

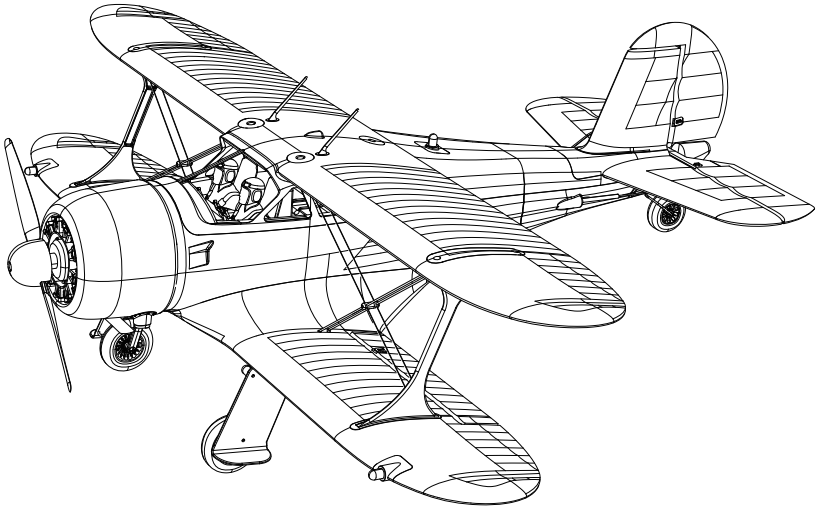


14+

# A300

4 CH 3D6G SYSTEM AIRPLANE

## 快速入门手册



[www.xk-innovations.com](http://www.xk-innovations.com)

# Product introduction

## 产品简介

1. EPP+engineering materials, World War II Deech D17S biplane high simulation camera.
  2. 1806 strong magnetic brushless motor with super power. 2g high-precision digital steering gear, quick response and fast locking.
  3. The remote control is controlled by an independent potentiometer, which makes the control feel more accurate and comfortable.
  4. The aircraft adopts 6-axis gyroscope, attitude locking and 3D/6G mode conversion, which is suitable for flight in different scenarios. Air mode conversion, which also combines beginner mode and stunt flight mode. The blades, motors and wings can be removed for easy replacement.
  5. The aircraft has multiple flight modes
    - 1) Outdoor 6G level flight mode: the default mode for takeoff is 6G self-stabilization mode. The gyroscope self-stabilization and heading locking are very suitable for beginners to practice flying in fixed-wing mode.
    - 2) Outdoor stunt mode: after the plane flies horizontally in the air, the button switch switches to 3D or advanced mode, and the plane enters 3D stunt or advanced mode (3D locking mode). Both modes can easily perform stunt actions such as tumbling death spiral.
  6. The fuselage with LED lights can fly at will even at night, and the remote control can also control the lights with one button.
  7. The landing gear is installed in the front and rear rubber clip slots, which can be used for taxiing and landing under special circumstances, and can also be used for outdoor taxiing and takeoff, directly entering the fixed-wing mode.
  8. High capacity, high magnification 7.4V 600mAh 25C lithium polymer battery, glide flight time about 8minutes.
  9. Aircraft, remote control low alarm, more effective protection of the battery. In the course of flight can be ahead of the safe landing, to avoid overcharging the battery caused by flight loss. The flight control added a new function to prevent loss. When the aircraft flies out of the remote control effective distance, it will enter a hovering state in the air. If the remote control is not operated, the aircraft will maintain the current altitude and fly from the maximum radius to the minimum radius, the plane will land automatically before the battery runs out.
  10. The frame adopts the structure of quick installation and disassembly, and is easy to carry.
1. EPP+工程材料，二战Deech D17S双翼机高仿真像真机。
  2. 1806 强磁无刷电机，动力超强强劲。2g高精度数字舵机，反应迅速，快速锁定。
  3. 遥控采用独立电位器控制，操控手感更加精确、舒适。
  4. 飞机采用6轴陀螺仪、姿态锁定，3D/6G模式转换，适合不同场景飞行。空中模式转换，更兼备初学模式和特技飞行模式。风叶、马达、机翼可拆卸便于更换。
  5. 飞行器有多个飞行模式
    - 1) 室外6G平飞模式：起飞默认进入6G自稳模式，陀螺仪自稳，航向锁定，非常适合初学者固定翼模式练习飞行。
    - 2) 室外特技模式：飞机空中水平飞行后，按钮开关切换3D或高级模式，飞机进入3D特技或高级模式（3D锁定模式），两种模式都可以轻松做出筋斗 死亡螺旋等特技动作。
  6. 机身加上LED灯即使在夜晚也可以随心所欲飞行，遥控还可以一键控制灯光。
  7. 前后舵卡槽安装起落架，特殊情况下进行滑行降落，也可以适用于室外滑行起飞，直接进入固定翼模式。
  8. 高容量、大倍率7.4V 600mAh 25C锂聚合物电池，滑翔飞行时间约8分钟左右。
  9. 飞机、遥控低电报警，更有效的保护电池不过放。在飞行过程中可提前安全降落，避免电池过放导致飞丢。飞行新增预防丢失功能，当飞机飞出遥控有效距离会在空中进入盘旋状态，如果不操作遥控器，飞机将保持当前高度从最大半径到最小半径盘旋飞行，当电池的电量将耗尽前，飞机将会自动着陆。
  10. 机架采用快速安装与拆换结构，便于携带。

## Basic parameters and configuration

### 基本参数及配置

#### Parameter:

1. Wingspan: 550mm
2. Full length: 487mm
3. Flying full weight: 240g
4. Body material: EPP
5. Gliding world: about 8 minutes

#### 参数:

1. 翼展: 550mm
2. 全长: 487mm
3. 飞行全重: 240g
4. 主体材质: EPP
5. 滑翔飞行时间: 约8分钟

#### Configuration:

1. Battery: 600mAH 25C 7.4V
2. Remote controller: 4 channels

#### 配置:

1. 电池: 600mAH 25C 7.4V
2. 遥控器: 4通道

# Packing list

## 包装清单

No. 序号	Name 名称	Quantity 数量	No. 序号	Name 名称	Quantity 数量	No. 序号	Name 名称	Quantity 数量
1	Color box 彩盒	1	8	Cross screwdriver 十字螺丝刀	1	14	Battery 电池	1
2	Foam box 发泡盒	1	9	Open spanner 开口扳手	1	15	USB charging cable USB充电线	1
3	Instruction 说明书	1	10	1.5 Allen wrench 1.5内六角扳手	1	16	Screw 1.7*8PB 螺丝	7
4	Body 机身	1	11	Remote controller 遥控器	1	17	Blade 桨叶	1
5	Upper wing 上机翼	1	12	Left / right / rear landing gear 左/右/后起落架	1	18	Screw 1.5*5PB螺丝	8
6	Lower wing 下机翼	1				19	Decorative pieces 装饰件	2
7	Horizontal tail 平尾	1	13	Vertical tail 垂尾	1			

## Safety precautions

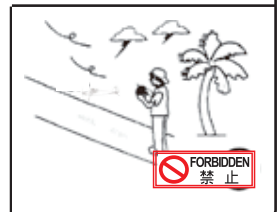
### 安全注意事项

A model remote control aircraft is a dangerous commodity. It must be kept away from the crowd when flying. It must be improperly assembled or damaged by human beings. It must have poor electronic control equipment and be unskilled in handling, may lead to unexpected accidents such as flight out of control damage, please be aware of the flight safety of the pilot, and need to understand self-negligence caused by any accident responsibility.

