

**AGE 14+**

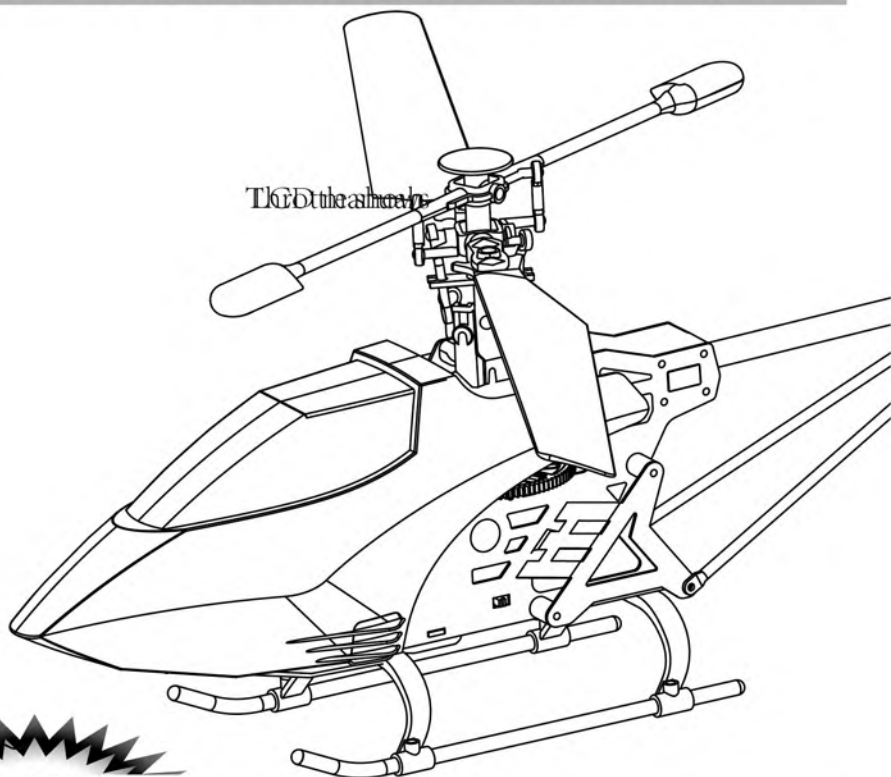
# R/C QUAD-COPTER USING INSTRUCTION

# F1

*GYRO SYSTEM*



*3D SINGLE ROTOR REMOTE CONTROL HELICOPTER*



**2.4GHZ**  
**EDITION**

**GYROS SYSTEM**

To avoid copter's damage and player's injury, please read this instruction before flying!

In this instruction of material, the specification or parts within the accessories bag is for reference only. The company will not be responsible for any change of printed part and notify the consumers. Any update or change please refer to the website of SYMA ([www.symatoys.com](http://www.symatoys.com)).

## **Safety regulations**

1. Placed in small parts of the reach of children, to avoid accidents.
2. The blades of this helicopter is used activities blades, don't screw up.
3. The helicopter was powerful, should be gradually pushed up the remote control shift lever on the left for first flight, to avoid the surge caused the helicopter crash damage. to avoid the fast rising caused quad-copter crash damage.
4. Should be turn off the power of controller first then turn off the power of the helicopter when finished flight.
5. Do not put the battery in high temperature or heating place (e.g: Fire or electric heating devices).
6. Note that the quad-copter should keep off the user or other persons from 2-3m to avoid the landing copter crash into other person's head, face or body etc.
7. Children should fly the copter by adults in the guidance and ensure the copter control in flyer's (or guides's) line of sight range for easy to control.
8. Non-rechargeable battery is not charging. Installing or changing the battery, please note the positive and negative poles. Don't mix old batteries and new batteries or different type.
9. Please turn off the power of the controller and helicopter when not in use.
10. Power terminal is not allow short circuiting.

## **Ready to fly**

1. Please recheck the ground, keep away from the crowds, animals, and other barriers.
2. Turn on the controller, push the Up/Down lever down, the status keep lighting, the controller get ready to fly.
3. Move Power Switch on the on the helicopter to the "ON" position, after that, the power indicator will light up and flash. Place the helicopter on the ground for seconds, with a sniff, the steering gear server will reset, the power indicator will keep lighting. The signal search finished, the helicopter ready to fly.
4. Push the throttle lever slowly, the quad-copter will fly up.

## **Low voltage protection**

Low-voltage protection: When the helicopter battery is low, the helicopter control system battery will be protected, and stop the supply of helicopter rotor; low power protection, the need to charge to secure a new flight of the helicopter.

Overcurrent protection: When the helicopter blades in the rotating state by collision or jammed, the helicopter circuit overcurrent protection.

