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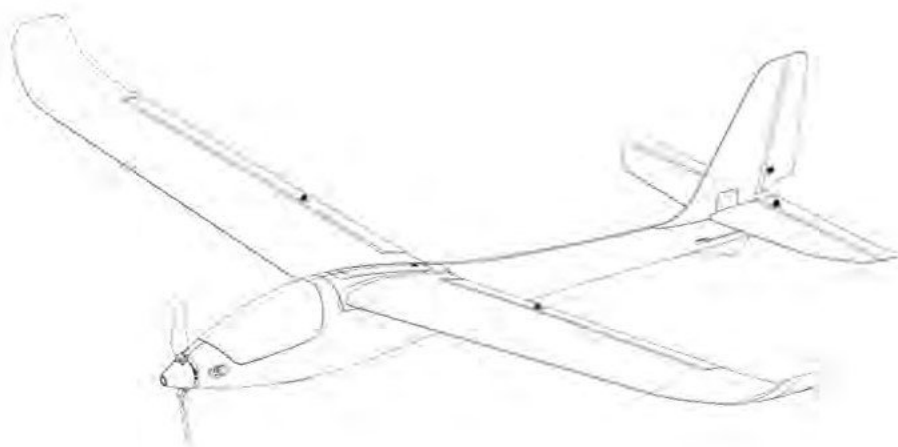
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# XK A800 MANUAL



# A800

5CH 3D6G SYSTEM AIRPLANE



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

## Product introduction

1. Suitable for beginners and expert enthusiasts.
2. Low stall speed, stable flight, easy to control to achieve rolling, inverted flight, somersault and other aerobatic stunts.
3. With 3D 6G mode switch, to ensure the safety or actions of the flight.
4. Modular, user-friendly design, easy to carry and maintain, convenient wing disassembly
5. Advanced version can be equipped with high-definition camera and image transmission module, to achieve three functions of taking photos, videos and real-time transmission.
6. Extensive use of carbon fiber composite materials, to reduce the weight of the structure, meanwhile ensure a good structural strength of the flight.
7. Using standard equipment battery, flight time is up to 20 minutes.

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## Basic parameters and configuration

| Parameter:             |           | Configuration:        |                 |
|------------------------|-----------|-----------------------|-----------------|
| 1. Wingspan:           | 780MM     | 1. Battery:           | 300mAh 20C 7.4V |
| 2. Full length:        | 530MM     | 2. Remote controller: | 5 channels      |
| 3. Flying full weight: | 110g      |                       |                 |
| 4. Body material:      | EPO       |                       |                 |
| 5. Flight time:        | 20minutes |                       |                 |

## Packing list

| No. | Item        | Quantity | Unit | Item              | Quantity | Unit | Item               | Quantity |
|-----|-------------|----------|------|-------------------|----------|------|--------------------|----------|
| 1   | Color box   | 1        | 6    | Right wing        | 1        | 11   | Accessory kit      | 1        |
| 2   | Foam box    | 1        | 7    | Horizontal tail   | 1        | 12   | USB charging cable | 1        |
| 3   | Instruction | 1        | 8    | Vertical tail     | 1        |      |                    |          |
| 4   | Body        | 1        | 9    | Remote controller | 1        |      |                    |          |
| 5   | Left wing   | 1        | 10   | Battery           | 1        |      |                    |          |

## Safety precautions

Remote control model airplanes, a hazardous goods, be sure to stay away from the crowd when you fly, man-made improper assembling or mechanical damage, poor control of electronic equipment, as well as on unskilled manipulation, are likely to lead to out of control flight and other unexpected injuries. Please be sure to pay attention to fly safely, and need to learn any accident responsibility caused for own negligence.

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.



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!



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.

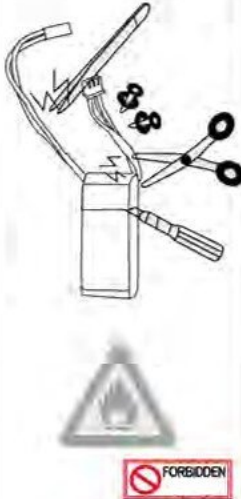



Make sure that the positive and negative electrode position are correct, do not mix old and new batteries to avoid affecting the battery life. Batteries should be taken out if don't use for long time to avoid liquid leakage or any fault. If battery leakage do not use any more. Discarded appliances, please 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.



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.

