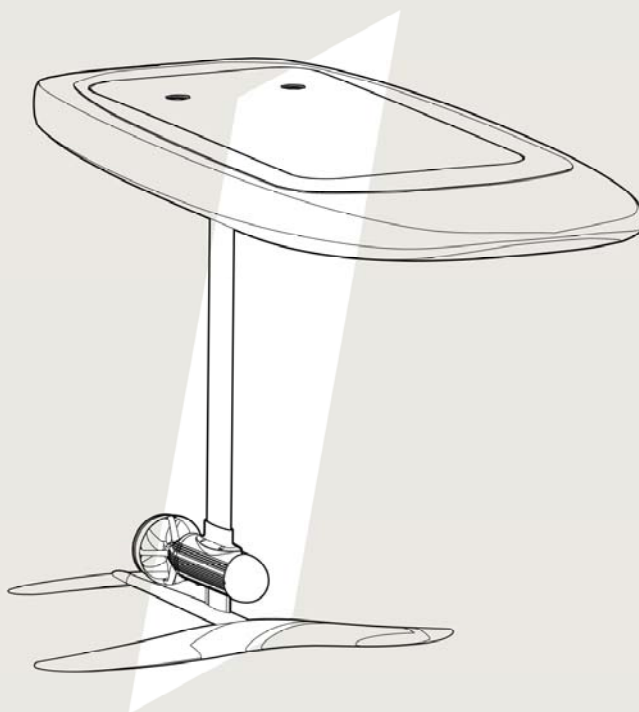


e-foil

EN

USER'S GUIDE



takuma
fly above water

Contents

1. GENERAL	2
1.1 About	2
1.2 Safety	3
1.3 Battery and components disposal	10
2. PACKAGE CONTENTS	11
3. PREPARATION	13
3.1 Battery Charging	13
3.2 Remote Charging	15
4. ASSEMBLY	16
4.1 ESC Installation	16
4.2 ESC Antenna Installation	17
4.2 Foil and Propulsion Assembly	18
4.3 Propulsion to ESC connection	23
4.4 Battery Installation	24
5. USE	26
5.1 Activation and Pairing	26
5.2 Pairing Failure	28
5.3 How to use remote	30
5.4 Safety Cut Off	33
5.5 Low battery warning	34
5.6 Power off	35
6. MAINTENANCE & AFTER USE	36
7. WARRANTY	37

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.



Copyright © 2021 by TAKUMA.

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

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.

1.2.2 Users

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.

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 operate your TAKUMA E-FOIL when it is not in the water. Doing so will cause it to overheat and may 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 or charge a damaged battery, if it was involved in any kind of heavy impact or crash. Doing so can cause the battery to catch fire.

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)



Do not disassemble the battery in any way. Water may penetrate causing battery to catch fire or explode.

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.

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

Avoid any form of impact or physical damage.

Always inspect before every use.

Do not use if there's visible damage or cracks on the housing, loose screws, acidic smell. Doing so can lead to fire.

Do not let the connectors come in contact with water or wet hands.

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

After use, make sure battery cap is completely dry before screwing back on.

Only use the charger supplied to charge the battery.

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.

Never leave unattended while charging.

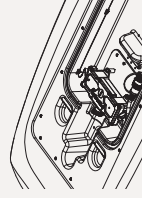
Do not leave the charger plugged in when not used.

If the battery is not to be used for a long time, then it needs to be charged every 3 months to 80% in order to preserve its lifespan.

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.

If the product is not to be used for an extended period, 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 remote control 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

EN

1.3 Battery and components disposal

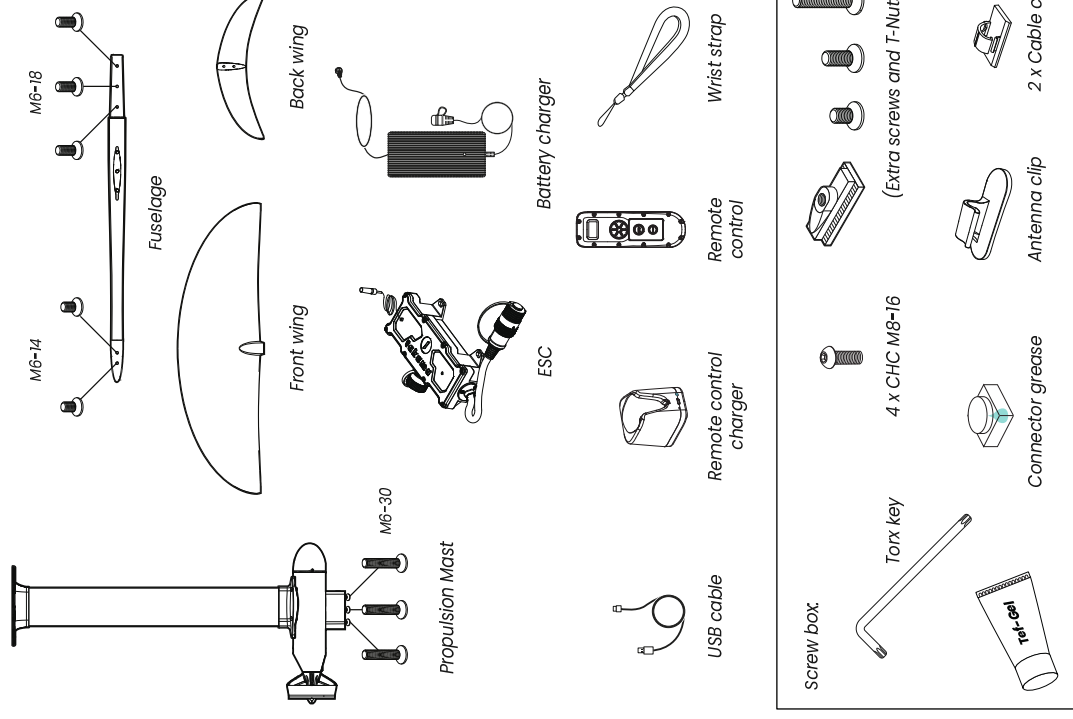
When it is suspected that the device is no longer safe, for example after damage incurred during transport or use, the defective device must be taken out of service. It is necessary to ensure that it will not be used later. Please contact your local TAKUMA dealer for more information.

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.

