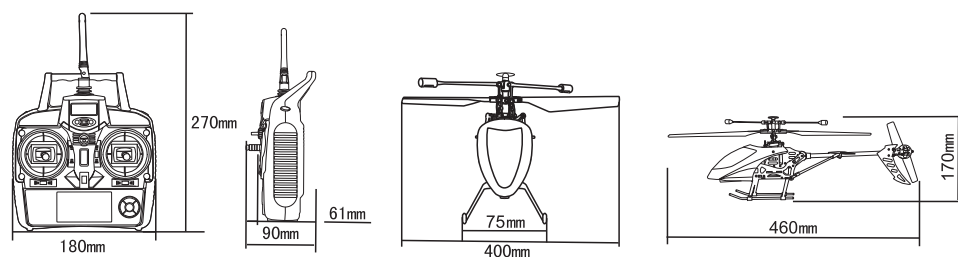




# Buzzard

**RTF**

Art.-Nr.: 25137



## MICRO HELICOPTER INSTRUCTION MANUAL



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## Declaration of Conformity

This product has been manufactured according to actual technical standards. The product is matching the requirements of the existing European and national guidelines. The Declaration of Conformity has been proofed. AMEWI Trade e.K. declares that this product is matching the basic requirements and remaining regulations of the guideline 2014/53/EU (RED). The declarations and documents are stored at the manufacturer and can be requested and applied there.

The full text of the declaration of conformity can be found at: <https://amewi.com/Konformitaetserklaerungen>

For additional questions to the product and conformity please contact:

Amewi Trade e.K. Nikolaus-Otto-Str. 18, 33178 Borcheln or via the website [amewi.com](https://amewi.com)



## Security and Hazard Warnings



**Attention!** For damage, caused by disregarding of the manual, warranty expires !

We are not liable for secondary failures, material or personal damage, caused by improper usage or disregarding the security notices.

**Attention!** Based on security and registration (CE) reasons, it is forbidden to modify the product personally. Do not disassemble the product.

**Attention!** Small parts. Danger of suffocation or risk of injury caused by small parts.

**Attention!** Suitable for people aged 14+ !



The product is not allowed to get moist or wet. The product is only allowed to be used on flat and clean surfaces. Even a drop down from a small height can cause damage to the product. Usage of more than one Products of same Frequency at the same time is not possible, because it will affect each other.

## Battery Notice and Battery Disposal



**Attention!** Battery do not belong in childrens hands. A change of the battery has to be done by an adult person. Never mix chargeable batteries with non-chargeable batteries. Never mix fully charged batteries with almost empty batteries. Never mix batteries of different capacities. Never try to charge dry batteries. Take care of the correct polarity. Defective batteries belong to special waste. Never leave a charging battery unattended. For questions about the charging time please read the manual or ask the manufacturer.

## Disposal



The company AMEWI is registered below the WEEE Reg. Nr. DE93834722 at the foundation EAR and recycles all used electronic parts properly. Electric and electronical products are not allowed to put in household garbage. Please dispose the product at the end of the lifetime according to the actual laws. You as a customer are responsible by law for the return of all used batteries, a disposal over the household garbage is forbidden !

Batteries containing hazardous substances are marked with the alongside symbols, which point to the prohibition of disposal in household garbage.

Additional notations for the critical heavy metal are: Cd=Cadmium, Hg=Quecksilver, Pb=lead (Label is placed on the batteries, for example below the bottom left trash symbols).



Based on RoHS labeling the manufacturer confirms, that all limit values were taken care of at the time of manufacturing.



Batteries labeled with the recycling symbol can be put into used battery collecting tank. (Most supermarkets have)  
They are not allowed to be put into local household garbage.



AMEWI Trade e.K. is involved in the dual system for boxing over the company Firma Landbell AG. All used boxes are collected from partner companies (waste disposal contractor) at private customers (local household), sorted and properly utilized. The Involvement in a Dual Systems helps to save CO<sup>2</sup> Emissions.

## 1. INTRODUCTION

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

Buzzard helicopter can satisfy you whatever rainy or sunny, even when outdoor wild grade 4-5, it will keep moving.

