WLTOYS

V959□ V969□
V979□ V989□ V999□

Super Combo

4-Asix qudacopter with functions
INSTRUCTION MANUAL

Helicopter
In The House!

2.4G
WLTOYS

Contents

Thank you for buying WLTOYS products. The V959is the latest technology in Rotary RC models. Please read this manual carefully before assembling and flying the new V959helicopter. We recommend that you keep this manual for future reference regarding tuning and maintenance.

1.INTRODUCTION

Thanks for using wltoys products.Helicopter is the first helicopter which can fly outdoor in a wild weather. In order to play Helicopter more convenient and easy, pleasure read it carefully before playing the helicopter.Meanwhile ,please keep it well,and take it for teference when adjustment and maintenance.

flight vehicle can satify you whatever rainy or sunny,even when outdoor wild grade 3-4, it will keep moving.

WARNING LABEL LEGEND

WARNING	Mishandling due to failure to follow these instructions may result in damage or injury.
CAUTION	Mishandling due to failure to follow these instructions may result in danger.
FORBIDDEN	Do not attempt under any circumstances.

IMPORTANT NOTES

Helicopter is not a toy, miniature remote control four-axis aircraft, but there is still some risk of the matter with instructions to correctly use the model in accordance with the Security, the dismantling of any modification or improper use of the product are not familiar with may be dangerous to the risk of unexpected or accidental, please do not overlook.

Manufacturer and dealer assume no liability for accidental damages by abnormal wear of parts,inproper assembly,or operation in unsafe manners.This product is intended for use by age 15 years or older.Please ensure the product is operated under safe environment.

We recommend that you seek the assistance or an experienced pilot before attempting to fly our products for the first time. A local expert is the best way to properly assemble, setup, and fly your model for the first time. The requires a certain degree of skill to operate, and is an item subject to normal wear and tear. Any damage or dissatisfaction as a result of accidents or modifications are not covered by any warrantee and cannot be returned for repair orreplacement. Please contact our distributors are not covered by any warrantee and cannot discounted rates when you experience problems during operation or maintenance.

2. SAFETY NOTES

CAUTION

Fly inly insafe areas away from other people.Do not operate R/C aircraft within the cicinty of crowds or people.R/C aircraft are prone to accidents ,failures,and responsible for their actions and damage or injury occurred during pilot error,and radio interference.pilote are responsible for their actions and damage or injury occurred during the operation or as of a result of R/C aircraft models.

FORBIDDEN Special despecial design for indoor & outdoor,please keep it away from obstacle

This product is suitable for indoor and outdoor(the wind grade should be no more than 4), please choose a place without obstacle, and keep distance from crowd and pets, don't play it under unsafty, for instance, heat source, wire or electonic power source, in order not to be damaged by collision landing, entanglement and lead to a fire, electric shock and cause losses of lives and property

PREVENT MOISTURE

R/C models are composed of many precision electrical components.It is critical to keep the model and associated equipment away from moisture and other contaminants.The introduction or exposure to water or moisture in any form can cause the midel to malfunction resulting in melfunction,or a crash .Do not operate or exposeTo rain or moisture.

PROPER OPERATION

To avoid potential fire hazard from batteries, please do not short, reverse polarity, or puncture batteries. Battery charging must be done under supervision at all times, and at location out of reach by children. Double check the four AA batteries are rechargeable Ni-CD/MH batteries before charging. The manufacturer or this product will not be liable for accidental damages incurred by charging non-rechargeable batteries.

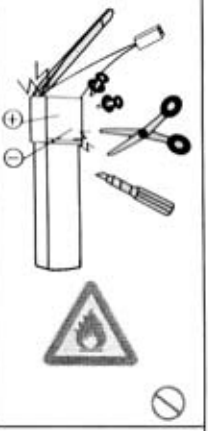
SAFETY NOTE FOR NI-MH BATTERIES

Make sure the batteries are installed based on polarity indicated in the case and do not mix batteries of different chemistry/spec. Please take out the batteries if you are not going to use for a long time to avoid potential leakage which may damage the transmitter. Please dispose depleted batteries according to local laws and ordinances. Do not dispose improperly.

SAFETY NOTE ON LI-POLYMER BATTERIES

LI Polymer batteries poses higher operational risks compared to other battery chemistry, thus it is imperative to follow its usage instructions. Manufacturer and dealer assume no liability for accidental damages caused by improper usage.

