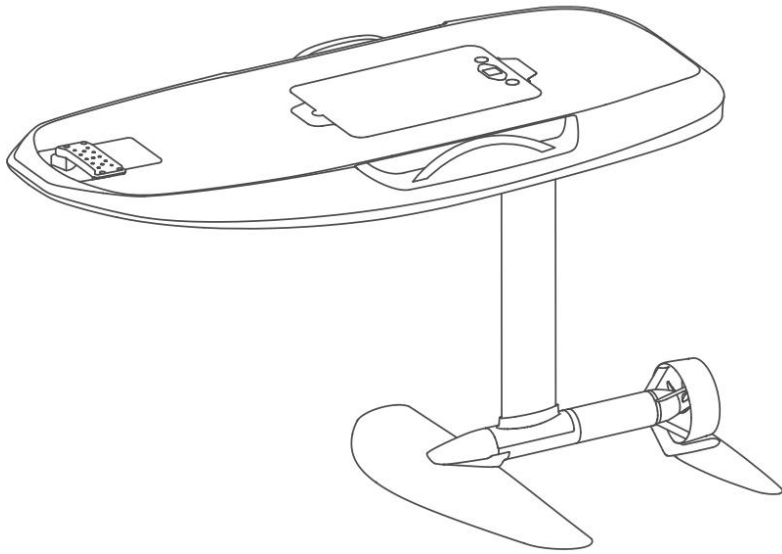


Waydoo Flyer EVO User Manual



Content

I. Disclaimer	1
II. Safety Guidelines	2
III. Product Introduction	5
3.1 Product Overview	5
3.2 Product Components	6
IV. Assembly and Usage	21
4.1 Assembly of efoil	21
4.2 Usage of efoil	25
4.3 Assembly of Outboard Motor	27
4.4 Usage of Outboard Motor	29
V. Troubleshooting Solutions	29
VI. Maintenance	31
VII. After-Sales Warranty Service	35

I. Disclaimer

Please make sure to carefully read the user manual and related warnings before use to understand your legal rights, responsibilities, and safety instructions.

This product is for water sports, and improper use of this product may lead to serious injury or even the risk of death. Users of this product must understand and accept the inherent risks associated with its use. Any misuse beyond the design limitations of this product can result in damage to the product or personal injury. Please make sure to use original accessories or those certified by Waydoo. Once you use this product, you are deemed to have understood, agreed to, and accepted all terms and contents of this document. Users promise to be responsible for their actions and all consequences thereof. As part of Waydoo's ongoing efforts in product development, Waydoo reserves the right to change the components, specifications, or other aspects of this product without prior notice. For the latest information, please visit: www.waydootech.com

WARNING: This product has age restrictions. Minors under the age of 18 must use it under the supervision and guidance of an adult. The safety guidelines only contain parts of the operational safety knowledge; please be sure to carefully read the entire content of the disclaimer and safety operation guidelines. Only operate the product after becoming familiar with its functions by reading the entire user manual. Improper operation of this product may cause serious injury to yourself or others, or lead to product damage and property loss. This product can be used safely only after a period of familiarization, and the operator must have some basic common sense before operating. Do not use parts not provided or recommended by Waydoo, and strictly follow Waydoo's guidance to install and use the product. This guide document includes instructions on safety, operation, and maintenance. Be sure to carefully read all instructions and warnings in the user manual before assembling, setting up, and using the products.

II. Safety Guidelines

Safety Summary

1. Refer to the user manual and watch the official instructional videos to learn how to use this product.
2. This product is intended for use on water only. Take safety measures and wear a life jacket and helmet while using this product.
3. Ensure the water depth is at least 1.2 meters when using this product. Be aware of rocks, plants, and wildlife in the water.
4. Pay attention to your surroundings while using this product. Stay away from the shore and maintain a safe distance from boats and other people.
5. Do not use this product in areas with swimmers or divers.
6. Avoid using this product in water with debris, obstacles, or abundant wildlife.
7. Do not use a product that is damaged or malfunctioning.
8. Do not transport the product directly on top of a car, or it may fall and sustain serious damage.
9. Do not immediately use the product until fully understanding its operating procedures and inherent risks.
10. Do not let others use this product unless they fully understand how to use it properly.
11. Do not remove the propeller guard.
12. Do not attempt to secure or touch the propeller while in the water.
13. Do not remove the battery while the product is in the water.
14. When the system is powered on, keep your body, fingers, and toes away from the propeller. A rotating propeller may cause serious injuries or even threaten life. handlebar with care.
15. Any contact with the power kit, front wing, or stabilizer while in the water may cause serious injury or even endanger life. handlebar with caution.
16. Do not use this product in adverse weather conditions, and monitor weather changes while using the product.
17. Always use this product stably and safely. Avoid dangerous maneuvers such as speeding or sharp turns.
18. Ensure that the weight limit of the product does not exceed 100 kg during use.

Things to Know Before Use

Before using this product, inspect it to ensure that waterproof parts (e.g., connectors, power batteries, and mast heads) are not damaged, the power and control systems are working properly, the battery is fully charged, and the bolts on all components are tightened. Do not use a damaged product.

1. Check if the power unit connections are secure and bolts are fastened.
2. Ensure that the propeller and guard are undamaged and intact, and carefully remove any sand or other debris.
3. Install the smart battery in the designated location.
4. Make sure the smart battery is securely installed and the battery knob is tightened

in place.

5. Confirm that the product is undamaged and can function properly before use.

3. Special Warnings

To prevent potential injury and damage, be sure to follow these guidelines.

4. Use only original accessories or those certified by Waydoo. Non-original accessories can jeopardize the safe use of the product.
5. Ensure that no foreign objects (e.g., water, oil, sand, or soil) have entered any of the components.

Propulsion Unit

Note: Before use, ensure that the propeller and guard are undamaged. Inspect the propulsion unit and carefully remove any sand or debris with the system powered off.

Warnings:

1. Do not remove the propeller guard.
2. Do not attempt to disassemble, repair, or touch the propeller in the water while the system is on.
3. Keep the propeller away from your body, fingers, and toes when the system is powered on.
4. A rotating propeller can cause serious, even life-threatening injuries. handlebar with caution.

Mast

Note:

1. This product must be used in water at least 1.2 meters deep. Be aware of rocks, plants, or wildlife in the water.
2. Pay attention to the surrounding environment while using the product. Stay away from the shore and maintain a safe distance from boats and other people.
3. Before using this product, ensure that the mast connectors are free of water, sand, or debris (if necessary, use a clean, dry towel to clean them).
4. Avoid impacts to the copper pillars of the mast connector, which can cause surface damage.
5. Prevent damage to the mast head by avoiding impacts.
6. After each use, rinse the ESC cooling compartment with fresh water to prevent debris or shellfish from corroding or blocking the inlet and outlet.
7. Promptly clean the mast DC port to ensure proper contact; replace the port spring if corrosion becomes severe.
8. Carefully rinse the product with fresh water after use.

Warnings:

Any contact with the wing, mast, or propeller while in the water can cause severe, even life-threatening injuries. Be extremely careful.

Smart Battery

Warnings:

1. Do not disassemble or modify the smart battery for other purposes; otherwise, the warranty will be void.
2. Do not disassemble, puncture, strike, or drop the smart battery.
3. Do not handle the smart battery with wet hands.
4. Do not install or remove the smart battery in the water.
5. Do not discard the smart battery carelessly.
6. Do not expose the smart battery to direct sunlight, place it near a fire source, or use it in environments with temperatures exceeding 60°C (140°F). Use a standard-compliant charger to charge the battery.
7. Store the smart battery in a secure location to prevent children or animals from directly accessing it.
8. Before use, check that the smart battery is functioning correctly. A malfunctioning battery may cause damage, electric shock, fire, or even life-threatening situations.
9. If you need to store the smart battery for more than a month, keep the battery level at 40-60%.
10. Transporting the smart battery must comply with relevant local laws and regulations.

Restrictions and Local Regulations

Do not use this product in areas where there are swimmers or divers. Operation of this product is strictly prohibited in traffic-restricted zones. Always follow local laws and regulations.

Post-Use Instructions

1. After use, press and hold the remote power button for 3 seconds to turn off the remote.
2. Take the product out of the water, and use the operating magnet to press and hold the smart battery power button for 3 seconds to turn it off. Once confirmed off, unlock the battery by loosening the locking knob and remove the smart battery.
3. Unscrew the bolts securing the front and rear wings and remove the wing.
4. Unscrew the bolts between the mast and board, and disassemble the power unit.
5. Rinse the board and other components with fresh water to remove sand and dust.
The propulsion unit and mast together are called the power unit.

Safety Compliance

This product complies with local safety regulations and certification standards.

Download Waydoo app

In order to better manage and enjoy the use of efoil, it is recommended that you go to the Apple Store or Google Store to download and install the Waydoo app. This app will give you more features and control options for a better experience.



iOS



Android

II. Product Introduction

3.1 Product Overview

The Waydoo Flyer EVO series is Waydoo's new generation of products. This series includes components like the smart battery, propulsion unit, mast, board, remote, wing, charger, inverter, scooter handlebar, and outboard motor. Users can freely choose and combine these components based on their specific usage needs to create a complete product.