### WARNING LABEL LEGEND

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

### IMPORTANT NOTES

Buzzard is a sophisticated hobby product and not a toy. Although small, it still poses certain risk factors that should not be overlooked. Please follow safety and operation recommendations to ensure correct operation of this helicopter. The use of this helicopter beyond its intended purposes and disassembly may cause unforeseen danger, and should be avoided.

Manufacturer and dealer assume no liability for accidental damages by abnormal wear of parts, improper 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 of 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 or replacement. Please contact our distributors are not covered by any warrantee and cannot be discounted rates when you experience problems during operation or maintenance.

## 2. SAFETY NOTES



Fly only in safe areas, away from other people. Do not operate R/C aircraft within the vicinity 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. Pilots are responsible for their actions and damage or injury occurred during the operation or as a result of R/C aircraft models.




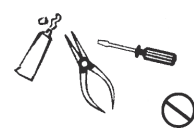
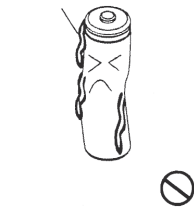



Special despecial design for indoor & outdoor, please keep it away from obstacle

This product is suitable for indoor and outdoor (the wind grade should be no more than 5), please choose a place without obstacle, and keep distance from crowd and pets, don't play it under unsafe, for instance, heat source, wire or electronic 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

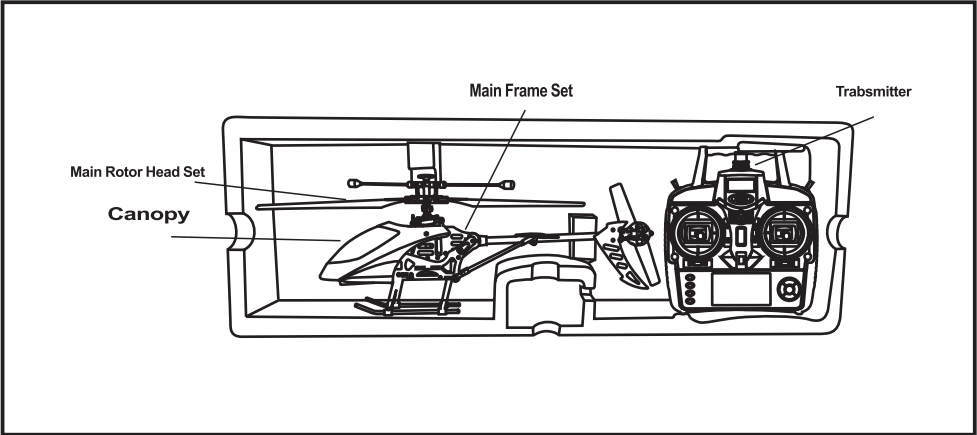


No.	Code No.	Name	Specification	Quantity	Remarks
1		Canopy			
2		Flybar rod			
3		Main gear			
4		Connect buckle A			
5		Ball accessories			
6		Connect buckle B			
7		Blade holder Upper			
8		Main blade			
9		Blade holder Lower			
10		Central shaft			
11		Main steel pipe			
12		Up swashplate			
13		Ironcover			
14		Down swashplate			
15		Swashplate			
16		Fixed main iron cover			
17		Fixed copter accessry			
18		Fixed swashplate accessry			
19		Rudder			
20		Main motor			
21		Bearing			
22		Receiver board			
23		Fixed canopy accessory			
24		Main frame			
25		Up and dowa aluminium			
26		Battery			
27		Fixed battery accessory			
28		Canopy			
29		Baseplate			
30		Landing skid			
31		Skid pipe pluger			
32		Skid steel pipe			
33		Oblique tail tube			
34		Fixed horizontal tail accessory			
35		Vertical tail			
36		Motor protection cover			
37		Down tail gear box cover			
38		Up tail gear box cover			
39		Tail blade			
40		Horizontal tail			
41		Tail gear			

