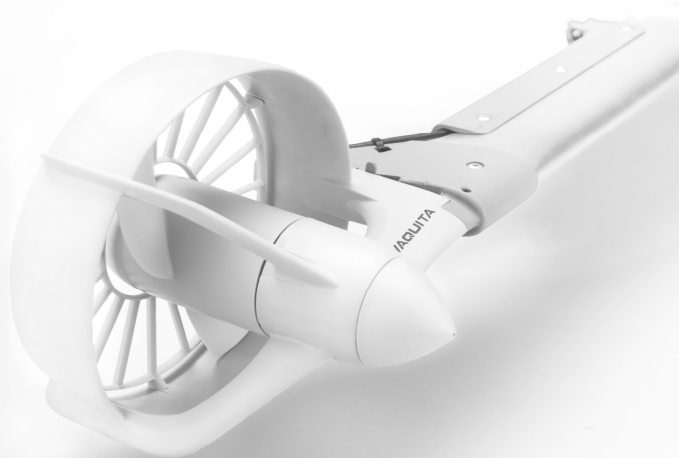




**E-PROP ELECTRIC
OUTBOARDER**

USER MANUAL



XCAT eProp Outboarder

Acknowledgements

Thank you for choosing to purchase the eProp outboarder.

In addition to the sail, the XCAT sailing catamaran can be powered by the RowMotion® rowing system, the RowVista® forward rowing system or the eProp outboarder.

If you have any questions, suggestions or problems, please do not hesitate to contact us. Please also visit our official website www.x-cat.com.

Using this Manual

Before use of the product, please read this reference manual thoroughly to understand the correct and safe operations. By using this product, you hereby agree that you have fully read and understood all contents of this manual. Row&Sail accepts no liability for any damage or injury caused by operations that contradict this manual.

Due to ongoing optimization of our products, Row&Sail reserves the rights of constantly adjusting the contents described in the manual. Row&Sail also reserves the intellectual property rights and industrial property rights including copyrights, patents, logos and designs, etc.

This manual is subject to update without prior notice, please visit our website www.x-cat.com for the latest version. If you find any discrepancy between your products and this manual, or should you have any doubts concerning the product or the manual, please visit www.x-cat.com.

Row&Sail reserves the rights of final interpretation of this manual.

Symbols

The following symbols will help to acquire some key information.



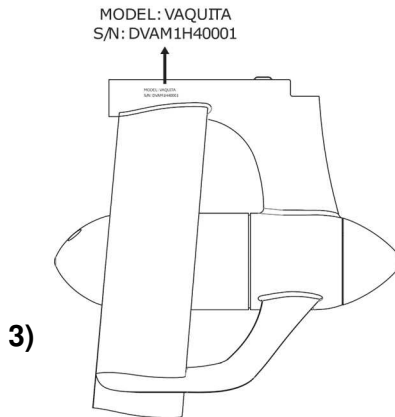
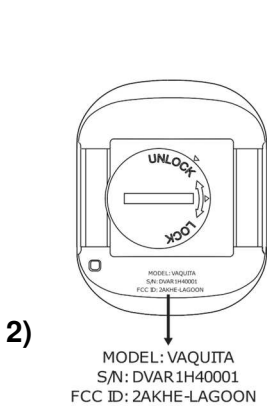
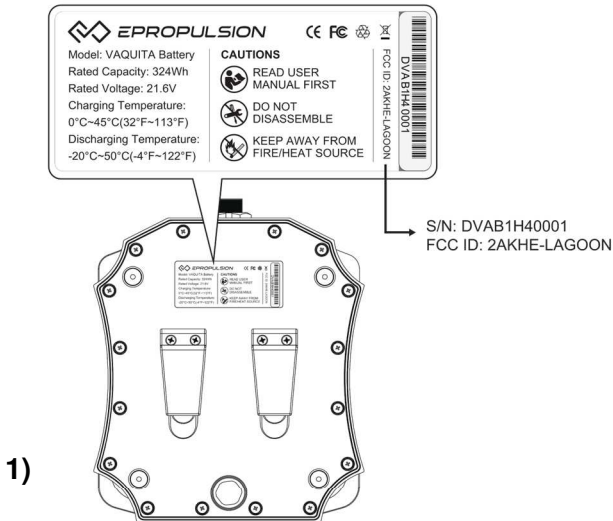
Important instructions or warnings



Useful information or tips

Product Identification

Below Figure 1 indicates the position of the serial number for VAQUITA Battery. Figure 2 and Figure 3 indicate the position of serial numbers for VAQUITA Remote Control and VAQUITA Motor.



The above three parts have different serial numbers. Please record all the three serial numbers for access to maintenance or other after-sale services.

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1. Important Safety Instructions

This user manual contains important information pertaining equipment installation and safety instructions. Before starting to use the product, please read this manual fully and pay special attention to the following safety instructions:



Before Operation

- Users who are allowed to use VAQUITA should be in good physical state, know how to swim and how to paddle.
- Always wear a life vest when operating.
- Always take a paddle or a rowing system on your XCAT.
- Only adults who have fully read and totally understood this manual are allowed to operate this product.
- Check the status and function of VAQUITA before use and make sure all components are in good condition.
- Make sure the VAQUITA Motor is securely mounted on the XCAT before operation.
- Make sure the remote control works well by wireless connection.
- Familiarize yourself with all the operations related to this product.
- Check applicable local water safety rules and boating regulations before use.
- Observe the surrounding environment in advance to avoid unfavorable conditions such as strong winds, waves, currents or rapids, etc.