## **Maintenance**

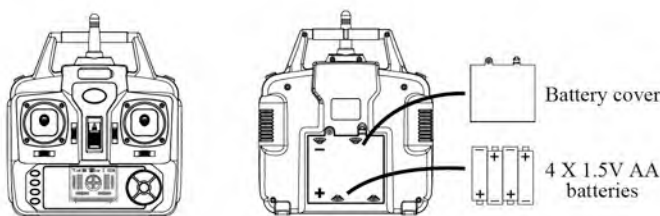
1. Cleaning the helicopter with clean and soft cloth.
2. Don't put the helicopter under the direct sun or strong lighting
3. Don't soak the toys in the water, or the electronic parts will be destructed.
4. Regularly check the plug and other spare parts, if find some parts broken, please stopping using till the product in good condition.

## **Announcements**

- (1) Every time turn off or reset the battery, please research the signal.
- (2) Please keep one controller to one helicopter at every time searching the signal to avoid the interference.
- (3) Please keep the controller closed to the helicopter when searching signal for a short searching time.

## Assembly transmitter & helicopter charging

### Assembly transmitter

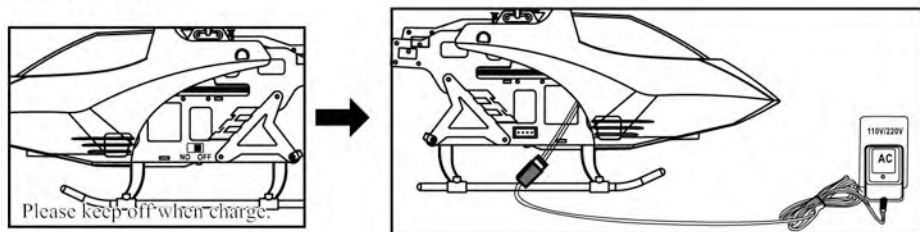


1. **Install batteries:** Open the cover of battery case, insert 4 batteries (size 1.5V AA) properly followed by polar indicator. (batteries to be purchased)



1. **Install batteries carefully.**
2. **Do not mix old and new batteries.**
3. **Do not mix different types of batteries.**

### Battery-Helicopter



#### Integrated charger:

Turn off the helicopter, take out the power connecting. Please insert the charger into the power jack, the charger LED light GREEN, then connect the charger to helicopter, after 2 seconds, the charger LED light from GREEN to RED, it starts charge. When charging finished, the charger LED light GREEN again, it takes about 120 minutes.

**120 minutes charging can flying more 6 minutes.**

Quad-copter is equipped with a LI-Poly battery, please also pay attention to the following cautions or safety use.

Do not use or leave the battery near a heat source such as fire heater. Otherwise it will cause damage or explode.

Do not use the battery slam or beating hard surface.

Do not immerse the battery in water, and keep it in a cool dry place.

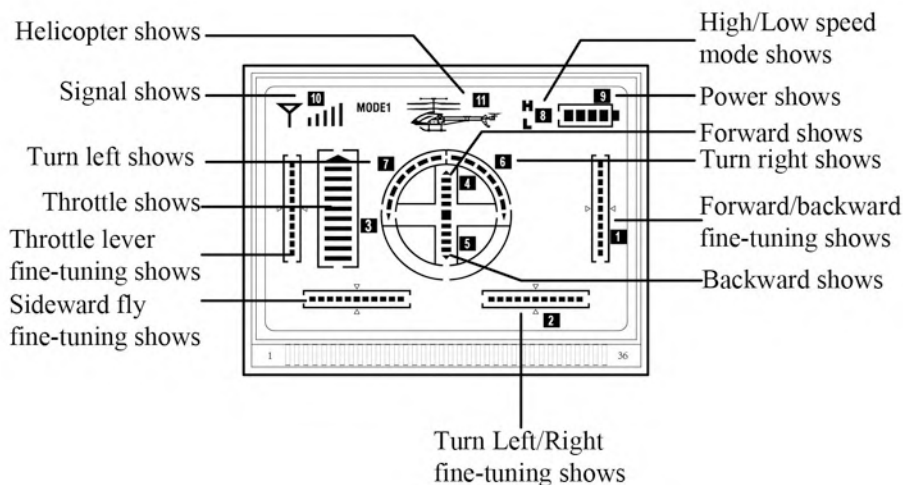
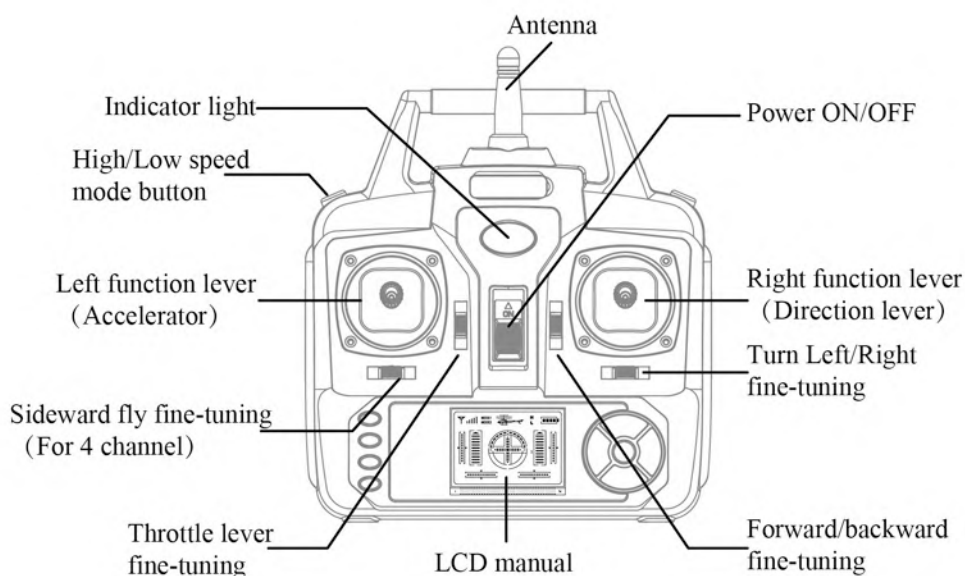
Charger included with the product can only be used for the product charge.