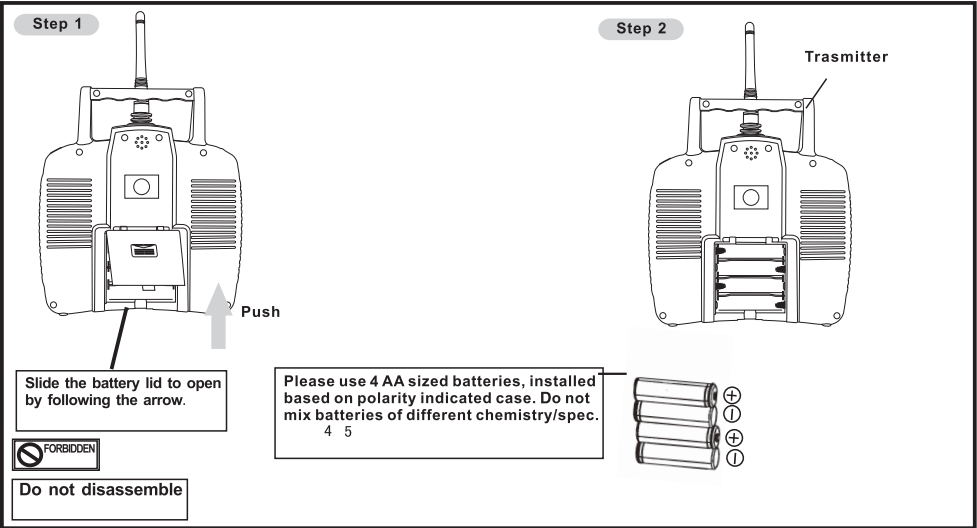
Specifications, contents of parts and availability are subject to change, Align RC is not responsible for inadvertent errors in this publication.

<p><b>FORBIDDEN</b> <b>PREVENT MOISTURE</b></p> <p>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 model to malfunction resulting in malfunction, or a crash. Do not operate or expose to rain or moisture.</p>	
<p><b>FORBIDDEN</b> <b>PROPER OPERATION</b></p> <p>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.</p>	
<p><b>FORBIDDEN</b> <b>SAFETY NOTE FOR NI-MH BATTERIES</b></p> <p>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.</p>	
<p><b>FORBIDDEN</b> <b>SAFETY NOTE ON LI-POLYMER BATTERIES 锂聚合物电池使用安全</b></p> <p>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.</p>	
<p><b>CAUTION</b> <b>KEEP AWAY FROM HEAT</b></p> <p>R/C models are made of various forms of 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.</p>	
<p><b>WARNING</b> <b>OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT</b></p> <p>The products are suitable for more than 15 years old, at the beginning it will have some certain difficulty in learning, suggestion guidance by experienced when playing.</p>	

