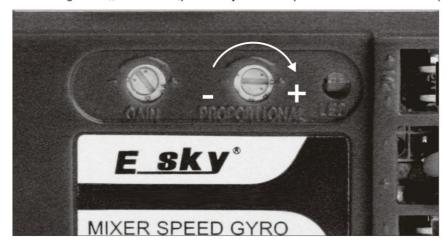


九、四合一控制器的调整"4 in 1"Mix Controller Adjustment

1.混控比例微调的调节 Proportional Trimmer

在直升机飞行时,如果尾部会往右偏移(机头向左),这时要将混控比例微调往"+"方向(顺时针)调整,调到 尾部不再偏移即可。(如图所示)

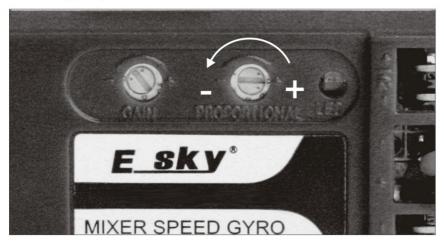
If the tail rotor blades rotate exceedingly slow, and do not counteract the reactive torque, the tail of the helicopter will move to right side;;In that case, please adjust the Proportion Trimmer to increase(+)the r.p.m.of the tail rotor blades.





如果尾部往左偏移(机头向右)。这时要将混控微调往"一"方向(逆时针)调整,调到尾部不再偏移即可。 (如图所示)

During the flight, the tail rotor blades rotate in a proper proportion to the main rotor blades. If the tail rotor blades rotate exceedingly quick, the tail of the helicopter will move to left side In that case, please adjust the Proportion Trimmer to decrease(-) the r.p.m. of the tail rotor blades. (Shown as below)



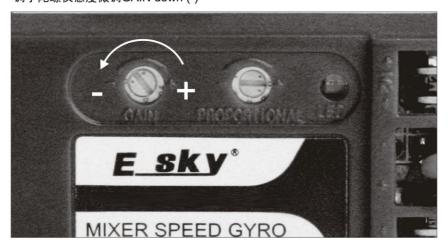


2.感度调节 Gyro Gain Trimmer

直升机飞行时,如出现尾部不受控制的左右小幅抖动,且不受发射机控制,需调小陀螺仪感度。(如图所示)During the flight,if the tail is out of control,wobbling slightly from left to right,it indicates that the tail is locked too tight,please adjust the Gain Trimmer to decrease(-)the gyro gain.(Shown as below)



调小陀螺仪感度微调GAIN down (-)

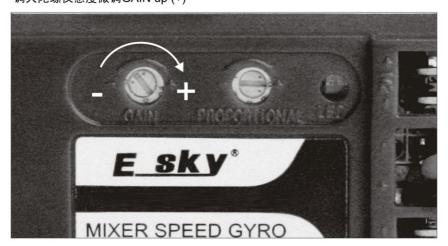


直升机飞行时,如尾部左右大幅度摇摆不定,且不受发射机控制,则需调大陀螺仪感度,调到飞行稳定为止。 (如图所示)

If the tail move a large angle to the left or right, wobbling considerably from left to right. Then please adjust the Gain Trimmer to increase(+)the gyro gain. (Shown as below)



调大陀螺仪感度微调GAIN up (+)



十、主旋翼不在同一水平面旋转的调整 Main Rotor Blade adjustment

在飞行前需要检查主旋翼是否在同一水平面旋转,如果不在同一水平面旋转,直升机在飞行中会出现不平稳或升力 不足等现象。

Check to make sure the main rotor blades at a horizontal plane to achieve a stable flight. Otherwise there will be a consequent vibration and decrease in lift force. You can check the main rotor blade tracking either on the ground or in the air at eye level.