During Operation

- Do not rotate the motor in shallow water or out of water. Only operate it in water with enough depth and avoid all possible obstacles.
- Follow the correct operating instructions in this user manual.
- Attach VAQUITA remote control to the battery or your wrist for easy access.
- Do not run the motor if swimmers or other watercrafts are near the boat.
- Press the on/off button on the VAQUITA remote control immediately in emergency situations.
- Observe local water safety rules and boating regulations while operating the product.
- Do not run the motor under the influence of alcohol or drugs.
- Switch off VAQUITA Battery and VAQUITA remote control before detaching VAQUITA Motor from the XCAT.
- Make sure the power cable connector is tightened before use, otherwise severe damage may occur to the product during operation.



Handling

- **Never run the motor in the air as it will seriously shorten the motor service life, generate loud noise and possibly cut fingers. Even if users unintentionally run the motor in the air, the motor will stop running immediately in 5 seconds for protective purpose, and the motor may be unable to start normally. Never get close to the running propeller.**
- Never dismantle or repair the product on your own or by any unauthorized third party.
- Keep it away from flammable gas, corrosive and other dangerous substance.
- Store it in a dry and ventilated place without direct sun/rain exposure and store it far away from dangerous substances.
- Pay attention to battery safety and operate it in the right way to avoid short-circuit, overheat, overcharge and over-discharge. Never drop the battery.
- Only VAQUITA Charger designed for the battery. Other chargers may lead to shortened runtime, premature battery failure, or even fire or explosion.
- Clean VAQUITA Motor with fresh water after each use.
- **After using the VAQUITA motor in salt water, it must be cleaned thoroughly:
First, rinse the motor thoroughly with fresh water. The motor must then be run at low speed in a container of fresh water to prevent salt deposits on the moving parts of the drive. Salt incrustations can cause damage to the motor!**

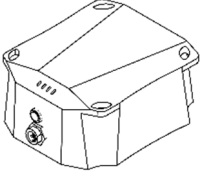
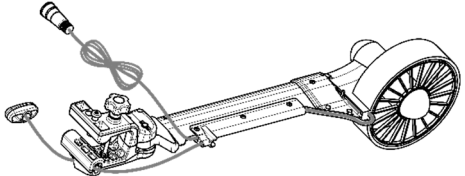
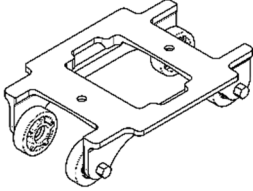
2. Product Overview

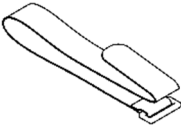
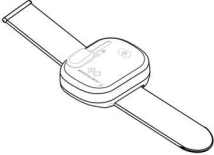




XCAT eProp outboard is an electric propulsion kit for the XCAT sailing catamaran.

The product mainly consists of the bracket with the motor, VAQUITA battery and VAQUITA remote control. This small but powerful propulsion system can run at full speed for more than an hour and supports you perfectly, whether in a lull in the wind or as a support during a tack.

2.1. In the Package

Unpack the package and check if there is any damage caused during transport. Check all the items inside the package against the below list. If there is any transport damage or lack of any listed item, please contact your dealer immediately.

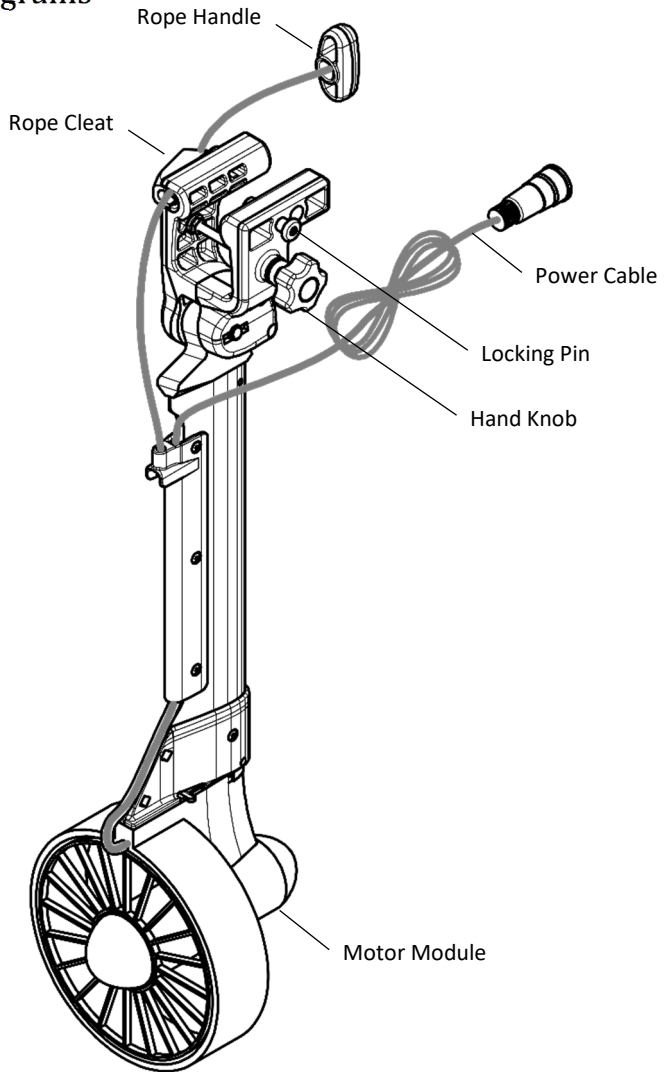
No.	Items	Qty./Unit	Figure
1	VAQUITA-Battery	1 piece	
2	eProp mount including VAQUITA motor	1 set	
3	eProp battery holder	1 set	

