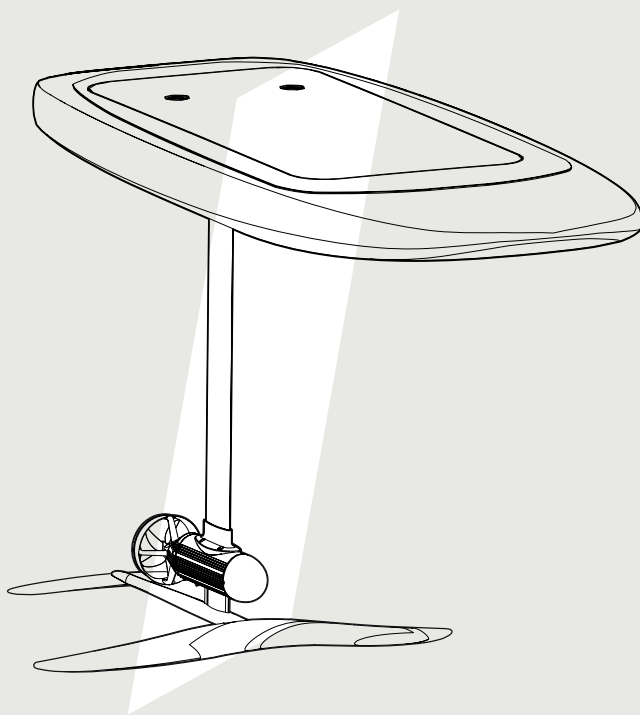


# ***e-foil***

USER'S GUIDE



**takuma**  
*fly above water*

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# 1. GENERAL

EN

## 1.1 About



### **Read the guide carefully.**

Please carefully read the instructions and the safety warnings presented in this guide before assembling and using the product. Keep the guide in a safe place in order to refer to it later.

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The information presented in this guide is the property of TAKUMA. It cannot be reproduced, partially or in full, without prior authorization from us.

The illustrations are provided to facilitate comprehension. They have no contractual nature.

The information in this manual was accurate at the date of publication. However, specifications can be modified at any time without notice.

For up-to-date product information, please visit [www.takuma.com](http://www.takuma.com)

### **Symbols used**



#### **Information:**

Indicates pertinent information making it easier to use the product.



#### **Warning:**

Indicates a potential risk that can cause slight injury or material damage if the instructions are not complied with.



#### **Danger:**

Indicates immediate danger that can cause serious and even fatal injuries and serious damage, if the instructions are not complied with.

## 1.2 Safety



To use the TAKUMA E-FOIL safely and responsibly, the following instructions must be read and complied with.

TAKUMA cannot be held liable for non-compliance with the warnings and instructions in this guide.

### 1.2.1 Navigation



#### **The following is strictly prohibited:**

It is strictly prohibited to tow a person with the TAKUMA E-FOIL in any way whatsoever. Doing so would result in serious and even fatal injuries. TAKUMA cannot be held liable in the event this warning is not complied with.

The TAKUMA E-FOIL is subject to local laws and regulations in terms of navigation. It may be necessary to obtain a license or a permit to use TAKUMA E-FOIL in certain areas or countries. Always observe local rules and regulations when using this product.

Never navigate alone.

Give priority to the right (starboard) at sea, on lakes and rivers.

At sea, when leaving the coast, move at a slow speed (less than 5 knots or 9 km/h), without flying, until you leave the coastal strip of 300 metres.

In ports, comply with the maximum speed (5 knots except for other local regulations). Do not fly.

In rivers and lakes, obtain information on the authorized navigation zones and speeds.

Observe the body of water where you will be moving about before getting into the water.

Make sure there is no dominant wind that will push you out to sea.

Be able to keep track of where you are at any time in your navigation zone.

Where did I leave from, are there any swimmers and where are they? Are there any other watercraft, where are they, how fast are they moving?

The TAKUMA E-FOIL must never be used near other people (swimmers, surfers, divers, etc.). Also always maintain a safe distance of 100m with respect to other watercraft or any other obstacle.

Do not navigate in waves, as your view of swimmers and/or surfers will be obstructed.

Do not use TAKUMA E-FOIL in shallow water (less than 2 m deep), near rocky areas or in the presence of algae, or in the open sea.

Never use TAKUMA E-FOIL in sea or weather conditions that are above your level of physical ability.

Do not use the TAKUMA E-FOIL in a thunderstorm or severe weather conditions.

The TAKUMA E-FOIL is not a piece of equipment for surfing, it is not suitable for riding breaking waves. Doing so can cause significant and personal damage. Riders do so at their own risk.

Never leave your TAKUMA E-FOIL near shore break waves. Doing so may cause serious damage. Avoid all contact between the E-FOIL and rocks, coral, sticks or other types of debris.

Do not jump on the TAKUMA E-FOIL from other watercraft or boats or vice versa.

In the event of a problem during navigation (operation ceases), lie flat on your stomach on your E-FOIL and paddle in the direction of the coast or the nearest shelter.

## 1.2.2 Users



### **Using TAKUMA E-Foil can be dangerous:**

*This product must be operated with caution and common sense. It requires some foiling ability.*

*When using this product, you are responsible for your safety as well as the risks. Always take the safety of your environment into consideration.*



### **Risk of personal injury:**

*The TAKUMA E-FOIL mast has sharp edges. Please be very cautious when preparing and operating. Avoid any impact as these sharp edges can cause serious and even fatal injuries.*

The TAKUMA E-FOIL is an individual product and should only be used by one adult at a time.

The TAKUMA E-FOIL is not to be used by children under 18 years of age.

Make sure you are able to use this product in a safe and responsible manner before you start using it. Do not use it if you are not in good physical health, if you are not an experienced swimmer, or if you are under the influence of alcohol, drugs or medications.

Maintain a safe distance from others and away from any obstacles. Check for any legal requirements and rules that may apply in your location. Observe local weather forecasts and never go out in dangerous conditions.

The following are required when using your E-FOIL:

- **a certified personal flotation device (PFD)**
- **a certified helmet**
- **a full neoprene wetsuit, booties and gloves**
- **a lighted positioning device (a waterproof torch as part of the PFD or worn by the user)**
- **a VHF radio or a waterproof mobile telephone.**

By using this product, you agree that you do so at your own risk. TAKUMA does not accept any responsibility for personal injury or material damage in the case of an accident due to incorrect use.

### 1.2.3 E-FOIL

Do not leave your TAKUMA E-FOIL in direct sunlight or moving in the wind for long periods of time when not in use.

Do not leave your TAKUMA E-FOIL on hot surfaces such as asphalt or sand for long periods of time.

Never leave your TAKUMA E-FOIL in an overheated place, such as in a hot car. Doing so may cause serious damage.

Do not run the efoil when its not in the water. Doing so will overheat and cause permanently damage the motor.

### 1.2.4 Propeller



**Risk of personal injury:**

*The TAKUMA E-FOIL propeller carries risks of serious and even fatal injuries.*

*Keep body, fingers and toes away from the TAKUMA E-FOIL's spinning propeller.*

*Never start the propeller when out of the water.*

Never remove the nozzle of the propeller.

Never touch or handle the propeller while the battery is connected. If intervention is required on the propeller (to remove a foreign body, for example), the battery must be removed first.

### 1.2.5 Electrical parts, batteries and chargers



*Before handling the electrical connections of the TAKUMA E-FOIL, the battery or the chargers, make sure you are in a dry place away from water splashes. Never operate in the water or in the presence of humidity.*

*Never open the electrical connectors when your E-FOIL is on the water.*

*Never change your battery when your E-FOIL is on the water.*

*Do not attempt to open or modify the electrical parts, battery or charger.*

Do not use other batteries or chargers than those sold by TAKUMA. Any damage caused by the use of another battery or charger will not be covered by warranty.

Place the battery and the charger in a clean and dry place, out of the reach of children under 18 years old.

Keep the battery away from fire, heating sources and out of direct sunlight.

The battery must be used in the temperature range from 0°C to 40°C. Do not use or charge the battery at high temperature. Use of the battery in environments above 40°C can lead to a fire or an explosion.

Avoid any impact on the battery.

Please check the battery carefully before each use.

Make sure there is no corrosion in the battery before charging or before connecting to your E-FOIL.



*Do not charge or use a damaged battery, if it was involved in any kind of heavy impact or crash.*

*Please contact your local TAKUMA dealer for further assistance.*

**Signs of a damaged battery:**

*Loose screws/rivets/connectors*

*Split or deformed case*

*Acidic smell*

*Unusually hot temperature during charging (80°C or more)*

Always charge the battery with the special charger provided by TAKUMA.

The battery charger must be used in a standard voltage outlet (110V or 220/230V).

