



## SWIFT-ONE QIDI-550 Vertical Flight RTF RC Plane Instruction Manual

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SKY CHALLENGER  
**SWIFT-ONE**

Bring you a lot of fun during the flying operation  
QIDI-550 Vertical Flight RTF RC Plane  
Instruction Manual



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## SPECIFICATIONS

Wingspan———50cm  
Fuselage length——d2cm  
Takeoff weight———140qg  
Motor ———2004KV2600  
Electric reguiation ———12-154  
Steering gear ——3.7Q x3  
Remote contrmol———5 channels  
Flight control system———46 axis gyroscope  
Propeller size———4 x Jem 2-blade propeller)  
Lithiurn botteny———7.4V 400mAH  
Continuous flight time———8-10minutes

### 2.4Ghz RC

Dual Veetical Modes – 3D Aerobatic Frying



## SAFETY PRECAUTIONS

This radio control model is not a toy.

- First-time builders should seek the advice of experienced modellers before commencing assembly and if they do not fully understand any part of the construction.
- Assemble this kit only in places out of children's reach!
- Take enough safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.



## WARNING

Choking hazard!

This product contains small parts. NOT suitable for children under 3 years. Contains electrical components and

should be kept dry at all times. Regularly check the battery charger wires, plugs and shell and other components for damage. DO NOT use if any part is damaged.

## Charging and battery cautions

1. Model uses a set of 7.4V rechargeable batteries.
2. Please pay attention to correct polarity when replace batteries.
3. Charge battery should be under adult supervision.
4. DO NOT use a mix of old and new or different types of battery.
5. Please remove the battery when flying finished.
6. DO NOT short circuit.
7. DO NOT attempt to charge non rechargeable batteries.
8. Remove batteries from the model when charging.
9. DO NOT put batteries into a fire or into water.
10. The rated input voltage battery charger MUST be suitable for your home power voltage.
11. During charging, it is quite normal for the charger and batteries to heat up.

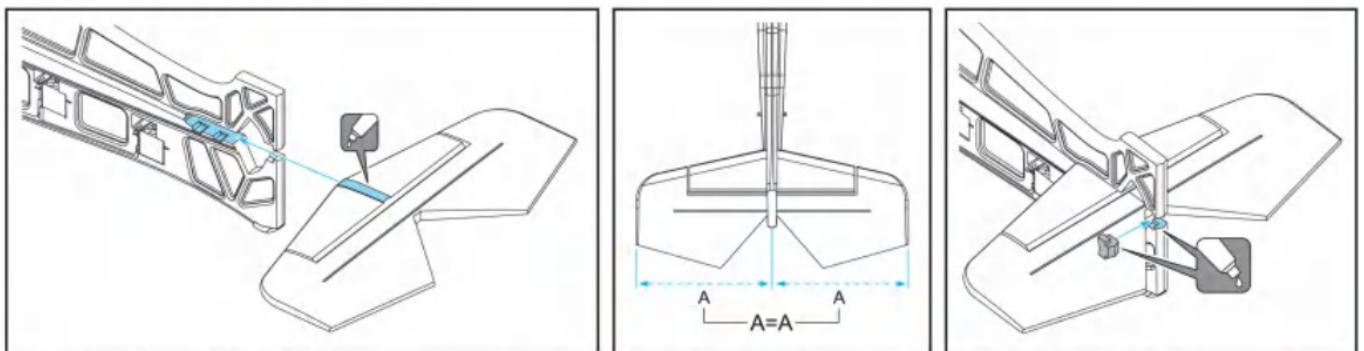
## Cautions

1. Detachable small parts should be stored safely and out of reach of children.
2. If interference is experienced, turn the model off and try it again in a different area.
3. Remote control will not function correctly if the batteries are low. Please replace the batteries.
4. Please discard old/used batteries in a safe manner. Consider your environment!
5. Please store the remote control in cool, dry place.
6. DO NOT expose to fire or high temperatures, moist storage.
7. Should the battery get wet, wipe immediately with a soft dry cloth. If transformed. please stop usage.

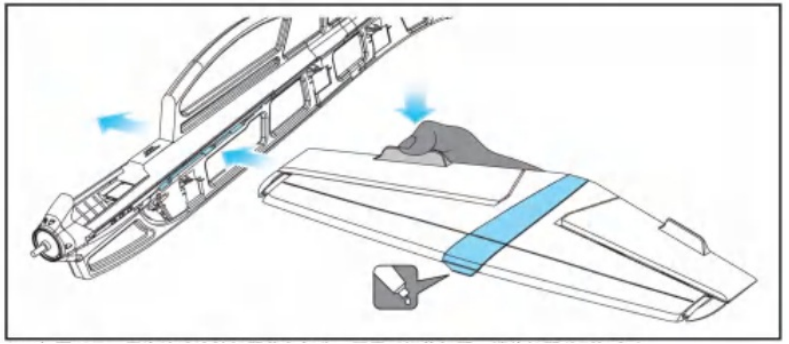
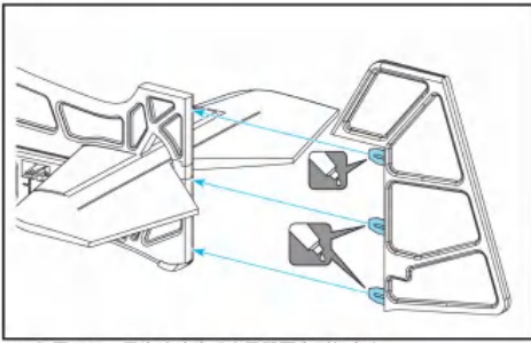


**Caution:** Specifications are subject to change without notice

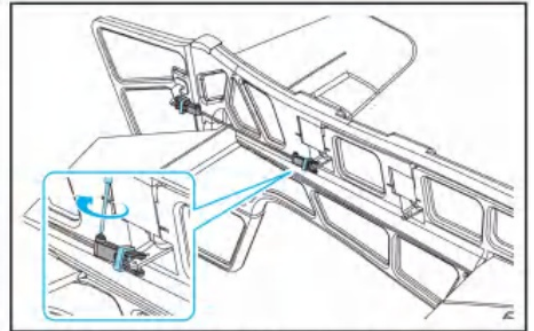
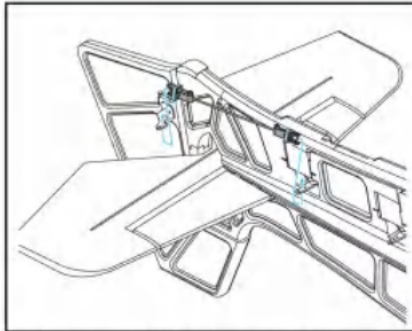
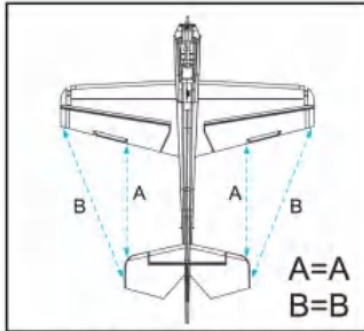
## ASSEMBLY INSTRUCTIONS