### 3.PACKAGE ILLUSTRATION



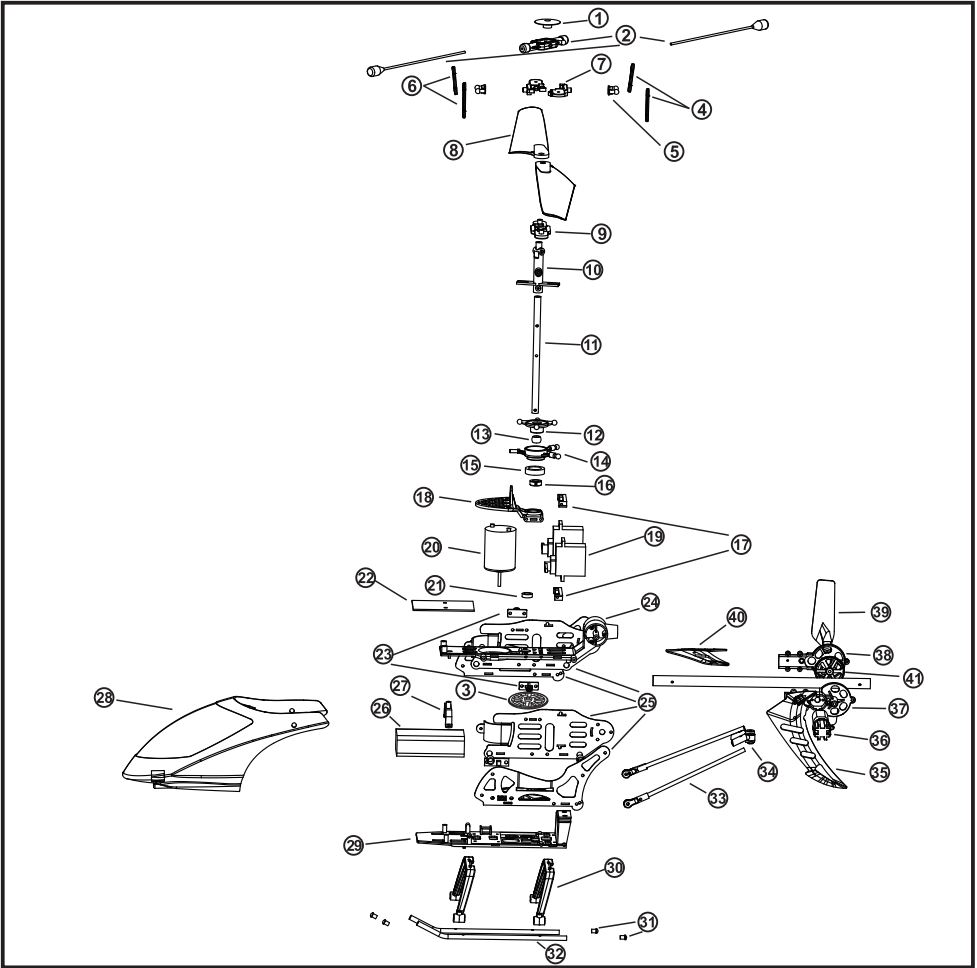
### 4.TRANSMITTER BATTERY INSTALLATION



	Situation	Cause	Way to deal
11	Helicopter unable to remain stationary during hover	1.Binding caused by rough components 2.Overtightening of mixing arms.	1.Confirm smooth movements of components and ball links. 2.Losen up mixing arms axial screws.
12	Unusual vibration of helicopter during flights	1.Binding between main blades and blade grips. 2.Insufficient head speed due to depletion of helicopter battery.	1.Ensure all head components are smooth with no binding. 2.Replace with a fully charged battery.

If the problem is still there even after tried above, stop flying and contact with your seller.