Always charge your battery in a dry place.

If the battery has been exposed to water, place it in a cool dry place until it is totally dry.

If a charger is wet, stop using it immediately.

Do not let the battery terminals (+ and -) come into contact.

Do not charge the battery when you are not home.

Do not leave the charger plugged when not used.

If the product is not to be used for a long time, the battery needs to be charged every 3 months in order to preserve its service life.

Do not disassemble the battery in any way it may leak, catch fire or explode.

Use of the battery below 0°C can lead to permanent damage to the battery.

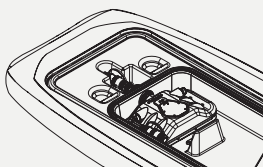
### 1.2.6 Electronic Speed Control (ESC)



*The ESC is mounted inside the TAKUMA E-FOIL.*

*It allows you to vary the propeller's speed via the remote control.*

*It is controlled by the remote control.*



**Connectors:**

*Never allow sand and/or water to get in the connectors of the ESC or battery, or it may cause significant damage.*

Do not use other ESC than the one sold by TAKUMA. Any damage caused by the use of another ESC will not be covered by warranty.

The ESC must be stored so as to remain clean and dry.

Keep the ESC away from sources of heat and out of direct sunlight. Avoid any high temperatures.

Do not leave or use the ESC near fire.

Do not alter or disassemble the ESC.

Prevent any impact with the ESC and do not drop it.

If your ESC is damaged, contact your TAKUMA authorized dealer for further assistance.

### 1.2.7 Remote control

Do not open the waterproof case.

Do not modify or disassemble the device. If the device becomes damaged, stop using it immediately.

Do not expose this device to extreme temperature.

Never use the device near medical devices and/or near a person with an electronic medical device (such as pacemaker, etc.).

Do not use the device in an airplane.

## 2. PACKAGE CONTENTS

### 1.3 Battery and components disposal

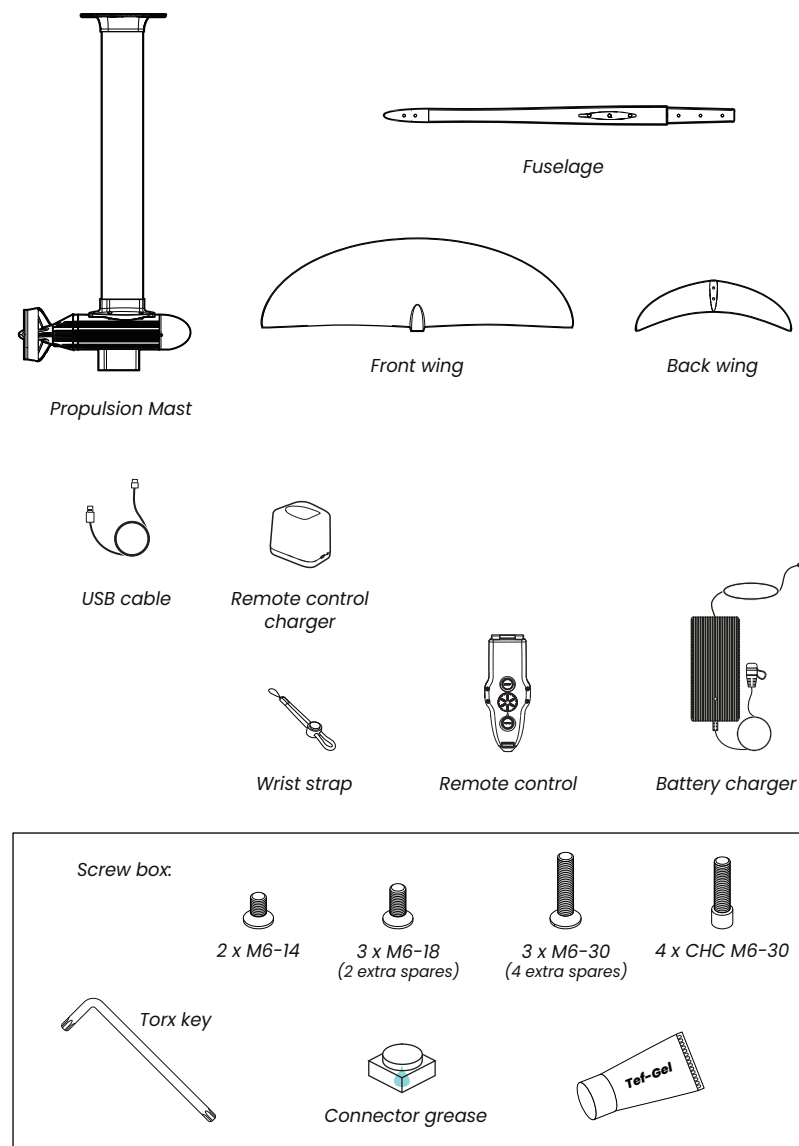
When it is suspected that the device is no longer safe, for example after damage incurred during transport or use, the defective device must be taken out of service. It is necessary to ensure that it will not be used later. Please contact your local TAKUMA dealer for more information.

The defective product will be entrusted to authorized technicians for the purposes of control.



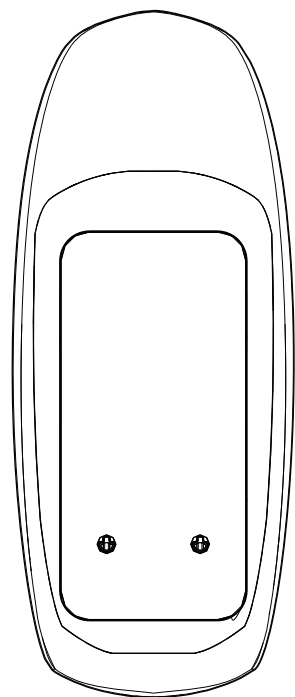
*This marking indicates, in the European Union, electric and electronic devices that must be separated from household waste. In order to preserve the environment, this device must be disposed of in compliance with the appropriate sectors according to the national regulations of each Member State.*

#### Box 1:

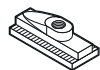
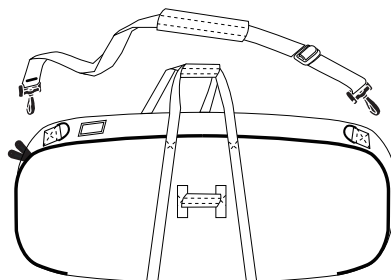


## 3. PREPARATION

### Box 2:

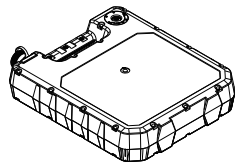


Board

4xTNuts  
(preassembled in the foil box)4xM6-14  
(preassembled in the foil box)

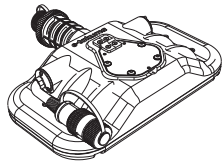
Board bag

### Box 3:



Battery

### Box 4:



ESC

### 3.1 Battery Charging



**Before using for the first time, charge the battery 100%.**

Charge the battery at least once within 3 months after delivery.

The battery will reach its full capacity after 3 or 4 charging/ discharging cycles.

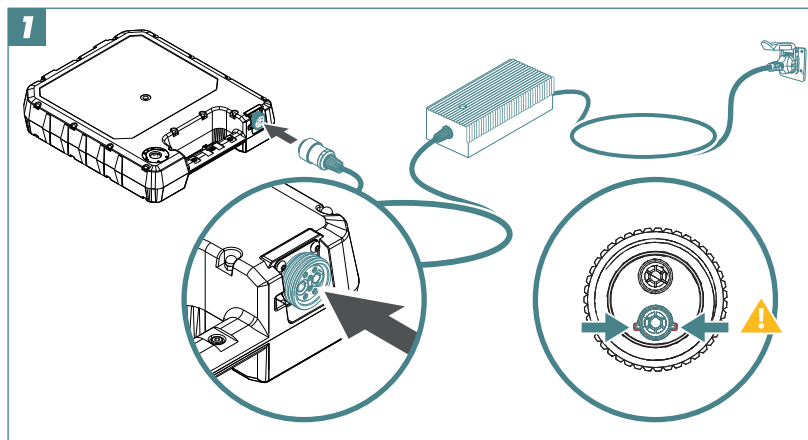


Check that the device and the battery connector are completely dry. Ensure that you are in a dry place away from splashes of water. Never operate in the water or in the presence of humidity.

Do not charge immediately after use. Charging a hot or cold battery can damage cells. Wait 30mins to 1hr to let the battery cool down or warm up to room temperature.