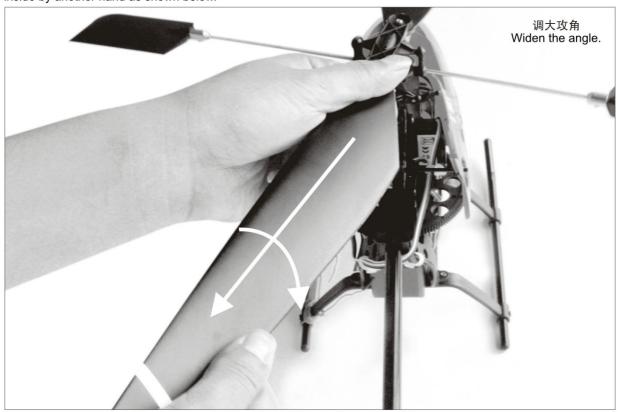


当一对主旋翼中的一只旋翼攻角大于另一只旋翼的攻角时,在旋转中会出现如上图所示情况。此时将两只主旋翼 的攻角调整一致。(在上面的主旋翼攻角大,在下面的主旋翼攻角小。)

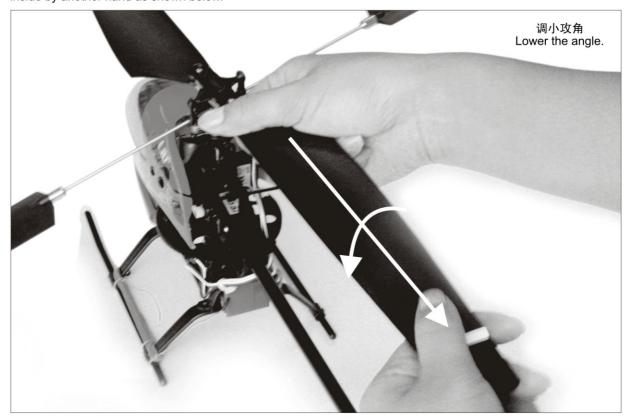
Double impression appears when the attack angles of the main rotor blades are not in the same plane.

调大主旋翼攻角的方法:用手抓主旋翼根部向主旋翼末端移动同时向内侧扭转主旋翼。(如下图)

To adjust the attack angle higher: hold the root of the main rotor blade by one hand and pull the blade toward the inside by another hand as shown below.



调小主旋翼攻角的方法: 用手抓住主旋翼根部向主旋翼末端移动同时向内侧扭转主旋翼(如下图) To adjust the attack angle lower: hold the root of the main rotor blade by one hand and pull the blade toward the inside by another hand as shown below.



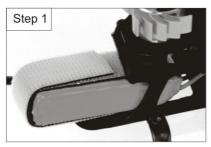


操作中有时不会一次成功,需要经过多次调整后才能达到重合状态。当两个主旋翼攻角相差不大时,也可以进行很好的飞行。

Repeated adjustment might be needed to achieve perfect blade tracking. However, the helicopter will still perform well as long as the blade tracking is adjusted as closely as possible.

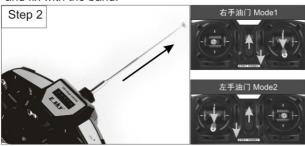
十一、飞行操作步骤 Procedure for flight

1.起飞步骤The process step of flight



将充满电的电池放入电池槽,用绑带将电池固定好,并 确定不会松动。

Place the fully-charged BATTERY PACK into the slot, and fix with the band.

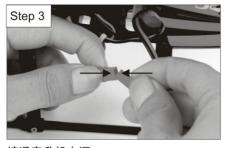


将天线完全抽出,油门摇杆与油门微调移至最下方,其它 微调置中,开启发射机电源。

Pull out the ANTENA to the maximum;

Set both the TROTTLE STICK and TROTTLE TRIM down to bottom, while others centered.

And then turn on the TRANSMITTER.



接通直升机电源。

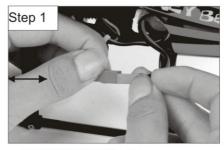
Connect the BATTERY PACK to the helicopter.



绿灯恒亮即显示进入待飞状态。

It is ready to fly when the green light on 4-in-1 controller turns on.

2.结束飞行步骤The process step of landing and off flight.