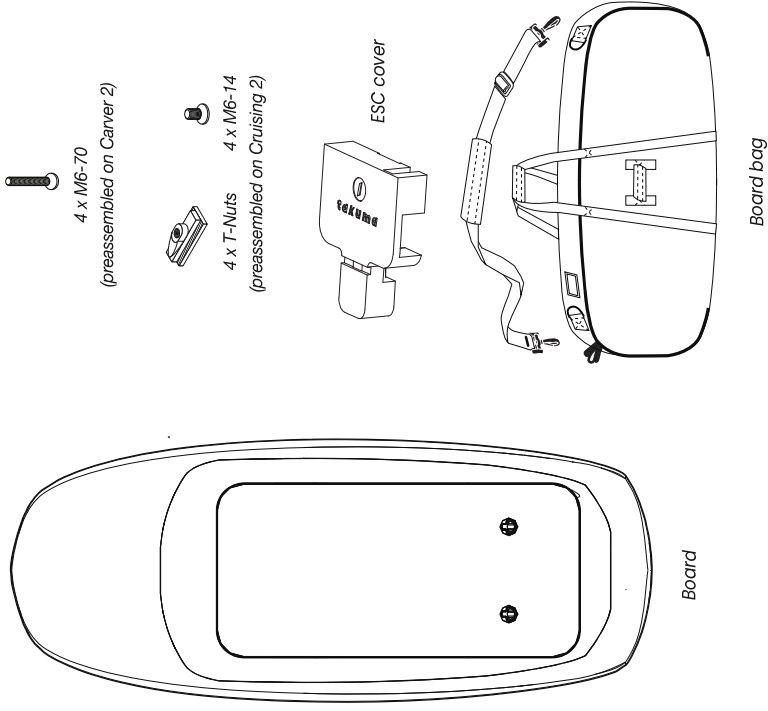
Box 1:



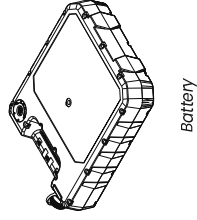
3. PREPARATION

EN

Box 2:



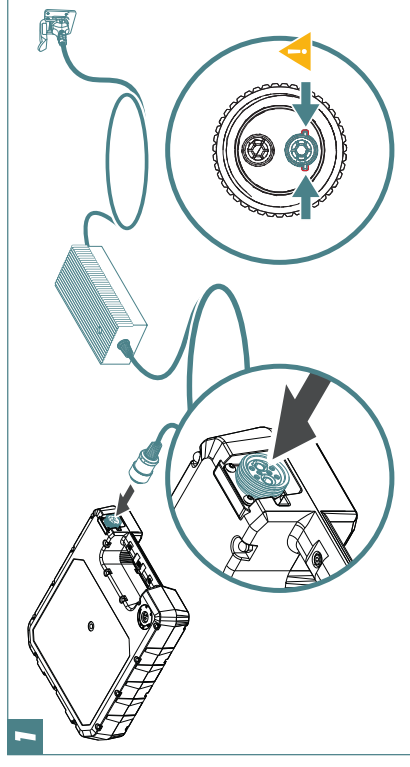
Box 3:



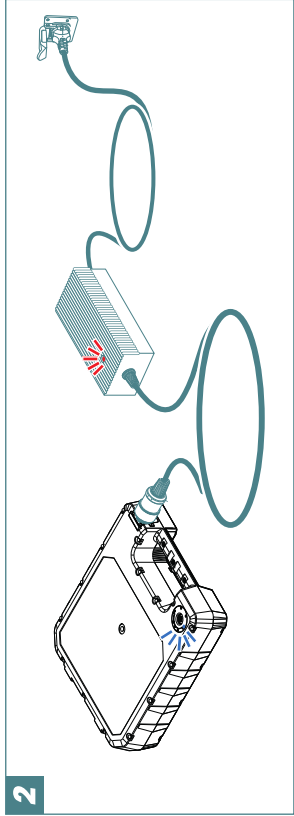
3.1 Battery Charging

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.

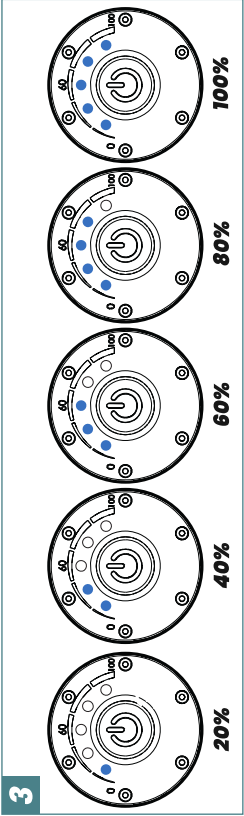
Check that the device and the battery connector are completely dry.
Ensure that you are in a dry place away from splashes of water.
Never operate in the water or in the presence of humidity.
Do not charge immediately after use. Charging a hot or cold battery
can damage cells. Wait 30mins to 1hr to let the battery cool down or
warm up to room temperature.
Best temperature for charging is between 15-25°C.
Do not drop battery.
Charging a damaged battery can cause the battery to catch fire.



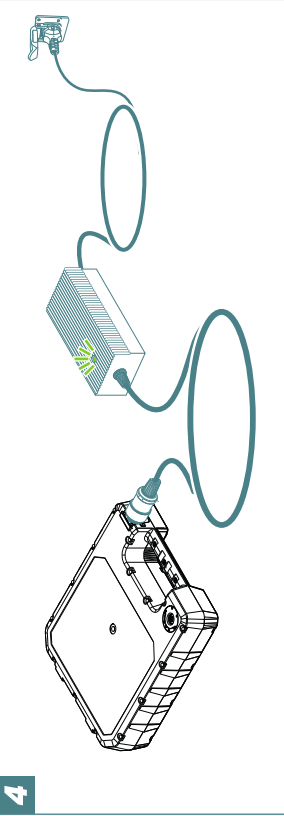
The pins will only connect if the notches are properly aligned. No
great force is needed.



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



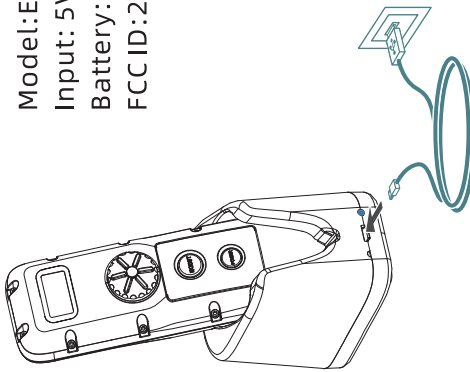
Before using for the first time, charge the remote control 100%.
Charge the remote control at least once within 3 months after delivery.

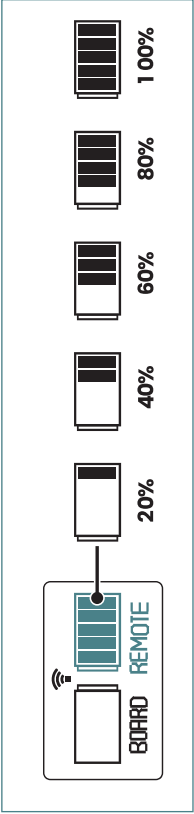


The remote control must be completely dry before charging.

1

Model: E- Foil-R01
Input: 5V 1.0A
Battery: 3.7V, 300mAh
FCC ID: 2ATOAE-F-R-A





1. Please use 5v1.0a charger.
2. Please use the micro usb charging cable to connect the wireless charging base.
3. The light is blue when charging, and the remote controller will automatically shut down to protect after being fully charged.

