

TOP®
RC HOBBY

AGE 14+

T1400

Radio Control Model Airplane

Operation Manual



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Statement

1. Please read this manual carefully and follow the instructions before you use this product.
2. Our airplane is not a toy, which is only suitable for the experienced flier or under the guidance of the experienced pilot.
3. Not recommended for children under 14 years old.
4. Please adjust this plane according to the instruction and make sure that the finger and other parts of your body be out of the rotating parts of the plane, or it may cause damage to the plane or injury to your body.
5. Do not fly in the thunderstorm, strong wind or bad weather.
6. Never fly the plane where there are power lines overhead, automobiles, near airdrome, railway or highway.
7. Never fly our plane where are crowds of people. Give yourself plenty of room flying, as the plane can fly at a high speed. Remember that you are responsible for others safety.
8. Do not attempt to catch the plane when you are flying it.
9. The user should bear full responsibility of proper operation and usage with regards to this model. We, Top RC together with any distributor of us will not be responsible for any liability or loss due to improper operation.

Brief Introduction

Thank you for purchasing the T1400 glider from Top RC Hobby, and we hope this plane will bring you a lot of enjoyment.

- ★ It is very easy to assemble in a few minutes and the wings are removable, so it is easy to transport.
- ★ The wings are reinforced with carbon rods to improve the strength of the entire structure.
- ★ This aircraft adopts the traditional high wing design to ensure the gliding

performance and stability of the aircraft. It is suitable for beginners and intermediate pilots.

- ★ Large battery compartment design, means 1300-2600mAh batteries can be used in this aircraft, and it allows more space for consumers to modify for FPV flight.

Main Specifications

- ★ Wingspan: 1400mm
- ★ Length: 980mm
- ★ Flying Weight: 590g
- ★ Thrust: $\geq 750\text{g}$
- ★ Flight time: $\geq 12\text{minutes}$

Main configuration

- ★ Radio system: 4CH+
- ★ Motor: 2604-1950KV
- ★ Battery: 11.1V 1300mAh 20C
- ★ ESC: 20A
- ★ Servo: 9g plastic gear*4

Components

PNP version

Includes Fuselage, Main wings, Horizontal wing, Vertical wing, connecting rod and accessories bag.



ARF version

PNP version+ Transmitter+Receiver

RTF version

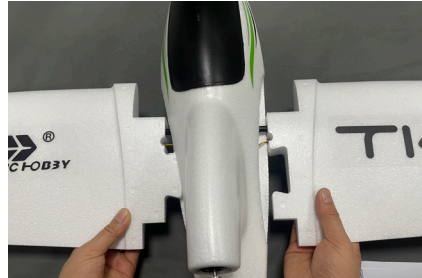
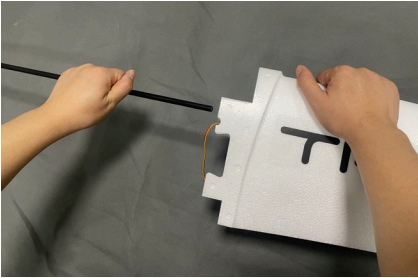
PNP version+Transmitter+Receiver+Charger+Battery.

KIT version

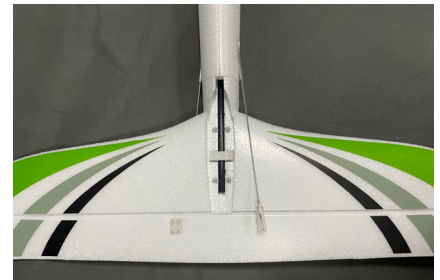
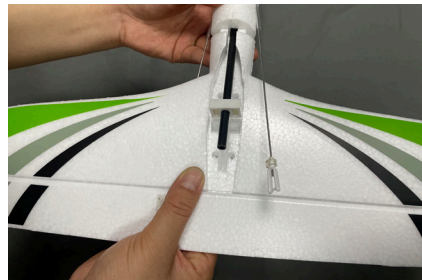
Only frame set without any electronic parts.