Do not disassemble the battery.

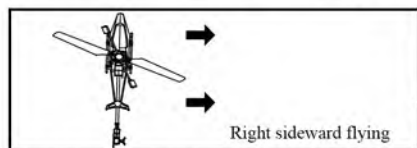
Never leave the battery unattended during charging.

To protect the battery after flight, battery temperature is higher, please charge when it cooling.

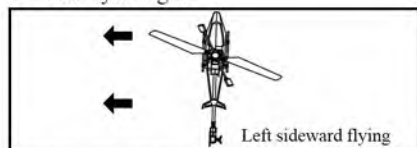
# Remote Control Keypad and LCD Manual



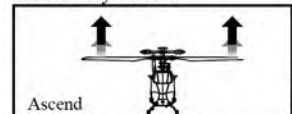
## Helicopter control ways



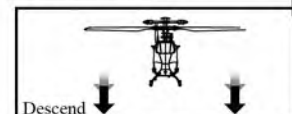
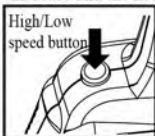
Put the joystick to right ,helicopter will fly to right.



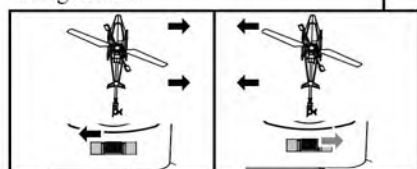
Put the joystick to left, helicopter will fly to left.



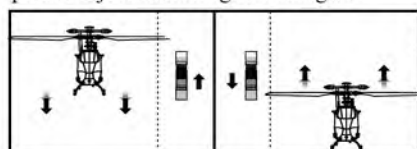
When you push up the left stick(throttle) the speed the main rotor blade will increase and the helicopter will go up.



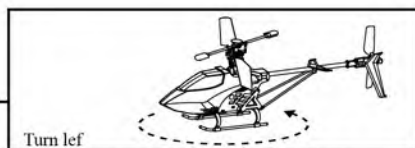
When you pull down the left stick (throttle) the speed of the main rotor blade will decrease and the helicopter will go down.



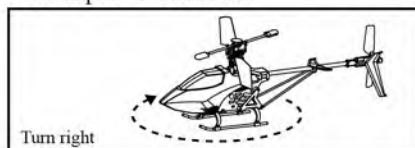
When helicopter fly to leftside or rightside, please adjust according to this figure.



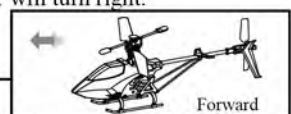
When helicopter ascend or descend by itself , please adjust according to this figure.



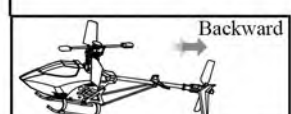
Push the runnder stick toward left , helicopter will turn left.



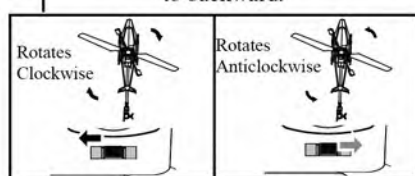
Push the runnder stick toward right, helicopter will turn right.



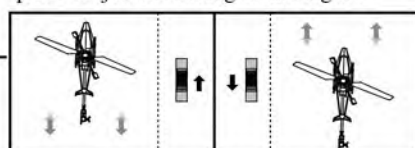
When push up the right stick, helicopter is moving to forward.



When push down the right stick, helicopter is moving to backward.



When helicopter turn left/right by itself, please adjust according to this figure.



When helicopter move to forward/backward by itself, please adjust according to this figure.





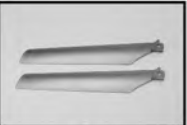




















Tips: When use fine-tuning ,please keep the helicopter hovering .