4. ASSEMBLY

EN



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

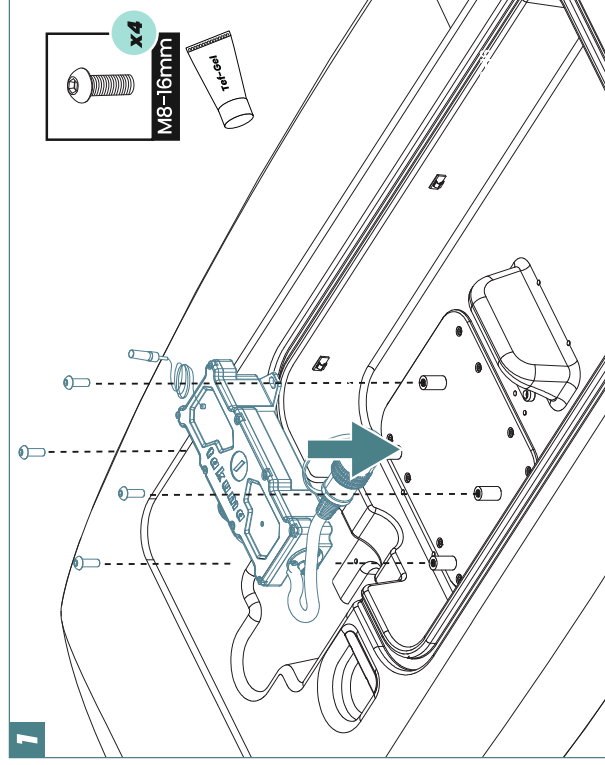


Assemble your TAKUMA E-FOIL in a clean and dry place.



Apply TEF GEL on all screws to avoid corrosion.

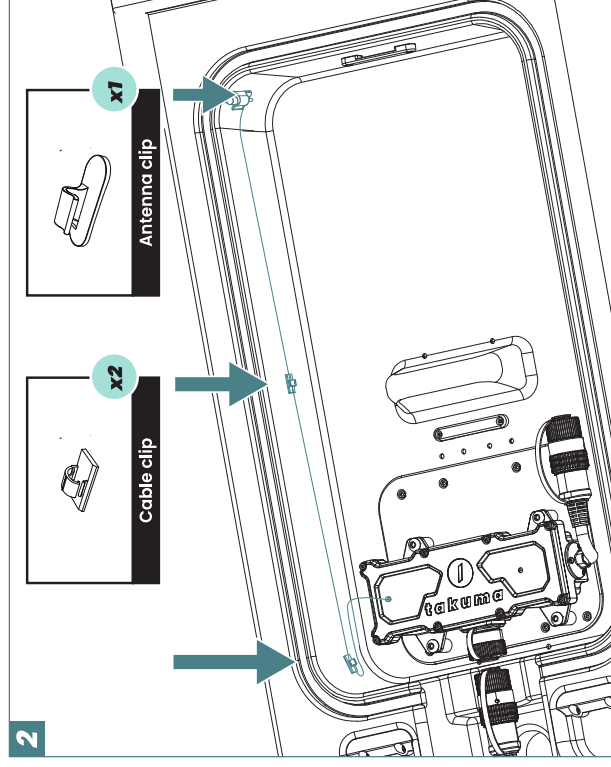
4.1 ESC Installation



4.2 ESC Antenna Installation

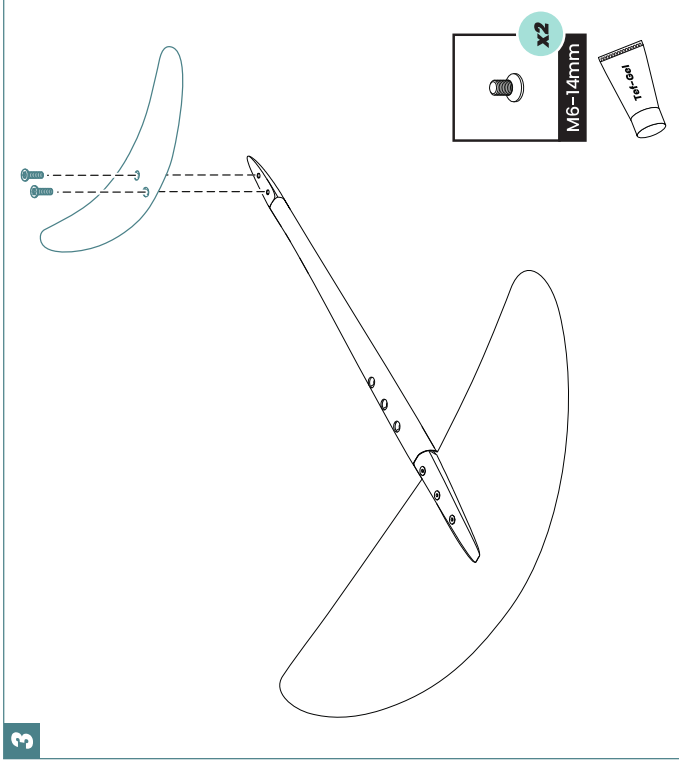
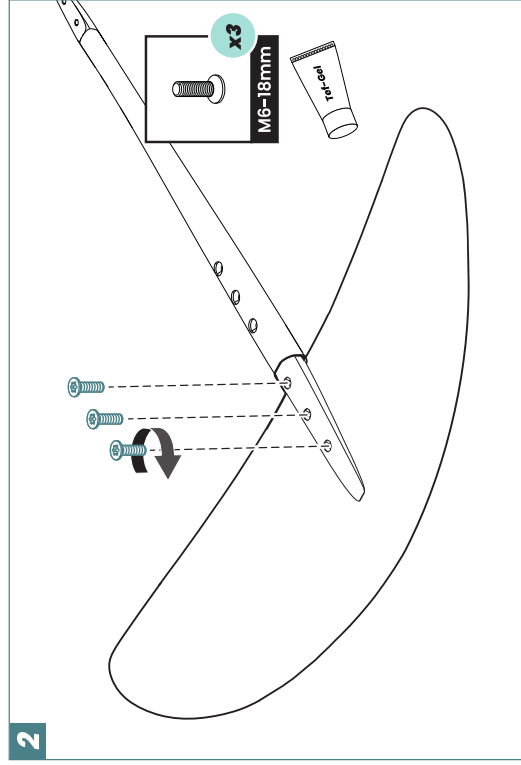
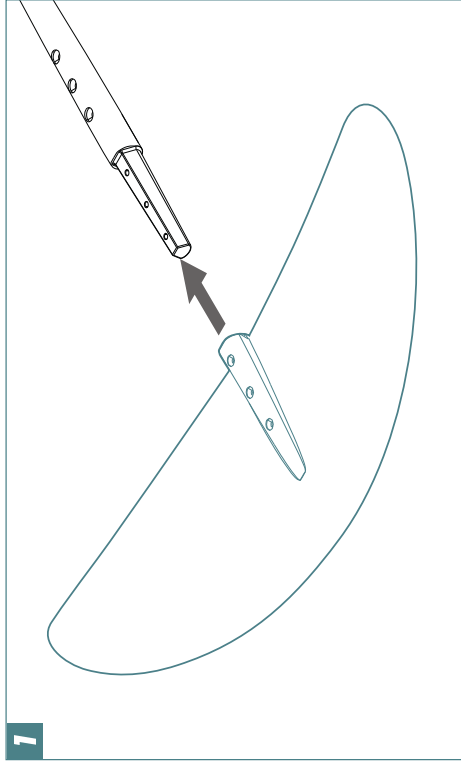


Clean area with alcohol and allow to dry before attaching clips.
Place antenna near the top without obstructing the lid from closing.

