

LIFT eFOIL

Instruction Manual

2021 Instruction Manual







A NOTE FROM LIFT FOILS FOUNDER NICK LEASON

To those close to the foiling community, it may seem we've entered the mainstream, but I believe that the sport is just getting started. We're finally starting to see small groups of surfers adopt the foil for their small wave needs. In wind sports, wing foiling is officially taking over. Kitesurfers are making a complete move, and windsurfers who haven't contemplated rigging a sail in the last 20 years are now coming out of retirement to start winging on a foil board. In the world of electric, more and more eFoils are starting to pop up in the wild and as houseboat owners cruise around with multiple outdated jet skis on the aft deck, they ask themselves, "Why don't we have one of those?" The first person foiling was a kook, when it was two people they were weird, and now, with gangs of foilers at local breaks and WhatsApp groups excitedly messaging each other about one-foot surf, we have ourselves a movement. If you look closely at the strange trends, you can start to visualize the evolution of a new sport with multiple segments.

I see two advancement trends in foiling. The first is the early advocates, the ones who have been on the edge of the sport for years, who are going to achieve levels of mastery that are simply beyond what we can even comprehend today. I see it now with riders we work with at Lift. Some are only a few years into foiling, some are still in high school, but they're doing flips and tackling waves that seemed insurmountable to pioneers just a year ago. I firmly believe these riders are going to be flying out of barrels, riding huge waves at incredible speeds, and doing acrobatics similar to what we see in the world of snowboarding. Have a look at what people achieve behind a boat on an Air Chair and then combine that with fearless young surfers on large waves, light equipment, and foot straps. These young guns may even adopt an eFoil as the tool needed to get them launched into such surf...

The second is that we're going to see the infrastructure building quickly for further mainstream adoption, education, and enablement of new riders in all types of foiling. This is going to mean more brands jumping into the sport, more schools and lesson opportunities, and an increased desire from people of all skill levels to try foiling. The multiple branches

of foiling—surf, SUP, wake, kite, wingdings, eFoils—are what will create so much attention and what will offer an avenue for everyone. We've signed up hundreds of schools and rental areas to represent and showcase Lift eFoils in the last two years alone, and that speaks to the excitement that's going to continue across all areas of the sport.

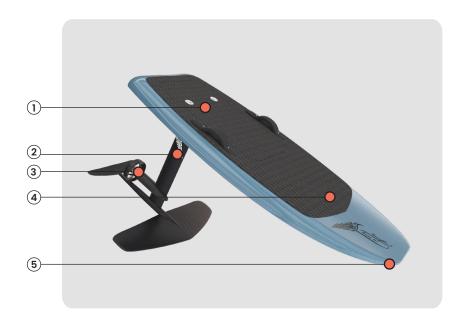
Foil designs and equipment will continue to evolve. Wing designs will start to be refined for more specific applications. Just as you have different surfboards for different kinds of surfing, the same is true of hydrofoil designs. I think the most exciting will be the adoption of smaller wings as foilers discover an incredible amount of speed and maneuverability in more powerful surf. Glider wings will allow for the endless riding of small waves and the ability to tap into open ocean swells and chop. It will no longer be people riding at specific breaks but instead riding their entire coastline...

Winging will allow for a new wave of excitement in the world of sailing as new people take an interest once again in the ancient art of riding the wind. What's most exciting is that "non-surfers" will learn to wing foil and surf open ocean swells in a matter of a few lessons—something that traditional surfers have never dreamed of. Skilled sailers will create rigid wings (true foils) that allow them to reach new speeds and a whole new category of racing. The world of electric foiling is endless and new crafts will appear that will excite just about everyone. The combination of tech and tradition will soon meld into new levels of the sport. Just wait and see what we have in store for you.

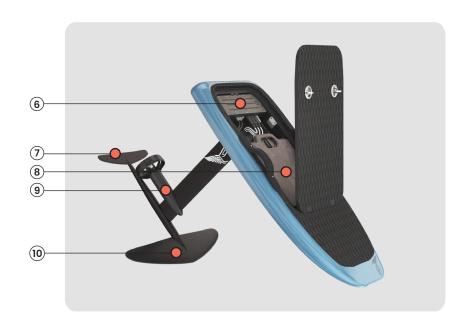
At the end of the day, it's no longer a question of whether or not foiling will become a mainstream sport; we're past that phase. It's a question of **how far we can take it.** I have so many ideas flowing that as soon as I finish one new design, I'm seeing three more in front of it. The potential is crazy, and as the community continues to expand, everyone will contribute more and more to the development of the sport. That's the most exciting part of it all: community, and finding new levels of stoke with your peers, and sharing new ideas that shape the next level of surfing for everyone.

Nick Leason, CEO and Founder of Lift Foils© Foiling Magazine, 2020

eFOIL OVERVIEW



- Hatch Compartment
- 2 Mast
- 3 Propeller
- 4 Board
- 5 Bluetooth Antenna



- 6 eBox
- 7 Tail Wing
- 8 Battery
- 9 Motor
- 10 Front Wing

SAFETY WARNINGS & DISCLAIMERS



USE OF THIS PRODUCT AND PARTICIPATION IN THE SPORT INVOLVES INHERENT RISKS OF INJURY OR DEATH. BY USING THE PRODUCT, THE USER ACKNOWLEDGES AND ACCEPTS THIS.

FULLY READ THIS MANUAL BEFORE USING THE PRODUCT.

The information contained in this User Manual represents the most up-to-date product data available at the time of printing. Lift Foils is committed to continuous product improvements and advancement of technology and the company reserves the right to change the product, components, specifications, or other aspects of the Lift board without advance notice.