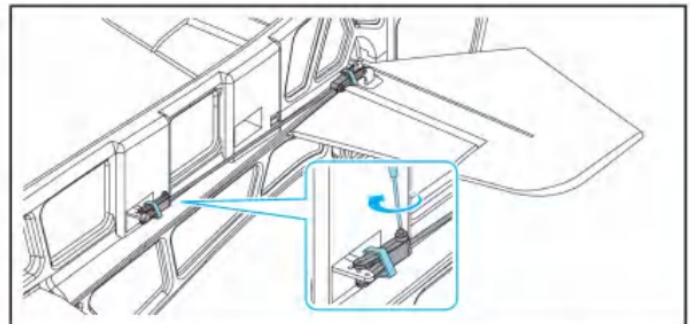
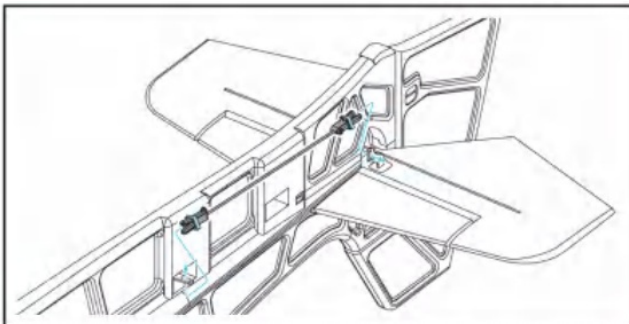
1. Insert and glue the horizontal tail wing tightly on the body as shown in figure.
2. Check if the horizontal tail wing is symmetrical.
3. Glue a foam on the end of the plane body.



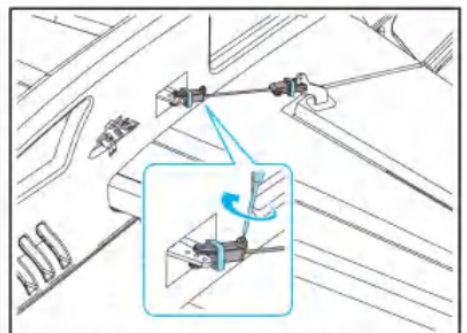
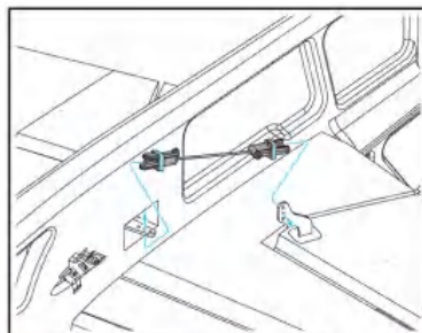
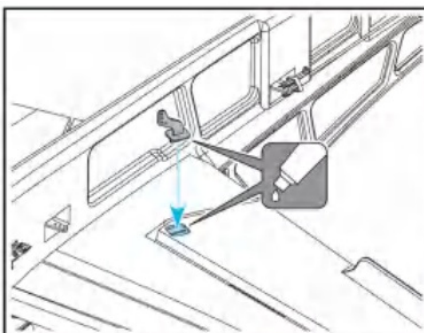
4. Insert and glue the vertical tail wing on the plane body tightly.
5. As shown in the figure, apply foam glue to the blue part of the wing, and then pinch one end of the wing to install the wing into the fuselage.



6. Check all the wings if are fixed symmetrically and vertically.
7. As shown in the figure, first put the rubber ring on both sides of the push rod, and then instal the push rod on the rudder angle on the vertical tad.
8. Complete as shown in the figure (use a cross screwdriver to adjust the screws on the push rod to make the vertical tail horizontal, and then tighten the screws).



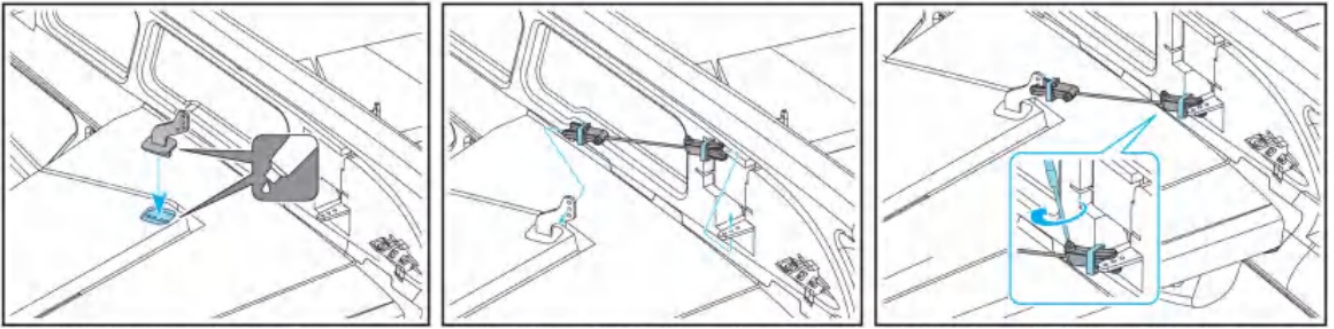
9. As shown in the figure, first put the rubber ring on both sides of the push rod, and then install the push rod on the rudder angle on the fuselage and the horizontal tail.
10. Complete as shown in the figure (use a cross screwdriver to adjust the screws on the push rod to level the horizontal tail. and then tighten the screws).



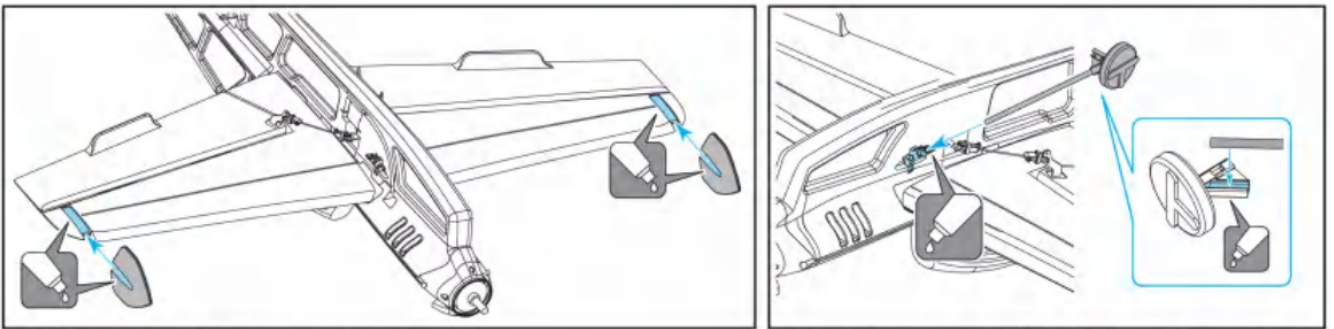
11. As shown in the figure, fix the rudder angle on the wing with foam glue.
12. As shown in the figure, first put the rubber ring on both sides of the push RA. and then install the push rod on the rudder angle on the fuselage and wing.



