

# huntsman V2

*2.4GHz RTF Brushless Powered Glider*

**Model No:6108**



**Fast assembly, No Glue Job!**



**SPECIFICATION:**

- Wing span: 1100mm
- Wing Loading: 29g/dm<sup>2</sup>
- Length:730mm
- Flying weight: 400g
- Motor thrust power:350g

**Assembly and Operation Manual**

# INSTRUCTION MANUAL **THIS MODEL IS NOT A TOY!**

## THESE INSTRUCTIONS SHOULD BE READ BY A SUPERVISING ADULT HUNTSMAN V2 2.4GHz RTF BRUSHLESS POWERED GLIDER Model No:6108

### WARNINGS

**IMPORTANT:** Before beginning assembly, please read and understand the warnings listed following. Failure to read and understand these warnings could lead to bodily harm and/or injury.

1. This model is not a toy. It is for beginner, intermediate and experienced modeller
2. Assemble the plane according to the instructions. Do not alter or modify the model. If you make any modifications, you will void your warranty.
3. It is highly recommended to fly this model under the guide of experienced modeller
4. Test the operation of the model before each flight to insure that all equipment is operating properly, and that the model remains structurally sound.
5. Fly only on light wind days and in large open areas free of trees, people, buildings or any other obstacles.
6. Always be conscious of the spinning propeller. Be careful not to allow loose clothing to be drawn into the propeller.
7. Always turn on the transmitter before turning on the airplane and always turn off the airplane before turning off the transmitter.
8. Always unplug the flight battery when not flying the airplane.
9. Do not attempt to catch the airplane while flying.
10. It is important to make sure you are always using fresh or fully charged batteries. Never allow the batteries to run low or you could lose control of the airplane.



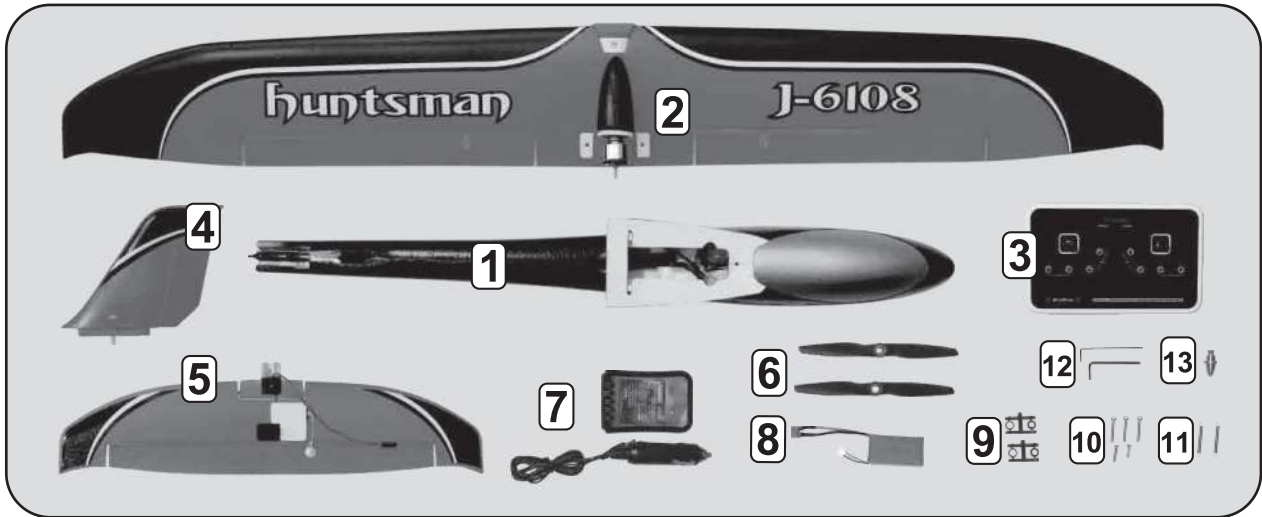
### FCC REQUIREMENT



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.

**CAUTION:** Changes or modifications to this product not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.

## KIT CONTENTS



- |                               |                     |                                    |                  |
|-------------------------------|---------------------|------------------------------------|------------------|
| 1> Fuselage                   | 2> Main Wing        | 3> 2.4GHz Transmitter              | 4> Vertical tail |
| 5> Horizontal tail            | 6> Propeller x 2    | 7> Balance charger with DC adapter |                  |
| 8> 7.4V 1100mAh LiPo          | 9> Plastic ring x 4 | 10> Screws x5                      |                  |
| 11> Horizontal tail spring X2 | 12> Hex wrench x 2  | 13> Spinner                        |                  |

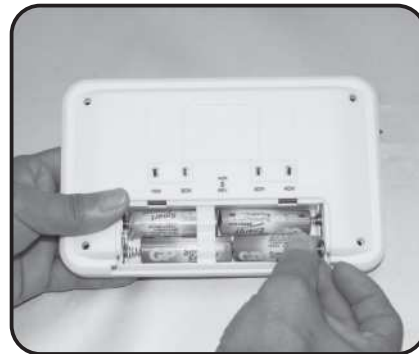
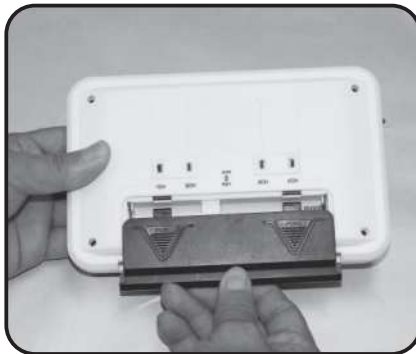
## ITEMS REQUIRED FOR COMPLETION

Four pcs "AA" Size Alkaline batteries. (For transmitter)

