SKY CUB 2.4GHz RC Plane

Instruction Manual

Note: Attempting to fly the RC Sky Cub without completely reading the manual may cause injury to yourself and people in the vicinity, as well as damage to the RC Model . Do read through the manual before flying.

Specification

Wingspan:	540 mm（21.3in）
Length:	385 mm（15.2in）
Battery:	3.7V 150mAh Li-PO
Charging Time:	30 Mins each time
Flying Time :	>15min
Control Distance:	>150m

Suitable For 14 And Over

Introduction

“Sky Cub” 3CH RC Glider is an superior and sophisticated RC plane suitable for both RC fan and beginner . You can master the basic flying within very short time and even challenge looping , “8” flying and more acrobatic flight .
“ Sky Cub” is designed mostly for outdoor flight , but you may also fly it in relatively wide space like stadium . The 2.4GHz high technology make it possble for multi -model flight . The model is 100% assembled and you just need to charge the battery and fly it !

Warning !

Age Recommendation : 14 years or over. This is not a toy. Children must have adult supervision whenplay .

- This model is NOT A TOY ! misuse may cause serious hurt !
- Do follow up “Note On Lithium Polymer (Li-PO) in handling the battery
- Do not fly in area close to high-voltage or crowd !
- Do not fly when wind is above 4M/S .
- Do not fly in rain, thunder, snow days .
- Do not touch the spinning propeller !
- Do not toss out the plane to people . This may cause injury !
- If the plane get tangled in tree or other obstacles. Do not try to take without confirming the safety . (Especially For Children below 14)

Note on Lithium Polymer Batteries

Li-Po battery is not as stable as alkaline and Ni-Cd/Ni-MH battery , you must follow the follwing instructions and deal with it with care ! As the user of this product , you are solely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

- **Only charge other batteries with sky Cub standard transmitter or charger**
- **Never charge near or in the area of any flammable materials**
- **When charging the battery you should always remain in constant observation to monitor the charging process and react to potential problems that may occur.**
- **If at any time during the charge or discharge process the battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe it for at least 15 minutes.**
- **Do not continue charging a battery that has begun to balloon or swell .Handle the lithium battery safely. After flight, the Li-Po batteries must be cooled to the room temperature before charging.**
- ***Do not over-discharge the Li-Po flight battery. Discharging the battery too low can cause damage to the battery resulting in reduced power, duration or failure of the battery entirely***
- **Please store the battery in cool ,dry places under 25 degrees Celsius when you are not using it .**

Checklist

Please contact the dealer timely when you found any parts missing .

Articles	Quantity
● Sky Cub Glider	1
● 2.4Ghz Transmitter	1
● 3.7V 150mAh Lithium battery	1
● AA Battery	4
● Spare Propeller	1
● Instruction Manual	1

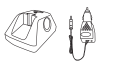
Optional Parts

Please contact the dealer when you are in need

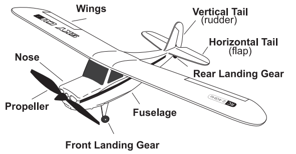
You can also buy optional charging parts.

Mode 1: Put 4 pcs of AA batteries into the charger and charge the battery.

Mode 2: Connect the vehicle power with the charger and charge the battery in the car

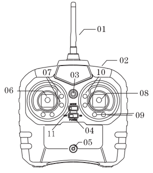

charger　　vehicle power

Plane Parts List



Transmitter Functions

please read following instructions very carefullyand keep them in mind



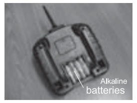
This 2.4GHz transmistter enable you fly your plane together with at a maximum of 60 planes without any signal interference !