Do not use charger other than the factory supplied unit to avoid potential fire and explosion.
Do not crush, disassemble, burn, and reverse polarity. Avoid metallic materials to come into contact with battery"s polarity and cause it short and never puncture batteries to avoid fire hazards.
Battery charging must be done under supervision at all times, and at location out of reach by children.
Please stop the use or charge of the battery should there be an unusual increase in battery temperature after use. Continue use of this battery may cause it to expand, deform, explode, or even result in fire hazards.
Please dispose depleted batteries according to local laws and ordinances. Do not dispose improperly.



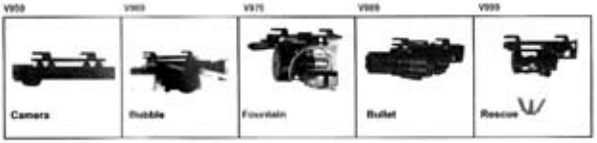
KEEP AWAY FROM HEAT 远离热源

R/C models are made of various forms or plastic. Plastic is very susceptible to damage or deformation due to extreme heat and cold climate .Make sure not to store the model near any source of heat such as an oven,or heater .It is best to store the model indoors ,in a climate-controlled,room temperature environment.

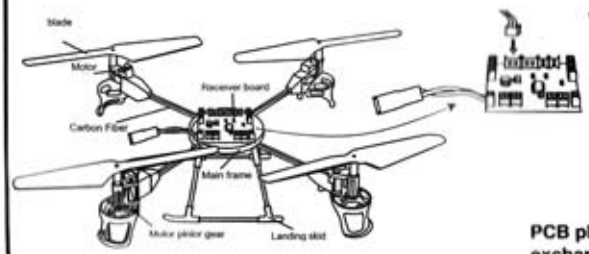
OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT

The products are suitable for more than 15 years old age.
at the beginning it will have some certain difficulty in learing, suggestion guidance by exprienced when playing.

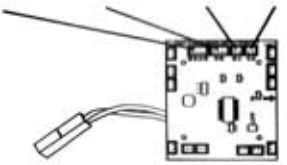
3.STANDARD EQUIPMENT



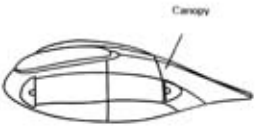
4.NOMENCLATURE



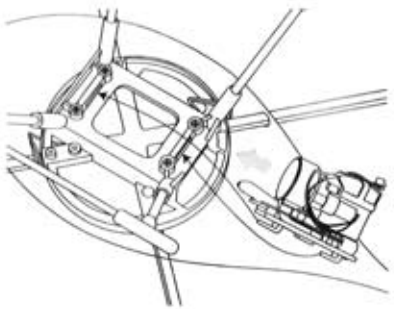
VIDEO CAMERA/MISSILE/Bubble SPRAYER/HOIST



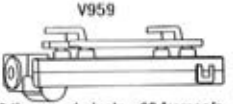
PCB plate shown as picture: when you want to exchange the function, open the cover,pull out the original function plug and replace the new one to the matching slot



5.Parts of the installation

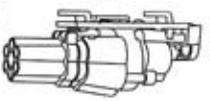


V959



300 thousand pixels. 60 frames/s

V989



V999

V979

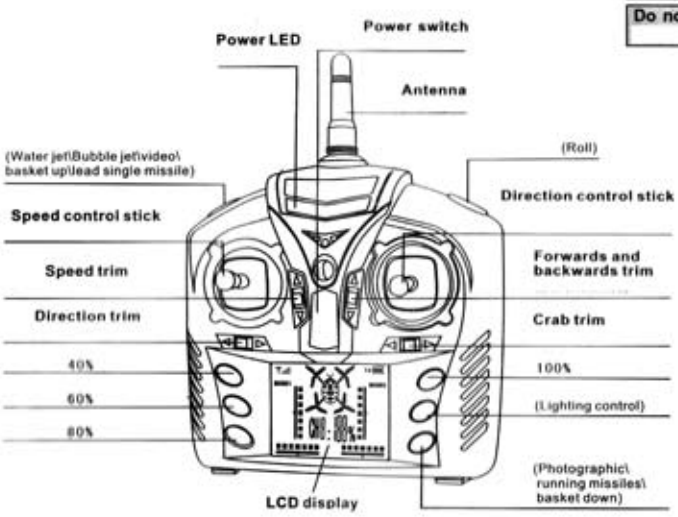
Turn the spacecraft and place on aflat position,push accessories to the position at the mbottom of fuselage as shown.

