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## CECLO

### Electric Catamaran & Pedal



REV inside is a designer and manufacturer of nautical electric recreational vehicles. Based in south of France, we create elegant products with outstanding technologic performances.

Our first product : Ceclo, an innovative electric pedal boat to explore open water and sail in style. With its sleek, streamlined design, this customized boat is a perfect blend of performance and confort. It's easy to navigate, and doesn't require any previous boating experience.

Ceclo is electrically powered, silent and environmentally friendly.

REV inside and Ceclo are proud to announce a complete range of pleasure crafts.

Ceclo offers the promise of new sensations on the water for families, groups of friends, couples, or solo drivers through their beach crafts.

- Ceclo Original Yamaha : Lovers luxury range
- Ceclo Leisure & Cruise : Family Leisure range
- Ceclo Fun : Inflatable and folding Fun Sport

Discover the Ceclo range to enjoy a unique experience in the open water...

#### More Information:

Web Link Presentation: <https://www.esc.guide/ceclo>

Official Web Site: <https://www.ceclo-experience.fr>

[www.esc.guide/ceelo](http://www.esc.guide/ceelo)



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## 1. General Specification

### SPECIFICATION

- CE Beachcraft or Boat D category
- Fiberglass catamaran
- Maintenance-free deck covering Teak/black color
- Inox guard rails
- Dimensions L x l x h : 393 x 172 x 130 cm
- Weight : 210 Kg
- Capacity : Couple or family (225 Kg)
- Speed : 4 knots - 7,4 Km/h
- Range : 3 to 6 hours (depending on pedalling speed, weight of passengers and sailing conditions)

### ELECTRIC ASSIST ENGINE

- Outboards motor YAMAHA - 500 Watts - 55 Lbs
- Progressive control of the outboard motor depending on the pedalling speed

### POWER PACK

- Lithium (2000 life cycles)
- 12.8 Volts - 100 A/h - 1 280 Wh
- Charger 12.8 volts - 20 A (Charging time : 5 h)
- Weight : 11,5 Kg
- Extractible pack

### PROPULSION

- Two-blade propeller
- Fiber shaft
- Manual lifting system

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## 2. Safety

Be aware of the climatic conditions you plan to sail under: precipitation, wind speed, swell, and so on. The Ceclo has been designed to navigate under a mild climate, meaning that wind gusts should not exceed 5 knots, and swell no higher than 50 cm. We therefore encourage its use in still water conditions. Never navigate with your Ceclo under extreme weather conditions (thunderstorms, violent winds...).

### 2.1. Wear a lifejacket

Safety is always a priority. This is why we encourage you to wear a lifejacket.

### 2.2. Beware of hypothermia

Loss of body heat from immersion in cold water can be fatal. In waters of 2°C (37°F), survival cannot last more than 15 minutes. We suggest you to dress taking into account weather conditions.

### 2.3. Cold shock response

During hot weather, after exercise or a meal, your body temperature increases. In order to avoid the thermal choc between your body and the water, make sure you refresh yourself progressively before leaving your Ceclo for a swim.

### 2.4. Do not use the Ceclo alone

We recommend that you do not board the Ceclo alone. If that is the case, make sure you warn your relatives of your trip by informing them of your time of departure and return, as well as the route you will be taking. This way, they could call for help in case of emergency. Never let minors navigate your Ceclo alone. They must be accompanied or placed under the supervision of an adult.

### 2.5. Load capacity

The Ceclo is designed to carry a 330 kg load, representing 4 people (75 kg / person + 1 piece of 30 kg luggage). Before your trip, double-check the maximum load you plan to set sail with. We also recommend that you keep the weight of the load balanced, thus ensuring the best possible stability as well as the Ceclo's optimum performance. Each Ceclo is equipped with a builder's plate containing its serial number (located under the Ceclo, at the front) and specifying its load capacity (on the hull of the boat at the pedaling post).

### 2.6. Behavior onboard

We strongly advise against jumping off and/or heckling on the Ceclo, as this could lead to injury or falls. You are advised to sit down in your Ceclo for the whole duration of navigation.

### 2.7. Use of substances

Never consume alcohol, drugs or any other substance that can affect your coordination, cloud your judgment or hinder your capacity to navigate your Ceclo.

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### 3. General conditions of use

#### 3.1. Road transport conditions

Transportation of the Ceclo is only performed using a trailer that has been approved for car transportation. Before leaving, make sure you have strapped the Ceclo by using the trailer's safety hooks and provided straps. It is forbidden to board the Ceclo while it is still in the trailer, even when stationary.

Make sure to lift the Yamaha® outboard motor before any trip on the Ceclo (cf. § 4.6).