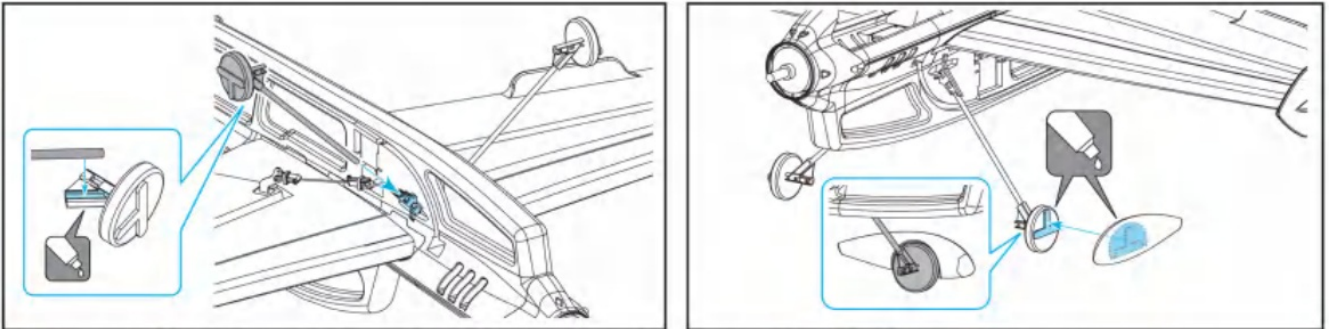
13. Complete as shown in the figure (use a screwdriver to adjust the screws on the push rod to make the wing horizontal, and then tighten the screws).



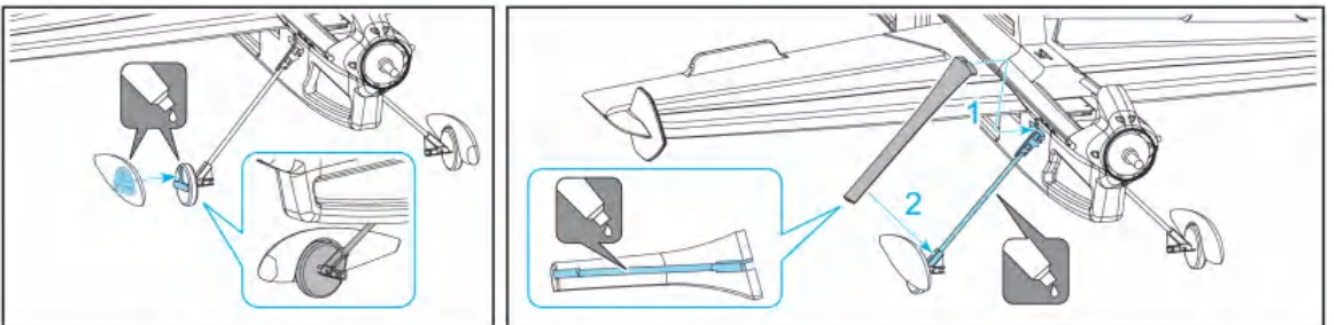
14. As shown in the figure, fix the rudder angle to the wing with foam glue.
15. As shown in the figure, first put the rubber ring on both sides of the push rod, and then install the push rod on the rudder angle on the fuselage and wing.
16. Complete as shown in the figure (use a screwdriver to adjust the screws on the push rod to make the wing horizontal, and then tighten the screws).



17. Fix and glue 2pcs spoilers on the below of main wing as shown in figure.
18. One side landing skid installation: Fix and glue the tyre with carbon rod, then insert and glue another side of carbon rod into the support mounts on the body.

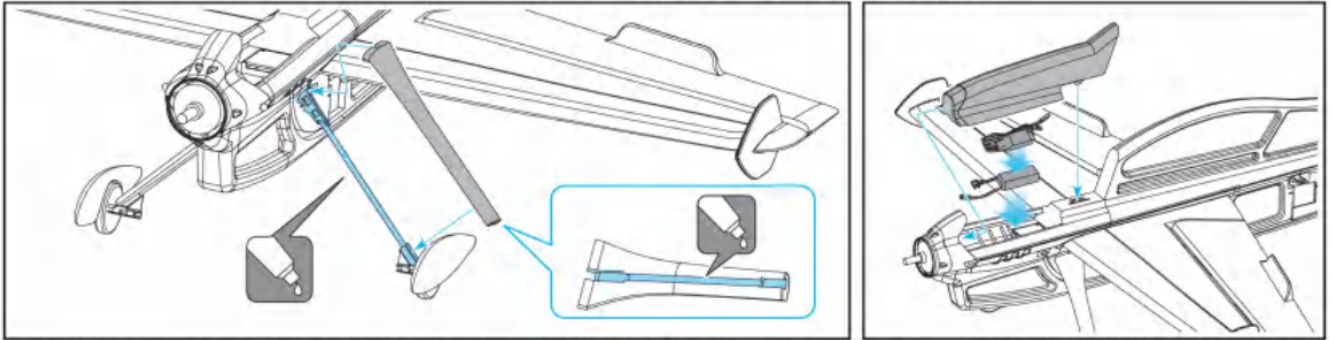


19. Another side landing skid installation: Fix and glue the tyre with carbon rod, then insert and glue another side of carbon rod into the support mounts on the body.
20. Fix and glue left tyre foam mask on the tyre as shown in figure.



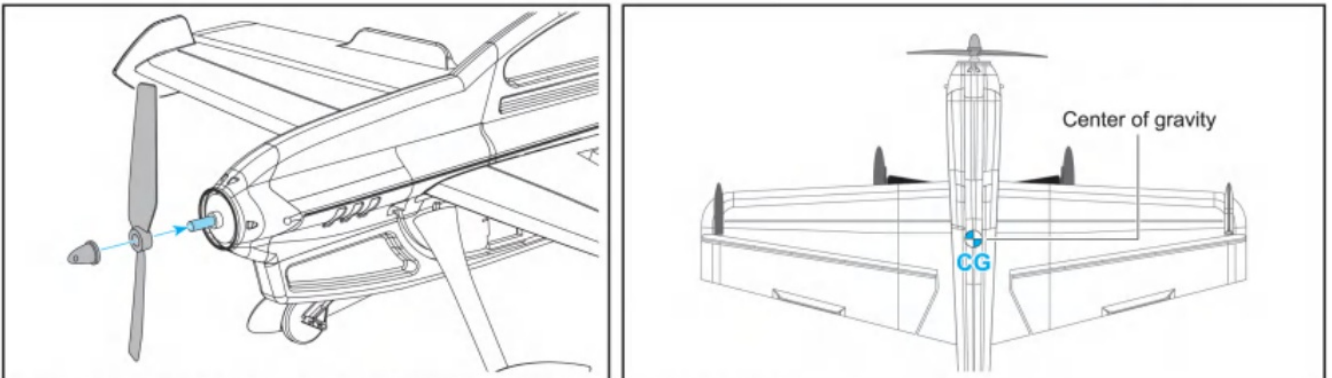
21. Fix and glue right tyre foam mask on the tyre as shown in figure.
22. Put on a foam coat on the right landing skid: seal the landing skid with glue as shown in figure, stick foam decorating parts with landing skid. (Stick the thick end of foam decorating parts firstly. Please well note the

open end direction of foam decorating parts.)