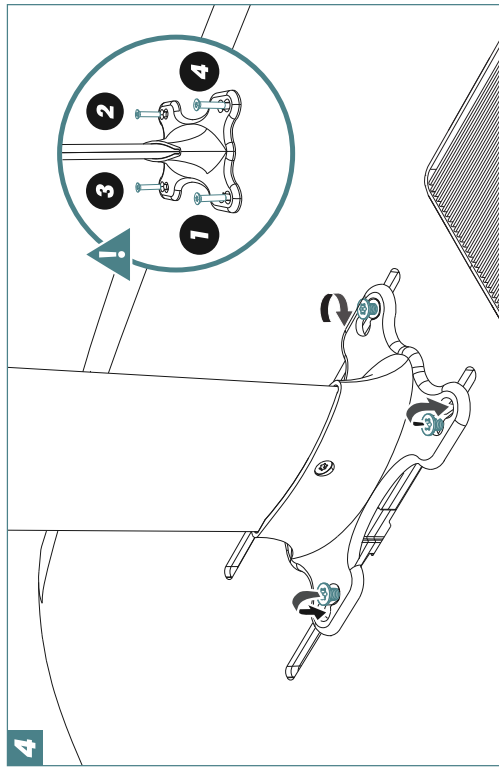
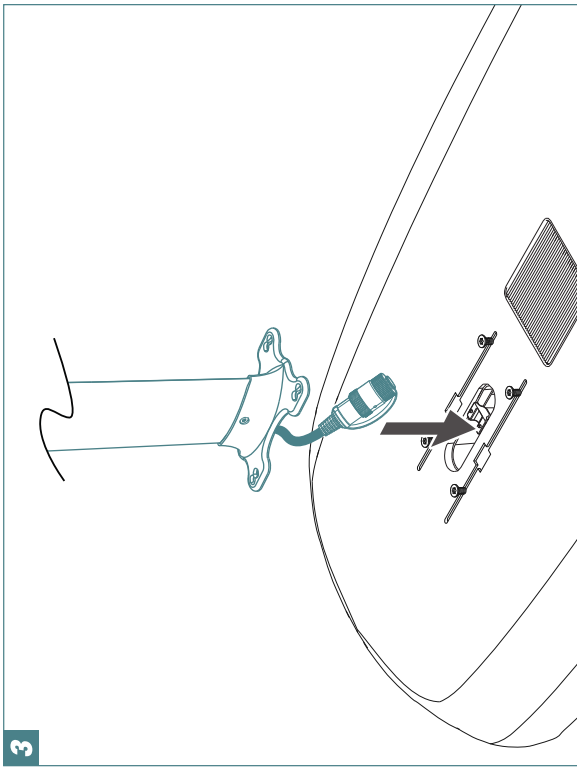
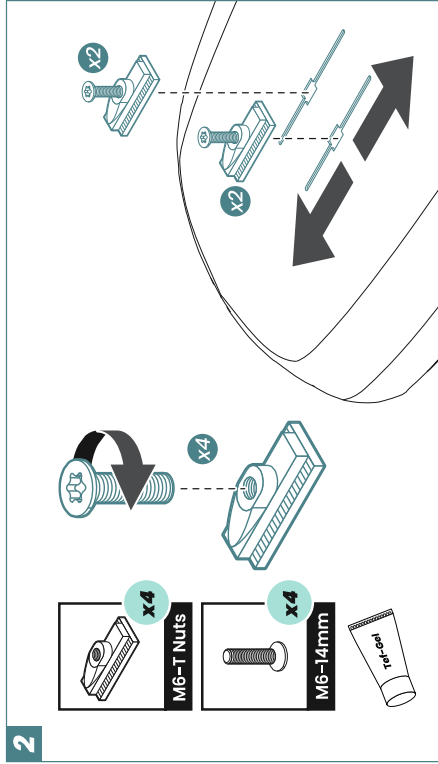
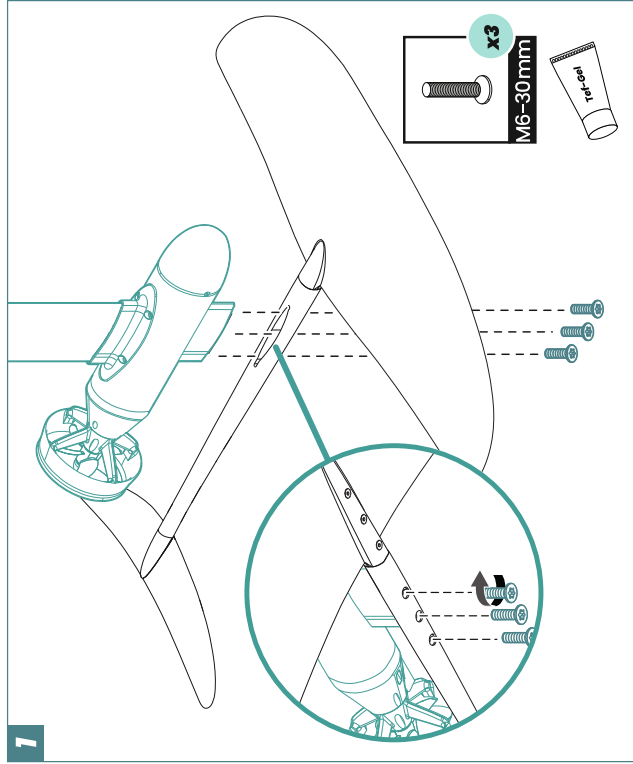