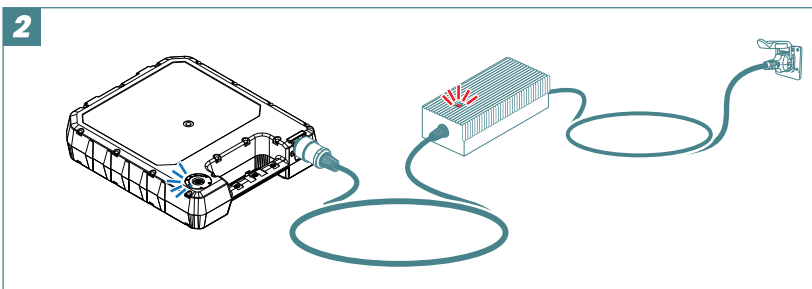
Best temperature for charging is between 15-25c.

Do not drop battery.

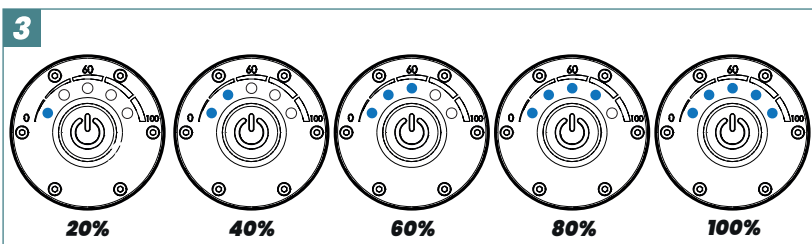


The pins will only connect if the notches are properly aligned. No great force is needed.

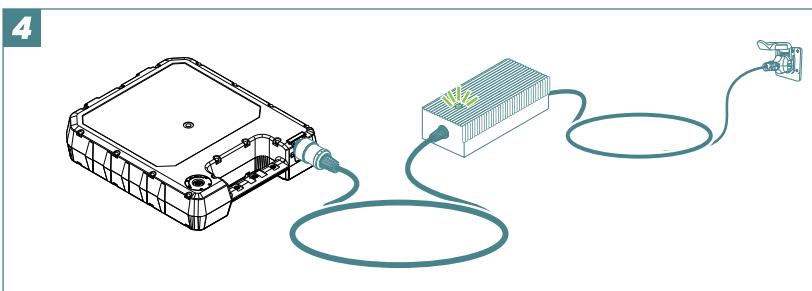




Once the battery is connected to the charger, the light on the charger should turn red.



The blue battery LEDs allow you to monitor the progression of the charge.



Once the battery is fully charged, all the LEDs go out and the charger indicator turns to green.

Disconnect the charger from the wall socket.

Disconnect the battery from the charger. Place the protections back on the connectors in order to ensure watertightness.

## 3.2 Remote Charging



**Before using for the first time, charge the remote control 100%.**

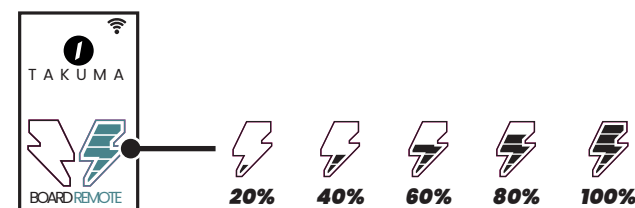
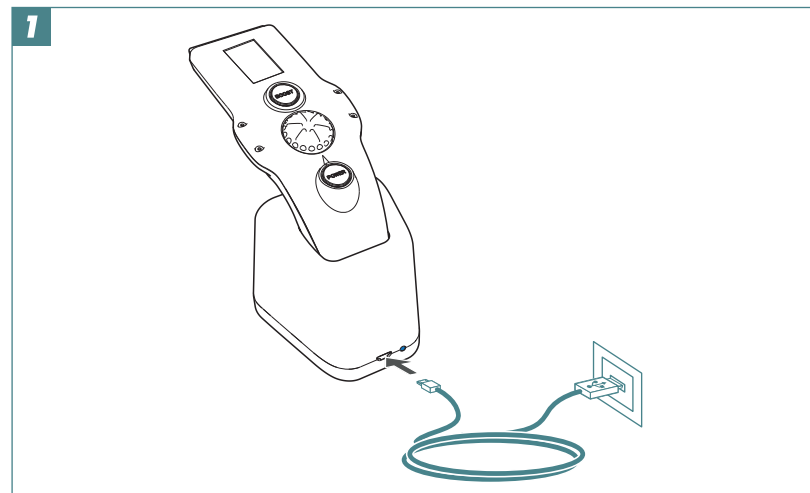
Charge the remote control at least once within 3 months after delivery.



Please remove the remote control lanyard when charging. Put it back in place before using the remote control.



*The remote control must be completely dry before charging.*



## 4. ASSEMBLY

EN

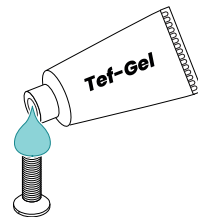


To facilitate the assembly of the TAKUMA E-FOIL, we recommend watching the tutorials on our channel <http://youtube.takuma.com>

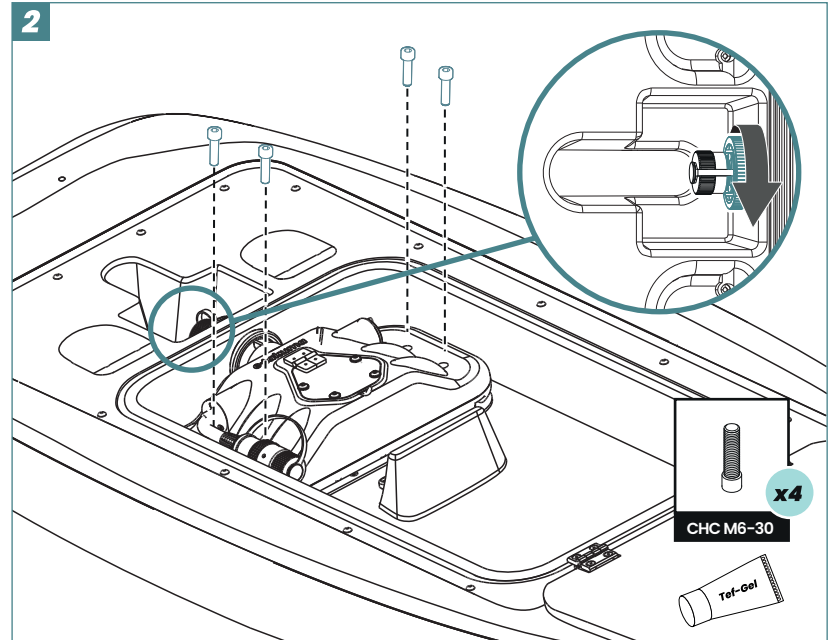
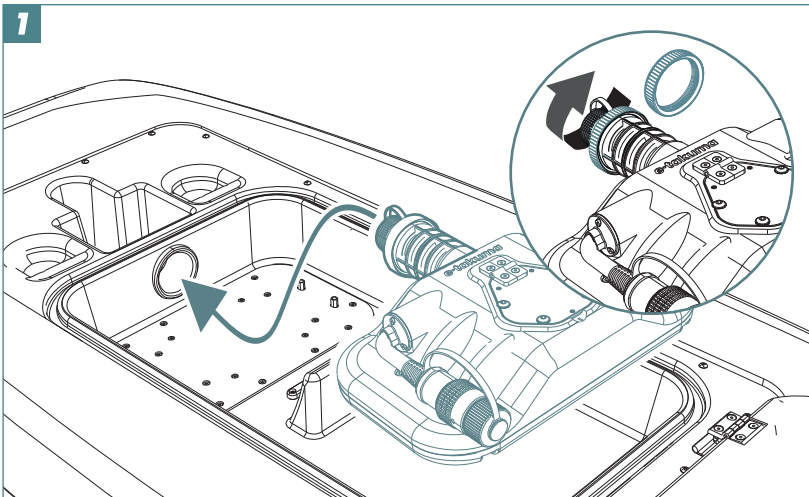


Assemble your E-FOIL TAKUMA in a clean and dry place.

Apply TEF GEL on all screws to avoid corrosion.