Assembly process

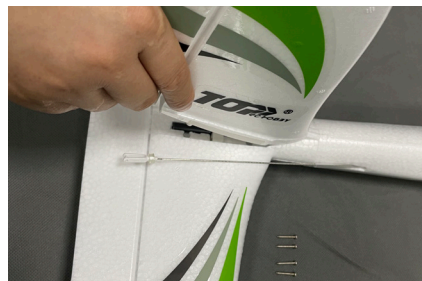
1. Please remove the fuselage & main wings & parts from the accessory bag. Firstly, please insert the carbon tube into one of the main wings and assemble the right wing and left wing to the fuselage, then connect left aileron wire and right aileron wire to the Y wire in the fuselage.



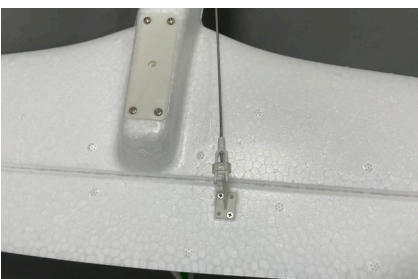
2. Remove the horizontal stab from the foam package and take off the assembled fuselage after the first step, please assemble the horizontal stab to the fuselage and make sure that the carbon tube of the fuselage is in the assembly slot of the horizontal stab.



3. Take the screws from the accessory bag, please fit the vertical tail to the assembly slot on the horizontal stab and secure it with the 4pcs PA2.0*15mm screws.

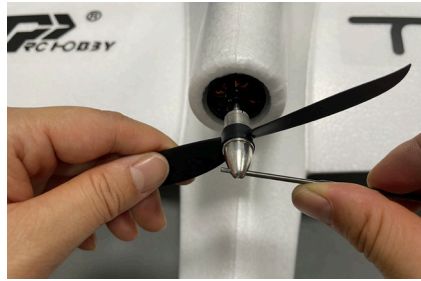
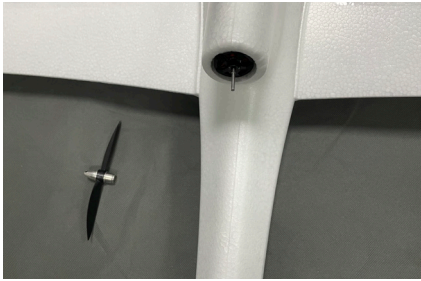


4. Make sure that all the servos are in the neutral position, then adjust all the control surfaces so that they are centered. Please insert the clevis for elevator and rudder push rod to the outermost hole for each control horn. Finally, slide the sleeves over each clevis as per the following photos.



Assembly process

5. Take the prop set, and assemble the prop to the motor shaft and use the wrench to secure it tightly.



6. The assembly of the T1400 is finished.

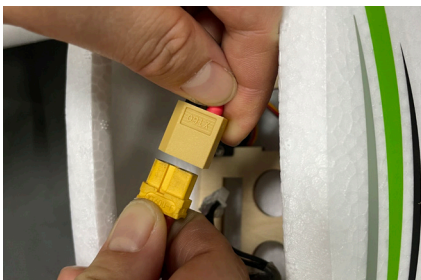


Adjustment steps (RTF version)

1. Make sure that the throttle stick is in the lowest position and other trim switches are in the neutral position. Turn on the transmitter.



2. Connect the lipo battery plug to the ESC plug and put the battery into the battery compartment in the front of the fuselage, then fit the canopy.



Adjustment steps (RTF version)

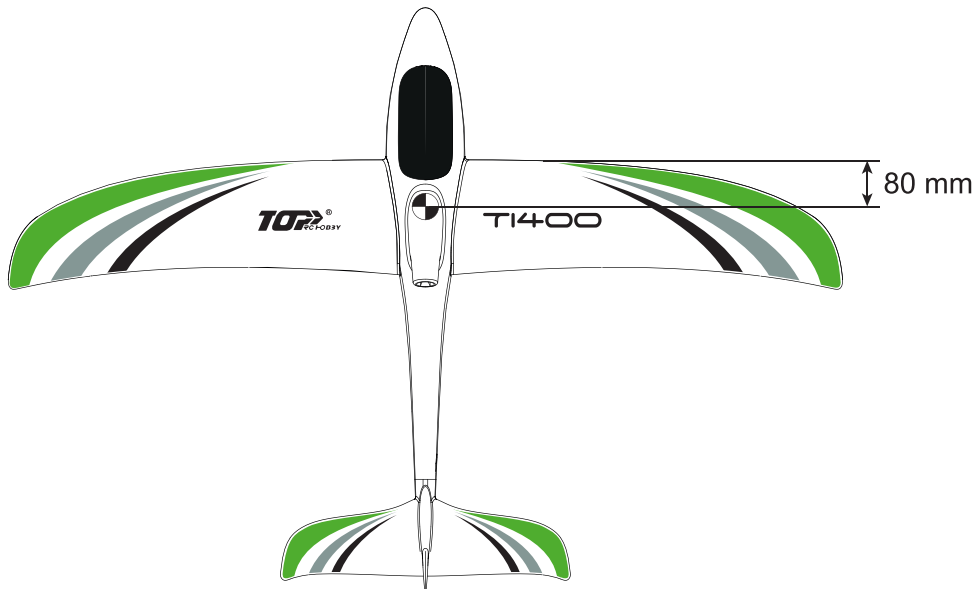
3. Hold the rear part of the fuselage and push the throttle joystick slowly forward to ensure that the motor can run normally, we also need to make sure that the battery is fully charged.