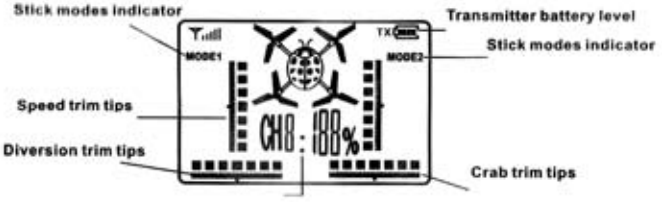
V969

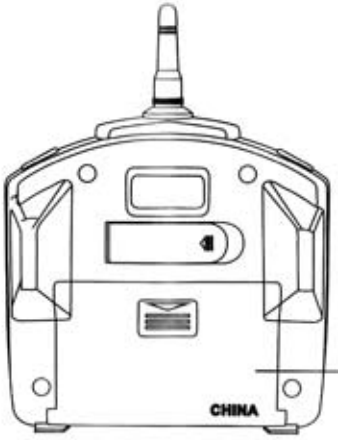
5.NOMENCLATURE

FORBIDDEN

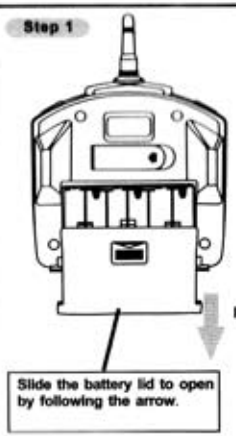
Do not disassemble

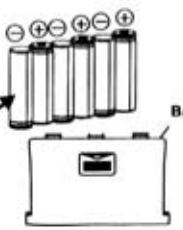






6.TRANSMITTER BATTERY INSTALLATION



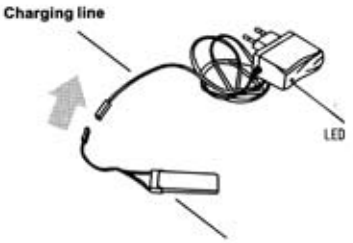


FORBIDDEN

Do not disassemble

7.CHARGING BATTERIES

Use the charging line of the controller to charger the helicopter



Please switch on the remote control,insert the charge plug into the E728 insert the LI-po battery into the charge plug as the picture showed.

WARNING

For safety concerns, battery charging must be done under supervision at all times.

CAUTION

LED Indicator

green light on	orange light on
Charge Completion	Charging

Charger Specifications

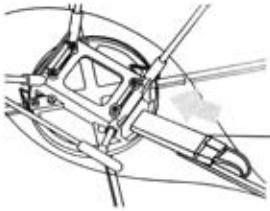
Input	Charging Current	Full Voltage
220V	500mA	4.2± 0.03V

8.BATTERY AND CHARGER SPECIFCATION

Battery usage and charge duration reference

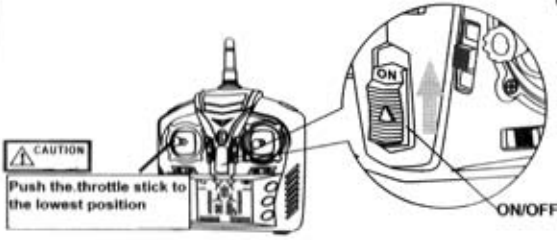
Battery type	Battery Specification	Usage Duration		Charge Time
LI-po battery	3.7V 500mAh	Helicopter flight time	Approx. 10 Minutes	Approx.45 Minutes (Charging current approx.0.5A)
Carbon-Zinc (Non Rechargeable)	1.5V (GP 15G R6P)	Transmitter Operation Time	18 Hours	Non Rechargeable

9.BINDING OF RADIO TRANSMITTER AND RECEIVER



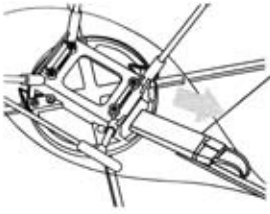
Step1

Aircraft placed in a flat position, the Li-po batteries according to the diagram shown in Direction pushed into the electrical outlet to the positioning of the motherboard light is blinking Do not Then move the body, so that the remote control on the frequency and gyroscope read the neutral point



Step2

The throttle stick to the lowest power on the remote control.