## PREPARATION BEFORE ASSEMBLY

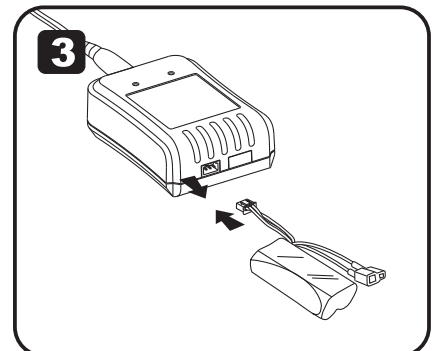
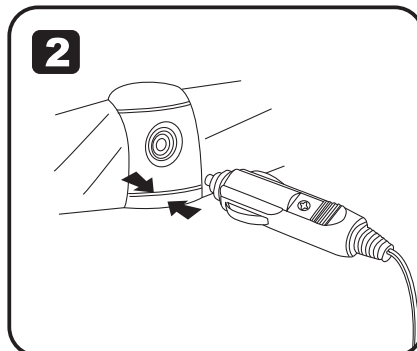
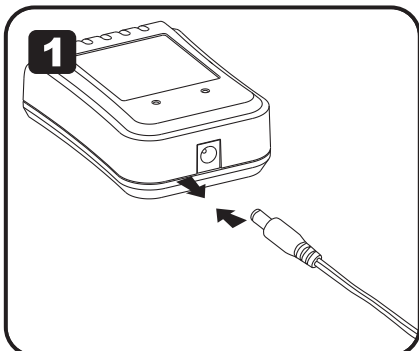
### STEP 1: INSTALLING THE TRANSMITTER BATTERIES

1. Carefully remove the battery cover from the back of the transmitter by pulling down on it with one hand while holding the transmitter with your other hand.
2. Install 4 fresh AA Alkaline batteries, being careful to make sure that the polarity is correct for each battery.
3. After double-checking that the batteries are installed correctly, reinstall the battery cover, making sure it's firmly seated into place.



### STEP 2: CHARGING THE 7.4V 1100mAh LiPo PACK

Huntsman V2 is equipped with a 7.4V 1100mAh LiPo and a 2S balance charger with DC adapter.



1. Plug the DC adapter into the balance charger.
2. Plug the DC adapter into a DC power outlet, such as car cigarette lighter, The red light turn on means power on.
3. Plug the white balance plug on 7.4V power pack into the white balance charge port on balance charger,  
Do not force them together - they only attach one way! The green light turn on means charging.
4. Supplied 7.4V power pack will charge from flat in around 90 mins. Green light turn off means charging finished.
5. Disconnect the 7.4V power pack from the balance charger, unplug the balance charger from the car.

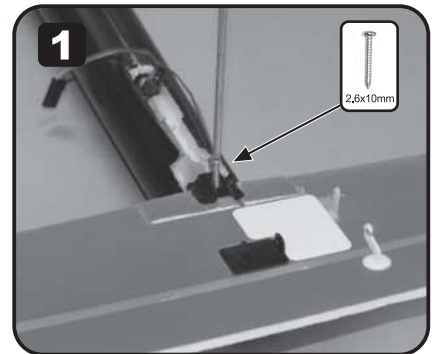
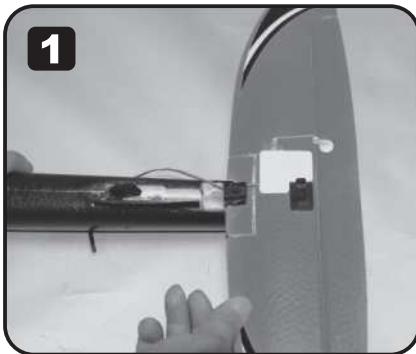
**CAUTION:**

1. This charger is designed for the rechargeable battery 7.4V 1100mAh LiPo only. Do not re-charge other kinds of batteries with this charger.
2. Never leave the battery unattended during the charging process. Always keep this charger out of reach of children.
3. Stop charging immediately if any abnormality occurs, such as power indicator is off, the temperature of the battery raise rapidly.
4. Do not attempt to disassemble the charger
5. Do not set the charger on carpet during the charging process.
6. Un-plug the charger from the vehicles' cigarette lighter if you do not intend to use it for a period of time.

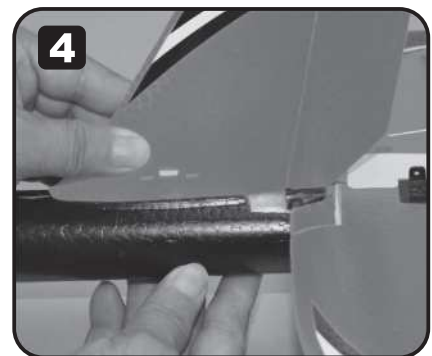
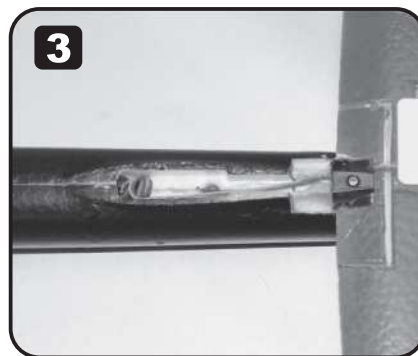
**ASSEMBLING YOUR HUNTSMAN V2**

**STEP 1: INSTALLING THE TAILS SET**

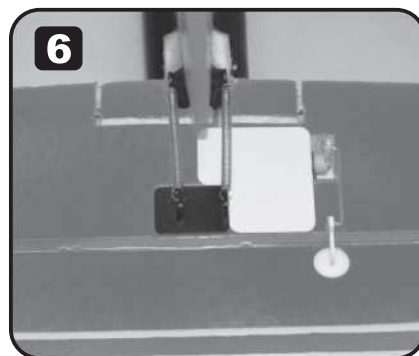
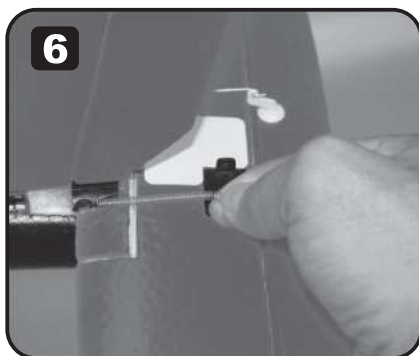
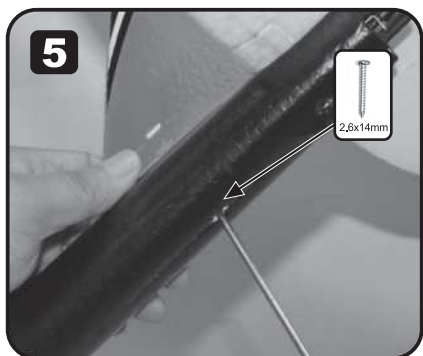
1. Place the horizontal tail on fuselage and aligned, press down vertical landing plastic fitting to lock horizontal tail in place. secure the tail set by threading PA2.6 x 10mm screw through the plastic part as shown.



