

Quick Start Guide to Water Flap Propellers

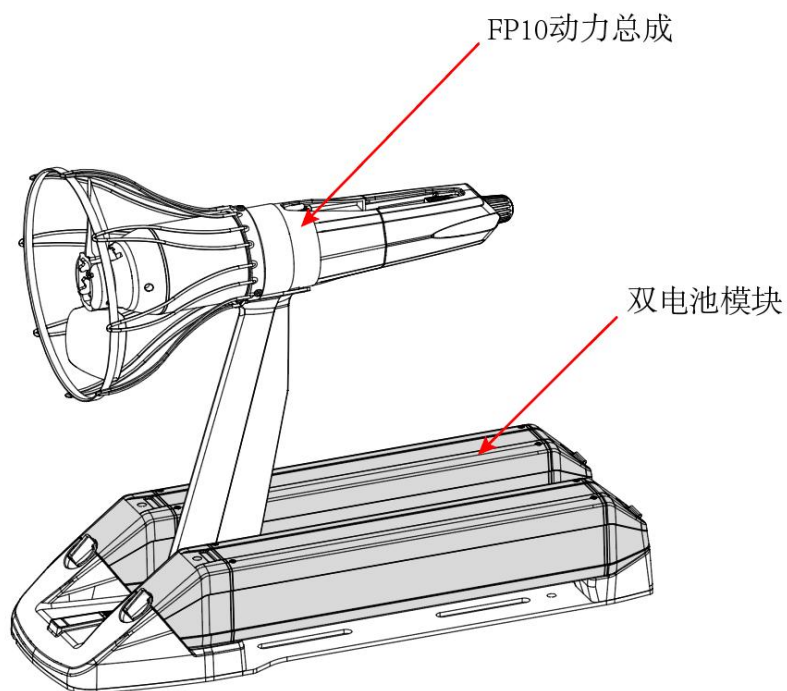
This manual is intended to guide you to assemble, disassemble the hydrofoil propeller and replace the folding paddle correctly, so as to ensure the safe and stable operation of the equipment. Before any operation, please read this manual carefully and strictly follow the operation steps and safety precautions.

1. Product packing list

Foil Assist Powertrain* 1, Foil Assist Smart Battery* 2, Foil Assist Charger* 1, Foil Assist Charger Base* 1, AC Power Cord* 1, EVO Remote Control* 1, Crescent Tool* 1, Rack Tool* 1, Bluetooth Coupling Antenna* 2, Machine Tooth Screw M5* 2 sets, Machine Tooth Screw M5* 4 sets, Mast Rear Edge Gasket (Thickened 5mm)* 2, Mast Rear Edge Gasket (Thickened 5mm)* 2, L-shaped 2.5mm Hex Tool* 1, L-shaped 4mm Hex Tool* 1

2. product presentation

The waterfoil thruster consists of a powertrain and dual battery module, supports both pull and push propeller modes, and is compatible with a variety of mast specifications.



In order to adapt to different mast string lengths, the equipment is designed with replaceable front and rear mast clamp rubber pad structure. By matching different specifications of rubber pads and bolts, it can achieve accurate adaptation to various mast string lengths, and the specific adaptation range is shown in the following table:

Glider assembly	Standard bolt M5X25 suitable chord length range (MM)	Lengthening bolt M5X45 suitable for string length range (MM)
Standard front rubber pad + standard rear rubber pad	124~106	139~106
Standard front (back) rubber pad + extended rear (front) rubber pad	119~99	134~116
Extended front rubber pad + extended rear rubber pad	114~94	129~111