遥控器模型飞机，属于危险性商品，飞行时务必远离人群，人为组装不当或机件损坏，电子控制设备不良，以及操控上的不熟练，都有可能致飞行失控损伤等不可预期的意外，请飞行者务必注意飞行安全，并需了解自负疏忽所造成任何意外之责任。

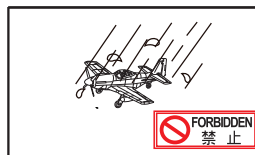
This product is suitable for outdoor and under wind condition less than Grade 4. When flying model aircraft, please select the proper outdoor space without obstacles, and maintain an appropriate distance away from the crowd or pet, do not operate in an unsafe environment, such as heat, wires, power supplies, to avoid collision, landing, entangled and cause a fire, electric shock or other hazardous loss of life and property.

本产品适合户外且风力小于4级条件下飞行，模型飞机飞行时请妥善选择无障碍物的室外场地，并与人群或宠物等到保持适当距离，切勿於不安全的环境下操作，如热源、电线、电源等等，以免像真机碰撞、迫降、纠缠而引发火灾、电击等危险，造成生命财产损失。



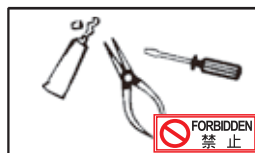
Airplane internal is made up of many precision electronic parts, it is absolutely necessary to prevent from moisture or water vapor, to avoid using in bathroom or rainy day, to prevent moisture from entering the inside body or electronic components and cause by unexpected danger!

机内部也是由许多精密的电子零件组成，所以必须绝对的防止潮湿或水汽，避免在浴室或雨天时使用，防止水汽进入机身内部而导致机体及电子零件故障而引发不可预期的意外！



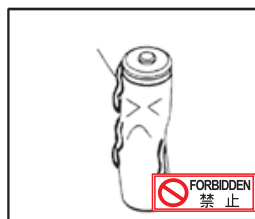
Do not disassemble, process, modify, upgrade or repair arbitrarily, please use parts in catalogue to ensure the safety of the structure. Make sure the operating clearance in the product, do not overload use, and do not use out of security, law or regulation or other illegal purposes.

请勿任意拆卸或任意改造加工，任何的升级改造或维修，请使用本产品目录中的零件，以确保结构的安全。请确认於产品限界内操作，请勿过载使用，并勿用於安全、法令外其他非法用途。



Make sure that the positive and negative electrode position are correct, do not mix old and new batteries to avoid affecting the battery life. Batteries should be taken out if don't use for long time to avoid liquid leakage or any fault. If battery leakage do not use any more. Discarded appliances, please recycle according to the country or regional Waste Disposal Act of recycling, not to be discarded in order to avoid any pollution of the environment.

安装电池时请确认正负极位置新旧电池请勿同时混用以影响电池寿命。若长时间不使用本产品，请取出电池，以免造成电池漏液、故障。若电池有漏液状况请勿再使用。废弃的电器，请依照该使用国家或地区的废弃物清理法令回收，切勿任意丢弃以免污染环境。

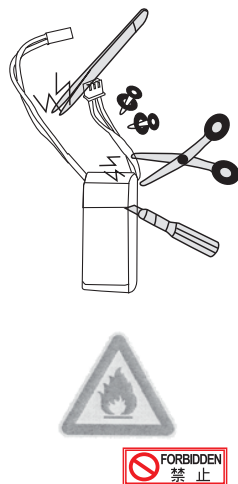


Lipo battery is more dangerous than any other battery. Be sure to read the following precautions before use and follow precautions when using this battery, the Company will not be liable for any damages caused by improper use.

- (1. Do not use the charger to charge other than the original, in order to avoid the risk of explosion and fire occurred.
2. Do not crash, disassemble, reverse polarity, burning, avoid the metal object to touch the battery positive and negative which will cause short circuit. And prevent sharp objects to pierce the battery to avoid the risk of fire.
3. When charging, please be careful to ensure it charges in your sight. And away from children for touching to avoid danger.
4. If battery fevers, charging is forbidden. Otherwise it will cause the battery to swell, deform or even explode on fire, endangering the safety of life and property.
5. Waste batteries to use in strict accordance with the country's recovery Waste Disposal Act, so as not to pollute the environment. )

锂聚电池较与其他电池有更高的危险性，使用前请务必详读并遵照下列注意事项使用本电池，本公司将对任何不当使用所造成的损害负责。

1. 严禁使用原厂以外的充电器进行充电，以免发生爆炸起火的危险。
2. 严禁撞击、拆解、正负极反接、焚烧电池，避免金属物品碰触电池正负极造成短路。并请防止尖锐的物品刺穿电池，以避免电池起火的危险。
3. 充电时请谨慎小心，确保在您的视线范围内进行充电。并远离幼童可以接触的地方，以免发生危险。
4. 电池使用后如有发热情况，严禁充电。否则会造成电池膨胀、变形、爆炸甚至起火燃烧，危害生命财产的安全。
5. 废弃的电池请严格依照该使用国家或地区的废弃物清理法令回收，以免污染环境。）



Keep away from heat and sunlight as much as possible to avoid deformation due to high temperatures or even the possibility of melting damage.

要尽量远离热源、日晒、以避免因高温而变形甚至熔毁损坏的可能。



This product uses ages over 14 years old, remote control glider has a certain degree of difficulty in the early stage of learning, want to skillfully control the model glider above the simulator can fly.

本产品适用年龄14岁以上，遥控滑翔机在学习初期有着一定难度，需要熟练操作模拟器上面的模型滑翔机可飞行。

## Installation procedure

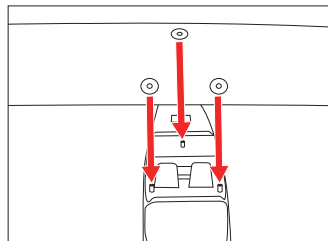
### 安装步骤

#### 1. Install the upper wing

##### 1. 安装上机翼

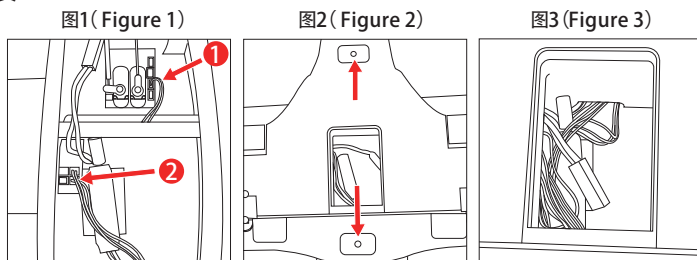
Align the upper wing with the three locating posts on the upper fuselage and install them in place, and then lock three 1.7 \* 8PB screws with a cross screwdriver.

将上机翼对准机身三个定位柱装到位，然后用十字螺丝刀锁上3颗1.7\*8PB螺丝。



## 2.Install the lower wing

### 2.安装下机翼



① 副翼Y线插座(Aileron Y-line socket)

② 机翼灯线插座, 任意插座都可以(Wing light cable socket, any socket can be used)

Figure 1. First, arbitrarily connect the light line on the wing to the light board, and then plug the Y line of the aileron steering gear into the receiving board (socket beside the electric regulator).

