

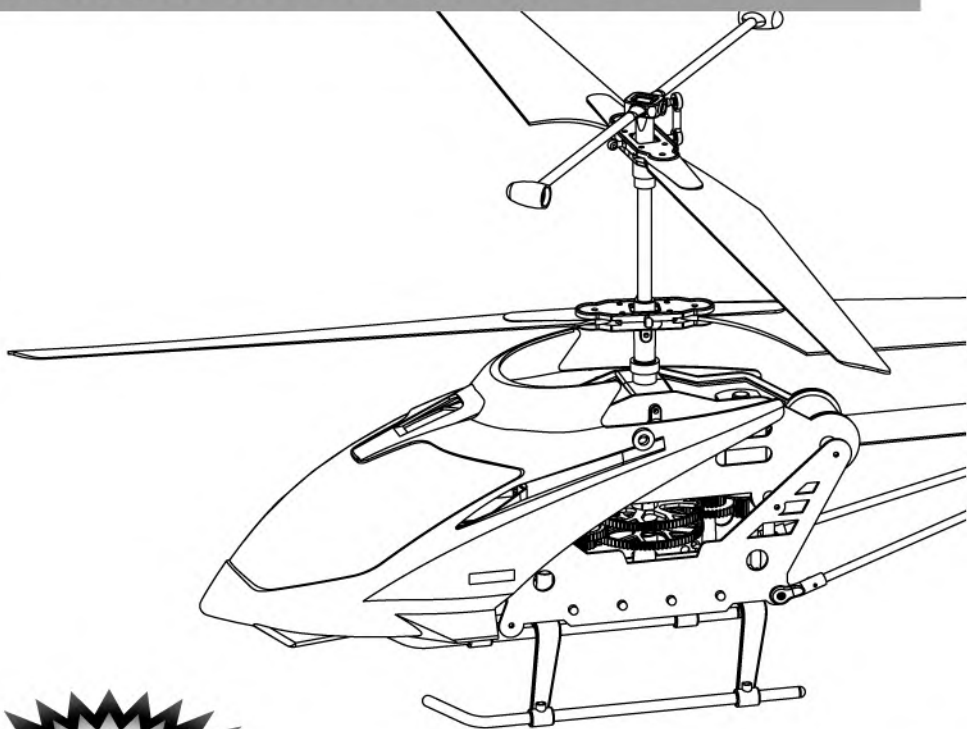
AGE 14+

R/C HELICOPTER USING INSTRUCTION

S31

3.5-CHANNEL GYRO SYSTEM

REMOTE CONTROL HELICOPTER



GYROS

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).

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.
4. Should be turn off the power of controller first then turn off the power of the helicopter when finished flight.
5. Do not place the battery in high temperature, heating place(e.g: fire or electric heating devices)
6. Note that when the helicopter to keep the user or other persons from 2-3 m to avoid the helicopter flight, landing crashed into another person's head, face and body and so on.
7. Children should control the helicopter by adults in the guidance and ensure the helicopter control in manipulator (or guides) line of sight range, easy to control.
8. Non-rechargeable battery is not charging, installation the lithium battery, please note that the battery polarity. Do not mix old batteries and new batteries or different type batteries.
9. Should be 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 the remote control on, after a while, the LEDs will be flashing. Push the motive handle must be pushed to the maximum control route of travel first, then adjust it to the lowest; When the remote control LEDs keep lighting, it means the helicopter is going to fly.
3. Open remote control power switch, then the remote status light was flashing and accompanied by the rhythmic sound, and then push up the up / down variable speed joystick to the top, then its back to the most low-end; the status of the remote control The indicator is lit and the sound stopped, the remote control to enter the preparatory off state.
4. Push the motive handle slowly, then the helicopter will fly up.

Low volatage 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.

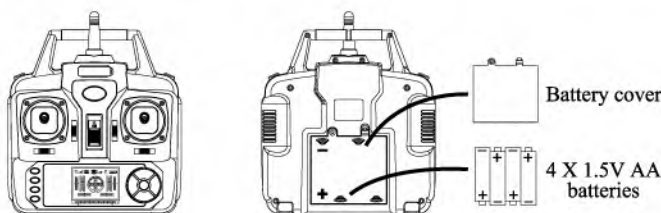
Overcurrent protection: When the helicopter blades in the rotating state by collision or jammed, the helicopter circuit overcurrent protection.

