

SINGLE-PROPELLER 4CH REMOTE CONTROL HELICOPTER OPERATING INSTRUCTION FOR MODEL NUMBER : FX071C

1 Introduction

Please read the handbook carefully for handling the helicopter quickly and safely, also 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 and make any compensation for injury caused while you play the helicopter.
2. Please do not overcharge the battery that 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 and 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 down the accelerator immediately and keep the throttle joystick 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 in its effective operation distance 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 once 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 pointed to the helicopter but not pointed to the floor during helicopter is flying.
8. It's forbade to play two or more helicopters with identical MHZ at the same time, or 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 loose or it will impact the effect of flying and result in dangers.
12. Making sure the connector between battery, motor and other parts is tightly connected. The lasting shaken and stinging 3D actic- may cause the connector becoming loose 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: 400mm Height: 140mm Width: 85mm

Dia. Of main blade: 397mm Transmitter: 4 CH Total weight: about 262g (battery included)

Battery: 1000mAh / 7.4V rechargeable Lithium battery

FX071C receiving device: 3 in 1 receiver(receiver, speed controller, gyroscope).

Servo: weight 1.2g / speed 0.11 sec / 60° (3.7V) torque 0.5kg / dimension 20.2*8.5*24.7mm

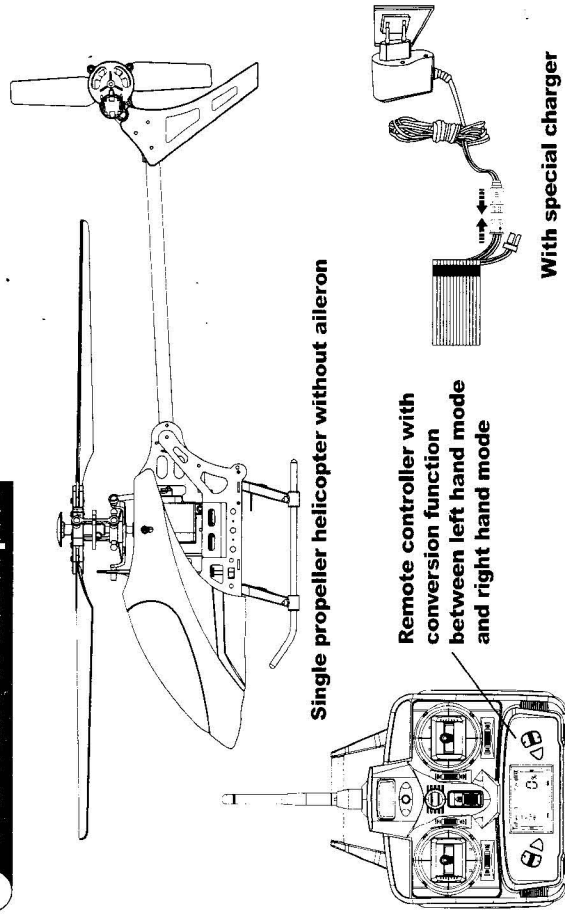
5 Superiority

- 1) The combination of prompt servos ensures various precise flight.
- 2) The high-volume 1000mAh / 7.4V Li-Po battery ensures the time for flying will be long enough. Flying time about 10-11 mins.
- 3) Good maneuverability, high-speed
- 4) With high crash resistant quality
- 5) Protection against stuck will reduce the damage while the helicopter crashed hardly.
- 6) The batteries and special charger can avoid overcharge, more durable.

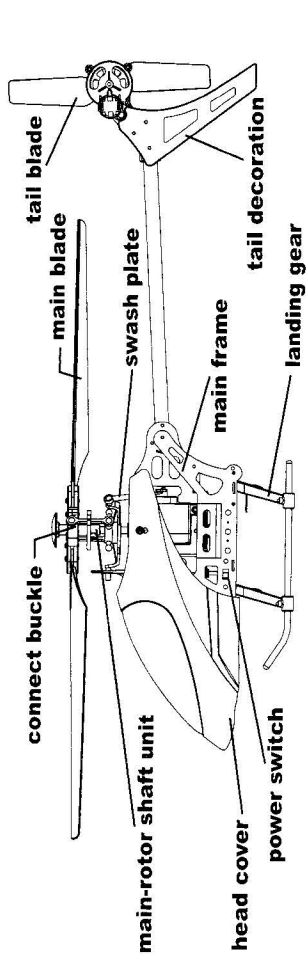
6 Transmitter features

1. The shape design accords with the ergonomics.
2. 4CH micro-computer as the encoder, GFSK modulation; output power: 5200mW; current drain: 150mA; Power: 1.5V*6AA dry cell.

