



WEN XIANG

# INSTRUCTION

[HTTP://WWW.WENSTOYS.COM](http://www.wenstoys.com)

Please read carefully before using the model



WGJ180000482



**Note:** In order to learn safely, first flights should be done in a large open area in calm conditions.



1. Never use the model near parking areas when there are cars.



2. Do not use near roads, airports, buildings, power lines, trees, lakes and rivers.



3. Avoid contact with your hair, clothes and even fingers when moving.



4. Do not try to catch the plane while flying, it could lead to injuries.



5. Children under age of 14 should not use the model without parental guidance.



6. Only use alkaline batteries (1.5V, AA, mignon). If you use rechargeable batteries ensure they are fully charged before use, rechargeable batteries might still reduce the range of the controller. Unsuitable batteries can overheat or leak.



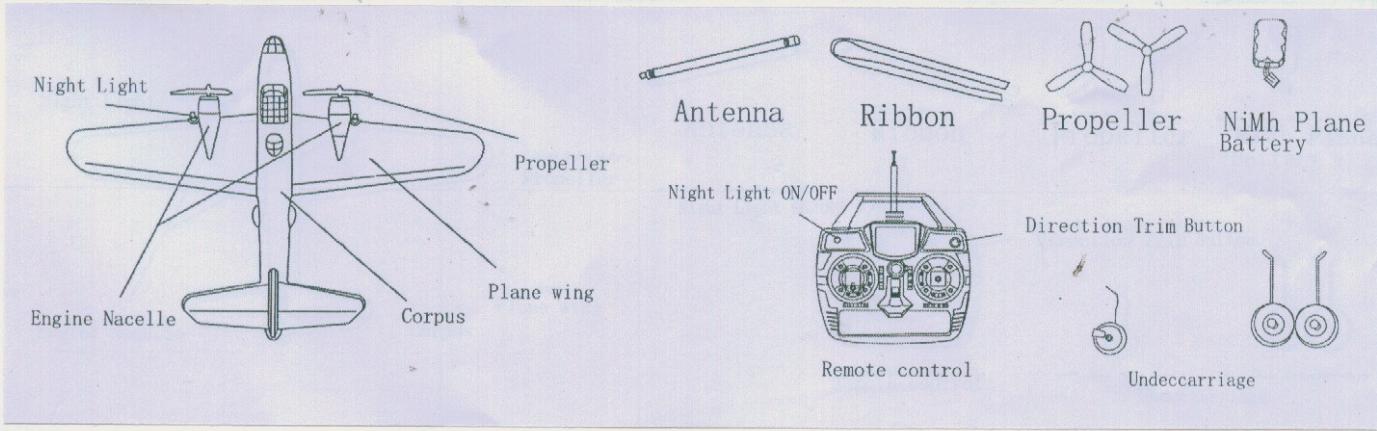
7. Only charge the model with the special charging cable on the transmitter (cable included).



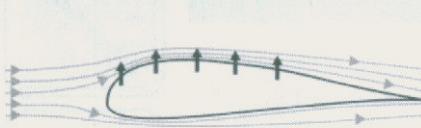
**Important:** Models of the same frequency should not be used in the same range, high voltage wire, radio repeater distribution, etc might affect your model flying. Turn on the transmitter before turning on the plane. After you have finished flying, turn off the plane first, then turn off the transmitter.