### 12.PARTS LIST

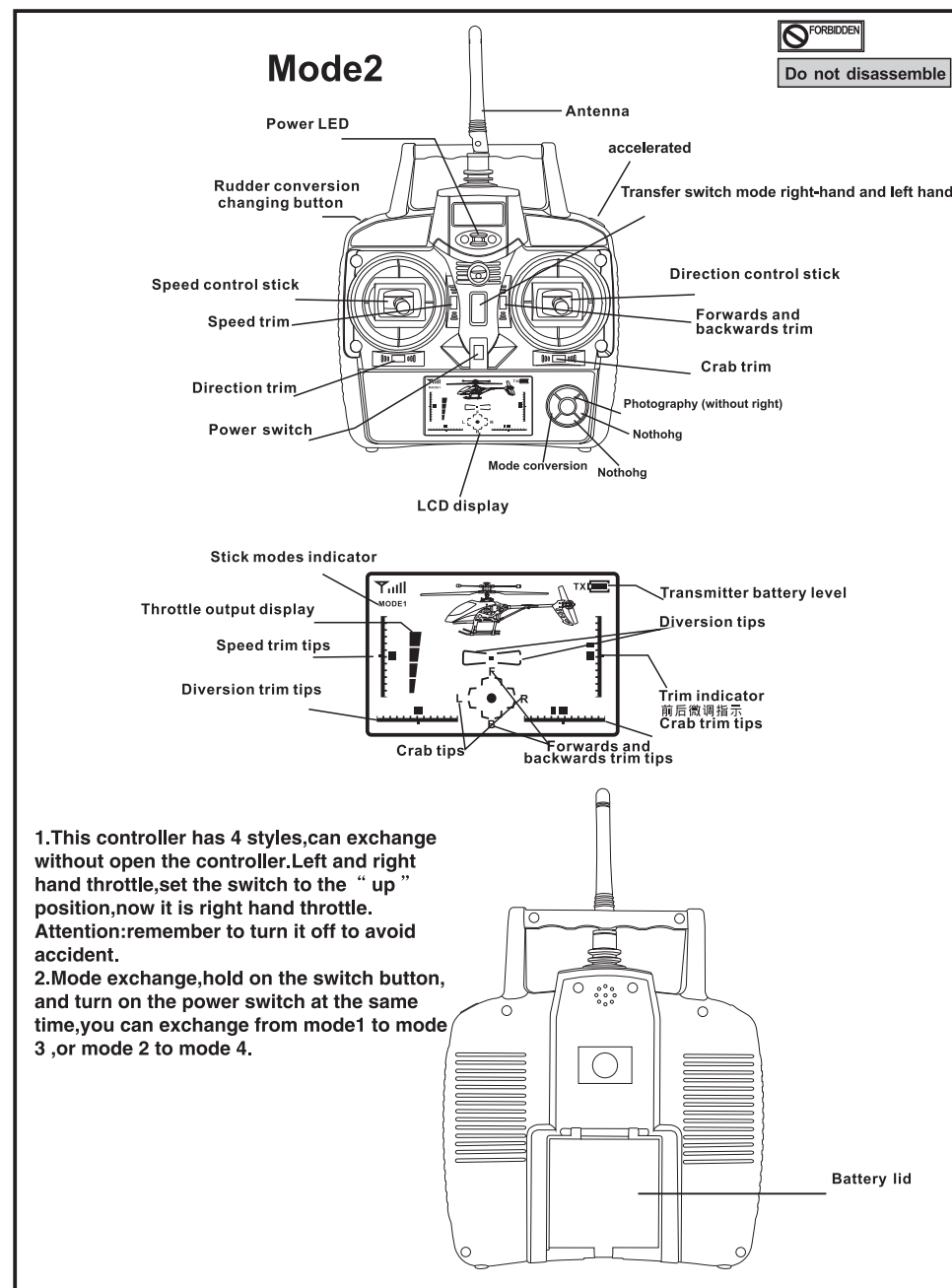




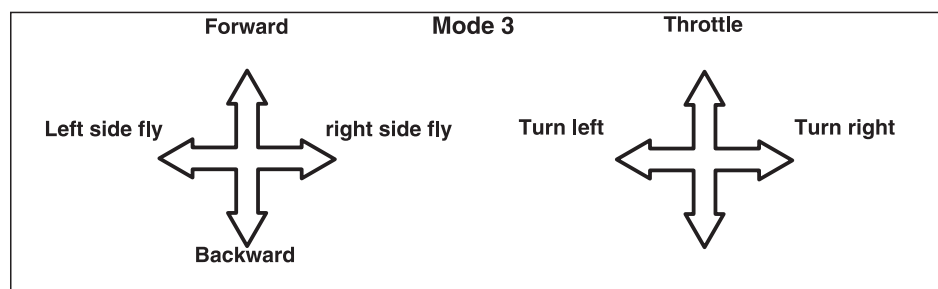
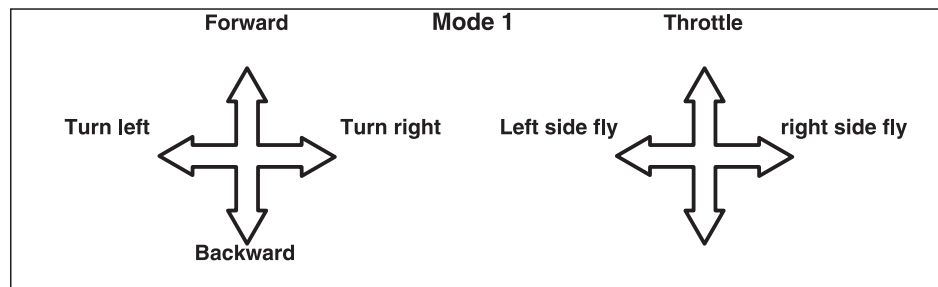
## 11.TROUBLE SHOOTING DURING FLIGHT