4. Check and confirm that all the clevis for all the control surfaces are tight and make sure that the movement for all the control surfaces are consistent with the movement of all the joysticks.



5. Check the CG and make sure that the CG position is within the range shown below.



6. Adjustment of T1400 is finished.



Charging method

Li-Po battery(balance charger) specifications

Specifications:

- Input voltage: AC 100V-240V
- Balance charge current: 3*800mA
- Display: Green & Red LED
- Case: Plastic
- Dimension: 90mmx55mmx-35mm
- Weight: 180g
- Watts: 10

Indicator state:

Green: Charge complete or no battery
Red: Charging

When the voltage reaches 4.20V, the charging process stops.



Charger Operation

1. Connect the charger to power. Three power LEDs will turn from red to green which indicates that the charger is in good working order.

2. Connect the battery pack to 2s or 3s balance port. When two or three LEDs turn red, charging begins. Please note once the charging of one cell is done, the corresponding LED will turn green.

3. When two or three (2s/3s) LEDs all turn green, the charging for the battery pack is finished.
Note: Do not charge damaged batteries!



Power Slot



Power LED

3S Balance Port

2S Balance Port

WARNING

Please correctly connect the B3 charger to power and battery pack according to the procedure outlined.

Please use this charger under supervision.

Please place the charger in a dry environment and keep it away from fire.

Please don't tightly pull and drag the power cord or replace it, or else the fire/electric shock will be caused.

Please don't touch the charger and power with wet hands or it will bring in electric shock.

To extend the working life of the charger, please remove it from power once charging is finished.

Children must be watched by adults to use the charger.

1. Do not disassemble or reconstruct the battery.
2. Do not short-circuit the battery.
3. Do not use or leave the battery near the fire, stove or heated place(more than 80C).
4. Do not immerse the battery in water or sea water, do not get it wet.
5. Do not charge the battery under the blazing sunlight.
6. Do not drive a nail into the battery, strike it by hammer or squash it.
7. Do not impact or toss the battery.
8. Do not use the battery with conspicuous damage or deformation.
9. Do not charge a warm battery. Allow it to cool completely before attempting to charge.
10. Do not reverse charge or over discharge the battery.
11. Do not connect the battery to the ordinary charger socket or car cigarette jack.
12. Do not use the battery for unspecified equipment.
13. Do not touch the leaking battery directly, please wash your skin or clothes with water if they are in touch with liquid leaking from the battery.
14. Do not mix the Li-poly battery with other un-chargeable battery.
15. Do not continue charging the battery over the prescribed time.
16. Do not put the battery into the microwave oven or high-pressure container.
17. Do not use the abnormal battery.
18. Do not use or keep the battery under the sunlight.
19. Do not use the battery nearby the place where generates static electricity(over 64V).
20. Do not charge the battery when the environmental temperature is under 0 C.
21. If you find the battery leaking, smelling or abnormal, stop using it and return it to the seller.
22. Keep the battery away from children.
23. Use the specified charger and observe charging requirement(under 1A).
24. When using by minors, parents should supervise.

