



Nine Eagles®

Sky surfer

NE R/C 781B Four channel

Instruction Manual



NOTHING FLIES LIKE NINE EAGLES

781B101224

User Handbook

Congratulations on becoming a Nine Eagles® airplane pilot!

To ensure safe use, please read this manual thoroughly before flying the Airplane. If you have never flown an RC Airplane before, This airplane is your best choice!

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Introduction

Sky surfer is a pull-forward glider with EPO designed by Nine Eagle Company recently, which adopts streamline design, foldable paddle to reduce flying resistance. Upturning wingtip design can reduce induced drag and make it more stabilized. With 2.4G four-channel design, it is easy to control and suit to secondary and advanced pilot, and it is also a training airplane for beginners.

It is provided with dedicated Li-Poly battery and charger, only simple installation needed before flying.

FCC INFORMATION AND WARNING

Caution :

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

Compliance statement:

1: This device is verified to comply with Part 15 of the FCC Rules.

Operation 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.

2: 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.

Product Warning

Sky surfer is not a toy. Children under 14 years old are strictly forbidden from flying this airplane.

You must fly this airplane safely.

When flying or preparing the airplane for flight you should strictly adhere to the instructions. Ensure that yours and other people's hands, and face are kept away from the rotating parts.

Always use the airplane outdoor areas that are free of wind. Never fly close to or above others.

Always unplug the airplane battery before turning off the transmitter when the airplane is stopped.

LiPo Battery Safety Guidelines and warning

Airplane uses a lithium polymer battery. Always comply with operating instructions for the lithium polymer battery to avoid accidents such as combustion or explosion.

Always use a genuine Nine Eagles® charger and power adapter designed for this airplane.

Always unplug the charger and adapter from the electrical outlet after completion of each charge.

Never overcharge the battery, avoid use under direct sunlight or near fire. Ensure the battery is kept dry.

Never store or transport the battery with metal objects.

Never disassemble the battery.

Never use wet hands when in contact with the charger, battery or power adapter.

When you fly the airplane, keep distance from other electrical equipment, magnetic objects, wireless devices, etc, to avoid interference and accidents.

If you are unsure of how to charge the battery included with this product, please seek the advice of your local hobby shop.

Charging and discharging the batteries has the potential for fire, serious injury to persons and damage to property. The user of this battery agrees to accept responsibility for all such risks. Nine Eagles®, its affiliates, distributors, and retail partners can not control the use, application, charging or installation of this product and shall not be held responsible for any accident, injury to persons, or damage to property resulting from the use of this product. Read all safety guidelines, charging instructions, and battery disposal instructions before using batteries. Store battery packs out of the reach of children and pets. Children under the age of 18 must be supervised by a responsible adult. Children under 14 years of age should not be permitted to use this product under any circumstances. This product contains chemicals known to the State of California to cause Cancer, Birth Defects and other Reproductive Harm.

LI-PO BATTERY WARRANTY

This product is warranted against defects in original material and workmanship only. No term warranty is offered with this product. In no case shall Nine Eagles® liability be greater than the actual retail purchase price of this product.

SPECIFIC SAFETY GUIDELINES

- 1. Store in a fire proof container and charge on an open fire proof surface.**
- 2. Charge in a protected area devoid of combustibles. Never leave the charging process unattended.**

3. In the event of damage carefully remove the battery to a safe place to observe for at least half an hour. Damaged batteries are likely to explode. Never attempt to charge a damaged battery, no matter how slight the damage is. Dispose of damaged batteries as the instructions below.
4. Only use the Nine Eagles balanced charger designed for this battery. Never use chargers designed for Ni-CD batteries. If the batteries show any sign of swelling, remove them to a safe place outside as they could erupt into flames.
5. **MOST IMPORTANT** – Never plug in a battery and leave to charge overnight. Serious fires have resulted from this practice.
6. Do not attempt to make your own battery packs from individual cells.

If the battery pack involved in a crash or is otherwise damaged

1. Remove the pack from the model.
2. Inspect the pack for damage to the wiring or connections
3. If necessary, disassemble the pack and dispose of any damaged cells

Disposal of Li-PO batteries

1. Put the pack in a safe open area and connect a moderate resistance across the cell terminals until the cell is completely discharged.

CAUTION: The pack may get extremely hot during the discharge

2. Puncture the plastic envelope and immerse in salt water for several hours.
3. Place in your regular rubbish bin.

Note on Lithium Polymer Batteries



Lithium Polymer batteries are significantly more volatile than alkaline or NiCd/NiMH batteries used in RC applications. All manufacturer's instructions and warnings must be followed closely. Mishandling of LiPo batteries can result in fire. Always follow the manufacturer's instructions when disposing of Lithium Polymer batteries.

