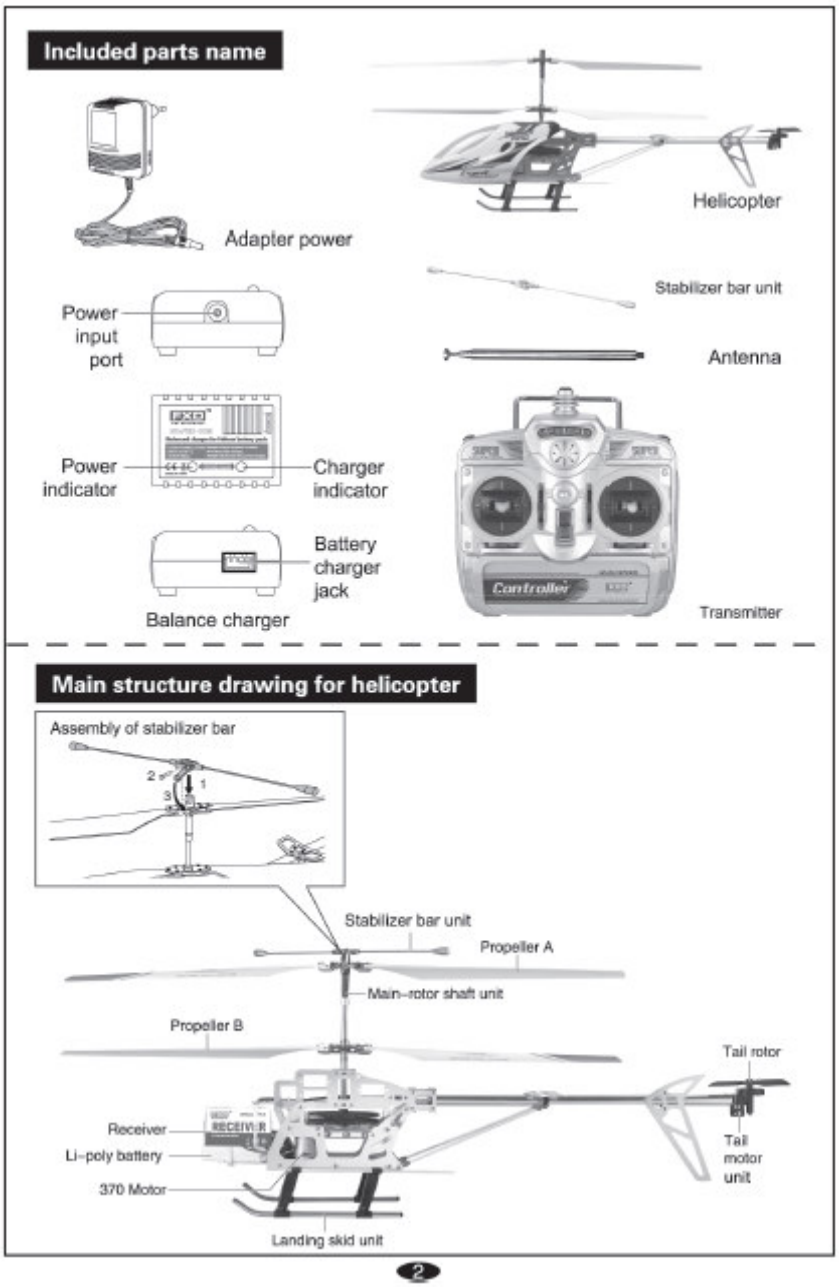
Appendix 5

User manual

Appendix 5


Included parts name
Adapter power
Helicopter
Stabilizer bar unit
Power input port
Antenna
Power indicator
Charger indicator
Battery charger jack
Balance charger
Transmitter
Main structure drawing for helicopter
Assembly of stabilizer bar
Stabilizer bar unit
Propeller A
Main-rotor shaft unit
Propeller B
Tail rotor
Receiver
Li-poly battery
370 Motor
Tail motor unit
Landing skid unit
2

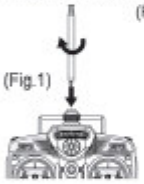
Appendix 5

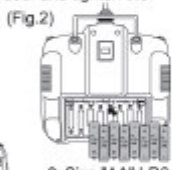
Part name of the transmitter

Assembly transmitter

1.Screw the antenna into the top of the controller.
Tighten finger-tight(Do not overtighten.).(Fig.1)
2.Battery Installtion:
-Be sure the power switch of the controller is in the "OFF" position before installing batteries.
-Unscrew the battery door on the back of the controller with a Phillips screwdriver and insert 8 "AA" size 1.5V alkaline batteries (not included) into the battery compartment.Be sure the polarity of the batteries is correct according to the diagram on the battery compartment.Replace the battery door and tighten the screw. Do NOT over tighten.