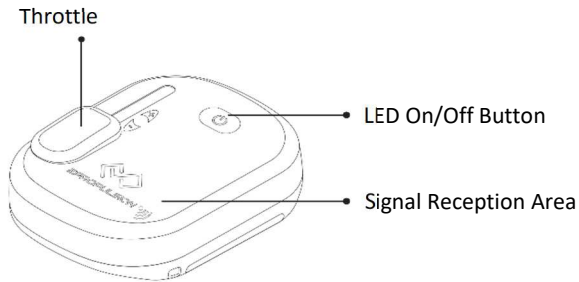
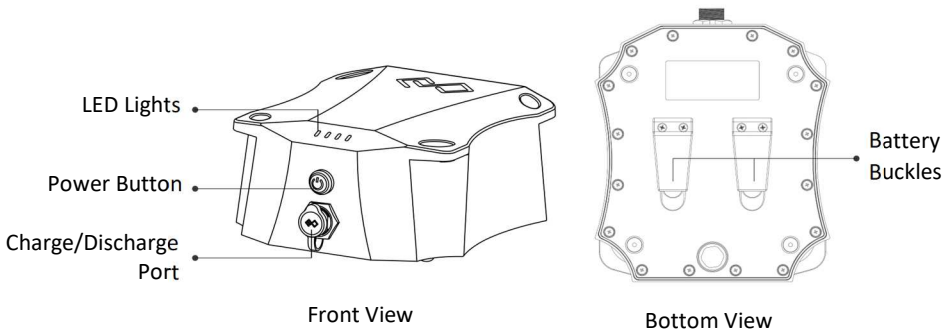
4	Velcro strap 30 x 550 mm	1 piece	
5	VAQUITA Remote Control (w/ a loop band)	1 set	
6	VAQUITA Battery Charger	1 set	
7	Battery bag	1 piece	
8	Outboarder bag	1 piece	
9	eProp User Manual, VAQUITA User Manual, Quick Start, Warranty Card, Quality Certificate & Lanyard	1 set	



Save the original package for transport and storage.

2.2. Parts and Diagrams





2.3. Technical Data

General Data

Input power	300 W
Static thrust	23 lbs
Total weight	6.85 kg / 15.1 lbs
Weight motor incl. bracket	1.85 kg / 4.1 lbs
Dimension motor incl. bracket	600 mm x 180 mm x 170 mm / 23.6" x 7.1" x 6.7"
Propeller diameter	150 mm / 5.9"
Propeller pitch	115 mm / 4.5"
Maximum rotation speed	1800 rpm

VAQUITA-Battery

Battery type	Lithium-ion
Rated capacity	324 Wh
Rated voltage	21.6 V
Final charging voltage	25.2 V
Cutoff voltage	18 V
Weight	2.5 kg
Cycle life	≥500 cycles (80% of rated capacity)
Charging time	3 hrs
Temperature range	Charging: 0°C ~ 45°C / 32°F ~ 113°F Discharging: -20°C ~ 50°C / -4°F ~ 122°F
Dimension	216 mm x 178 mm x 100mm / 8.5"x 7"x 4"

VAQUITA Remote Control

Type	Wireless
Throttle speed	8 levels
Forward/Reverse control	Forward control available
Power source	One in-built button cell (CR2032)

VAQUITA Charger

Input power	180 W
Input voltage (AC)	100 V ~ 240 V
Input frequency	50 Hz / 60 Hz
Input current	≤ 3 A
Output voltage (DC)	25.2 V / 7 A
Temperature range	Operating: -29°C ~ 45.5°C / -20.2°F ~ 113.9°F Storage: -40°C ~ 75°C / -40°F ~ 167°F
Efficiency	≥87%

Bag E-PROP OUTBOARDER

Content	eProp-Motor with bracket
Size	650 mm x 160 mm x 160 mm / 25.6" x 6.3" x 6.3"
Weight including content	2.7 kg / 6 lbs

Bag E-PROP BATTERY

Content	Batterie incl. remote control, charger
Size	240 mm x 240 mm x 150 mm / 9.4" x 9.4" x 5.9"
Weight including content	4.15 kg / 9.1 lbs

Range

Half throttle	ca. 8 km / ca. 70 minutes
Full throttle	ca. 20 km / ca. 5 hours



Battery performance is dependent on many external factors, such as operating environment, temperature, current, wind, etc.

3. Installation

The XCAT eProp outboard is intended for use on an XCAT sailing catamaran.