## Accessories

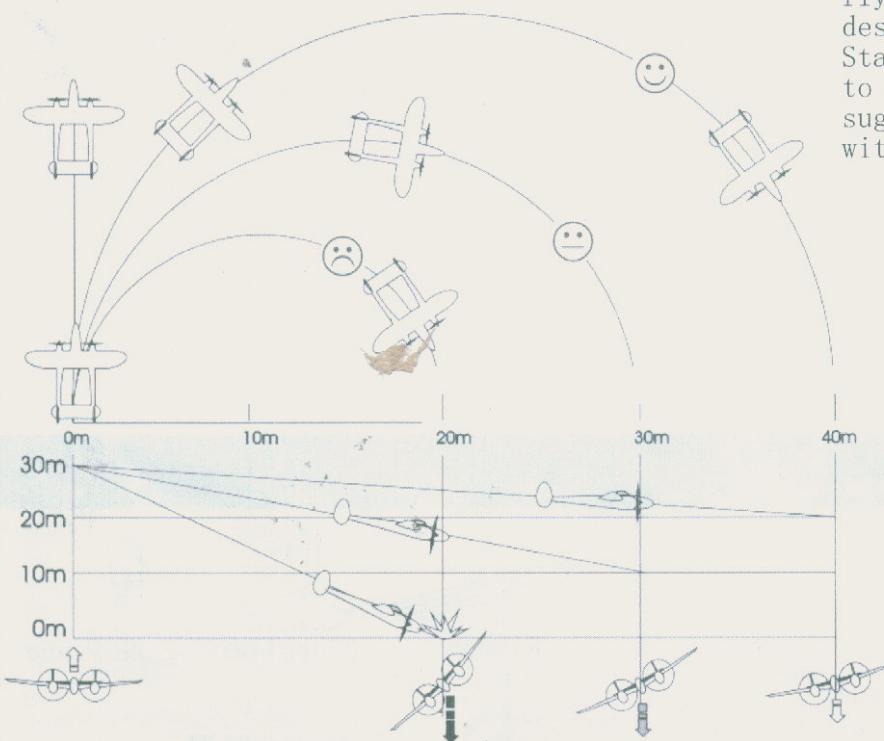
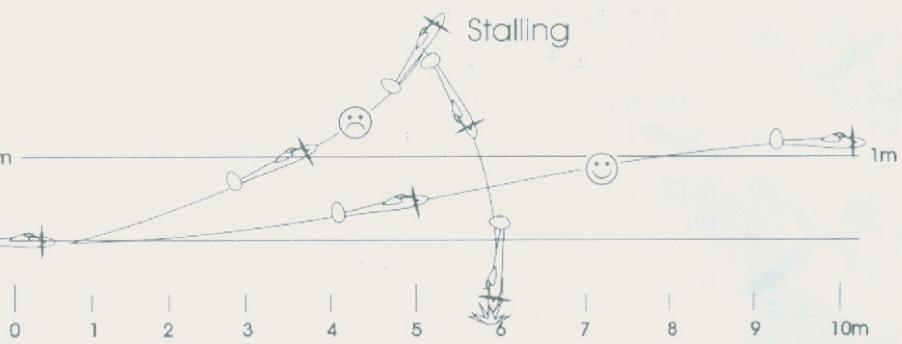