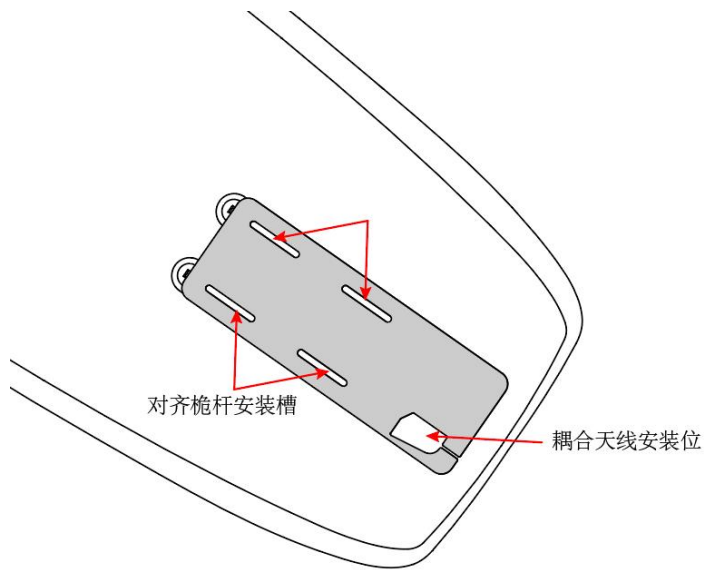
3. Product installation

List of tools

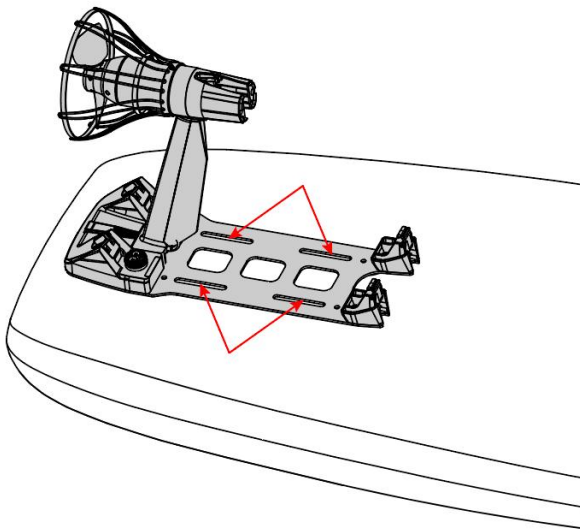
L-shaped 4mm hex screwdriver, magnets on remote control, grease

2.1 Product installation steps (push back method)

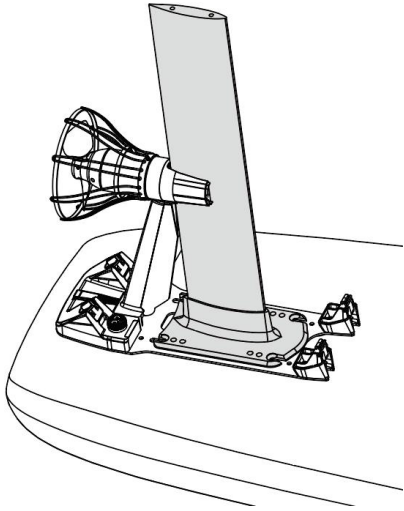
1. Installation of coupling antenna: Place the coupling antenna positioning card on the slot of the plate according to the indicated direction, align the slot hole, and then stick the coupling antenna in the specified installation range. After the coupling antenna is firmly attached, remove the coupling antenna positioning card.



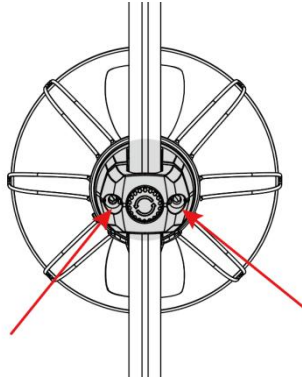
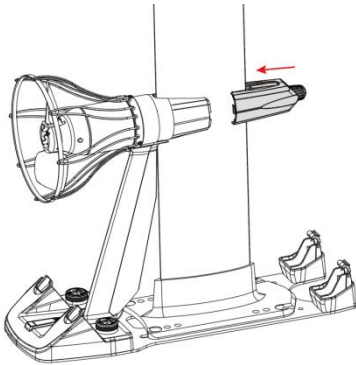
2. **Mounting the powertrain:** Adjust the position of the nut in the plate slot first, and then place the powertrain on the bottom of the plate (consistent with the installation position of the coupling antenna), ensuring that the four positioning slots shown in the figure are precisely aligned with the mast positioning slot on the bottom of the plate.



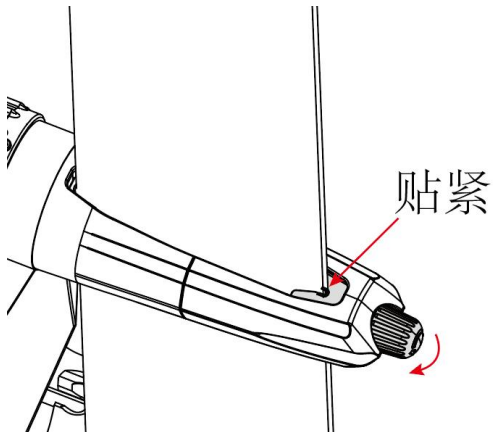
3. **Fix the mast:** put the mast into the position shown in the figure, make the rubber pad on the mast clamp fit tightly with the mast, and adjust the position of the nut on the mast bolt. Confirm the position and lock the mast fixing bolt.