⚠ NOTICE:
1.Install the battery make sure the battery and battery box is precise.
2.Do not mix old and new batteries together when in use.
3.Please don't mix different types of batteries when in use.
4.When the LED red light of the transmitter is on,it means that the voltage is enough.
5.When the LED red light of the transmitter is blinking,it means that the battery is low,please replace the new battery.



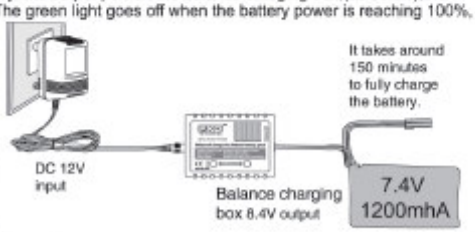


8xSize "AA" LR6 1.5V batteries

Charge

1.Insert the DC 12V output port of adapter to the input jack of battery box,then the red light(power indicator)is lit up on the charge box.
2.Put the three-pin plug of airplane battery into output port on the balance charging box,(as below),then the green light(charge lamp) is lit up.The green light goes off when the battery power is reaching 100%, it means that battery is fully recharged.

Attention:
1.Make sure the voltage and connector plug of adapter tally with the local charging standard.
2.The battery pack will become warm when charging excessively.it is harmful to the battery pack and would even make the battery pack damaged,please stop charging under this situation.
3.Player should stand aside as the plane in the process of charging.
4.This adapter adopted the advanced balance charging model for safety,please do not use other type of adapter in order to avoid explode.
5.The battery pack would become very hot when the plane finishes flying,please wait at least 30 minutes for continuous charging in order to protect the battery pack.
6.Do not throw the battery pack into fire to avoid explosion.

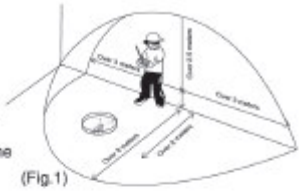


⚠ WARNING:
When you are tied of playing,please pull out the connecting plug to avoid the battery over discharge,if the linker keeping to connected,may cause the over discharge as the battery long time power wasting.

3

Before the flight of the environment and preparation:

1.Fly on a sunny day,without wind.
①Do not fly in extreme temperature.Do not fly in temperature above 113 degrees Fahrenheit.Flying in extreme heat and/of cold will affect performance and may damage the model.
②Do not fly in strong wind.Windy conditions will limit,or disturb the flying control.In very windy conditions,your helicopter may become lost and/or damaged.
2.Choose in the wide indoor flight, and make sure that no obstructions pets and people nearby(Fig.1).
3.When turn on the power switch of the transmitter,the LED light is blinking at the same time,you need to push the throttle to highest position and then return to lowest position,this can enable to control the helicopter flight(Fig.2)


(Fig.1)

(Fig.2)

Control method:

Ascend	When you push up the left stick(throttle stick), the spinning speed of the main rotor blade increases and the helicopter begins to ascend.	 
Descend	When you pull down left stick(throttle stick), the spinning speed of the main rotor blade decreases and the helicopter begins to descend.	 
Left	When pushing the right control lever (rudder) to the left, the helicopter nose will turn to the left;	 
Right	When pushing the right control lever (rudder) to the right, the helicopter nose will turn to the right;	 
Forward	When you push up the right control lever(steering rudder), the nose inclines down, the helicopter is moving forward.	 
Backward	When you push down the right control lever (steering rudder), the nose inclines up, the helicopter is moving backward.	 