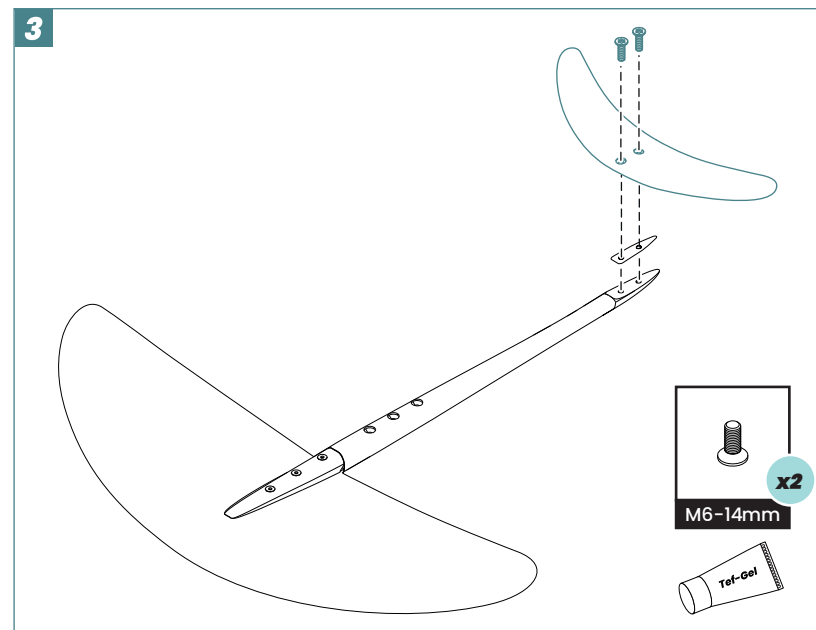
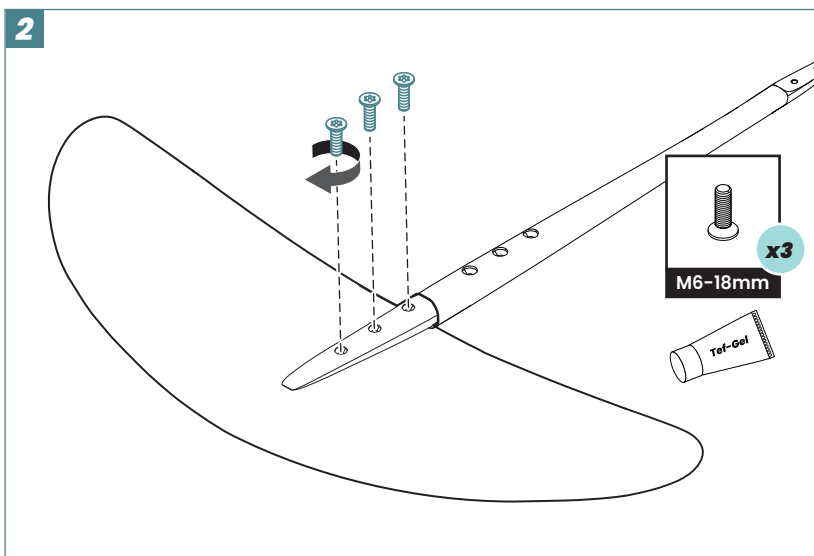
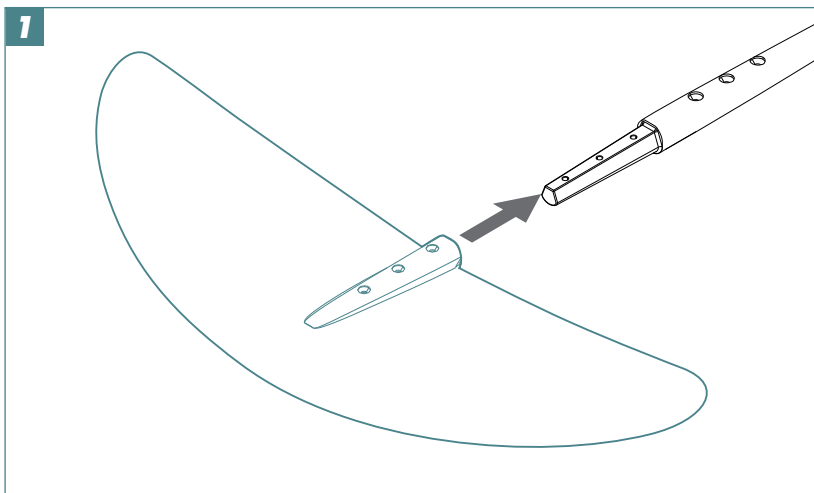


### 4.1 ESC Installation

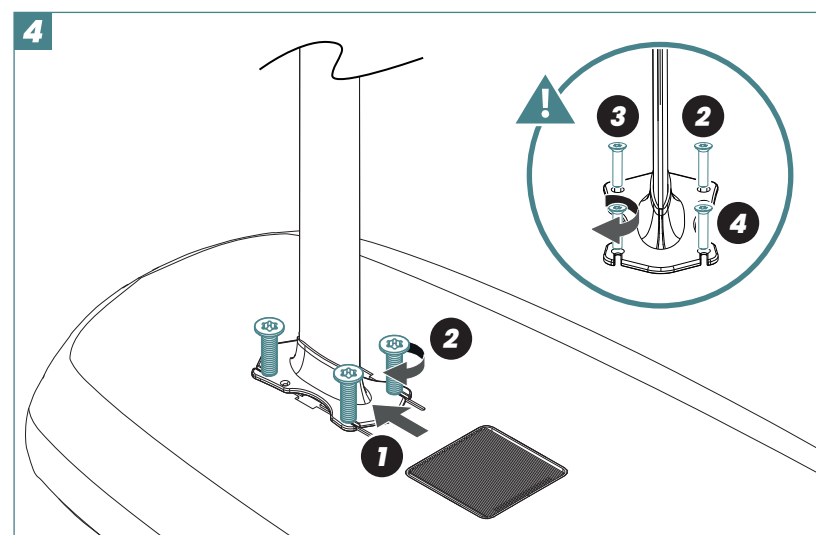
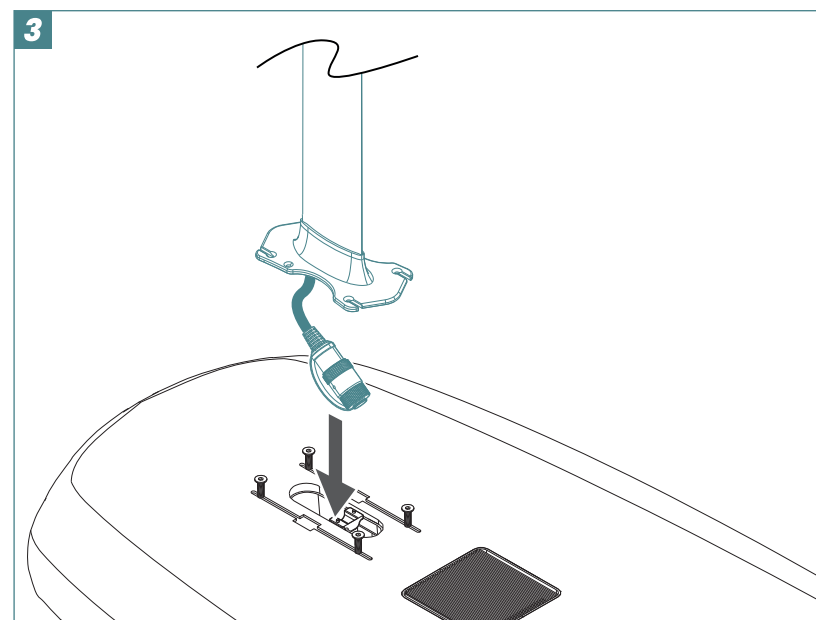
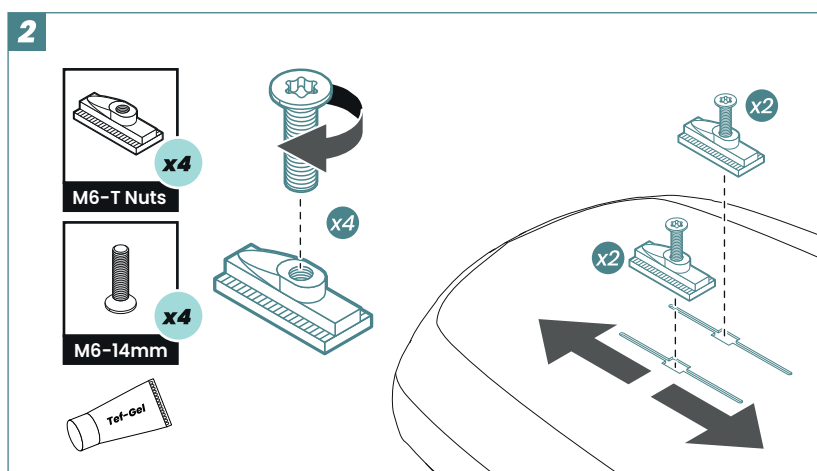
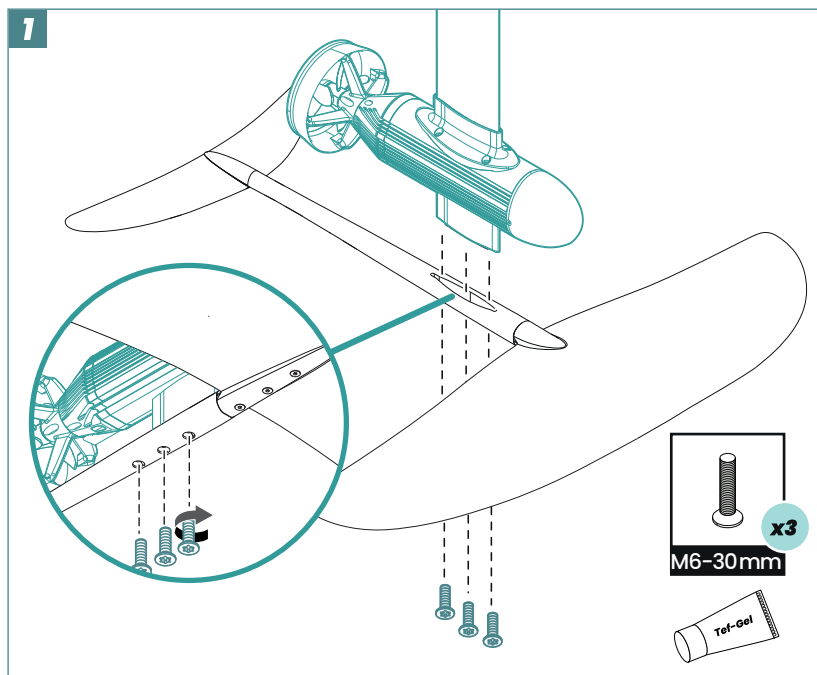