Components:

- Mast
- Propulsion Unit
- Board
- Smart Battery
- remote
- remote Charging Cable
- Charger
- Inverter
- Front wing
- Rear Wing
- Power System Components
- Wheels
- Board Bag
- Battery Bag
- Outboard Motor
- Scooter handlebar



*Actual parts may vary depending on version you select.

3.2 Product Combinations

Users can choose different product combinations depending on the usage scenario. For example, the power unit has two assembly combinations: efoil and outboard motor. With simple assembly and disassembly, users can switch between different products quickly. The following provides an introduction to the efoil and outboard motor.

Combination	Component	Optional Version
Efoil	Mast	Mast 69 cm
		Mast 89 cm
		Mast 79 cm (Carbon Fiber)
		Mast 49 cm
	Propulsion Unit	High-Performance Propulsion Unit
		Standard Propulsion Unit
	Smart Battery	
		Smart Battery 18
		Smart Battery 23
	Remote	EVO remote
	Charger	600W Charger
	Charging Inverter	1500W Charging Inverter
	Board	EPP Board
		Multiple color options available
		EVO MAX Board
		EVO MAX Plus Board
		EVO PRO Board (Cerulean Blue)
		EVO PRO Plus Board (Cerulean Blue)
		EVO PRO Board (Surging Gray)
		EVO PRO Plus Board (Surging Gray)
		EVO Master Plus Board (Dawn)
		EVO Master Plus Board (Ablaze)
	Front wing	Voyager wing
		Voyager wing (Fiberglass 1500)
		Voyager wing (Carbon Fiber 1500)
		Voyager wing (Fiberglass 1100)
		Voyager wing (Carbon Fiber 1100)

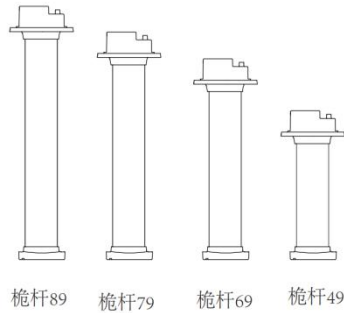
Combination	Component	Optional Version
	Glider wing	
		Glider wing (Fiberglass 1500)
		Glider wing (Carbon Fiber 1500)
	Rear Wing	Glider Rear Wing 320
	Power System Component	Standard Propeller
		Foldable Propeller
		Water Jet Pump
	Accessories	Board Bag
		Battery Backpack
		Wheels S
		Wheels L
Efoil Scooter		Scooter handlebar
Outboard Motor		Mounting Device and Special Shaft Rudder Mast

3.2.1 Waydoo Flyer EVO

The Waydoo Flyer EVO is an electric water sports device consisting of a board and power unit. Equipped with a suitable wing and power system component, users can lift the board out of the water and enjoy the thrill of gliding above the surface, riding waves, and navigating currents. We've meticulously refined the design in the areas of fluid dynamics, structural design, and intelligent control. Through rigorous testing and continuous optimization over several years, we've dedicated ourselves to providing users with an exceptional flying experience.

3.2.1.1 Component Introduction

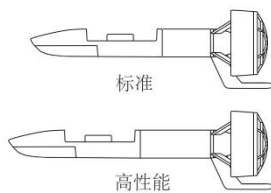
Mast



The mast is available in four different lengths and can be flexibly paired for different use cases.

- The 69 cm mast is suitable for beginners using it in calm waters, offering better maneuverability and control.
- The 79 cm mast is a mid-range length that suits a wide range of users.
- The 89 cm mast is more suitable for advanced users on the ocean, as it allows the board to rise higher above the water, easily gliding over waves.
- The 49 cm mast is ideal for training schools, rentals, and similar scenarios. It's easier to handlebar and operate.

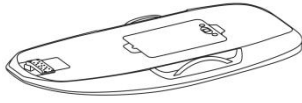
Propulsion Unit



We offer both standard and high-performance versions for the propulsion unit.

- The high-performance version delivers a higher top speed, stronger power, and greater efficiency. Paired with the appropriate wings, it can reach speeds of up to 50 km/h, suitable for users seeking to push their limits.
- The standard version is more lightweight, portable, and offers a wide range of speeds, meeting most users' needs. The high-performance propulsion unit can carry up to 130 kg, while the standard version can support up to 90 kg.

Board



The EVO boards come in three sizes: EVO MAX (130L), EVO PRO (90L), and EVO Master (75L).

- Both EVO PRO and EVO MAX boards are made of EPP material, which is more durable and impact-resistant than carbon fiber, greatly enhancing safety. With a capacity of 90 liters and 130 liters and lengths of 154 cm and 177 cm, respectively, they offer good value for the money. The EVO PRO board can be fitted with an inflatable ring, providing greater buoyancy, which is very suitable for beginners during their practice stage.

The Master boards come in two visual options and are made of composite materials, providing higher board strength, better handling, and an enhanced aesthetic. With a capacity of 75 liters and a length of 144 cm, the Master boards are more agile and suitable for advanced users. They are lighter, smaller, and easier to carry.

All versions of the board are equipped with ergonomically designed handlebars on the front for convenient and stable hand support during takeoff, helping users with better control and balance.

Boards with "PLUS" in their name feature built-in sensors like GPS, ultrasonic, infrared communication, and Bluetooth, allowing more intelligent features. Compared to standard boards without GPS and sensors, PLUS smart boards offer the following benefits:

1. Improved remote connection stability: When the Bluetooth device embedded in the mast sinks below the water surface, the board's built-in Bluetooth ensures stable connectivity and data transmission.
2. More accurate positioning and speed data via the board's GPS. The standard board relies on the GPS module in the remote, which can yield data discrepancies while riding.
3. Built-in sensors measure the board's height above the water and provide attitude stabilization support.
4. The Waydoo Flight Management System, using sensors installed inside the board, senses the surrounding environment and helps users control flight.

Note: The board has built-in antennas. Avoid blocking or shielding them with external objects like the body, metal, or water, as this may affect the antennas' reception and transmission performance.

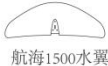
Front Wing



G1500水翼



航海1100水翼



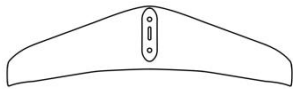
航海1500水翼

The Voyager series wings offer excellent flexibility, providing a better sense of involvement in sports.

- The Glider wing, a high-aspect-ratio foil, is efficient, energy-saving, easy to handlebar, and stable. It provides longer endurance and is suitable for long-distance cruising.
- The Voyager wing 1500 has ample lift while balancing flexibility.
- The Voyager wing 1100 is faster and more agile.
- The Glider wing 1500 offers longer endurance and better stability, making it the best choice for beginners.

Fiberglass vs. Carbon Fiber: Fiberglass is more affordable but offers slightly less strength.

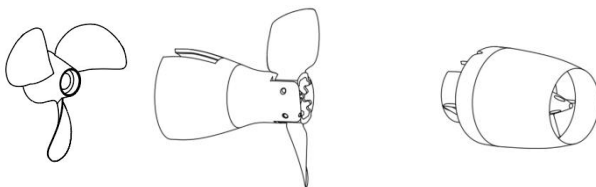
Rear Wing



The rear wing features small fins on both ends to enhance directional stability.

- It provides pitch stability with balanced performance, suitable for various wings and application scenarios.
- Using an extension rod improves stability.

Power System Components



Three power system components are available: standard propeller, foldable propeller, and jet pump set.

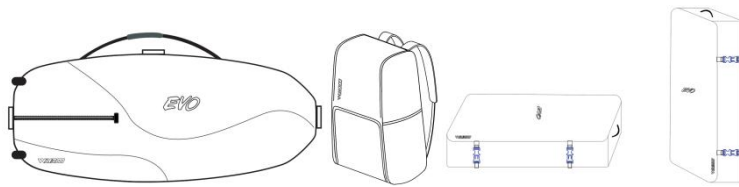
- **Standard Propeller:** Comes with a propeller cover and protective net, fulfilling most users' needs.

- **Foldable Propeller:** Offers high efficiency and power, ideal for small boards and long masts. In wave areas, it allows free riding and automatically closes the blades to reduce drag when the throttle is released.
- **Jet Pump Set:** With no exposed propeller, it is safer and provides smooth and gentle power output, making it the perfect choice for beginners.

Power Unit

The power unit consists of the mast, propulsion unit, power system components, wing, and rear wing. In normal use, the propulsion unit and power system components provide the necessary power for flight, while the wing and rear wing offer lift and stability.

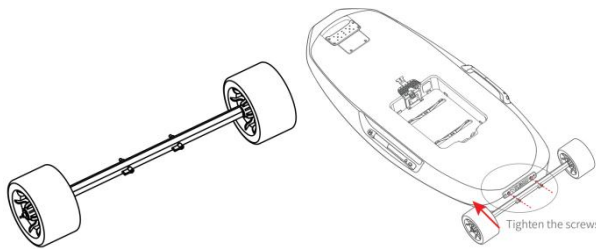
Board Bag and Battery Backpack



A standard board bag is designed specifically for the Master board, while other boards have optional bags available for purchase.

- We also provide battery backpacks and power unit storage bags, allowing you to conveniently carry your equipment to the water.

Wheels



- **S Size:** Install on the EVO PRO board for easier transportation.
- **L Size:** Install on the EVO MAX board for easier transportation.