4. Install the mast front clamp assembly: Insert the mast front clamp assembly into the front edge of the mast, align with the mast rear clamp, and tighten the bolts on both sides.

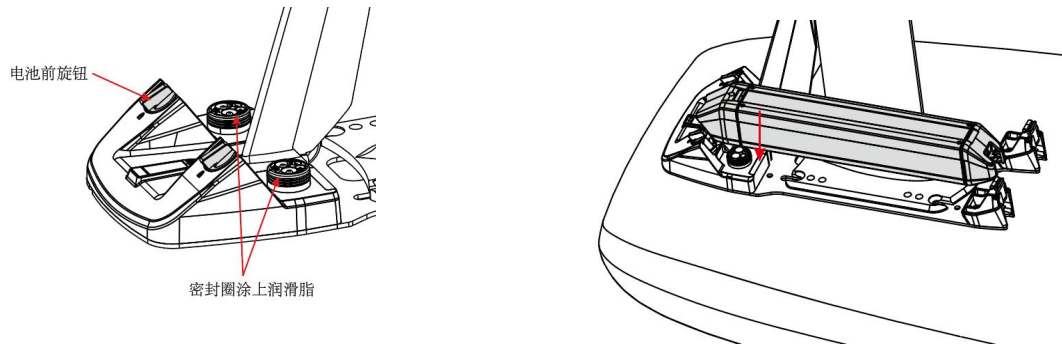


5. Lock the mast: Turn the hand nut clockwise to lock the mast.

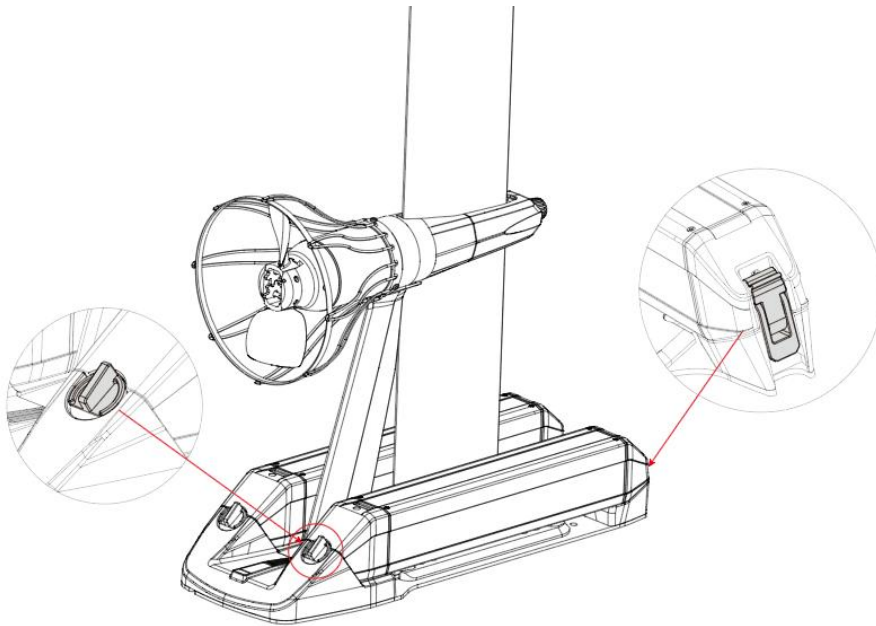


6. Install the battery:

1. Apply grease to the two seals on the main control box, adjust the front knob of the two batteries to the diagram state, and then insert the battery into the hole position smoothly.