In the event of transportation performed by a carrier, the latter must without fail use a semi-trailer or a container. In this case, only packaging that is specific to Ceclo will be permitted.

The boat must be presented on a Ceclo-approved transportation palette specifically designed for this purpose.

It is prohibited to transport your Ceclo with accessories on it. Make sure the swim ladder is properly folded and fixed. Remove the awning (roof fabric) and its arches, cover, grappling iron, fenders (buoys against the hull), hatch, battery, Fatboy®, net or any accessory external to the Ceclo.

Any breach of these conditions shall result in immediate loss of warranty.

#### 3.2. Navigation conditions

The Ceclo is a category D vehicle. As such, navigation at sea can only be performed within the regulated distance of 300 meters. For navigation on lakes or rivers, prior authorization must be granted by the municipal authority.

It is paramount to perform a comprehensive visual check of the Ceclo before any trip. If any doubts arise with respect to the general condition of the product, do not use it and contact our helpline by email : [usine@ceclo.fr](mailto:usine@ceclo.fr)

Do not use the Ceclo if depth is inferior to 1 meter. The Ceclo cannot be used under upset weather conditions: wind speeds higher than 5 knots, swell under 50 cm, thunder, rain or hail.

Aboard the Ceclo, children must carry a lifejacket, know how to swim and be placed under an adult's close supervision. The maximum load capacity of a Ceclo is of 330 kg, meaning 4 people (75 kg / person + 1 piece of 30 kg luggage). It is forbidden to climb on the Yamaha® outboard motor and to remove the battery when using the Ceclo.

For safety reasons, it is strictly prohibited to swim under the Ceclo, to hang onto or hang from the mechanical elements of the Ceclo (lever, net, awning, ...), to climb on the railing and the floats, stand on the pedals or indulge in any other potentially dangerous action.

Do not jump onto the deck.

We also remind you that it is strictly forbidden to tow, pull or push the Ceclo using another boat or any watercraft that would bring it to a speed exceeding 5 knots.

Any breach of these conditions shall result in immediate loss of warranty.

### 3.3. Handling requirements

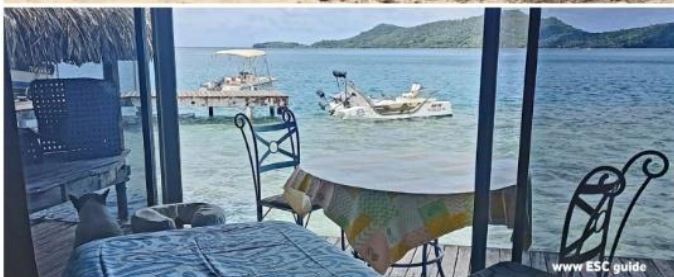
The Ceclo should only dock on fine sand or on a platform provided for this purpose. Warning! Berthing your Ceclo on a pebble or rocky beach constitutes a risk of hull puncture. Make sure the nozzle is lifted during this operation.

When you are not using your Ceclo, we highly recommend that you attach it to an anchorage, a pontoon or a buoy provided for this purpose.

Do not recharge the battery during a thunderstorm.

It is forbidden to mechanically or aesthetically modify the Ceclo without the prior agreement of the manufacturer.

Any breach of these conditions shall result in immediate loss of warranty



4. Device description

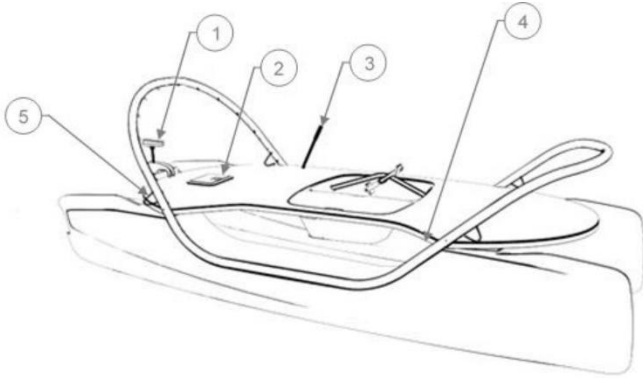


Figure 1: General Ceclo pattern

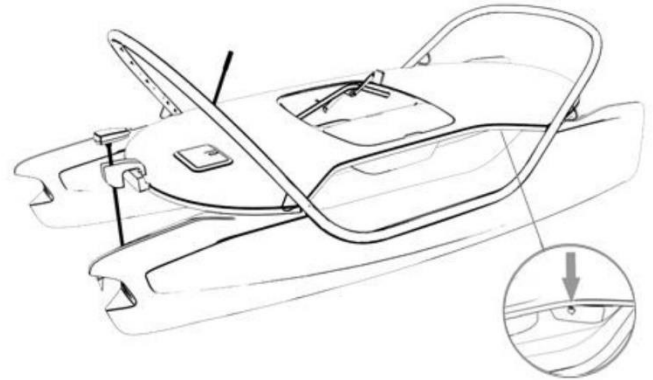


Figure 2: Location of not waterproof box.