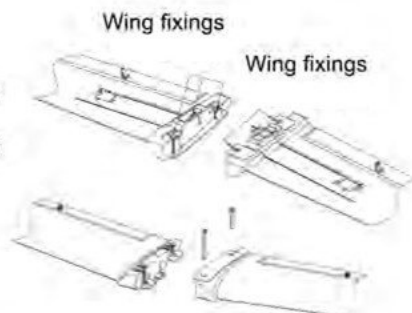
- (1. Do not use the charger to charge other than the original, in order to avoid the risk of explosion and fire occurred.
2. Do not crash, disassemble, reverse polarity, burning, avoid the metal object to touch the battery positive and negative which will cause short circuit. And prevent sharp objects 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. )

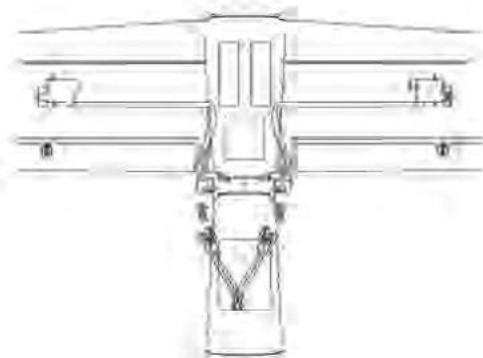
|  |  |
|--|--|
|  |  |
| <p>Keep away from heat and sunlight as much as possible to avoid deformation due to high temperatures or even the possibility of melting damage.</p>   |  |
| <p>This product uses ages over 14 years old, remote control glider has a certain degree of difficulty in the early stage of learning, want to skillfully control the model glider above the simulator can fly.</p> |  |

## Installation procedure

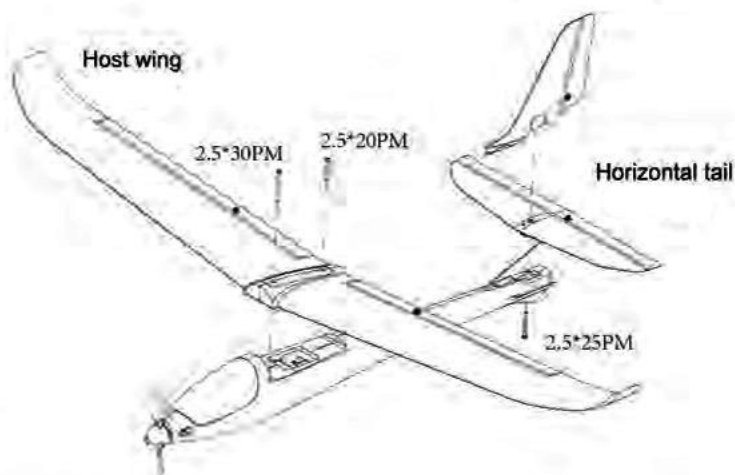
Main wing installation method:

1. Slide the left and right wing fasteners together and slide them together.
2. Ensure that the three fasteners are snapped at the same time;
3. Connect the two servo plugs on the wing to the plug seat of the fuselage;
4. Install the wing on the fuselage and fix the bolt with a screwdriver;





Vertical tail

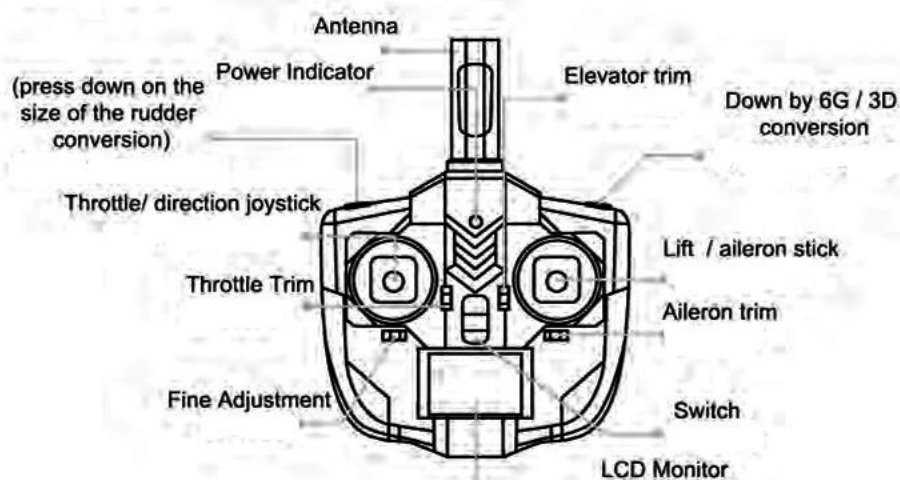


**Tail installation method:**

1. Install the horizontal tailplane in the direction of the fuselage;
2. Install the vertical tailplane on the fuselage;
3. Screw the bolt through the lower fuselage and the horizontal tail fins on the vertical tail rubber piece, then tighten the bolt;
4. The active joints are buckled in the middle hole of the vertical tail and the rocker;

## Name of remote controller parts

### MODE 2(European version)





## Matching frequency guide of TX and receiver

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

1. First, open power of TX, and pull throttle lever to the lowermost position.
2. Connect the power battery, power on the receiver board, the red indicator light on it is on, the frequency is completed
3. Avoid opening TX with same type and same frequency around at the same time so as not to impact on matching frequency.

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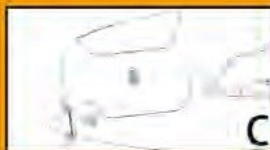
## Pre-flight preparation



First, open the remote control, make sure the throttle stick at the lowest position, the other rocker in the middle position.



Open the battery cover of the battery connector shown in the figure "B" with the battery cover of the connection port connection.



When the battery is connected, the battery into the battery slot, and press in Figure "C" in the battery cover, the self-test to be completed gyroscope, you can fly.

