

14+
AGES

TORNADO

HIGH SPEED BRUSHLESS RC BOAT



Operating Instruction

Please read the manual carefully and be familiar with the operation before controlling the product at full speed, so as to avoid the risk of damage or loss.

PRECAUTIONS

▲ This product is only for users over 14 years old. ▲ Keep away from rotating blades.



Disposal and recycling of lithium batteries

Discarded lithium batteries cannot be thrown into the trash bins. Please get in touch with the environmental protection department, the waste agent or the model supplier, or contact the nearest lithium battery recycling center.



Solemn statement

The products of the company are continuously improved, and the design and parameters are subject to change from time to time without prior notice. All materials in this manual have been carefully checked to be accurate. If there are any errors or omissions, please contact us for correction. The company reserves the right of final interpretation.



RTR | 2.4GHz
READY-TO-RUN

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.

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

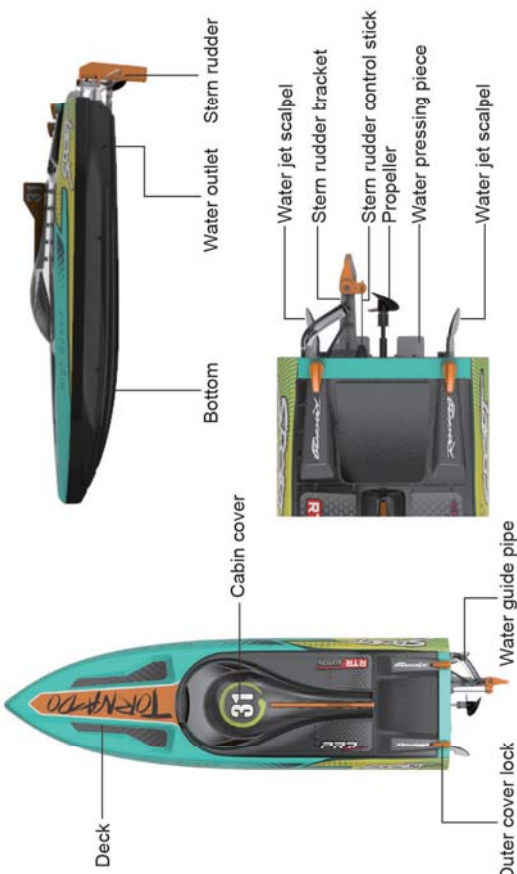
* RF warning for Portable device:

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

1. LIST OF PACKAGING ACCESSORIES



2. NAMES OF PRODUCT COMPONENTS

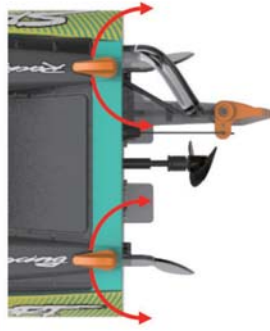


3. INSTALLATION STEP OF BRACKET

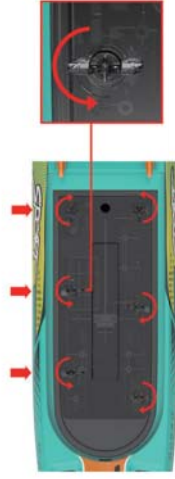


The product is provided with a bracket: when the yacht is idle, it can be placed on the desktop by the aid of the bracket, and the stern rudder of the hull can be protected against damage.

4. OPENING OF CABIN COVER



- ① Twist leftwards or rightwards to open the outer cover lock.



- ③ Rotate the lock according to the arrow mark of the inner cover, and take out the inner cover upward.

5. INSTALLATION OF CABIN COVER



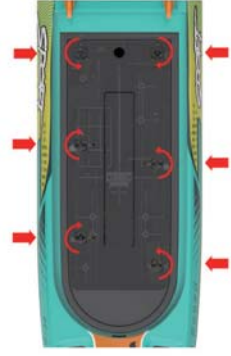
- ① Firstly, align the snap in the front of the inner cover (as shown by the arrow) and push it forward to close the inner cover.



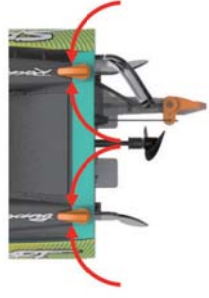
- ③ Firstly, align the snap in the front of the outer cover (as shown by the arrow) and push it forward to close the outer cover.



- ② Lift the rear wing of the outer cover first and pull it back to open the outer cover.



- ② According to the arrow mark of the inner cover, rotate the lock to latch the inner cover, check whether it is flat without warping, and press the irregular edge by hand when necessary to make it flat.



- ④ Turn back to the middle and close the outer cover lock. If the rotating button is not locked correctly, the outer cover cannot be closed.