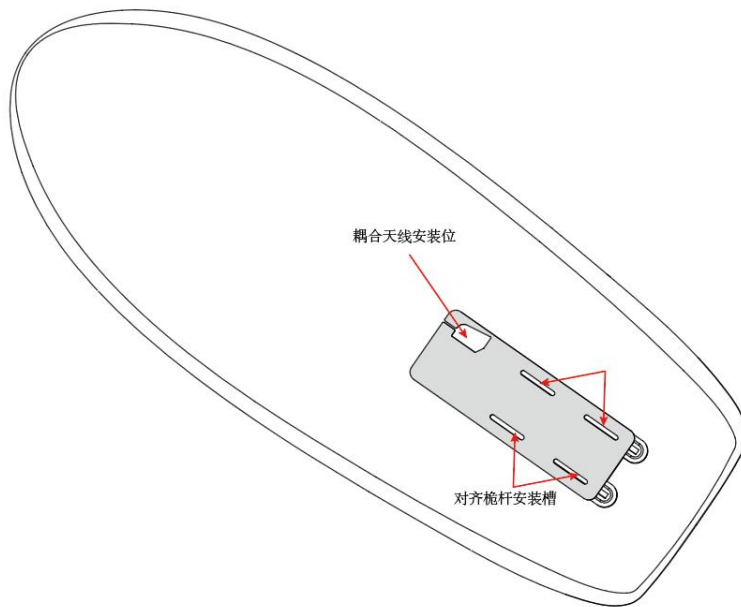


2 .After inserting the battery, lock the front end of the battery to the diagram position and then lock the rear end of the battery to the diagram position.



2.2 Product installation steps (pulling forward)

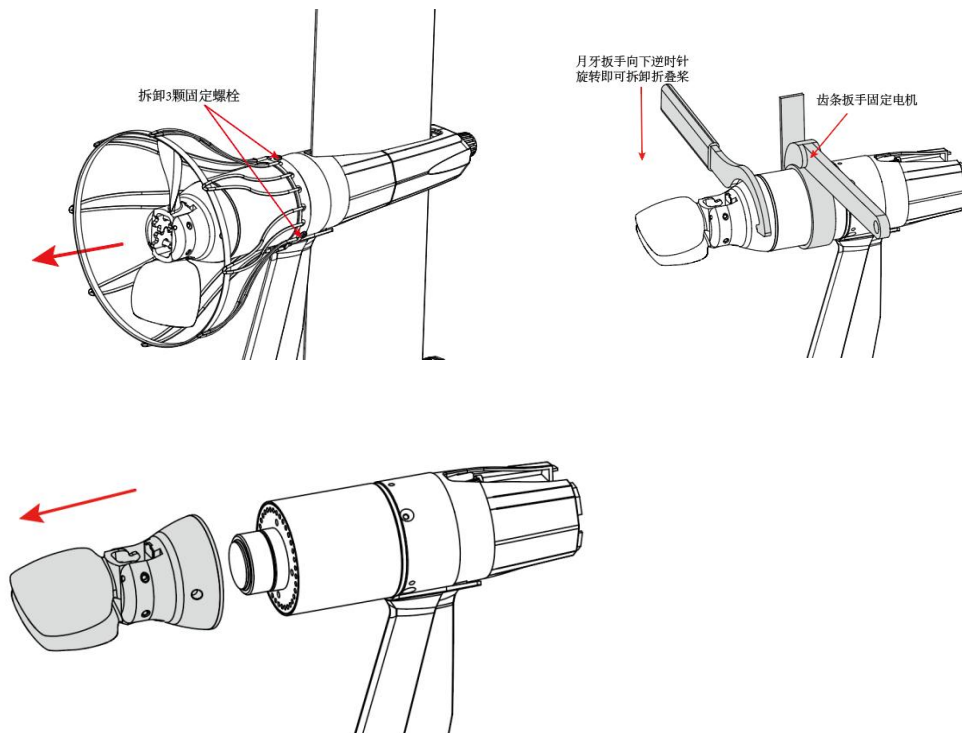
1. Installation of coupling antenna: same as push-back installation



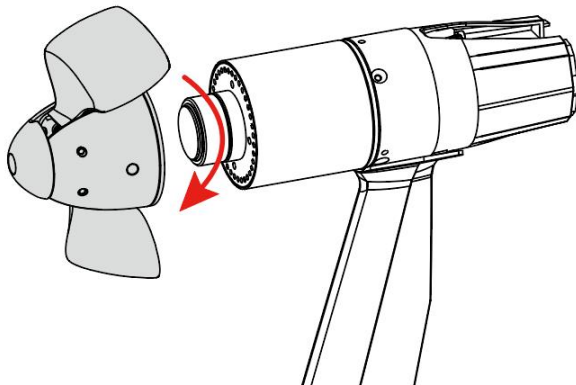
2. Change the mast clamp rubber pad: replace the rubber pad in the front mast clamp with that in the rear mast clamp