As shown in the diagram, secure the Wheels to the board using two hand-tightened screws. While using the Wheels to transport the board, avoid installing or placing the battery on the board when traveling over bumpy ground or steps, as this may damage the wheel axle.

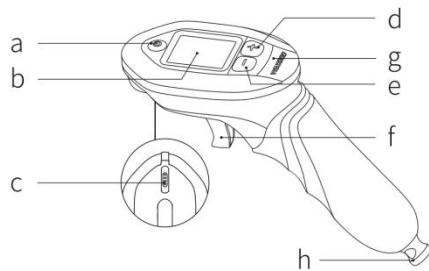
Scooter handlebar



The scooter handlebar is designed for the MAX board and allows the combination into a efoil scooter, providing a quick and convenient setup.

- It works similarly to the efoil in operation but offers a different experience. The added hand support helps beginners better control the board, reducing the difficulty of efoil training.
- The scooter handlebar comes with a built-in remote, which can be connected to the efoil.

EVO Remote



The ergonomically designed EVO remote features an LCD screen displaying information such as the battery levels of the remote and smart battery, speed, gear position, GPS signal, and Bluetooth connection status. It offers 24 speed levels that can be adjusted using the speed gear "+" and "-" buttons.

Remote Components:

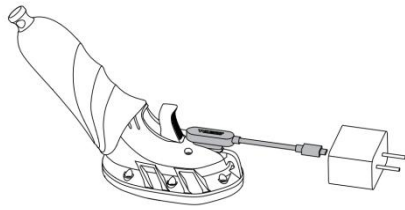
- a. Power Button (Back Button)
- b. Display Screen
- c. Magnetic Charging Port
- d. Speed Gear "+" (Scroll Up Button)
- e. Speed Gear "-" (Scroll Down Button)
- f. Trigger (Confirm Button)
- g. Indicator Light
- h. Magnet

Helpful Tips:

- The remote comes with two trigger options of different travel lengths. The standard version is the long-travel trigger. For other triggers, consult and purchase a separate trigger component.

How to turn the EVO remote on or off

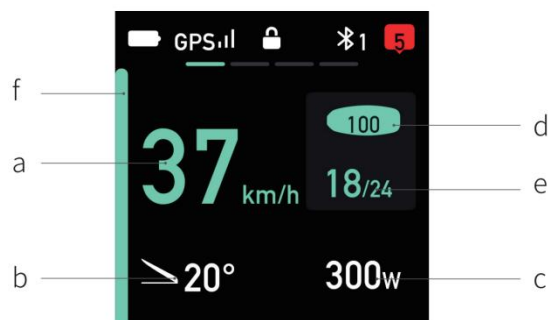
Press and hold the power button for 3 seconds.

EVO remote Charging

1. Connect one end of the charging cable to the USB charger and the other end to the magnetic charging port on the remote. The port will attach magnetically and start charging.
 2. When charging normally, the indicator light on the bottom will light up, and charging will take about 1.5 hours.
- **Note:** When the remote battery is below 20%, a warning box will appear, indicating that it needs charging.

EVO remote Connectivity

1. Press and hold the power button and "-" button for 2 seconds to open the Bluetooth connection management screen.
2. The screen will display a list of efoils available for connection.
3. Use the "+" and "-" buttons to select the desired efoil.
4. Press the trigger to confirm, completing the remote connection.

EVO remote Display Interface**Main Interface:**

- a. Current Speed
- b. Current Inclination
- c. Current Power
- d. Battery Level
- e. Gear Information
- f. Throttle Indicator

Helpful Tips:

1. Current Tilt Angle Symbol Color:
 - Tilt angle $\geq 30^\circ$: Red
 - $15^\circ < \text{Tilt angle} < 30^\circ$: Yellow
 - $0^\circ \leq \text{Tilt angle} \leq 15^\circ$: Green
2. Color of Battery Level Symbol:
 - Yellow: No battery data
 - Green: Battery data available
 - Red: No battery data, Bluetooth not connected
 - The battery level symbol will flash when the battery power is below 20%

Status Bar



- a. remote Battery: Remaining battery level of the remote.
- b. GPS Signal: Current GPS signal strength.
- c. remote Lock Mode Status: Indicates whether the remote is in lock mode.
- d. Bluetooth: Displays the number of Bluetooth connections.
- e. Notification Prompt: If there are notifications, the prompt icon will appear, with numbers indicating the message count.

Helpful Tips:

1. For safety, if the trigger remains in its initial position for more than 7 seconds, the remote throttle will lock. Pressing the trigger at this point will not cause the propeller to spin. Press and hold the "-" button for around one second to unlock it.
2. While in the settings mode, the propeller will not spin even if the trigger is pressed.

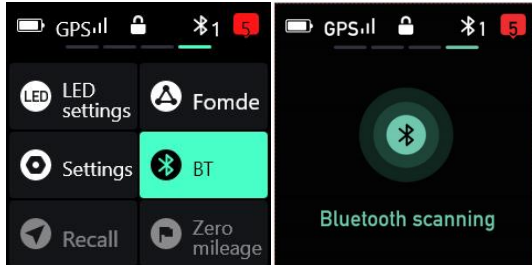
Menu Operations

In settings mode, short-pressing the power button will switch to the main interface or act as a back button. The trigger is used as a confirm button. The "+" and "-" buttons are navigation buttons for

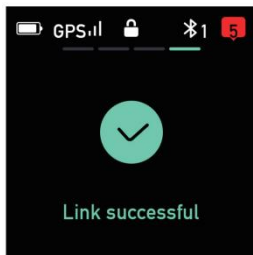
scrolling up and down.

Bluetooth Connection Instructions:

1. In the main interface, press the power button to navigate to the fourth screen.
2. Press the trigger to confirm and enter the current screen.
3. Use the "+" and "-" buttons to navigate to "BT" Bluetooth settings.
4. Press the trigger to confirm and enter the Bluetooth scanning screen.



5. Bluetooth scanning (about 3 seconds) will display the current list of available efoils (efoil names contain the mast serial number). Use the "+" and "-" buttons to select the desired efoil.
6. Press the trigger to confirm. The remote screen will indicate "Linking," and once the connection is successful, it will display "Link successful."



7. If this is the first time pairing with the remote, the screen will ask you to confirm with the efoil battery. Use a magnet to briefly press the efoil battery power button to confirm.
8. After successfully pairing, the remote will automatically return to the main interface.

Helpful Tip: If you hold the trigger while powering on, the throttle range may shrink or the confirm button may stop working. If this happens, release the trigger, restart the remote power, or press and hold the "+" button to enter the trigger calibration screen and follow the prompts to calibrate the trigger.

Other Menu Interfaces

1. Flight Data Interface:

- a. Highest speed of the current session.
- b. Total distance traveled in the current session.
- c. Average power of the current session.
- d. Power consumed in the current session.

2. Notification Interface:

Displays detailed notifications, prompts, and exception messages that require user awareness or action. This screen will not appear unless these messages exist. If so,

pressing the power button will switch from other screens to this notification interface.

- The notification screen shows the existing notification, prompt, or exception messages. If there are multiple messages, use the "+" and "-" buttons to choose one. Pull the trigger to view detailed content for the selected item.
- Some messages may require user actions like confirming, canceling, or hiding. Once you open a message, use the "+" and "-" buttons to select an action and pull the throttle trigger to confirm.
- Notification text may appear in different colors.

3. **Menu Interface:**

Press the power button briefly to switch to the menu interface from other screens.

- 1. Return Home
 2. Reset Mileage
 3. LED Settings:
 - Mode 1
 - Mode 2
 - Mode 3
 4. Flight Mode (F Mode)
 5. Settings:
 1. **Control Sensitivity:**

The remote has multiple preset throttle curves to meet different user needs. You can choose one as the current throttle curve in the control sensitivity settings.

 - Balance Mode: Seeks a balance between quick response and wing speed stability, filtering out some high-frequency or significant throttle fluctuations.

2. Battery Alerts

1. remote Battery Alerts:
 - When the remote battery level is below the set value, the system will notify the user via message alerts, vibrations, etc.
2. Power Battery Alerts:
 - If connected to the power unit, and the power battery level drops below the set value, the system will notify the user via message alerts, vibrations, etc.
3. Speed-Limit Battery Level:
 - If connected to the power unit, and the power battery level drops below the speed-limit level, power output will be restricted.

3. Automatic Shutdown

- When the remote is in lock mode and there is no activity within the set time frame, it will shut down automatically.

4. Gear Settings

1. Maximum Gear Setting:
 - Sets the highest gear level that the "+" button can reach in control mode.
2. Gear Step Setting:
 - Can be set to 1, 2, or 4. Once set, using the "+" or "-" button in control mode will increase or decrease the gear level by the specified step until reaching the maximum or minimum gear.

5. Unit Settings

1. Temperature:
 - Can be set to Celsius or Kelvin.
2. Speed:
 - Can be set to kph, mph, or m/s.
3. Distance:
 - Can be set to km or ft.

6. About

1. remote Information:
 - a. Firmware Version
 - b. remote Bluetooth Firmware Version
 - c. SN
 - d. Signal Strength
2. Power Unit Information:
 - a. Master Unit Firmware Version
 - b. Power Unit SN
 - c. Master Unit Bluetooth Firmware Version
 - d. ESC Firmware Version
 - e. ESC SN
 - f. ESC Temperature
3. Battery Information:
 - a. Battery Firmware Version
 - b. BMS Firmware Version
 - c. Battery SN
4. Board Information:
 - a. Board Firmware Version
 - b. Board SN

5. Language Settings

- Sets the remote display language. Currently, only English is supported.