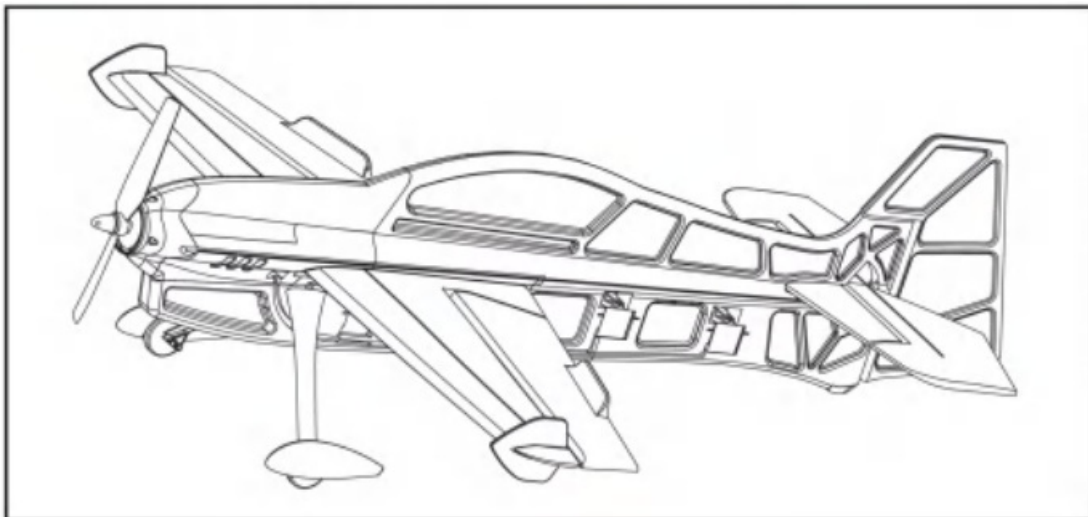
23. Put on a foam coat on the left landing skid: seal the landing skid with glue as shown in figure stick foam decorating parts with landing skid. (Stick the thick end of foam decorating parts firstly. Please well note the open end direction of foam decorating parts.)

24. Put lipo battery and ESC into the airpaine and cover it.



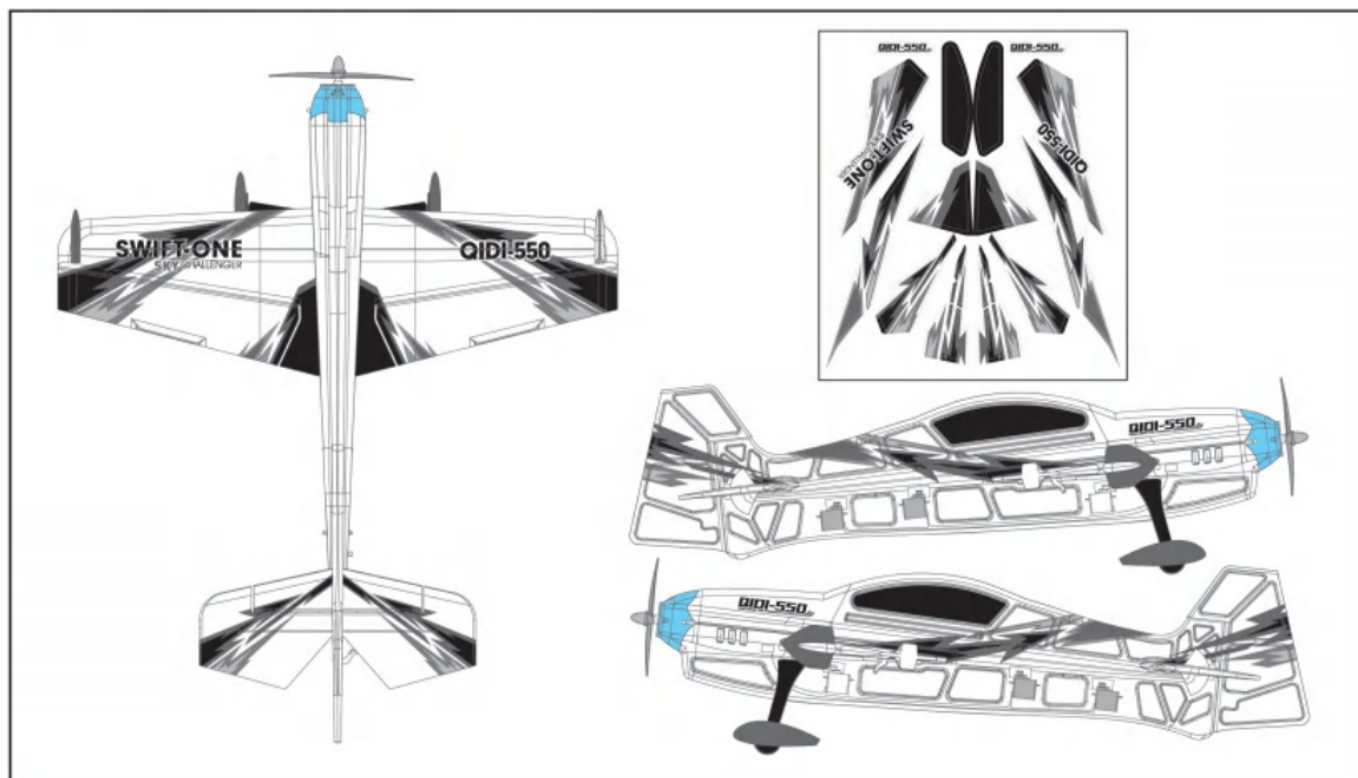
25. As shown in the figure, fix the propeller on the motor and lock the propeller clockwise with the propeller cover.