Figure 2. Align the lower wing with the fuselage screw positioning column and lock two 1.7\*8PB screws.

Figure 3. Align the battery slot light line, steering gear line and electric regulating line and lay them on the left.

图1. 先将机翼上灯线任意连接到灯板上, 然后把副翼舵机Y线插到接收板上(电调旁边插座)。

图2. 将下机翼对准机身螺丝定位柱装到位, 锁上两颗1.7\*8PB螺丝。

图3. 把电池槽灯线、舵机线、电调线理顺整齐靠左排放。

## 3. Install the left and right wing struts

### 3.安装机翼左右撑杆

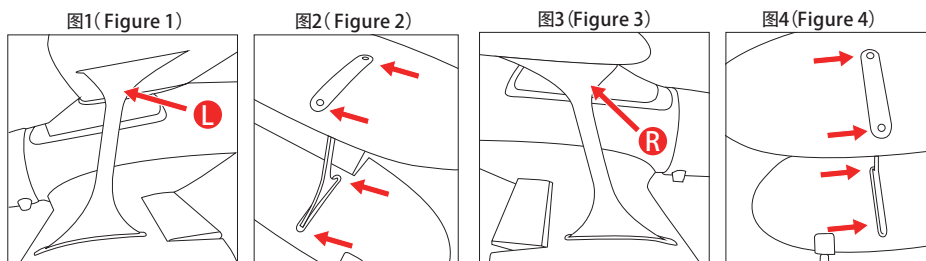


Figure 1. Install the left wing strut L on the left side of the wing as shown in the figure, with the letters L facing up and towards the fuselage.

Figure 2. Lock two 1.5 \* 5PB screws on the upper and lower fixed seats of the brace.

Figure 3. Install the right strut R of the wing to the right of the wing as shown in the figure, with the letter R facing up and towards the fuselage.

Figure 4. Lock two 1.5 \* 5PB screws on the upper and lower fixed seats of the brace.

图1. 将机翼左撑杆L按图所示装到机翼左边, 有字母L那边朝上、朝机身那边。

图2. 在撑杆上下固定座各锁上两颗1.5\*5PB螺丝。

图3. 将机翼右撑杆R按图所示装到机翼右边, 有字母R那边朝上、朝机身那边。

图4. 在撑杆上下固定座各锁上两颗1.5\*5PB螺丝。

#### 4. Install the left and right wing trim

#### 4. 安装机翼左右装饰件

图1 (Figure 1)

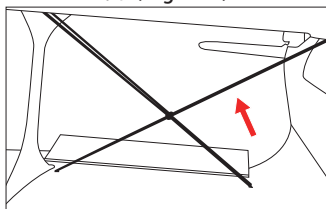


图2 (Figure 2)

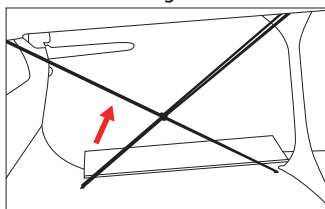


Figure 1. Install the left trim in the middle of the left upper and lower wings as shown in the figure, and align the upper and lower hole positions. The long column is installed upwards and towards the fuselage.

Figure 2. Install the right trim in the middle of the right upper and lower wings as shown in the figure, and align the upper and lower hole positions. The long column is installed upwards and towards the fuselage.

图1.将左装饰件按图所示装到左边上下机翼中间, 对好上下孔位装好。长的柱子朝上、朝机身安装。

图2.将右装饰件按图所示装到右边上下机翼中间, 对好上下孔位装好。长的柱子朝上、朝机身安装。

#### 5. Install the front and rear landing gear

#### 5. 安装前后起落架

图1 (Figure 1)

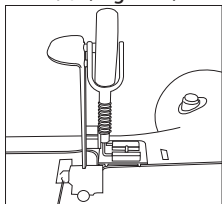


图2 (Figure 2)

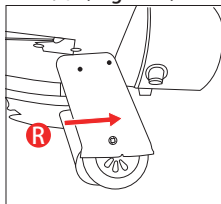


图3 (Figure 3)

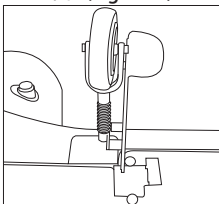


图4 (Figure 4)

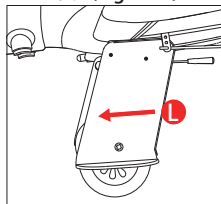


Figure 1. Install the right landing gear into the right landing gear slot of the wing as shown in the figure.

Figure 2. Note that there is R letter on the landing gear baffle, with the baffle facing outward and the oblique angle facing the fuselage head.

Figure 3. Install the left landing gear into the left landing gear slot of the wing as shown in the figure.

Figure 4. Note that there is an L letter on the landing gear baffle, with the baffle facing outward and the oblique angle facing the fuselage head.

Figure 5. Install the rear landing gear into the rubber clip slot at the rear of the fuselage, and pay attention to the steel wire bevel facing back.

图1.将右起落架按图所示装到机翼右边起落架卡槽。

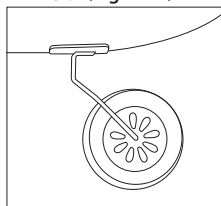
图2.注意起落架挡板上R字母, 挡板朝外、斜角朝机身头。

图3.将左起落架按图所示装到机翼左边起落架卡槽。

图4.注意起落架挡板上L字母, 挡板朝外、斜角朝机身头部。

图5.将后起落架装到机身尾部胶件卡槽, 注意钢丝斜角朝后。

图5 (Figure 5)



## 6. Assembly of flat tail and vertical tail

### 6. 组装平尾、垂尾

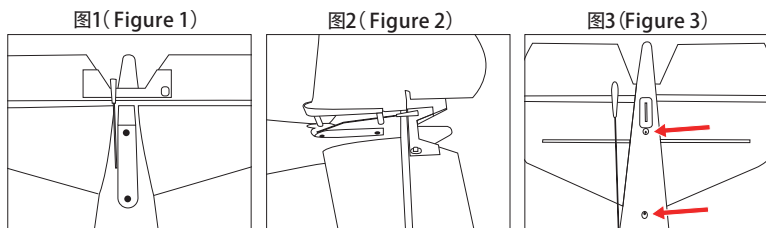


Figure 1. Thread the vertical-tailed steel wire out of the flat-tailed hole, align the flat-tailed wire with the fuselage positioning slot and install it in place.

Figure 2. Align the vertical tail with the locating hole and install it in place.

Figure 3. Lock two 1.7 \* 8PB screws on the fixing vertical screw hole at the bottom of the fuselage.

