

SINGLE-PROPELLER 4CH REMOTE HELICOPTER OPERATING INSTRUCTION

FOR MODEL NUMBER :FX037

1 Introduction

Please read the handbook carefully for handling the helicopter quickly and safely as well as keep it appropriately so that you can make a further reference.

2 Warning

- 1.This product is not a toy. It's a complex combination which gather the electronics, mechanics and aero dynamics all together. It requires proper setup and precise modulation to avoid accident. We will not undertake any responsibility of the injury caused while you play the helicopter and we will not make any compensation.
- 2.Please do not overcharge the battery for it may result in fire or explosion. Please stop charging immediately when the battery is hot during charging. Please use the charger which is compatible with the product to avoid short circuit.
- 3.This product is suitable for people older than 14 years who had got the experience of playing 4 channel helicopter.
- 4.When the helicopter is flying, stop the spinning wing by any reason or any crash will lead to damage or burning, in this case, please turn off the small accelerator immediately and keep the helicopter at the lowest position.
- 5.Please keep far away from crowds, buildings or high-voltage wire to avoid danger and damage while you are playing the helicopter.

3 Attention

- 1.For the helicopter is operated by radio control, the most important thing is making sure that the battery you used is new or fully charged. The helicopter will be out of control if the battery is using up, please keep the battery under the saturated condition.
- 2.Any electrical components becoming damp may cause damage, please keep them dry.
- 3.Check the radio equipment before playing.
- 4.If the helicopter is getting dirty, please clean it with the cloth which between wet and dry but without any dissolvent. Dissolvent will damage the plastic and composite parts.
- 5.Please turn on the remote controller first then link the power of helicopter before using. Turn off the power first then turn off the remote controller after using. The switch's order can not be wrong because the wrong order will lead to damage. Please cut off the power and connector wire of helicopter if you are not playing it. Fully charged for the helicopter which is not be used in one month.
- 6.Please do not shorten the antenna or make the helicopter out of the distance which you can not control during flying. For this case, the helicopter may be out of your control.
- 7.Please make sure that the antenna of remote controller is extended perfectly and towards the helicopter but not towards the floor.
- 8.It's forbade to play two or more helicopters with identical MHZ at the same time because the helicopter will be out of control.
- 9.Checking the direction (forward, backward, turn left, turn right) of servo could be the same with the remote controller. Using the broken-down servo will result in uncertain dangers.
- 10.Making sure all the screws and nuts are completely and tightly, no uncompleted or damaged parts. Checking the main blade carefully and make sure there is no damage of it, especially for the parts that close to the blade clip. Uncompleted or damaged parts not only impact the effect of flying but also exist uncertain dangers.
- 11.Checking all the Ring-like push-rod and making sure all are tightly. Renew them if they are doffed or it will impact the effect of flying and result in dangers.
- 12.Making sure the connection between battery and motor is tightly enough. The lasing shaken and stinging 3D action may cause the connector doffed then the helicopter will be out of control.
- 13.If you had already changed two batteries during flying, please cool the motor first then continue to play for lengthening motor's life. Motor will be extremely hot after flying. Do not touch it.

4 Specifications

Length: 438mm Height: 151mm Width: 80mm
Dia. Of main blade: 400mm Transmitter: 4 CH ppm Total weight: 238g (battery included)
Battery: 700mAh / 7.4V Lithium battery
FX037 receiving device: 3 in 1 receiver (receiver, speed controller, gyroscope).
Servo: weight 4.3g / speed 0.11 sec / 60°C 4.8V / torque 0.5kg / dimension 20.2*8.5*24.7mm