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.

Assembly transmitter & helicopter charging

Assembly transmitter

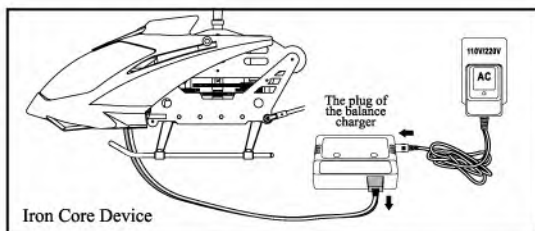
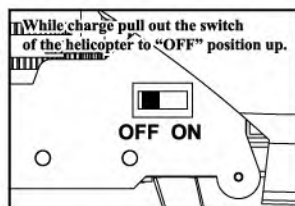


1. Install batteries: Open the cover of battery case, insert 4 batteries (size 1.5V AA) properly followed by polar indicator. (batteries to be purchased)



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

Battery-Helicopter



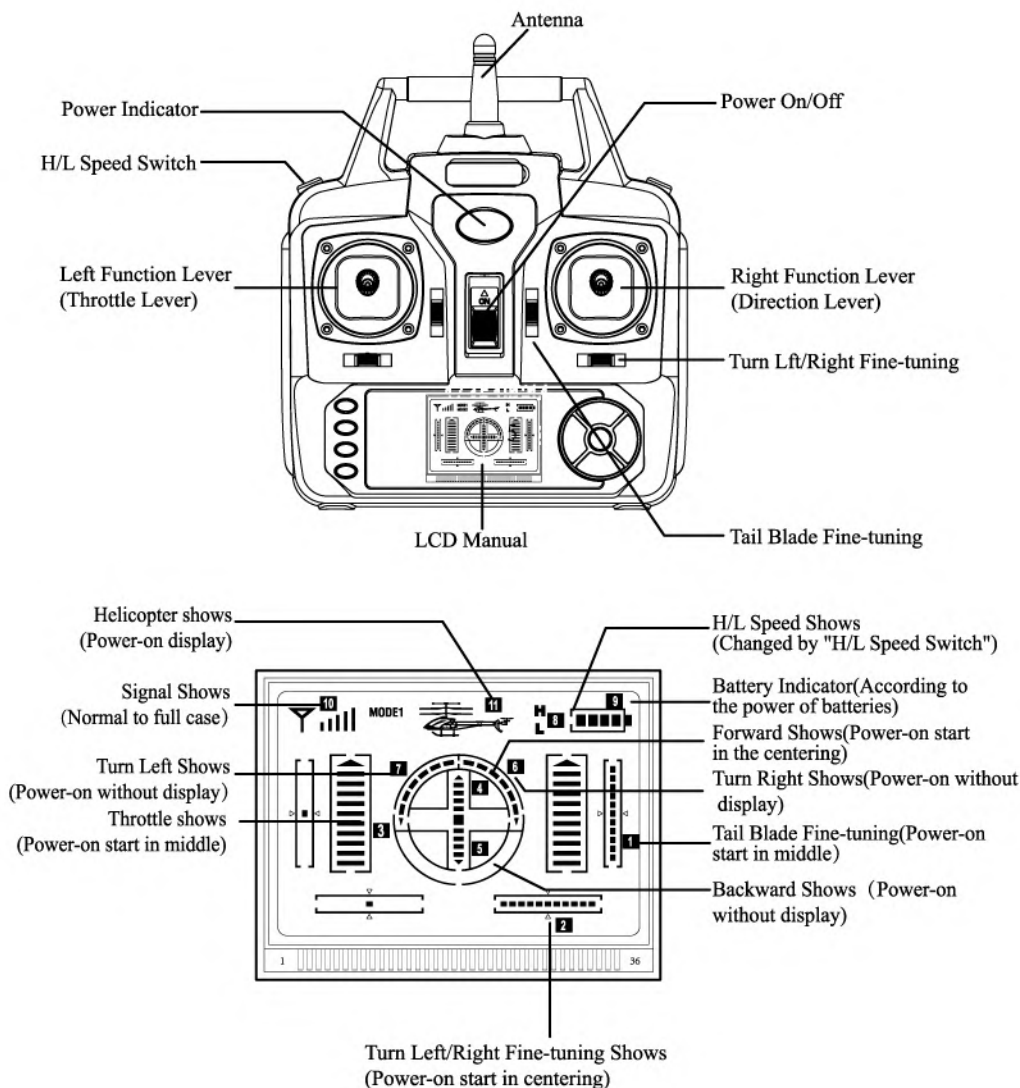
Balance charging (Iron core device)