3. Change folding propeller:

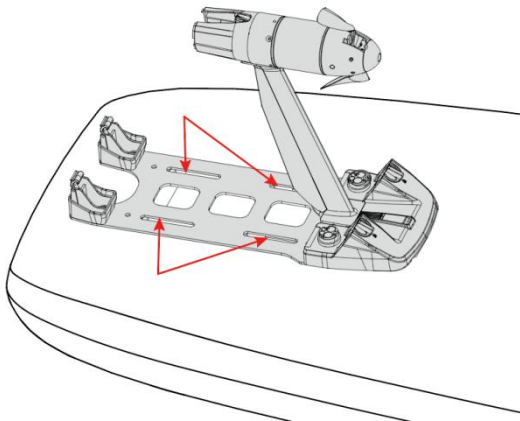
1. Remove the folding paddle: First remove the paddle cover, then remove the folding paddle. Hold the motor and rotate the folding paddle counterclockwise to remove it; (if it is difficult to remove, you can use the crescent wrench and rack wrench to assist in removing it)



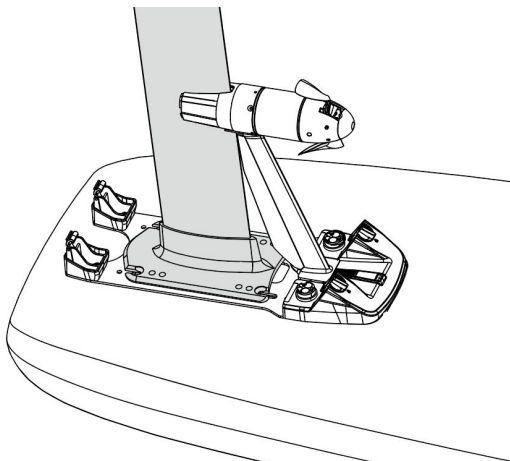
2. Install the front pull folding paddle: align the front pull folding paddle with the motor thread position and tighten it clockwise;



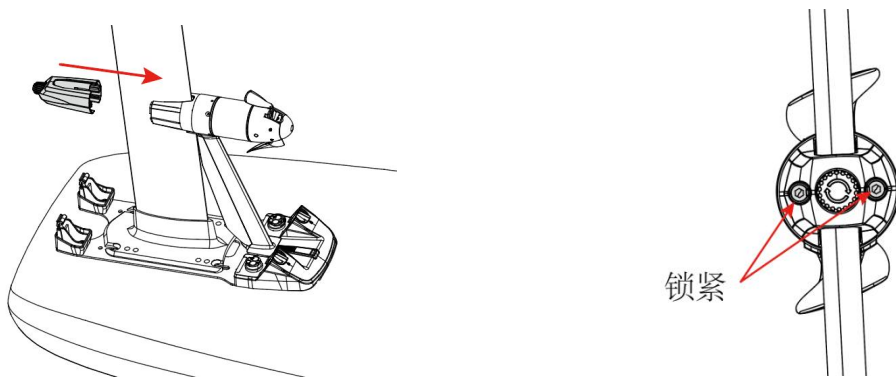
4. Mounting of placement powertrain: same as rear thrust installation



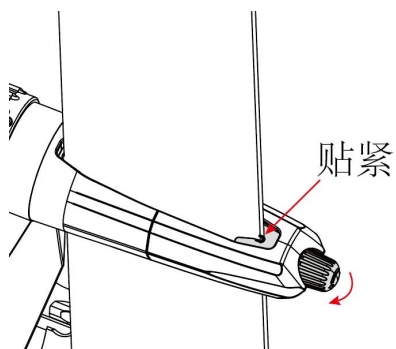
5. Fixed mast: same as push back installation