NUMBER	DESIGNATION
1	YAMAHA® OUTBOARD MOTOR
2	BATTERY BOX
3	RUDDER CONTROL LEVER
4	NOT WATERPROOF BOX
5	MOORING CLEAT

Note: The box is not waterproof. Do not put objects which fear water. It opens with the provided key.



## 5. Start-up

### 5.1. Battery autonomy and longevity

The battery's longevity can last up to 9 hours depending on your use of the Ceclo. Its full charging time is of 10 h. Its total lifespan corresponds to 2 000 cycles. However, after two years of functioning, or after 2 000 cycles, it loses 20% of its capacities (about 5-7% per year).

### 5.2. Install the railing and the rudder control lever

Upon receipt of your Ceclo, you will need to place the stainless-steel railing as well as the lever if it is not already installed. For the first one, simply put the front hoop (without the net) and rear (with the net), and tighten the screws already in the base of the railing. Be careful to place the hooks down (figure 3).



Figure 3: Positioning of the railing.

For the second, unscrew the top screw so that you can place the lever vertically in its housing and push it in. Unscrew the screw at the end of the lever to screw it onto the rod and also screw the top screw (figure 4).

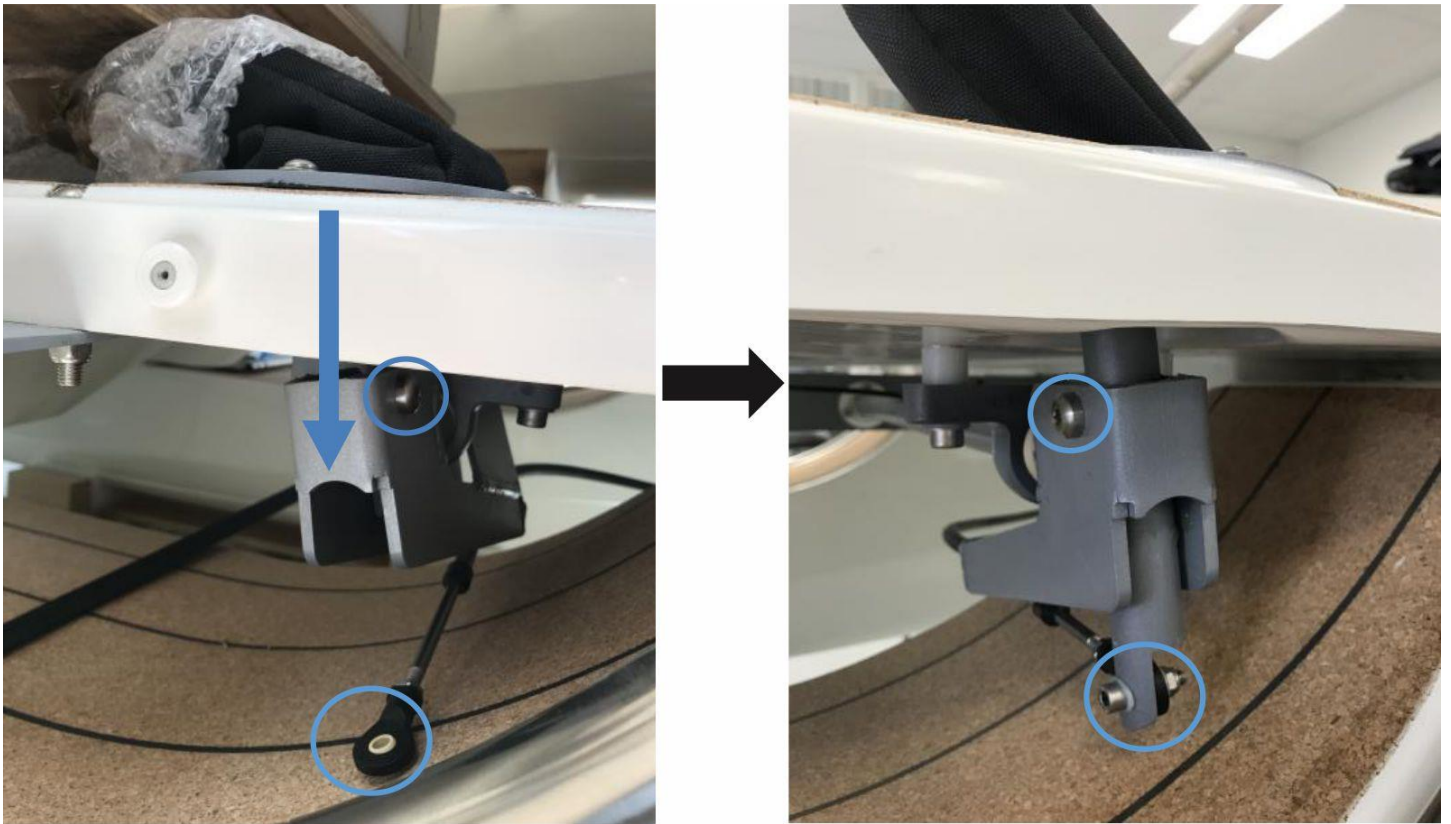


Figure 4: Positioning of the rudder control lever.

### 5.3. Installing and removing the battery

First, make sure that the motor is disconnected before removing the battery from its box. The battery compartment can be found on the deck in the center rear part of the Ceclo (figure 5).



Figure 5: Battery box placement.

Note: The battery box opens with the handle. Lift it, turn a quarter and pull.

Carefully place the battery in the box then connect it to the red (+) and black (-) connections of the Ceclo (figure 6). To remove it, open the box again and unplug it before removing it.



Figure 6: Installing and removing the battery.

#### 5.4. Charging the battery

The provided charger allows you to charge the Ceclo battery by plugging it into the mains (figure 7). It cannot serve any other purpose.



Figure 7: General battery charger diagram.

Before charging your battery, you must remove it from its box. Charging must be performed under your supervision, in a cool and dry, well-ventilated area. All you have to do is connect the cables to the terminals (red wire to the red terminal, black to the black terminal) by screwing the knobs over the lugs.

When charging, 3 LEDs light up on the charger (figure 8).

SIGNING (LED)	SIGNIFICATION
Fixed red Led	First phase of normal charge
Fixed yellow Led	Second phase of normal charge
Fixed green Led	End of charging or maintenance phase

ANOMALIES	
Flashing yellow Led	Battery not connected or Errone type battery OR short-circuit at output