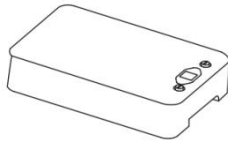
6. Bluetooth

- Enter to scan for Bluetooth devices and display the scanned Bluetooth list.

remote Firmware Upgrade

1. Turn on the remote and connect it to the efoil. Access the app's upgrade page, and if an update is available, choose the desired remote firmware to upgrade.
2. During the upgrade process, the remote screen may go blank for a few seconds. Once the upgrade is complete, the remote will restart.

Smart Battery



The Waydoo smart battery is specifically designed for the Waydoo Flyer EVO series. It provides energy and is composed of lithium battery cells, a cell management module, and a battery management module. The battery is equipped with an LCD display, providing a user-friendly interface. With two capacity options (36Ah and 45Ah), it caters to various user needs regarding weight and endurance.

After assembling the battery with the board and power unit, it can supply power to the power unit once powered on. It will also receive data from the power unit and display information about the battery and power unit on its screen. The battery features a cable-free design, making it easy to install.

1. Button Introduction

1. "S" Button: Switch key (long press in some interfaces to return).
2. "O" Button: Power key (acts as a confirm key in some interactions).

2. Interface Introduction

Screen	Description
Main Interface	Current time (shows remaining charging time when charging), button operation sensing prompt
Other Interfaces	Button operation sensing prompt, operational prompts

1) Main interface

Other interfaces will automatically return to the main interface if there is no operation for about 5 seconds.

Battery Status	Main Interface Display
Discharge/Standby	Battery level, voltage, current, discharge/standby status
Charging	Battery level, temperature, charging current, charging status
Inverter Discharge	Battery level, discharge power, AC power parameters, AC power output switch

2) Common Settings Interface (Three Illustrations, With Instructions)

- After entering the menu interface, briefly press the power button using a magnet.
- The common settings interface explains two practical charging functions. Refer to ...

3) Message Interface (If Any Messages)

- After entering the menu interface, briefly press the power button using a magnet.

4) Menu Interface

- After entering the menu interface, briefly press the power button using a magnet.

3. How to Turn On/Off

Power On Procedure:

- When the battery is off, use a magnet to press and hold the power button for 3 seconds. The battery will wake up and display the startup logo, followed by a progress bar. Once the progress bar completes, the main interface will appear, indicating a successful startup.
 - If the magnet moves outside the sensing range (about 1 cm) during startup, the startup process will stop, and the screen will turn off.
 - If the battery is installed in the efoil or connected to an outboard motor or charging inverter plug, the battery will supply power after startup.
 - If the battery malfunctions or isn't connected to any device, it won't supply power after startup.

Power Off Procedure:

- When the battery is on and displaying the main interface, use a magnet to press and hold the power button for 3 seconds. The screen will display the shutdown logo and then turn off, stopping the battery from supplying power.

4. Battery Use

- When the battery is on and functioning normally, it will supply power to external devices. If the battery malfunctions, is drained, or is disconnected from an external device, it will stop supplying power and display a status message.

5. How to Check Battery Level

- When the battery is off, briefly press the power button using a magnet to wake it up. After displaying the logo screen, the remaining battery level will appear. If no further actions are taken within 5 seconds, the screen will turn off.
- When the battery is on and working normally, the screen remains lit, and the battery level is directly visible.

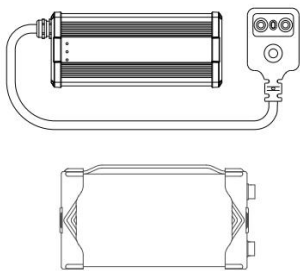
6. How to Charge the Battery

1. Connect the charger to a power outlet, then connect the charging cable to the battery.
2. Briefly press the charging cable's start/stop button once to begin charging.
3. During charging, briefly press the start/stop button once to stop charging.
4. After the battery is fully charged, the screen will automatically turn off.

Notes:

- If the battery temperature exceeds 45°C when charging begins, it won't start charging. Charging will resume automatically once the battery cools below 45°C. If the temperature is below 0°C, charging will also not begin. Move the battery to an appropriate temperature, and charging will automatically start once the battery warms up above 0°C.
- Disconnecting the charger from the battery during charging will stop the process and return the battery to standby mode.

Charger/Charging Inverter



To accommodate different user needs, we offer two options: a 600W charger and a 1500W charging inverter.

Charger Components:

1. Power Cable
2. Charging Cable
3. Start/Stop Button
4. Plug Indicator Light
5. Charger Indicator Light

Note: The charger is not waterproof. Please keep it dry and away from water during storage, transportation, or use.

Charger Indicator Lights:

1. Power Indicator Light
2. Status Light
3. Fault Light

Indicator Light Status	Description
Steady Blue Light	Charger is in standby mode
Flashing Red Light	Charger has encountered a fault

Indicator Light Status	Description
Flashing Green Light	Charging is in progress

Note: Abnormal charging status includes: overvoltage protection, short circuit protection, overcurrent protection, overheating protection, etc.

Status light description

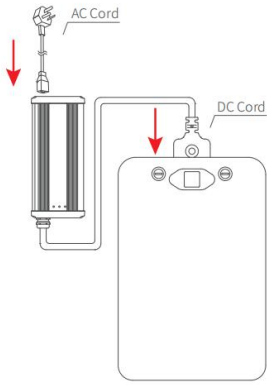
1. Charger indicator light description

Indicator Light Status	Description
Steady Blue Light	Charger is in standby mode
Flashing Red Light	Charger has encountered a fault
Flashing Green Light	Charging is in progress

2. Charging cable plug indicator light description

Indicator Light Status	Description
Breathing	Standby mode or fully charged
Steady Light	Charging in progress
Fast Breathing	Maintenance in progress
1 Flash	Charger output undervoltage/overvoltage protection
2 Flashes	Battery communication timeout
3 Flashes	Charger overtemperature protection
4 Flashes	Charger fan blockage warning
5 Flashes	Charger communication failure warning
6 Flashes	Charging timeout warning
8 Flashes	Charger overcurrent/short-circuit protection
10 Flashes	Charging head overtemperature protection

600W Charger Usage



Note: It is recommended to fully charge the battery for the first use using the official charger.

1. Place the smart battery in a cool, dry place, away from flammable or high-temperature items.
2. Connect the charger's charging cable plug to the battery, press the plug to ensure a secure connection, and place the battery face-up on the ground.
3. Connect the charger's power cable to the charger's power port, then plug the power cable into a wall socket.
4. Briefly press the start/stop button on the charging cable to begin charging.

Charging Start/Stop Button Indicator Table:

- When the charger status indicator light flashes green, and the plug indicator light on the charging cable shows a steady blue light, the battery is charging.
- When the plug indicator light switches to a breathing/flashing pattern, the battery is fully charged.

How to Stop Charging:

- When charging, briefly press the start/stop button once to stop charging. The battery screen will turn off shortly after.
- If you disconnect the charging cable plug from the battery while charging, it will stop charging, and the screen will turn off shortly after.

Emergency Charging Method:

If the charger or battery communication sensors malfunction, use the emergency charging method.

1. When the battery is not connected to any external device, power it on to enter standby mode.
2. Connect the charger's power cable to the power port and plug it into the wall socket.
3. Select the "Manual Charging" option from the battery settings menu.
4. Briefly press the start/stop button twice, then press and hold for 3 seconds to enter emergency charging mode.

Charger Firmware Update:

When the battery firmware is up-to-date, it will detect the charger's firmware version and prompt the update status on the screen. Follow the screen instructions to complete the firmware upgrade.

Useful Charging Functions:

The battery provides two practical charging features. Refer to...

- The selectable maximum power list will vary depending on the charger.
- This setting is only effective during the current startup and will reset to the charger's maximum output power upon the next startup. This feature only works when communication between the battery and charger is normal (it will not work in manual charging mode).

If the current battery level is greater than the maximum set charge capacity, the battery will immediately indicate charging status.

- This setting is only effective during the current startup and will reset to 100% full charge at the next startup.

Battery Charging Maintenance:

During charging, if the battery cells have a significant voltage difference, the charging status will indicate maintenance mode.

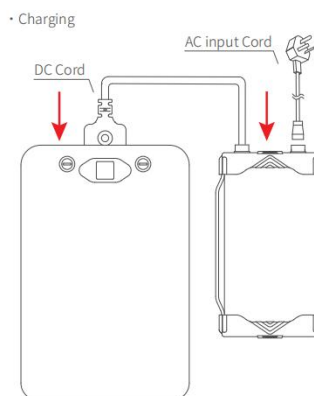
- This mode suggests that the voltage difference between the battery cells is substantial and requires maintenance. Users can stop charging and continue using the battery. The next time charging begins, it will complete maintenance.

Charging Inverter:

The charging inverter can charge the smart battery and connect to it to output AC power (110V/220V) to external devices. This allows users to use the smart battery to power other devices outdoors. It has a stylish, compact design with detachable input/output cables, making it easy to carry.