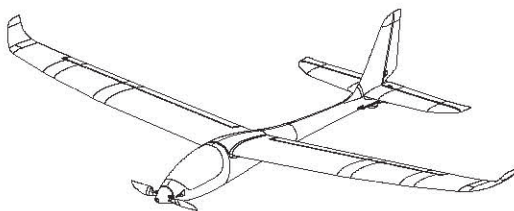
Instructions for Disposal of WEEE by Users in the European Union



This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product

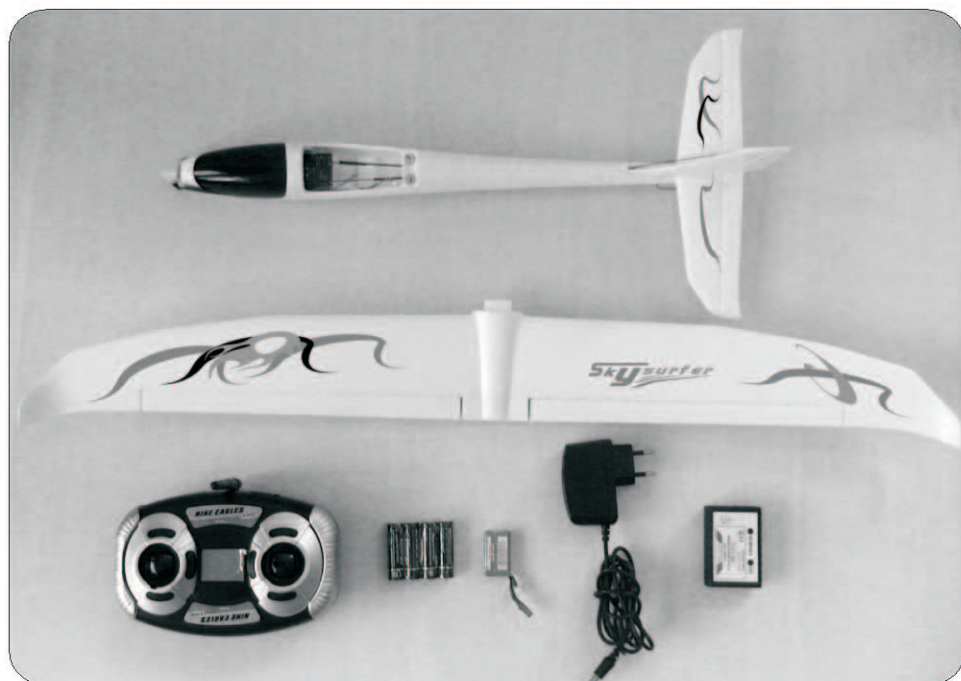
Specification

Model No:	NE R/C 781B
Wing span:	780mm
Overall Length:	520m
Flying weight:	105-110g
Power System:	N60
Battery:	7.4V,250mAh Li-po



Product List

Description	QTY
Sky surfer	1
Transmitter	1
Li- po Battery	1
Charger	1
AA Battery	4



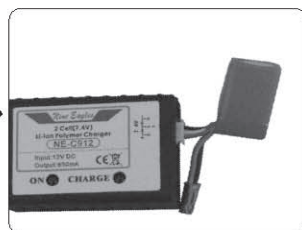
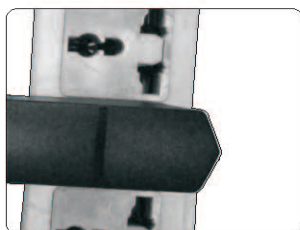
Battery Mounting, Charging and Maintenance

1. Battery Recharging

The use Nine Eagles Li-PO battery to fly your recommended. This Li-PO battery will deliver the best flight performance and flight time, as it is designed for airplane.

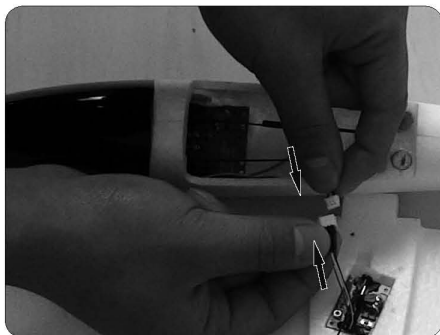
Please read the label on the battery, then recharge as following:

- 1) Insert the adapter in the Nine Eagles Balanced Charger (step1).
- 2) Plug the adapter into the power outlet (step2).
- 3) Insert the 3 lead connector on the Li-PO Battery into the balanced Charger (step3).
- 4) The red light indicates power on. When the green light, it is charging. When the green off it on permanently, charging is complete and the battery should be removed from the charger at this point.
- 5) In order to charge safely and fast, please use only Nine Eagles.
- 6) Please observe the battery when charging.
- 7) Please keep the battery away from sources of heat at all times. Do not cover the charger or battery. Always keep them ventilated.
- 8) Ensure charging is a fire proof location.
- 9) Always unplug the charger and power adaptor from the electrical outlet after completion of each charge.