26. Airplane center of grayly hint map.

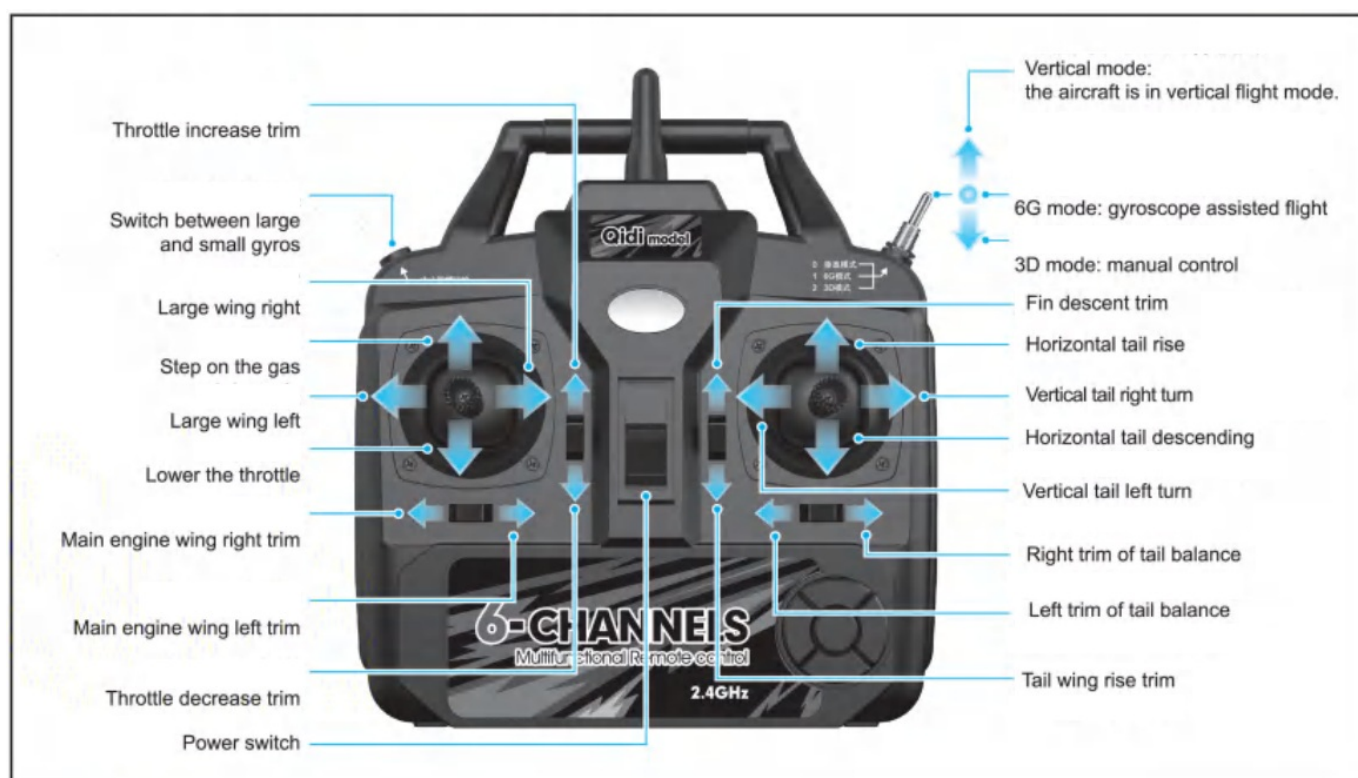


27. Installation Complete.

## AIRPLANE PASTER HINT MAP

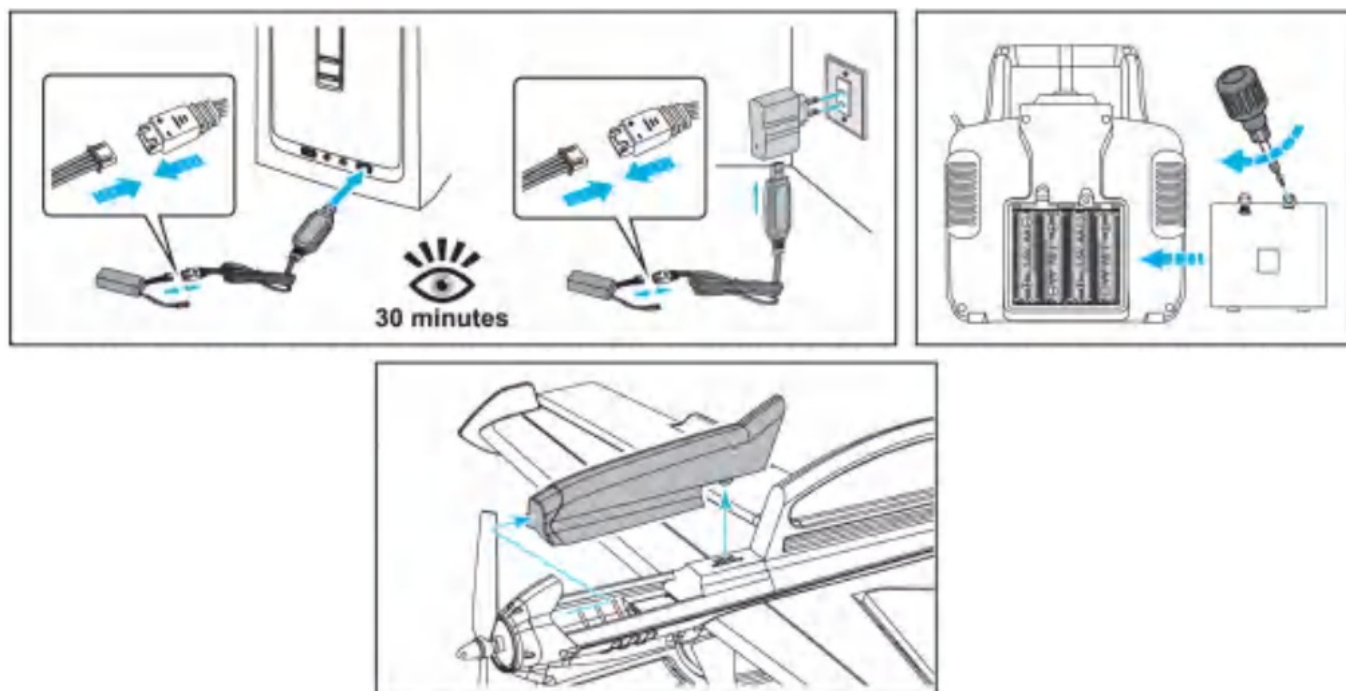


## TRANSMITTER FUNCTION INTRODUCTION



## BATTERY CHARGING AND ASSEMBLY

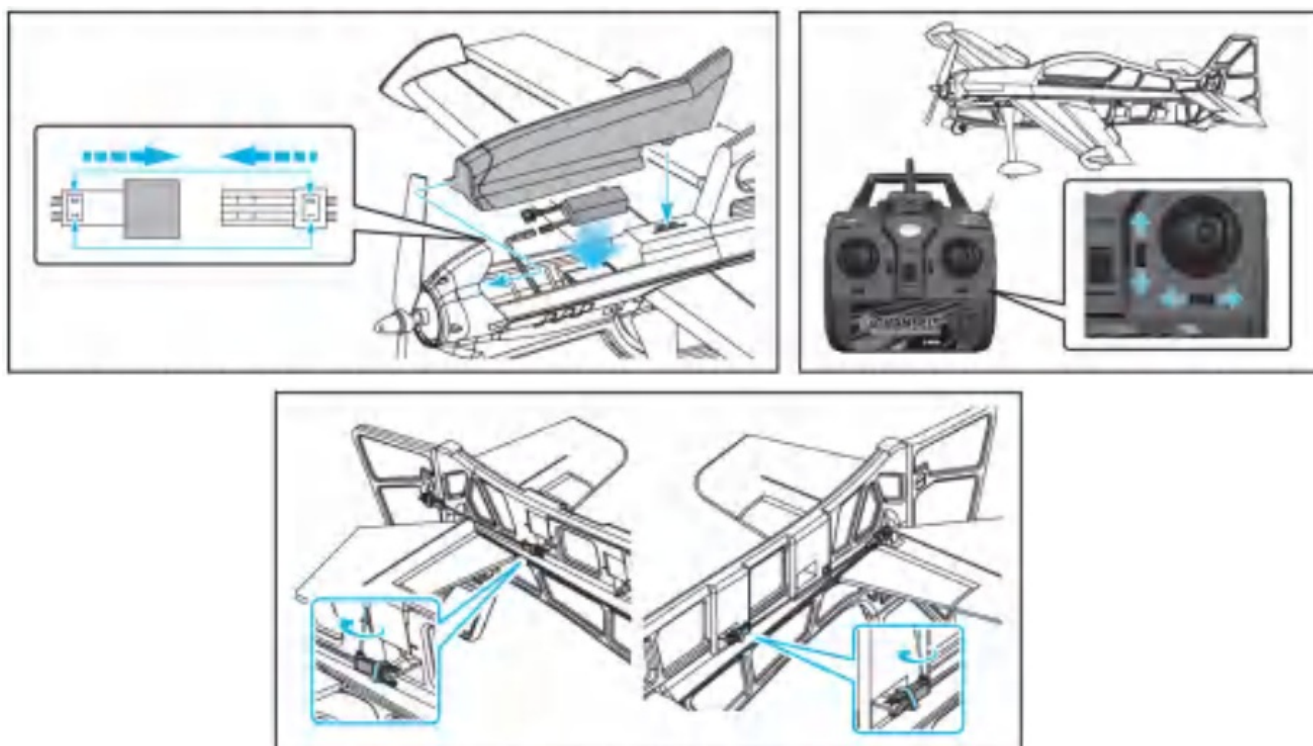




1. Insert the USB cable into the interface of a computer or the USB interface of a mobile phone charger as shown in the figure. and the red USB indicator light will be on. Then connect the USB cable with the battery pack as shown in the figure, and the green USB indicator light will flash slowly, indicating that it is charging. Approximately 30 minutes later, the green indicator light will be on and charging is completed.