## Maintenance program

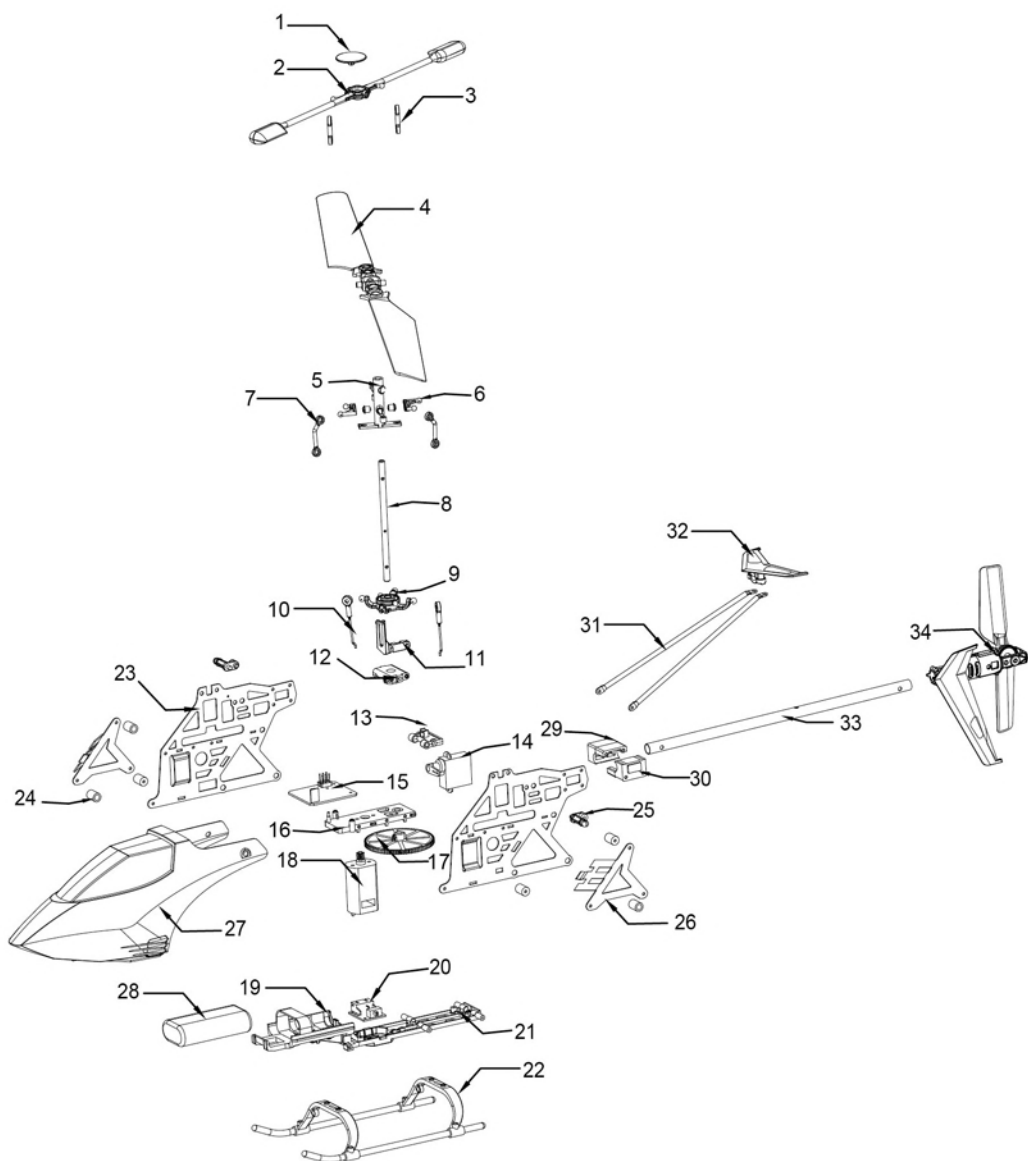
Problem	Cause	Check this
No reaction from the helicopter	<ol style="list-style-type: none"> <li>1. Not enough power for the helicopter.</li> <li>2. Not enough power for the controller.</li> <li>3. The channel was different from helicopter and the controller.</li> <li>4. The gyro of the helicopter can't find out the right point.</li> </ol>	<ol style="list-style-type: none"> <li>1. Should be charging for the helicopter.</li> <li>2. Change new batteries instead.</li> <li>3. Remote control and the aircraft power supply is turned off, re-code.</li> <li>4. Move the helicopter onto the flat ground, when the gyro receive the signal, then open the controller.</li> </ol>
Not reaction from the helicopter when was fly	<ol style="list-style-type: none"> <li>1. the remote control are running low.</li> <li>2. antenna Weld.</li> </ol>	<ol style="list-style-type: none"> <li>1. replace the remote control batteries.</li> <li>2. antenna re-welding.</li> </ol>

## Spare parts list

Order by item number from local distributors.