## A plane is carried by the lift.



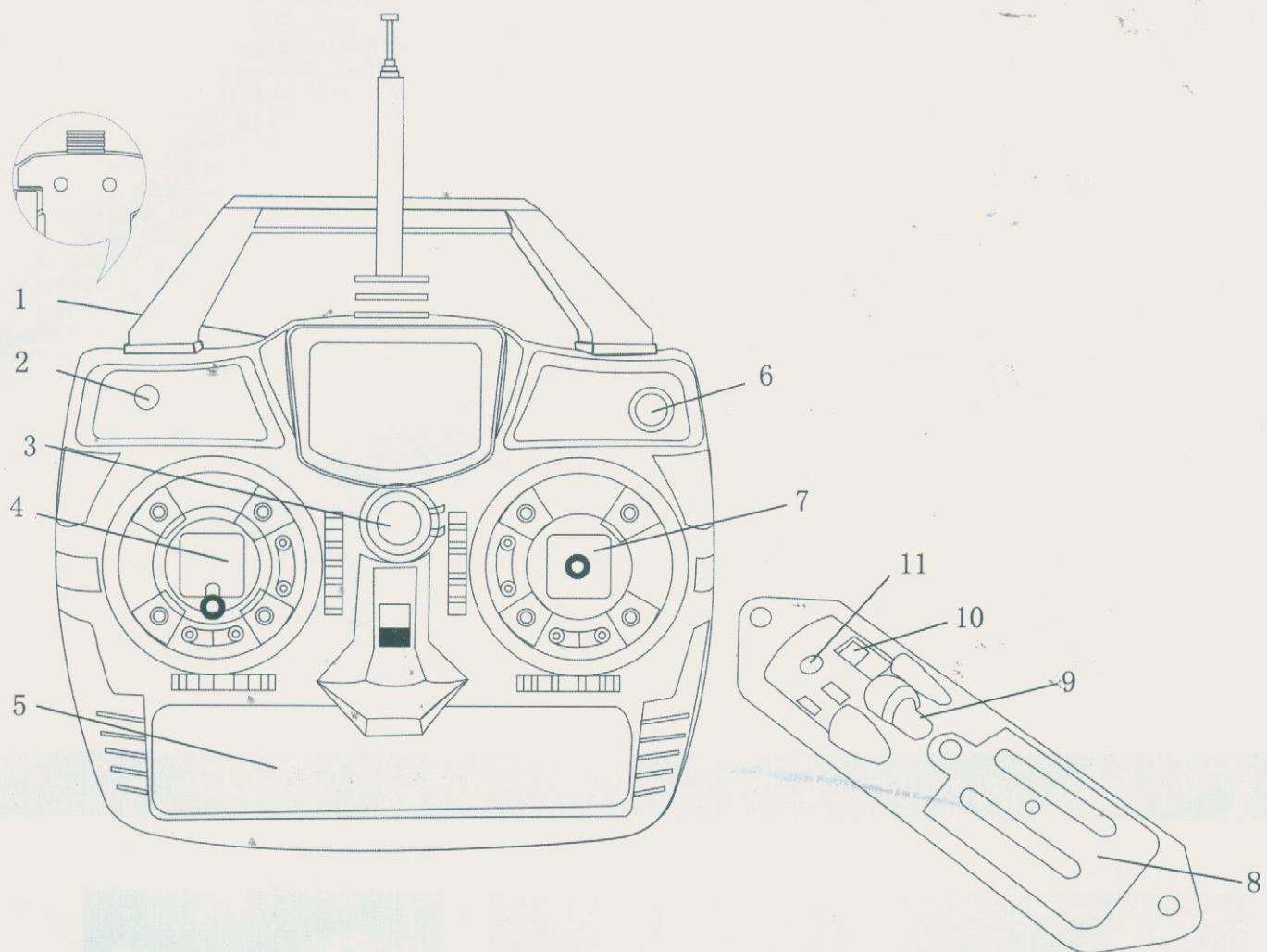
A plane is carried by the lift. While moving forward the lift comes at the wings. 2/3 of the power comes on the upper, only 1/3 at the lower side..

A plane will be pulled upwards while increasing its speed. This effect is also true for the WENXIANG models. The lift counteracts the gravity and keeps the model in the air. Tail-heavy orientation of the model during the flight will increase the lift effect, but reduces the speed till stalling causing an uncontrolled turn to one side. Solution: Move Battery Pack to the front.



The more closely the circles you fly, the more your plane will descend due to the decreasing lift. Start with flying in wide circles to get used to it, we would suggest to fly in wide circles with 40meter diameter.