7 Parts name of helicopter



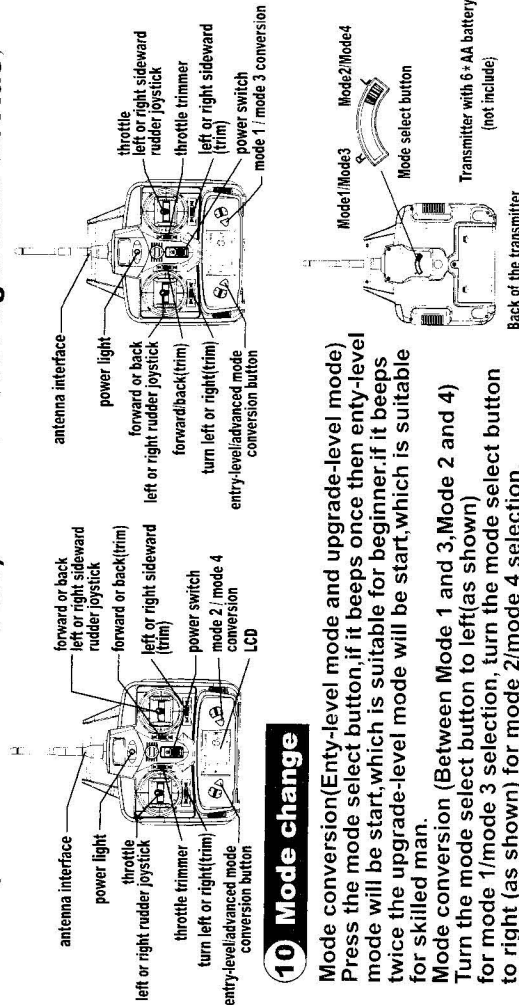
8 Structure diagram



9 Parts name of remote controller

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

Mode 2(The left-hand throttle) Mode 1 (The right-hand throttle)



10 Mode change

Mode conversion(Entry-level mode and upgrade-level mode)
Press the mode select button, if it beeps once then entry-level mode will be start, which is suitable for beginner. If it beeps twice the upgrade-level mode will be start, which is suitable for skilled man.

Mode conversion (Between Mode 1 and 3, Mode 2 and 4)
Turn the mode select button to left (as shown) for mode 1 / mode 3 selection, turn the mode select button to right (as shown) for mode 2 / mode 4 selection.

11 Switch of left hand and right hand mode

Turn the switch button on the back of remote controller for switching to left hand or right hand mode, turn to "L" for left hand mode, and turn to "R" for right hand mode.

12 Preflight environment

1. Flying in warm and breezy day.
2. Do not play in bad or windy weather.
3. Play in spacious place indoor or outdoor, be sure there is no barriers, pet or people nearby.
4. Keep away from the humid environment.
5. Keep away from the heat source.

13 Charge

When the USB connect with the power adapter or socket, the red light on the USB plug will turn on. Connect the battery to the USB charger - make sure the polarity is correct. The light on USB will turn off when charging and will turn on when the battery is fully charged.

Note: Do not over charge the battery, it will cause the battery failure, heating or burning!
Caution: Never leave battery charging unattended.

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.
5. When you don't want to play the helicopter, please cut the power off to avoid over discharge or battery damaged.

14 Frequency matching

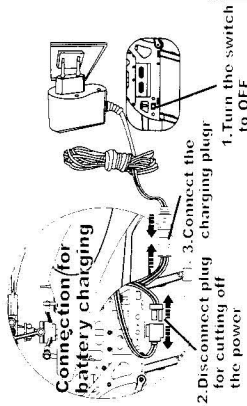
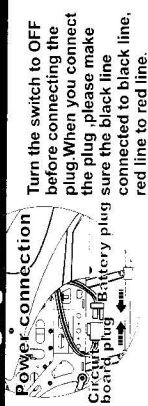
Match the frequency of this model for the first time using. When matching the MHz, equal MHz can not be used at the same time for avoiding interference. Matching may out of work if here is some interference. Operated way are as follow:

1. Push the throttle joystick to the lowest position and turn on the power of remote controller at the same time, elongate the antenna.
2. Turn on the power of the helicopter, put the helicopter on 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 searching 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 operate the helicopter.
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 make the helicopter fly.