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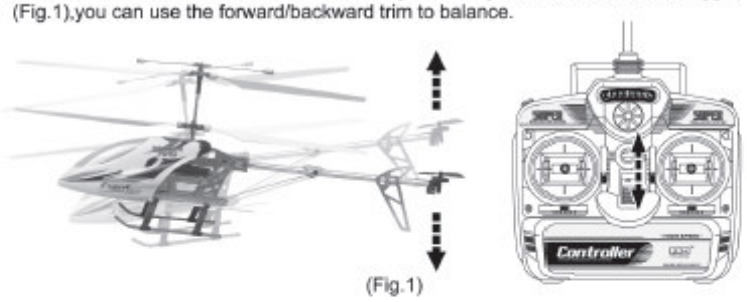
Appendix 5

SPECIAL PROMPT

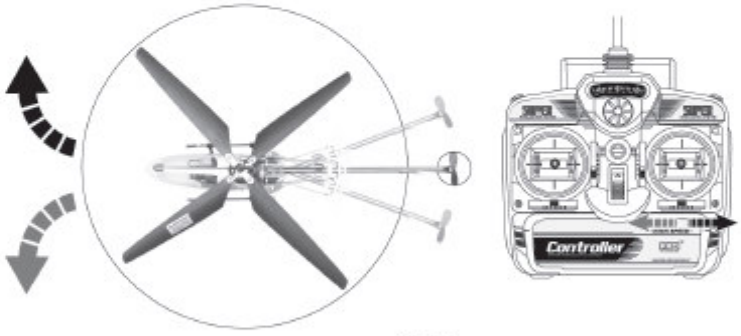
First to smooth the airplane before it ready to fly.

1.Push up the throttle gradually to let the aircraft left the ground,you can be observed that the focus of the direction of the aircraft,during the swing back and forth is the bigger (Fig.1),you can use the forward/backward trim to balance.



(Fig.1)

2.When the helicopter is turning to left/rigth,gradually pull the "left/rigth turn(tirm)" to left/rigth until the helicopter is still.(Fig.2)



(Fig.2)

⚠ NOTICE:

When the airplane away from the ground in 30cm position,the helicopter will suffer by itself blade vortex to became unstable,we call it "effect response",when the helicopter weight lower,and the "effect response" affect will be bigger.

Appendix 5

Trouble shoot and dealing wit

PROBLEM	CAUSE	CHECK THIS
The transmitter no power/ power is not enough	1. Controller's power switch is "OFF".	1.Turn power switch "ON".
	2. Insert batteries into controller improperly.	2.Confirm batteries be inserted according to their pole.
	3. The LED light is blinking.	3.Change new batteries instead.
Can't control/The airplane no working	1. You haven't operated the controller.	1.Turn controller power switch "ON".
	2. Doesn't turn "OFF" controllers power switch.	2.Turn helicopters power switch "ON".
	3. Doesn't wrest antenna into controller completely,or antenna isn't fully pulled out.	3.Wrest antenna completely and pull it out.
	4.You play the helicopter in strong winds weather.	4.Do not play the chopper in winds, which can confuse your control.
Helicopter can not rise	1. Main rotor blades rotates too slowly.	1.Pull up the throttle stick.
	2.Doesn't fully charge helicopters battery.	2.Fully charge helicopter battery. (see instruction above)
Helicopter land too fast.	You loose the throttle stick or pull it down too fast.	Slowly pull down the throttle till the chopper lands smoothly.

CAUTION

1. The control distance will be shorter or the helicopter will be out of control when the controller or helicopter battery power is not enough.
2. When the power of the electricity of the helicopter is not full, the helicopter will be difficult to ascend or the height of flight will be not enough.
3. If the helicopter becomes damaged, deformed, please repair in time.
4. If you don't use the transmitter for a long time. Remove all batteries to avoid the battery leakage and damage this product.
5. Don't drop the helicopter from high position or crash it seriously,because that will damage it seriously or shorten the using time.