## 1. Remote control

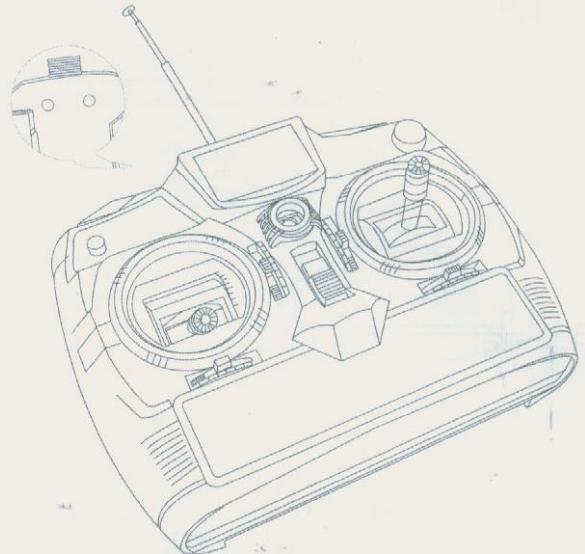
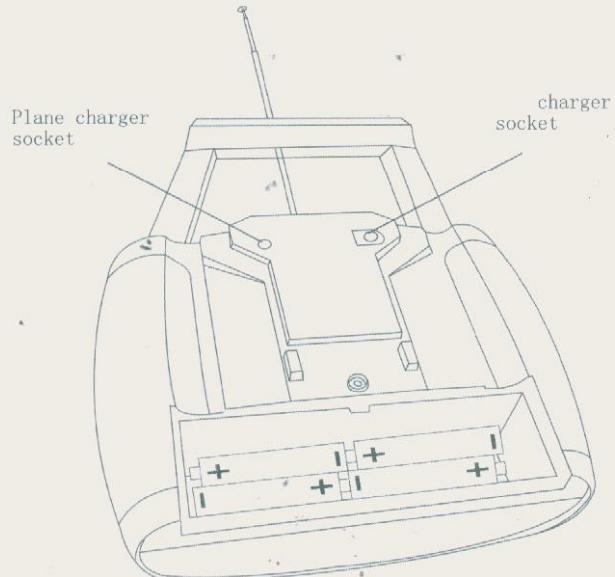


Warning: The controller can only be used for charging the NiMh plane battery, do not use it for charging any LiPo battery as it might leads to explosion, fire.

- |                              |                          |                                  |
|------------------------------|--------------------------|----------------------------------|
| 1. Plane charger socket      | 5. 12V Battery box       | 9. Night Light                   |
| 2. Night Light ON/OFF button | 6. Direction trim button | 10. Plane Power switch           |
| 3. Charging light            | 7. Direction pole        | 11. Plane Battery charger socket |
| 4. Power conditioning pole   | 8. Plane Battery cover   |                                  |

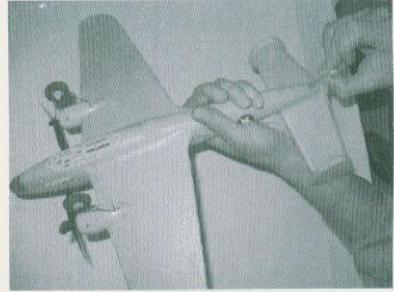
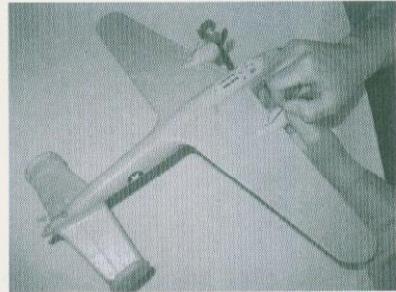
## 2. Placing the batteries into the transmitter

The transmitter can be charged by your car, plane charger socket using a special cable (not included, separate part)



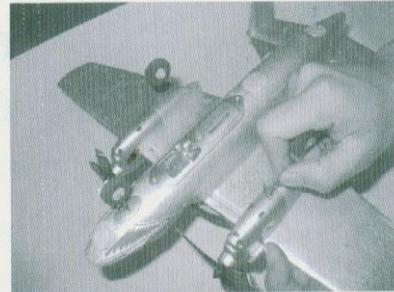
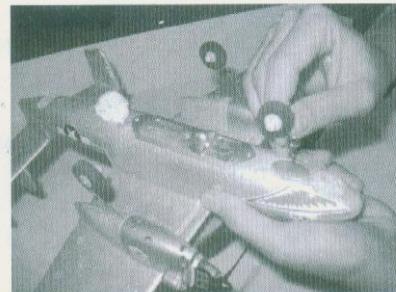
## 3. Installation of the undercarriage

### • Rear undercarriage



First place the main undercarriage into the mounts of the motor cover. Then place the front & back wheels by pressing the poles into the mount at the front & rear of the plane.  
Need to add image!