NO.	Name	Description
01	Antenna	Signal
02	body	
03	Power indicator	blink when match frequency
04	Power switch	
05	charging indicator	light when charging
06	Left hand joystick	control the throttle
07	Throttle trim button	trim for throttle power
08	Right hand joystick	ascend,descend, turn left and right
09	Rudder trim button	trim for the turning left or right
10	Flap trim button	trim for ascending or descending
11	Mode selection	This can only be changed by factory

Before Flying (1)

please read following instructions very carefullyand keep them in mind

❶Put The 4 AA Batteries Into The Transmitter



1. Put the 4 pcs AA batteries into the transmitter . (Replace with Alkaline battery in future)
2. Turn on the switch and the “Power Indicator (03) ” shall start blinking .

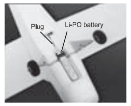
Warning ! ⚠
Must install the batteries correspond with the manual,otherwise may cause shortage and lead to fire or explosion etc!

❷ Charge The Li-PO Battery

1. Take out the lithium battery and insert it into the socket on back of the transmitter .
2. Turn over the transmitter and when the charging indicator (part no.5 in “Transmitter Funtions”) get red means the battery is properly being charged .
3. Pull out the battery when the indicator light get off . (usually takes 30 mins) Now the battery is ready for flying .

❸ Install The Li-PO Battery

1. Take out the wire (with plug) gently
2. Connect the battery to the plug
3. Stick the battery to the fuselage as shown in left picture . At the same time put the wire inside the fuselage.

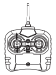


❹ Activate The Radio System (shut off safety protection system)

The model has protection system in order to avoid accidental operation. Only when the system is shut down can the model be activated and start flying .

How To Shut Off The Protection System: (see the *right picture*)

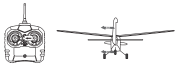
1. Switch the power “On” (the power indicator will begin blinking)
2. Push the left hand joystick from the top to the bottom, the radio will beep twice and the indicator will stop blinking . At the same time the Red LED in side the fuselage will also stop blinking to show that the protection system is shut off and now you can start control the plane.



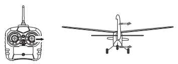
❺ Model Test (To learn about how to handle transmitter)

Though All The Sky Cub is strictly tested . There is still risk that the model get damaged during shipping and you must do the model test to confirm that the model is ready to fly.

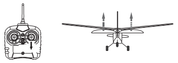
Step 1
Move the right joystick leftwards and the rudder shall turn left .
(While flying the plane will turn left)



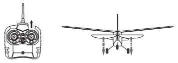
Step 2
Move the right joystick rightwards and the rudder shall turn right .
(While flying the plane will turn right)



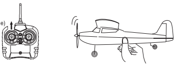
Step 3
Move the right joystick downwards and the flap shall turn ***UP***.
(While flying the plane will go up)



Step 4
Move the right joystick upwards and the flap shall turn ***Down***.
(While flying the plane will go down)



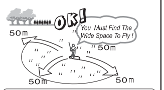
Step 5
With right hand holding the plane and left hand pushing up the left joystick(throttle) the propeller will spin and the more you push the faster the propeller spins.
(while in flying the plane will go up)



Before Flying(2)

⚠ It is very important to choose the suitable place to fly

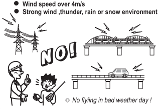
How To Choose The Place


OK!
You Must Find The Wide Space To Fly !
50m
50m
50m
50m

50M Radius space without any obstacle is good

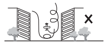
DO NOT FLY IN FOLLOWING PLACES !

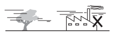
- **Near the crowd, high voltage**
- **Near any obstacles**
- **Wind speed over 4m/s**
- **Strong wind ,thunder, rain or snow environment**



☺ *No flyiing in bad weather day !*

No flying in The Following Places !


Inbetween High Buildings (airflow is unstable)


At Strong Wind Circumstances

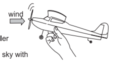
Downwards Blowing Airflow

Learn To Fly

⚠ It is very important to read this before your first flight

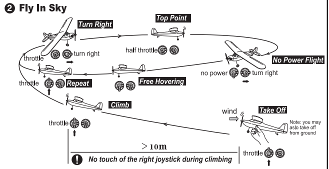
Do follow up the following steps to learn about the model and trim the model if necessary.