Put the charger into outlet charger, join again charger and balance charging box, the red light in balance charging at this moment. Filling the balance charger with the battery slot connection, balance charger with green light at this moment. When the green LED put out the recharging finishes. Charging time for the helicopter about 160~170 minutes, the flight time about 6 minutes

Iron core device charging time: can be 160~170 minutes flying about 6 minutes

- Helicopter 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 or 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 the battery 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.

Remote Control Keypad and LCD



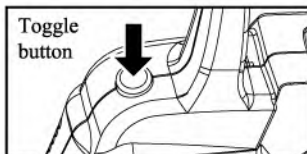
Helicopter control ways

Turn left



Pushed the right stick (steering stick) to the left, the head of helicopter turns to left.

Toggle button



Build with two modes to both beginner and advanced.

1. Beginner mode (The default settings)
2. Advanced mode: Press the button on top left of controller, enter or exit from the mode. Advanced mode brings more pleasure to you!

Forward



Push up the right stick (steering stick), the nose incline to down, the helicopter is moving to forward.

Turn right



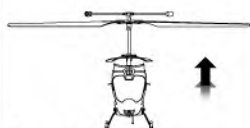
Pushed the right stick (steering stick) to the right, the head of helicopter turns to right.

Backward



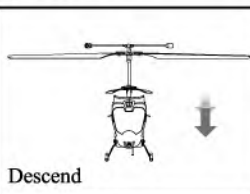
Push down the right stick (steering stick), the nose incline to up, the helicopter is moving to backward.

Ascend

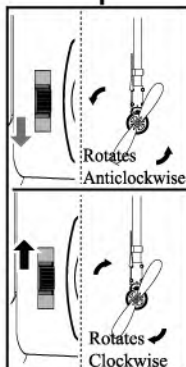


Push up the left stick (throttle stick), the spinning speed of the main rotor blade is increase and the helicopter begin to ascend.

Descend

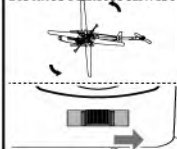


Push down the left stick (throttle stick), the spinning speed of the main rotor blade is decrease and the helicopter begin to descend.

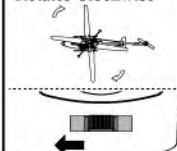


In hovering, when the tail blade rotates clockwise anticlockwise, please use this button for fine-tuning as figure shows.

Rotates Anticlockwise



Rotates Clockwise



When the helicopter lose hovering with automatic anticlockwise/clockwise rotation, please use the right/left inching switch you keep balance.

Maintenance program

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

Spare parts list

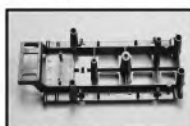
Order by item number from local distributors.