4.3 Foil and Propulsion Assembly

The wings

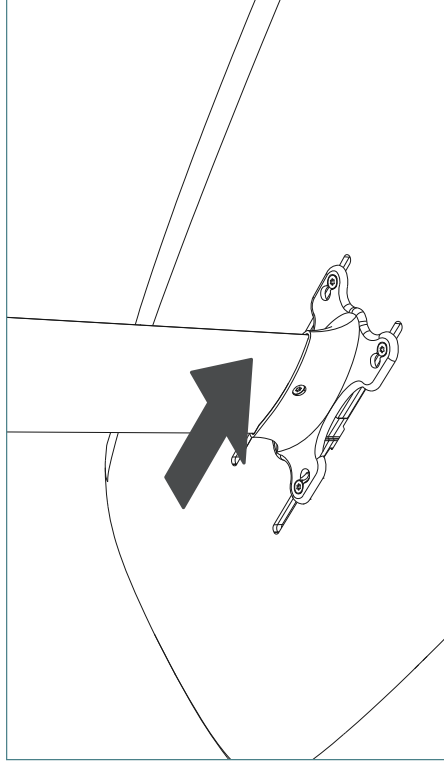


The mast

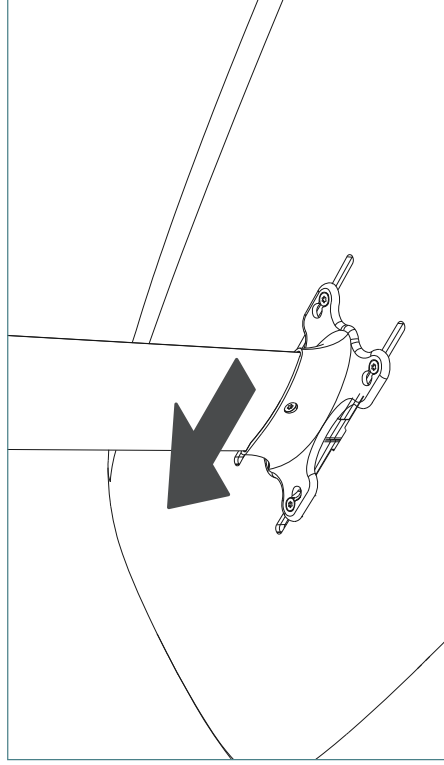


Foil Position

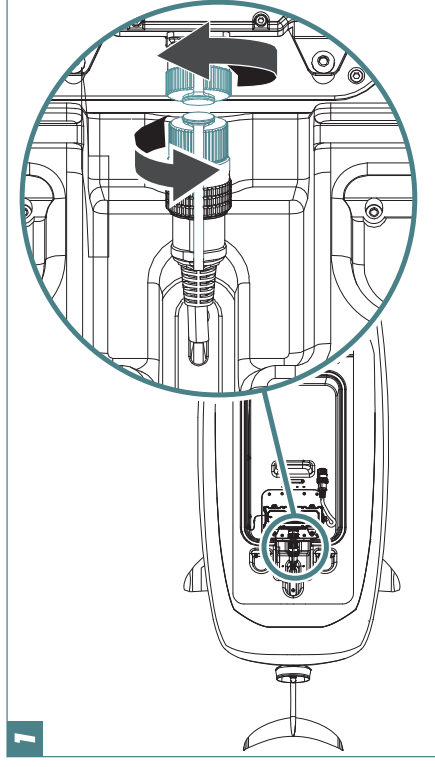
For more lift



For less lift

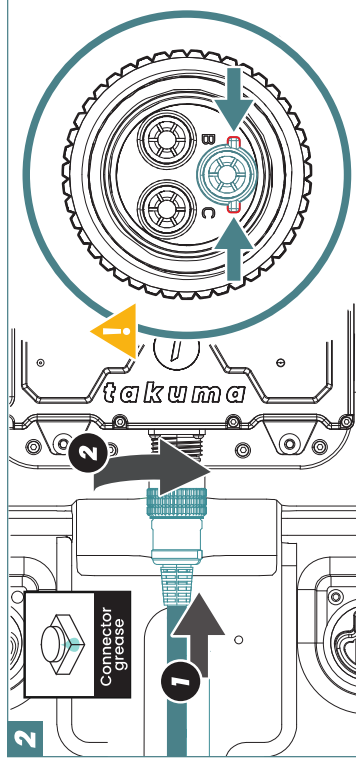


4.4 Propulsion to ESC connection



i

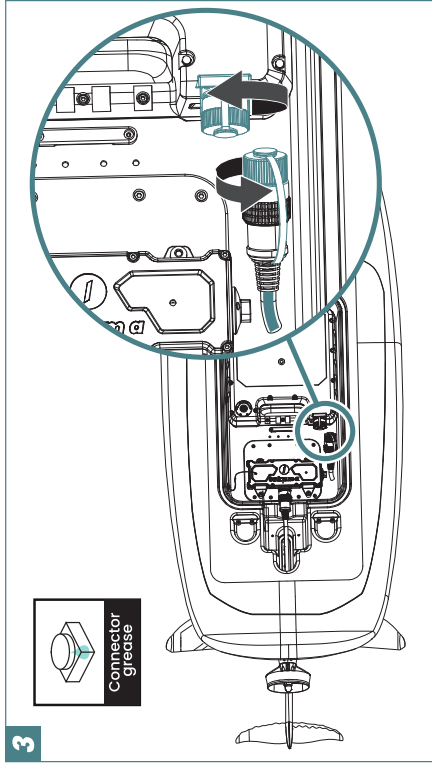
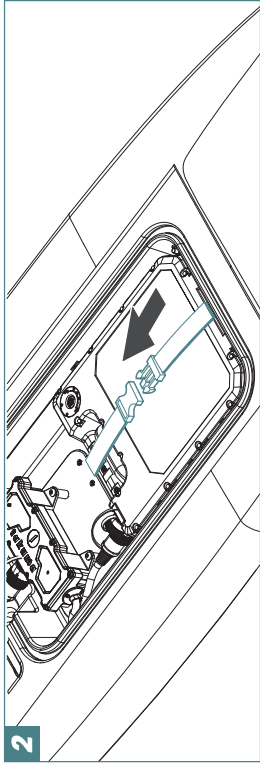
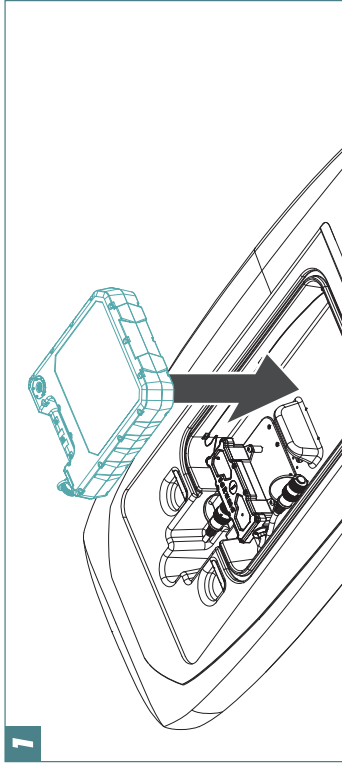
After removing the 2 caps:
Screw together the 2 M/F caps of the connectors.



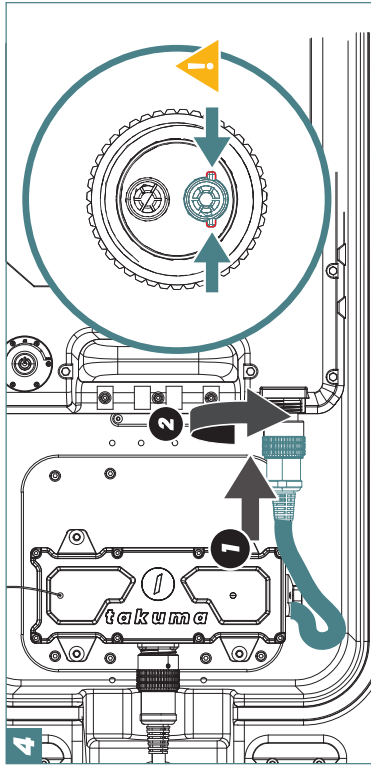
!