				
F1-01 Head cover	F1-02 Main frame	F1-03 Motor basic	F1-04 Landing skids	F1-05 Main blades
				
F1-06 Tail blades	F1-07 Tail Unit Module	F1-08 Balance bar	F1-09 Main shaft	F1-10 Tail decoration
				
F1-11 Metal frame	F1-12	F1-13	F1-14	F1-15
				
F1-16	F1-17 Skip cutting stem	F1-18 Steering engine	F1-19 Main motor	F1-20 Circuit board
				
F1-21 Li-poly battery	F1-22 Tail gears set	F1-23 Bearings	F1-24 Connect buckle	F1-25 Steering engine basic

# Graphic detail







AGE 14+

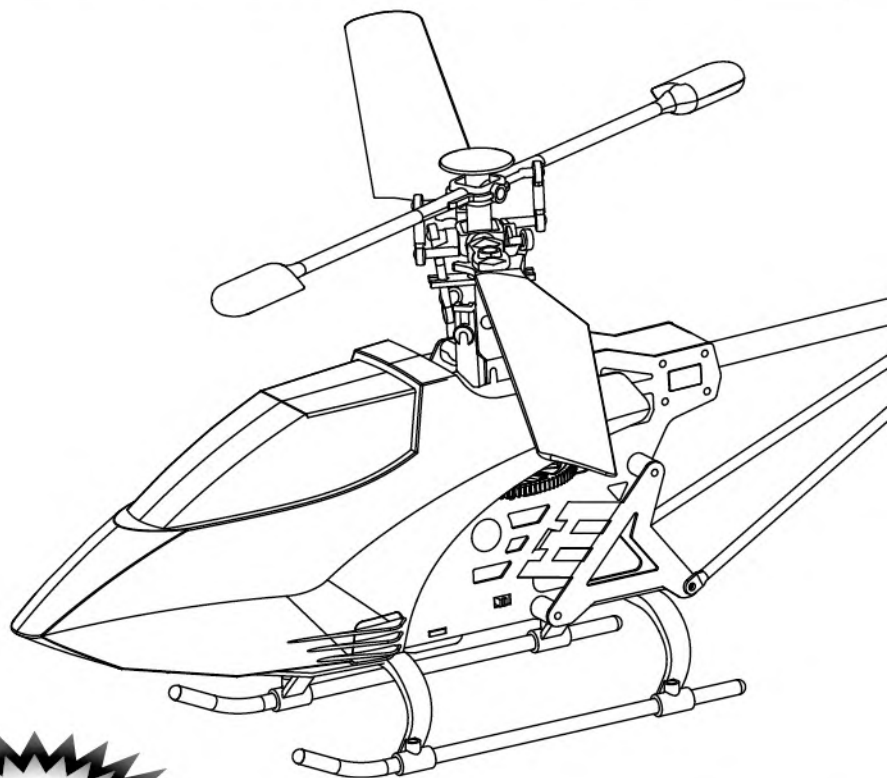
# 遥控直升机使用说明书

# F1

陀螺仪遥控系列



## 3D单桨直升机模型



**2.4GHZ**  
EDITION

**内置陀螺仪**

为了避免直升机的损坏、伤及自己或他人，在使用之前，请仔细阅读本说明书。

本说明书内的材质，规格或零件包装之内物仅供参考。本公司将不对此印刷物之异动负责也无法主动通知消费者，任何更新或异动，请以司马航模网页为主。

## 安全守则

1. 请将直升机较小零部件放置于小孩不能触及的地方，避免发生意外。
2. 本直升机风叶均采用活动风叶，切勿将其拧紧。
3. 本直升机动力十足，首次飞行时应慢慢推高遥控器左手边变速操纵杆，避免直升机急速上升而导致碰撞损坏。
4. 飞行结束后，先走近直升机关闭直升机电源，再关闭遥控器电源。
5. 切勿将电池放在高温、受热的地方（如火中或电热装置附近）。
6. 注意直升机飞行时与使用者或其他人保持2-3米的距离，避免直升机飞行、降落时撞向他人的头部、脸部或身体等。
7. 儿童操控直升机时应由成年人在旁指导并确保直升机控制在操纵者（或指导者）的视线范围内，方便控制。
8. 非充电电池不可充电，安装或更换电池时请注意极性；不可混用新旧或不同类型的电池。
9. 不使用时应关闭遥控器及直升机电源，并取出遥控器内的电池。
10. 电源端子不得短路。

## 预备飞行

1. 检查场地，远离人群、动物、及其他障碍物。
2. 打开遥控器电源，将上升/下降变速操纵杆拉回到最低端，遥控器指示灯呈常亮状态表示遥控器已经进入预备飞行状态。
3. 将直升机的电源开关由“OFF”拨向“ON”处，这时直升机机头灯闪烁；将直升机平放在地上几秒后，听到“嗤”的一声，舵机自动复位，机头灯又闪烁变为常亮，此时表示对码成功。直升机进入预备起飞状态。
4. 慢慢推动上升/下降变速操纵杆，即可将直升机起飞。