S31-01
Head cover



S31-02
Main frame



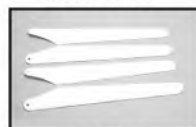
S31-03
Base



S31-04
Battery case



S31-05
Ascend and descend



S31-06
Main blades



S31-07
Tail blade



S31-08
Connect buckle



S31-09
Top blades grip set



S31-10
Under blades grip set



S31-11
Tail decoration



S31-12
Balance bar



S31-13
Gear



S31-14
Connect gear set



S31-15
Light circuit



S31-16
Metal frame set



S31-17
Main shaft



S31-18
Inner shaft tube



S31-19
Tail hold tube



S31-20
Bearing



S31-21
Motor A



S31-22
Motor B



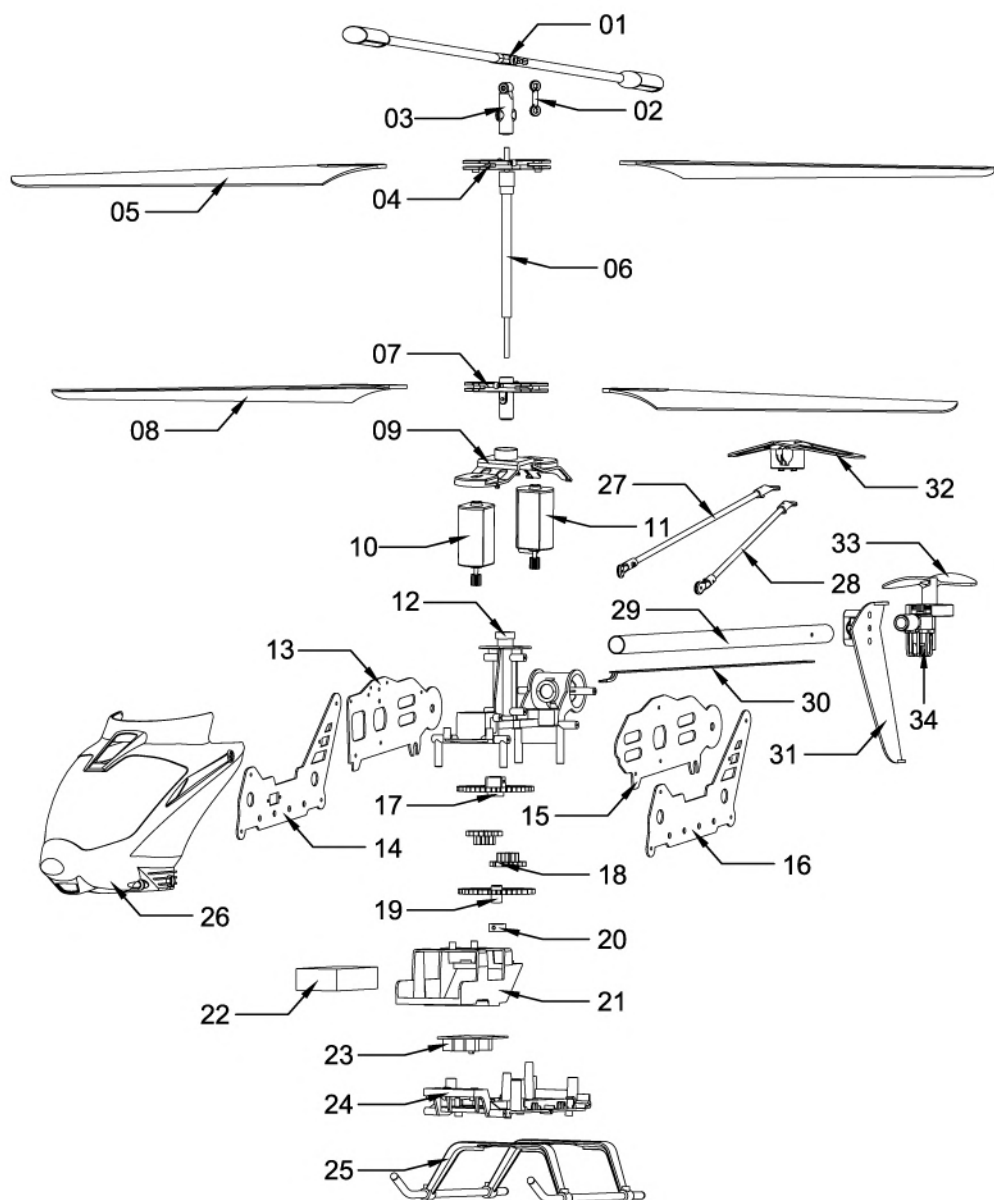
S31-23
Tail motor set



S31-24
3.7V Li-Poly



S31-25
Circuit board



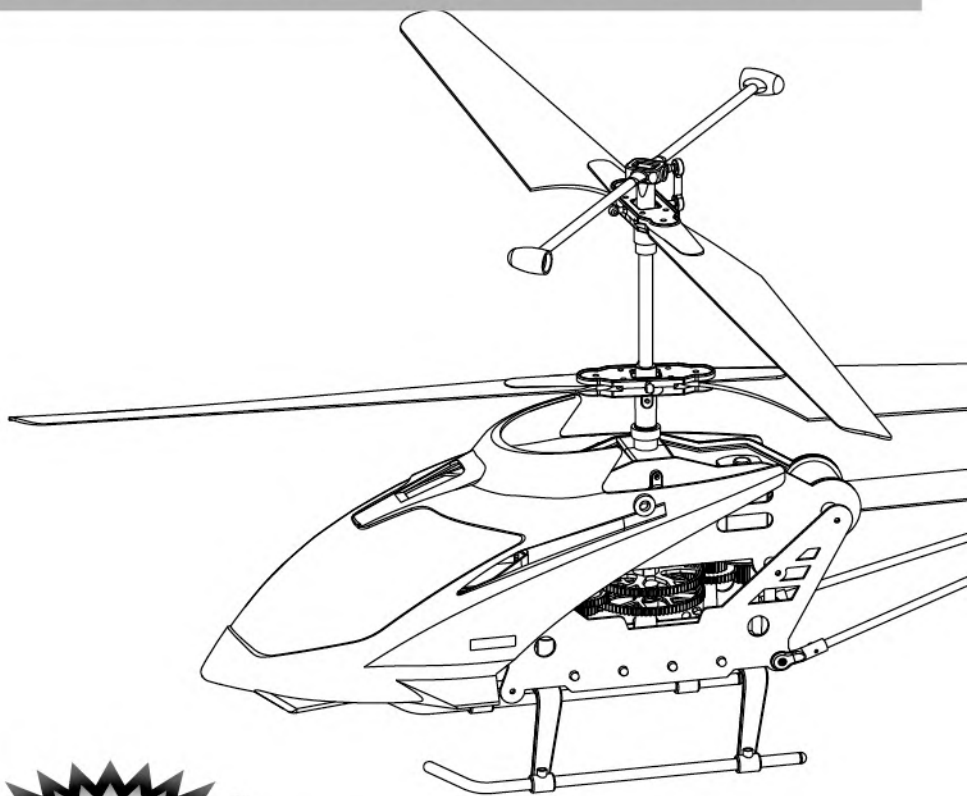
AGE 14+

遥控直升机使用说明书

三通道陀螺仪遥控系列

S31

遥控直升机



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。

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，应先关闭遥控器电源，再走近直升机关闭飞机电源。