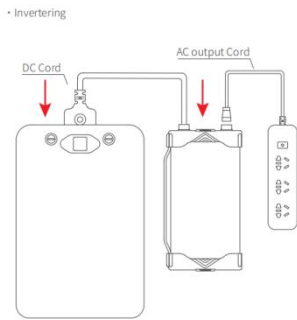
Charging Method:

The charging process is similar to that of the 600W charger. Please refer to it.

**Inverter Interface Introduction****How to Connect the Inverter**

Charging Cable/Inverter Cable

How to Use the Inverter Function



1. **Connect the AC Output Cable:** Attach the AC output cable to the inverter's AC port and tighten the round black latch clockwise.
2. **Connect the DC Power Cable:** Attach the DC power cable to the inverter's DC port, tighten the round black latch clockwise, and connect the plug to the smart battery.
3. **Power On the Battery:** The battery will enter discharge standby mode and display the common settings interface, where you can set the AC voltage and frequency. If the battery is on the main interface, it will show the current voltage and frequency. If these settings are correct, briefly press the battery power button once to start discharging. If settings are incorrect, enter the common settings interface to make adjustments.

Pause External Power Supply:

- During the inversion process, briefly press the start/stop button on the charging cable to pause external power supply.

Helpful Tips:

- During the inversion process, if the inverter detects that external devices are consistently drawing over 1500W, the battery will indicate overload protection and stop supplying external power.
- If the current recognizes the inverter connection, it will switch to the inverter's control and display interface.

Main Interface Displays:

- Whether AC is in output mode
- Voltage type of the currently connected socket (110V/220V)
- Current output power

Second Interface Displays:

- Set AC output voltage
- Set AC output frequency
- Current AC output voltage and current
- Current inverter fan speed

Inverter Control Interface:

- From the main inverter interface, briefly press the "O" button to bring up the inverter

switch control. Press and hold the "O" button to turn on AC output.

AC Output Control:

- Press and hold the button on the inverter connector for 3 seconds to activate AC output, and the battery interface will also show the output status.
- In AC output mode, briefly press the button on the connector to turn off the AC output.

3.2.2 Outboard Motor Assembly

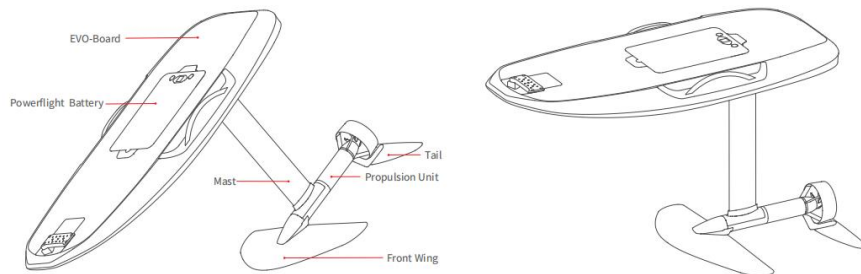
By detaching the Waydoo Flyer EVO's power unit and installing it onto the outboard motor assembly, you can create an electric outboard motor.

Components:

- **Steering Arm:** Used for directional control.
- **Power Cable:** Transfers power to the motor.
- **Hanging Bracket:** Secures the outboard motor to the boat.
- **Controller:** Manages and controls the motor functions.
- **Power Brace Rod:** Supports and stabilizes the motor.

IV. Assembly and Usage

4.1 efoil Assembly



4.1.1 Pre-Assembly Check

1. Inspect the battery and mast power interface terminals to ensure they are securely fastened, clean, and dry, with no significant rust or dirt. Tighten loose terminals with a tool. Clean rust or dirt with alcohol and wipe dry with a clean towel before using. Replace terminals if the rust or dirt is severe.
 - **Note:** Abnormal terminals can cause overheating, leading to structural deformation, affecting waterproofing, and potentially impacting product endurance and power performance.
2. Check the battery's locking pins to ensure they are in the groove.

4.1.2 Tool Preparation

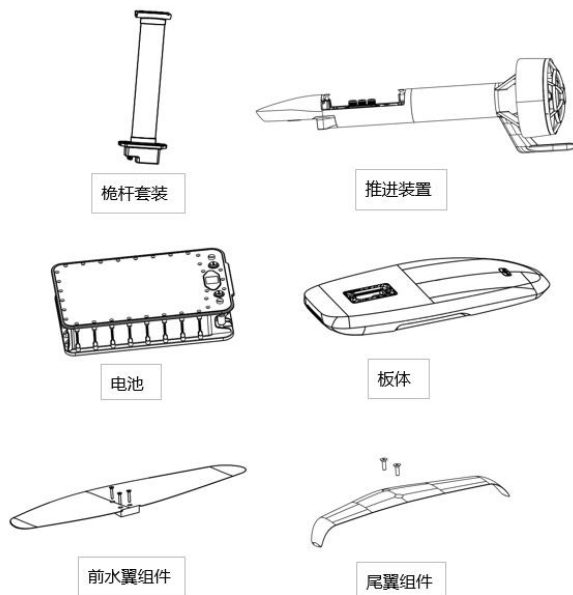
- Flat-head wrench, magnet, L-shaped wrench, or electric screwdriver (optional)

Helpful Tips:

1. The L-shaped wrench is stored inside the rubber plug in the board's battery compartment. After use, return it to the rubber plug.
2. The electric screwdriver is not waterproof. Keep your hands dry during use, and avoid contact with water.
3. When tightening screws with the electric screwdriver until it stops rotating, the torque is about 5N.m. Manually turn the handlebar for self-rotation.
4. When removing screws, manually turn the handlebar to loosen the screw, then use the electric function.

4.1.3 Component Preparation

- Mast, propulsion unit, smart battery, board, wing (with 3 M6x35 mounting screws), rear wing (with 2 M6x20 mounting screws). See the component images below:

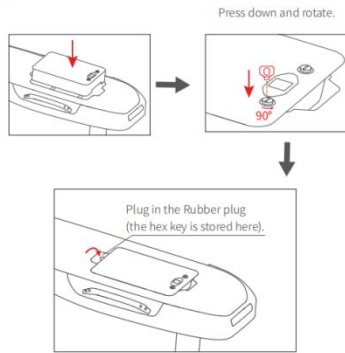


4.1.4 Assembly Steps

Helpful Tips:

- You can choose to install either the battery or the mast first. If you choose to install the mast first, install the front and rear wings before installing the battery to ensure better support and stability during the installation process. If no wing is available, use a stand for support.

1. Install the Battery (Refer to the battery user manual for the full guide):



- **Note:** Before installation, ensure the board's battery compartment and the battery's DC port are free of water and debris. Check that the sensor port in the battery's DC port is also clear of water and debris. Clean and dry them if needed, as these can affect the sensor's optical communication functionality.
1. Place the board face up, hold the battery with both hands, and carefully insert it into the board's battery compartment. Press down to ensure the battery is fully seated.
 2. Use the flat-head wrench on the remote wrist strap to press and turn the two round locking knobs clockwise by about 90 degrees to secure the battery.
 3. Insert the rubber plug into the board's battery compartment.

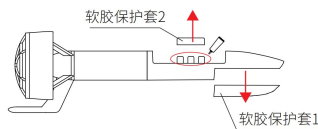
Battery Removal Method

1. Rotate both locking knobs counterclockwise by 90° to the position shown in the image.
2. Remove the rubber plug, press the internal unlock switch with your finger, and lift the battery with both hands.

Note: Follow these steps in the proper order to avoid damaging the product.

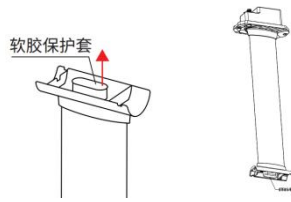
2. Mast Assembly (Refer to the Power Unit User Manual):

1. As shown in the image, remove the three screws securing the soft rubber protective cover 1 on the propulsion unit, then take off the cover. Remove the soft rubber protective cover 2 at the junction of the mast and propulsion unit. Apply an appropriate amount of lubricant to the seal ring if needed.

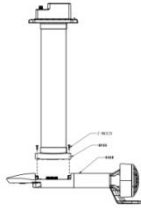


Note: Store soft rubber protective cover 1 properly to prevent losing it.

2. Remove the soft rubber covers from both the mast head and the copper pillar of the mast assembly.



3. Insert the mast vertically and slowly into the propulsion unit, gently rocking it side-to-side to help the installation. Secure it using two M6x20 screws and tighten them (torque: 5-10 N.m).



4. Flip the board over, and insert the mast vertically into the mast mount on the board.
5. Ensure the mast is properly aligned and secure it using two M6x20 screws, tightening them to 5-10 N.m torque.

Note: Avoid frequent disassembly of the mast and propulsion unit to protect the connectors. Only disassemble if necessary.

3. Front and Rear Wing Installation (Refer to the wing User Manual):

1. Install the front wing in the mounting slot on the propulsion unit. Use three M6x35 screws and tighten them with an L-shaped wrench or electric screwdriver (torque: 5-10 N.m).
2. Install the rear wing using two M6x20 screws and tighten them with an L-shaped wrench or electric screwdriver (torque: 5-10 N.m).

Helpful Tips:

1. The mounting design with positioning bosses makes it easier to align the wing during installation.
2. Installing an extension rod with the rear wing can improve stability.

4. Power On/Off Operation

First, turn on the remote and then the smart battery.