图1.将垂尾钢丝从平尾孔中穿出,把平尾对齐机身定位槽装到位。

图2.把垂尾对准定位孔装到位。

图3.在机身底部固定垂尾螺丝孔锁上两颗1.7\*8PB螺丝。

## 7. Assemble blade/fairing/install trim

### 7. 组装桨叶/整流罩/安装装饰件

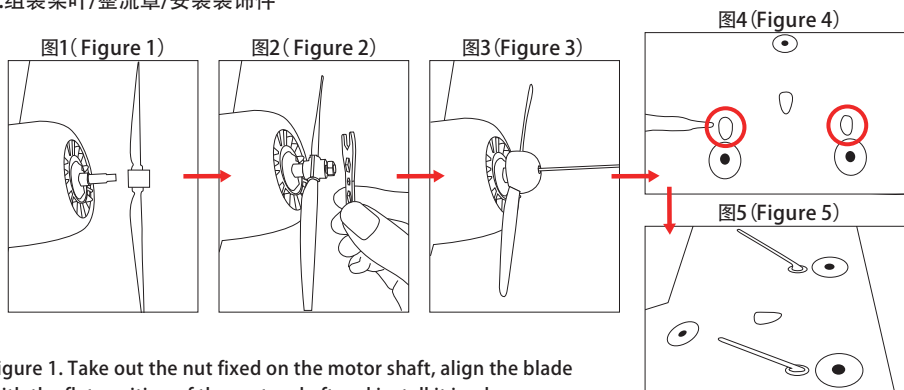


Figure 1. Take out the nut fixed on the motor shaft, align the blade with the flat position of the motor shaft and install it in place.

Figure 2. Tighten the nut with the multi-functional wrench in the accessory package. If the blade vibrates during rotation, it can be taken out and installed in another direction.

Figure 3. Install the fairing onto the motor shaft and screw in a 2 \* 8HM screw with an Allen screwdriver.

Figure 4. Apply proper amount of foam adhesive, silica gel and hot melt adhesive to the two grooves on the upper wing.

Figure 5. Install the wing trim to the groove where the glue is applied as shown in the figure, with the tilt angle towards the rear of the aircraft.

图1.取出固定在马达轴上的螺母,把桨叶对准马达轴扁位装到位。

图2.用配件包里面多功能扳手将螺母拧紧,转动时如果桨叶震动,可以取出换个方向安装。

图3.将整流罩装到马达轴,用内六角螺丝刀拧上一颗2\*8HM螺丝。

图4.在上机翼有两个凹槽位置涂上适量泡沫胶,硅胶、热熔胶都可以。

图5.将机翼装饰件按图所示装到打好胶的凹槽位置,倾斜角度朝飞机尾部方向。



# Frequency 对频

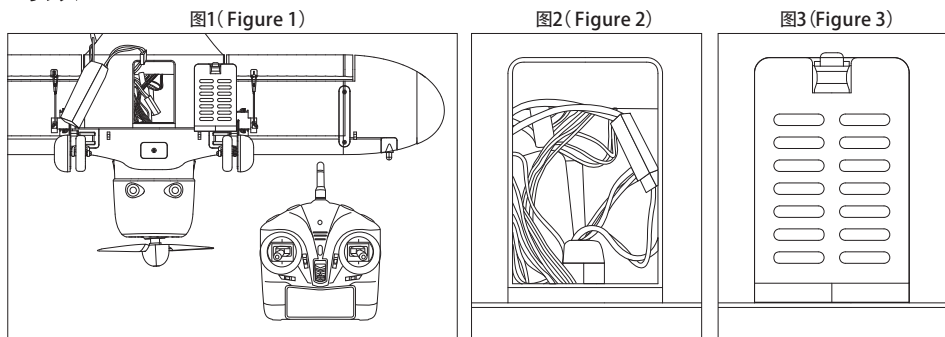


Figure 1. Open the battery cover to power up the aircraft first, and then open the remote control and its frequency alignment. The indicator light on the receiver and remote control is on for a long time, and the frequency alignment is completed.

图1. 打开电池盖先给飞机通电，然后打开遥控器与其对频，接收机跟遥控器上指示灯长亮，对频完成。

Figure 2. Insert the battery into the slot of the aircraft head and put it forward as far as possible.

图2. 将电池塞进飞机头部卡槽里面，尽量往前放到位。

Figure 3. Install the battery cover on the rear cover.

图3. 对好频后盖上电池盖。

## Aircraft control surface adjustment 飞机舵面调节

1. Power on the aircraft and turn on the remote control to align the upper frequency. At this time, the aileron, lift and vertical tail steering engines are in the re turn state.

2. The motor cannot be started when the aircraft is debugging the control surface. The plate gyroscope must be closed. The gyroscope cannot accurately adjust the control surface to the middle position in the repair state.

3. First buckle the vertical tail steel wire at the middle hole of the swing arm, and adjust the rudder surface to the vertical by tightening or loosening the flexible joint. Use the same method to level the horizontal tail, and tighten the transparent heat-shrinkable tube after adjustment.

1. 给飞机通电打开遥控器对频，此时副翼、升降、垂尾舵机都在回中状态。

2. 飞机调试舵面的时候不能启动马达，板陀螺仪要处于关闭状态，陀螺仪在修复状态下不能准确的将舵面调到中间位置。

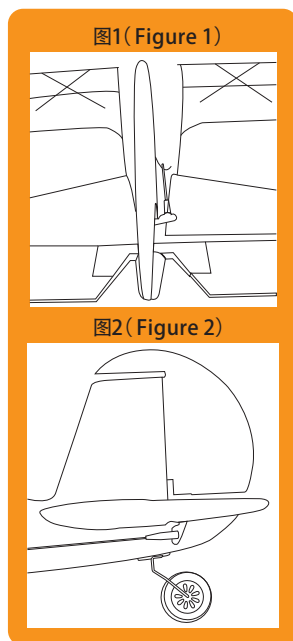
3. 先将垂尾钢丝扣在摆臂中间孔位，通过拧紧或拧松活络接头把舵面调到垂直。用同样方法把水平尾翼调水平，调试好要把透明热缩管拉紧。

Figure 1. Adjusting the vertical tail.

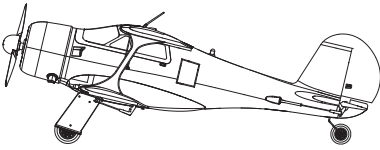
图1. 调垂直尾翼。

Figure 2. Adjusting the horizontal tail.

图2. 调水平尾翼。



## Off the ground 地面起飞

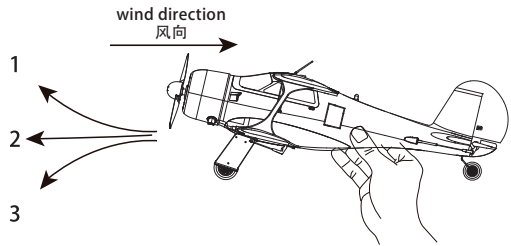


Place a horizontal plane  
放置水平面上

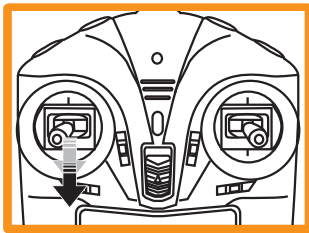
1. Place the aircraft on the ground windward, reconfirmed the presence or absence of each rudder gyrus, rudder direction is correct.
  2. Verify that no problem after the above steps, push the throttle stick gradually slide to 100%, and pulled a light / down rocker, the aircraft off the ground. Push and pull the throttle lever from top to bottom once to unlock it.
- 1.将飞机迎风放在地面，再次确认各个舵面有无回中，舵面方向是否正确。
- 2.确认上述步骤无问题后，轻推油门摇杆滑行逐步加到100%，并轻拉升/降摇杆，使飞机离开地面，将油门摇杆由上到下下拉一次解锁。

## Throw the takeoff 手抛起飞

1. throwing error method  
1.错误投掷方法
2. The correct method of throwing  
2.正确投掷方法
3. throwing error method  
3.错误投掷方法



## landing 降落



The picture shows the  
left hand throttle  
图示为左手油门

When the aircraft landed Please feel underpowered immediately, the first aircraft to fly downwind landing zone adjustment head wind, the throttle down to reduce the flight speed, the plane will slowly slide down until the plane touches the ground, and then pull the throttle to a minimum, taxiing aircraft should be adjusted according to flight attitude, keep the aircraft steady glide.