## 4.2 Propulsion and Foil Assembly

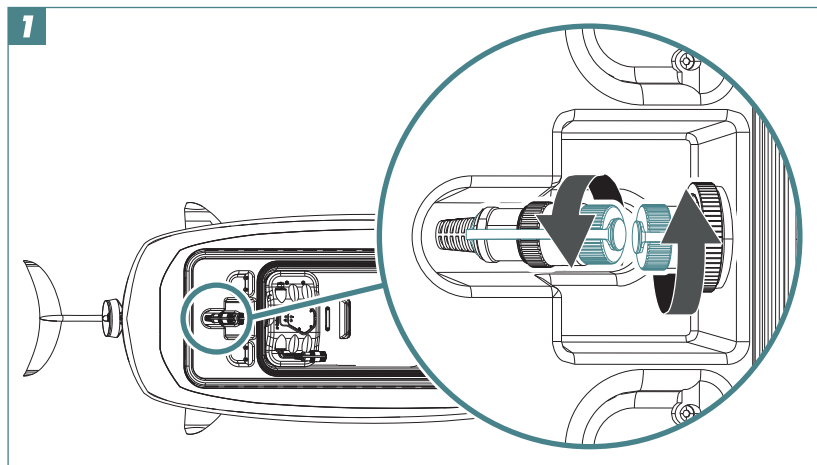
### The wings



## The mast

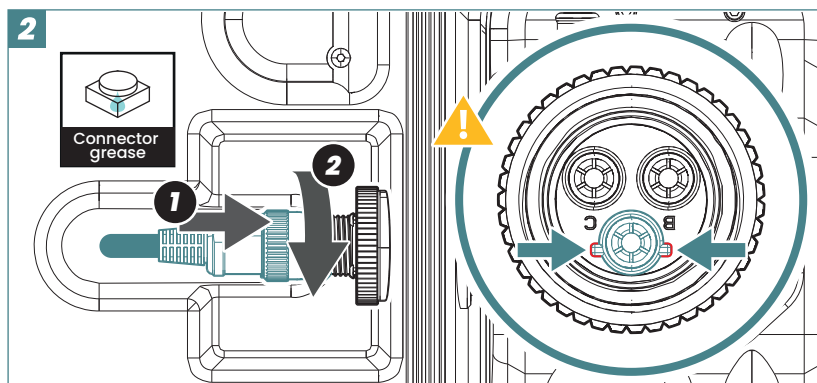


### 4.3 Propulsion to ESC connection



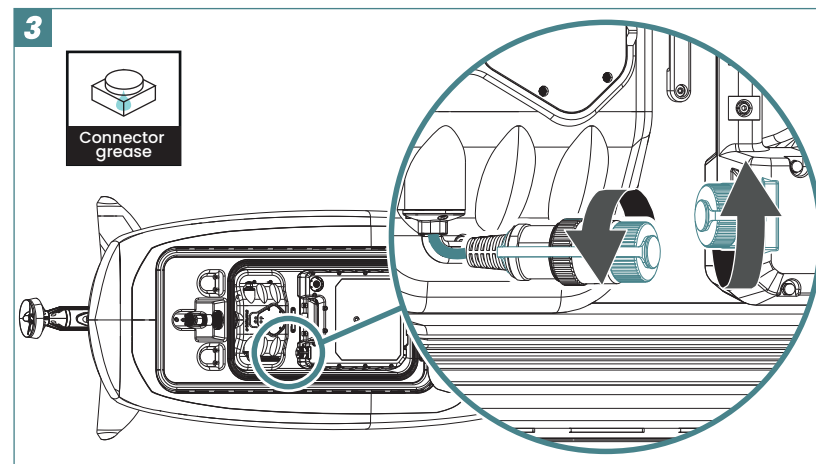
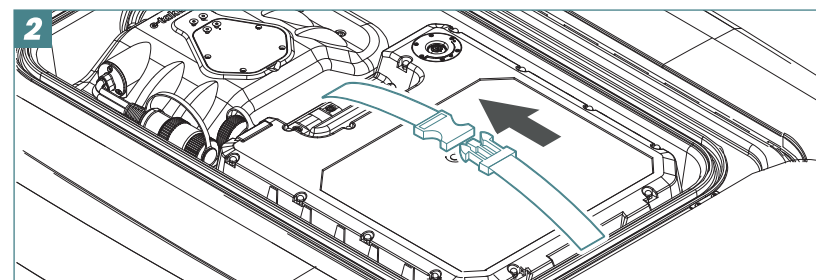
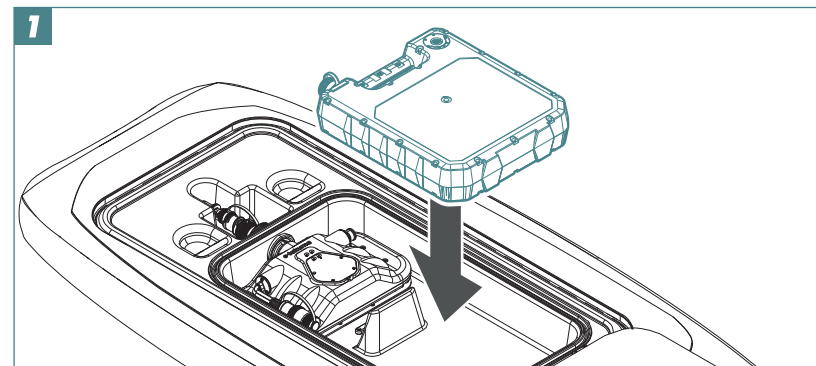
**After removing the 2 caps:**

Screw together the 2 M/F caps of the connectors.



The pins will only connect if the notches are properly aligned. No great force is needed.