(**Note:** The mobile phone charger is optional).

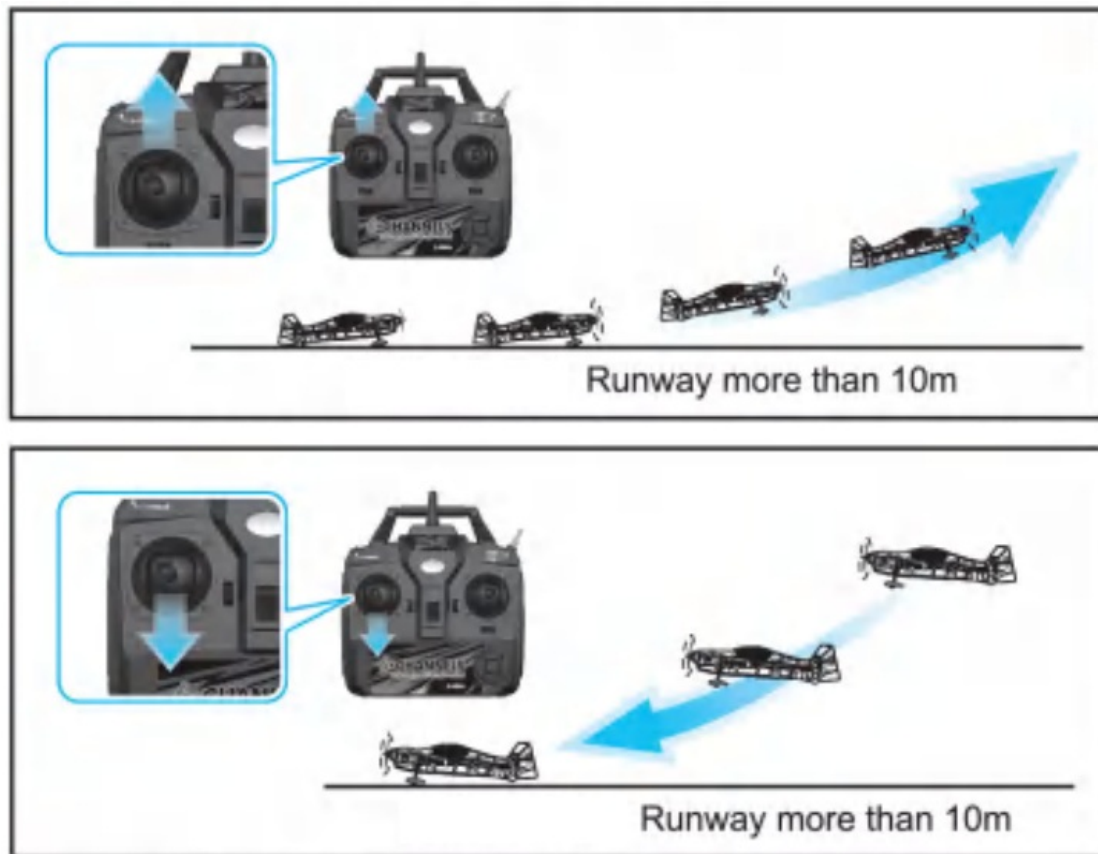
2. Put 4 X'AA' alkaline batteries into the transrr4ter and turn on the power switch.
3. Open the canopy cover on the fuselage.
4. Put the battery pack into the canopy, then put through the socket of battery pack with power plug of airplane, replace the canopy cover.



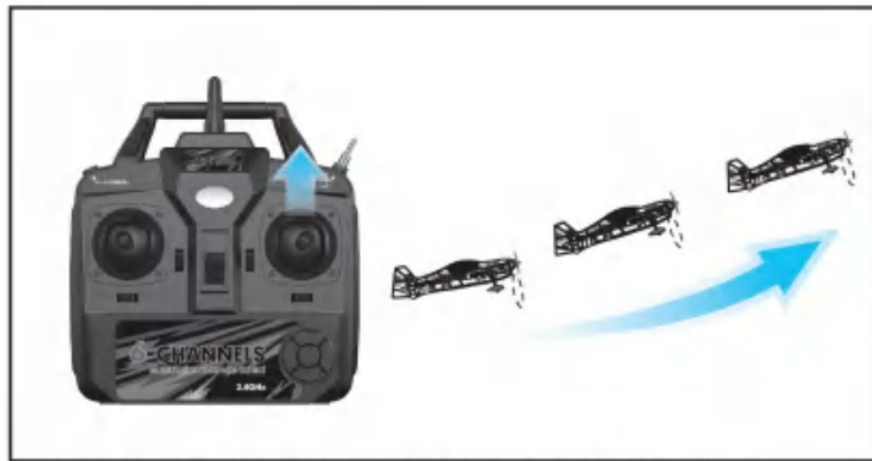
5. While adjusting the control sticks of the transmitter and making them in the middle, both the rudder & the elevator should be in the same horizontal plane, and their empennage as well.
6. If they are not in the same place, adjust the length of the Interlock steel wire and make It in one level.



## OPERATION INTRODUCTION



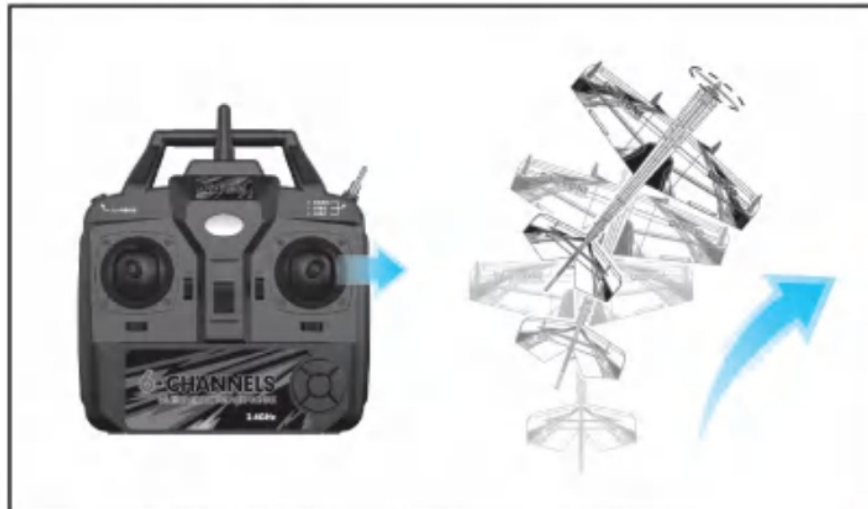
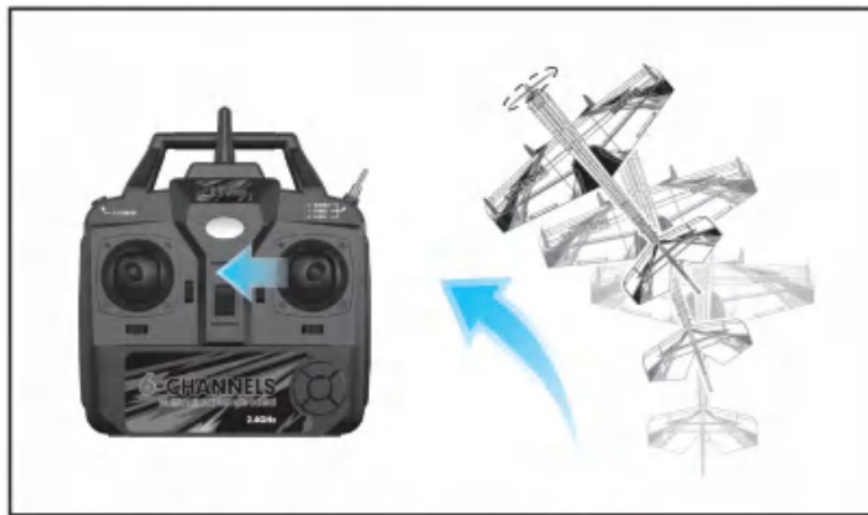
1. Takeoff: put the aircraft on a flat runway, push the left joystick of the remote control upward (increase the accelerator), the propeller rotates faster, and the aircraft glides for a distance before rising.
2. Landing: pull down the left joystick of the remote control (lower the throttle), the propeller rotation speed will be reduced, and the aircraft will fall naturally.