## 低压及过流保护

低压保护：当直升机电池电量较低时，直升机控制系统会对电池进行保护，停止直升机旋翼的供电；低电保护后，需对直升机充电才可重新飞行。

过流保护：当直升机风叶在旋转状态下，受到碰撞或卡住时，直升机电路进行过流保护。

## 保养及维护

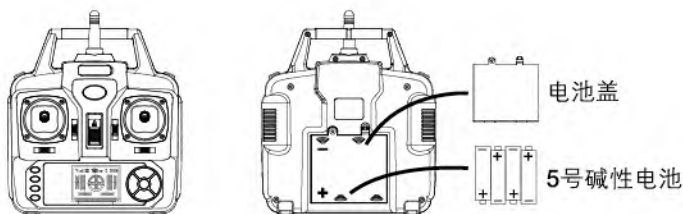
1. 常用干净软布清洁此产品。
2. 避免此产品在阳光下暴晒或受热。
3. 切勿将此玩具浸在水中，否则会令电子零件受损。
4. 定期检查插头及其它配件，如发现任何损坏，请马上停止使用，直到完全修复。

## 注意事项

- (1)当直升机每次关掉或电池重新插入时，须重新同遥控器对码。
- (2)在同一时刻。确保对码时飞机和遥控器只有一对，否则会对错遥控器。
- (3)在对码时请将遥控器尽量靠近直升机，这样会缩短对码时间。

## 组装遥控器及直升机充电

### 组装遥控器

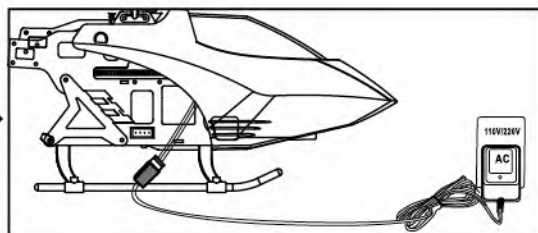


1. 电池的安装方法：打开遥控器背面的电池盖，依照电池箱的电极指示正确地放入4节5号碱性电池(电池须另购)。



1. 装电池时必须认准正负极与电池盒正负极，切不可装反。
2. 请勿混合使用新旧电池。
3. 请勿混合使用不同种类的电池。

### 直升机电池充电



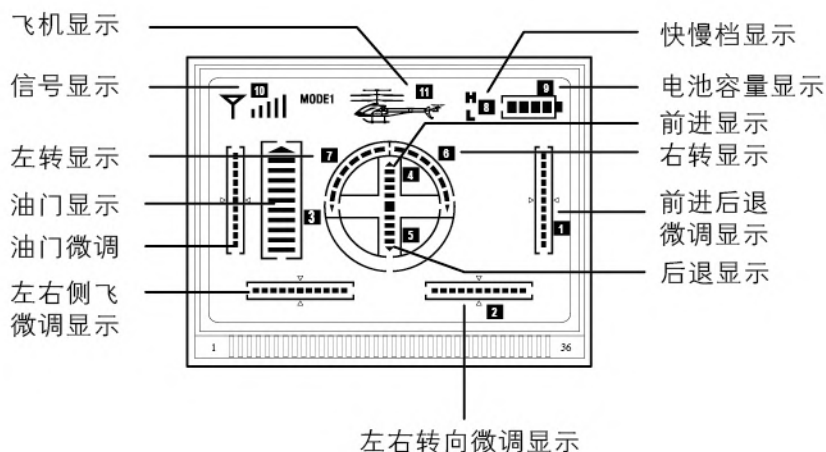
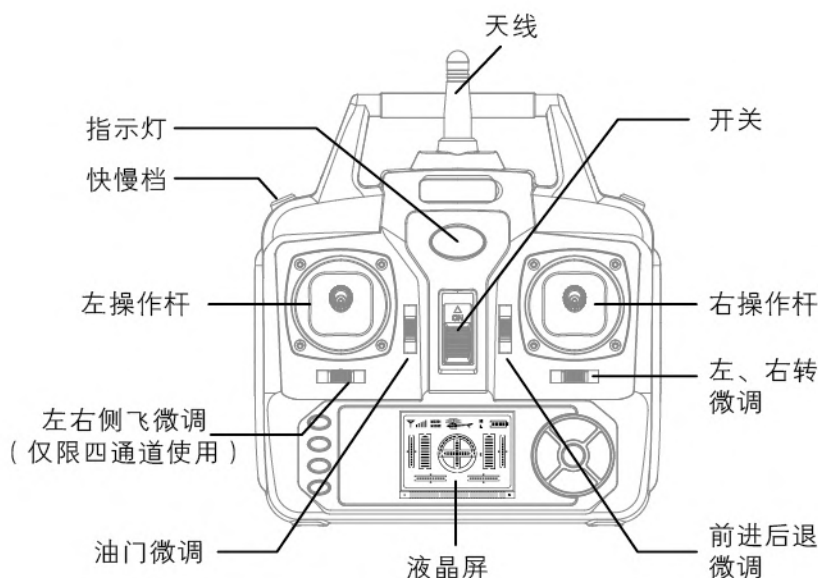
#### 一体式充电：