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

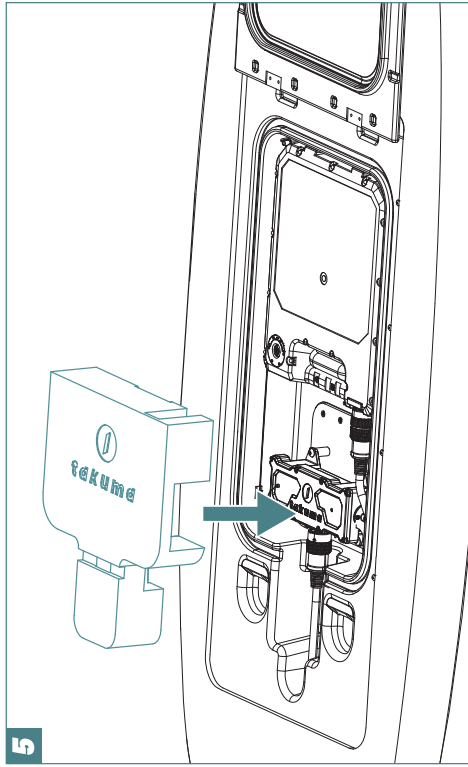
4.5 Battery Installation



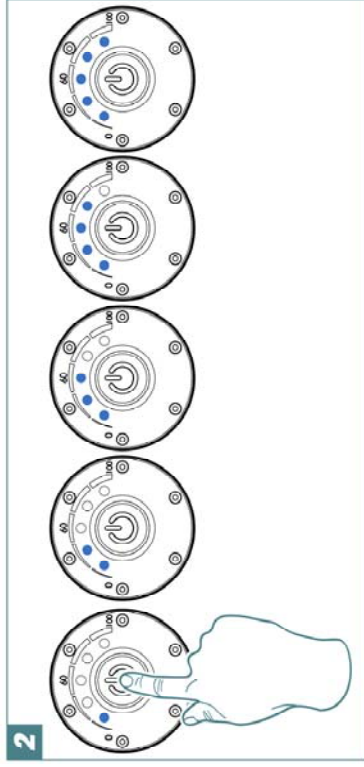
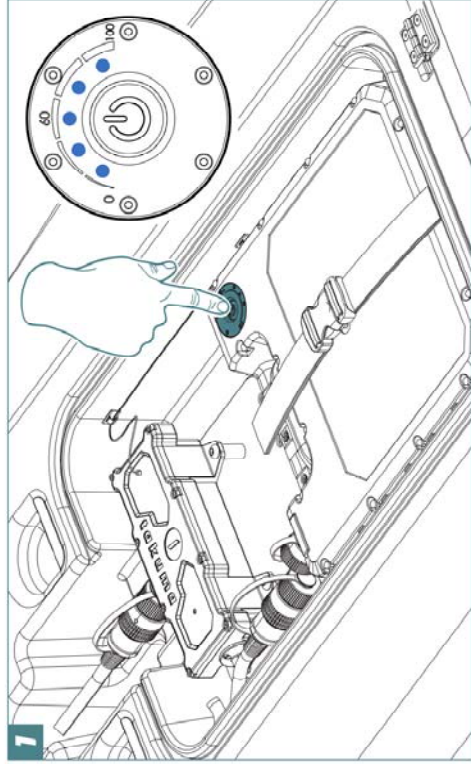
After removing the 2 caps:
Screw together the 2 M/F caps of the connectors.



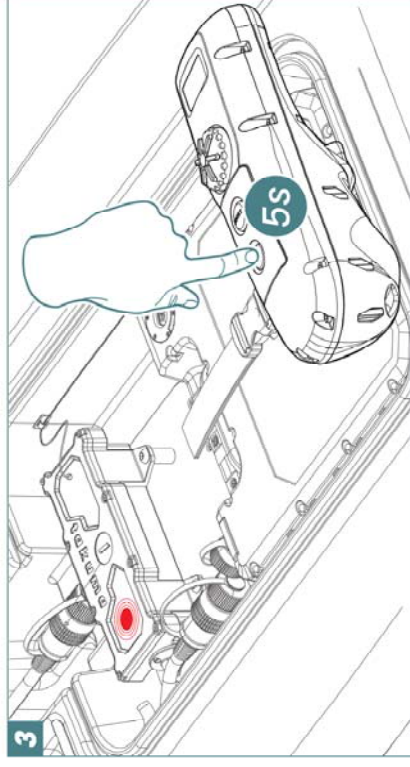
The pins will only connect if the notches are properly aligned. No great force is needed.