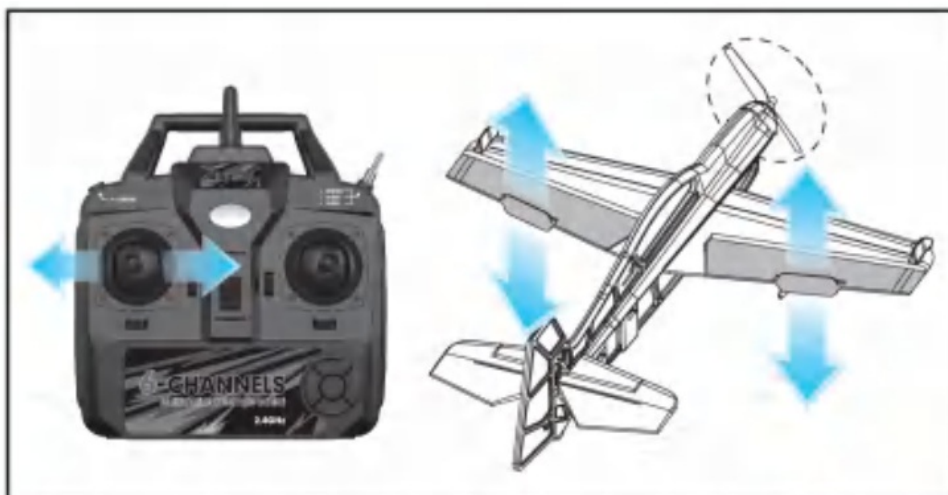
3. Ascending: Push the right joystick of the remote control upward, and the horizontal tail rudder faces upward, then the aircraft will ascend.
4. Descending: pull down the right joystick of the remote control, and the horizontal tail control surface is downward, so that the aircraft descends.



5. Left tilt. When the left joystick of the remote control is moved to the left, the aircraft will tilt to the left accordingly.
6. Right tilt: When the left joystick of the remote control is moved to the right, the aircraft will tilt to the right.



7. Left turn: When the right joystick of the remote control is moved to the left, the aircraft will turn left accordingly.
8. Right turn: When the right joystick of the remote control is moved from right to left, the aircraft will turn right accordingly.



9. Aileron. Push the left joystick of the remote control to the left/right to control the lifting of the aileron to increase the lift of the aircraft.

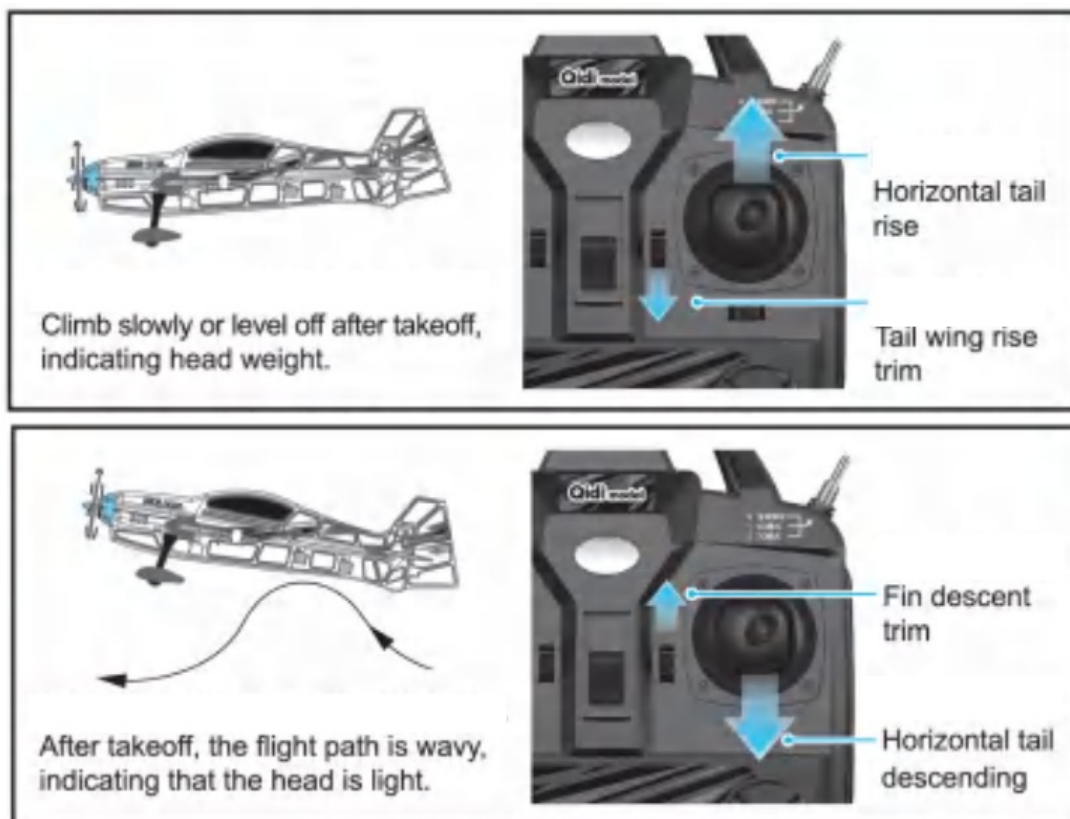


#### **SAFETY PRECAUTIONS:**

Do not touch the rolling airscrew to avoid hurt.