Flashing red Led	Safety timer exceeded OR internal short-circuit



Figure 8: Indication of visual signals.

Note 2: The battery relies on Lithium-ion technology, implying it is free of any memory effect. You can therefore charge it no matter the remaining power level, and without impairing its capacities.

**Caution:**

- To maintain battery longevity, unplug the charger once charging is completed.
- Not using the battery for an extended period of time may cause permanent damage. Remember to charge it up every 3 months.
- If you do not use the Ceclo for an extended period of time, it is advised to remove the battery and maintain its charge level between 60 and 80%.
- At the end of the day, remember to unplug the battery from the Ceclo: slow discharge can occur when it is plugged in with the Ceclo is turned off.
- The battery charger is not water and/or impact-resistant.
- Maintain the battery and its charger away from any source of heat.
- Once the battery is fully empty, it must be charged up quickly. Cells that remain empty for too long can be permanently damaged.

- Keep out of reach of children.
- When transporting your Ceclo, it is prohibited to leave the battery in its box.

The battery can be used at a temperature between 0°C and 55°C (131°F). It can be stored between 0°C and 60°C (140°F). For optimal longevity, we recommend a temperature of 25°C (77°F).

### 5.5. Coulomb counter attached to the motor

The battery charge level can be checked at any time using the Coulomb CC75 meter attached to the top of the motor. It also calculates in real time the time remaining before the battery is completely empty (Figure 9).



Figure 9: Description of the Coulomb counter interface.

Each time the battery is connected to the engine, it is necessary to reset the battery gauge by pressing “▲” for 3 sec.

Our counter is preprogrammed at the factory, but if you need to reprogram the battery capacity, here are the steps:

- Hold " " 3 seconds in the main interface to access the parameters.
- Press " ▲ " or " ▼ " to select the "CAP" line.
- Press "↵".
- Enter the battery capacity, here 100-amp hours. Each digit can be modified by " ▲ " or " ▼ ", then use " " to go to the next digit.
- When the capacity is entered, keep "↵" for 2 seconds to save the parameter.
- Press "▲" and "▼" simultaneously to exit the parameters menu.

The meter backlighting turns on when charging the battery as soon as the current is greater than the operating current of the backlighting, and it turns off automatically when the battery is not in use.



In the event of strong electromagnetic noises (example: motor or electric dimmer), the measurement accuracy may be affected.

If you experience instability in the information displayed, try to move the shielded cable as far as possible from sources of radiation.