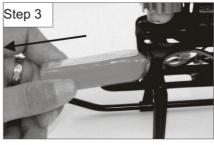


一定要先断开直升机电源:

Always disconnect the BATTERY PACK from the helicopter before turn off the TRANSMITTER;

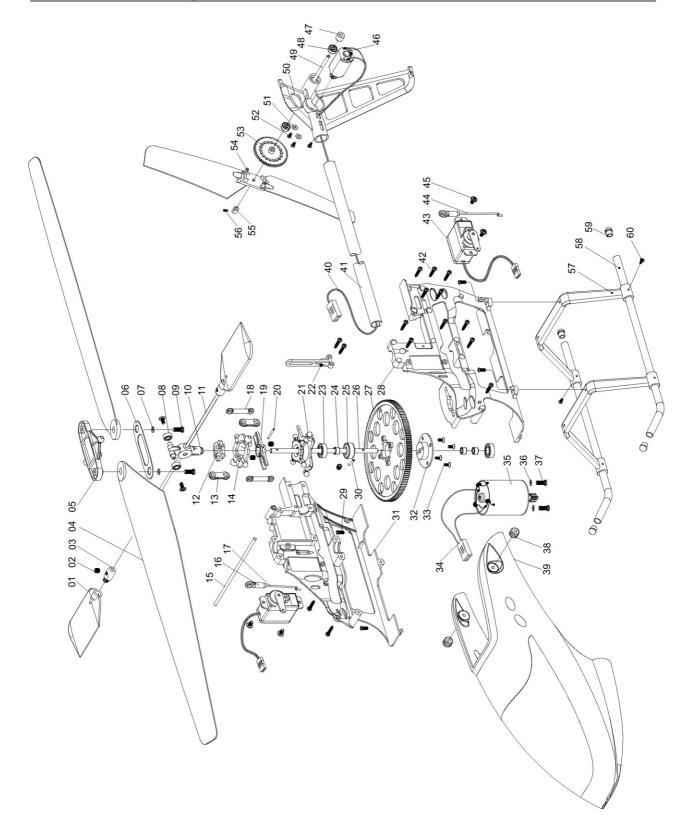


然后再进行关闭发射机电源; Power off the transmitter;



取出直升机的电池与发射机内的电池,并请妥善保存。 Remove both the BATTERY PACK of the helicopter and the DRY BATTERIES of the transmitter and keep it well.

十二、分解图 Exploded view



NO.	名称 Description	用量 Qty need	规格 Specification	N0.	名称 Description	用量 Qty need	规格 Specification
1	平衡翼 Paddle	2		33	平头十字螺丝 Philips head screw	4	ST1.7*4
2	基米螺丝 Kimi screw	5	M3*3	34	主马达线 Main Motor wire	1	
3	平衡翼配重块 Paddle balance weight	2		35	主马达组 Main motor set	1	
4	主旋翼 Main blade	2		36	垫片 Spacer	2	Ф 3.1*Ф8*1.0
5	旋转头 Center hub set	1		37	平头十字螺丝 Philips head screw	2	M3.0*6
6	加强片 Reinforced pad	1		38	软胶头 Plastic pad	2	
7	垫片 Spacer	2	Ф 26*Ф8.0*0.8	39	机壳 Cabin	1	
8	滚珠轴承 Ball bearing	2	MR63zz	40	尾马达线 Tail Motor wire	1	
9	圆头十字螺丝 Round Head Screw	2	M2.6 * 7	41	尾管 Tail boom	1	Ф 7*Ф8*275
10	主旋转头 Main rotor head	1		42	P 头十字螺丝 Philips head screw	12	ST1.7*6
11	平衡翼杆 Flybar	1	2*220	43	舵机 Servo	2	
12	控制内盘 Inner-CONTROL plate	1		44	拉杆 Push rod	1	M1.2*40
13	双孔连杆 Ring-link push-rod	2		45	傘头十字螺丝 Philips head screw	7	ST1.7*4
14	控制外盘 Paddle control frame (outer)	1		46	尾马达组 Tail motor set	1	
15	碳纤杆 Carbon rod	1	Ф 2.0 * 80	47	限位套 Stop collar	1	
16	拉杆头 Push-rod head	2		48	滚珠轴承 Ball bearing	2	MR62zz
17	拉杆 Push-rod	1	M1.4*31	49	碳纤杆 Carbon rod	1	Ф 2 * 38
18	双孔拉杆 Ring-like push-rod	2		50	尾架 Tail Frame	1	
19	连动件 Drive link	1		51	垫片 Spacer	2	Ф 1.5*Ф4*0.4
20	销子 Dowel pin	1	Φ 1*11	52	圆头十字螺丝 Round Head Screw	2	M1.4*3
21	倾斜盘组 Swashplate set	1		53	尾齿轮 Tail gear	1	
22	十字盘导板 Swashplate guide plate	1		54	尾旋翼 Tail rotor blade	1	
23	铜套 Copper cover	2	Ф7*Ф10*3	55	限位块 Stopper	3	
24	滚珠轴承 Ball bearing	3	Mr683zz	56	平头十字螺丝 Philips head screw	1	M2 * 2
25	主轴固定环 Main shaft fixed collar	1	Φ 5*Φ11*6	57	滑撬支架 Skid bar	2	
26	主轴 Main shaft	1	Ф 3*80.5	58	滑橇 Skid	2	
27	主齿轮 Main gear	1		59	滑撬管塞 Tube stopper of skid	4	
28	左机架 Left framework	1		60	平头十字螺丝 Philips head screw	1	TPF1.7*4
29	十字槽盘头螺丝 Cruciform slotted Screw	4	1.7*6				
30	销子 Dowel pin	1	Ф 1.5*8				
31	右机架 Right framework	1					
32	齿轮固定盘 Gear fixed disk	1					

