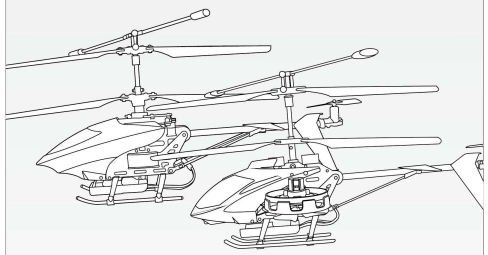
AGES14+

F+SERIES

Digital Scale RC Helicopter Series

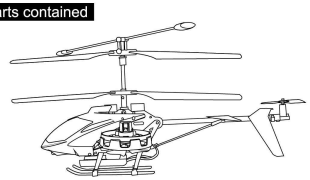


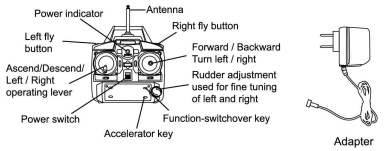
Users' Manual for Remote Controlled Helicopter

1. Intelligent control system.
2. Full-scale remote control.
3. 360°accurate orientation.
4. Properties of smooth suspension.
5. Newly R & D electricity-saving function.
6. Care about battery mode, extend its service life.
7. Unique accelerator key function.
8. The most advanced battery replacement mode.
9. The keys on the original unprecedented joystick double Heavy side fly operating mode.
10. Newly-appended function-switchover key
11. Employing 2.4G automatic frequency-hopping technology, several RC helicopters could fly simultaneously without mutual interference.

Read the entire users' manual before use (please read the notes carefully.)
Save this manual well for future reference.

Name of parts contained



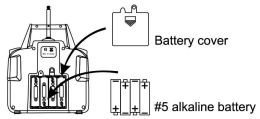


Adapter

Assembled remote controller

Installation method of battery: Open the battery cover on the back of remote controller. Four#5 alkaline batteries should be installed correctly in accordance with the instructions on battery box (batteries shall be purchased separately).

Notes:
1. When inserting batteries, user must check the positive and negative poles of batteries and the positive and negative terminals of battery box. Do not mingle them.
2. Do not use old and new batteries blended.
3. Do not use different types of batteries blended.



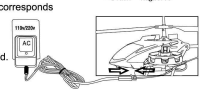
Battery cover

#5 alkaline battery

Instructions on battery charging

Plug the charger into power socket, at that time the charger LED light is green. Insert batteries into charger socket correctly as polarity instructions, then charging starts, and LED light turns into red. When charging is completed, LED light turns into green.

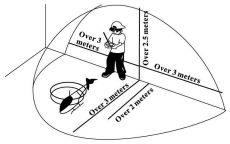
-- This product is equipped with built-in lithium battery; pay attention to the following safety issues when use.
-- The battery in accordance with red, black line corresponds to the fuselage slot cathode, anode insert.
-- Do not place charged battery in hot places for instance fire or electric heating device, otherwise damage or explosion may be caused.
-- Do not hit or strike hard surface with battery.
-- Do not immerse battery into water; battery should be stored in dry and cool place.
-- Only the charger supplemented with product can be used for charging.
-- Never leave charger alone when charging.



Notes ⚠
- When this helicopter is not used, please switch the power to "OFF" position to prevent battery from excessive discharge. In case that connector maintains connected, there is a possibility of excessive discharge caused by long-time power consumption.
- Adapter is required to be suitable for your local voltage.

Pre-flight environment

1. Fly in warm and sunny weather without wind.
① Do not fly in weather with extreme temperature;
Do not fly in weather with temperature higher than Fahrenheit 113 degrees;
Do not fly in extreme hot or cold weather.
② Do not fly in strong winds
Strong winds will cause constraint to flight or hinder your flight control.
In case of flight in strong winds, your helicopter will be missing or damaged.
2. Choose to fly inside of spacious room and make sure whether obstacles, pets and people are existed nearby or not.

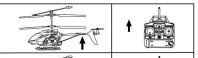
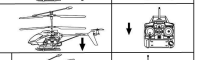
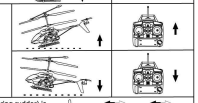
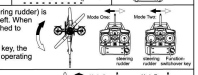
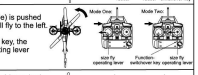
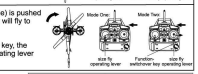


Flight preparation

1. Refer to the "Explanantion of 2.4GHz precise frequency-modulation",and complete frequency modulation.
2. Make sure that you stand behind the helicopter (its tail towards you) at least 2 meters.
3. Re-examine site far away from people, animals or other obstructions.
4. After finsh the operational process above,you can get ready to take it off.

Notes ⚠
In case that the indicator of remote controller flashes, it means that the electric quantity of battery is insufficient. At that time, you have to replace batteries for your remote controller.