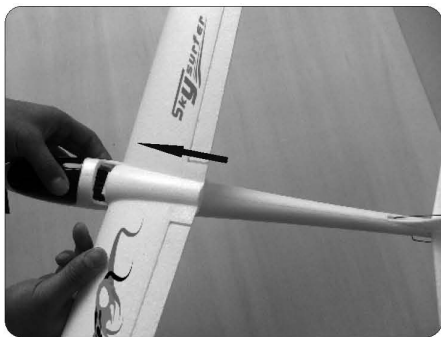


Instruction for assembling the airplane

1. Take out aerofoil, and then connect aileron servo wire to the wire of receiver. And please pay attention to the connector's direction and servo wire's color and make sure they are connected to the right position.



2. Insert the bulged front end of wing into fuselage firmly.



Note: ① In order to tear it down easily, it is fixed with magnet.

② Check whether the magnet is conglutinated to fuselage or aerofoil before tearing aerofoil down , and conglutinate them if not fixed well.

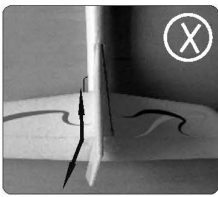
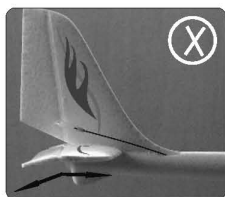
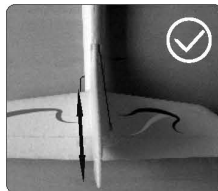
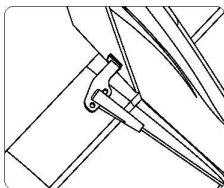
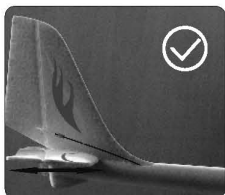
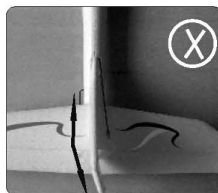
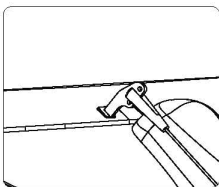
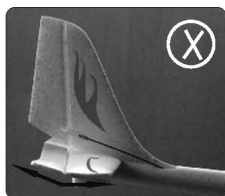
③ Make sure it will not influence other servos before firmly fix the aerofoil.

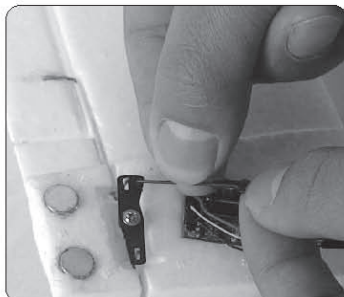
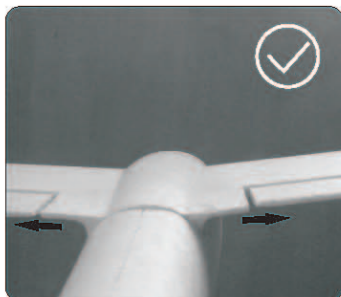
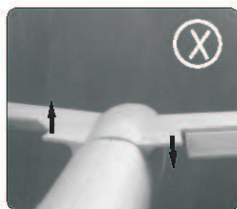
Preparation before fly

1. Take off the battery box cover of remote controller.
2. Install 4 pieces of AA batteries.
3. Turn on the power, check if LCD screen has readings.
4. Take out cabin cover, make the two plugs connected and put battery into capsule, then close cabin with cover.

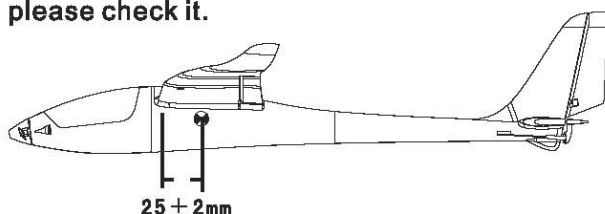


5. Install battery, check whether aileron control surface parallel to aerofoil, horizontal tail and horizontal control surface, whether vertical tail parallel to vertical control surface. If not, please adjust corresponding adjustable connectors by changing the length of wire. (Note: generally, it is well adjusted before leaving factory, no more adjustment.) See the following photos.