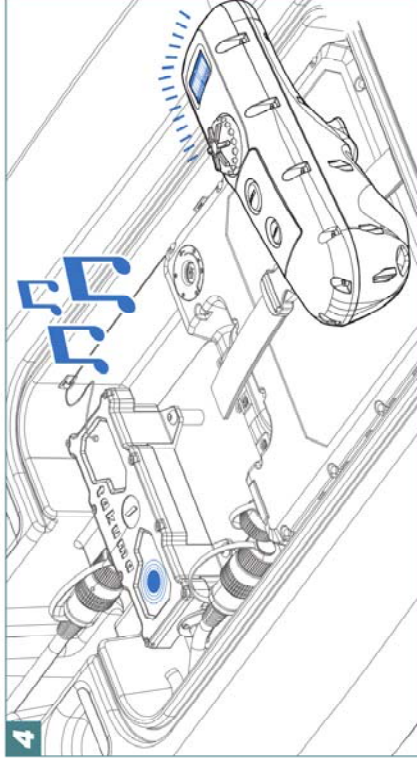
5.1 Activation and Pairing



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

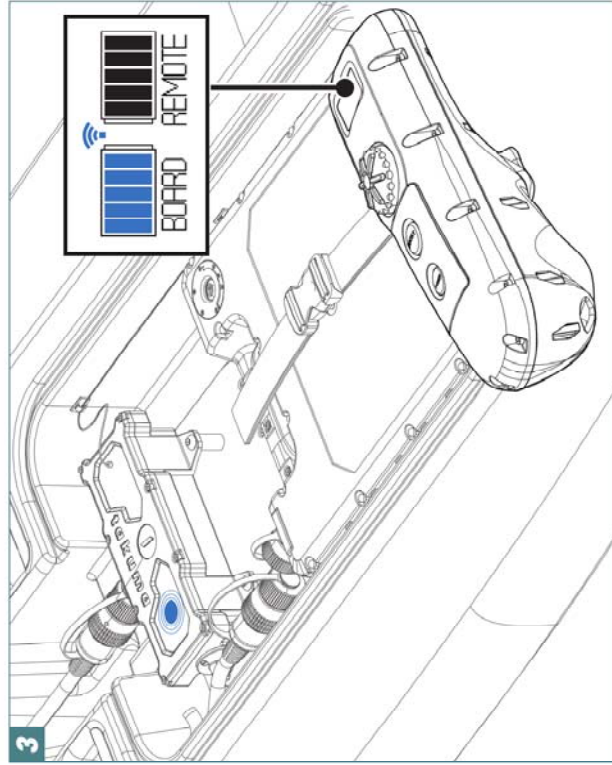
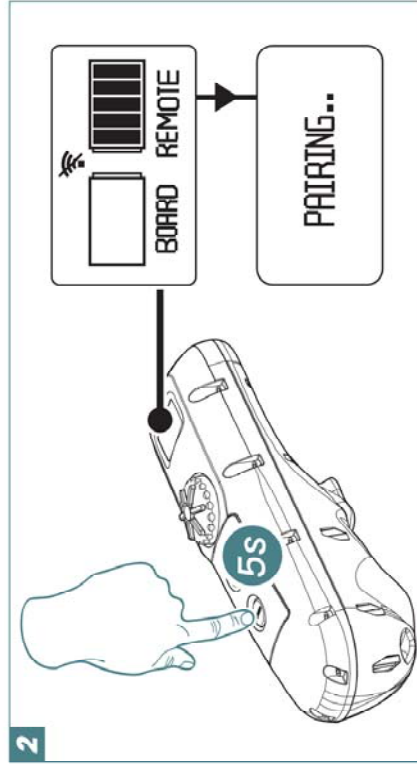
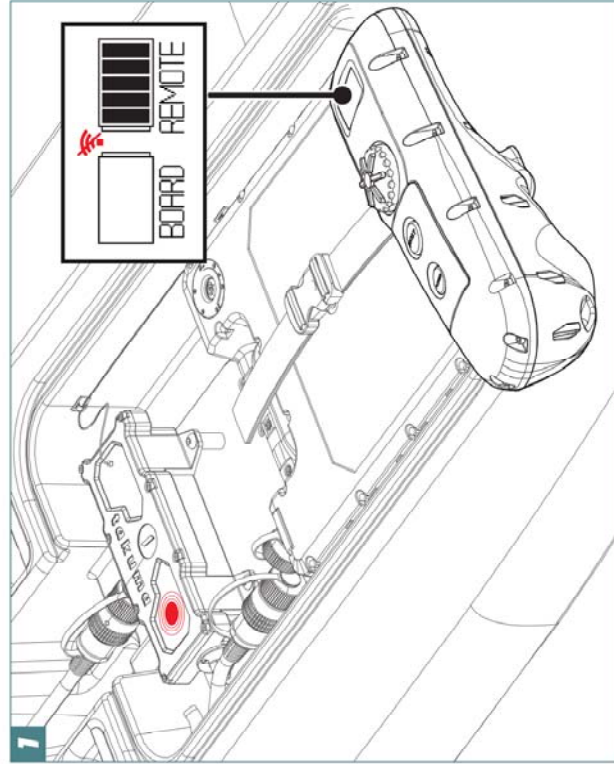


i Hold down on the power button even after the remote has turned on until it is paired.



5.2 Pairing Failure

If the ESC light remains red, this means that the remote control cannot connect to the board.
The barred wifi is shown in the middle of the screen.
Try to pair again, turn off the remote and battery and repeat the activation and pairing steps.



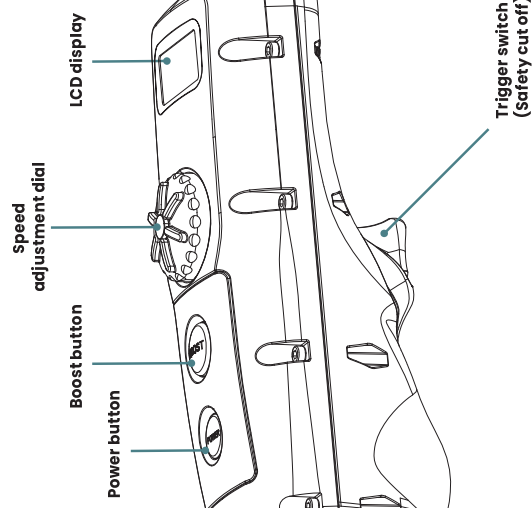
5.3 How to use remote



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.

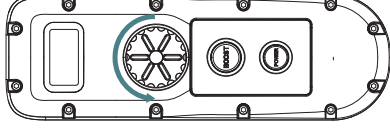
5.3.1 Remote control

1



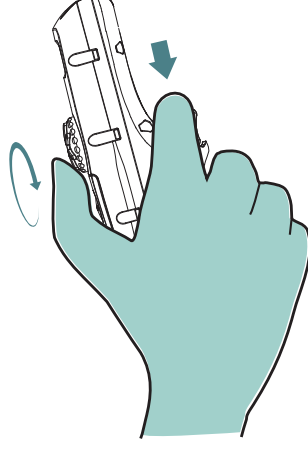
5.3.2 Trigger switch and speed adjustment dial

1



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

2



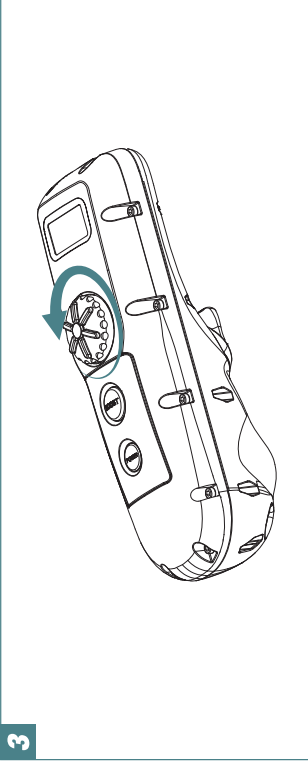
Press down on the trigger and turn speed adjustment dial to start the propulsion.

The trigger must be pressed continuously during the entire use.

Turn the speed adjustment dial to adjust speed.

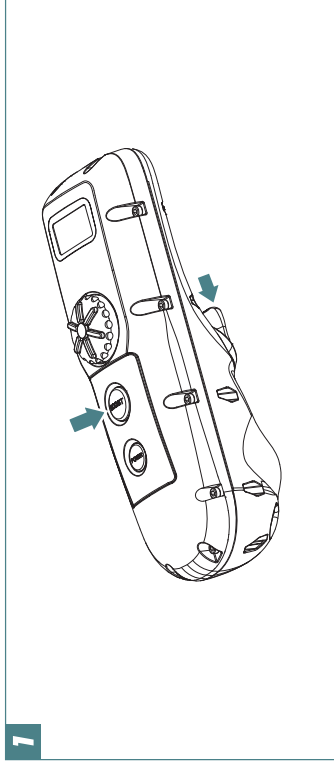
Once the trigger is released the propulsion stops.

5.4 Safety Cut Off



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.