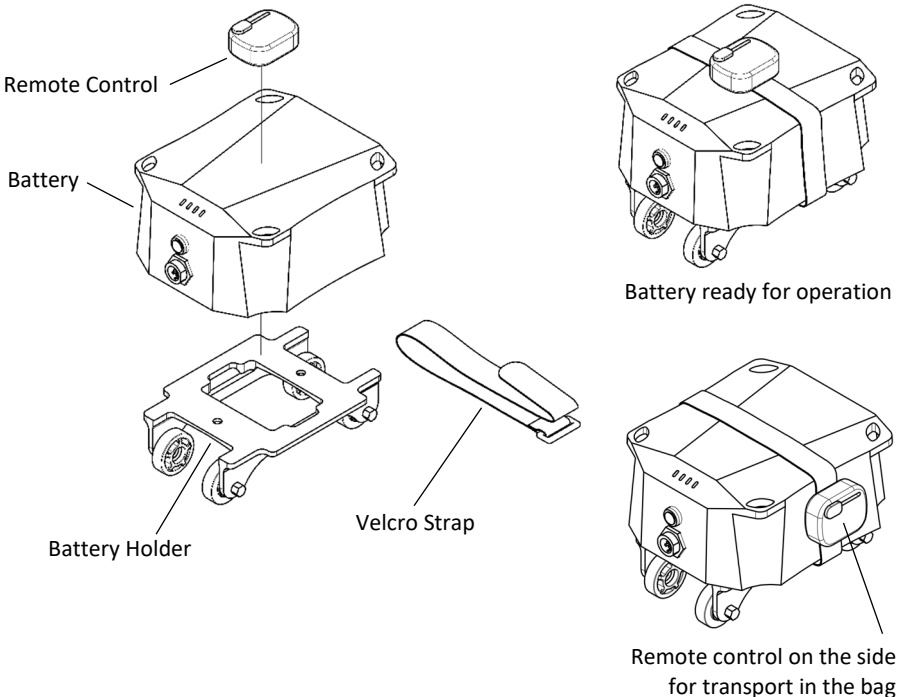
3.1. Fixing eProp Battery

3.1.1. Connecting battery, holder and remote control

First thread the Velcro strap through the two slots on the side of the battery holder. Then turn the VAQUITA battery onto the underside. Now place the battery holder on top and slide the Velcro into the two battery clips on the bottom of the battery. Turn the battery with the holder upside down again so that the 4 rollers are at the bottom. Then thread the Velcro strap through the side opening of the remote control. Finally, tie all parts together with the Velcro strap. For driving with, the remote control should be positioned on top centered on the battery.



If the battery is placed in the bag for transport, the remote control should be fixed to the side of the battery. This protects it better from damage.

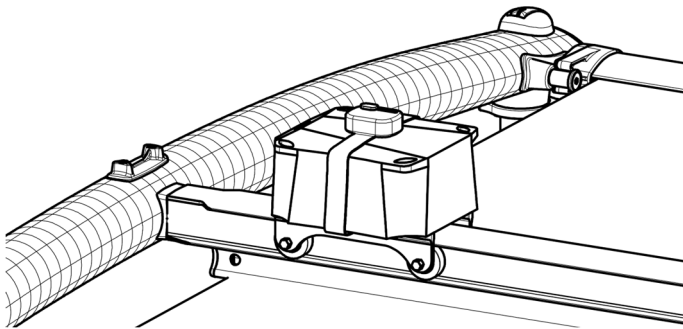
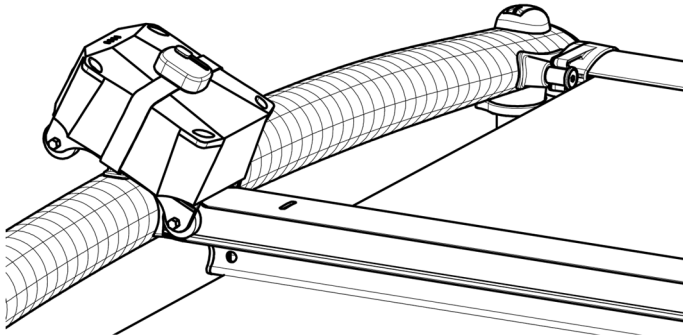


3.1.2. Sliding the battery unit onto the XCAT

Slide the battery unit from behind onto the center beam of the XCAT.

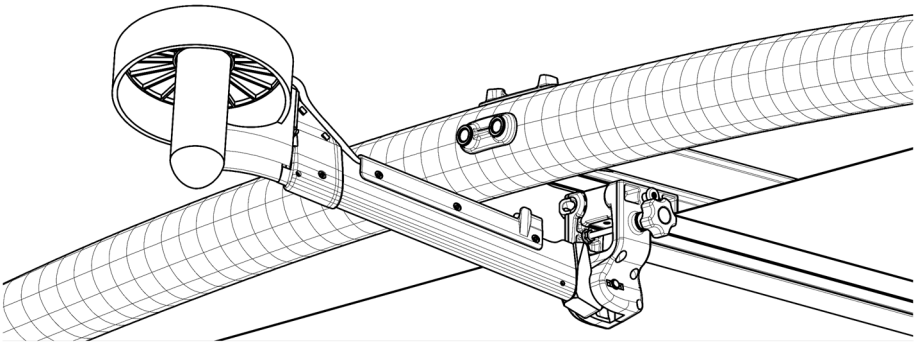
To do this, the rudder must not yet be mounted on the XCAT. If the rudder is already attached, it must be removed again.

The discharge connection of the battery points to the rear for attachment. First, thread the front two rollers of the battery from the top onto center beams and slide them forward. Then thread in the rear two rollers and push the battery a little further.



3.2. Installing the eProp outboarder on the XCAT

- 1) Check whether the eProp is in the swung-up position.
- 2) Check whether the hand knob is open.
- 3) Push the eProp from behind onto the center beam profile and pull the locking bolt. Now push the holder forward until the locking bolt engages in the hole of the center beam profile.
- 4) Use the hand knob to clamp the eProp to the center beam.



3.3. Connecting Battery to Motor

After the eProp outboard and the battery are mounted on the XCAT, you can connect the motor to the battery. Insert the plug of the motor cable into the charge/discharge port of the VAQUITA battery and fix the plug with Velcro strap so that it does not interfere or hang in the water.



Make sure VAQUITA Battery is switched off and the connectors are dry before installing the motor.

3.4. Attaching VAQUITA Remote Control

The remote control is fixed on the battery as standard. There it is easily accessible from all sides and cannot get lost.

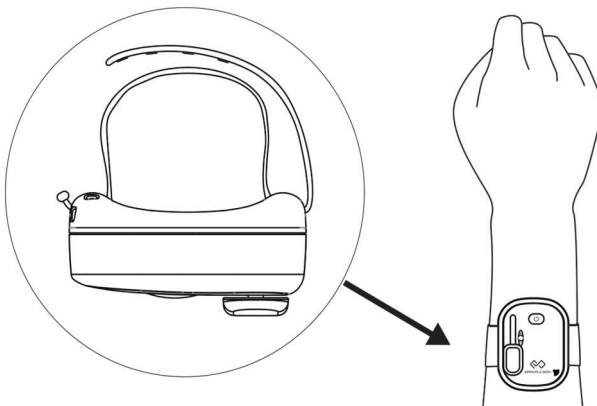
Alternatively, the Remote Control can be attached to a wrist for easy access. You need to penetrate the band through the side opening of VAQUITA Remote Control and bind the strap tightly around the wrist.