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. 将直升机的电源开关由“OFF”拨向“ON”处，这时探照灯亮起，直升机的状态指示灯快速闪烁；将直升机平放在地上几秒后，直升机即可进入预备起飞状态。
3. 打开遥控器电源开关，这时遥控器的状态指示灯呈闪烁状态，然后向上推动上升/下降变速操纵杆到最顶，再将其拉回最低端；遥控器的状态指示灯呈常亮，表示遥控器已进入预备起飞状态。
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。

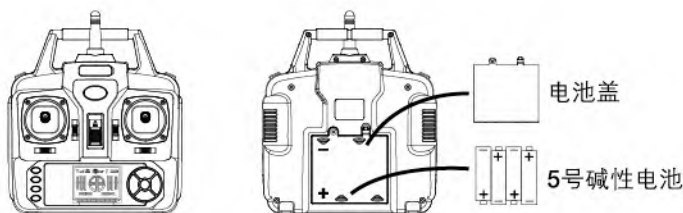
过流保护：当直升机风叶在旋转状态下，受到碰撞或卡住时，直升机电路进行过流保护。

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. 切勿将些玩具浸在水中，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。

组装遥控器及直升机充电

组装遥控器

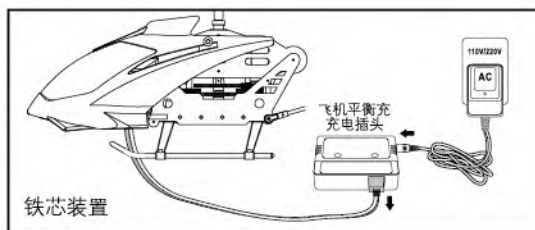
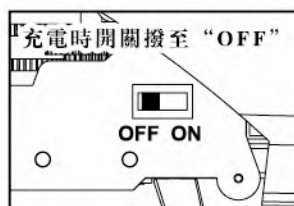


1. 电池的安裝方法：打开遥控器背面的电池盖，依照电池箱的电极指示正确地放入4节5号碱性电池(电池须另购)。



1. 装电池时必须认准正负极与电池盒正负极，切不能装反。
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



平衡充充电（铁芯装置）

先将充电器插入电源座中，再连接充电器与平衡充电盒，此时平衡充电盒的红灯亮。把平衡充与电池充电槽连接，此时平衡充上的绿灯亮。当绿灯熄灭时表示充电完成。飞机充电时间约160~170分钟。飞行时间约在7分钟以上。