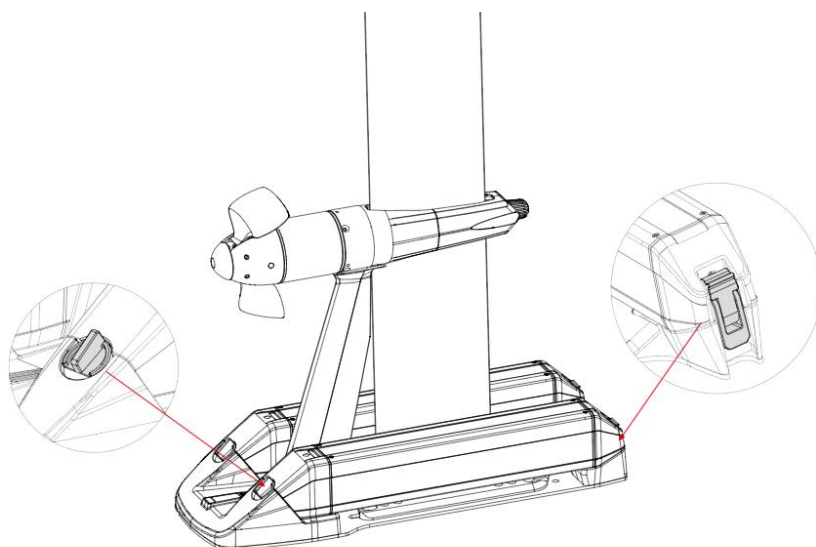
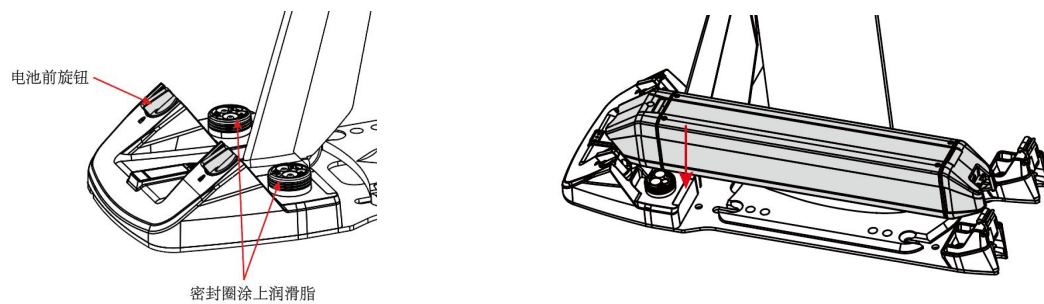
6. Installed mast clamp assembly: same as push back installation



7. Locking mast: same as push back installation

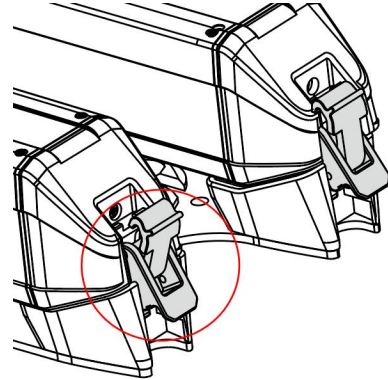
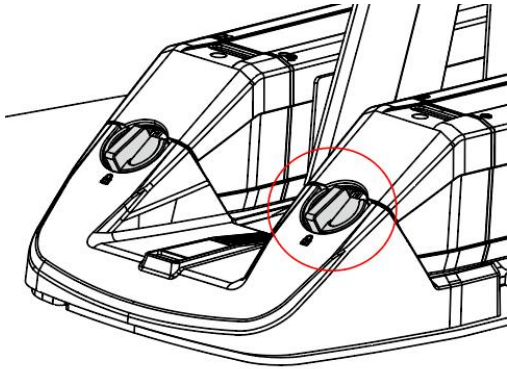


8. Install battery: same as push back installation

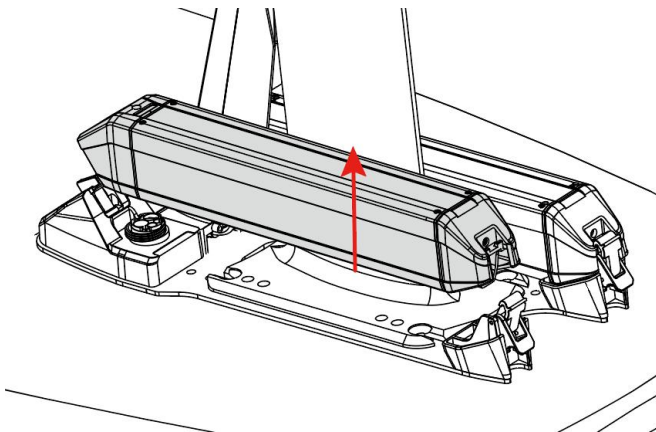


2.3 Product disassembly steps

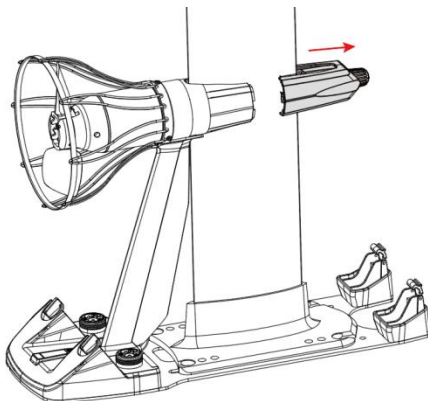
1. **Unlock the battery:** unlock the front buckle of the battery, and then unlock the rear end of the battery;