6. INSTALLATION STEP OF BATTERY



- ① Put the battery into the battery compartment in the hull. Connect the battery output port and the electronic control input end correctly, according to the above figure.

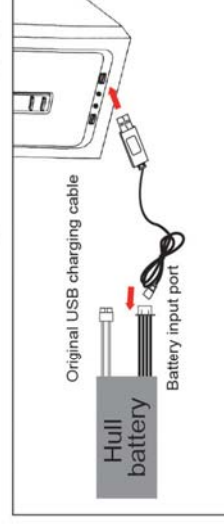


- ③ After covering the engine compartment outer cover, lock in the outer cover lock.

7. CHARGING OF BATTERY

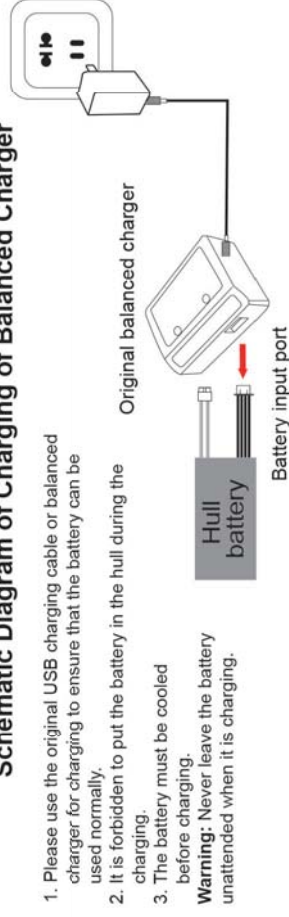
The battery is of low power when leaving the factory. It can only be used after the power is fully charged.

Schematic Diagram of Charging of USB Charging Cable



Connect the attached USB charging cable to the ship model battery charging input port, and then connect the power supply. During the charging, the red indicator light flashes. When charging is completed (about 4-6 hours), the red indicator light stays on.
Warning: Never leave the battery unattended when it is charging.

Schematic Diagram of Charging of Balanced Charger



1. Please use the original USB charging cable or balanced charger for charging to ensure that the battery can be used normally.
2. It is forbidden to put the battery in the hull during the charging.
3. The battery must be cooled before charging.

Warning: Never leave the battery unattended when it is charging.

8. INSTALLATION OF DRAIN PIPE

Before sailing, the drain pipe shall be installed on the hull according to the legend.



Note: The exposed part of the water pipe is fixed. Do not pull it, so as to avoid changing the direction of the water pipe and causing unnecessary troubles.

9. INSTRUCTION ON THE KEYS OF REMOTE CONTROLLER



10. INSTALLATION OF REMOTE CONTROLLER BATTERY



Bottom of
Battery cover remote controller
4X1.5V "AA" battery
(nonstandard configuration)

Open the battery cover at the bottom of the remote controller and install it into the battery compartment according to the direction of positive and negative "+" "-" of the battery specified in the battery box.

11. PAIRING AND CONNECTION BETWEEN REMOTE CONTROLLER AND YACHT

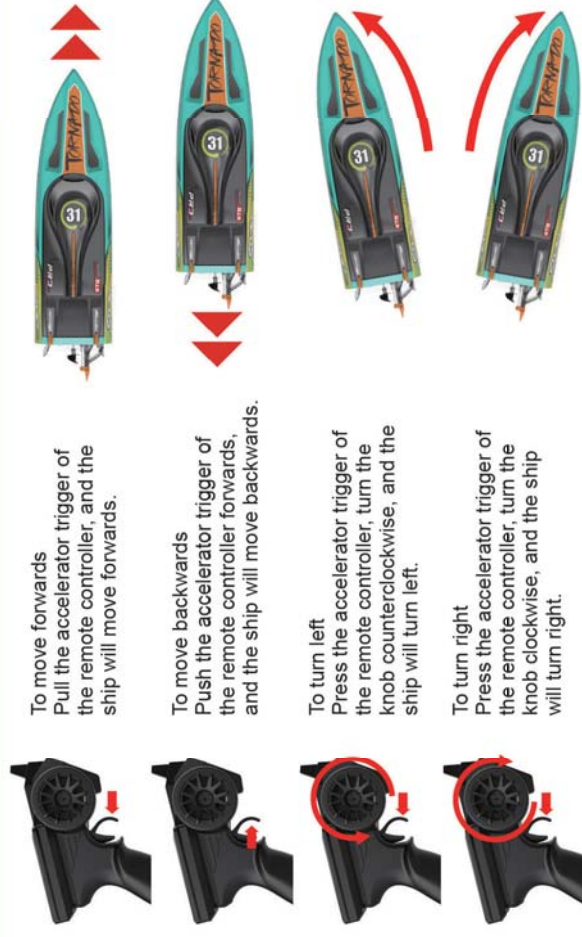
Please ensure that the accelerator trigger and the control knob of the remote controller function properly

1. After the remote controller is powered on, it will make a "tick" sound, and the indicator light flashes to enter the frequency pairing state.
2. After the marine battery is installed and powered on, please tighten the cabin cover.
3. The remote controller makes a "tick-tick" sound, and the indicator light will stay on, indicating that frequency pairing is successful.
4. After the success of frequency pairing, pay attention to the propeller to avoid unnecessary damage.