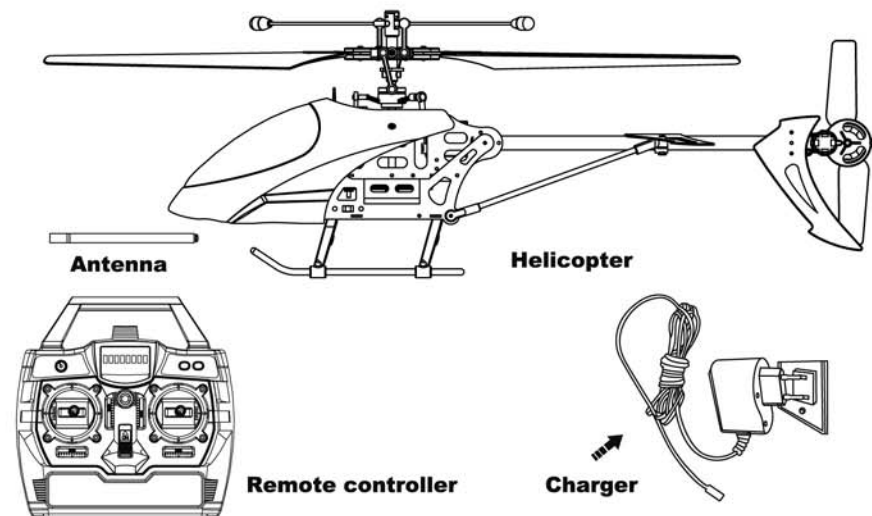
5 Superiority

- 1)The combination of prompt servos ensures various flight courses
- 2)The high-volume 700mAh/7.4V Li-Po battery ensures the time for flying will be long enough.
- 3)Good maneuverability , high-speed
- 4)Drop-resistant, crashed-resistant
- 5)Protection against stuck ,lower the damage while the helicopter crashed hardly.

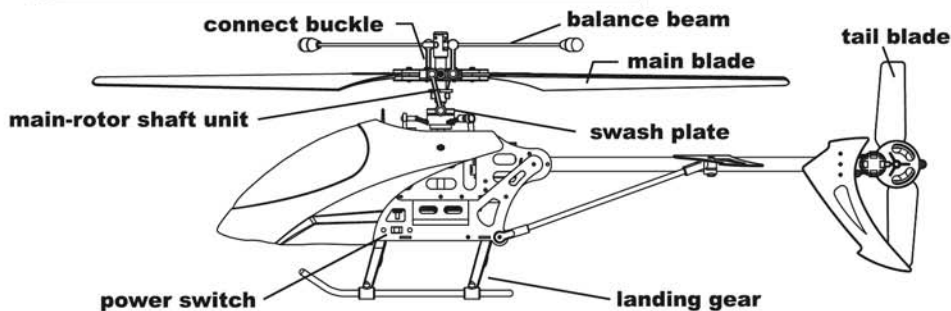
6 Transmitter features

- 1.The shape design accords with the ergonomics.
- 2.4CH micro-computer as the encoder ,GFSK modulation;
output power: ≤200mW; current drain: 150mA; Power: 1.5V*6AA dry cell.

7 Parts name of helicopter



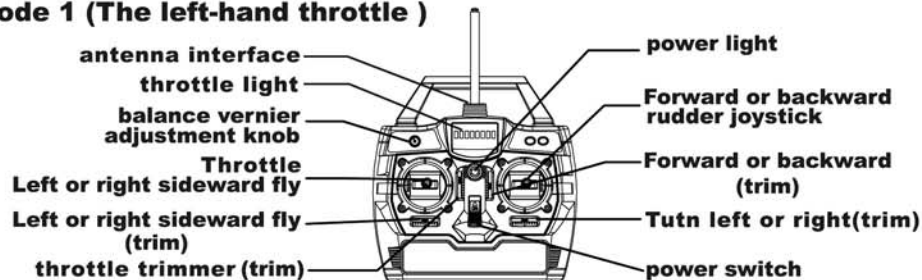
8 Main structure drawing of helicopter



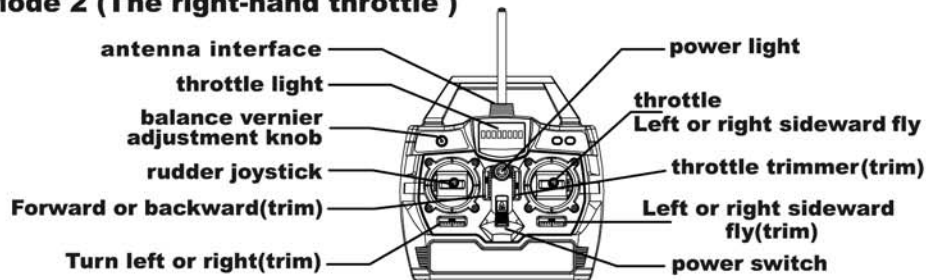
9 Parts name of the remote controller

(The general instruction manual, remote control model, please refer to the actual product in the package.)