Trouble shooting

Problem	Possible Cause	Solution
Aircraft will not respond to the throttlebut responds to other controls.	<ul style="list-style-type: none"> -ESC is not armed. -Throttle channel is reversed. 	<ul style="list-style-type: none"> -Lower throttle stick and throttle trim to lowest settings. -Reverse throttle channel on transmitter.
Extra propeller noise or extra vibration.	<ul style="list-style-type: none"> -Damaged spinner, propeller, motor or motor mount. -Loose propeller and spinner parts. -Propellor installed backwards. 	<ul style="list-style-type: none"> -Replace damaged parts. -Tighten parts for propeller adapter, propeller and spinner. -Remove and install propeller correctly.
Reduced flight time or aircraft underpowered.	<ul style="list-style-type: none"> -Flight battery charge is low. -propeller installed backward. -Flight battery damaged. 	<ul style="list-style-type: none"> -Completely recharge flight battery. -Replace flight battery and follow flight battery instructions.
Control surface does not move, or is slow to respond to control inputs.	<ul style="list-style-type: none"> -Control surface, control horn, linkage or servo damage. -Wire damaged or connections loose. 	<ul style="list-style-type: none"> -Replace or repair damaged parts and adjust controls. -Do a check of connections for loose wiring.
Controls reversed.	Channels are reversed in the transmitter.	Do the control direction test and adjust controls for aircraft and transmitter.
<ul style="list-style-type: none"> -Motor loses power -Motor power pulses then motor loses power. 	<ul style="list-style-type: none"> -Damage to motor, or battery. -Loss of power to aircraft. -ESC uses default soft Low Voltage Cutoff(LVC). 	<ul style="list-style-type: none"> -Do a check of batteries, transmitter, receiver, ESC, motor and wiring for damage(replace as needed). -Land aircraft immediately and recharge flight battery.
LED on receiver flashes slowly.	Power loss to receiver.	<ul style="list-style-type: none"> -Check connection from ESC to receiver. -Check servos for damage. -Check linkages for binding.

Trouble shooting guide

Strict ground inspections should be done before each flight, to help avoid flight accidents.

1. Check if the screws of the whole airplane are installed in place or not, the servo arms and horns are connected reliably or not and wings fixing are locked or not.
2. Install the battery and adjust the aircraft's center of gravity to the recommended position in the manual.
3. Make sure power battery, remote control transmitter battery, etc. are fully charged and in a reliable working condition.
4. Gently push the throttle to check if the propeller is turning correctly or not.
5. After all checks are completed, the flight can be started. The first flight for beginners needs the assistance of experienced enthusiasts to avoid flight accidents due to improper operation.

About flight time

The recommended flight time is using the battery what we suggest, and the flight test is completed by experienced enthusiasts on a breezy day. This flight time is related to battery parameters, aircraft weight, flight conditions and flight methods. Different conditions may result in different flight times.

We recommend that the initial flight time be set to 4-5 minutes.

Depending on your flying style and the weather conditions flight times in excess of 12 minutes are possible. As power reduces we recommend to not fly downwind as the motor may not have the power to bring your model back into the wind.

Spare parts list for T1400



No: TOP100001
Fuselage

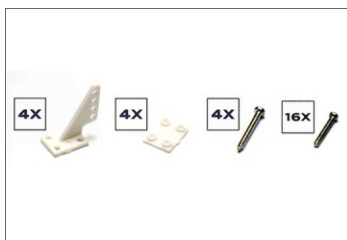


No:TOP100002
Main wing set



No:TOP100003
Rudder+Horizontal Stab set

Spare part for T1400



No: TOP10007
Linkage Horn / 4 pcs



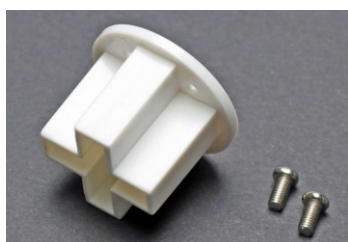
No: TOP10008
Clevis / 2 pcs



No: TOP10009
Canopy



No: TOP10010
Propeller(2pcs.) 5*5E



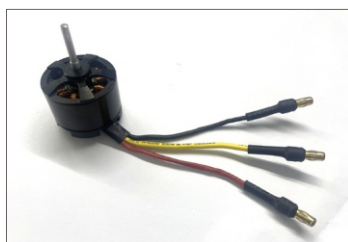
No: TOP10011
Motor mount



No: TOP10012
Wing joiner



No: TOP10013
Servo Y wire



No: TOP10014
Brushless Motor
2604-1950KV



No: TOP10015
Brushless Motor W/Spinner
2604-1950KV



No: TOP10016
20A Brushless ESC



No: TOP10017
Spinner/Prop mount

T1400

Radio Control Model Airplane



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