If the battery is not in use, the Coulomb counter may display a very low current (a few mA). This current reflects the consumption specific to the Coulomb counter. But since this measurement is close to zero, the measurement may not be very precise. The actual consumption of the Coulomb counter is 6mA in ON backlighting and 0.7 mA in OFF backlighting.

To keep the LCD screen in good working condition: Do not expose the screen to direct sunlight for too long. Do not use it at low temperature (<math>-20\text{ }^{\circ}\text{C}</math>) or high temperature (> 60 ° C). The meter is for the exclusive use of the supplied battery. It must be reprogrammed if it is used on a different battery than the original.

### 5.6. Turning the Yamaha® outboard motor on/off

After installing the battery and closing the box, you can place the Yamaha® outboard motor on the motor support at the back of the Ceclo and fix it with the clamp screws. To connect the motor, all you have to do is:

- Align the motor rod with the propeller,
- Connect the push-pull (rod connected to the rudder control lever) to the motor rod,
- Connect the motor/battery plug to the Ceclo,
- Connect the pedaling plug to the motor (spring wire) (Figure 10).

You can take a seat on the Ceclo. To turn it off, simply undo the 2 connections connected to the motor.

**Note:** For a Ceclo Cruise, all you have to do is connect the motor/battery plug to the Ceclo, and the 2 pedaling plugs on their respective side. There is no need to connect the push-pull because the tiller of the Yamaha® outboard motor is used as the steering.

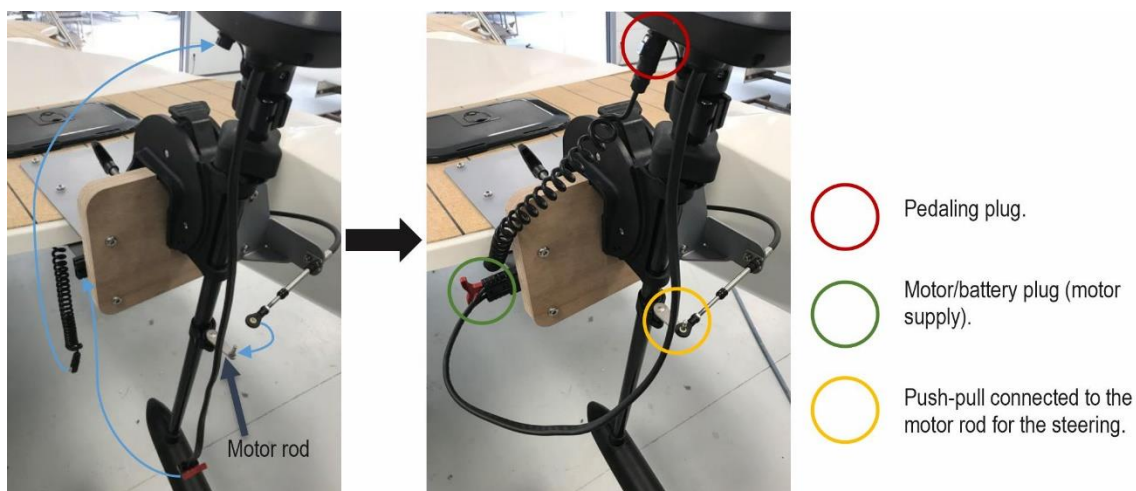


Figure 10: Motor connections.

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## 6. Navigation

### 6.1. The Yamaha® outboard motor

The Yamaha® outboard motor lets you reach a steady cruise speed of 2 knots (4 kph; 3 mph). The maximum speed achieved will be approximately 4 knots (6-7 km/h; 4-5 mph). When the motor is turned on, Ceclo startup is different from starting another pedal-powered craft. It is therefore advised to give it a try in a quiet and uncrowded place to get yourself familiar with the handling of your Ceclo.

#### Caution:

- Given the inertia obtained while pedaling, it is important to anticipate your route. Indeed, when you stop pedaling, the Ceclo keeps on moving for some meters.
- When you start, do not forget that the motor will strengthen your own effort. Moderate your enthusiasm when starting-off!

### 6.2. Launching the Ceclo

To put your boat in the water, we suggest you to use a ramp provided for this purpose or a gentle slope at water's edge (figure 11). In order to facilitate this, a tailor-made Ceclo trailer can be supplied, as well as a boat dolly. For any orders or information requests, we invite you to contact us at this email address: [contact@ceclo.fr](mailto:contact@ceclo.fr).