It is recommended to be familiar with the operation of the hull on the water before long-distance navigation.



12. OPERATION INSTRUCTIONS OF HULL



To move forwards
Pull the accelerator trigger of the remote controller, and the ship will move forwards.

To move backwards
Push the accelerator trigger of the remote controller forwards, and the ship will move backwards.

To turn left
Press the accelerator trigger of the remote controller, turn the knob counterclockwise, and the ship will turn left.

To turn right
Press the accelerator trigger of the remote controller, turn the knob clockwise, and the ship will turn right.

CAPSIZING RESET

Push and pull the accelerator rhythmically and quickly according to the video. The operation should be from press to push, and repeat the operation twice. The last stop position shall be in the reirait position. Observe whether the hull is returned to a normal state. If the self-overturning fails three consecutive times, please try again one minute later, so as to avoid the decline of the waterproof performance due to the high temperature of the hull.



The detailed operation can be shown after scanning the QR code in the figure.
If the video cannot be played, please ask the dealer of the purchase channel for the video file.



NIGHT SAILING LIGHT

The product is equipped with an LED light set, which is suitable for night sailing identification. Turn on the remote controller switch, and press and hold the LED light switch for three seconds to turn on the LED light set.

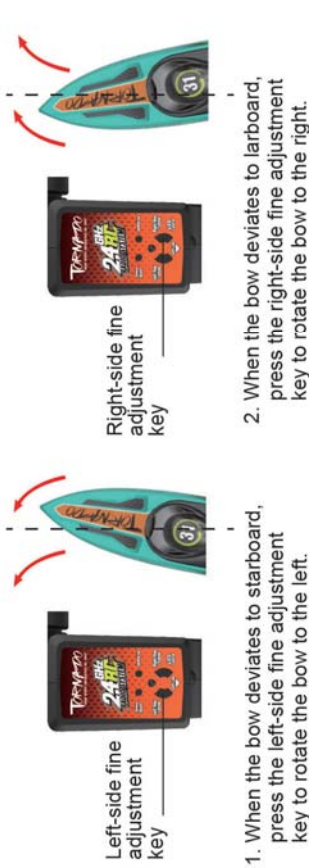


Press and hold the LED light switch to control the light on or off



STEERING FINE ADJUSTMENT

Press the left and right fine adjustment keys to adjust the direction of the ship if it is unable to navigate in a straight line.



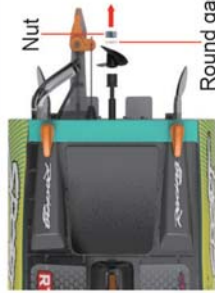
1. When the bow deviates to starboard, press the left-side fine adjustment key to rotate the bow to the left.
2. When the bow deviates to larboard, press the right-side fine adjustment key to rotate the bow to the right.

SPEED CHANGEOVER

During the sailing, you can press the 'Deceleration Key' or 'Acceleration Key' to control the speed of the yacht.



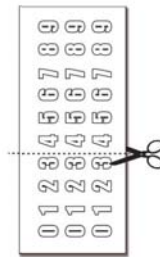
13. PART REPLACEMENT



Propeller replacement:

Remove the nut, retain the round gasket, pull out the damaged propeller and pry it with a tool. Press in the new propeller, put in the round gasket just retained, and lock in the nut.

14. PASTING METHOD OF STICKER



1. Cut the to-be-pasted numbers from the sticker.
2. Paste the cut numbers to the required position flatly, (the arrow in the figure indicates the reference position)
3. After 15 minutes, tear off the transparent film.



PRECAUTIONS

1. It is forbidden to charge the battery unless both the charging battery and the battery are provided by the factory. In the case of accidents, the responsibility shall be borne by yourself.
2. It is forbidden to carry out illegal refitting on the product. In the case of accidents, the responsibility shall be borne by yourself.

Low battery warning:

Yacht: When the hull is of low battery, the remote controller will continuously make "tick, tick, tick..." sound, the speed will be halved, and the capsizing reset function is automatically turned off. The user should remotely control the hull to return as soon as possible.

Remote controller: When the remote controller is of low battery, the remote controller will continuously make "tick, tick, tick..." sound to remind the user to remotely control the hull to return as soon as possible for battery replacement.