关闭直升机电源开关，拔出直升机电源插头。后将充电器插入电源座中，此时充电器上指示灯为绿色，再将充电插头与充电器连接，2秒后充电器指示灯变为红灯，表示充电正在进行，当充电器完成时，指示灯又变为绿色，电池约120分钟左右充满。

## 充电时间120分钟左右可飞行6分钟以上！

- 此产品配备内置锂电池，使用时要注意以下安全事项。
- 切勿把带电电池放在高温受热的地方，如明火或电热装置，否则会发生损坏或爆炸。
- 切勿用电池撞击或敲打硬质物体表面。
- 切勿把电池浸入水中，电池应存放在干燥的地方。
- 只能用产品附带的充电器为产品充电。
- 切勿分解电池。
- 充电时人员切勿离开。
- 在飞机刚刚完成飞行时，电池温度较高，待电池冷却后再给电池充电，否则电池容易损坏。

## 遥控按键与液晶显示功能介绍



# 直升机操控指引



右侧飞

将操纵杆推向右边、直升机向右侧飞行。



左侧飞

将操纵杆推向左边、直升机向左侧飞行。



上升

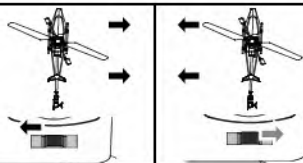
当左操纵杆（油门）向上推，直升机上升。

快慢挡转换键

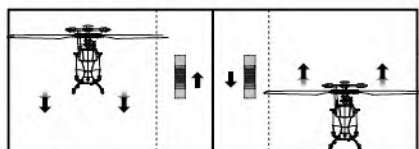


下降

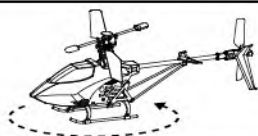
当左操纵杆（油门）上推，直升机下降。



当直升机出向左或向右侧飞时可按上图所示调整

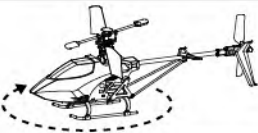


当直升机出现下降或上升时可按上图所示调整



左转

将操纵杆推向左边、直升机向左转。



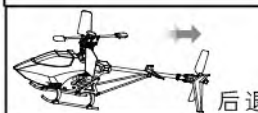
右转

将操纵杆推向右边、直升机向右转。



前进

当操纵杆向上推，直升机则向前前进。

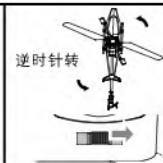


后退

当操纵杆向下推，直升机则向后后退。

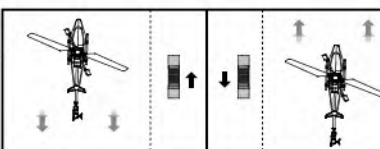


顺时针转



逆时针转

当直升机出向左或向右旋转时可按上图所示调整



当直升机出现前进或后退时可按上图所示调整

注：在调整飞行器的微调功能时，飞行器必须处于悬停状态下。

## 检修程序

问 题	原 因	解 决 办 法
直升机 没有反应	1. 直升机电量不足。 2. 遥控器电量不足。 3. 直升机无法正常飞行或悬停	1. 对直升机进行充电。 2. 更换遥控器电池。 3. 将直升机电源重新开关，并重新放置于水平地面，使其重新对码。
直升机 飞行反应 不灵敏	1. 遥控器电量不足。 2. 天线虚焊。	1. 更换遥控器电池。 2. 天线重新焊接。