2. Connect elevator servo wire plugs, do not force them together, they only attach one way!
3. Hide the plugs inside the fuselage hole, place the wire well in place. so wire won't obstacle to secure vertical tail by screw.
4. Place the vertical tail on fuselage and aligned.



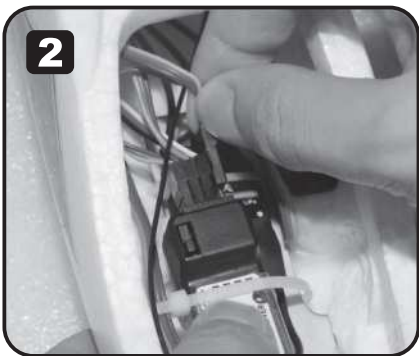
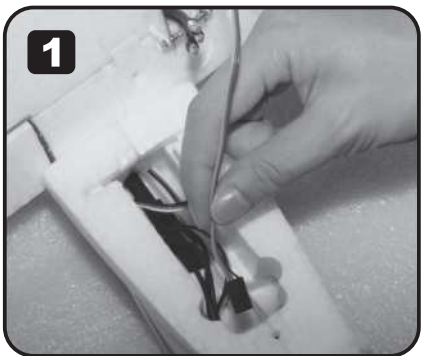
5. Secure the vertical tail set by threading PA2.6 x 14mm screw through the hole as shown.
6. Install two horizontal tail spring as photo shows.



**STEP 2: INSTALLING THE MAIN WING**

1. Thread the aileron servo wire through the fuselage.
  2. Connect the aileron servo wire to the CH1 of receiver in fuselage.
- NOTE:** The other servo wires are already connected to the receiver in factory.
3. Connect the gold plugs of motor with gold plugs of ESC inside fuselage.

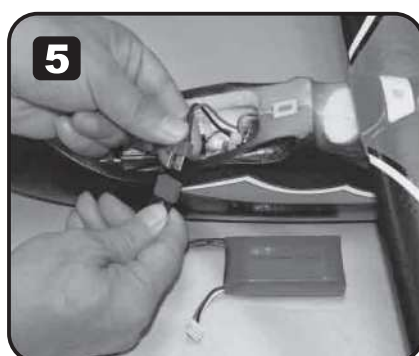
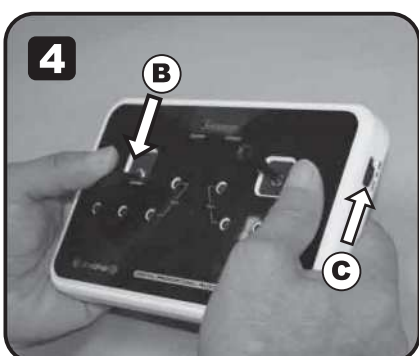
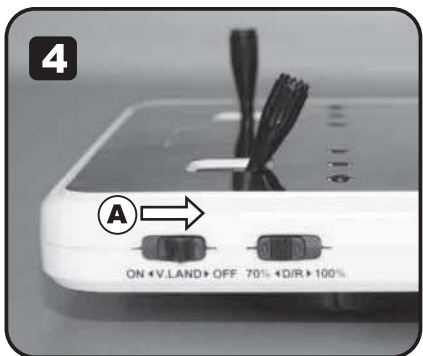
**NOTE:** Before secure wing on fuselage tightly, It's important to test the motor rotate direction correctly.



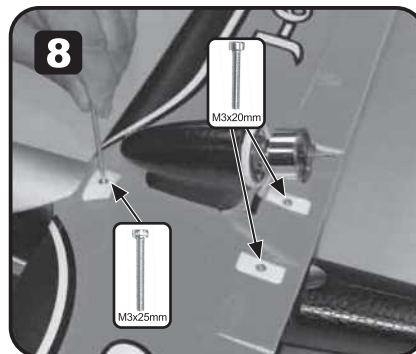
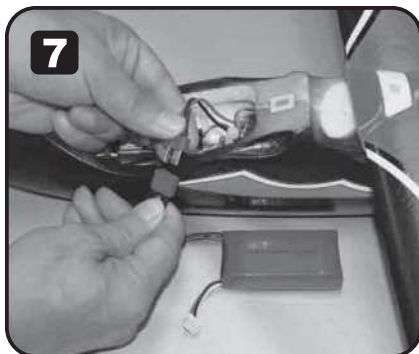
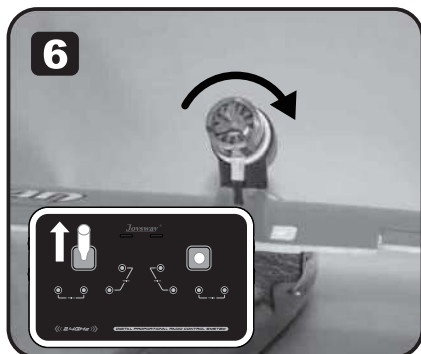
4. Switch Vertical Landing button at "OFF" position, push down the throttle stick (Left Stick, MODE 2) till the end as shown. Then turn on the transmitter by pressing on the power switch.

**IMPORTANT NOTE:** It is very important that keep the throttle stick at its lowest position before switch on transmitter. So that when you connect battery with ESC, the radio and airplane will be activated only throttle stick at its lowest position.