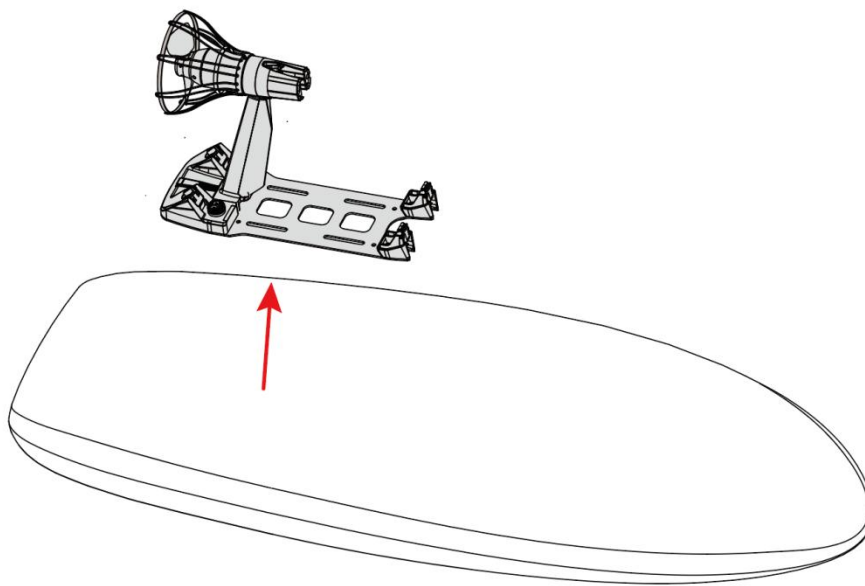
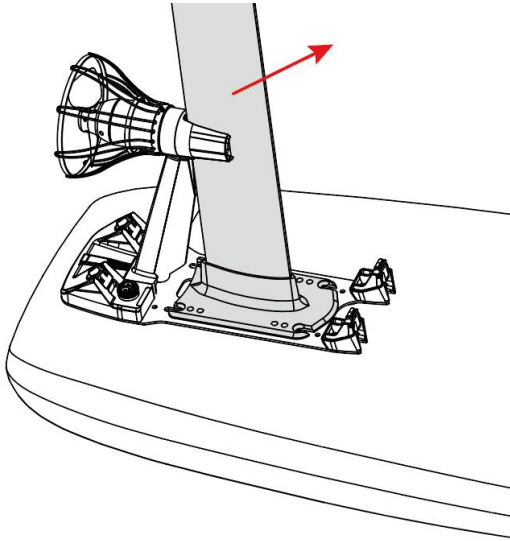
2. **Remove the battery:** Pull the battery upward, and remove the other battery in the same way.



3. **Remove the forward mast clamp assembly:** Remove the forward mast clamp with a wrench.



4. Remove mast and powertrain: Remove mast fixing bolts and remove mast and powertrain.



matters need attention

1. Ensure that the equipment is powered off before all operations to avoid injury caused by motor mis-start.
2. Before installation, carefully check the appearance of the parts. If there is any damage, do not use it to avoid affecting the performance of the equipment or causing safety risks.
3. The sealing ring should be coated with grease evenly to ensure the sealing effect and prevent water damage to internal parts.

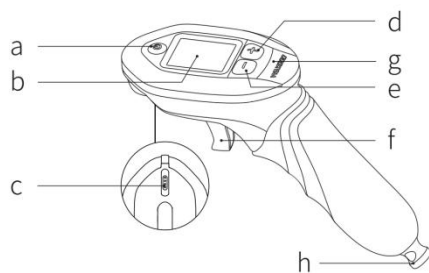
4. Ensure accurate positioning and firm fixation of mast, mast clamp assembly and battery during installation to avoid loosening and falling off during use.
5. When changing the folding propeller, it is necessary to confirm that the thread is aligned before rotating to avoid damage to the thread by forced operation.
6. When disassembling parts, tools should be used in a standard way to avoid damaging bolts, screw holes and other structures.

4. Product usage

3.1 Introduction to remote control usage

Multifunctional remote control

The multifunctional remote control features an ergonomic design with an LCD display interface. It shows real-time information including the remotes battery level, flight speed, gear settings, GPS signal status, and Bluetooth connection status. The device offers multiple gear adjustments, which can be easily performed using the "+" / "-" buttons on its speed control panel.