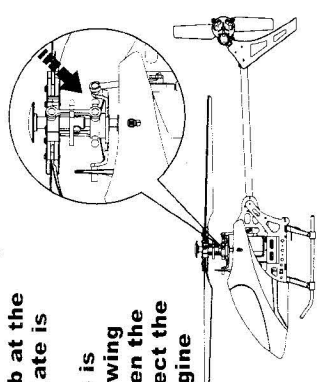
15 Swash plate adjustment

1. Inspection of swash plate: turn on the switch of remote controller, move the throttle joystick and remote controller throttle trimmer to the lowest position, and make the left/right fine adjustment knob elevator fine adjustment knob and sideways adjustment knob 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, 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.

Power connection method and charging method

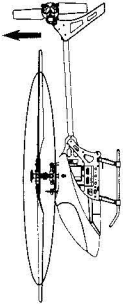
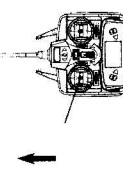
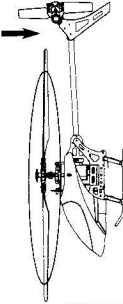
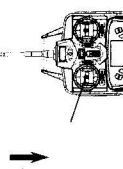
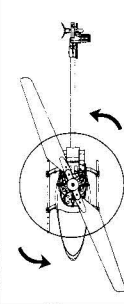
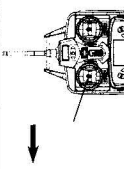
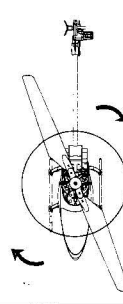
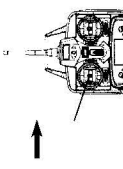
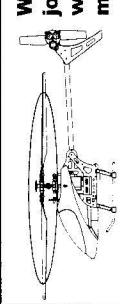
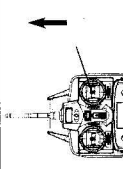
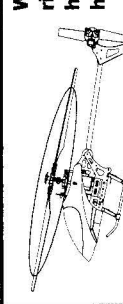

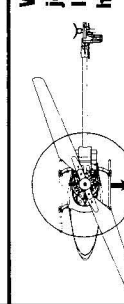
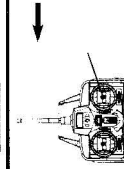
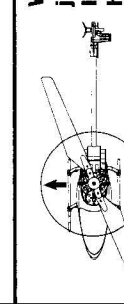
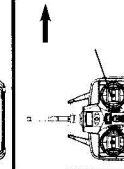


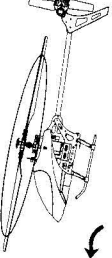
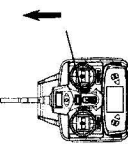
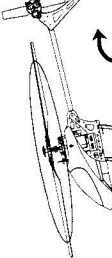
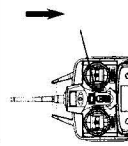
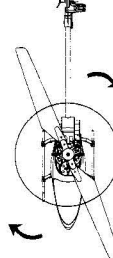
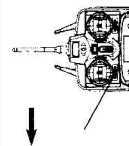
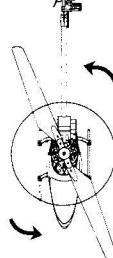
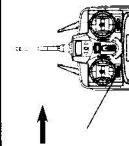
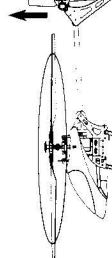
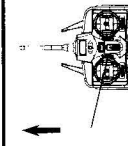
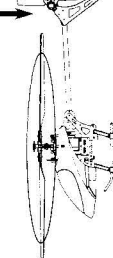
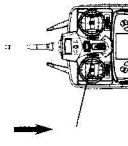
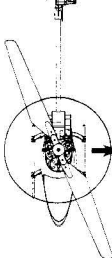
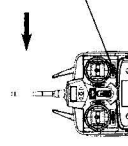
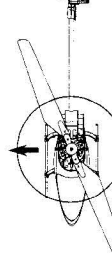
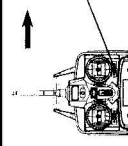
Warning! Please turn the switch of helicopter to OFF when charging for helicopter, then disconnect power plug and connect the charging.