5. Connecting the remote

If the remote does not automatically connect to the efoil, follow these steps:

1. Press and hold both the power button and the "-" button on the remote for 2 seconds to enter the Bluetooth connection management screen.
2. Use the "+" or "-" button on the remote to select the efoil to connect to, then press the trigger to confirm.
3. The smart battery will display a confirmation prompt; press the battery power button to confirm.

4. Once connected successfully, the Bluetooth icon in the remote status bar will light up, and the green light will remain on.

Pairing a New remote:

1. First, power off the currently connected remote.
2. Follow the efoil and new remote pairing steps to ensure a successful connection.

4.2 efoil Usage

After assembling the efoil and before going on the water, follow these suggestions and steps to stay safe during the experience. Proper preparation and ensuring a safe environment will make for a smoother and safer time.

Preparation and Precautions:

1. **Wear Safety Gear:** Always wear a wetsuit, diving shoes, diving gloves, life jacket, and safety helmet to ensure safety during use.
2. **Test the Propeller:** During pre-water testing, the propeller will rotate at its lowest speed for safety and motor protection. Keep hands and other body parts away from the propeller while it rotates.
3. **Transport the Board:** Before transport, ensure the remote is powered off or the trigger is locked. Avoid hand contact with the propeller and prevent collisions with the wing, propeller, and other components during transport.
4. **Choose a Suitable Location:** Find a location with sufficient water depth (around 1.5 meters), free of surface or underwater obstacles, and away from swimmers and other water activity participants. Ensure that local laws allow efoil use in the area.
5. **Maintain Balance and Safety:** If you feel like you're losing balance, release the remote trigger and fall to the same side as the board's tilt to minimize potential injury.

If you're ready to enter the water, follow these steps:

- **Ensure Remote is Locked:** Before getting on the board, make sure the remote is locked.
1. **Board the efoil:** It's recommended to board from the rear, avoiding contact with the wing, propeller (or other power system components), and motor. Use the board's handlebar to assist with boarding.



2. **Set Gear Level:** Set an appropriate speed level. Beginners should start at level 1. Press and hold the remote's "-" button to unlock the remote, then slowly pull the trigger to start the propeller.
3. **Practice Slow Gliding:** Gradually increase the throttle to let the efoil accelerate. If the board's front lifts too high, the throttle is too high; move your body forward or reduce the throttle. When your flying posture is suitable, you can begin to take off.



4. **Adjust Flying Posture:** After takeoff, adjust your center of gravity and throttle to control flight height and direction.



Flying Control Guide (Recommended for Study Before Flying):

Adjusting posture, height, and direction is critical to efoil flight. Here are some basic control guidelines to master through training and practice (assuming the user is facing the board's front):

- **Throttle Controls Speed:** Adjust throttle up/down to control speed.
- **wing and Rear Wing Effects:** Provide lift and stability, with stronger lift and stability at higher speeds.
- **Center of Gravity Adjustment:** Adjust left/right/forward/backward to tilt the efoil, change direction, or adjust pitch.
- **Takeoff Control:** When speed and pitch are suitable, the efoil can take off and rely on wing lift to fly.

Important Considerations:

- **Wireless Signal Connection:** To maintain a strong wireless signal, keep the board's front end as much above the water as possible.
- **Beginner Training:** Beginners need time to master flying maneuvers. Practice regularly to improve your skills gradually.

By following these guidelines and suggestions, you'll be able to use the efoil safely and effectively. Remember, beginners need patience and consistent practice to improve their skill level.

4.3 Outboard Motor Assembly

4.3.1 Precautions

1. When using the outboard motor, do not install the front and rear wings.

4.3.2 Tools Preparation

L-shaped wrench and electric screwdriver (optional)

4.3.3 Components Preparation

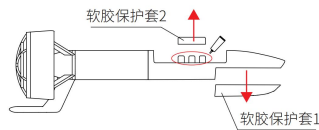
- Outboard motor assembly
- Outboard motor power cable
- Propulsion unit (with two M6x20 mounting screws)
- Smart battery

- Component images below:

4.3.4 Assembly Steps

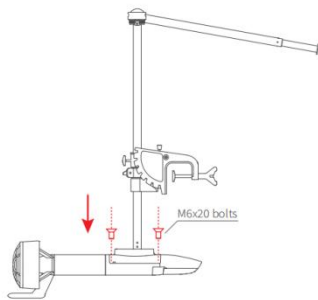
1. Install the Outboard Motor Assembly:

1. As shown, place the soft rubber protective cover 1 on the propulsion unit and secure it with three screws. Remove the soft rubber protective cover 2 at the connection between the outboard motor assembly and propulsion unit. Apply an appropriate amount of lubricant to the seal ring as needed.



Note: Store soft rubber protective cover 1 properly to prevent losing it.

2. Remove the soft rubber cover at the copper pillar position of the outboard motor power brace rod. Apply lubricant to the seal ring if necessary.
3. Install the outboard motor assembly vertically onto the propulsion unit, gently move the outboard motor power brace rod left and right to ensure proper installation, and secure it with two M6x20 screws.



2. Connect to the Boat:

1. As shown, mount the hanging bracket to the boat's stern.
2. Loosen the height adjustment screw counterclockwise, adjust the installation height, and tighten the hand screw.

3. Connect the Battery:

1. As shown, plug one end of the outboard motor power cable into the outboard motor assembly.
2. Insert the power end of the outboard motor cable into the smart battery's DC power port.
3. Place the smart battery face-up in a secure and stable location on the boat, away from areas with accumulated water.

4.4 Using the Outboard Motor

1. Turn on the battery.
2. First, check if the current gear is forward or R (reverse). Press the "R" button to switch

between forward and reverse. Briefly press the "M" button to switch gears (low/medium/high).

3. Turn the throttle to adjust the propeller speed.
4. If you can't adjust the direction, first loosen the direction lock screw. Move the steering arm left and right to change the outboard motor's propulsion direction.

V. Troubleshooting Solutions

This section provides basic troubleshooting steps for charger indicator light issues. If you encounter any problems while using the product, stop using it and paddle back to shore while lying on the board. Inspect the issue and resume use only after resolving it. If any problem cannot be solved, promptly contact after-sales service.

Possible Issues and Solutions:

1. **Battery Fault Red Light On:**
 - Check if the battery temperature is too high. Stop using the product and allow the battery to cool before continuing.
 - Check if the battery level is too low. If so, charge immediately.
 - If the issue persists, promptly contact after-sales service.
2. **No Battery Output:**
 - Check if the power kit and battery are properly connected. Tighten any loose L-bolts.
 - Normally, the battery should provide output. The output indicator on the screen will

remain steadily blue.

3. **Battery Unable to Charge:**

- First, check if the battery's fault indicator light is on. If it is, contact after-sales support for battery repair or replacement.
- Next, check if the charger's indicator light is flashing red.
- If the charger is working properly, ensure the charger's AC plug and the battery's DC port are securely connected. Tighten any loose connections.
- If the connection is secure, flip the charger to ensure the switch is in the "ON" position. The battery should charge normally.

4. **Motor Emitting Abnormal Sounds During Use:**

- Immediately release the remote trigger to stop the motor, turn off the remote, and paddle back to shore while sitting on the board.
- Remove the battery, then check the propeller for foreign objects. If any are found, remove the propeller guard and propeller for cleaning.
- Before inspecting the propeller, ensure the battery is disconnected, then remove it.

5. **Motor Stops Rotating During Use:**

- Immediately release the remote trigger to stop the motor, turn off the remote, and paddle back to shore while sitting on the board.
- Check if the remote status indicator light is showing a normal connection status.
- Check if the battery level is normal, then see if the power kit and board are securely connected. Tighten any loose connections.
- If the issue persists after trying these steps, remove the battery and check for seawater infiltration or corrosion in the metal connectors.
- If corrosion is found, rinse the plugs with fresh water, dry them, and apply rust remover to eliminate corrosion on the connectors. Finally, clean and dry the plugs.

6. **Excessive Shaking or Vibration During Use:**

- Immediately release the remote trigger to stop the motor, turn off the remote, and paddle back to shore while sitting on the board.
- Remove the battery and check if the mounting bolts of the power kit are loose. If so, tighten them promptly.

7. **remote Connection Interruption During Use:**

- Immediately release the remote trigger to stop the motor, turn off the remote, and paddle back to shore while sitting on the board.
- Turn on the remote and check if the Bluetooth icon is flashing.
- If flashing, restart the battery and pair with Bluetooth again.
- If the issue persists, promptly contact after-sales service.

8. **remote Faults:**

- "Err.1" = Angle sensor initialization failed
- "Err.2" = Spiash initialization failed
- "Err.3" = Angle sensor and slope initialization failed
- "Err.4" = GPS fault
- "Err.7" = Angle sensor initialization, spiash initialization failed, and GPS fault

VI. Maintenance and Care

Regular maintenance is required to ensure optimal product performance and prevent accidental damage. Refer to the following guidelines to understand component care and storage instructions.

Post-Use Cleaning and Care:

- Clean the power unit with fresh water. Avoid exposing any product components to direct sunlight when not in use.

1. Smart Battery

Pre-Use Component Check:

1. Read the warning label on the back of the battery before each use.
2. Check the smart battery for any visible damage. Malfunctioning batteries can cause damage, electric shock, fire, and potential injury to yourself and others.
3. Install the battery into the board and connect it to the power unit. Test the system and check for functionality before entering the water, including power on/off, Bluetooth pairing, and indicator lights.