Mode 1 (The left-hand throttle)

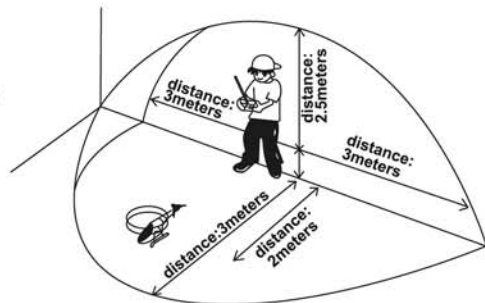


Mode 2 (The right-hand throttle)



10 Environment for playing

1. Playing on the sunny day.
2. Do not play the helicopter on the bad weather specially with strong wind.
3. Choosing spacious place indoor or outdoor to play and making sure there are no barriers, pets or people nearby.
4. Far away from wet environment
5. Far away from heat source



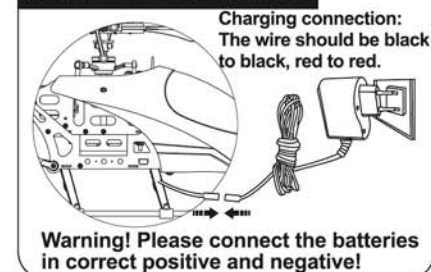
11 Charge

Plug the charge in the power supply socket, and insert the charger connector into the charging wire of the lithium battery. The charging time is normally 120 minutes or so. You can use it after completed charging. Overcharging may lead to fire and explosion.

Attention:

1. Making sure the voltage and connector plug of adapter are tally with the local charging standard.
2. You could not leave when the battery is in the process of charging.
3. The battery would be hot when the helicopter finished flying, please wait at least 30 minutes to cool it for protection.
4. Do not throw the battery into the fire to avoid explosion.

CHARGE ILLUSTRATION



⚠ Attention: Please turn the switch to OFF if you are not playing the helicopter for power conservation.

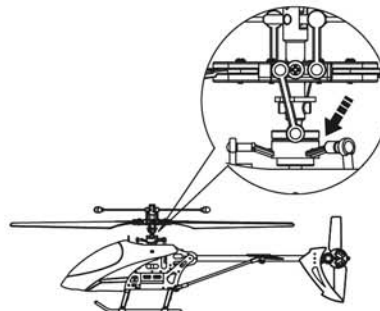
12 Frequency matching

Match the frequency of this model for the first time using. When matching the MHz, equal MHz can not be used at the same time for avoiding interference. Matching may out of work if here is some interference. operated way are as follow:

1. Push the throttle joystick to the lowest position and turn on the power of remotecontroller at the same time, elongate the antenna.
2. Turn on the power of the helicopter, put the helicopter on a spacious floor flatly, far away from people or objects. Leave the helicopter at least 2-3 meters away, while the tail aimed at you, the red lights of the head flash quickly, which means the helicopter is serching the remote control frequency automatically. When the red lights of the head flash slowly, it means the matching process is finished, you can be ready to fly.
3. Please make sure again that the flying place is safe, when there is no other people or objects around, you can get ready to fly.


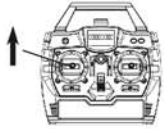

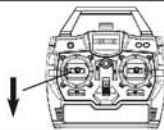

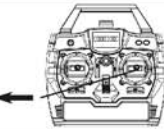
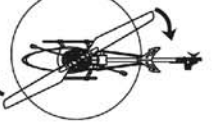
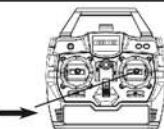

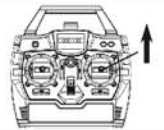
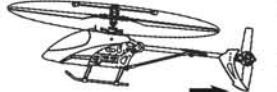
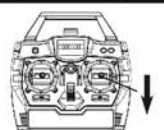
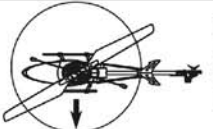
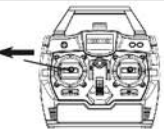
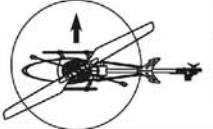
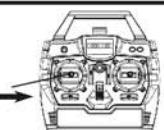
13 Swash plate adjustment


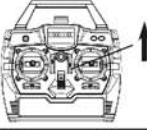

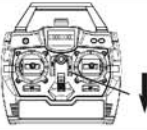
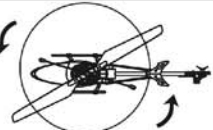
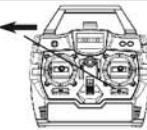
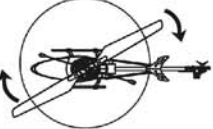
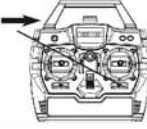