5. Attach the battery connector to the matching connector of ESC.

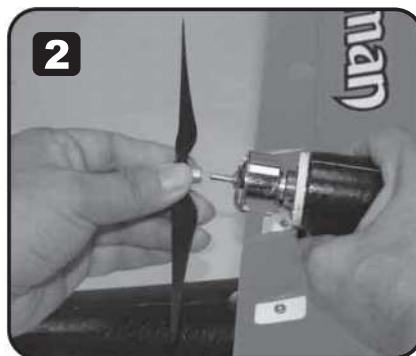
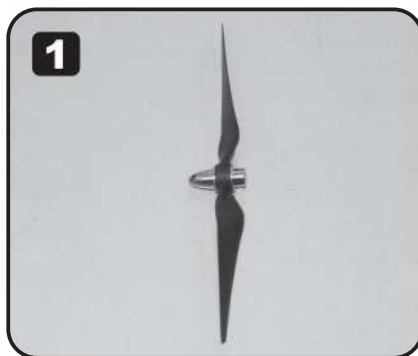
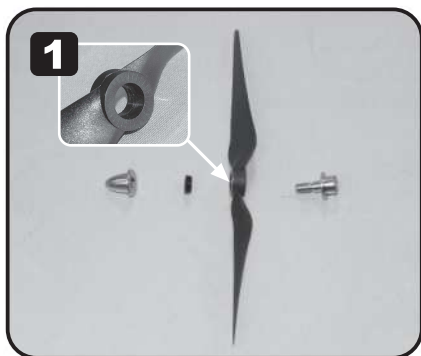


6. Move the throttle control stick forward slowly, the motor will rotate in clockwise direction. If it's not the case, simply change connection of random two wires between motor and ESC.
7. Disconnect the battery from ESC.
8. Place the main wing on fuselage properly, Secure one piece of M3x25mm screw on the front and two pcs of M3x20mm on the rear with supplied hex wrench.



### STEP3: INSTALLING THE PROPELLER

1. Assembling the propeller with the plastic ring(smaller inside diameter) and spinner in order as photos shown. Notice the propeller's orientation.
2. Slide the propeller onto the motor shaft.



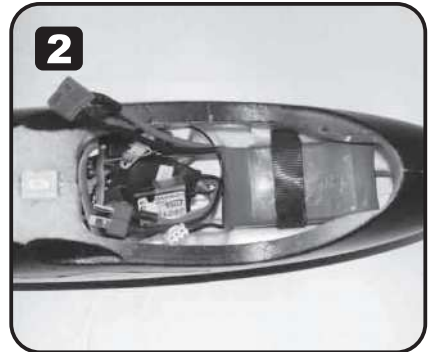
3. Secure the propeller tightly on the motor shaft by using supplied hex wrench.



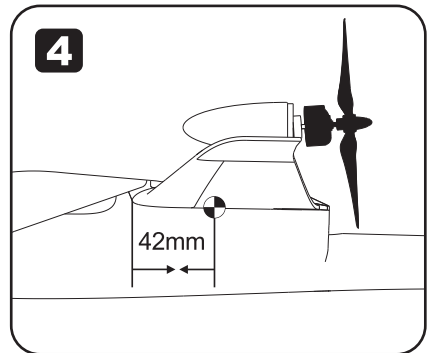
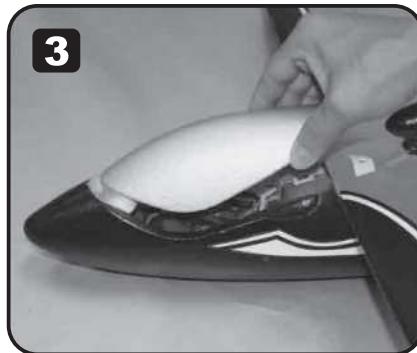
### STEP 4: INSTALLING THE LiPo PACK

**IMPORTANT** Always turn on the transmitter before turning on the airplane and always turn off the airplane before turning off the transmitter.

1. Push down the throttle stick (Left Stick, MODE 2) till the end as shown. Before turn on transmitter, make sure Vertical Landing button is at "OFF" position, DUAL RATE switch is on "70%" position. Then switch on the transmitter.
2. Remove the hatch of fuselage, Carefully put the attached LiPo pack inside the fuselage. the LiPo pack can be secured tightly by hook and loop. attach the battery connector to the matching connector of ESC.



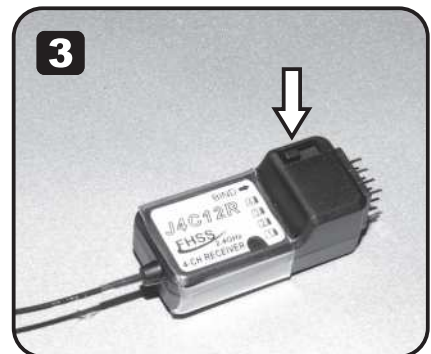
3. After plug in battery with ESC, if ESC make sounds, and receiver green light on, reinstall the hatch of fuselage. If red light on, you need to bind your transmitter with receiver, see belowing binding process for reference.
4. The proper CG position should be 42mm away from the leading edge, please refer to the picture. If not, please adjust the position of battery.



### TRANSMITTER/RECEIVER BINDING

The binding process effectively ties the J4C14 transmitter and J4C12R receiver together. Under normal circumstances, both items are supplied like this from the factory. If, however, you find that your transmitter and receiver are not bound (receiver's red LED will be lighting), you should do the following:

1. Push down the throttle stick (Left Stick, MODE 2) till the end as shown and then switch "ON" the transmitter.
2. Connect LiPo pack to ESC's matching connector
3. Press down the "BIND" button on the receiver as shown, until the receiver's red LED flash then let go, the receiver's green LED will be lighting to indicate that binding has been successful and the receiver will now accept commands from the transmitter.