❶ Take Off



- Stand in middle of a wide area , facing the wind .
- Hold the plane above head .
- Push the left joystick (throttle) to the top and keep the propeller spinning .
- Keep the nose in a climbing style and toss the model into the sky with strength .
- When the plane is in sky, pull the right joystick and help the plane climbing .

❷ Fly In Sky



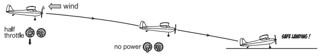
No touch of the right joystick during climbing

● ***Basic Flying Route***

⚠NOTE ***Do not let the plane be out of sight during flying !***

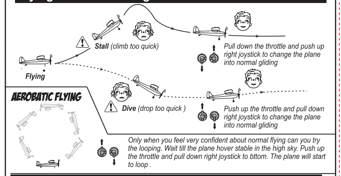
❸ Landing

● ***When the plane fly for about 10 mins, the battery will get low and you need to land the plane as shown in the picture below .***



Landing should be in a very natural and slow style ,Move the right joystick a little if you feel the landing is too quick .

Flying Problem Solving



Stall *(climb too quick)*

Pull down the throttle and push up right joystick to change the plane into normal gliding

Dive *(drop too quick)*

Push up the throttle and pull down right joystick to change the plane into normal gliding

Only when you feel very confident about normal flying can you try the looping. Wait till the plane hover stable in the high sky. Push up the throttle and pull down right joystick to bttom. The plane will start to loop .

Breakdown Solving Guide

	Problem	Possible Reason	Solution
01	Model out of control	● Lithium battery get low	Fully charge the battery
		● Protection system is not closed	Close the protection system
		● Frequency is skipping ※	match the frenquency again (see below)
02	Left and right joystick in wrong function	○ Mode switch is not on the right position	Push the mode switch to “2” position
03	The fly can not last long enough	● The lithium battery is low	Fully charge the lithium battery
		● The transmiter battery is charged many times	Replace the controller battery
		● The lithium battery is damaged	Replace lithium battery

※Match Frequency

(You must “install the Li-PO Battery” within 5 secs while matching the frequency , otherwise it will be time out for matching)

1. Press any “trim buttom” on the transmitter and the transmitter will “di~di~” continuously beep and the power indicator will blink .
2. Install the Li-PO battery and the “ di ~di~” beep will stop and the power indicator will slow down.
3. Push the left throttle joystick to top and pull down to bottom . The transmitter will beep **TWICE** “di~di~” and the power indicator stop blinking . This means the frequency is matched .
4. If you fail to install the battery within 5 secs and the transmitter stop beeping . You need to redo the matching work .

Other Notes

1. If the Li-PO battery get low (you add throttle but the plane won’t climb) , please land the plane immediately .
2. Unplug the battery after flight , turn off the transmistter . Take out the AA batteries from battery box when you don’t play the model for long time .
3. After times of charging , the AA battery will get low and the charging time should be longer .
4. If the power indicator of the transmitter blink and beep continuously , it means the AA battery will run out and you need to replace with new ones.
5. Charge the Li-PO battery half capacity when you want to put away the model .
6. **Use nipper plier to hold the shaft of the propeller and unscrew the propeller unclockwisely. Install the new propeller clockwisely .**
7. When the wing or any parts of the plane get damaged , first you need to reform the shape and then with a tape to fix it . (pls contact the closest distributor for spare parts)

FCC Information

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.

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.

Electrical and electronic equipment that are supplied with batteries (including internal batteries)

At the end of its serviceable life, this product should not be treated as household or general waste.It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.
nternal / Supplied Batteries.
This symbol on the battery indicates that the battery is to be collected separately.
This battery is designed for separate collection at an appropriate collection point.

Manufacture By Hangzhou ZT Model Company Limited.
Address: NO 6 Mingde Rd., Puyan, Binjing, Hangzhou, China.
www.ztmodel.com
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