当飞机飞行时感觉动力不足时请立即降落，首先把飞机飞到下风区调整机头迎风降落，把油门拉低降低飞行速度，飞机便会慢慢向下滑行，直到飞机接触地面，然后油门拉到最低，滑行过程中要根据飞机飞行姿态进行调整，保持飞机平稳滑行。

### Note: 注意:

Falling if these deviate from the rudder to play amended the wind is too large to be controlled from the aircraft downwind areas, so as to avoid excessive wind causing unnecessary losses. To prepare timely power down when the plane landed, not the battery completely run out, again if you need a missed landing improperly leave some power.

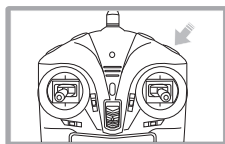
下滑过程中如果航线偏离可打方向舵修正，风力过大时要控制飞机在下风区的距离，以免因风力过大造成不必要的损失。要在飞机动力下降时及时准备降落，不要将电池完全用光，如果降落不当需要再次复飞留有一定电量。

## 3D / 6G mode switch

### 3D/6G模式切换

1. The default is 6G mode, which makes the flight more stable. When you are skilled in flight and want to do stunts, you can press the switch button to 3D mode (Press the button twice in 3D mode, and once in 6G mode). **(The operating system is more sensitive in 3D mode. Please switch the 3D mode when the aircraft is at high altitude to familiarize yourself with the flight and pay attention to flight safety ⚠)**
2. 6G mode: more stable flight, can be summarized the mode of steady and holding when level fly, in this case, plane can only fly flat, can not roll, inverted fly, side fly, somersaults or any other stunts.
3. Special note: this flight modes can be arbitrarily switched by a switch as the following figure, if the aircraft cause emergency in 3D mode, switch to mode of 6G made the aircraft to level flight immediately to reduce the crashes possibility.

1. 开机默认为6G模式，这样飞行更稳定。当你熟练飞行后想做特技动作，可以按下转换按键到3D模式（3D模式按一下按键滴滴两声，6G模式响一声）。（3D模式下操作系比较灵敏，请将飞机高空时切换3D模式，以便熟悉飞行，并注意飞行安全 ⚠）
2. 6G模式：飞行更加稳定，可简单概括为飞机平飞姿态的增稳和保持模式，在此模式下飞机只能平飞，不能做横滚、倒飞、侧飞、筋斗等特技动作
3. 特别说明：飞行中此两种模式可通过如上图中的切换开关进行任意切换，如果飞机在3D模式下出现紧急情况，切换为6G模式可使飞机立即改为平飞，减少摔机的可能性。



## End Flight

### 结束飞行

At the end of the flight, the model aircraft battery safe place inside removed.

Please develop good habits, so as to avoid regret.

结束飞行时，请将模型飞机内的电池安全取下。

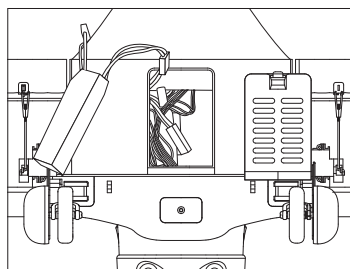
请养成良好的习惯，以免造成遗憾。

### Caveat:

#### 警告:

The battery is not removed, it will cause the battery to excessive discharge damage, and even cause a fire burning danger.

电池未取下，将导致电池过度放电而损坏，甚至造成起火燃烧的危险。



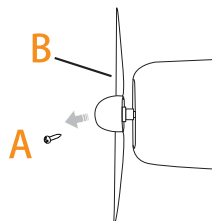
## Replace propeller

### 螺旋桨更换

1. Screw out the fixing cowl screw A counterclockwise with an Allen screwdriver.
2. Screw out the nut fixing the blade counterclockwise with an open-ended wrench or pointed nose pliers and replace it with a new blade B.

1.用内六角螺丝刀逆时针将固定整流罩螺丝拧出A。

2.用开口扳手或尖嘴钳逆时针将固定浆叶的螺母拧出，换上新的浆叶B。



## Replace the fairing 更换整流罩

图1 (Figure 1)

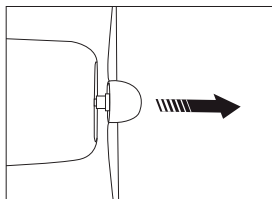


图2 (Figure 2)

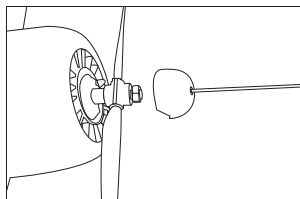


Figure 1. Screw out the screws with a hexagon socket screwdriver and remove the accessories.  
图1.用内六角螺丝刀拧出螺丝，取下配件。

Figure 2. Install the new fairing back to the Mada shaft and screw in the screws.  
图2.将新整流罩装回马达轴，拧上螺丝。

## Motor replacement 马达更换

图1 (Figure 1)

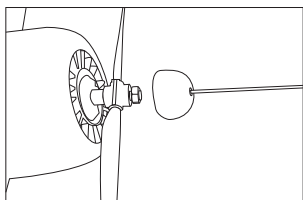


图2 (Figure 2)

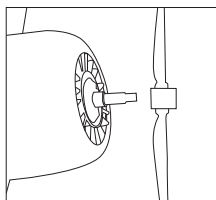


图3 (Figure 3)

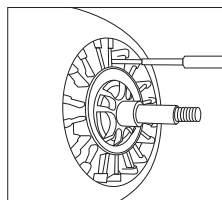


Figure 1. Screw out the screws with a hexagon socket screwdriver and remove the cowling.

Figure 2. Screw out the nut on the opening plate and remove the blade.

Figure 3. Screw out the 2 \* 8PB screws of the lock hood with a cross screwdriver.

图1.用内六角螺丝刀拧出螺丝，取下整流罩。

图2.用开口板上拧出螺母，取下桨叶。

图3.用十字螺丝刀将锁引擎罩2\*8PB螺丝拧出。

图4 (Figure 4)

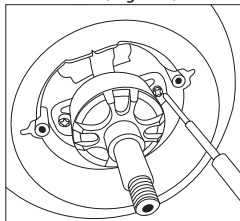


图5 (Figure 5)

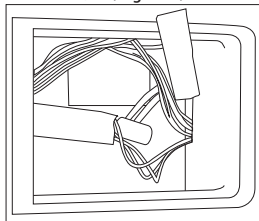


图6 (Figure 6)

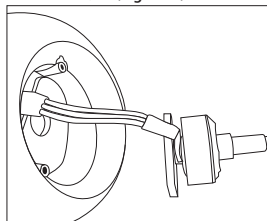


Figure 4. Screw out the 2 \* 10PM screws fixing the motor base with a cross screwdriver.

Figure 5. Pull away the stuck electric regulator, or the line is not long enough when changing the motor.