Make sure the band is tightly bound if you wear it or attach it to a paddle to avoid it falling into water.



If VAQUITA Remote Control falls into water by accident, a wireless communication failure may occur and VAQUITA Motor will stop rotation at once.

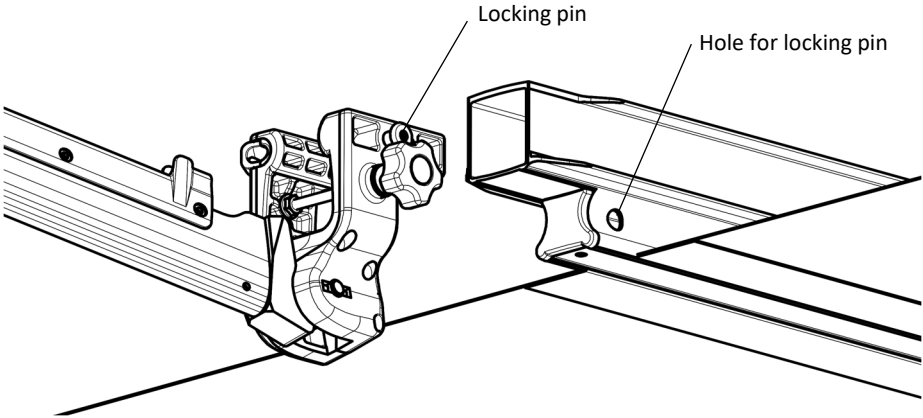


3.5. Hole for locking pin

To fix the eProp drive, there is a lateral hole on the center beam as standard, into which the locking pin can engage.

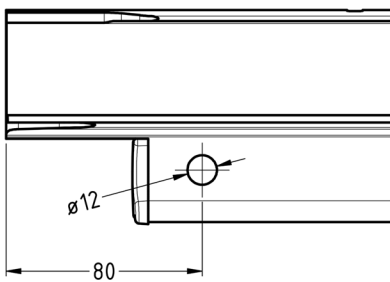
This hole may be missing on older XCAT models.

To be able to use the eProp on older XCAT models, you can make this hole yourself afterwards.

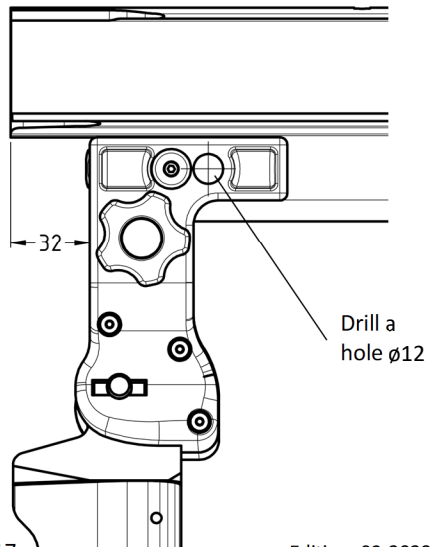


The clamping part of the eProp mount serves as a drilling template - see sketch below! Attach the clamping part to the rear end on the center beam profile at 32mm (measured from the end of the center beam). There you clamp the bracket with the hand knob.

Now you can use a cordless drill and a $\varnothing 12$ drill bit to drill the hole for the locking bolt in the center beam through the bracket.



Position of the hole



4. Operation

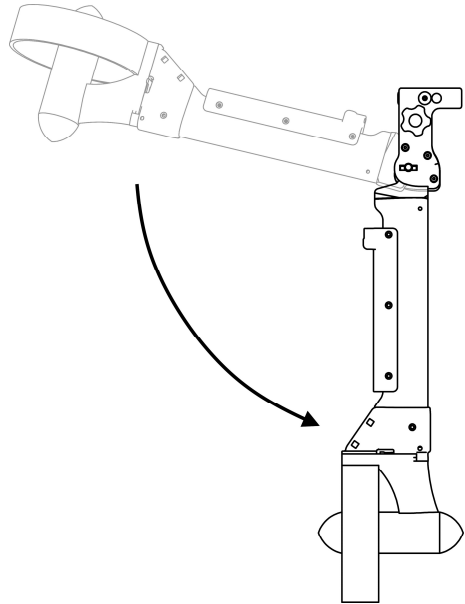
To operate the eProp, it's critical to understand how to use the battery and remote control correctly. Read this part carefully before any operation.

4.1. Swing down

To swing down the eProp motor into the water, pull the rope handle and bring the rope to tension.

Now you can release the rope from the rope clamp by moving it sideways.

Then reduce the tension and let the rope pull back slowly. The weight of the eProp motor causes it to swing down by itself.



4.2. Driving operation

When driving with the eProp, the XCAT is steered via the rudder.



The eProp is only suitable for driving forward. It does not have a reverse gear.



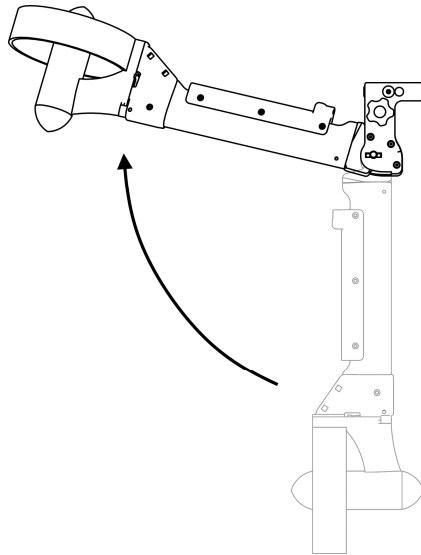
To prevent damage, the motor automatically folds up when it encounters an obstacle. If it hooks into an obstacle, folding up is not possible. Therefore, always check for damage to the drive after a collision.