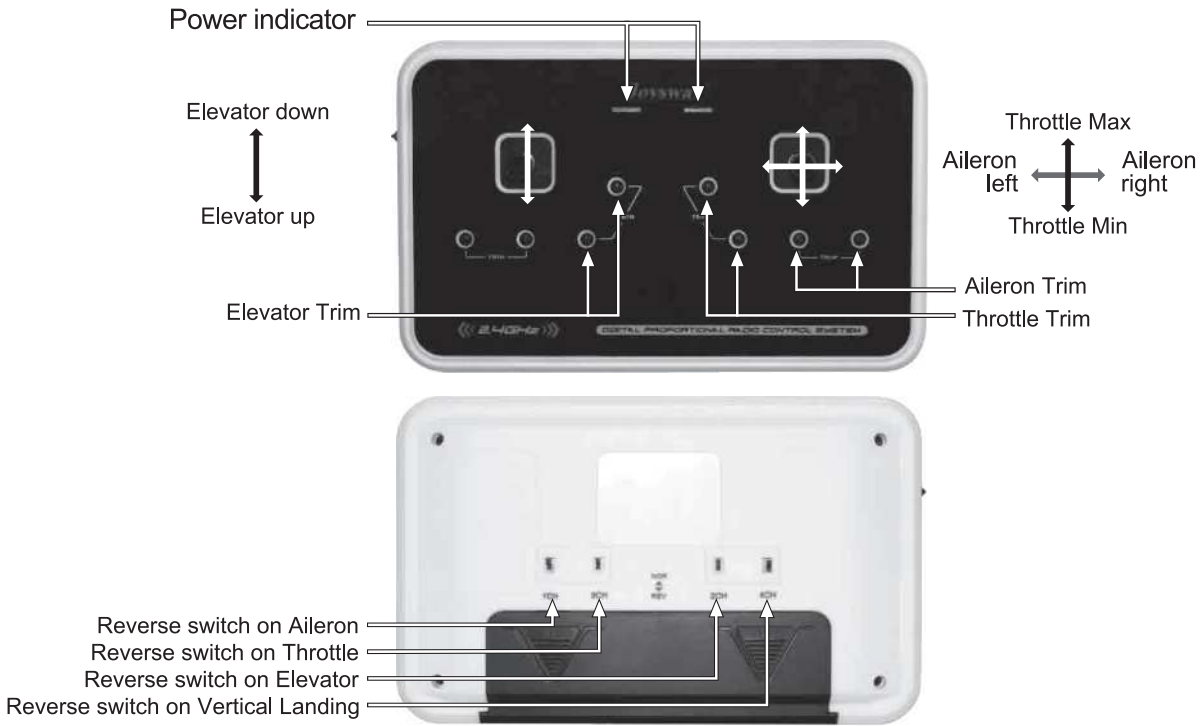


Note 1: You would need to carry out the binding process if you were to replace the included receiver with another one.  
Note 2: Typically, for the binding process to be effective, transmitter and receiver should be no more than one meter apart and no other similar devices should be within 10 meters of both during setup.

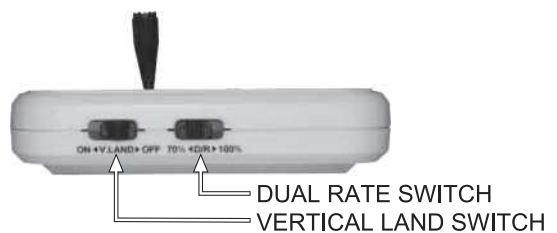
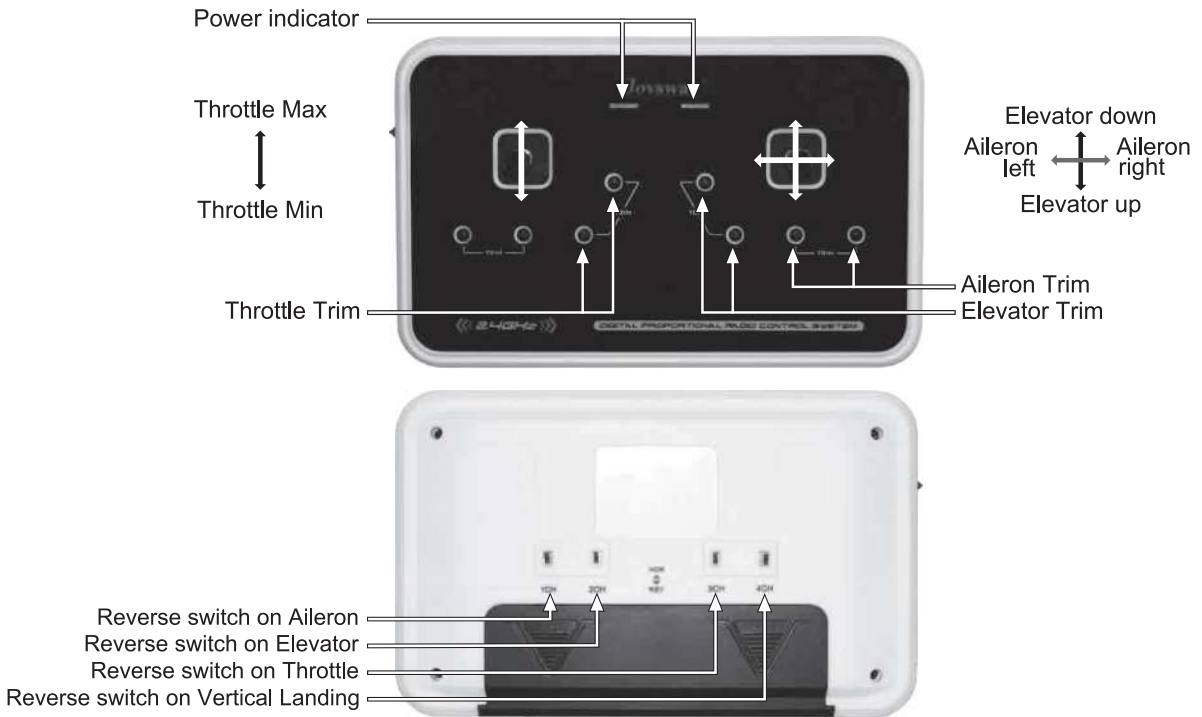
# PREPARATION BEFORE FLY

## STEP 1: FAMILIAR WITH RADIO CONTROL SYSTEM

### Mode 1



### Mode 2





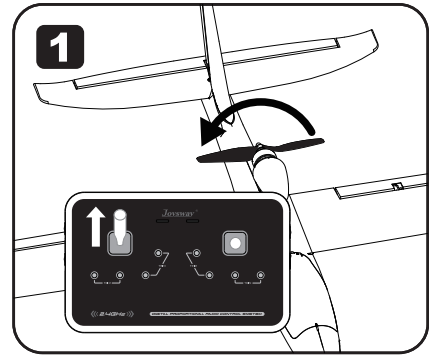
## STEP 2: TEST THE THROTTLE (Mode 2)

1. Move the throttle control stick forward slowly, the motor rotates faster gradually.

**NOTE:** If the motor doesn't react with the throttle increasing, please check the power supply or the battery capacity and the throttle reverse switch and make necessary adjustment.