Figure 6. Remove the broken motor and replace it with a new one.

图4.用十字螺丝刀将固定马达座2\*10PM螺丝拧出。

图5.将粘牢的电调拉开，不然换马达的时候线不够长。

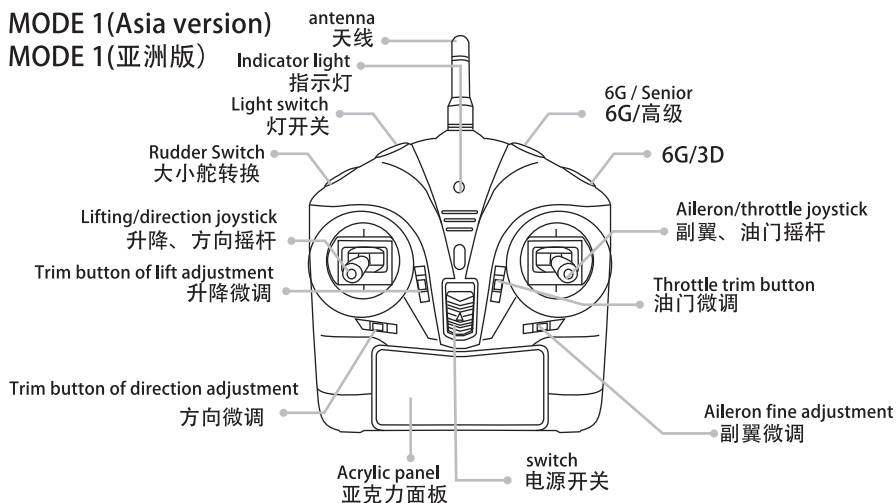
图6.取下坏马达，在换上新的就可以。

## Name of remote controller parts

### 遥控器各部位名称

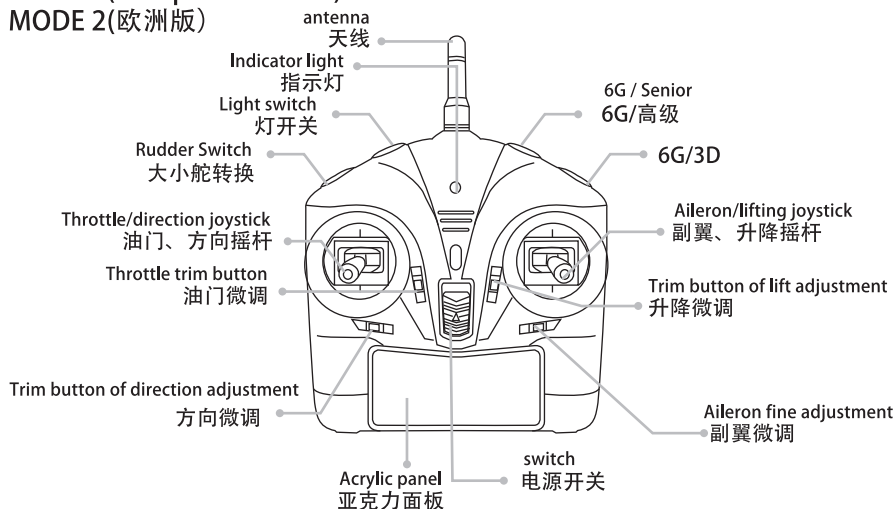
#### MODE 1(Asia version)

#### MODE 1(亚洲版)



#### MODE 2(European Version)

#### MODE 2(欧洲版)

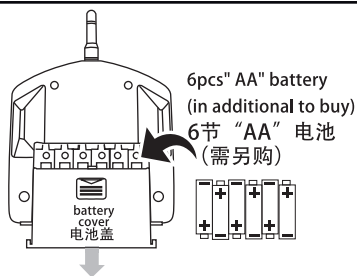


## Transmitter battery installation

### 遥控器电池安装

Put the back of the battery cover down and out, and then install 6 pcs "AA" batteries according to the positive and negative direction correctly. Finally, close the battery cover. (Do not use different types of batteries.)

将遥控器背面的电池盖向下推出，再将6节“AA”电池按正负极方向正确装入后，盖上电池盖。（勿混用不同规格的电



## Alarm sound and throttle unlock

- 1, aircraft low power: remote control buzzer "Tick Tick" two sound cycle alarm, the aircraft indicator lights slow flashing.
- 2, remote control low power: Buzzer continued to tick, tick cycle alarm, lights slow flashing.
- 3, beyond the effective distance of the remote control, signal interference: remote control buzzer "Tick Tick" five consecutive alarm.
- 4, 3d/advanced two modes, with the remote control indicator light flashing quickly, 6G mode long bright.
- 5, the new product throttle protection function, before take-off to the throttle rocker up and down a push and pull to unlock to start the motor.

### 报警提示音及油门解锁

- 1、飞机低电：遥控蜂鸣器“嘀嘀”两声循环报警，飞机指示灯慢闪。
- 2、遥控器低电：蜂鸣器持续响，响循环报警，指示灯慢闪。
- 3、超出遥控器有效距离、信号干扰：遥控蜂鸣器“嘀嘀”连续5声报警。
- 4、3D/高级两个模式，遥控器指示灯快闪，6G模式长亮。
- 5、产品新增油门保护功能，起飞前需将油门摇杆上下推拉一次解锁才可启动马达。

## Left and right hand conversion of remote control

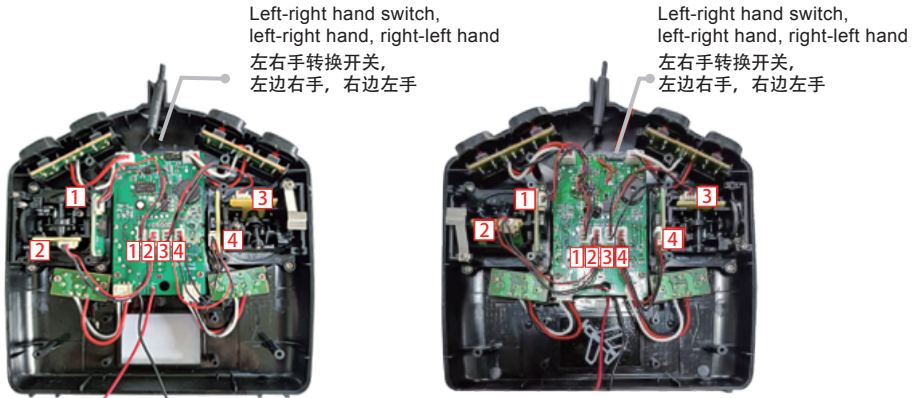
1. Remove the remote control back cover and antenna head screws.
2. Take out the screw of the fixed rocker seat and the plug of the potentiometer, and install the lock screw on the exchange position of the left and right rocker. Plug the cable back into the original position, and then left-right hand switch to the corresponding mode.
3. There is a shrapnel rocker in the throttle direction and a return rocker in the aileron lift.
4. Note: after the conversion must check whether the switch is in the corresponding mode, potentiometer plug do not insert the wrong position.