If you drift backwards against an obstacle, there is no protection. The drive will remain vertical in the water. Damage to the drive or the bracket could occur.

4.3. Swing up

To swing the motor up, take the rope handle and pull the drive upwards with a steady pull. When the motor bracket has reached the upper stop, fix the rope in the rope clamp.



If the eProp is no longer in use, you want to land or you discover a possible obstacle in the water, you must swing the eProp outboard up out of the water.



When swinging up, the motor must not run in any case, the slider of the remote control must be at zero. The VAQUITA battery should be switched off.

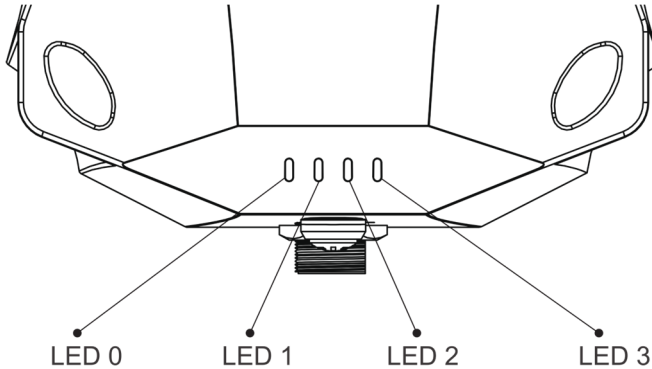


When landing on the beach with the XCAT forward or backward, be sure to swing up the drive beforehand to avoid possible damage to the drive.

4.4. Using the Battery

4.4.1. Battery LEDs

The four LEDs of VAQUITA Battery display battery level, indicate errors and show pairing status. Find the LEDs in below figure.



This table illustrates LED status while charging and discharging.

Battery Condition	Description	Battery Level (L-R)			
Charging	0%~40%	☆			
	40%~60%	●	☆		
	60%~80%	●	●	☆	
	80%~99%	●	●	●	☆
	100%	●	●	●	●
Discharging	0%~20%	☆	☆	☆	☆
	20%~40%	●			
	40%~60%	●	●		
	60%~80%	●	●	●	
	80%~100%	●	●	●	●

Note: ● refers to steady light, ☆ refers to flashing light (1Hz).



If the battery is between 0% ~ 20% when discharging, all LEDs will flash simultaneously to remind you to charge the battery ASAP.

If the LEDs present abnormal flashing states, please check the below troubleshooting table for proper solutions.

Abnormal LED States				Errors	Solutions
L0	L1	L2	L3		
☆	☆	☆	☆	Error 1: VAQUITA Remote Control communication failure	1. Make sure the remote control is powered on. 2. Please refer to section 4.6 Pairing VAQUITA Remote Control with VAQUITA Battery to conduct pairing.
		☆		Error 2: VAQUITA Battery communication failure	Please restart the VAQUITA Battery.
		☆	☆	Error 3: Other errors of the battery	Please restart the VAQUITA Battery.
	☆	☆	☆	Error 4: VAQUITA Battery over-temperature	Stop operation and wait until the temperature falls within the normal operating temperature range.

Note: ☆ refers to flashing light (an interval of 0.2s, a frequency of 5Hz).



If error 1 occurs, L0 and L1 flash alternately with L2 and L3.



If an error occurs in a non-charging state, the LEDs will display the battery level (for 3s) and the error (for 3s) alternately.



If multiple errors occur simultaneously, the errors will be displayed in this priority sequence: Error 4 → Error 3 → Error 1 → Error 2.

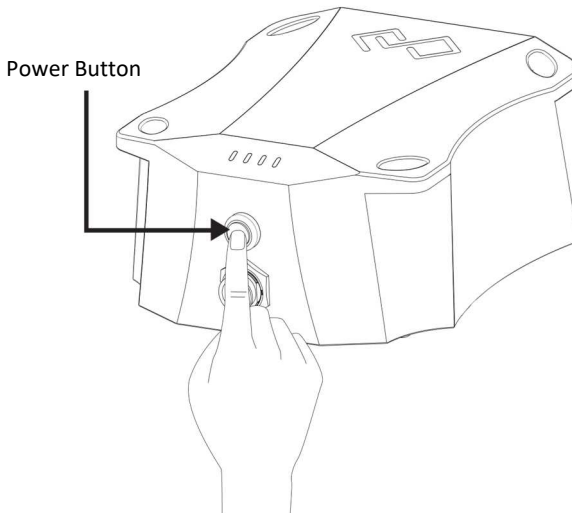


Error 4 VAQUITA Battery over-temperature may occur during charging.





If the error persists, please consult the authorized dealers for help.

4.4.2. Switching On/Off VAQUITA Battery



The below table indicates how to switch on/off VAQUITA Battery.

Operation	Description
<p>Switch on</p>	<p>In power-off state, press the power button and hold until all LEDs light up one by one. Then release the button.</p> <p> The battery will fail to be switched on if the power button is released before all LEDs light up.</p>
<p>Switch off</p>	<p>In power-on state, press the power button and hold until all LEDs light off one by one. Then release the button.</p> <p> The battery will fail to be switched off if the power button is released before all the four LEDs light off, and all the four LEDs will flash simultaneously.</p>



Before mounting VAQUITA Motor, make sure VAQUITA Battery is switched off, and the connectors are dry.



Before switching on VAQUITA Battery, make sure VAQUITA Motor is safely mounted on the XCAT.



If no electrical activity is detected within an hour after the battery is switched on, the battery will enter sleep mode automatically, and the LEDs will all go out. The battery should be restarted if it is going to be used again.



If communication breaks (eg. the remote control is turned off), the battery LEDs will flash in pair. When communication resumes, the LEDs will display real-time battery level.