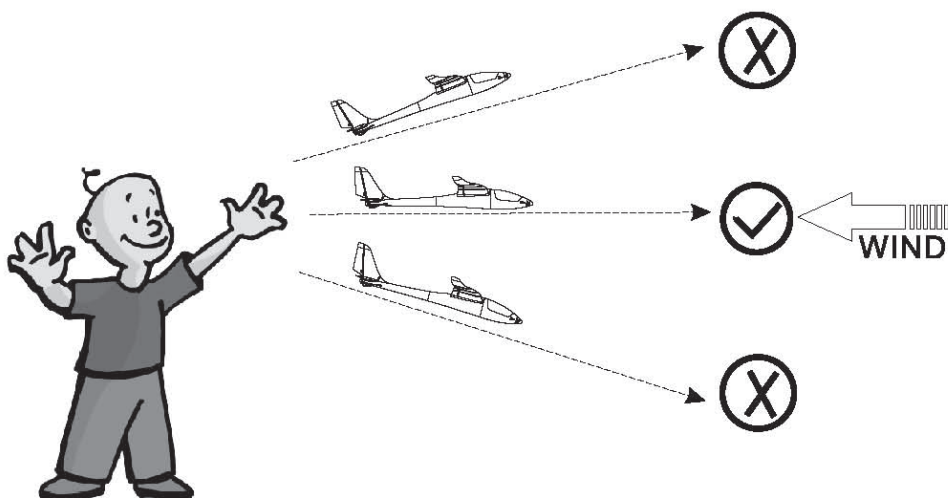


6. The center of gravity is at $25 \pm 2\text{mm}$ around the front end of wing, please check it.



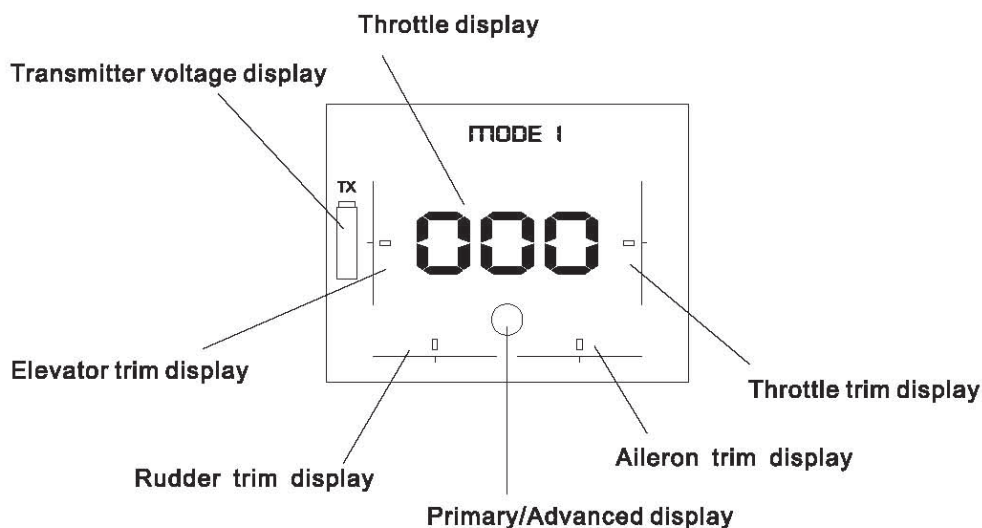
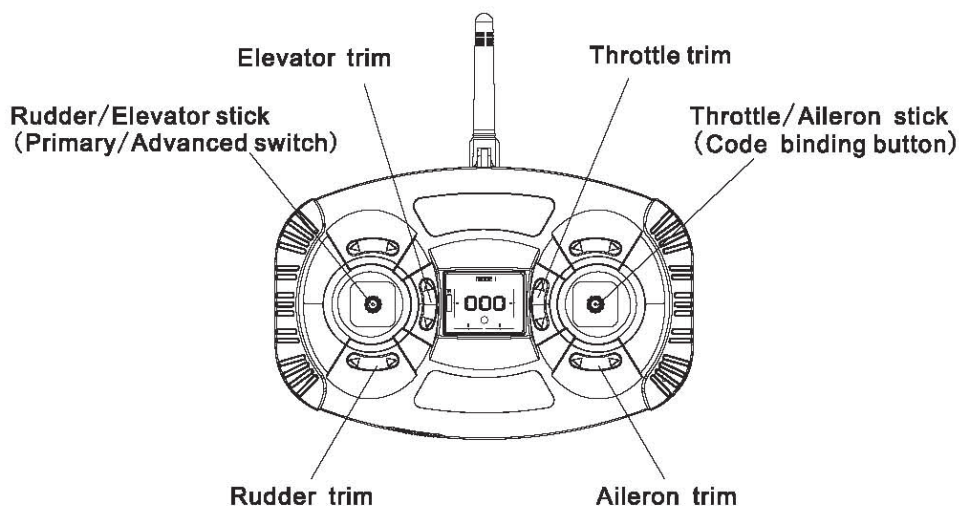
Make sure all trim buttons are in the middle position, and the throttle stick is at its lowest position before fly.

