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CONTROLLER INSTRUCTION 1. On/off
(1)On/After put on the battery, R/C is in sleep model, indicator extinguish when off)
Short Press the ON/OFF, the remote control enters the normal mode of work, the buzzer is short sound one beeping, and the power indicator is fading.
(2)Power off: long press the ON/OFF, the buzzer is short sound two beeping, the power indicator is out and the remote control is off.
2. Turning
When the remote control and the aircraft are pairing the code, move the turning rocker to left and right, the aircraft will turn left and right.
3. Forward and backward
When the remote control and the aircraft are pairing the code, move the rocker to forward and backward, the aircraft will fly forward and backward. 4.Left and right

When the remote control and the aircraft are pairing the code, move the rocker to left and right, the aircraft will fly left and right.

5. Fine-tuning function

The aircraft can be stabilized by adjusting the direction of the aircraft, in the opposite direction

6 Headless mode Another smode Short press the button to enter headless mode. The vehicle's flying direction will be the same as he demand of controller, no matter where the head is .

Stunt

Long press the button for stunt. The beeper will keep, ringing.

8. Speed s. Speea
Short press the button to adjust the speed. There are three speed levels. You will hear a beep sound while adjusting. Beep one for level 1, beep two for level 2, beep three for level 3. The higher the level the faster the speed.

higher the level, the faster the speed.

9. One key take off and one key landing
In the fixed high mode, after press the one key take off and one key landing buttons,
automatically alicraft up to one meter from the ground level hover, trigger buttons again, aircraft
flying will fall to the ground stops automatically

10.**One key to return** Short press the button for one key to return . Press again to finish return .

Short press the button for one key to return . Press again to tinish return .

11. Calibration

(1) if the aircraft is drifting to one side during takeoff, it can be calibrated to make the flight more

stable (2)calibration method: the aircraft is placed on the horizontal surface, and the two rocker of the remote control is pushed to the lower right corner, when observed the indicator light flashes on the aircraft, release the remote control rocker, indicating that it has been calibrated. note: the aircraft should be kept at the horizontal surface. During calibration, the aircraft will not e able to riot . After the calibration is completed, the indicator light will stop flash quickly).

be able to riot. After the calibration is completed, the indicator light will stop indirectory.

12: Low voltage warning:

When the battery is lower than 2.5V of the remote control, the power light will flicker and alarm prompt to change the battery.

when the aircraft into the low voltage alarm, the buzzer will send a didi alarm of the remote control, indicating that the aircraft needs to stop flying

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REPLACING THE PROPELLER BLADE

3. Replace broken blades with the correct blade

The propeller system is a precision instrument that may need to be repaired or replaceed from time to time for optimal flight function. Crash landing from high-speed aerial flights may cause

1. The aircraft has four blades, two white colors on front, and two black colors on back (see the diagram below).

2. When replacing the propeller blades, make sure to match both the color of the blade and the indication letter on the blade.

White Blade Front Left=F White Blade Front Right=R



# BATTERY WARNINGS

### RECHARGEABLE BATTERY:

his Quadcopter uses a Li-Poly rechargeable battery.If battery no longer stays charged, dispo ding to local disposal requirements CONTROLLER BATTERIES:

emote control requires 2"AAA"batteries (not included).Please read the important battery safe warning below.

- Do not mix alkaline.standard (carbon-zinc) and rechargeable betteries (Nickel Metal Hydride)
- Do not mix old and new batteries.
- Non-rechargeable batteries are not to be recharged Rechargeble batteries are to be removed from the item before being charged (if removable).
- Rechargeble batteries are only to be charged under adult supervision.

  Exhausted batteries should be removed immediately and must be recycled or disposed of
- properly according to state or local government ordinances and reulations The supply terminals are not to be short-circuited.
- Only batteries of the same or equivalent type as recommended are to be used.
   Batteries are to be inserted with the correct polarity (see inside booklet for diagram). Do not dispose batteries in a fire-batteries may leak or explode.

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on -\(\)-

CHARGING BATTERIES

Charge with our dedicated charger.

off (

5V

Input Charging Current Full Voltage

420~450mA 4.2 ± 0.03V

1.Take off the battery from the vehicle. Connect the battery with a USB cable . Plug the USB cable into a mobile phone adapter or a computer.
 2.The Charging Indicator will blink when charging. The Charging Indicator will turn OFF when fully charged.

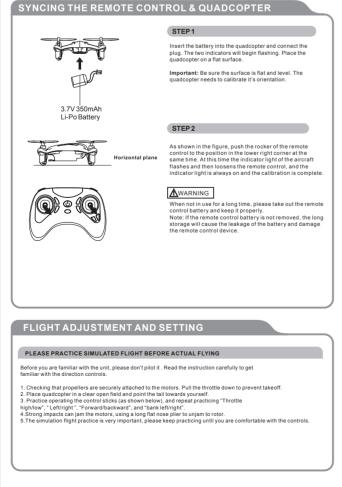
Caution

During the flight, the indicator light of the aircraft is slow to flash while the remote control makes a "beep beep", indicating that the battery voltage is insufficient and please land down to recharge the battery.