## 配件（选购）

下列是可供选择的配件，为方便客户选购，特出每个部件。可通过当地的经销商购买配件。



F1-01  
机头



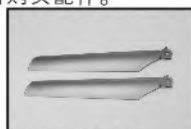
F1-02  
主架



F1-03  
电机架



F1-04  
起落架



F1-05  
主风叶



F1-06  
尾风叶



F1-07  
机尾组件



F1-08  
平衡杆



F1-09  
主轴



F1-10  
机尾饰件



F1-11  
主架铝片



F1-12  
尾撑管



F1-13  
齿轮



F1-14  
倾斜盘



F1-15  
机头固定件



F1-16  
舵机推拉杆



F1-17  
跷跷杆



F1-18  
舵机



F1-19  
主机



F1-20  
电路板



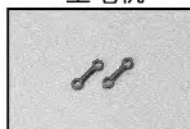
F1-21  
电池



F1-22  
尾齿轮组件



F1-23  
轴承

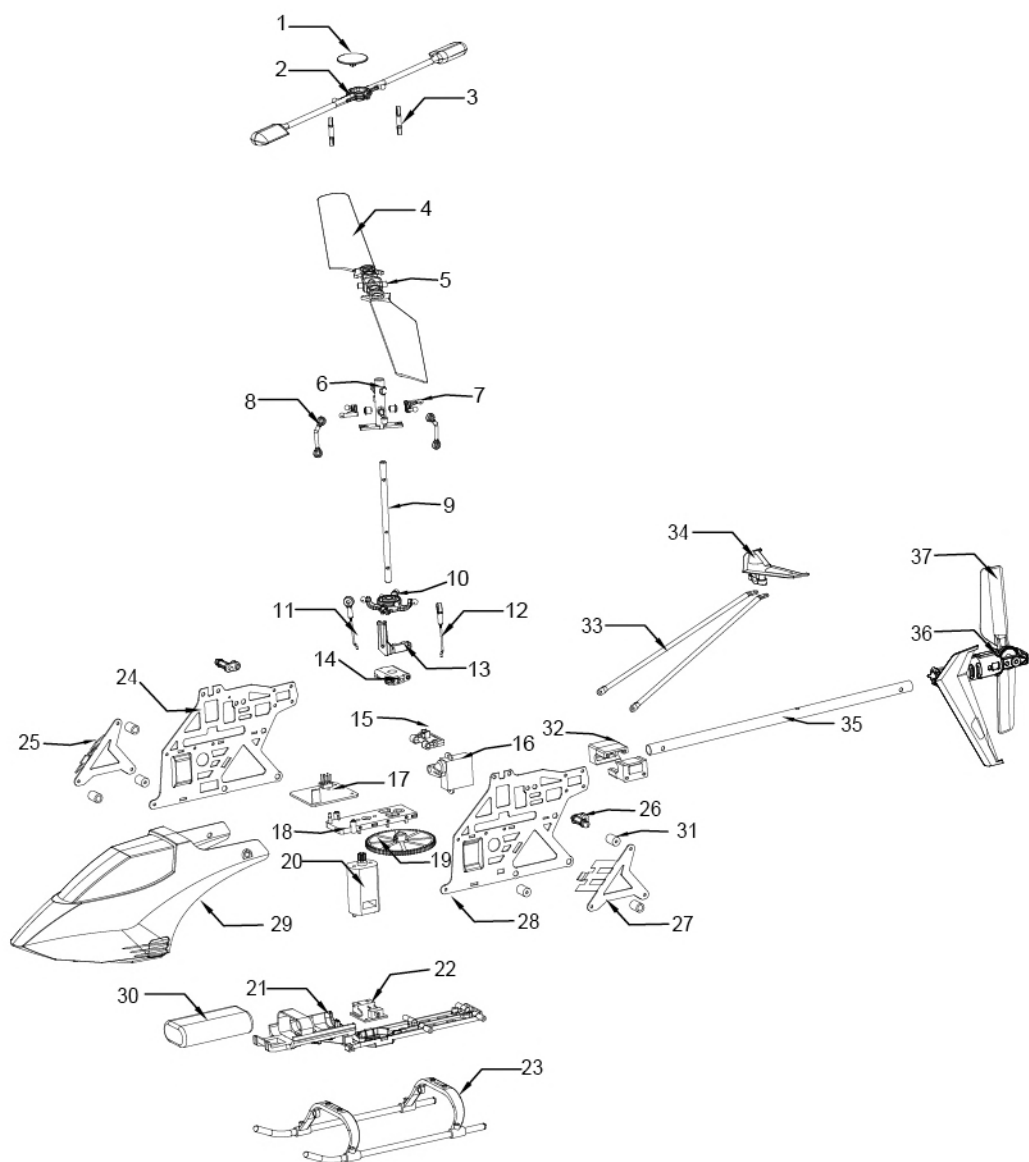


F1-24  
连接扣



F1-25  
舵机座

# 明细图解



编 号	产 品 名 称	数 量
01	装饰圆顶	1
02	平衡杆组件	1
03	连接扣	2
04	主风叶	2
05	风叶夹	1
06	主轴座	1
07	跷跷杆	2
08	七字连接扣	2
09	主轴	1
10	倾斜盘组件	1
11	短舵机推杆	1
12	长舵机推杆	1
13	倾斜盘固定件	1
14	主轴固定件	1
15	舵机上固定件	1
16	舵机组件	1
17	电路板	1
18	主电机座	1
19	主齿轮	1
20	主电机组件	1
21	底架	1
22	开关电源板	1
23	起落架组件	1
24	右侧上铝件	1
25	右侧下铝件	1
26	机头固定件	2
27	左侧下铝件	1
28	左侧上铝件	1
29	机头	1
30	电池	1
31	铝片固定套	6

[illegible]