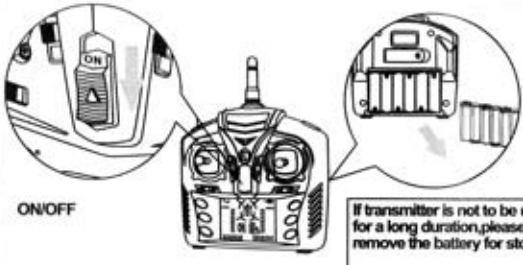


Step 3

Remove the flight vehicle battery safely at the conclusion of flight .this should be made into a post flight habit to acoid unforeseeable problems.

WARNING

Waming: If left connected in the flight vehicle for long duration,the battery may be damaged due to over-discharge,or even become fire hazards.



Step4

Turn off the transmitter.If transmitter is not to be used for a long duration,please remove the battery for storage.

WARNING

Warning:If the AA batteries are left in the transmitter,potential leakage could occur which may damage the transmitter,and create fire hazards.

10.FLIGHT ADJUSTMENT AND SETTING

PLEASE PRACTICE SIMULATION FLIGHT BEFORE ACTUAL FLYING

Before you are familiar with the flight vehicle,pleasure don ' t set it fly,read the instruction carefully.
Ger familiar with all kinds of direction control and keep repeating until you can play it as you perform your wishes
1.Place the flight vehicle a clear open field and the tail of helicopter point to yourself.
2.Practice to operate the throttle stick(as below illustration)and repeat practicing
" Throttle high/low " , " Aileron left/right " , " Rudder left/right " ,and " Elevator up/dowm " .
3.The simulation flight practice is very important,please keep practicing until the fingers
move naturally when you hear operation orders being call out

Mode	Illustration	Mode	Illustration
Aileron 	 Move left Move right	Throttle 	 Ascent Descent
Elevator 	 Fly forward Fly backward	Rudder 	 Turn left Turn right

FLIGHT ADJUSTMENT AND NOTICE FOR BEGINNERS

CAUTION

- Check if the screws are firmly tightened
- Check if the transmitter and receivers are fully charged.

When arriving at the flying field.

CAUTION

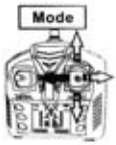
- Make sure that no people or obstructions in the vicinity.
- You must first practicehovering for flying safety.this is a basic flight action. (flight vehicle means keeping the helicopter in mid air in a fixed position)
- Please stand approximately 2m diagonally behind the helicopter.

STEP 1 THROTTLE CONTROL PRACTICE

Mode

When the flight vehicle begins to lift-off the ground,slowly reduce the throttle to bring the flight vehicle back down. Keep practicing this action until you control the throttle smoothly.

STEP 2 AILERON AND ELEVATOR CONTROL PRACTICE



⚠

- If the nose of the flight vehicle moves,please lower the throttle stick and langd the flight vehicle.Then move your position diagonally behind the flight vehicle 2m and continue practicing.
- If the flight vehicle flies too far away from you,please land the flight vehicle and move your position behind 2m and continue practicing

STEP 3 RUDDER CONTROL PRACTICING

1.Slowly raise the throttle stick.
2.Move the nose of the flight vehicle to right or left,and then slowly move the rudder stick in the opposite direction to fly back to its original position.

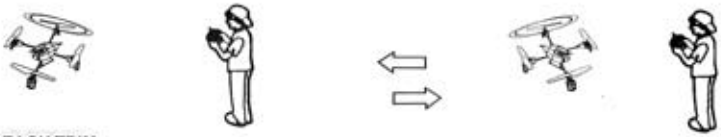
STEP4

After you are familiar with all actions from Step 1 to 3 ,draw a circle on the ground and practice within the circle to increase your accuracy.

- You can reduce the size of the circle as you become familiarized with the control reflexes.

STEP 5 DIRECTION CHANGE AND HOVERING PRACTICE

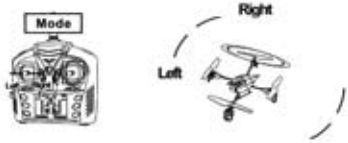
After you are familiar with Step 1 to 4, stand at side of the helicopter and continue practicing Sterp 1 to 4.
Ther repeat the Step 1 to 4 by standing in front of the helicopter.