Post-Use Cleaning and Maintenance:

1. After use, turn off both the remote and smart battery. Disassemble the smart battery, power unit, and wings and store them safely.
2. Clean the battery's exterior with fresh water. Use a cotton swab dipped in alcohol to clean the DC port and buttons. Carefully wipe the battery with a dry towel, then leave it in a cool, dry environment to remove any residual moisture. Although the smart battery is waterproof, keep it dry whenever possible, and do not submerge it.
3. Avoid placing the smart battery directly on sand, as it can scratch the surface.
4. Do not charge the smart battery immediately after use. The battery may be hot. Allow at least 60 minutes for cooling in a cool, dry place before charging.
5. Do not use expired alcohol or other flammable solvents to clean the smart battery or charger.

Note: If the battery is accidentally dropped or damaged during this process, contact Waydoo's after-sales team and do not continue using the battery.

Periodic Maintenance and Care:

1. Every two months, inspect the battery's appearance (including the casing, display, etc.), ports, indicator lights, and other parts for damage. Pay special attention to cleaning the battery's positive and negative ports. Use a cotton swab with alcohol to remove corrosion. Regularly clean and maintain the battery ports to prevent corrosion of the metal springs, which can affect stable contact. The DC terminal can be replaced. If needed, contact Waydoo's after-sales team or an authorized service center.
2. Once a month, check the battery's power and supply functions. Use a magnet to activate the power button and check the remaining battery level. Charge the battery to 40-60% if it's too low to prevent over-discharge.
3. Once a month, check the battery's vent valve for damage. Make sure the protective net is installed correctly. If the vent valve is damaged, stop using the battery.
4. Regularly inspect the battery's power terminals for corrosion and replace them promptly to prevent battery function impairment.

Power Terminal Health Monitoring:

Regularly clean and maintain power terminals during prolonged battery use to prevent oxidation and extend their lifespan. Oxidation can lead to poor contact, increase resistance, and raise terminal temperature during discharge. If the temperature exceeds a safe range, the battery may become damaged. Battery output will immediately cease, and a warning window will pop up. In this case, replace the battery terminal immediately and inspect before further use.

Note: If the battery is damaged in appearance or functionality, promptly contact Waydoo's after-sales team.

Helpful Tips:

1. If the battery is not securely installed and powered on without locking, seawater may leak between the power connectors, causing poor contact, corrosion, or even battery and power unit damage.
2. Avoid seawater around the connectors when installing or replacing the battery. Residual seawater can cause other faults due to the pressure when the male and female connectors close.
3. Do not spray WD40 or other insulating substances on the electrical interfaces, as this can lead to poor contact.

4. Rinse with fresh water after use, and charge only when the plug is dry to prevent corrosion that could hinder charging.

Safe Storage:

1. Keep the smart battery out of reach of children and pets.
2. Do not leave the smart battery in a car on hot days.
3. Avoid disassembling, puncturing, striking, or dropping the smart battery.
4. Do not handle the smart battery with wet hands.
5. Keep the smart battery away from direct sunlight, fires, or temperatures above 55°C (131°F).
6. Do not discard the smart battery carelessly.
7. If storing the battery for a month or longer, maintain the charge at 40-60%.
8. Store the battery in a fireproof bag, a specific safety container, or a battery safety box.

2. Power Unit

Pre-Use Component Check:

1. Carefully inspect the power unit before each use. A malfunctioning power unit can cause damage, electric shock, fire, and potential injury to yourself or others.
2. Check the mast's DC port, mid-support rod, motor body, wing mounting holes, and other parts to ensure no abnormalities or damage.
3. Check the mast's power port and ESC port seals for lubricant and apply silicone grease if needed.
4. Inspect the propeller, protective net, pins, and motor shaft for corrosion or damage. If corrosion is present, clean with rust remover. If any power system components are faulty or damaged, stop using them and contact Waydoo's after-sales team.

Post-Use Cleaning and Maintenance:

1. After use, turn off the battery completely. Disassemble the smart battery, power unit, and wings, and store them in a safe and suitable place, preferably in a cool area.
2. Inspect the power unit and propeller for visible damage. Contact Waydoo's after-sales team if there is significant damage.
3. Rinse the power unit body with fresh water for about one minute to prevent corrosion. Clean the mast base thoroughly with fresh water to ensure no debris remains. Use a cotton swab dipped in alcohol to wipe the DC port dry. Wash the motor, propeller cover, propeller, and other parts with fresh water to remove salt, sand, and other debris.
4. After thoroughly cleaning the power unit, dry it with a clean towel, then leave it in a cool, dry environment to remove remaining moisture.
5. After drying, remove the propeller cover, propeller, and pins to check for damage. Clean the motor shaft and pins with rust remover if corrosion is present, then reinstall them.
6. Refer to the anti-corrosion zinc block maintenance guide.

Periodic Maintenance and Care:

1. When not in use, remove the power unit from the board and store it in its packaging.
2. Regularly clean the wing, mast, propeller, and pins, and apply lubricant or rust remover to specific parts. A monthly inspection and cleaning are recommended.

Helpful Tips:

1. Avoid using the product in water with heavy debris to prevent the propeller from tangling or stalling, which could damage the propeller, ESC, or motor.

Safe Storage:

1. Always store the power unit in a clean, dry environment.
2. Keep the power unit in a secure place to prevent children or animals from accessing it.
3. If not using it for a long time, store the power unit in its respective storage bag.

3. Board**Pre-Use Component Check:**

1. Carefully inspect the board for any damage that could affect usage.
2. Inspect the handlebars, battery compartment, rubber plugs, and mast mounting base to ensure there are no issues affecting usage.

Post-Use Cleaning and Maintenance:

1. Disassemble and safely store the smart battery, power unit, and wings.
2. Rinse the board with fresh water for about a minute to clean the battery compartment and mast mounting base. Make sure no salt, sand, or debris remains to prevent internal corrosion. Dry the board with a towel and let it sit in a cool, dry environment to eliminate residual moisture.

Helpful Illustration:

- Fill the board with water through the handlebar and place it vertically to rinse.
- The EPP material has some absorbency, so after rinsing, store the board vertically in a cool, dry place to dry before putting it away.

Periodic Maintenance and Care:

1. Periodically apply lubricant or rust remover to the mast mounting base and screw holes. Keep lubricant away from the board's handlebars to prevent slippage.
2. Regularly check the board for cracks or damage (every three months is recommended). If there is severe damage, stop using the board and contact Waydoo's after-sales team.

Safe Storage:

1. Ensure all sand, dirt, and salt are rinsed off, and the board is completely dry.
2. Before storing, ensure the surfboard and handlebars are dry.

4. remote**Pre-Use Component Check:**

- Carefully inspect the remote and check all functions once powered on and connected to the board.

Post-Use Cleaning and Maintenance:

1. Turn off the remote.
2. Rinse with fresh water to remove salt and debris. Pay special attention to the trigger area. If the trigger sticks, check for stones or sand. If present, rinse thoroughly with water while pressing and releasing the trigger repeatedly.
3. After cleaning, dry the remote with a towel and store it in a cool, dry place.

Periodic Maintenance and Care:

- Periodically check the power, charging, Bluetooth connection, buttons, and trigger functionality.

Helpful Tips:

1. After use, rinse the remote with fresh water and charge only when the charging contacts

are clean and dry to prevent corrosion.

Safe Storage:

1. Ensure all sand, dirt, and salt are rinsed off and completely dry.
2. Store in a cool, dry place, away from direct sunlight. If unused for a long time, keep the remote in its original packaging.

5. Charger/Charging Inverter

Pre-Use Component Check:

- Inspect the charger (or charging inverter) to ensure no visible damage.

Post-Use Cleaning and Maintenance:

1. Disconnect the charger plug and socket to cut off the power supply.
2. After charging, check both ends of the charger for abnormalities.

Periodic Maintenance and Care:

- Periodically inspect the charger's connectors, cables, buttons, and indicator lights. Connect it to the battery to test functionality.

Safe Storage:

- Store the charger in a cool, dry place, away from direct sunlight. If not used for an extended period, return it to its original packaging.

Note: The charger is not waterproof. Keep it dry during storage, transport, or use.

6. wing

Helpful Tips:

1. Use the screws provided in the official accessory pack to install the wing, as screws that are too long or too short can damage the wing and its mounting adapter.
2. After each use, remove the wing and rinse with fresh water to prevent salt buildup and corrosion on the mast.

7. Propeller

Regularly check the propeller's condition. If it needs replacement, follow these steps:

Tools: Flat-head wrench

1. Rotate the propeller guard clockwise and remove it from the propeller cover.
2. Use the flat-head wrench to unscrew the bullet head counterclockwise and remove the current propeller.
3. Remove the existing propeller pin and replace it with a new one. Insert the pin into the pinhole on the motor output shaft.
4. Install the new propeller (ensure it's not deformed or scratched) with the same groove alignment.
5. Reassemble the new bullet head and propeller guard to complete the replacement.