### 遥控器左右手转换

1. 先将遥控后盖、天线头螺丝取出。
2. 把固定摇杆座螺丝、电位器插头取出，将左右摇杆互换位置安装锁上螺丝。线插头按原来位置插回去，然后把左右手转换开关拨动到相对应模式。
3. 有弹片摇杆是油门方向，回中摇杆是副翼升降。
4. 注意事项：转换后一定要检查开关是否在相对应模式，电位器插头不要插错位置。

## Schematic diagram of conversion operation:

### 转换操作示意图：



**Fig. 1 installation of left hand throttle cable and rocker seat**  
图1左手油门排线、摇杆座安装

**Fig. 2 installation of right-hand throttle cable and rocker seat**  
图2右手油门排线、摇杆座安装

# Matching frequency guide of TX and receiver

## 遥控器与接收机对频说明

Model you bought has completed frequency matching at factory, if need to match frequency again, please follow the following tips:

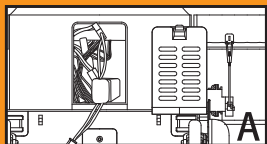
1. Connect the aircraft to the battery first, and keep the aircraft stationary, then turn on the remote control. Pull the throttle lever down to the lowest position.
2. The red indicator on the remote control is on for a long time, the red light of the receiver flashes slowly, and then becomes on for a long time, and the frequency matching is completed.
3. When using the frequency, please avoid the same type of remote control with the same frequency to open, so as not to affect the frequency.

你所购买的模型在出厂前已经完成对频，如果需要重新对频，请按照如下方法对频：

1. 先将飞机连接电池，并保持飞机静止不动，接着打开遥控器。并将油门操纵杆拉倒最下端位置。
2. 遥控器上红色指示灯长亮，接收机红灯慢闪，然后变为长亮，对频完成。
3. 对频时请避免周围有同类型同频率遥控器打开，以免影响对频。

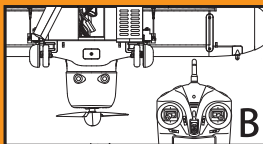
## Pre-flight preparation

### 飞行前准备



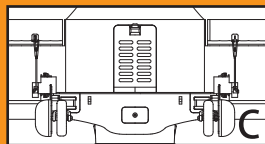
Open the battery cover and connect the battery power line with the electric regulation power line. Note that the red and black lines cannot be reversed.

打开电池盖，将电池电源线与电调电源线连接，注意红黑线不能接反。



Make sure the accelerator rocker is in the lowest position and the other rocker is in the middle position, and then turn on the power switch to adjust the frequency.

确保油门摇杆在最低位置，其它摇杆在中间位置，然后打开电源开关对频。



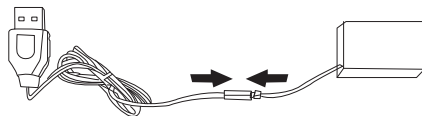
After the frequency is aligned, align the battery cover with the limit card slot and install it in place.

对频后，将电池盖对准限位卡槽装到位。

# USB Charger

## USB 充电器使用

1. Insert the USB charger into the charging stand, and the red light flashes slowly
2. Insert the battery into the USB charging port. At this time, the red light starts to be on for a long time and goes out after the battery is fully charged.
3. The charging time is about 50 minutes.



1. 将USB充电器插入充电座，此时红灯慢闪
2. 将电池插入USB充电口，此时红灯开始长亮，电池充满后红灯灭。
3. 充电时间约50分钟。

### Caveat:

1. To ensure safety, please charge under the supervision of someone.
2. Children should not be charged by themselves and should be charged with the assistance of an adult.
3. Please use the original standard charger of this product for charging. The charger with unknown origin may have a burning explosion accident.

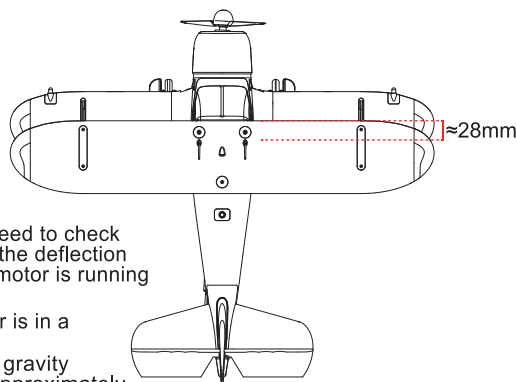
### 警告:

1. 为了确保安全，请在有人监护下进行充电。
2. 儿童不可独自进行充电，要在成人协助下进行充电。
3. 请使用本产品原装标配充电器进行充电，使用来历不明的充电器可能发生燃烧爆炸事故。

## Pre-flight adjustments

### 飞行前调整

1. Turn on the transmitter, put the plane flatly on a clean flat platform, connect power battery, cover battery. Before the motor is running ( in this case the gyroscope is not involved in the work ) need to check if the rudder is in the neutral position, and if the deflection direction is correct, then check whether the motor is running smoothly.
2. Check if the position of aircraft gravity center is in a reasonable range:  
Under normal circumstances, the center of gravity of the aircraft should be within a range of approximately 28mm from the leading edge of the upper wing.

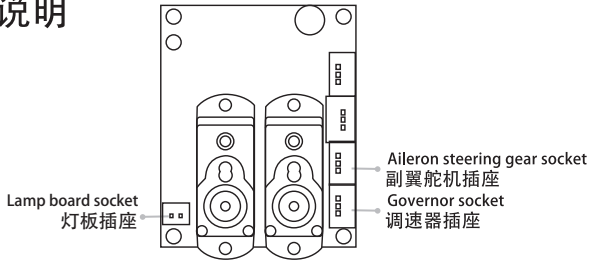


1. 打开发射机，将飞机平放在平整干净的地面或平台上，连接动力电池，盖上电池盖。在电机运行之前（此时陀螺仪未参与工作）需要检查各舵面是否处于中立点位置，且偏转方向是否正确，然后再查看电机运行是否平顺。
2. 检查飞机重心位置是否处于合理范围：  
正常情况下，飞机重心应该处于距上机翼前缘约28mm范围内。



# Receiver plugs introduction

## 接收机插口说明



# Flying operation

## 飞行控制方式

Prohibited to flight before do not understand the control method of this plane. Pls read this Instruction and come to understand until your finger can control the transmitter correctly.

1. Put the model in an open place, and the tail of model face to yourself.
2. Practice operate the joystick of controllr (operate as follow), and repeatedly practice throttle high/ low, left/ right airon, rudder forward/backward and rudder left/right.
3. simulation fight exercises is very important, please repeat do exercise until skillful, the finger can control the plane naturally when orders.

在还没了解模型飞机各动作的操控方式前，严禁实机飞行，请先阅读说明书，熟悉各种方向的操控并不断的重复，直到手指可熟悉的控制各个动作及方向。

1. 将模型飞机放在空旷的地方，并将模型飞机的机尾对准自己。
2. 练习操作遥控器的各摇杆（各动作的操作方式如下图），并反复练习油门高/低、副翼左/右、升降舵前/后及方向舵左/右操作方式。
3. 模拟飞行的练习相当重要，请重复练习直到不需要思索，手指能自然随着喊出的指令移动控制。

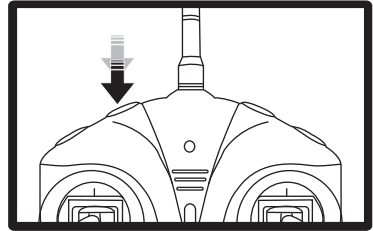
MODE	ICON 图示	MODE	ICON 图示
rise 上升	rudder face up 舵面向上	go down 下降	rudder down 舵面向下
rolling left 左翻滚	up 向上 down 向下	rolling right 右翻滚	up 向下 down 向上
turn left 左转	Rudder left 舵面向左	turn right 右转	Rudder right 舵面向右

# Light control button

## 灯光控制按键

There are three modes of light control: the aircraft is powered on and frequency matched. The default mode is: long on, press the light to flash slowly, and press the light to turn off.