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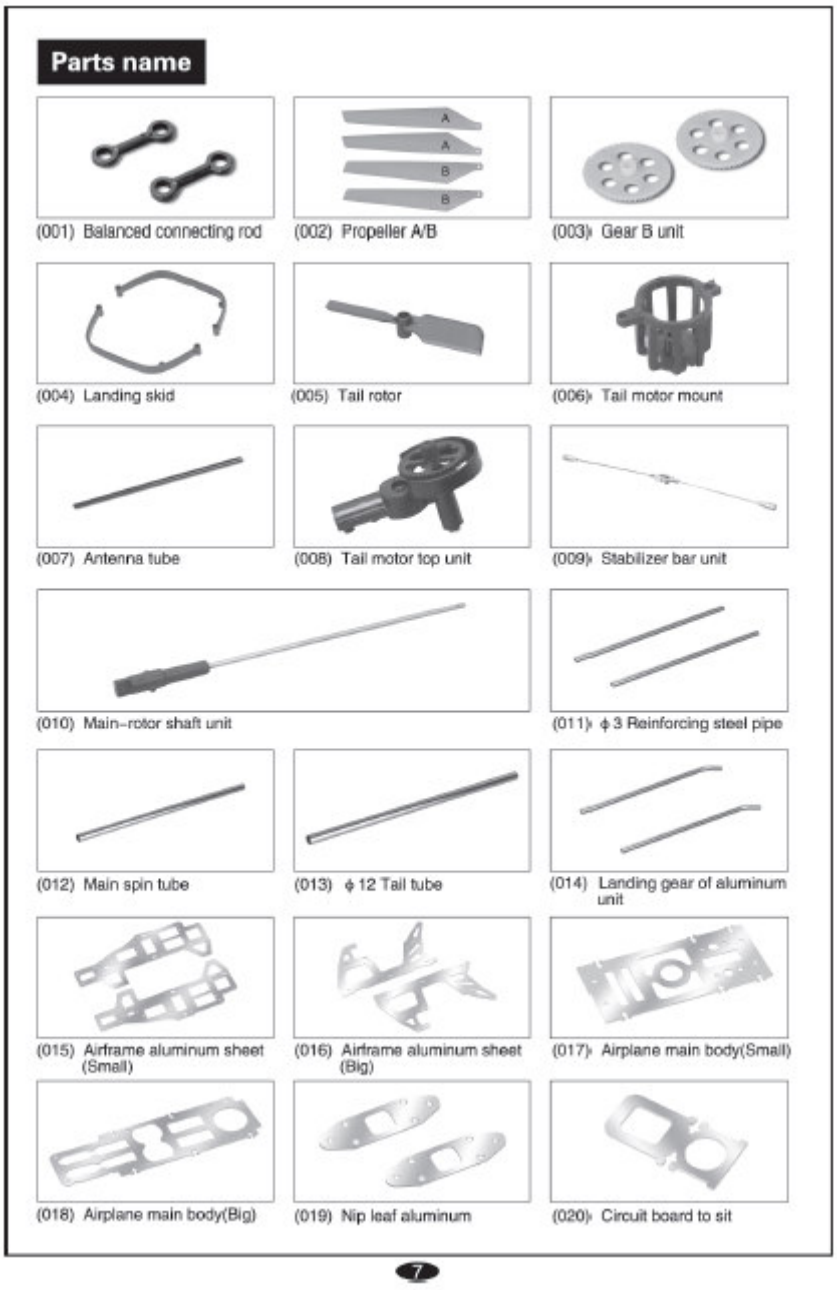
Appendix 5


Parts name
(001) Balanced connecting rod
(002) Propeller A/B
(003) Gear B unit
(004) Landing skid
(005) Tail rotor
(006) Tail motor mount
(007) Antenna tube
(008) Tail motor top unit
(009) Stabilizer bar unit
(010) Main-rotor shaft unit
(011) ϕ3 Reinforcing steel pipe
(012) Main spin tube
(013) ϕ12 Tail tube
(014) Landing gear of aluminum unit
(015) Airframe aluminum sheet (Small)
(016) Airframe aluminum sheet (Big)
(017) Airplane main body(Small)
(018) Airplane main body(Big)
(019) Nip leaf aluminum
(020) Circuit board to sit
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Appendix 5


Parts name
(021) Vertical tail
(022) Stabilizer
(023) Bushing reinforcing sleeve cover
(024) Bearing sets
(025) Rear tail tube sets
(026) Rear tail nip
(027) 20mm Cuprum shaft
(028) 14mm Cuprum shaft
(029) Bushing fixed set
(030) Bushing locating sleeve
(031) 370 motor
(032) Tail motor
(033) Li-poly battery
RECEIVER
(034) Receiver
(035) Adapter
(036) Balance charger
(037) Transmitter
(038) Antenna
(039) Colored light unit
(040) Shell unit
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Appendix 5

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.

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

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.**