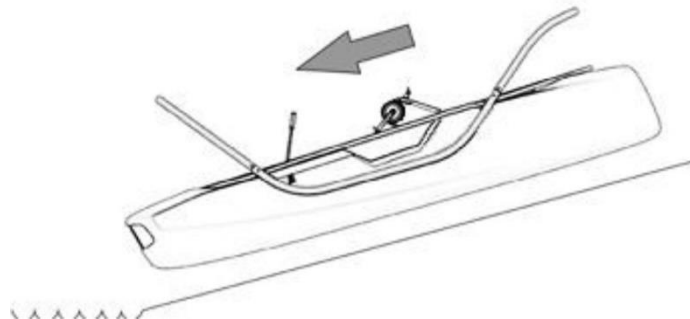


Figure 11: Launching the Ceclo.

### 6.3. Navigating with your Ceclo

Thanks to your floating island, you will be able to safely navigate with great serenity, so long as the safety recommendations mentioned in this guide are complied with.

Steering is done using the rudder control lever located to the left of the user. By activating this control to the left or to the right, the Ceclo will move to the left and right respectively (figure 12).

Note: Operation of the Ceclo is only carried out with the motor in the low position. It can be raised when docking or storing your Ceclo using the quick release tilt lever (Figure 13). Be sure to disconnect the steering via the push-pull cable.

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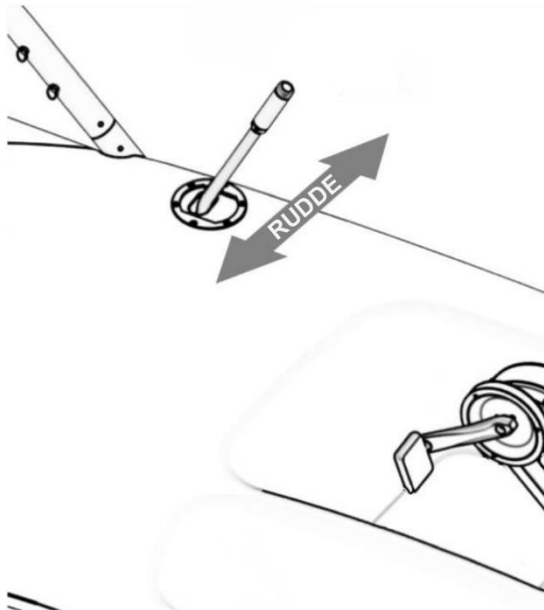


Figure 12: Control lever.

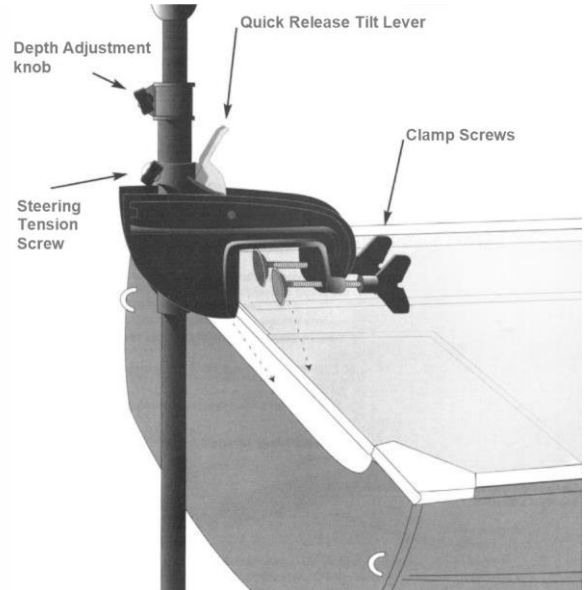


Figure 13: Motor position settings.



## 7. After use

### 7.1. Cleaning and visual check

Once your tour on the Ceclo has come to an end, do not forget to disconnect the cables connected to the motor to turn it off. You are advised to remove the battery from its box after every use.

When the day ends, take your Ceclo back to land, rinse it with clean water, dry it, and perhaps cover it with a protective cover. To remove stubborn marks, it is possible for you to clean the Ceclo's hull with soapy water. The latter will keep it safe from potential damage caused by dirt and from corrosion due to marine environments. Then, proceed to a visual check of the pivoting mechanical parts (figure 14) such as the pedal axle to make sure they contain no extraneous objects (sand, stones...). During overwintering periods – when your Ceclo is out of the water – make sure to open the water drain plugs to ensure the hull's ventilation, hence avoiding potential mildew.

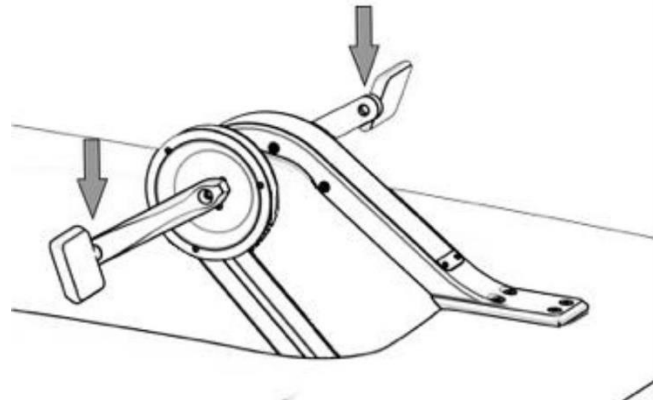


Figure 14: Verification of pivoting parts.