**NOTE:** If throttle stick is on lowest position and motor still run, then adjust the throttle trim button to make it stop

**WARNING:** Keep everything clear of the propeller once the battery is plugged in. Do not try to stop the propeller by hand or anything else.



## STEP 3: TEST THE AILERON (Mode 2)

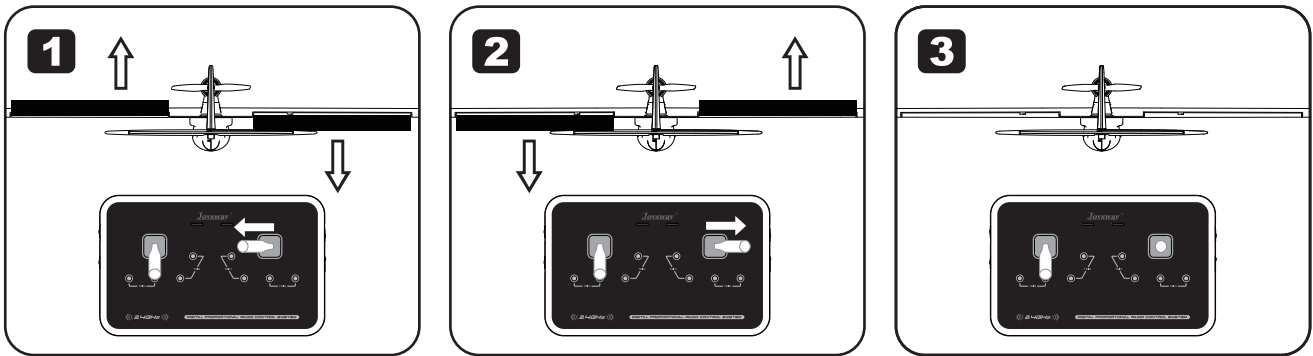
1. Move the aileron control stick to the left, the left aileron moves up and the right aileron moves down.

2. Move the aileron control stick to the right, the left aileron moves down and the right aileron moves up.

**NOTE:** If the movement of aileron works in opposite position, please check the aileron reverse switch and make necessary adjustment.

3. Let Aileron control stick returns to its neutral position, the aileron returns to its neutral position.

**NOTE:** If aileron doesn't return to neutral position, then adjust the aileron trim button to make it in neutral position



## STEP 4: TEST THE ELEVATOR (Mode 2)

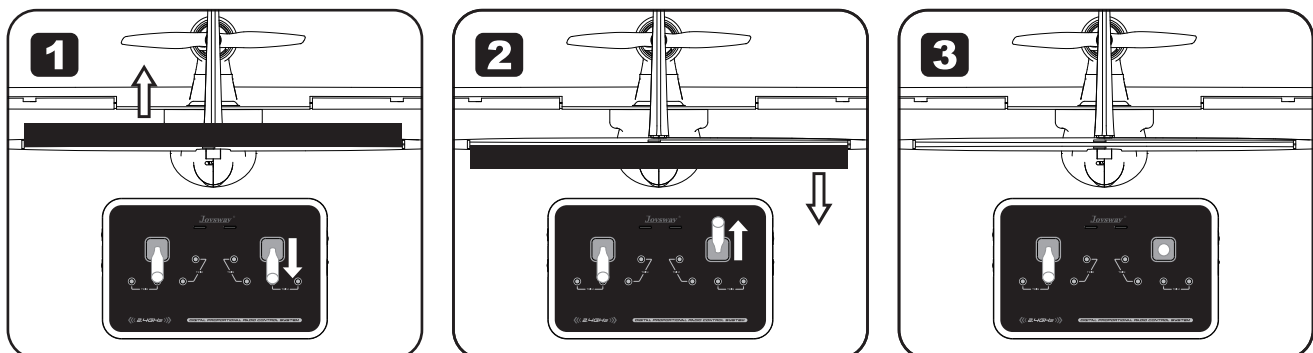
1. Move the elevator control stick backward, the elevator will be up

2. Move the elevator control stick forward, the elevator will be down.

**NOTE:** If the movement of elevator works in opposite position, please check the elevator reverse switch and make necessary adjustment.

3. Let elevator control stick returns to its neutral position, the elevator returns to its neutral position.

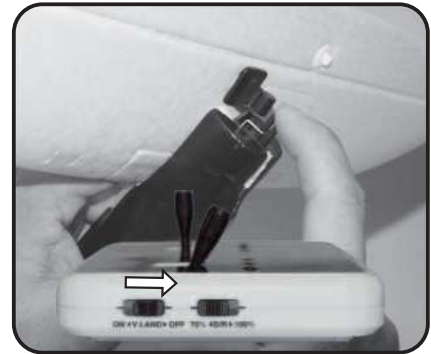
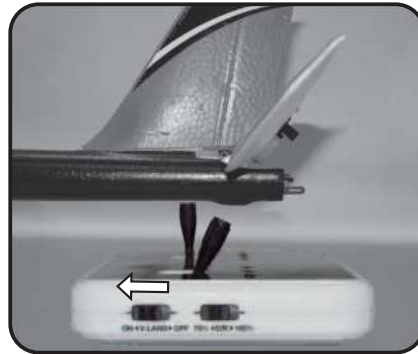
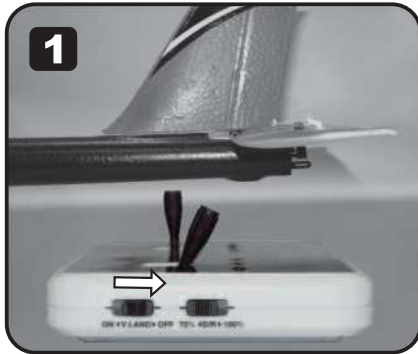
**NOTE:** If elevator doesn't return to neutral position, then adjust the elevator trim button to make it in neutral position.