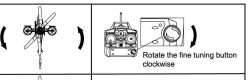
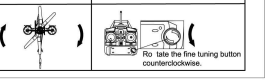
Operational method

Ascend	When the left operating lever (throttle) is pushed upwards, the rotating speed of main rotor wing increases, helicopter rises.	
Descend	When the left operating lever (throttle) is pushed downwards, the rotating speed of main rotor wing decreases, helicopter descends.	
Advance and Withdraw	When the right operating lever (steering rudder) is pushed upwards, the nose of helicopter is facing downwards. Helicopter will advance forward. When the right operating lever (steering rudder) is pushed downwards, the nose of helicopter is facing upwards. Helicopter will withdraw backwards.	
Turn around	Mode One:When the right operating lever (steering rudder) is pushed to the left, the nose of helicopter turns left. When the right operating lever (steering rudder) ispushed to the right, the nose of helicopter turns right. Mode Two:When press the function-switchover key, the operation of turnaround changes from the right operating lever to the left operating lever.	
Left fly	Mode One:When the left operating lever (throttle) is pushed left or the left fly button is pressed,helicopter will fly to the left. Mode Two:When press the function-switchover key, the operation of left fly changes from the left operating lever to the right operating lever.	
Right fly	Mode One:When the left operating lever (throttle) is pushed right or the right fly button is pressed,helicopter will fly to the right. Mode Two:When press the function-switchover key, the operation of right fly changes from the left operating lever to the right operating lever.	

Special tips

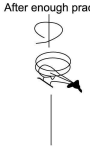
In case that direction operating lever is not pushed during flight, the helicopter is still spinning in the air; then you can adjust the fine tuning button of direction rudder till the helicopter is not spinning.
(In case that the nose of helicopter is spinning clockwise in the air, you can adjust the direction rudder knob towards left; otherwise, you can adjust the direction rudder knob towards right; in case that adjustment of left-right fine-tuning knob is invalid, then land the helicopter and turn the power switch of helicopter from "ON" to "OFF", and then "ON". Take the helicopter off once again, and then re-adjust the left-right fine-tuning knob.)

Notes
When helicopter is 30cm above the ground, it will become unstable due to the impact of its paddle vortex, which is called "land-effect reaction". The lower helicopter's weight is, the greater the effect of land effect reaction is.

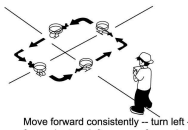
In case that the nose of helicopter is spinning counterclockwise, you can adjust the direction rudder knob towards right till helicopter does not spin.	
In case that the nose of helicopter is spinning clockwise, you can adjust the direction rudder knob towards left till helicopter does not spin.	

Flight exercise

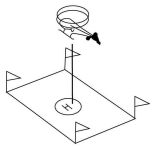
After enough practice, try the following flight exercise.



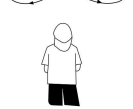
Rotation at fixed point (directional rotation)



Move forward consistently -- turn left -- mover forward -- turn left -- mover forward -- turn left. Practice flying as a square pattern, practice over and over again, and gradually practice flying as a circle.



Land at designated location (land at fixed point)



(flight as figure 8)

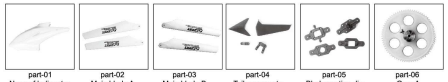
Problem-solving guidelines

Problems	Reasons	Solutions
Remote controller without power	1.Switch is adjusted at "OFF" position.	1.Adjust switch at "ON" position.
	2.Batteries are not installed as correct polarity instructions.	3.Check and ensure that batteries are installed correctly as the polarity instructions on battery box.
	3.Batteries are depleted.	3.Replace batteries.
Ineffective remote controller	1.Remote controller is not open.	1.Turn the switch of remote controller to "ON" position.
	2.The switch of helicopter is at "OFF" position.	2.Turn the switch of helicopter to "ON" position.
	3.Strong wind.	3.Never fly in wind. Wind may cause limit on aircraft or hinder your flight control.
Helicopter can't rise up.	1.The rotation speed of rotor wing is too slow.	1.Push the power-control rod upwards.
	2.Helicopter is not fully charged.	2.Charge helicopter fully.
Helicopter lands soon.	Pull back power-control rod too fast.	Pull back power-control slowly to land helicopter slowly.

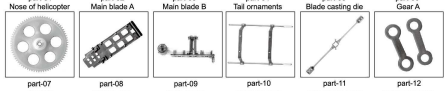
Notes

1. Remote controller or electric quantity of helicopter is insufficient. The distance of remote control is affected and the distance is short.
2. If the electric quantity of helicopter is insufficient, the flight height is not enough or it is hard to take off.
3. If helicopter is damaged or deformed, please repair it timely. If it is severely damaged such as broken rotor wing, flight is forbidden. Otherwise it may cause injury.
4. In case that helicopter is not used for long term, remove the batteries of remote controller, lest battery leakage causes damage to this product.
5. It is forbidden to make air crash of helicopter from height or serious collision; this will damage helicopter or shorten the service life of helicopter.

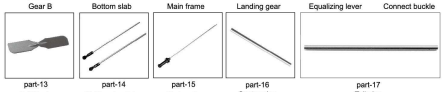
Accessories



part-01 Nose of helicopter | part-02 Main blade A | part-03 Main blade B | part-04 Tail ornaments | part-05 Blade casting die | part-06 Gear A



part-07 Gear B | part-08 Bottom slab | part-09 Main frame | part-10 Landing gear | part-11 Equalizing lever | part-12 Connect buckle



part-13 Tail blade | part-14 Tail bracing tube | part-15 Main axle | part-16 Center pipe | part-17 Tail pipe

part-18 Metal frame of main frame | part-19 Large bearing | part-20 Small bearing | part-21 main electric motor in front part | part-22 main electric motor in back part | part-23 Tail electric motor

part-24 Polymer lithium-ion battery | part-25 Receiver | part-26 Adapter | part-27 Remote controller | part-28 Side fly a | part-29 Side fly motor

part-30 Side fly blade | part-31 Nose of helicopter | part-32 Steering engine | part-33 Motor of steering engine