	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.11: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 transmitter and ensure helicopter 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	Motor fails to run,but servo moves.	1.Throttle trim is too high, triggering safety protection function. 2.Throttle was not all the way down during power up. 3.Loose motor connection or damaged motor	1.Lower throttle trim and restart throttle. 2.Lower throttle stick all the way down and restart throttle. 3.Re-seat the motor plug or replace the motor.
6	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.
7	Strong vibration of helicopter	1.Deformed main blades 2.Bent main shaft 3.Deformed tail rotor 4.Overtightening of main blade greps.	1.Replace main blades 2.Replace main shaft 3.Replace tail rotor 4.Re-tighten main blade grips with suitable force.
8	Tail still off trim after tab adjustment, or inconsistent speed during left/right pirouette.	1.Damaged tail rotors 2.Damaged tail drive motor 3.Helicopter was not stationary during power up. 4.Vibration induced gyro interference, causing tail unable to lock.	1.Replace tail rotors 2.Replace tail drive motor 3.Re-power the helicopter while remaining stationary. 4.Refer to symptom 7.
9	Helicopter still wonders forward after trim adjustment during hover.	1.Elevator servo not level during power up. 2.Elevator pushrod too long or too short.	1.Center elevator trim after power up, and re-install elevator servo horn at level position. 2.If helicopter drifts forward, adjust linkage longer. If it drifts backward, adjust linkage shorter.
10	Helicopter still wonders left/right after trim adjustment during hover.	1.Aileron servo not level during power up. 2.Aileron pushrod too long or too short.	1.Center aileron trim after power up, and re-install aileron servo horn at level position. 2.If helicopter drifts left, adjust linkage longer. If it drifts right, adjust linkage shorter.

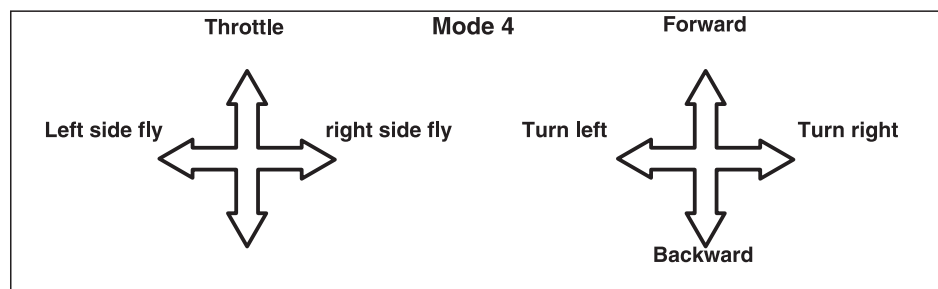
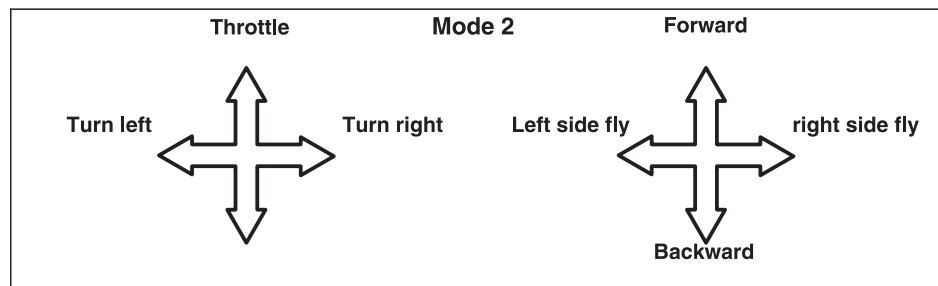
## 5 NOMENCLATURE



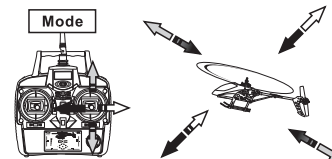
## Throttle on right hand



## Throttle on left hand



## STEP 2 AILERON AND ELEVATOR CONTROL PRACTICE



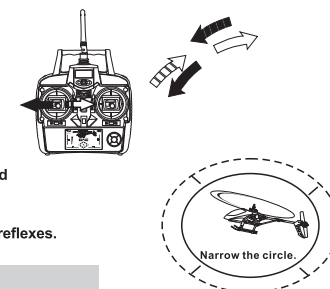
1. Raise the throttle stick slowly.
2. Move the helicopter in any direction back, forward, left and right, slowly move the aileron and elevator sticks in the opposite direction to fly back to its original position.