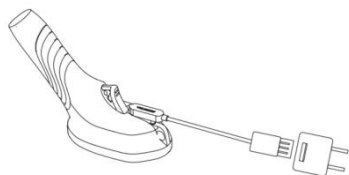
- a. Power button (return button) b. Display screen c. Magnetic charging port d. Speed gear "+" (up button)
e. Speed gear "-" (down button) f. Trigger (confirm button) g. Indicator light h. Battery magnet

Multi-function remote control on/off

Long press the power button of the remote control for 3 seconds to turn it on/off.

Multifunctional remote control charging

1. Insert one end of the remote control charging cable into the USB charger, and connect the magnetic charging connector to the remote control. The charging connector will automatically adsorb and charge.



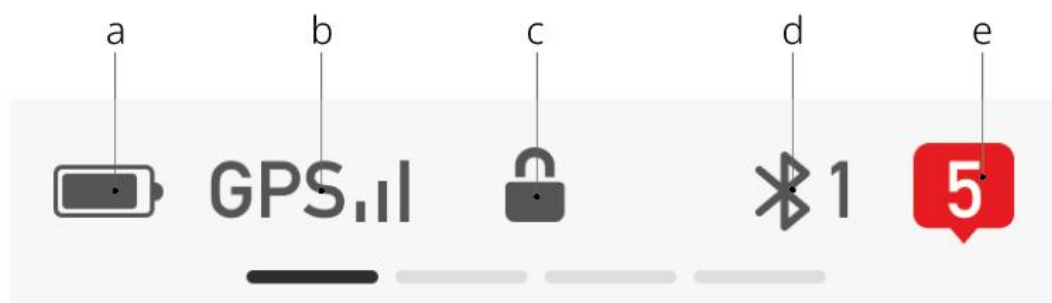
2. When the remote control is charging normally, the bottom indicator light will be on for about 2 hours (5V/2A charger).

* Warm reminder: when the power of the remote control is less than 20%, an alert box will appear. Please charge it in time.

Multifunction remote control connection

1. At the same time, press the power button and speed "-" button of the remote control for 2 seconds to open the Bluetooth connection management interface.
2. In the Bluetooth connection management interface, the list of currently available hydrofoil thrusters is displayed.
3. Use the speed gear "+" and "-" keys to select the waterfoil propeller to be connected.
4. Press the trigger to confirm and complete the remote control connection.

Status bar information



a. Remote control power

Battery power of remote control itself

b .GPS

GPS icon, showing the current GPS received signal

c. Whether it is in lock mode;

Indicates whether the remote control is in lock mode;

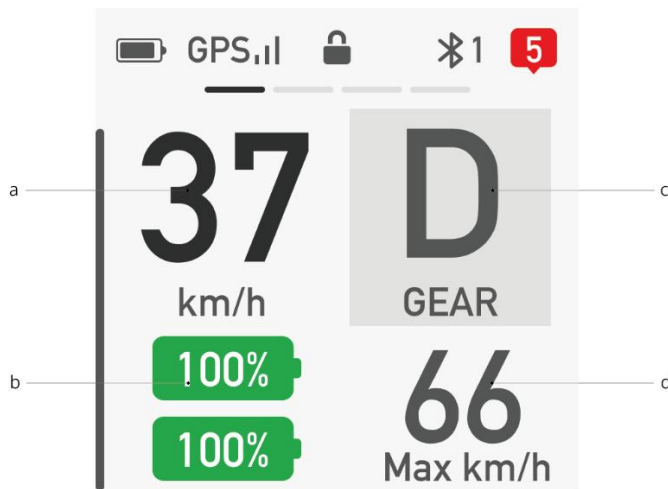
d. PDA

Bluetooth icon, indicating the number of Bluetooth connections;

e. Notice prompts (if any)

If there is a notification message, it will be indicated by the notification prompt icon;

Home screen information



- a. Current speed
- b. Power battery power (if connected to the powertrain)
- c. Current gear
- d. maximum speed

Note: Columns c and d can be adjusted from the Settings-Main Interface Settings menu to display the data you want.

3.2 Introduction to intelligent battery usage

Battery on

Use the remote control magnet to press the battery power button for a long time. The blue light will be on and the power is on successfully.



Battery charging

The battery is automatically charged by the charger. The blue light is on for charging, and the green light is on for full charge.

Battery indicator light instructions

- Charging: Blue light flashing.

- Upgrade: Power light flow running light.
- Trigger button: Yellow light on.
- Query the battery: short press the magnet, and the battery light will be lit.
- Fault: The first red LED light is flashing, and the number of flashes represents different faults.

FCC Statement

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.

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

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.

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Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment should be installed and operated with a minimum distance 20cm between the device and your body.