## STEP 5: TEST THE Vertical Landing (Mode 2)

- 1: Vertical Landing button is at "OFF" position, Horizontal tail is secured by vertical landing fitting in place.
- 2: Switch Vertical Landing button to "ON" position, Vertical landing fitting unlock, Horizontal tail is raised up as 45° angle.
- 3: Switch Vertical Landing button back to "OFF" position, press down vertical landing plastic fitting to lock horizontal tail in place.

**NOTE:** If the movement of vertical landing button works in opposite position, please check the vertical landing reverse switch and make necessary adjustment.



## FLIGHT MANUAL

### Choose a good flying site and day

1. The ideal location for flying has wide-open space in four directions with no people
2. Choose location carefully! Do not operate model near these areas: Houses or buildings, children's play areas, road traffic, railways, airports, overhead powerlines.
3. Fly in calm weather conditions with no winds or gentle winds.

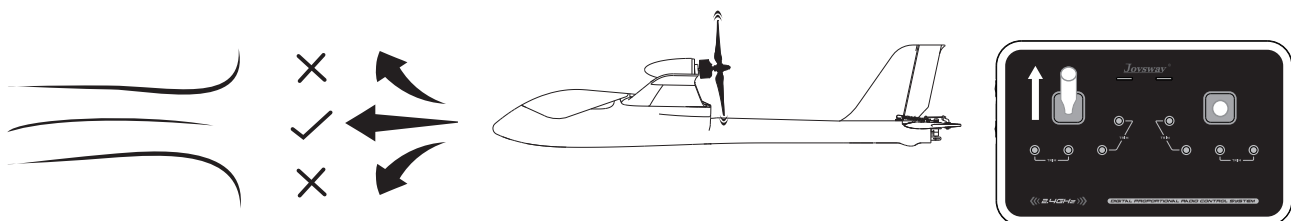
### Pre-flight check

1. Check the propeller and all screws are securely fastened.
2. Check airplane responds properly to control signals.
3. Test the range of the radio signal. It is recommended that have around 100 M range check.

## VALUABLE EXPERIENCE

### TAKE OFF (Mode 2)

1. Before take off, make sure Vertical Landing button is at "OFF" position, Horizontal tail is locked by vertical landing fitting in place. Apply full throttle while facing into the wind, hold the airplane horizontally and launch with a pushing motion.

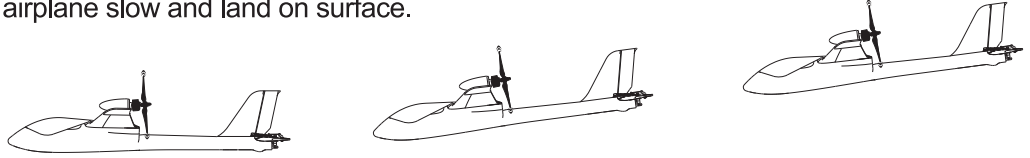


## STEERING

1. Aileron control to steer left, move aileron stick to left, combine with a small amount of up elevator(Elevator stick down),airplane will steer left without losing altitude
2. Aileron control to steer right, move aileron stick to right, combine with a small amount of up elevator(Elevator stick down), airplane will steer right without losing altitude.

## NORMAL LANDING

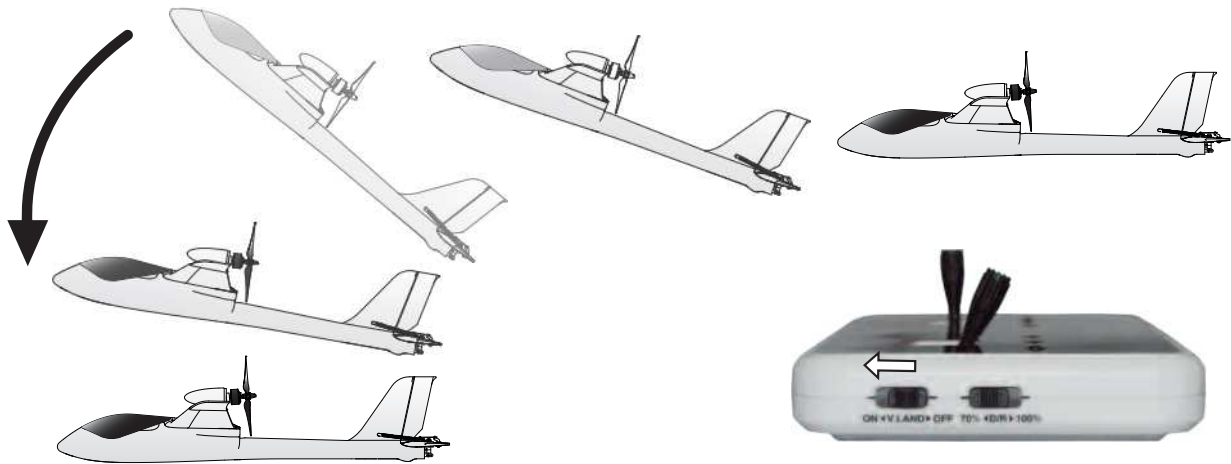
- 1.Push down throttle stick till the end to turn off throttle, control airplane fly against the wind and slowly descending, adjust throttle as needed to reach the landing area. just before landing, at about 0.5M above surface, apply a little up elevator, this will cause airplane slow and land on surface.