### • Front undercarriage



## 4. Charging

Connect one end of the charging cable the plug on the back of the transmitter (3.5MM diameter plug). Turn the switch to "ON".

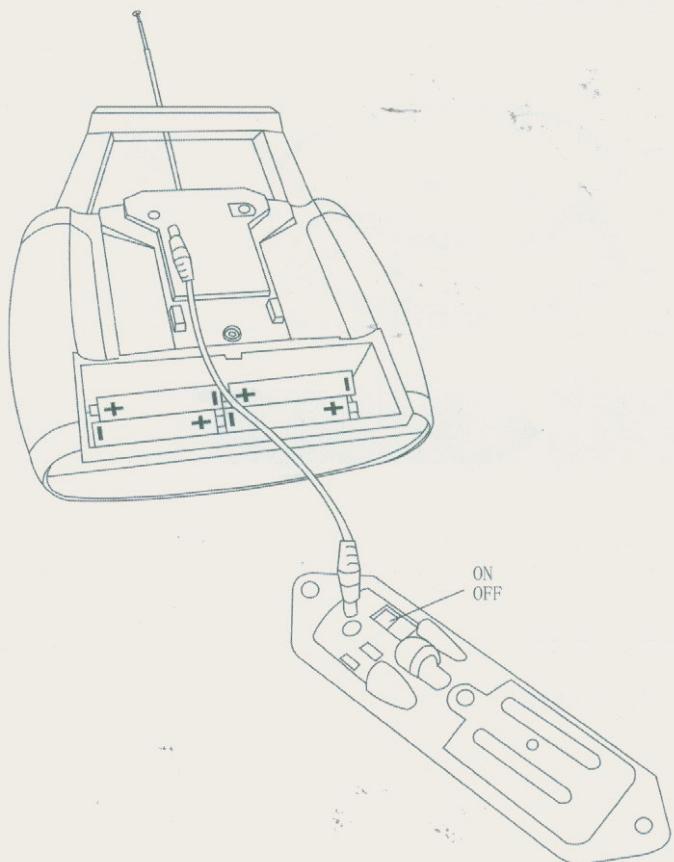
Make sure that the power switch on the plane is in the "OFF" position, then connect the other end of the charging lead to the plane. The indicator light on the transmitter will blink on in green color when the plane battery is being charged, approximately 15-20 minutes, depending on how discharged the plane battery is. Indicator light will change to red color when charging process is complete. Plane battery needs to be replaced if the charging light does not blink when the transmitter is in charge position & connected to the plane. (charging light blinks red if you're trying to charge a full battery)

Replace transmitter battery when low battery sound beating.

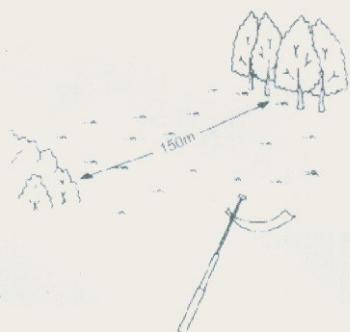
Do not recharge the plane battery if it is hot (exceed 45°C)

Note: Under the low temperature or in winter season, in order to get to best power, charging process might need to be repeated.

Please recharge the flight battery 8 minutes after the plane finished flying, it could keep the plane battery cool and help to keep the battery in best condition.



## 5. Flight ground and weather condition



Make sure there is no other device or plane of the same frequency used within the range of your plane. Different frequency of plane can be used in the same range.