Make sure airplane is in a horizontal path against wind before casting

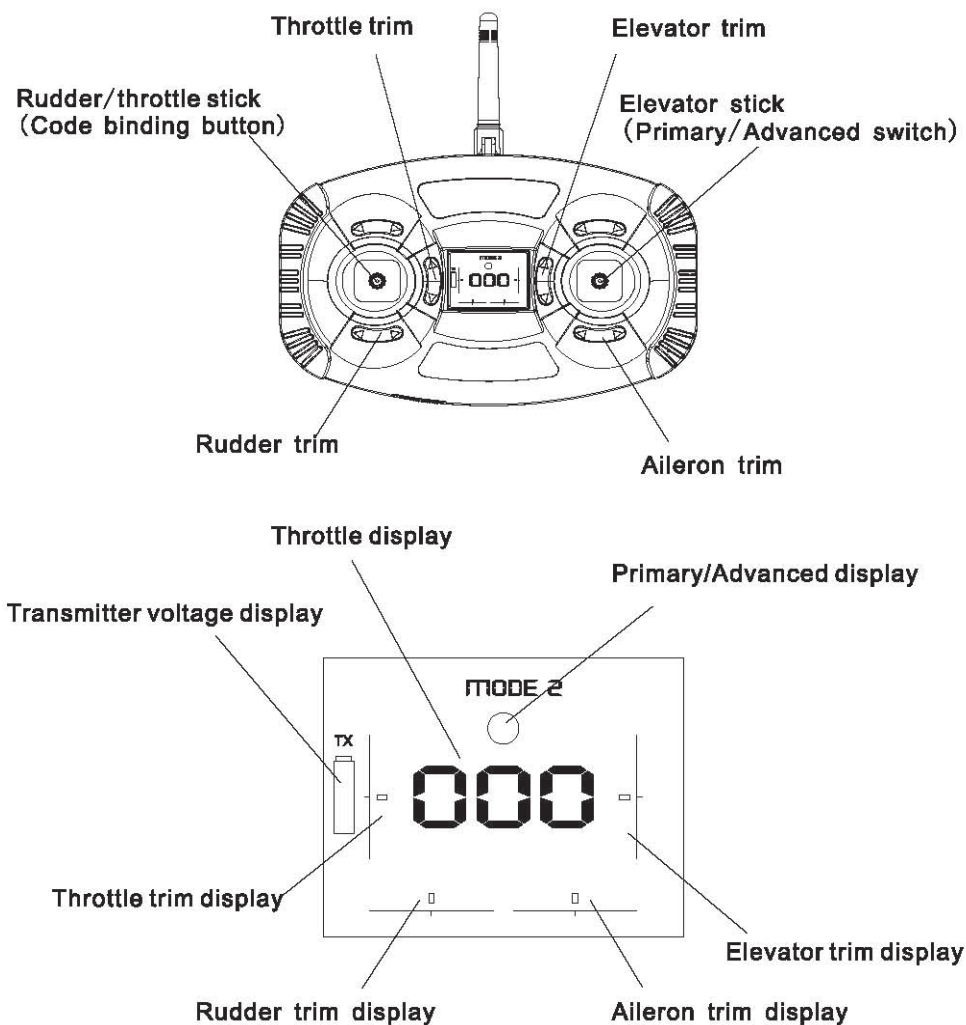


Transmitter Control Identification

Model



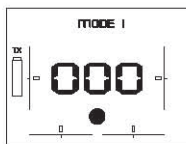
Mode2



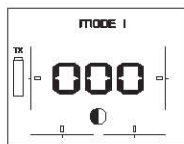
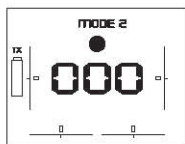
■ Set up the Primary and Advanced Control Switch

We have set up the primary and advanced control model to meet the different fan requirement.

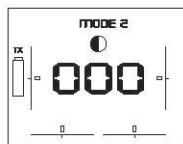
1. Turn on the transmitter ,check the present model of transmitter .if the mode is advanced the illustration as left, if the primary mode the illustration as right .



Advanced mode



Primary mode



2. Press the button to switch the mode of the primary and advanced.

Note: This throttle curve in the low rate mode is also different than it is in the high rate mode. This makes it much smoother and easier to control the throttle when in the low rate mode.

The advanced mode is suitable for the experienced pilot. We suggest you choose the primary mode when you first flight the helicopter.

■ Transmitter Mode Switch Function

In order to meet the different customer requirement, we use the transmitter with the mode switch function, it can switch between the left and right hand.

Please go ahead the following process to switch the mode from Mode2 to Mode1 :

1. Turn off the transmitter.



PICTURE 1



PICTURE 2



PICTURE 3

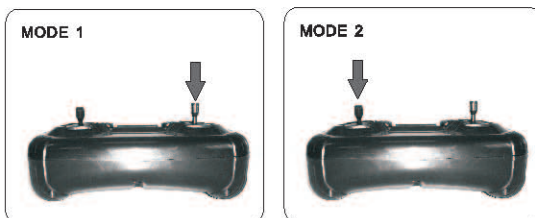
2. Turn off the fixed nut on the antenna and clip.(PICTURE 1)
3. Reverse the antenna 90 degree , circumrotate the antenna shaft 180 degree, then make the antenna to cling another side of transmitter.(PICTURE 2)

4. Re-install the nut and the fix clip on the antenna.(PICTURE 3)
5. Turn off the transmitter and to be the mode1 operation check.

■ **Helicopter and transmitter binding**

We have bind the helicopter and transmitter before export the cargos from factory. If you need re-bind the code ,please take the following step.