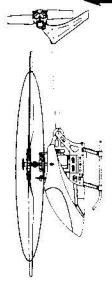
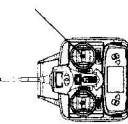
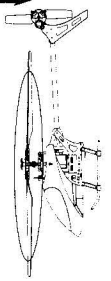
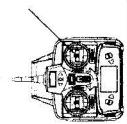
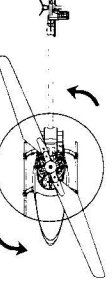
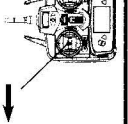
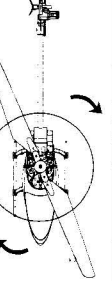
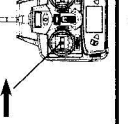
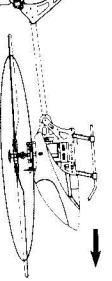
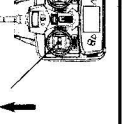
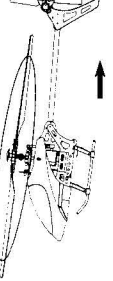
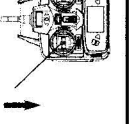
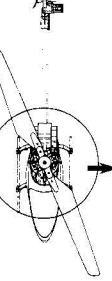
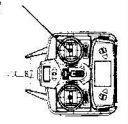
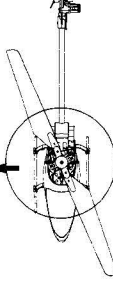
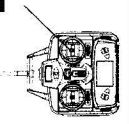
16 Operation method

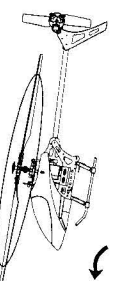
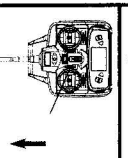
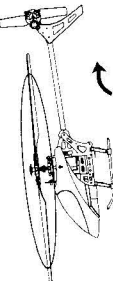
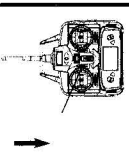
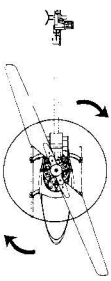
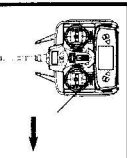
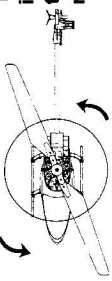
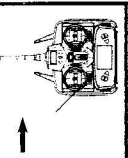
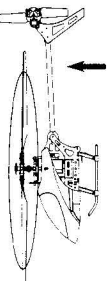
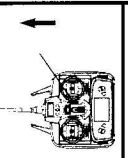
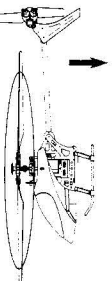
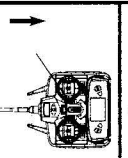
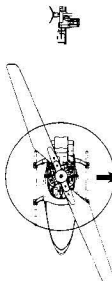
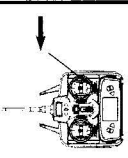
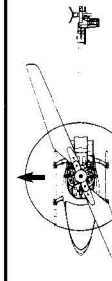
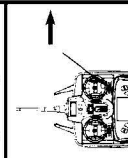
Below is mode 2, the left hand throttle operation instruction. Mode 4 is also left hand throttle, but with the opposite steering direction joystick and side flying joystick, which is different to mode 2.

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 pushing down the left joystick (throttle), the spinning speed of the main rotor blade decreases and the helicopter begins to descend. When pushing down to the bottom, the main rotor blade stop.	
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 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 right -hand joystick to left ,the fuselage leans to left then the helicopter moves to left as well.	
Move right		When pushing the right -hand joystick to right ,the fuselage leans to right then the helicopter moves to right as well.	

Forward and backward 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.	
Forward and 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 forward.	
Direction 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.	
Direction 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 forward.	
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 down until the helicopter stop flying.	
Sideward fly trimmer (turn left)		The helicopter is flying up and keep moving right sideways if you didn't trim the left-hand joystick. Push the sideward trimmer to left until the helicopter stop moving right sideways	
Sideward fly trimmer (turn right)		The helicopter is flying up and keep moving left sideways if you didn't trim the left-hand joystick. Push the sideward trimmer to right until the helicopter stop moving left sideways	

Below is mode 1, the right hand throttle operation instruction. Mode 3 is also right hand throttle, but with the opposite steering direction joystick and side flying joystick, which is different to mode 1.

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 descend.	
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 moves forward.	
Backward		When you push down the left-hand joystick, the nose of helicopter moves backward.	
Move left		When pushing the right-hand joystick to left, the fuselage leans to left then the helicopter moves to left as well.	
Move right		When pushing the right-hand joystick to right, the fuselage leans to right then the helicopter moves to right as well.	

Forward and backward 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.	
Forward and 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 forward.	
Direction 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.	
Direction 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 down until the helicopter stop flying.	
Sideward fly trimmer (turn left)		The helicopter is flying up and keep moving right sideway if you didn't trim the left-hand joystick. Push the sideward trimmer to left until the helicopter stop moving right sideway.	
Sideward fly trimmer (turn right)		The helicopter is flying up and keep moving left sideway if you didn't trim the right-hand joystick. Push the sideward trimmer to right until the helicopter stop moving left sideway.	

17 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.