VII. After-Sales Warranty Service

Waydoo Flyer EVO After-Sales Service Policy/Terms

Service Scope:

Waydoo guarantees that under normal use, the Waydoo Flyer EVO product you purchased will be free of material and workmanship defects during the warranty period as specified in the product details. The warranty period begins on the day you receive the product. Refer to the warranty instruction table for the warranty period of specific components. Repaired or replaced parts during the warranty period will not extend their original warranty period. If you can't provide a purchase receipt or other proof of purchase, the warranty start date will be based on the product's manufacturing date or as specified by Waydoo.

How to Obtain After-Sales Service:

During the warranty period, if the product does not perform as guaranteed, contact Waydoo for after-sales service.

Waydoo may not provide after-sales service in some regions, and the service policy may vary by location. Services beyond the standard coverage may incur additional charges. Contact Waydoo or a local authorized dealer for local information.

Applying for Warranty Service:

Waydoo provides the following warranty services. For more information, contact Waydoo or an authorized dealer. You may need to fill out a product warranty card and, if required, return the product with the warranty card to Waydoo or an authorized service center.

Preparation Before Getting After-Sales Service:

After contacting Waydoo, explain the issues in detail. Waydoo's technical support team will attempt to diagnose and solve the problem via email, phone, or remote assistance. If remote

support does not resolve the problem, you may need to send the product to Waydoo or an authorized service center for further inspection. Waydoo will arrange repair or replacement according to the product's warranty coverage.

Before obtaining after-sales service for your product, please follow these guidelines:

- Follow Waydoo's service process.
- Waydoo is not responsible for any data loss or leakage, including confidential, proprietary, or personal information, from returned or warranty-serviced products.
- Ensure Waydoo has full, unrestricted, and safe access to your device to provide after-sales service.
- Remove all features, parts, optional components, modifications, and accessories not covered by after-sales service.
- Ensure the product or components have no legal restrictions hindering their replacement.

Replacement of Products and Parts:

If warranty service involves replacing products or parts, the replaced items will become Waydoo's property, and the new items will become your property. Only unmodified Waydoo products and components can be replaced. Replacement products or parts provided by Waydoo may not be new, but they will be in good working condition and at least equivalent in performance. Replacement products or parts will have the same warranty service as the remaining warranty period of the original product, and may be assigned a new serial number.

Use of Personal Contact Information:

By obtaining service under this warranty, you authorize Waydoo to use your contact information, including your name, phone number, address, and email address. Waydoo may use this information to provide services under this policy. We may contact you for service feedback or notify you of any product recalls or safety issues. To achieve these goals, you authorize Waydoo to transfer your information to any country or region where we conduct business, and to provide it to agencies representing us. We may also disclose this information as required by law.

Exclusions from After-Sales Policy Protection:

- Components not explicitly covered by the official warranty instruction table.
- Normal wear and tear or changes in appearance, including color changes.
- Damage caused by unauthorized modification, disassembly, or shell opening.
- Damage or burning caused by incorrect installation, usage, or operation not following the manual.
- Damage or loss of components caused by incorrect cleaning or maintenance not following the manual.
- Any water activities that cause damage due to incorrect operation not following the manual.
- Damage from self-repairing without official instructions or support.
- Accidents involving collisions or burning that are not due to product quality issues.
- Damage due to improper circuit modification, or inappropriate use of batteries or adapters.
- Product failure or damage from storage or usage in harsh environments like strong winds, rain, or dust.
- Product abnormalities or damage from operation in complex electromagnetic or high-interference environments, such as mining areas, high-voltage lines, substations, or

unsuitable waters.

- Damage caused by forced operation with aging or damaged components.
- Damage from interference with other devices.
- Reliability or compatibility issues from using third-party parts not provided or recommended by Waydoo.
- Battery damage due to over-discharge.
- Further damage caused by continued use after reporting a fault.
- Machine serial number, factory label, or other markings torn or tampered with.
- Warranty rights are non-transferable and belong only to the original purchaser.
- If Waydoo determines that the issue is not a defect in materials or workmanship, and the purchaser can't provide valid proof of the source of the problem.
- Contact Waydoo or an authorized dealer for warranty service and send items within the specified time frame.

Other Notes:

- Waydoo's warranty policy varies by country/region due to local legal differences and service methods, which may result in different fees and warranty services.
- If the customer needs to send a faulty product to Waydoo or an authorized service center, Waydoo will diagnose it to determine the cause of the problem. If it's within the warranty period, Waydoo will repair or replace the product, but the customer is responsible for shipping fees to Waydoo or the service center.
- If the product does not meet the conditions for free repair, customers can opt for paid repair or have the original item returned. Waydoo will not repair it until the customer agrees to the quoted repair cost. If the customer does not agree to the fee, Waydoo will return the product at the customer's shipping expense.
- If the problem is not within the warranty scope (e.g., human-induced damage), Waydoo will charge corresponding inspection, parts, testing, labor, and shipping fees.
- Due to differences in Waydoo's after-sales policy across countries/regions, products are not globally covered. Users can only obtain warranty services at Waydoo-designated regional repair centers.
- If repairs are needed outside the purchase area, Waydoo will handlebar them based on local inventory and provide paid services.
- If an incorrect address is provided or the recipient refuses to accept delivery, the customer is responsible for the resulting loss.
- If Waydoo products are used for unauthorized commercial purposes, Waydoo reserves the right to specify warranty rights separately.
- If users are in areas/countries restricted by force majeure or objective factors, Waydoo reserves the right to charge necessary fees.
- If users cannot provide sufficient evidence to verify warranty rights, Waydoo can refuse free warranty services.
- For international product returns, obtain Waydoo's prior approval, and customs duties and clearance fees will be borne by the customer.
- If severe collision damage affects product performance, making repairs unfeasible, Waydoo will not provide repair services.
- Before sending products for repair, remove personalized items and decorations from the

original product (e.g., stickers, paint). Waydoo is not responsible for any damage or loss of personalized items.

- To ensure your rights, inspect the product for damage upon delivery. If damaged, report it within 3 days after receipt; otherwise, it is assumed to be intact and fully functional.
- According to logistics claim procedures, damages caused by transportation must be reported within 24 hours to Waydoo or an authorized service center. Late reports will not be accepted.

Liability Limitation

Waydoo is only responsible for the loss or damage of a product under the following conditions:

1. The product is owned by Waydoo.
2. The product is in transit under Waydoo's responsibility.

Waydoo is not liable for any data loss or leakage contained in the product, including confidential, proprietary, or personal information. This clause may be invalid if:

1. The data loss or leakage is due to Waydoo's technical shortcomings in data storage and failure to fulfill reasonable management obligations. In this case, despite the terms, users may hold Waydoo accountable.
2. The data loss or leakage is caused by the user's actions, such as randomly discarding old products, and Waydoo is not liable.

Under the following circumstances, Waydoo, its affiliates, suppliers, dealers, or service providers are not liable, regardless of the remedy provided in this document and whether the claim is based on contract, warranty, negligence, strict liability, or other legal theories, even if the possibility of such events is known:

1. Claims for damages brought against you by third parties.
2. Loss, damage, or leakage of your data.
3. Special, incidental, indirect, or consequential damages, including but not limited to loss of profits, business revenue, goodwill, or anticipated savings.

Regardless of the cause, the total liability of Waydoo, its affiliates, suppliers, dealers, or service providers is limited to your actual direct loss and does not exceed the amount paid for the product. The above limitations do not apply to bodily injury (including death) or loss of real or tangible property for which Waydoo is legally liable. Some countries, regions, or jurisdictions do not allow exclusions or limitations of incidental or consequential damages, so these limitations may not apply to you.

Your Other Rights:

This warranty statement provides you with additional, specific rights. You may also have other legal rights depending on the applicable laws in your country/region or jurisdiction. According to your written agreement with Waydoo, you may have additional rights. This warranty statement does not affect statutory rights that cannot be waived or limited by contract, including consumer rights granted by laws or regulations governing the sale of consumer goods.

For detailed Waydoo after-sales policies and technical support, contact **Support@waydootech.com** or your local authorized dealer.

Appendix: Main Component Warranty Periods

Product	Main Components	North America	Europe	Australia	New Zealand	Other Regions
efoil	Board	1 year	1 year	1 year	1 year	1 year
	Mast	1 year	2 years	2 years	1 year	1 year
	Propulsion Unit	1 year	2 years	2 years	1 year	1 year
	Front/Rear Wing	6 months	6 months	6 months	6 months	6 months
Smart Battery		1 year or <300 cycles	2 years or <300 cycles	2 years or <300 cycles	1 year or <300 cycles	1 year or <300 cycles
remote		1 year	2 years	2 years	1 year	1 year
Charger		1 year	2 years	2 years	1 year	1 year
Outboard Motor	Outboard Motor Assembly	1 year	1 year	1 year	1 year	1 year

Notes:

- *Actual components are subject to the purchased product.*
- *Components not explicitly listed in the official warranty table are not covered under this warranty policy.*

**Waydoo Technical Support**

- The manual is subject to change without notice.
- Check Waydoo's official website for the latest version: www.waydootech.com

After-Sales Contact Information:

- **Technical Support Email:** support@waydootech.com
- **Waydoo Official Website:** www.waydootech.com

Certification Caution

Product Name: EVO Mast

Model: MS30A10690; MS30A10890; MS30A10490; MS30A10790

The devices aforementioned meet the requirements of FCC\CE\MIC.

FCC ID: 2ATT4-MS30

FCC Caution:

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.

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

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.

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