- ⊙ If the nose of the helicopter moves, please lower the throttle stick and land the helicopter. Then move your position diagonally behind the helicopter 2m and continue practicing.
- ⊙ If the helicopter flies too far away from you, please land the helicopter 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 helicopter to right or left, and then slowly move the rudder stick in the opposite direction to fly back to its original position.



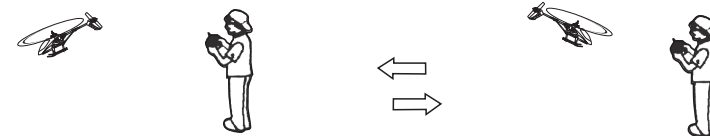
## STEP 4

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 Step 1 to 4. Then 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 different direction.

### 1. Adjustment of rudder trim

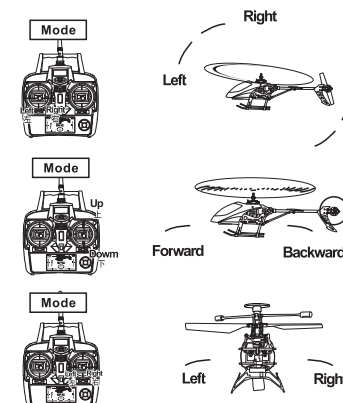
Just before the helicopter lift-off, the nose lean left/right...  
When leans right, adjust the trim to left side.  
When leans left, adjust the trim to right side.

### 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

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.



10.FLIGHT ADJUSTMENT AND SETTING

PLEASE PRACTICE SIMULATION FLIGHT BEFORE ACTUAL FLYING




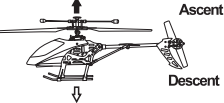
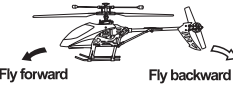
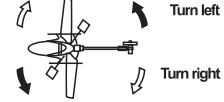
Before you are familiar with the helicopter, please don't set it fly, read the instruction carefully. Get familiar with all kinds of direction control and keep repeating until you can play it as you perform your wishes.

1.Place the helicopter in 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/down".

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 图示
Aileron		Throttle	
Elevator 升降/前后		Rudder	

FLIGHT ADJUSTMENT AND NOTICE FOR BEGINNERS





**CAUTION**

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

**CAUTION**



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

When arriving at the flying field.




STEP 1 THROTTLE CONTROL PRACTICE

Mode




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


6.STANDARD EQUIPMENT



Li-Polymer battery x1  
7.4V 850mAH



Lipo charger x1



Tail Blade X 1  
Blade X 2

7.BATTERY AND CHARGER SPECIFICATION 电池与充电器相关规格

Battery usage and charge duration reference 电池使用时间与充电时间参考表				
Battery type	Battery Specification	Usage Duration		Charge Time
Li-po battery	7.4. 850mAH	Helicopter flight time	Approx. 7-8Minutes	500 ma. About 60 minutes
Carbon-Zinc (Non Rechargeable)	1.5V (GP 15G R6P)	Transmitter Operation Time	18 Hours	Non Rechargeable

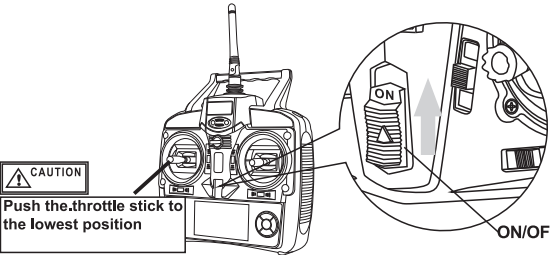
**CAUTION**

You needn't to change anything because it has been adjusted when it finish produce

8. BINDING OF RADIO TRANSMITTER AND RECEIVER

For the first time use or frequency interference and unable to frequency, must bind frequency again.

**Step 1**



**CAUTION**  
Push the.throttle stick to the lowest position

ON/OFF

Push the.throttle stick to the lowest position, open the remote control power supply for frequency.

### Step 2

With the helicopter in flat position, according to graphic direction insert Li - Po battery to positioning, don't move fuselage, neutral point, turn on the power switch and the receiving red LED will be flashing light.



Electrode surface of battery face up.

### Step 3

The frequency of receiving plate red LED flashes, approximately 4 seconds after the LED constant light to frequency of success, if LED continues flashing expressed on the frequency of failure, must again perform steps 1 through 2 note must first open remote open plane switch on the code, so as to avoid injury.