1. Press the binding button.



2. Proper operation of the transmitter by switching the power switch on. The LCD glitter while the transmitter beeps.
3. Be sure to slide the lipo battery into helicopter while binding end.
4. After binding, LCD of transmitter stop glitter enter the normal operation.

Note: You can't bind the transmitter and receiver until the throttle set up on the zero graduation and the green light solid green. If the LED light flashes, please set up the throttle to zero graduation then the Helicopter can normally bind.

Throttle trimming

MODE 1

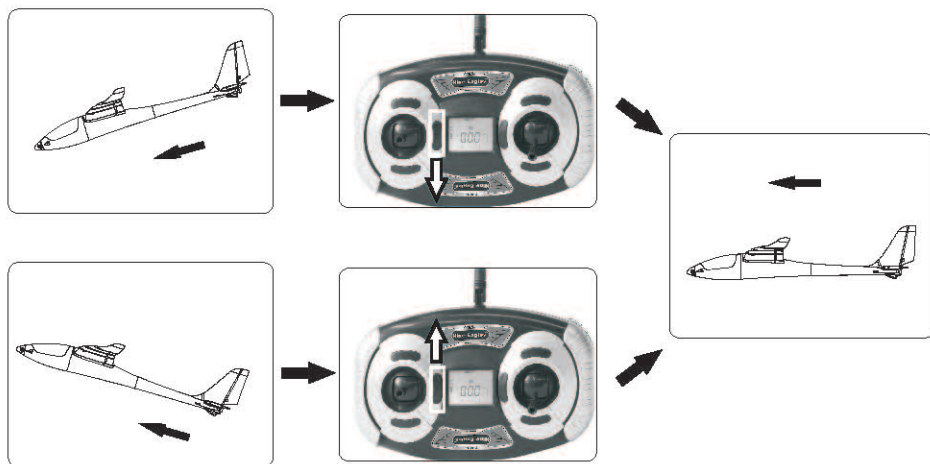
If the propeller runs when no throttle stick input is given, an adjustment for the throttle trim system is required. And push the propeller throttle stick downwards until the propeller stops.



Elevator trimming

MODE 1

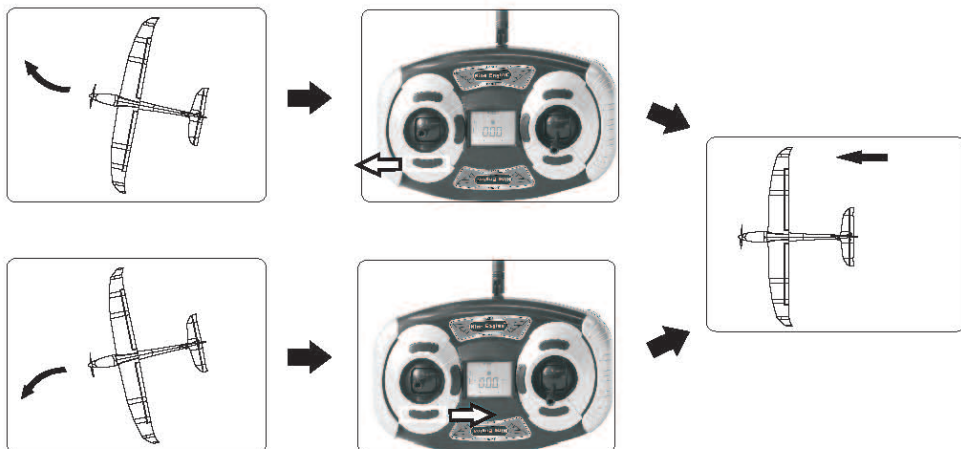
When the airplane tilts upwards and downwards without operation of elevator sticks during fly, an adjustment of rudder is required. If the airplane tilts downwards, push the trim button downwards until it doesn't tilt. If the airplane tilts upwards, push the trim button upwards until it doesn't tilt.



Direction trimming

MODE 1

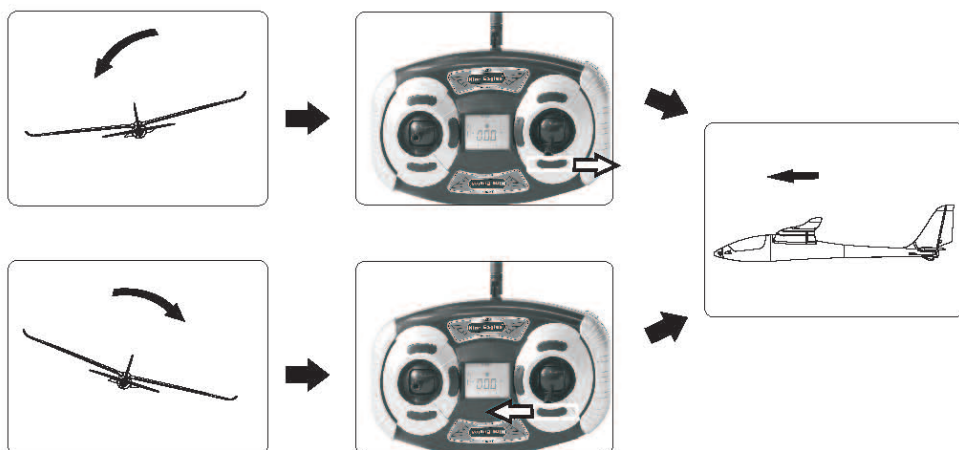
If the airplane makes left or right hover , even such order is not given in its flight, the following adjustment of direction is required. If the airplane hovers left, push the direction trim button to the right until it flies forwards. If the airplane hovers right, push the direction trim button to the left until it flies forwards.