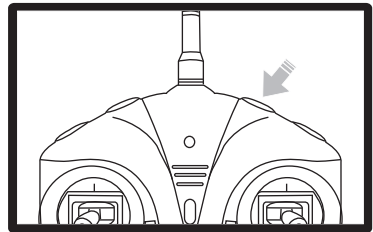
灯光控制有三种模式：飞机通电对频，默认是长亮按一下灯慢闪、在按一下灯关掉。



# 6G/SENIOR(manual mode)

## 6G/高级（手动模式）

The remote start-up defaults to 6G attitude mode, and you can switch to advanced mode by pressing a button. In the advanced mode, the gyroscope is completely turned off and purely manual control. It is recommended to fly the aircraft to a certain altitude and switch to avoid operating errors and reduce the possibility of crashes.



### Precautions:

The operation mode can be switched back and forth by pressing the key. Beginners are recommended to fly in 6G attitude mode.

The advanced mode (manual mode) has higher control sensitivity than 3D mode. After skilled operation, try senior mode.

遥控开机默认为6G姿态模式，通过按一下按键转换高级模式。高级模式是陀螺仪完全关闭纯手动操控状态，建议将飞机飞到一定高度在切换，避免操作失误减少摔机的可能性。

### 注意事项：

通过按键可来回切换操作模式，初学者建议在6G姿态模式飞行，高级模式(手动模式)比3D模式操控灵敏度要高等操作熟练之后在尝试SENIOR模式。

# Troubleshooting guide

## 排除故障及异常情况

Situation 状况	Reason 原因	Countermeasure 对策
After power, aircraft lights flash and manipulate without response. 飞机上电后信号灯闪动, 操作无反应。	Remote control and aircraft match code unsuccessfully. 遥控器与飞机对码绑定不成功。	Re-match code according to steps of matching code showed in page 14. 按第14页内的温馨提醒中的对码绑定步骤重新对码。
After power on, gyroscope began to work before motor starts. 飞机上电后未启动马达陀螺仪就开始工作。	Power on the plane when the throttle stick is not in the lowest position or throttle trim is too high. 飞机上电时油门摇杆未在最低位置或油门微调过高。	Pull throttle stick in the correct position, power on again after the throttle trim is back to the midpoint. 将油门摇杆放到正确位置, 将油门微调回到中点后重新上电。
After power on, the plane does not turn when pushing the throttle, steering lights work properly. 飞机上电后推动油门不转, 信号灯正常舵机工作正常。	The battery is low, speed controller enters shutdown protection. 电池电量过低, 调速器进入关断保护。	Charge the battery or replace the charged battery. 将电池充电或更换有电的电池。
Individual rudder servo block when manipulating the joystick. 摇杆操纵时个别舵机出现卡舵现象。	Aircraft gear teeth appear to sweep. 舵机齿轮出现扫齿。	Replace the faulty steering. 更换有问题的舵机。
Powerful vibration when the motor is running. 马达运转时震动的很厉害。	Blade deformation and motor shaft bending. 桨叶变形、马达轴撞弯。	Replace the damaged blade and motor. 更换坏的桨叶、马达。
Model yaw fly, can not fly straight. 模型飞起来偏舵, 不能直线飞行。	The rudder surface is not in the center position, the foam is deformed, and the remote fine adjustment is not centered. 舵面没有在居中位置, 泡沫变形、遥控微调没有回中。	1. Turn the rudder back to center. 2. Manually repair the foam deformation position, return to the middle of the remote control fine-tuning and restart, and can be adjusted by the remote control fine-tuning during flight. 1. 将舵面回中。 2. 手动修复将泡沫变形位置掰回、遥控微调回中重新开机、飞行中可以通过遥控微调调整。
Plane fly but gyroscope has no reaction, can not repair normally. 飞机飞起来陀螺仪无动作, 不能正常修复。	Gyroscope is out of control. 陀螺仪失灵。	Replace the receiver. 更换接收机。
The plane is still in operation when the plane lands or the throttle stick is in the lowest position. 飞机降落, 或油门摇杆在最低位置, 马达仍在运转。	During flight, mistakenly raised throttle trim. 飞行中误将油门微调调高。	Turn the throttle trim back to the mid-point. 将油门微调调回中点。



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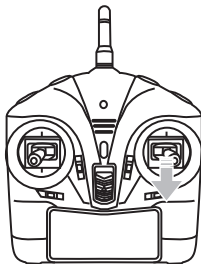
# Special reminder

## 特别提醒

### A300 ground takeoff skills

#### A300地面起飞技巧

1. Place the aircraft on a stable ground facing the wind and the remote control is on. (6-axis mode)
  2. Slowly push the throttle to the 100% position, and then pull down the lift joystick according to the aircraft attitude. At this time, the aircraft will quickly forward until it leaves the ground and keeps its head up to climb. After the flight altitude is 10 meters, slowly release the elevator Rod.
  3. After the aircraft releases the joystick, the aircraft's nose will be slightly downward for less than one second due to inertia, and the head weight will appear. This is caused by the aircraft's inertia. The gyroscope will immediately start to work and immediately keep the aircraft in a stable attitude.
- 1.将飞机迎风放置在平稳的地面，遥控器在开机状态。(6轴模式)
- 2.慢慢将油门推至100%位置，然后升降摇杆根据飞机姿态向下拉，此时飞机快速向前滑行，直至离开地面并保持抬头爬升，待飞行高度在10米后慢慢松开升降摇杆。
- 3.飞机松开摇杆后飞机会因为惯性会出现不到一秒钟机头略微向下，显现头重现象，系飞机惯性导致，陀螺仪会马上开始工作，马上使飞机保持平稳姿态。



#### Anti-loss and low-alarm aircraft

1. Aircraft anti-loss function: when the aircraft in flight beyond the effective distance of remote control or signal interference more serious environment, the remote control will emit three continuous beeps of alarm, at which point the plane will hover to the left and exit when connected to the launch signal. The extent of the wind-affect-ed circle will also change.
  2. Low Alarm: aircraft, remote control added low alarm function, more effective protection of the battery. In the course of flight can be ahead of the safe landing, to avoid overcharging lead to flight loss, crash.
- Note: in the outdoor flight try not to exceed the line of sight, avoid improper operation lost, low alarm should be timely adjust the aircraft attitude ahead of safe landing.

#### 飞机防丢失功能以及低电报警

1. 飞机防丢失功能：当飞机飞行过程中超出遥控有效距离或者信号干扰较严重的环境，遥控器会发出“滴滴滴”5下持续报警声，此时飞机会往左进入盘旋状态，连接到发射信号时自动退出。受风力影响盘旋范围也会随着变化。
2. 低电报警：飞机、遥控新增低电报警功能，更有效的保护电池不过放。在飞行过程中可提前安全降落，避免电池过放导致飞丢、坠机。

注意事项：在室外飞行尽量不要超出视线范围，避免操作不当飞丢，低电报警时应及时调整飞机姿态提前安全降落。