LED

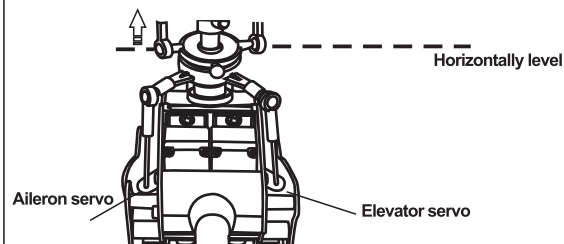
## 9.USAGE INSTRUCTIONS AND CHECK LISTS



Check the control directions with throttle off prior to flight.

### Step 1-1

Push right on aileron control, aileron servo will push the left side of swashplate.

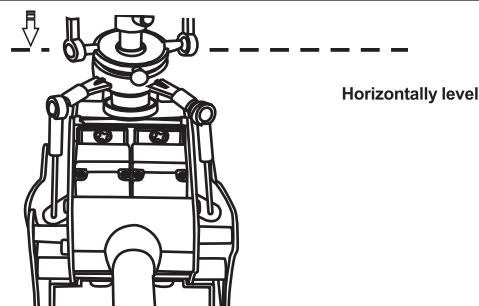


Aileron

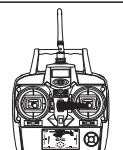


### Step 1-2

Push left on aileron control, aileron servo will push the left side of swashplate.

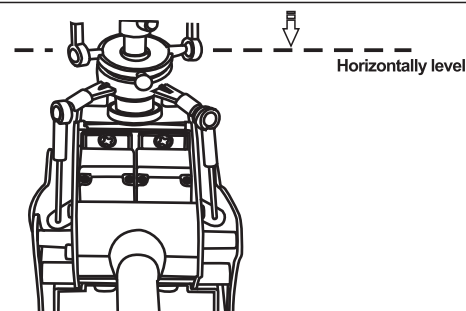


Aileron

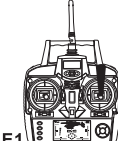


### Step 1-3 1

Push up on elevator control, elevator servo will push the right side of swashplate down.



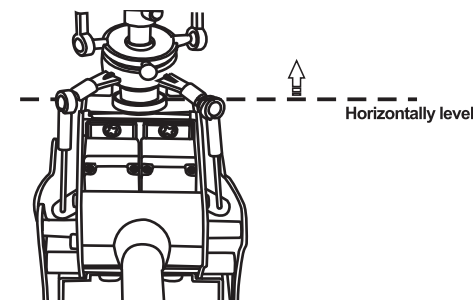
Elevator



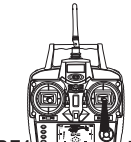
MODE1 MODE2

### Step 1-4 1

Push down on elevator control, elevator servo will push the right side of swashplate up.



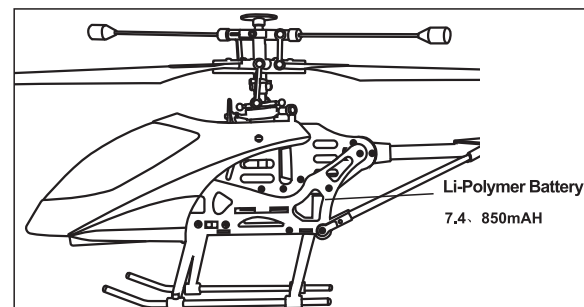
Elevator



MODE1 MODE2

### Step 2

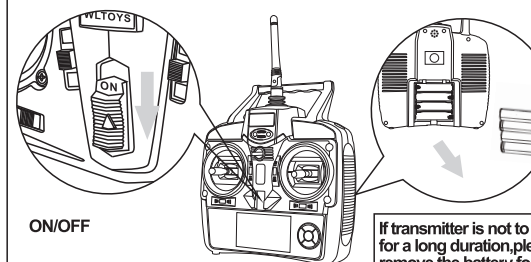
Remove the helicopter battery safely at the conclusion of flight. This should be made into a post flight habit to avoid unforeseeable problems.



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

### Step 3

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



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



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