4.4.3. Charging the Battery

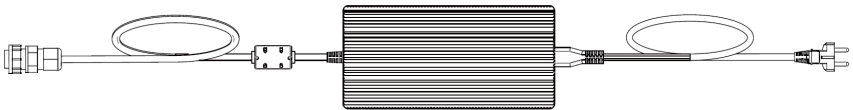


Important notes before charging

- Only use VAQUITA Charger to charge VAQUITA Battery. Do not use any third-party chargers.
- Only charge the VAQUITA Battery in within 0°C~45°C (32°F~113 °F).
- Avoid water contact during charging process.
- Avoid direct sun/rain exposure during charging process.
- Do not overcharge the battery.
- Keep the battery away from flammable substance like a carpet or wood during charging process.
- In case of emergency, please stop charging the battery immediately.

Charge VAQUITA Battery following the below steps:

- 1) Power off the battery, disconnect the battery power cable with the motor. Remove the battery off the XCAT and take it to a dry and safe place.
- 2) Plug the output cable of VAQUITA Charger into the charge/discharge port of VAQUITA Battery and tighten the connector. Then plug the input cable of VAQUITA Charger into the socket. Please refer to 4.1.1 Battery LEDs for LED charging status.



Indicator	Normal Status	Description
Charger indicator	Solid red light	The charger works well.
	Solid green light	The charger works well but has not been plugged into the power socket, or the battery has been fully charged.



It is recommended to fully charge the battery before each use as selfdischarge may occur in the process of transportation and storage.



It takes about 3 hours to fully charge a depleted battery. If fully charged, the LEDs will light off in half an hour.

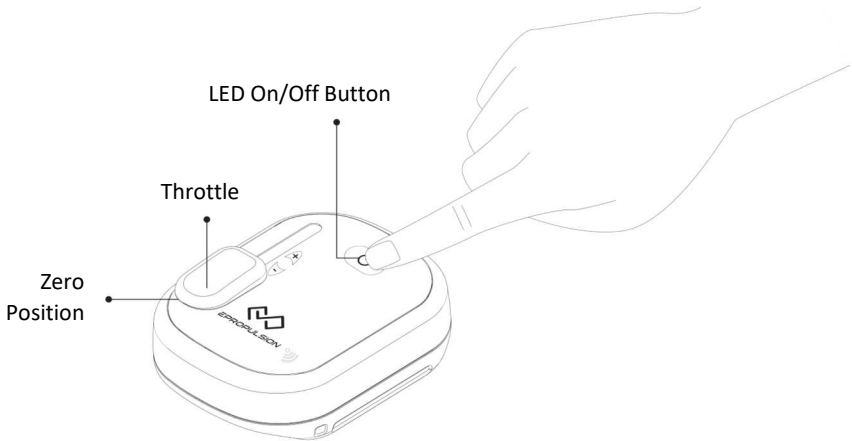
4.5. Use of VAQUITA Remote Control

4.5.1. Switching On/Off the Remote Control



Before switching on the remote control, please check to

- **make sure the throttle is at zero position.**
- make sure the motor is securely attached to the SUP board or kayak.



The following table tells you how to switch the VAQUITA remote control on or off correctly.

Switch On/Off	Operation	LED	Buzzer
Switch on	Short press on/off button	On	One beep
Switch off	Press on/off button for 3s	Off	One beep



While switching on the remote control, if it beeps every 1s for 5 successive times, it is warning the remote control is running out of power. After the low battery warning, the remote control will resume normal and can last only for a short period of time. Please prepare a new button cell (model: CR2032) and replace the battery as soon as possible. Please refer to section 4.5.3 to learn how to replace the button cell.



If it is not at the pairing mode, but the LED is flashing quickly, it is warning that there is a communication failure, and the remote control will turn off in 5 minutes automatically.



If the throttle is not at zero position before switching on the remote control, after switched on, the LED will flash slowly to indicate dislocation of throttle. Return the throttle to zero position, and the LED will resume normal.



If the remote control is switched on but without any operation for 30 minutes, it will switch off automatically.



Press the on/off button on the VAQUITA remote control to stop the motor immediately in emergency situations.



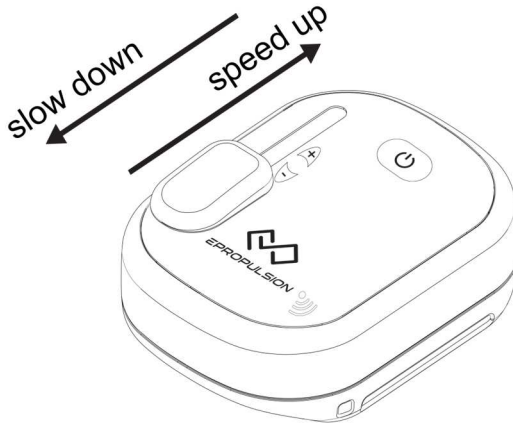
Never get close to the running propeller to avoid injury.

4.5.2. Controlling the Motor



If the throttle is not at zero position when switching on the remote control, the LED will flash slowly. Please return the throttle to zero position first then starting the motor, otherwise you will fail to start the motor.

Operations	Description	LED
Speed control	Slide the throttle forward to speed up and, slide the throttle backward to slow down.	On
Stop	Normal condition: Slide the throttle back to zero position, and the motor will stop slowly	On
	In emergency: Short press the remote's on/off button, and the motor will stop immediately (throttle not at zero position).	Flash



Restart after stop:

- In normal conditions, just slide the throttle forward to speed up.
- For emergency stop, first slide the throttle to zero position then restart.



If the remote control falls overboard by accident, the system will stop immediately to protect you.



If there is not any operation for 30 minutes after the motor is stopped, the remote will switch off automatically.