### 4.4 Battery Installation



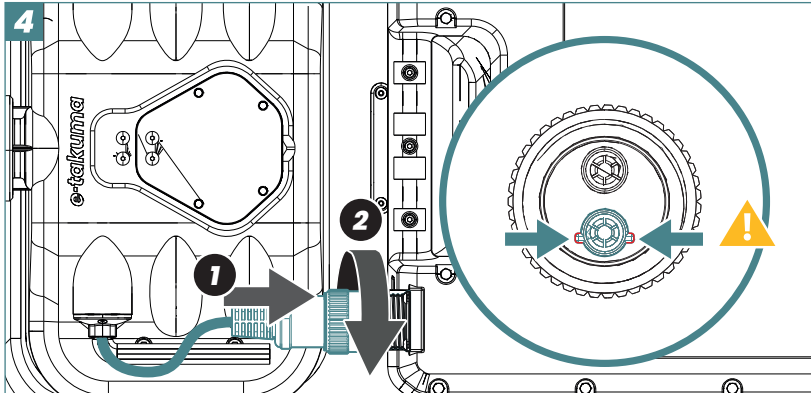
## 5. USE

EN



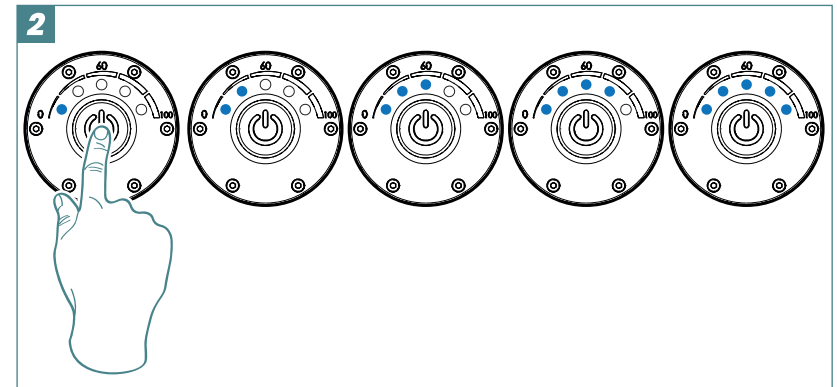
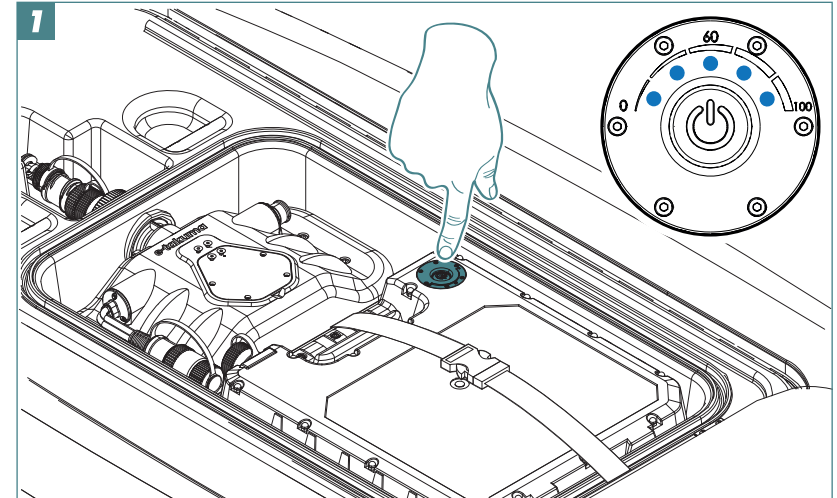
**After removing the 2 caps:**

Screw together the 2 M/F caps of the connectors.



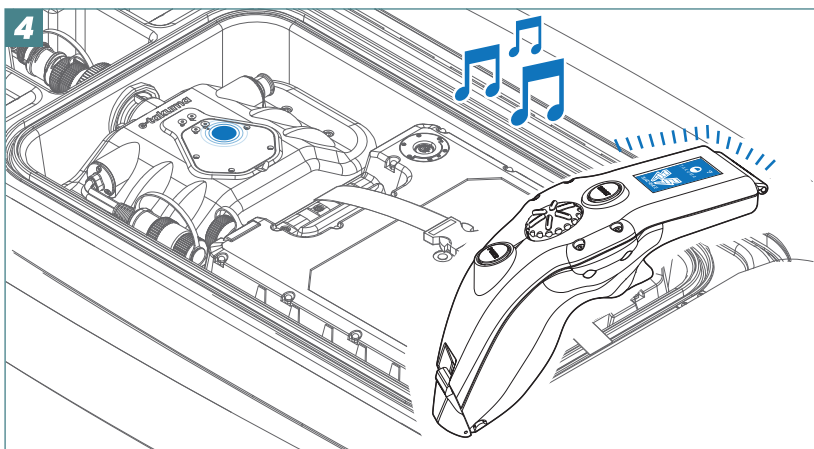
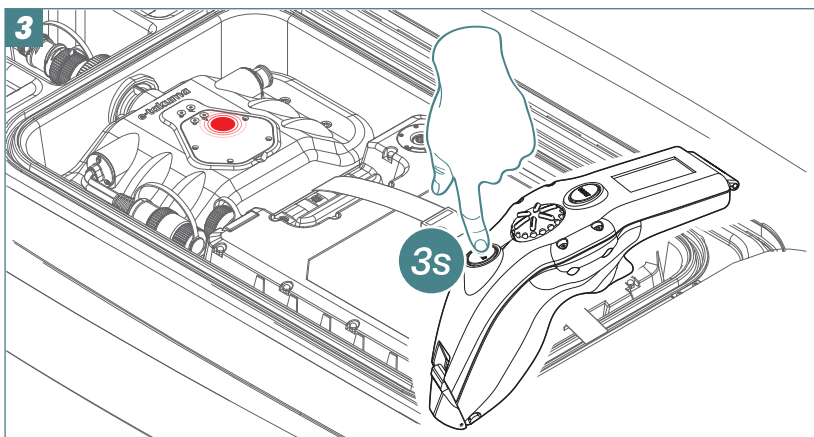
The pins will only connect if the notches are properly aligned. No great force is needed.

### 5.1 Activation and Pairing



Keep you finger on the button until all 5 led lights are on.





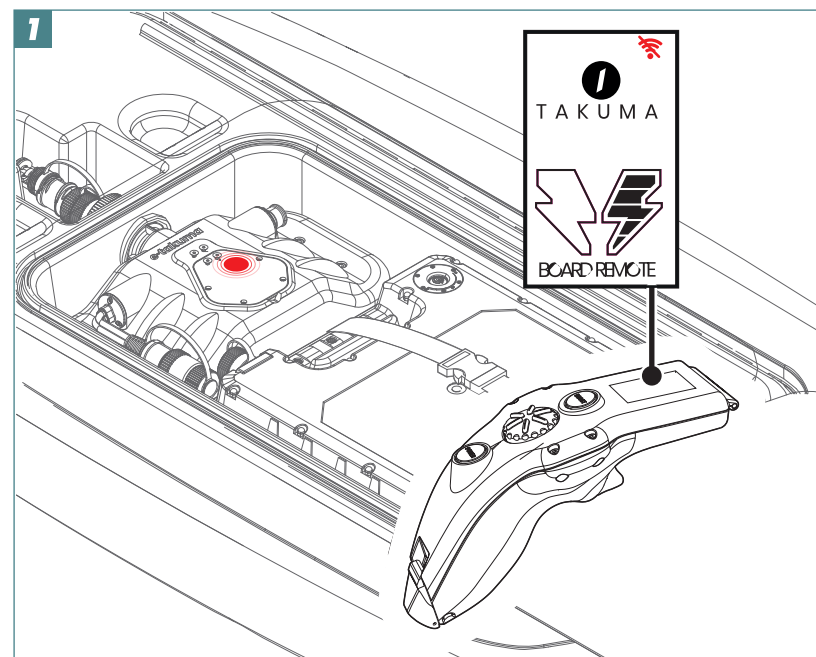
## 5.2 Pairing Failure

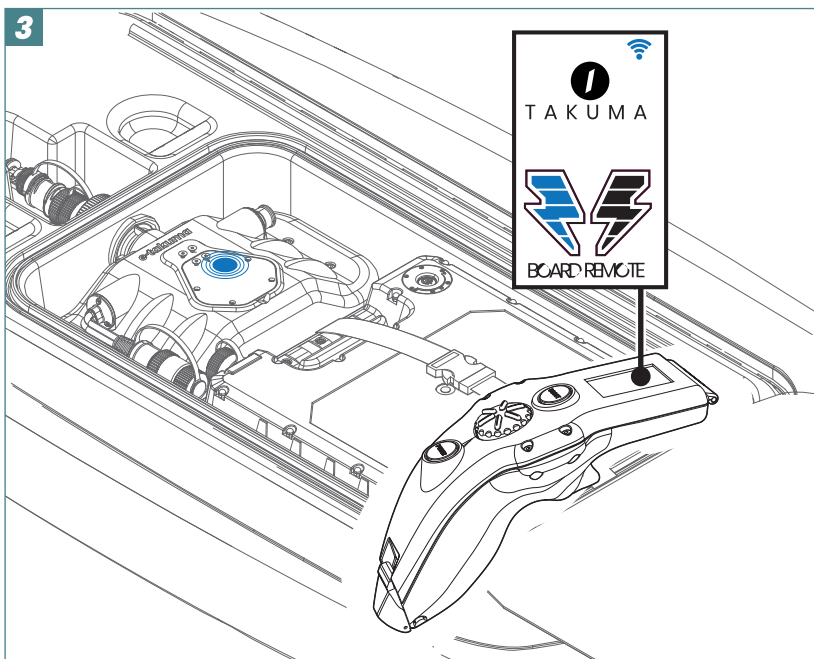
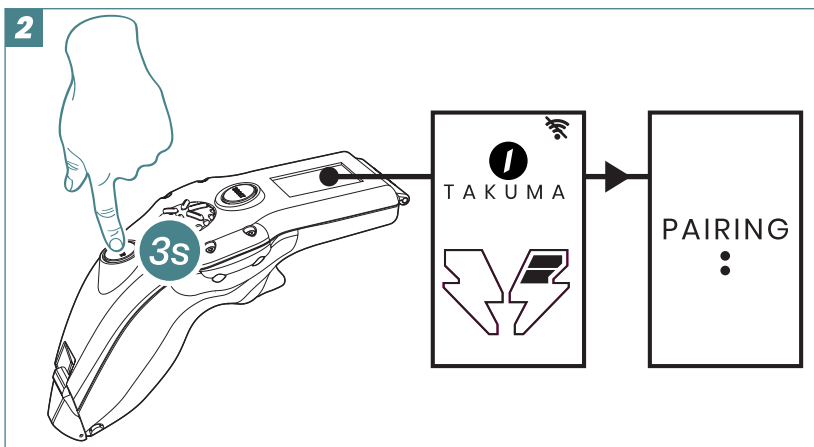


If the ESC light remains red, this means that the remote control cannot connect to the board.