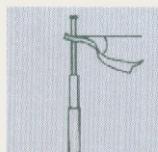
Chose a clear flat area of minimum 150m X 150m without any obstacles.

Always keep your plane in sight! Never let your children play with the plane unsupervised!

Place the red flag at the tip of the antenna, it indicates the velocity and the direction of the wind.

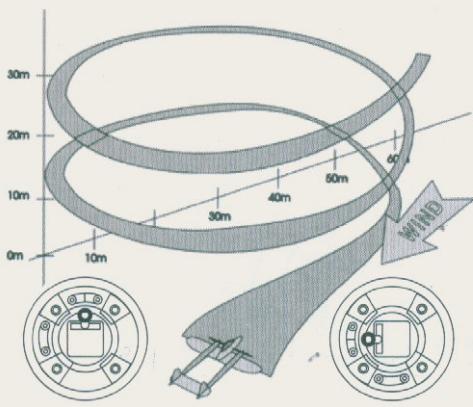


Ideal flying conditions are a wind velocity of 0-2mph, to prevent any damage at your plane, stop flying when the wind velocity extends 4mph.



Tip: If the flag is in an angle of 30 degrees to the vertical line of the antenna, the wind is too strong to fly.

## 6. Taking off by hand or from the ground



### Ground Take Off.

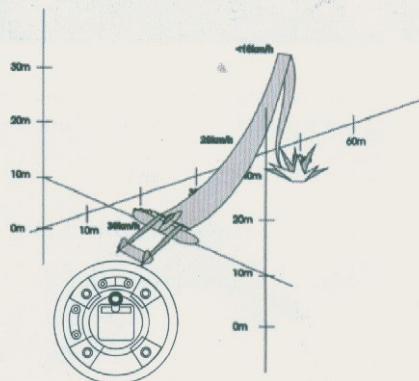
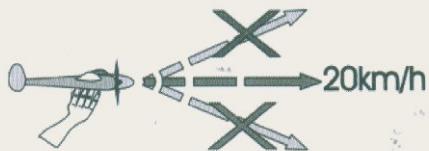
Novice should learn how to take off from the ground first. Choose a runway of 5 to 10 meter, depending on the wind velocity, place the plane facing towards the wind. Start the motor by pushing the left stick of the transmitter forward. The plane takes off after approximately 10 meters from the ground.

If plane does not flight straight you can adjust the trim. If plane veers to the right; turn the trim button to the left, if the plane veers to the left turn the trim button to the right.

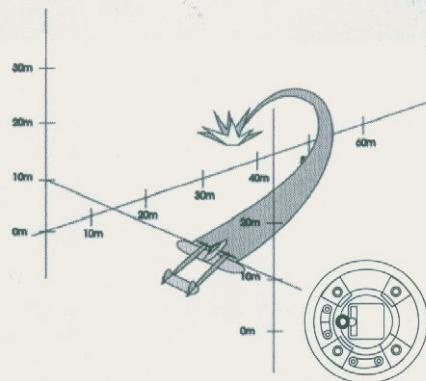
Thrown Take off  
Hold the plane behind the wings with your thumb and your forefinger, start the motor by pushing the left stick of the transmitter forward. Throw the plane parallel to the ground against the wind, the plane should not be tilted when thrown.

Note: The more closely the circles you fly, the more your plane will descend due to the decreasing lift. Start with flying in wide circles to get used to it.

### Mistakes:



The plane climbing too steeply but not fleetly



The plane is not in level or tilts too much

## 7. Adjustment



The plane can be adjusted by bending the tail, so as not to break the plane, remember to the press the position before you're going to bend it.

When the plane will not lift off, bend the tail up, when climbing too strong, bend it down, when it is not flying straight, bend that tail into opposite of the flying direction. (If it tilts to left, bend the tail to right)

If the plane can not be kept in balance, it can also be adjusted by shifting the battery pack.