Aileron trimming

MODE 1

If the airplane left or right incline , even such order is not given in its flight, the following adjustment of aileron is required. If the airplane incline right, push the aileron trim, to the left until it flies forwards right . If the airplane incline left, push the aileron trim button to the right until it flies forwards.



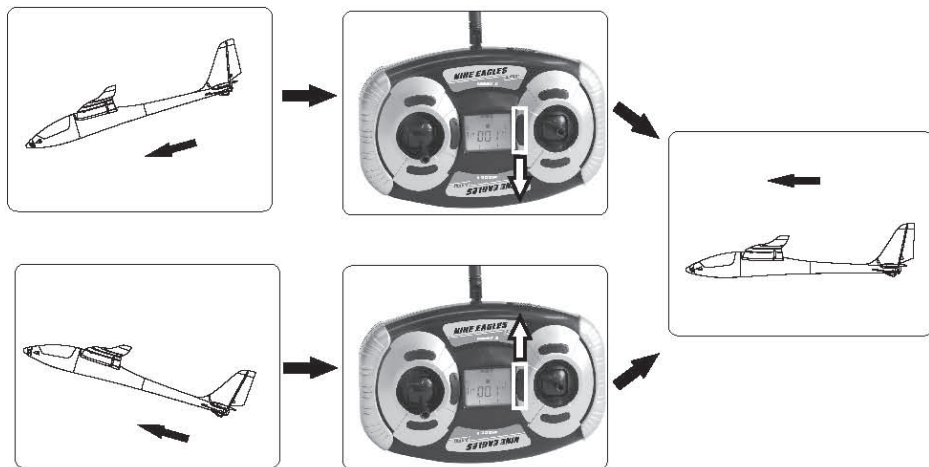
If the propeller runs when no throttle stick input is given, an adjustment for the throttle trim system is required. And push the propeller throttle stick downwards until the propeller stops.



Elevator trimming

MODE 2

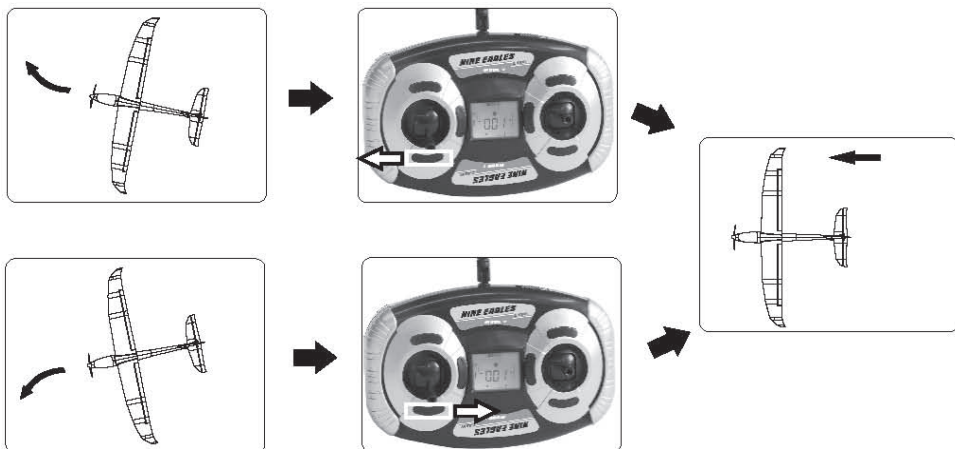
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Direction trimming