The barred wifi symbol is displayed in the upper right-hand corner of the screen.

Try to pair again, turn off the remote and battery and repeat the activation and pairing steps.



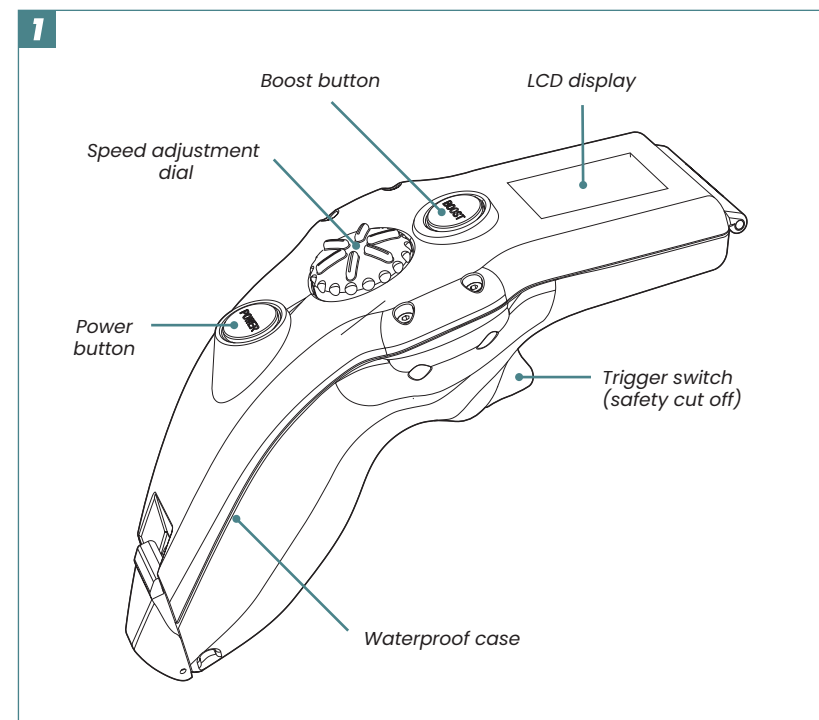


## 5.3 How to use remote



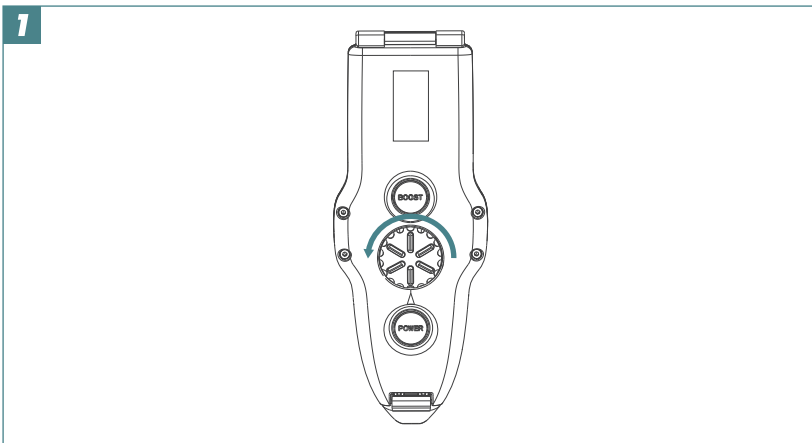
To facilitate learning how to use the TAKUMA E-FOIL, we recommend watching the tutorials on our channel <http://youtube.takuma.com>. We also recommend to start practicing with an instructor.

### 5.3.1 Remote control

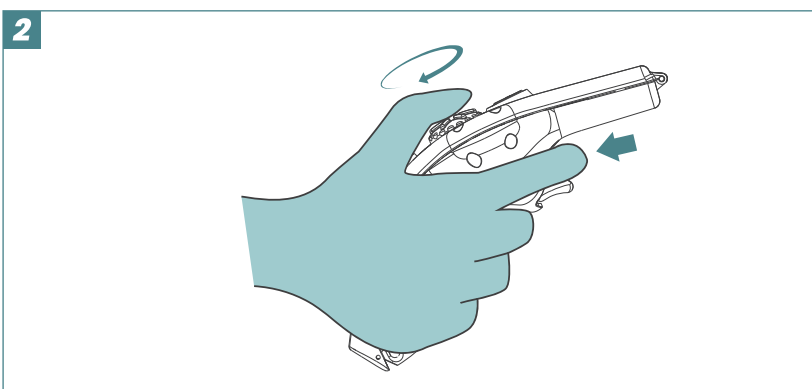




### 5.3.2 Trigger switch and speed adjustment dial



The speed adjustment dial must be at the minimum setting before you can start the propulsion.

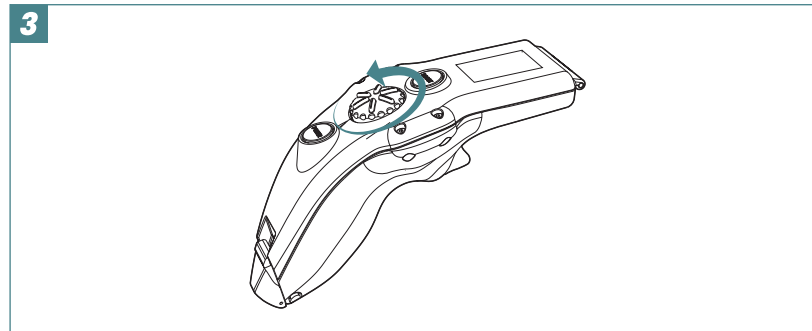


Press down on the trigger and turn speed adjustment dial to start the propulsion.

The trigger must be pressed continuously during the entire use.

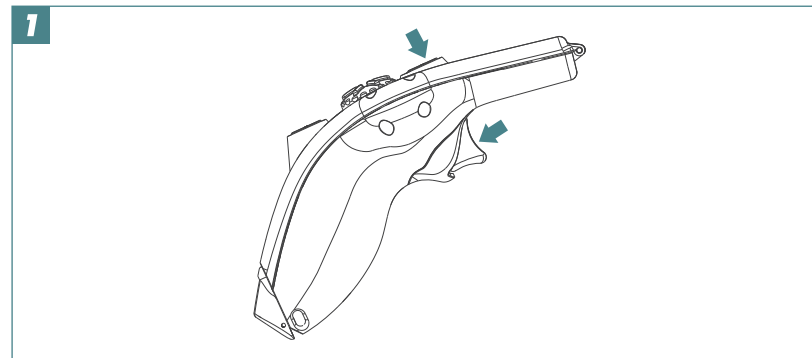
Turn the speed adjustment dial to adjust speed.

Once the trigger is released the propulsion stops.



When you release the trigger, the speed adjustment dial must always be set back to the minimum setting before you can start the propulsion again.

### 5.3.3 Boost mode



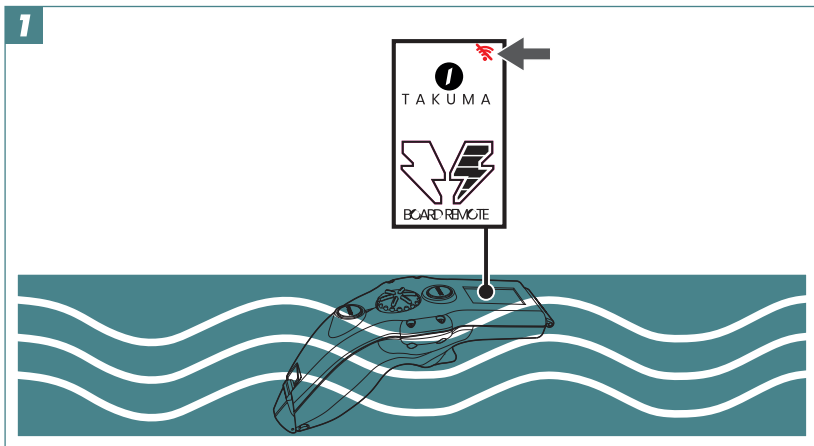
Pressing the boost button increases the speed by 20%.