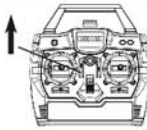

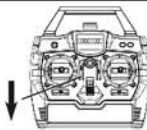
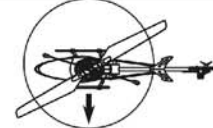
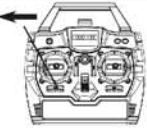
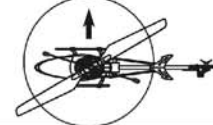
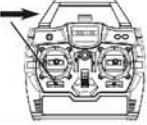
1. Inspection of swash plate adjustment: turn on the switch of remote controller, move the throttle joystick and throttle trimmer of remote controller to the lowest position, and move the elevator trimmer and aileron trim at the neutral position. Inspect whether the swash plate is horizontal or not.
2. Adjustment of swash plate: if the swash plate is not horizontal, you can adjust through the following steps: (1) Elevator and aileron adjustment. Loosen the steering engine bellcrank screws and the steering engine bellcrank screws then reconnect the power of the helicopter. Adjust the steering engine linkage rod bellcrank to 90° angle after the reposition of the elevator and aileron. Tighten the screws. (2) Adjust the length of the steering engine linkage rod to make the swash plate horizontal.




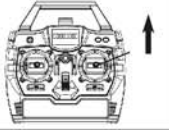

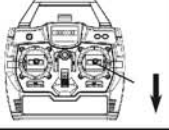
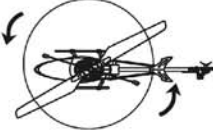
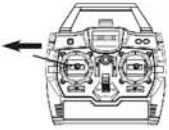
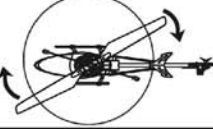
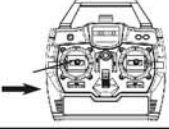
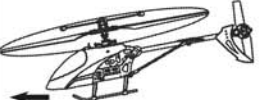
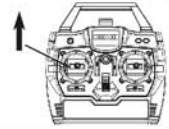
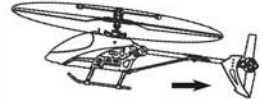
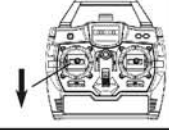
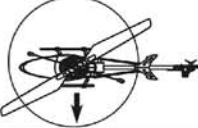
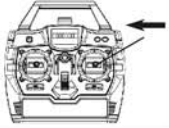
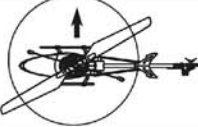
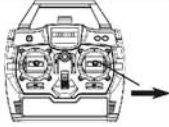
14 Operated way

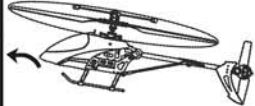
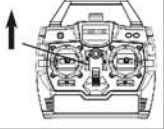
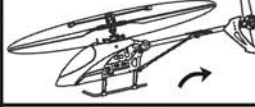
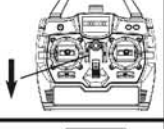
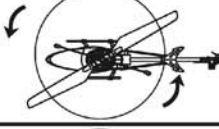
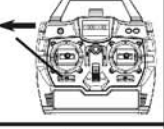
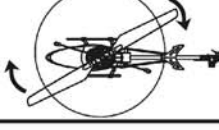
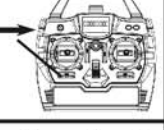

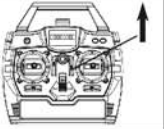

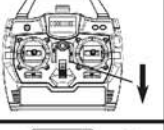
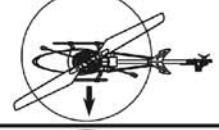
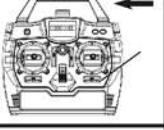
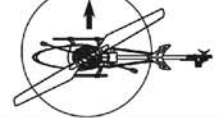
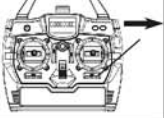
Mode 1 (The left-hand throttle)

Ascend		When you push up the left joystick(throttle),the spinning speed of the main rotor blade increases and the helicopter begins to ascend .	
Descend		When you push down the left joystick (throttle),the spinning speed of the main rotor blade decreases and the helicopter begins to descent.	
Left		When pushing the right-hand joystick to left ,the nose of helicopter will turn to left.	
Right		When pushing the right-hand joystick to right, the nose of helicopter will turn to right .	
Forward		When you push up the right-hand joystick ,the nose of helicopter will down then the helicopter moves forward .	
Backward		When you push down the right-hand joystick ,the nose of helicopter will up then the helicopter moves backward .	
Move left		When pushing the left-hand joystick to left ,the fuselage sloping to left then the helicopter moves to left as well.	
Move right		When pushing the left-hand joystick to right ,the fuselage sloping to right then the helicopter moves to right as well.	