ADJUSTMENT OF EACH TRIM

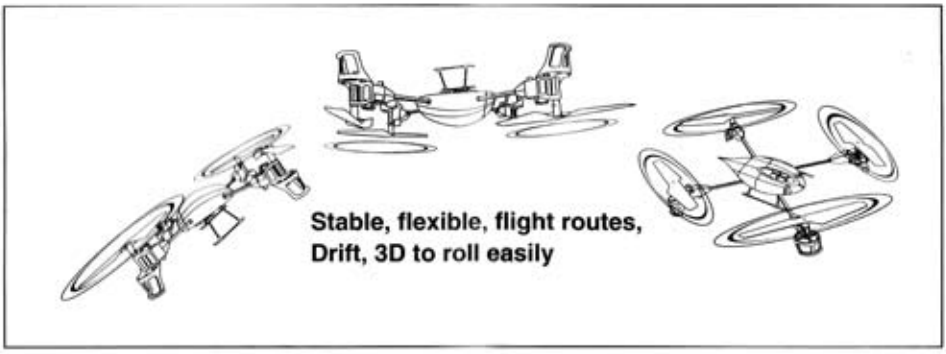
Slowly raise the throttle stick and just as the helicopter lift-off the ground,
you can use the trim to correct the action if the helicopter leans in a differnt direction.

1.Adjustment of rudder trim
Just before the helicopter lift-off, the nose lean left/right...
When leans right, adjust the trim to left side.
When leans left, adjust the trim to right side.



2.Adjustment of elevator trim
Just before the helicopter lift-off, the nose lean forward/backward...
When leans forward, adjust the trim to down.
When leans backward, adjust the trim up.

3.Adjustment of aileron trim 调整副翼微调
Just before the helicopter lift-off, the body lean left/right...
When leans right, adjust the trim to left side.
When leans left, adjust the trim to right side.