Releasing the button will return you to the initial speed.

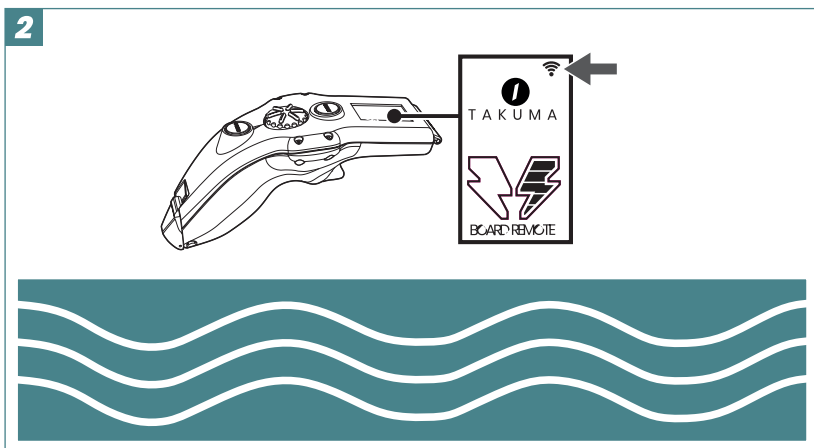


*Boost mode will allow beginners to have a much smoother take off. You can then take off more easily, without having to adjust the speed.*

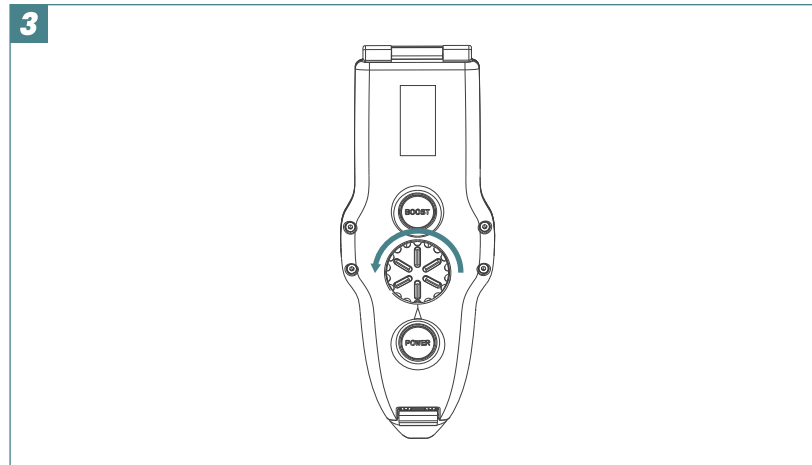
## 5.4 Safety Cut Off



If the remote hits the water the connection and the motor will cut off.

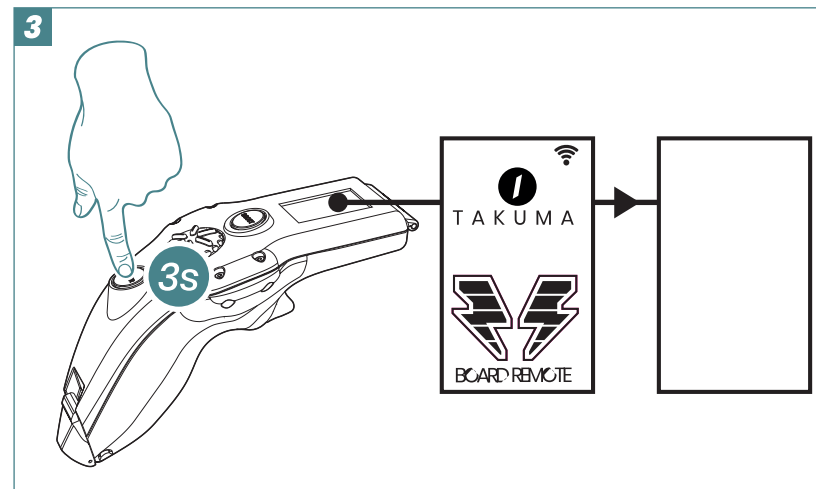
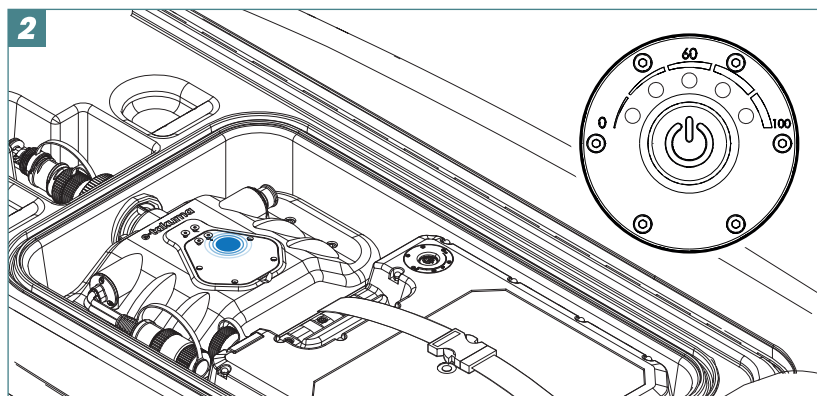
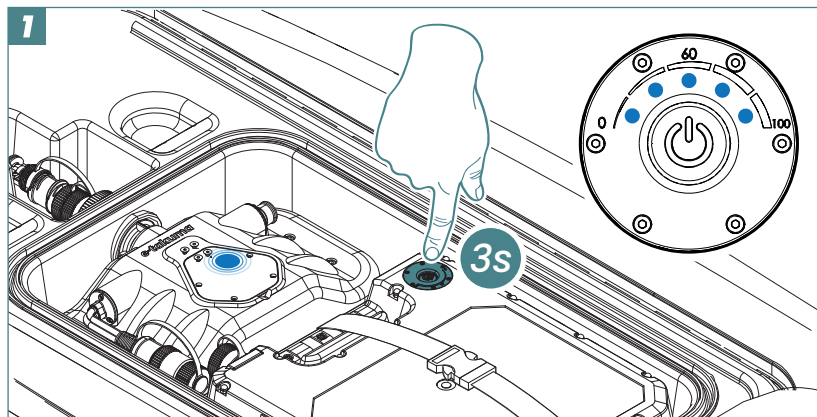


The signal automatically comes back on when the remote control is outside the water.



The speed adjustment dial must be put back to the minimum setting before starting the propulsion again.

## 5.5 Power off



## 6. MAINTENANCE & AFTER USE

### **Maintain your E-FOIL after each use:**



*The TAKUMA E-FOIL needs to be checked regularly and maintained to ensure good working order and to reduce the risks of degradation.*

*Never allow sand and/or seawater to get in the connectors or it may cause significant damage.*

*Check your E-FOIL thoroughly after each use to make sure everything is OK (screws, cover etc.)*

*Only pack your E-Foil away after it is completely dry. Before storage, always check that it is completely dry.*

*Apply TEF GEL on the screws regularly.*

*If needed, contact your TAKUMA authorized dealer for assistance.*

After each use, rinse your E-FOIL: Open the top cover of the board and rinse with fresh water without disconnecting the cables.

Also rinse the propulsion mast and the propeller.

Dry the inside of the board with a clean dry cloth until there is no sign of water left.

Also dry the ESC, the battery, the protections of the connectors.

If the connectors get wet, rinse them with clean fresh water, then use a canister of compressed air to blow out the water. Apply contact lubricant (such as WD40). Use a jet of compressed air to remove any excess lubricant. Once the connector covers are dry, screw them directly back onto the connectors.

Remove the battery. Dry it completely and store it in a dry place.

### **Storage**

Do not place the battery directly on sand or immerse in water. Keep the Battery and remote control out of direct sunlight.

Once the battery is charged, disconnect. Do not store the battery on continuous charge.

For optimum battery lifespan, we recommend you charge the battery to 80% if storing for a long period of time.

Best temperature for battery storage is between 10-25c.

## 7. WARRANTY

EN



Please refer to our website to review our warranty policy:

[takuma.com](https://takuma.com)

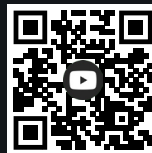


**After-Sales Service:**

**customerservices@takuma.com**

**Please find our tutorial videos on our youtube channel:**

**<http://youtube.takuma.com>**



**Other languages:**

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