MODE 2

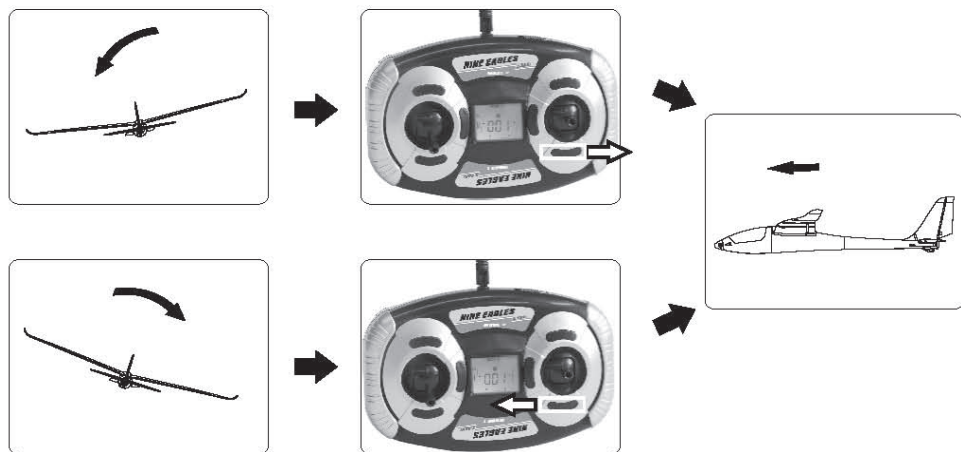
If the airplane makes left or right hover , even such order is not given in its flight, the following adjustment of direction is required. If the airplane hovers left, push the direction trim button to the right until it flies forwards. If the airplane hovers right, push the direction trim button to the left until it flies forwards.



Aileron trimming

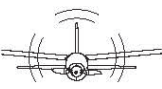



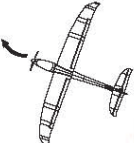



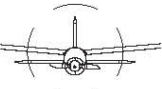







MODE 2

If the airplane left or right incline , even such order is not given in its flight, the following adjustment of aileron is required. If the airplane incline right, push the aileron trim, to the left until it flies forwards right . If the airplane incine left, push the aileron trim button to the right until it flies forwards.

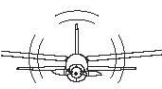



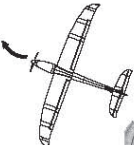



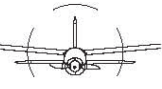



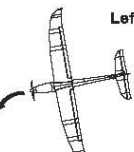





Operation Instruction

Mode 1

Throttle	Elevator	Rudder	Aileron
 <p>Acceleration</p> 	 <p>Up</p> 	<p>Right movement</p>  	 
 <p>Decelerate</p> 	 <p>Down</p> 	<p>Left movement</p>  	 

Mode 2

Throttle	Elevator	Rudder	Aileron
 <p>Acceleration</p> 	 <p>Up</p> 	<p>Right movement</p>  	 
 <p>Decelerate</p> 	 <p>Down</p> 	<p>Left movement</p>  	 

Flying field

The flying field selected must be suitable for flying. No obstacles are allowed when flying the plane in the room. The plane must be flown in open area. Please keep the airplane away from trees, electrical cables and other obstacles. Flying over the people is prohibited.

Fly practice

Turn on the transmitter in accordance with the manual. Turn on the power of the airplane. After the airplane is adjusted, check the servo before fly.

1. Check the wind direction before fly. The airplane is supposed to take off or land towards the wind.
2. Push the throttle stick and throw the airplane horizontally.
3. Adjust the throttle and direction stick to fly the airplane stably. The beginner is not supposed to fly the airplane either too high or too far. If the airplane doesn't fly stably, an adjustment for the airplane is required before flying it
4. The beginner shall use the controllers gently. Suddenly flying the airplane up or down is not allowed.
5. The airplane shall be placed on the flat ground and in the proper direction before taking off from ground. Accelerate the airplane in a straight line by increasing the throttle stick input.
6. In order to learn the flying skill better, it is suggested that the beginner shall use the small rudder to manipulate the airplane. The players can turn to big rudder when they become more skilled after enough training.

Notify Items

- 1). Please stop flying when you feel the battery is running out.
- 2). Always remove the airplane battery immediately and then turn off the transmitter when you finish flying.
- 3). when the airplane has crash onto some objection ,please loose the throttle ASAP to avoid any damage (please check the spare parts ASAP when the crash happened. You can purchase the spare parts from the Nine eagles local distributor when you change the broken spare parts).
- 4). If you do not use the airplane for a long time, please keep 50% power of the LiPO Battery, and take the batteries out of the transmitter.

Miscellaneous

Repairs and Maintenance

A wide range of genuine Nine Eagles® parts and accessories are available from your local Nine Eagles supplier. Please review the enclosed Parts List Brochure to see what is available.

Clubs and Associations

Nine Eagles® supports the model flying community around the world. We encourage you to meet new friends and learn to fly through your local club or association. Contact them through your local Hobby Retailer.

Troubleshooting

For the latest troubleshooting advice, please contact your local hobby store

Feedback

If you have any suggestions for modifications or future designs, we would like to hear from you. Please feel free to contact us at sales@nineeagle.com

NOTHING FLIES LIKE NINE EAGLES



SHANGHAI NINE EAGLES ELECTRONIC TECHNOLOGY CO.,LTD

Factory: MaLu industrial zone. Jia Ding district.
shanghai. 201801 PR. China

Tel: 0086-21-52919366

Fax: 0086-21-52919361

http: //www.nineeagle.com

E-mail: sales@nineeagle.com