### 7.2. Cork maintenance

Cork is a material that does not require any maintenance. Simple care using a broom/brush with detergent is enough to remove dirt. You have the possibility to fully refurbish the cork. For this, you can sand it with 240 sandpaper (or thinner) by gently insisting on potential stain. Then, proceed to cleaning the cork with a broom/brush and detergent.

**Note:** Cork naturally whitens when exposed to UVs.

**Caution:** do not use corrosive cleaners to avoid deteriorating your Ceclo.

### 7.3. Rail fitting maintenance

It is possible to clean the stainless-steel railings when you deem it necessary. To remove steams, clean the railings using a metal passivator like inox polish pasta (caution: carefully read the precautions of use on each product vial).

### 7.4. Maintenance of supporting elements

Fabric elements such as the Ceclo's net, halyard and cover are machine-washable with a 30°C (86°F) program. As for the Fatboy®, a high-pressure cleaner should be sufficient. However, do make sure the inside of the Fatboy® is dry before you store it.

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## 8. Preventive maintenance

When buying your Cecllo, a preventive maintenance kit is proposed as an option. It will allow you to take care of your Cecllo by yourself, when deemed necessary. This kit contains:

- 1 propeller
- 1 O-ring + bronze bearing kit
- 1 carbon kit
- 1 tube of marine grease for propeller shaft, crankset
- 2 cadence sensors
- 1 crank puller
- 1 replacement male female connector M12
- 1 Anderson connector
- 3M polishing + anti mold cork
- 2 IGUS ball joints if controlled by push pull

### 8.1. Propeller replacement

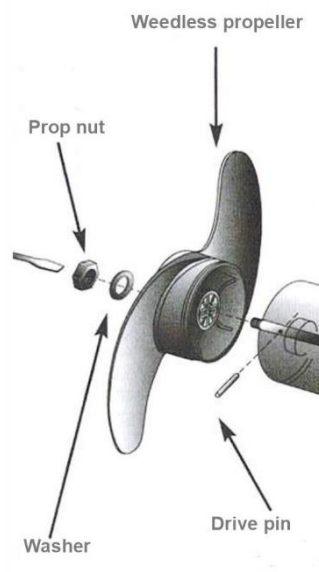
It is possible to replace the Yamaha® outboard motor propeller in your Cecllo.

**Caution:** Disconnect the motor from the battery before handling the propeller or performing maintenance.

Replacement steps:

- Hold the anti-algae propeller firmly and loosen the propeller nut using pliers.
- Remove the propeller nut and the lock washer.
- If the propeller transmission pin is sheared or broken, hold the motor shaft in place with the flat of a screwdriver as you slide it into the slot at the end of the shaft.
- Place the old propeller in a horizontal position (figure 15) and take the propeller out of its axis. If the drive pin comes out of its housing, replace it.
- Align the new propeller with the pin on the drive shaft.
- Install the washer and the propeller nut.
- Tighten the propeller nut ¼ turn after adjusting to the stop.
- Please note that excessive tightening torque can damage the propeller.

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**Figure 15: Propeller replacement.**

**Note:** The anti-algae propeller is designed to work with absolutely no adhesion with algae, thus ensuring very high performance. To maintain this high performance, the leading edge of the propeller blades must remain smooth. If the edge is rough or has wear marks, polish it with fine-grained emery paper.





## 9. Maintenance table

Part	Monthly	Yearly	After 750 hours or every 2 years
<b>TRANSMISSION</b>			
Oil seals	Visual check (no leaks)		Replacement of parts
O-rings			
Coal electric motor			
<b>CONNECTORS AND CHARGER</b>			
Charger	Visual check	Visual check	Visual check
Motor / battery plug			
Pedaling plug			
<b>COATINGS</b>			
Cork	Broom/brush leaching	Broom/brush leaching, specific detergent and saturation	Sanding, broom/brush leaching, detergent and saturation
Adhesive			Replacement if necessary
<b>LINKAGE</b>			
Depth adjustment knob	Visual check (wear check)		Replacement of parts
Steering tension Screw			
Clamp screws			
Tilt lever			
Push-pull cable			
<b>PROTECTION OF BOWS</b>			
Left floating dock: front/center/rear	Visual check		
Right floating dock: front/center/rear			
<b>SMALL PARTS</b>			
Net + halyard	Visual check	Dismounting and leaching	Replacement of parts
Pedals (pair)			
Fatboy®			

## 10. Storing

When storing your Ceclo, remove its battery and safely place it away from heat or humidity (see paragraph 4 for indications concerning the battery).