Rudder trimmer (push up)		The helicopter is flying up and keep moving backward if you didn't trim the servo trimmer. Push the servo trimmer up until the helicopter stop moving backward.	
Rudder trimmer (push down)		The helicopter is flying up and keep moving forward if you didn't trim the servo trimmer. Push the servo trimmer down until the helicopter stop moving backward.	
Rudder trimmer (turn left)		The helicopter may circle clockwise in the sky if you didn't trim the rudder trimmer. Push the rudder trimmer to left until the helicopter stop circling.	
Rudder trimmer (turn right)		The helicopter may circle anticlockwise in the sky if you didn't trim the rudder trimmer. Push the rudder trimmer to right until the helicopter stop circling.	
Throttle trimmer (push up)		When you push the throttle joystick up but the helicopter unable to fly . Trim the throttle joystick up until the helicopter start flying.	
Throttle trimmer (push down)		If the helicopter is dynamic when you push the throttle joystick down to the bottom .Trim the throttle joystick up until the helicopter start flying.	
Sideward fly trimmer (turn left)		If the helicopter is unable to turn right , push the aileron trimmer to left until it can to do so.	
Sideward fly trimmer (turn right)		If the helicopter is unable to turn left , push the aileron trimmer to right until it can to do so.	

Mode 2 (The right-hand throttle)

Ascend		When you push up the right joystick(throttle),the spinning speed of the main rotor blade increases and the helicopter begins to ascend .	
Descend		When you push down the right joystick (throttle),the spinning speed of the main rotor blade decreases and the helicopter begins to descent.	
Left		When pushing the left-hand joystick to left ,the nose of helicopter will turn to left.	
Right		When pushing the left-hand joystick to right, the nose of helicopter will turn to right .	
Forward		When you push up the left-hand joystick ,the nose of helicopter will down then the helicopter moves forward .	
Backward		When you push down the left-hand joystick ,the nose of helicopter will up then the helicopter moves backward .	
Move left		When pushing the right-hand joystick to left ,the fuselage sloping to left then the helicopter moves to left as well.	
Move right		When pushing the right-hand joystick to right ,the fuselage sloping to right then the helicopter moves to right as well.	

Rudder trimmer (push up)		The helicopter is flying up and keep moving backward if you didn't trim the servo trimmer. Push the servo trimmer up until the helicopter stop moving backward.	
Rudder trimmer (push down)		The helicopter is flying up and keep moving forward if you didn't trim the servo trimmer. Push the servo trimmer down until the helicopter stop moving backward.	
Rudder trimmer (turn left)		The helicopter may circle clockwise in the sky if you didn't trim the rudder trimmer. Push the rudder trimmer to left until the helicopter stop circling.	
Rudder trimmer (turn right)		The helicopter may circle anticlockwise in the sky if you didn't trim the rudder trimmer. Push the rudder trimmer to right until the helicopter stop circling.	
Throttle trimmer (push up)		When you push the throttle joystick up but the helicopter unable to fly . Trim the throttle joystick up until the helicopter start flying.	
Throttle trimmer (push down)		If the helicopter is dynamic when you push the throttle joystick down to the bottom .Trim the throttle joystick up until the helicopter start flying.	
Sideward fly trimmer (turn left)		If the helicopter is unable to turn right ,push the aileron trimmer to left until it can to do so.	
Sideward fly trimmer (turn right)		If the helicopter is unable to turn left ,push the aileron trimmer to right until it can to do so.	

15 Checking items before / after playing

- 1.Check carefully whether there are loose screws or damaged parts. Stop flying if there exist such a problem .Renew the broken parts .
- 2.Clean the helicopter after playing .
- 3.To be on the safe side, making sure there were no defects of all parts .
- 4.Keep the helicopter in a cool and dry place. Avoid sunshine directly and far away from heat .

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Note: 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.