4.5.3. Replacing Battery for Remote Control

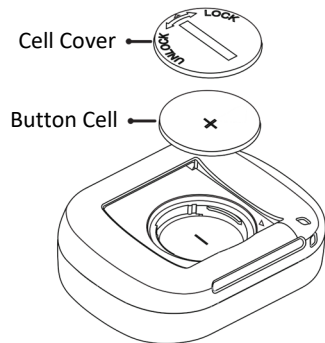
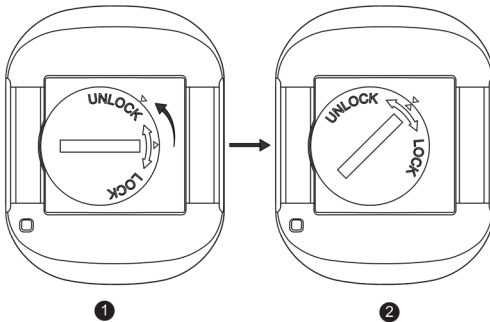
Vaquita Remote Control is powered by an in-built battery (model: CR2032). If the remote beeps every 1s for 5 successive times when normally switching on the remote control, it indicates the remote control is running out of power, and it is necessary to replace a new button cell of the same type.

Replace a new button cell by below steps:

Step1: Screw the battery cover counterclockwise (from ① to ②) to unlock.

Step2: Open the battery cover and replace a new button cell with the "+" side up.

Step3: Screw the cell cover clockwise to lock.



4.6. Pairing Remote Control with Battery

VAQUITA Remote Control and VAQUITA Battery in each package are well paired prior to delivery, but if: ① the remote is a new one, or ② the battery is a new one, communication will fail and users need to build wireless communication between the remote control and the battery.



Follow below instructions to pair. We strongly recommend you to read and understand all process before implementing pairing operation.

Preparation

Turn off the remote control and turn on the battery.

Entering Pairing Mode

Step 1 Put the Battery into Pairing Mode

- ① Press the battery power button.
All battery LEDs simultaneously enter slow flash mode. This mode lasts only a few seconds, during which execute ② , otherwise you have to repeat ① .
- ② Press the battery power button again and hold for about 5s until all LEDs flash quickly (which indicates the battery has entered pairing mode successfully). Then release the button.



The battery's pairing mode only continues for a limited period of time, so execute step 2 during this period, otherwise pairing fails.

Step 2 Put the Remote Control into Pairing Mode

- ① Hold the remote control close to the battery.
- ② Press and hold the remote's on/off button for 10s until it issues two beeps (to indicate the remote control has entered pairing mode). Release the button and you'll hear another beep to indicate pairing succeeds.



Do not release the button within 10s, otherwise pairing fails.

5. Detaching eProp-Motor

After using the eProp, follow the steps below to remove the VAQUITA motor from the XCAT.

- 1) Long press and hold the on/off switch to turn off the battery.
- 2) Disconnect the connection between the VAQUITA motor and the VAQUITA battery.
- 3) Remove the eProp holder from the XCAT:
 - Open the hand knob.
 - Pull the locking bolt and at the same time push the holder backwards.
 - Slide the bracket with motor off the center beam.
- 4) Remove the steering rudder from the XCAT.
- 5) Slide the battery back and lift it up to remove it. Place it in a dry and safe place.



After using the VAQUITA motor in salt water, it must be cleaned thoroughly:

First, rinse the motor thoroughly with fresh water. The motor must then be run at low speed in a container of fresh water to prevent salt deposits on the moving parts of the drive. Salt incrustations can cause damage to the motor!

6. Transport and Storage

6.1. Transport

When transporting the eProp outboarder, pack the products in the original bags supplied with this product.



Important notes before transport:

- Check and ensure the package is intact without any damage.
- Avoid violent vibration, strike or squeeze during transport. Get adequate damping protection measures before transport.
- Do not expose VAQUITA Battery to the sun or rain during transport.
- Check applicable laws and regulations before transport.

6.2. Storage

If you are not going to use VAQUITA for a long time, it is advised to clean and check it prior to storage. It is recommended to store the products in the bags provided.



Important notes before storage:

- Make sure that each part of the product is dry before storing it in the package.
- Get adequate damping protection before storage.
- Store VAQUITA Battery in a clean, dry and well-ventilated area without direct sun exposure.
- Avoid contact with corrosive substance which may cause permanent damage, weaken or destroy the plastic of VAQUITA.
- Keep VAQUITA Battery away from any sources of fire, sparks, open flame or heat.
- Fully charge VAQUITA Battery before use after long-time storage.

7. Routine Maintenance

Various factors like operation environment (such as temperature, humidity, dust, etc.), aging and wear of internal components, will affect the performance of the product. Routine maintenance is very important for keeping VAQUITA in its optimal operating state.

- It's suggested to take VAQUITA Motor out of the water after use.
- Check the cable regularly for damage.
- Charge VAQUITA Battery after each use.
- Do not run VAQUITA Motor in the air or in shallow water.
- Do not run VAQUITA Motor in water area with thick sediment.
- Clean the exterior of VAQUITA Motor with fresh water after each use.
- Clean the debris in the cave of the adapters after each use.
- Do not drop VAQUITA Battery and avoid it from direct sun/rain exposure for a long time.
- Check the battery level on a regular basis.
- Stop discharging VAQUITA Battery and charge it soon if the battery gets low.
- Before the first time use or reuse after long-term storage, charge VAQUITA Battery to its full capacity in order to achieve its best performance.
- Only use VAQUITA Charger designed for VAQUITA Battery. Other chargers may lead to shortened runtime, premature battery failure, or even fire or explosion.
- Use the battery in moderate temperature to avoid negative effects of extreme temperature posed on battery lifespan and useful cycles.
- Once a fault occurs, deal with the problem in time to avoid any further damage. If necessary, consult the ePropulsion authorized dealer for repair or parts replacement.
- Always follow the instructions in this user manual.

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