## VERTICAL LANDING

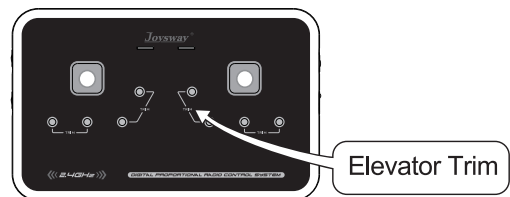
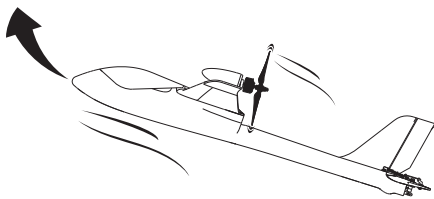
Push down throttle stick till the end to turn off throttle, control airplane fly against the wind and slowly descending. When airplane slowly reach the landing area, above around 10 meters, Switch Vertical Landing button to "ON" position, Fuselage head will raise up a little bit and then self-balance, vertically landing on surface.

After vertical landing safely, remember to switch Vertical Landing button to "OFF" position, press down vertical landing plastic fitting to lock horizontal tail in place again for next fly preparation.

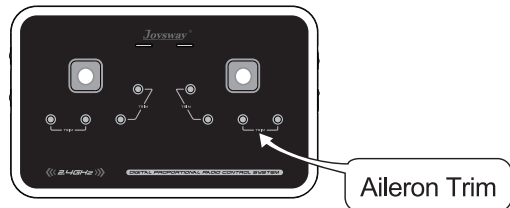
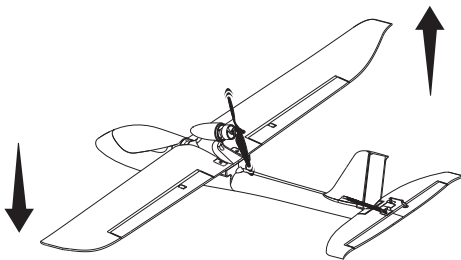


## Adjusting trims during flight (Mode 2)

1. Let go of control sticks. If airplane moves upward, adjust elevator trim to downward.



2. Let go of control sticks. If airplane inclines to the left, adjust aileron trim to the right.

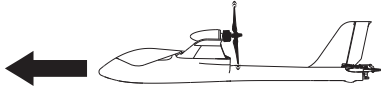
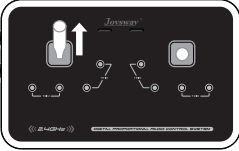
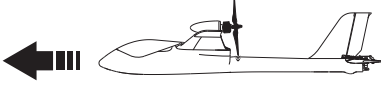
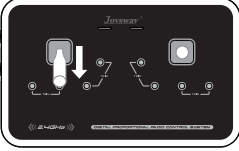
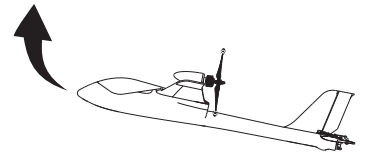
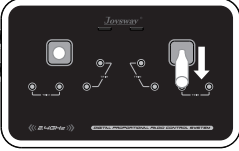
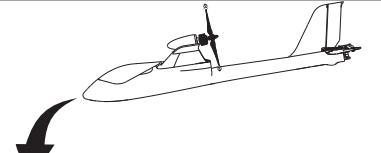
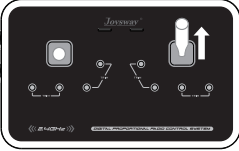
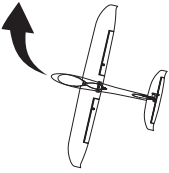
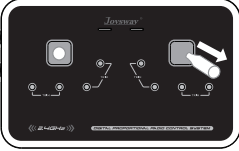
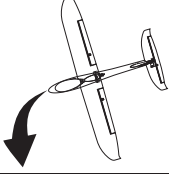
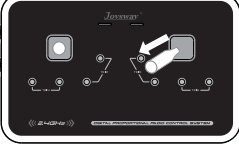


3. Adjust elevator and aileron trims so airplane flies straight and horizontal when sticks are free.

## After Landing

Disconnect the battery, then, switch the transmitter off. Remove the battery from the fuselage, Check the airplane over to make sure nothing has come loose or may be damaged.

## Command And Fly (Mode 2)

Speed up			Left stick up
Speed down			Left stick down
Ascending			Right stick down
Descending			Right stick up
Right steering			Right stick right + Small amount right stick down (elevator up)
Left steering			Right stick left + Small amount right stick down (elevator up)

## SPARE PART LIST

To order Huntsman spare parts, use the part numbers in the spare parts list that follows.

### PART NO. DESCRIPTION

- 610806 Elevator Pushrod set(PK2)
- 610807 Forced landing fitting set
- 610808 Aileron 9g servo set (PK2)
- 610809 Forced land 9g servo set (PK2)
- 610810 Elevator 3g servo set (PK2)
- 610811 Extend wire for elevator servo (PK2)
- 610815 12A Brushless ESC set
- 610816 7.4V 1100mAh 25C LiPo
- 610817 Fuselage set-yellow V2
- 610818 Fuselage set-orange V2
- 610819 Main wing set-yellow V2
- 610820 Main wing set-orange V2
- 610821 Vertical tail set-yellow V2

### PART NO. DESCRIPTION

- 610822 Vertical tail set-orange V2
- 610823 Horizontal tail set-yellow V2
- 610824 Horizontal tail set-orange V2
- 610825 Hatch-V2
- 610826 2.4GHz Transmitter set-J4C14 for 6108 (MODE 1)
- 610827 2.4GHz Transmitter set-J4C14 for 6108 (MODE 2)
- 610828 Huntsman decal sticker set-V2
- 610105 Pushrod adjuster set(PK2)
- 610204 Aileron pull wire set
- 610208 CF2812 Brushless motor 1950KV set
- 610210 Propeller & Spinner set (PK2)
- 610212 2S Balance charger 800mA with DC adapter
- 610218 2.4GHz 4CH Receiver set-J4C12R
- 630219 Magnet set for hatch(PK2)