#### **Flying adjustment**





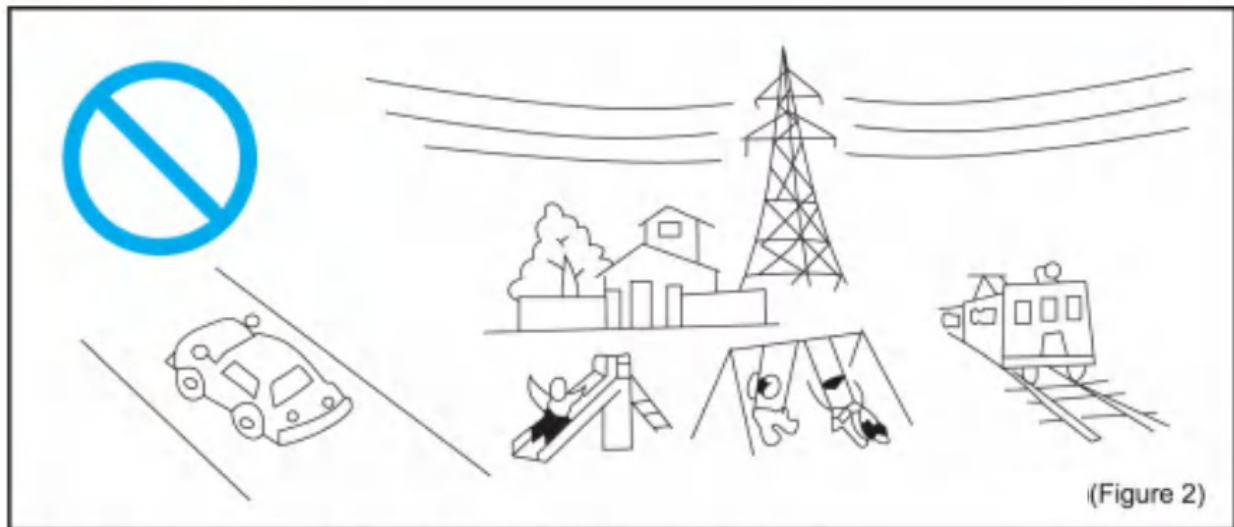
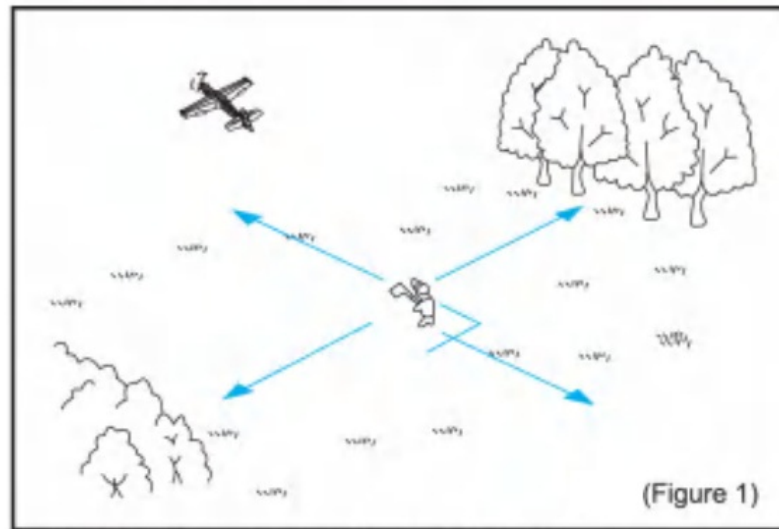
1. First push down the right joystick for fine adjustment (tail lift fine adjustment). If the head weight cannot be corrected, push the right joystick up a little (horizontal tail lift) to overcome the head weight.
2. First, push the right joystick upward for fine adjustment (tail down fine adjustment). If the head weight cannot be corrected, push the right joystick downward a little (horizontal tail down) to overcome the head weight.

## ADJUSTMENT FOR THE LEFT OR RIGHT DEFLECTION



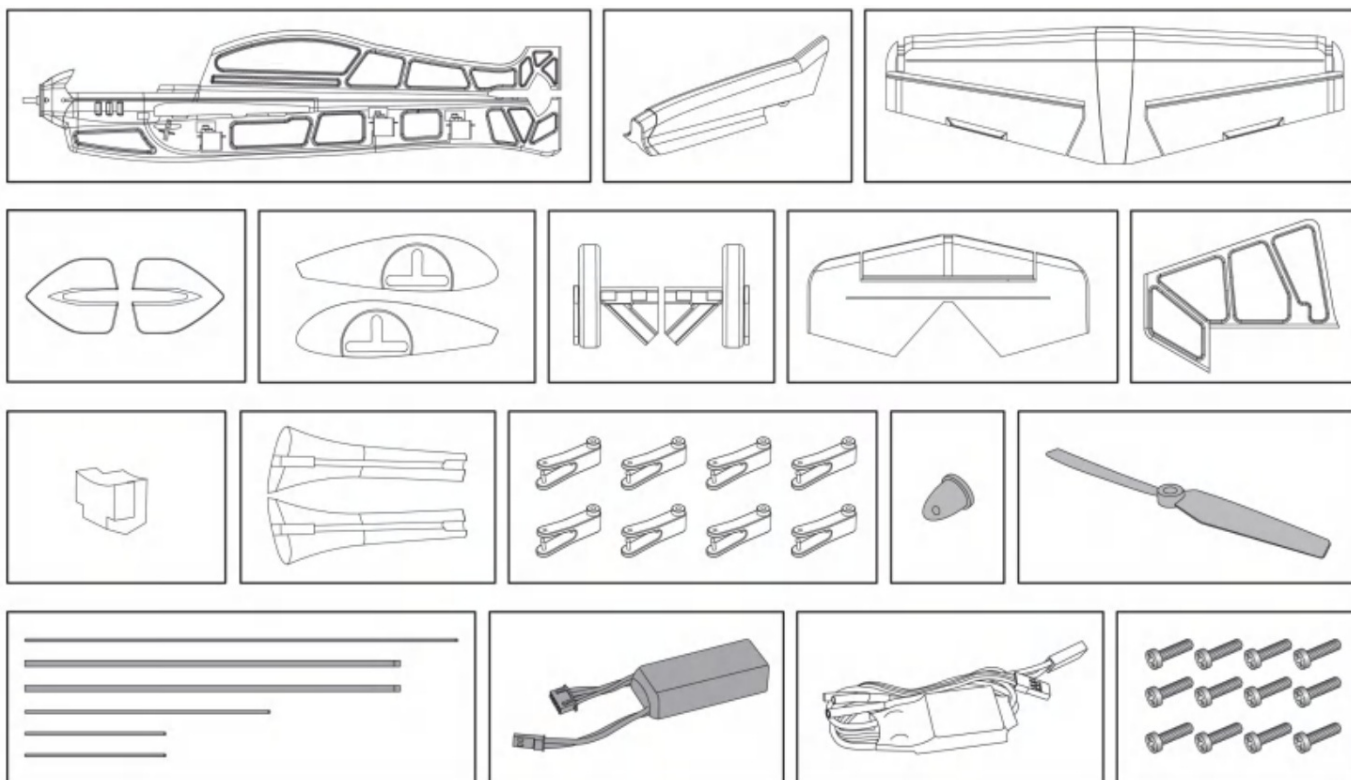
1. If the plane deviates from the right in flying, adjust the adjuster to the left.
2. If the plane deviates from the left in flying, adjust the adjuster to the right.

## Flight warning



1. Fly in spacious ground without obstacles and boscage.(Figure 1)
2. Never fly near the signs as below. Highway, railway, high tension line, crowded people, and residential area.  
(Figure 2)
3. The optimal wind speed for flight is 0-2m/s.

## COMPONENT PARTS



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

**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.

**Warning:** changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

The devices has been evaluated to meet general RF exposure requirement the device can be used in portable exposure condition without restriction

SKY CHALLENGER  
**SWIFT-ONE**

**Documents / Resources**





**[SWIFT-ONE QIDI-550 Vertical Flight RTF RC Plane](#)** [pdf] Instruction Manual  
2BAL8-QIDI550, 2BAL8QIDI550, QIDI-550 Vertical Flight RTF RC Plane, Vertical Flight RTF R  
C Plane, RTF RC Plane, RC Plane

References

-  [\[link\]](#)