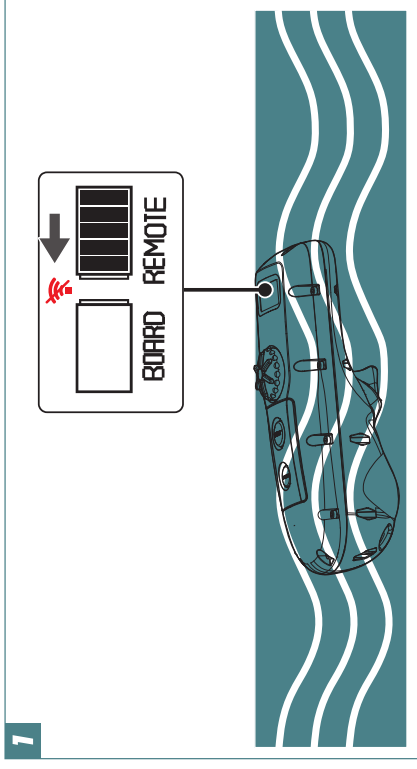
5.3.3 Boost mode



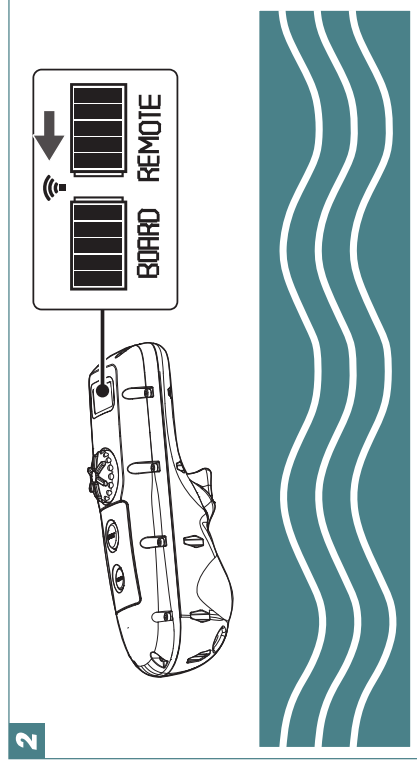
Pressing the boost button increases the speed by 20%.
Releasing the button will return you to the initial speed.



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.

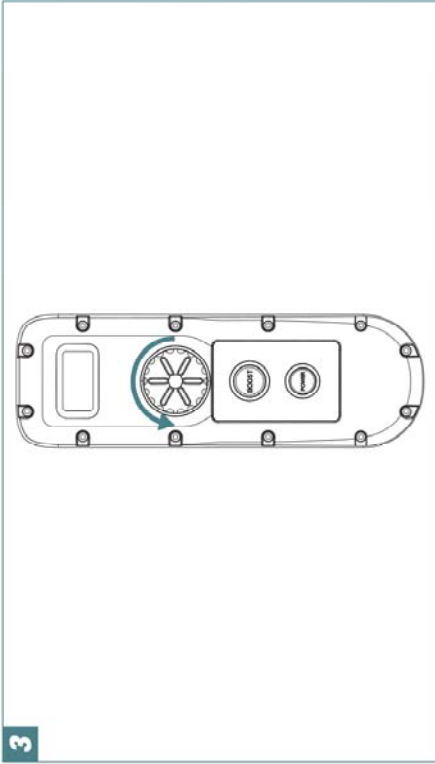
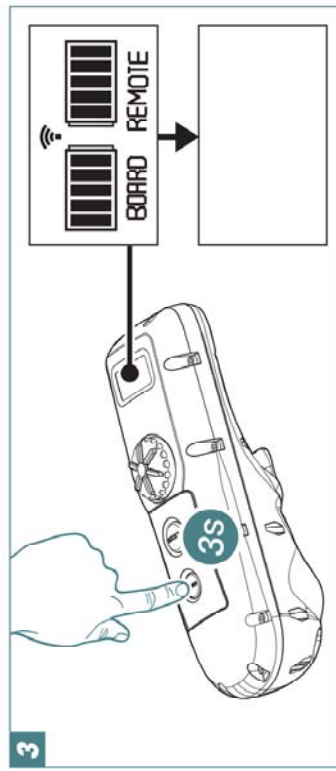
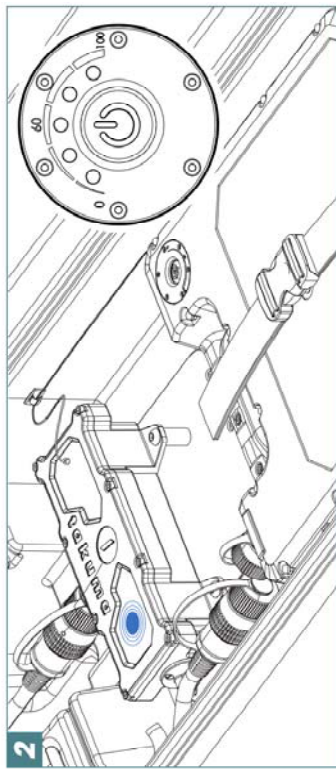
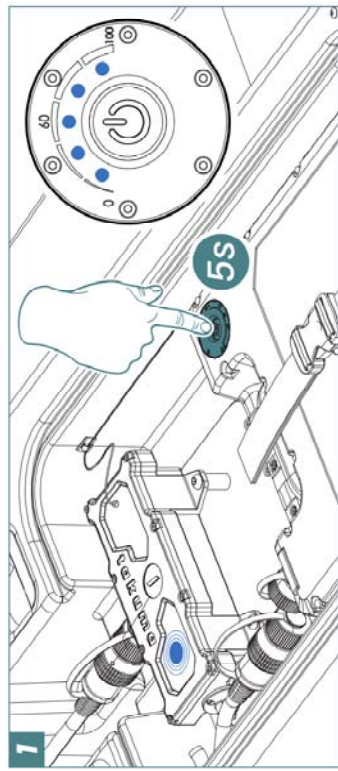


If the remote hits the water the connection and the motor will cut off.



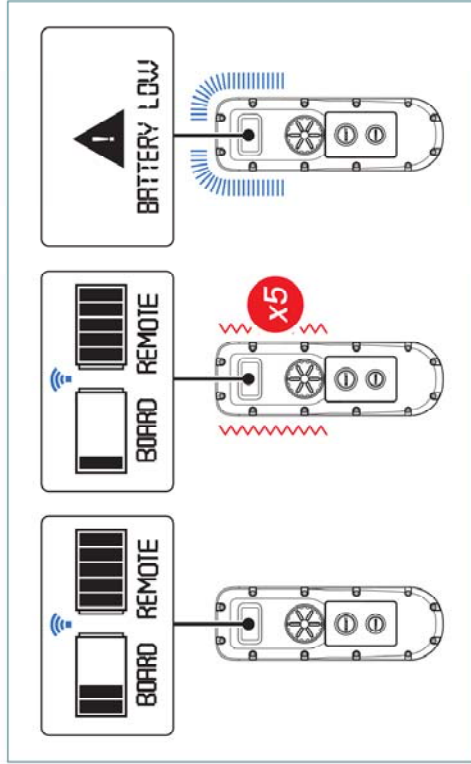
The signal automatically comes back on when the remote control is outside the water.

5.6 Power off



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

5.5 Low battery warning



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, battery and connector caps.

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 caps 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 every 3 months to 80% if storing for a long period of time.

Best temperature for battery storage is between 10-25°C.

7. WARRANTY

FCC Statement

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- 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

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.



Please refer to our website to review our warranty policy:

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



After-Sales Service:
customerservices@takuma.com

Please find our tutorial videos on our youtube channel:
<http://youtube.takuma.com>



Other languages:

*Español / Deutsche / Italiano / Português / Polskie / Română / Slovák /
Slovenščina / Български / čeština / Русский / Hrvatski / Lietuvių / Magyar /
Svenska / 中文 / 日本語*