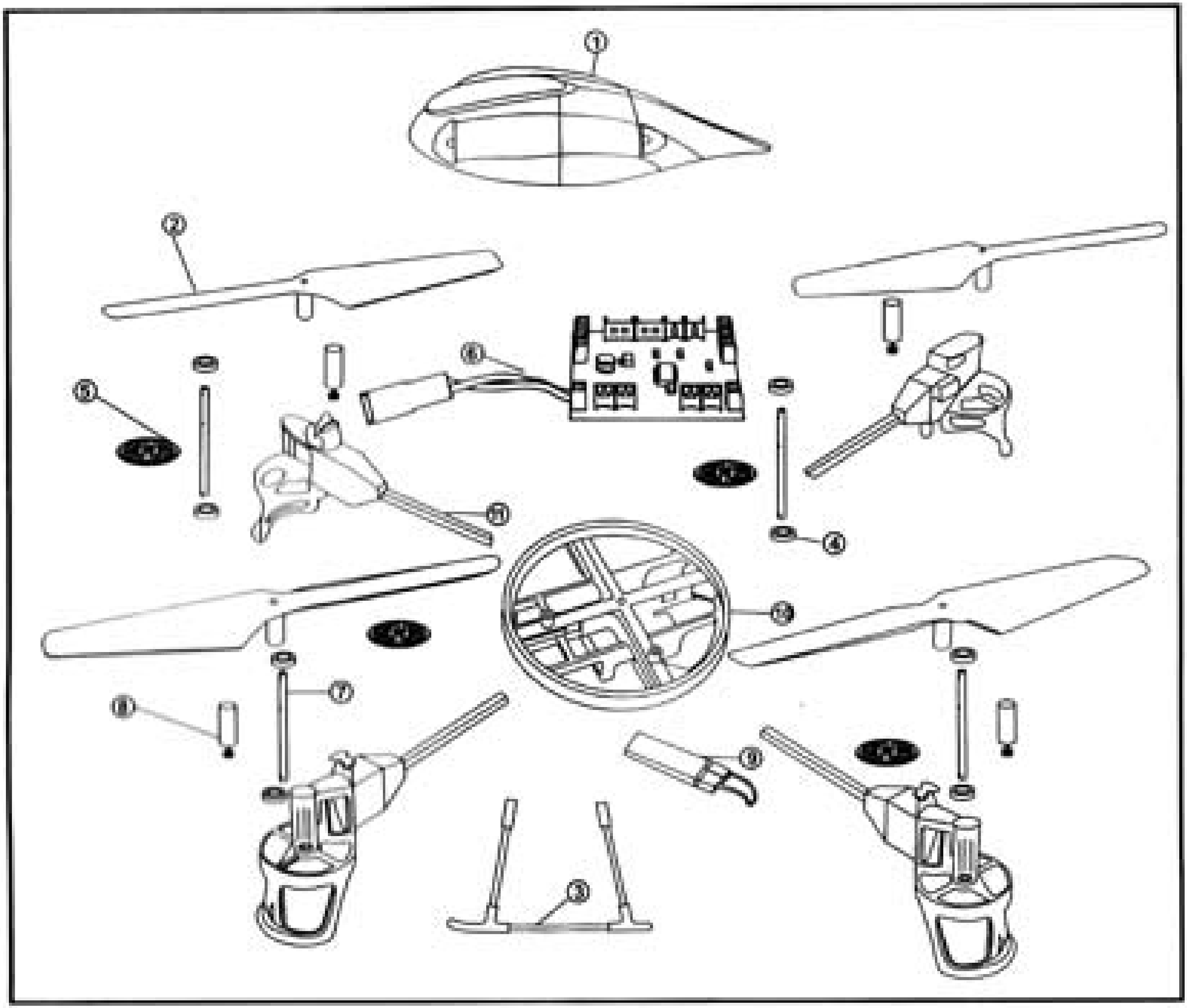


★ The basic movements of the face are very skilled, you can play some of the breathtaking tumbling action. First remote control of the rudder to 100%, then the LCD backlight turns orange. Four-axis aircraft flew more than threeheight. Wdd the button at the top-right corner,push forward a backward, left or right side of the fly joystick to the end and then release, then the vehicle can roll ove

11.TROUBLE SHOOTING DURING FLIGHT

	Situation	Cause	Way to deal
1	Receiver status LED blinks continuously for more than 4 seconds after helicopter battery inserted. No response to control input.	Unable to bind to transmitter.	Repeat the power up initializing process. (Refer to P.6:Binding of radio transmitter and receiver)
2	No response after battery is connected to helicopter.	1.power to transmitter and receiver. 2.Check transmitter and receiver voltage. 3.Poor contact on battery terminals.	1.Turn on transmutter and ensure flight vehicle battery is inserted properly. 2.Use fully charged batteries. 3.Re-seat the battery and ensure good contact between battery contacts.
3	Motor does not respond to throttle stick, receiver LED flashes.	Helicopter battery depleted.	Fully charge the battery, or replace with a fully charged battery.
4	Main rotor continue to spin after landing	Throttle trim accidentally increased during flight.	Confirm throttle trim is in center or slightly below.
5	Main rotor spins but unable to takeoff.	1.Deformed main blades. 2.Helicopter battery depleted	1.Replace main blades 2.Charge or replace with a fully charged battery.
6	Strong vibration of helicopter	1.Deformed main blades	1.Replace main blades
7	Tail still off trim after tab adjustment, or inconsistent speed during left/right pirouette.	1.Damaged tail rotors 2.Damaged tail drive motor	Replacement of the main wing Replace the main motor
8	Helicopter still wonders forward after trim adjustment during hover.	1.Elevator servo not level during power up. 2.Elevatoer pushrod too long or too short.	The boot will lift fine-tune the normalized neutral point, the new boot.
9	Can not fly the aircraft fall	1、motor fall out 2、gear loosen	1、install the motor again 2、tighen the gear

12.PARTS LIST



No.	Code No.	Name	Specification	Quantity	Remarks
1		Canopy		1	
2		blade		4	
3		Landing skid		4	
4		Bearing		8	
5		Motor pinior gear		4	
6		Receiver board		1	
7		Main shaft		4	
8		Motor		4	
9		Li-polymer battery		1	
10		Main frame		1	
11		Carbon Fiber		4	

No.	Code No.	Name	Specification	Quantity	Remarks
1		Canopy		1	
2		Blade		4	
3		Landing skid		4	
4		Motor		4	
5		Receiver board		1	
6		Main frame		1	
7		Li-polymer battery		1	
8		Carbon Fiber		4	