## 8. Repairs

WENXIANG plane consists of highly break resistant material. Minor damages can be instantly repaired with tape. Cracks or heavy damages must be repaired thoroughly with appropriate glue. For spare parts and more information, please check on <http://www.wenstoys.com>.

### How to repair the Engine

\*The propeller is pushing against the engine

Open the engine take the upper side and fix the gear wheel with your thumb, pull the propeller of the engine slightly by turning left and right.

\*Propeller turns without any resistance

The pigeon gear moved by a crash and the motor shaft and can not power the gear wheel, move to right position and return flying.

\*The engine yowls

It's not the engine making this noise, it's the gear set. The teeth of the pigeon gear spin and will not power the gear wheel.

If pigeon gear moved push it back to correct position, if teeth of the pigeon gear are broken, you have to buy new ones.

\*Motor stops turning

A wire has been broken and has to be soldered again.

## 9. Statement

1. There is no warranty for damage caused by crashing the plane.

2. However, the buyers might crash the model when they first learn how to fly, our company has some spare parts on sale, and buyers could inquire with the retailer.

### Warning

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

## 10. Troubleshooting

Trouble	Cause	Solution
No Charging	Batteries empty	Replace batteries in the transmitter
	Switch on the model is turned "ON"	Switch must be turned "OFF"
	Switch on transmitter is not on "CHARGE"	Change switch on transmitter to "CHARGE"
	Battery pack in the model is not connected properly	Open battery lid and check the battery pack connection
	Charging cable not properly connected	Check the charging cable connection
No control over the model	Batteries empty or not properly placed	Check batteries and replace them if needed
	Switch is turned "OFF"	Turn switch "ON"
	Transmitter has wrong frequency	Only use the transmitter included in your set!
	Motor or electronics of the model were damaged	Replace defective parts-see <a href="http://www.wenstoys.com">www.wenstoys.com</a> for your nearest dealer
Model is hardly to be controlled	Propeller is blocked by dirt or other obstacles	Clean the model
	Propeller is blocked and scratches at the motor cover	Hold the model at the motor cover and pull the propeller 1MM away from the motor cover-if necessary open the motor cover and fix the gear wheel on the motor shaft. Loose the propeller by turning it while pulling
	Wings are heavily damaged	Repair or replace wings. Best results are obtained with special glue for models(hobby store)
	The propeller shaft is bent, the propeller flutters	Correct the shaft only by pressing the propeller
	A propeller blade is broken	Spare parts-propeller set
	The motor cover is heavily damaged	Spare parts-engine nacelle
	The wind velocity is too high, it is squally	Wait for better weather conditions
	Wings are heavily damaged	Repair or replace wings. Best results are obtained with special glue for models(hobby store)
The motor tilts to the left or to the right while in the air without operating the right side stick on the transmitter	The propeller shaft is bent, the propeller flutters	Correct the shaft only by pressing the propeller
	A propeller blade is broken	Spare parts-propeller set
	The motor cover is heavily damaged	Spare parts-engine nacelle
	The wind velocity is too high, it is squally	Wait for better weather conditions
	Incorrect air stream	Bend the tail of the model to the left when it tilts to the right and vice versa
	Unven rotations of the moror-due to damage or long term usage	Bend the tail of the model to the left when it tilts to the right and vice versa
	Battery pack in the model not fully charged	Charged battery pack or replace batteries in the transmitter if needed
The model does not ascent/no take off from the ground possible	Battery pack defective(cell cracked)	Replace battery pack in the model
	Incorrect air stream/incorrect centre of gravity	Bend the tail up-shift battery pack in the model
	Incorrect air stream/incorrect centre of gravity	Bend the tail up-shift battery pack in the model
The nose of the model keeps moving up while flying(model ascents while the left stick on the transmitter is pushed only half	Incorrect air stream/incorrect centre of gravity	Bend the tail up-shift battery pack in the model