Safety tips:

Before sailing, you should turn on the power switch of the remote controller firstly. When the connection between the power switch and the hull battery has been completed, the frequency pairing will be activated. After frequency pairing is completed, the hull will make a sound. Please ensure that the battery and the motor are firmly connected. The poor connection of the power supply terminal may result in continuous vibration. The improper operation may impact the yacht and damage the hull or the propeller. Please sail in the waters without people, and stay away from salt water and dirty water. The battery shall be taken out after the sailing, and the engine compartment shall be kept dry and clean.

Battery maintenance:

When the yacht speed is reduced significantly during use or when the low-voltage alarm sounds, the battery is low. Please control the yacht to return within one to two minutes. If the yacht continues to sail, the battery will be in an over-discharge state. After the yacht returns, please unplug the battery from the hull immediately. The plug must be pulled out. Otherwise, the battery is discharged. Under the continuous discharge state, the battery will be over-discharged to show swelling in appearance. There are two possible results of the over-discharged battery. First, the usable time during the later use will be significantly reduced. It is not recommended to continue to use such batteries, and the original battery should be purchased from the dealer for replacement. Second, the battery has been damaged and cannot be charged.

Hull maintenance:

After use, please open the inner cover if a small number of water drops exist, the hull is in the normal state, the interior dry state can be kept after drying and pouring the plug is pulled out to disconnect the battery from the hull, and a dry towel is used for wiping off the water on the hull and on the hardware around the propeller.

SELF-REVERSAL PROCESS

In the process of hull reversal, if it fails three times, stop all the next operations and stay on the water for one minute before continuing the self-reversal. And so on...

The rotating shaft rotates at high speed and rubs against the copper pipe. If it fails to reverse successfully after three attempts, the copper pipe will generate a high temperature to meet the waterproof glue. This may cause a leakage of the hull.



TROUBLESHOOTING

	Fault	Cause of fault	Solution
1	The indicator light of the remote controller is off	1. The battery is low 2. The positive and reverse poles of the battery are installed in a wrong way 3. The contact is poor	1. Replace the battery of the remote controller 2. Install the battery according to the correct instructions 3. Clean the contact piece between the battery and the battery compartment
2	The yacht cannot be paired with the remote controller	1. The indicator light is off 2. There is a disturbing signal nearby 3. There are some improper operations 4. Electronic components are damaged due to frequent system halts	1. Follow the above solutions 1, 2, and 3 2. Restart the yacht and the remote controller 3. Follow the user manual step by step 4. Purchase spare parts again and replace damaged parts
3	The capsized yacht is to be turned upright at a low voltage	1. The propeller is seriously deformed 2. The angle of the propeller is incorrect 3. The battery is low 4. The battery does not work or is discharged 5. The contact is poor	1. Replace the propeller 2. Install the propeller correctly according to the user manual 3. Charge the battery of the hull as required 4. Purchase the battery again for replacement 5. Disconnect and reconnect the battery
4	The hull tilts to one side	1. The steering engine arm is seriously not vertical 2. The stern rudder is seriously not vertical 3. The steering engine slips	1. Calibrate the steering engine arm according to the instructions 2. Calibrate the stern rudder according to the instructions 3. Replace the steering engine with a new one according to the instructions
5	The frequency pairing fails	The return spring cannot return to normal position and make the response due to the loss caused by repeated use	1. It is successful after hearing the frequency pairing sound when the runner is turned left and right 2. It is successful after hearing the frequency pairing sound when the accelerator is slowly pulled back and forth
6	The hull makes abnormal noise during the sailing	1. The wire installed with the battery in the hull rubs against the motor rotation 2. The propeller blades are notched or damaged	1. Regulate the distance between the battery wire and the motor 2. Replace the propeller
7	The capsized yacht is to be turned upright at a low voltage		Halt all operations for about 10-15 minutes. Try the self-reversal when the low-voltage alarm is cleared, and charge the yacht in time after its returning

WARNING

Warning: The product should only be used by adults and children over 14 years.
 Adult supervision is required for children under 14 years.
 Hinweis: Dieses Produkt ist für die Erwachsene und die Kinder ab 14 Jahren.
 Die kinder unter 14 Jahren müssen von Erwachsenen beaufsichtigt werden.
 Avertissement: Ce produit est destiné aux adultes et aux enfants de plus de 14 ans.
 Les enfants de moins de 14 ans doivent être surveillés par des adultes.
 Avvertimento: Questo prodotto è destinato all'uso per i adulti e bambini di età superiore ai 14 anni.
 I bambini di età inferiore ai 14 anni devono essere sorvegliati da un adulto.
 Advertencia: Este producto es para adultos y niños mayores de 14 años.
 Los niños menores de 14 años deben ser supervisados por adultos.



MADE IN CHINA