铁芯装置充电时间160~170分钟可飞行约七分钟以上！

- 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。

直升机操控指引

左转

将方向杆推向左边直升机则向左转。

快慢档

该机具有初学者及能手两飞行模式
1.初学者模式（出厂默认模式）
2.能手模式：按下遥控器的左上方切换开关，飞机就进入能手模式；让你增加飞行乐趣。

前进

当右操纵杆（转向舵）向上推，直升机则向前前进。

右转

将方向杆推向右边直升机则向右转。

后退

当右操纵杆（转向舵）向下推，直升机则向后后退。

上升

当左操纵杆（油门）向上推，直升机上升。

下降

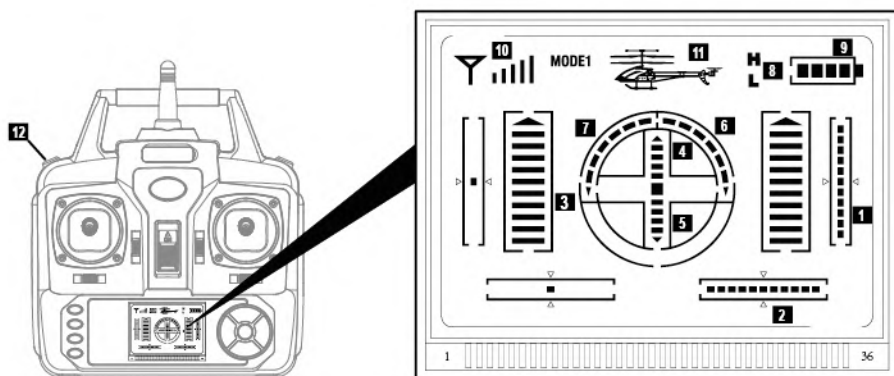
当左操纵杆（油门）向下推，直升机下降。

顺时针转

逆时针转

当直升机在空中悬停状态下出现顺时针或逆时针旋转时，可调整遥控器上的微调按钮使其平衡。（方法如图所示）

遥控按键与液晶显示功能介绍



- 1** 前进后退微调：开机后显示在中点。
- 2** 左右转向微调：开机后显示在中点。
- 3** 油门显示：开机时显示在最低点。
- 4** 前进显示：开机时显示在最低点。
- 5** 后退显示：开机时显示在最低点。
- 6** 右转：开机时无显示。
- 7** 左转：开机时无显示。
- 8** 快慢档显示：开机默认慢速档，按一下12后才变换为快速档。
- 9** 电池容量显示：根据实际电池容量显示相应的格数。
- 10** 信号显示：显示信号强弱。
- 11** 飞机显示：开机默认显示。

注意

当关闭飞机或遥控器其中任何一个后，另外一个也必须关闭后重新对码才能飞行

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. 遥控器的通道选择与直升机对码不一致。 4. 直升机陀螺仪没有找到中点。 | 1. 对直升机进行充电。 2. 更换遥控器电池。 3. 关闭遥控器和飞机电源后，重新对码。 4. 将直升机平放在地上，待直升机陀螺仪打到中点后再启动遥控器。 |
| 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）

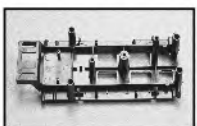
下列是可供选择的配件，为方便客户选购，特出每个部件。可通过当地的经销商购买配件。



S31-01
机头



S31-02
主架



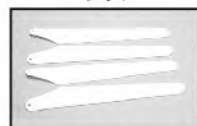
S31-03
底架



S31-04
电池架



S31-05
起落架



S31-06
主风叶



S31-07
尾风叶



S31-08
连接扣



S31-09
上风叶压件



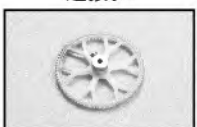
S31-10
下风叶压件



S31-11
机尾饰件



S31-12
平衡杆



S31-13
齿轮



S31-14
连接齿轮



S31-15
灯光电路



S31-16
主架金属件



S31-17
主轴



S31-18
主轴管



S31-19
尾撑管



S31-20
轴承



S31-21
主电机A



S31-22
主电机B



S31-23
尾电机



S31-24
电池



S31-25
接收板