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## Gyroscope calibration cleared

Gyro with temperature changes or the cumulative error makes precision gyroscopes make changes so that the flight had a bias, we recommend the new calibration and cleared gyroscope.

1. Turn the remote control to power on the aircraft, the aircraft will be placed on a flat floor or table.
2. At this time, the red light of the aircraft signal light flashes rapidly. After the red light of the traffic light is on, the calibration of the gyroscope is completed.



## USB Charger

1. Connect the USB charging cable to the computer, and the red light on the charging cable will light up.
2. Connect the battery to the charging cable. The red light will be on and the other green light will flash slowly.
3. When the red and green lights are all on, the battery is fully charged.



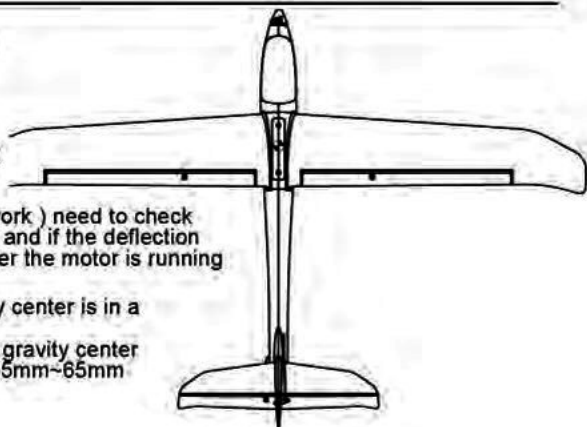
7.4V 300 mAh battery

### Warning:

1. To ensure safety, please charge under guardianship.
2. Children can not charge alone, and should charge in adult assistance.
3. Use the product original standard charger, if using charger of unknown origin that may occur burning or explosion.

## Pre-flight adjustments

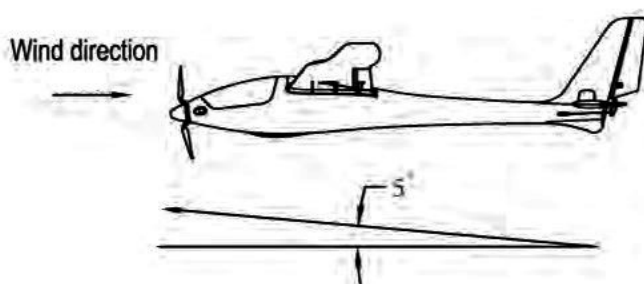
1. Turn on the transmitter, put the plane flatly on a clean flat platform, connect power battery, cover battery. Before the motor is running ( in this case the gyroscope is not involved in the work ) need to check if the rudder is in the neutral position, and if the deflection direction is correct, then check whether the motor is running smoothly.
2. Check if the position of aircraft gravity center is in a reasonable range:  
Under normal circumstances, aircraft gravity center should be located in the range from 55mm~65mm from the wings.



## Hand throwing takeoff right way

As shown in the figure, against the wind, at full power, at an angle of  $5^\circ$ , try to throw the aircraft with force.

(Note: aircraft took off under 6-axis mode, on condition of throwing correctly, the aircraft will automatically default to level off after about 5 seconds of flight climb attitude, after that, it will automatically fly flatly. Since aircraft has function of attitude correction, at this stage as long as the plane did not head drop, it is not recommended pull the elevator rocker. otherwise the plane will fly back down trend.)



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## 3D / 6G mode switch

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 (3D mode remote control slow flashing red). **(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.

## Troubleshooting guide

| Situation  | Reason  | Countermeasure  |
|--|---|---|
| After power, aircraft lights flash and manipulate without response                                   | Remote control and aircraft match code unsuccessfully   | Re-match code according to steps of matching code showed in page 7  |
| After power on, gyroscope began to work before motor starts  | Power on the plane when the throttle stick is not in the lowest position or throttle trim is too high | Pull throttle stick in the correct position, power on again after the throttle trim is back to the midpoint |
| After power on, the plane does not turn when pushing the throttle, steering lights work properly     | The battery is low, speed controller enters shutdown protection                                       | Charge the battery or replace the charged battery   |
| Individual rudder servo block when manipulating the joystick   | Steering gear teeth to be less  | Replace the faulty steering   |
| Powerful vibration when the motor is running   | Blade deformation, untight position between hoop and motor, or hoop broken, motor seat loose          | Replace problematic blades and paddles, secure the paddles, and secure the motor mounts                     |
| Model yaw fly, can not fly straight  | Rudder is not in the center position, gyroscope accumulated error is big                              | 1. Turn the rudder back to center position<br>2. Gyroscope be reset to 0 and adjusted according to Page 7   |
| Plane fly but gyroscope has no reaction, can not repair normally                                     | Gyroscope is out of control   | Replace the receiver  |
| The plane is still in operation when the plane lands or the throttle stick is in the lowest position | During flight, mistakenly raised throttle trim  | Turn the throttle trim back to the mid-point  |



Shenzhen XK Innovations Technology Co., Ltd.

Email: [sales@xk-innovations.com](mailto:sales@xk-innovations.com)