Before storing your Ceclo, perform a visual check and clean it as described in paragraph 6.1. We highly advise you to cover your boat.

Once the navigation season has ended, we suggest you to perform a complete check and clean-out of your Ceclo, to store in out of the water and to cover it with a protective cover.

## 11. Assistance

### 11.1. Issues when starting-up your Ceclo

If the electric assistance does not activate:

- Check that the battery is in its box.
- Check the battery's power level.
- Check for any damage or signs of impact
- Check for any humidity or extraneous objects in the plugs and connectors. If there are any, let them dry out in ambient air, then remove the dirt.

### 11.2. Electric assistance motor group

In case of failure, please contact REV inside's after-sales service at this email address: [contact@ceclo.fr](mailto:contact@ceclo.fr).

If the problem persists or if you have any other potential issue, we invite you to contact your nearest distributor or REV inside.

**By post:**

REV inside  
Pôle mécanique  
Vallon de Fontanès  
30520 Saint-Martin-de-Valgalgues  
France

**By email:**

[contact@ceclo.fr](mailto:contact@ceclo.fr)

## 12. Small parts

The Ceclo is a customizable product that contains many small parts.

We can send you our catalogue or provide you with extra information. Do not hesitate to contact our sales team.

## 13. Warranty

Each Ceclo contains a serial number that can be found underneath the deck, at the front.

The boat is guaranteed 12 months when intended for rental purposes and 24 months when used privately.

The battery benefits from the same level of guarantee with 24 months.

The handle, pedals, Fatboy®, net and halyard as well as cork are considered as wearing parts and are therefore not guaranteed

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**14. Pricelist**

Model	Retail price without tax
Ceclo Original Yamaha (Fiberglass)	15 900 €
Ceclo Cruise (F) *	15 900 €
Ceclo Cruise without central storage (F)	13 900 €
Ceclo Leisure (F) **	11 900 €

Accessories	Price without tax
Original Ceclo roof	1 500 €
Ultralight pro roof	500 €
Telescopic swimming ladder (Original & Boat only)	250 €
Fiberglass Additional battery - 1 280 Wh - Lithium ion (1 500 up to 2 000 cycles)	1 500 €
Additional battery - 915 Wh - Lithium ion (Torqeedo 750 cycles)	750 €
Beanbag XXL - FATBOY	250 €
Beach Trailer	1 250 €
Screw anchor / Umbrella anchor	150 €
Protective cover	350 €
Road Trailer	2 750 €
Preventive kit	350 €
Export palletizerable packaging	300 €

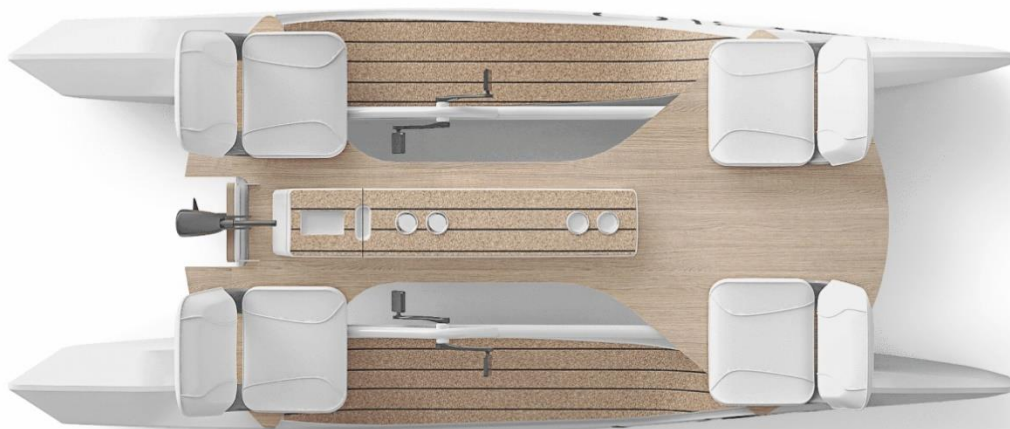
<b>Delay Time</b>	6 to 8 weeks for Original, Boat Cruise or Leisure
<b>Payment Terms</b>	50 % at the order, balance payment 1 week before picking
<b>HS Code</b>	8903 99 91 00
CE beach craft, Handling made In France, 2 years in Warranty parts	

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\* Ceelo Cruise



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