十三、配件图 Spare Parts



Charger for 2- 3cell Li-Poly 平衡充电器



Rotor head set 旋翼夹头



Center hub set 主旋转头套件



Bearing 滚珠轴承



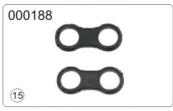
Tail rotor blade 尾旋翼



Tail motor heat-sink 尾马达散热罩



Digital servos 7.5g 7.5g数字伺服器



Ring-like push-rod 双孔拉杆组



Paddle control frame (outer) 控制外盘套件



Tail rotor drive gear & Shaft set 尾动齿轮组



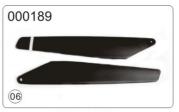
Allen Key & fastener 工具组



Main motor heat-sink 主马达散热罩



Main motor 主马达



Main blade 主旋翼组



Swashplate set 倾斜内外盘套件



Bearing 滚珠轴承



Tail Motor 尾马达



Main shaft drive gear set 齿轮组



Main shaft Retaining Collar 主轴固定环



Coach-wire ESKY教练线



Switching adapter(USA) 适配器 (美规/日规)



Li-Polymer battery 锂电池



Tail Frame (black) 尾架 (黑色)



Copper cover 铜套



Paddle balance weight 平衡翼配重块



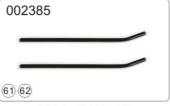
Switching adapter (U.K) 适配器 (英规)



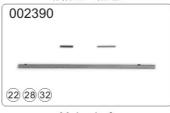
Switching adapter (Australia) 适配器 (澳规)



Main frame 主机架组



Skid set (black) 滑橇组 (黑色)



Main shaft 主轴



Softdog (USB PLUG) 加密狗



Switching adapter (Europe) 适配器 (欧规)



Skid bar set 滑橇支架组



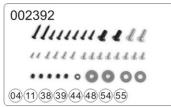
Swashplate guide plate 十字盘导板



Paddle 平衡翼



Pitch control link set 连杆套件



Screw sets 螺丝组



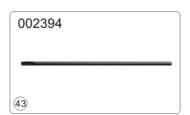
Cabin (green) 机壳组 (绿色)



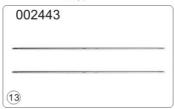
Tail Frame (green) 尾架 (绿色)



2.4GHz "4 in 1" mix controller 2.4GHz 四合一控制器



Tail boom 尾管



Flybar 平衡翼杆



Battery band 电池绑带



2.4GHz 4CH transmtter 2.4GHz 4通道发射机



Cabin (red) 机壳组 (红色)



Motor wires 马达线



"4 in 1" mix controller 四合一控制器



4CH transmitter 4通道发射机

注意:配件图中的编号为第17页分解图中对应的零部件编号。

Note: please find the item number of the spare parts in the exploded view on page 17.

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