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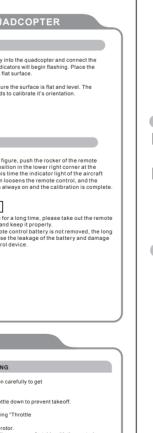
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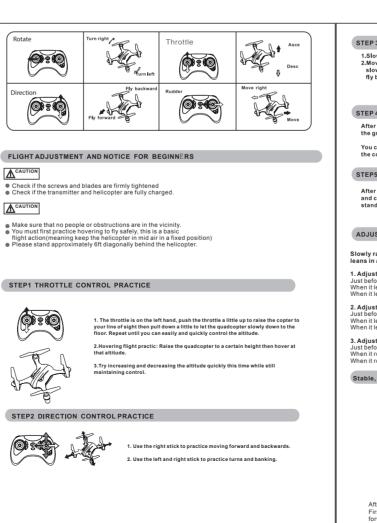
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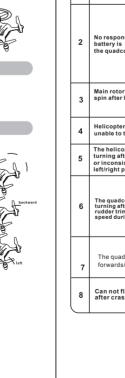
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P 3 RUDDER CONTROL PRACTICE
lowly raise the throttle stick ove the nose of the helicopter right or left and then lowly move the rudder stick in the opposite direction to y back to its original position
P 4 PRECISION PRACTICE
er you are familiar with all actions from step 1 to 3,draw a circle on ground and practice within the circle to increase your accuracy
I can reduce the size of the circle as you become familiar with control reflexes.
P5 DIRECTION CHANGE AND HOVERING PRACTICE
er you are familiar with step 1 to 4, stand at side of the helicopter I continue practicing step 1to4. Then repeat the step 1 to 4 by Inding in front of the helicopter
USTMENT OF EACH TRIM
raise the throttle stick and observe just as the helicopter lifts off the ground if it n a direction. You can use the trim to correct this action.  Isstment of Left/Right trim fore the quadcopter lifts-off, the nose leans left/right. It leans right adjust the trim to the left side. Leans left adjust the trim to the right side.
Istment of Forwards/Backwards trim fore the quadcopter lifts-off, the nose leans forward/backwards. It leans forwards adjust the trim down. It leans backwards adjust the trim down. It leans backwards adjust the trim up. Istment of Roll trim fore the quadcopter lifts-off, the body rolls left/right. It rolls right adjust the trim to the left side. It rolls left adjust the trim to the right side.  It rolls left adjust the trim to the right side.  It rolls left adjust the trim to the left side.



	Situation	Cause	Solution
1	After turn on the quadcopter the LED indicators keep flashing but the quadcopter does not respond.	Transmitter and receiver fail pairing	Sync the remote control and copter (refer to P.7)     Fully charge the battery
2	No response after the battery is connected to the quadcopter.	Check whether it is low power	Charging the helicopter
3	Main rotor continues to spin after landing	Throttle stick not on the lowest position	Make sure the Throttle stick on the lowest position
4	Helicopter rotor spins but unable to take off.	1.Check whether the blade assembled correctly or not.     2.Helicopter battery depleted.	Make sure the Throttle stick is on th lowest position
5	The helicopter still keeps turning after rudder triming or inconsistent speed during left/right pirouette.	The blades haven't been installed in the right place.     Rotor blade deformation     Didn't calibrate the flight.	Replace the main wing Replace the main motor     Change blade     Correct the level refer to Pe
6	The quadcopter still keeps turning after trimming the rudder trim, or inconsistent speed during left/right turns.	The blade isn't fully installed     Rotor blade deformation     Rotor blade not match code	Change blade     Correct the level refer to Pe     Replace the main wing     Replace the main motor
7	The quadcopter shifts forwards/ backwards.	The trim is not even.	Trim the elevator back to cen Restart the remote control.
8	Can not fly the helicopter after crashing	1.Rotor blade turns off 2.Rotor blade deformation	Change replacement roto     Tighten the Rotors

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# GD-90A

1 CAUTIONS

2 QUADCOPTER COMPONENTS REPLACING THE PROPELLER BLADE

SYNCING THE REMOTE CONTROL AND THE QUADCOPTER 7-9 FLIGHT ADJUSTMENT AND SETTINGS

10 TROUBLE SHOOTING DURING FLIGHT

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## **FCC Warning**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

Note 2: 1. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. The minimum separation generally be used is at least 20 cm.