The most current information can be found on the Lift Foils website **www.liftfoils.com**

WARRANTY

The Lift eFoil is subject to a two-year manufacturer's limited warranty. The earlier of one year or 300 battery cycles for the Product's battery. The manufacturer's limited warranty covers any defects in materials or workmanship under normal use during the warranty period*. For full details, please refer to the Lift Foils website **www.liftfoils.com**

GENERAL WARNINGS



RIDE SAFETY

TO REDUCE RISKS:

 Always inspect the product prior to use to ensure it is undamaged, that the battery hatch seals tightly, that the controller is in proper working order, and that the product is otherwise fit for use.

NEVER USE A DAMAGED PRODUCT.

- Do not allow others to operate the craft without making them fully aware of the proper procedures and risks of the craft.
- NOT FOR USE BY CHILDREN. This product is a powerful water device and should not be operated by anyone under the age of 16.

PROPULSION SYSTEM

CONTACT WITH THE PRODUCT'S SPINNING PROPELLER CAN CAUSE SERIOUS INJURY OR DEATH: • Keep your body, fingers, and toes away from the propeller • Never handle the propeller while the battery is connected to the system • Do not service your propeller in the water • Do not remove the propeller guard • Do not have controller turned on while board is out of the water

- ALWAYS KEEP THE REMOTE OFF WHEN BATTERY IS INSTALLED AND ACTIVE, UNTIL READY TO USE.
- CONTACT WITH THE PRODUCT'S SPINNING PROPELLER WILL CAUSE SERIOUS INJURY OR DEATH.
- KEEP BODY, FINGERS, AND TOES COMPLETELY AWAY FROM THE PROPELIER.
- NEVER HANDLE THE PROPELLER WHILE THE BATTERY IS CONNECTED TO THE LIFT EFOIL.

Disconnect the power source before servicing the propeller. Do not service the propeller in the water.

NEVER OPERATE TOWARD A PERSON IN THE WATER!

BATTERY



DO NOT ATTEMPT TO OPEN THE WATERPROOF HATCH COMPARTMENT WHILE IN THE WATER FOR ANY REASON.

- DO NOT disassemble or attempt to modify or service. No serviceable parts inside.
- ↑ DO NOT use for any purpose other than that intended.
- ↑ DO NOT mishandle, drop, or damage in any way.
- ♠ DO NOT puncture the battery.
- ⚠ DO NOT expose the battery to fire or elevated temperatures (>60 deg C).
- Inspect the battery before every use. If damaged, do not use. Exposure of a damaged pack to water could result in shock, fire, arc flash, serious injury, or death.
- ↑ Transport this unit in accordance with all applicable laws.
- DO NOT dispose of this unit. Recycling or disposal of lithium-ion batteries requires specialized facilities.
- ⚠ Only charge using the unit provided.
- ↑ DO NOT leave the battery unattended while charging.
- ⚠ DO NOT handle the battery and electronics with wet hands.
- DO NOT drop the battery. Do not use the product's battery if it is damaged. Damage to the battery may result in a fire.
- DO NOT connect the battery or any electronics while in the water. Assemble all items on the shore in a dry environment.

LIFT BATTERY SAFETY

Our advanced lithium-ion battery has been carefully designed, tried, and tested to resist water and adequate eFoil usage. In any case the battery seal is compromised, the battery might come into contact with water, which may result in internal damage, fire, or explosion. In case of damage please store your battery in a safe and non-flammable place and contact us right away.

WARNING SIGNS FOR A COMPROMISED PIECE

- Any visible signs that would indicate the battery's enclosure has been compromised?
- · Cracks, seam of the lid not closing down with the rest of the case
- The battery experienced significant drop or shock
- The battery becomes irregularly "hot" to the touch.
- The battery is at a significant level of charge (greater than 40% SOC) and suddenly cuts out during a ride Upon inspection, there are no LEDs on the battery and it is unresponsive.

SAFE BATTERY USAGE

- · Use the battery at your own risk.
- Do not open the Hatch Compartment under any circumstance when in the water or with wet hands. ALWAYS KEEP THE BATTERY DRY.
- Never use a damaged battery or a battery that has a compromised seal or that has experienced a significant drop or shock.
- Inspect the battery before each use.
- · Do not charge your battery unattended.

- In case of visible damage to the battery seal or water ingress into the battery, remove the battery to a large and open, non flammable area or completely submerge the battery in a tank of water and contact Lift immediately for assistance.
- DO NOT use the battery in temperatures lower than 0°C or higher than 40°C.
- DO NOT drop the battery or use a battery that has been involved in a crash.
- DO NOT place heavy objects on the battery or charger.
- DO NOT walk or stand on your battery.
- DO NOT use a battery different than the lithium-ion Lift Foils battery. If damage results from a non-Lift Foils battery, this will not be covered under the warranty.
- · DO NOT disassemble the battery.
- KEEP BATTERY AWAY from heat sources, microwaves, freezers, or pressurized containers.
- IN CASE OF FIRE, extinguish with cold water without additives or dry powder in large amounts.
- DO NOT dispose of batteries in regular trash containers. Follow local regulations for the disposal and recycling of batteries

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GETTING TO KNOW THE LIFT eFOIL

HOW THE LIFT eFOIL ARRIVES

The components for the Lift eFoil arrive in three separate boxes:



Propulsion Mast
Propulsion Case
Battery Charger
Charger AC cable
Hand Controller
Tool Kit
LIFT Sticker

IN THE TOOLKIT:



One Ounce Bottle of ReelX

Anti-corrosion oil to be used on your data connectors periodically. At least once a month, apply a drop to your data connector, 3 phase pins, and inside of the battery cam-lock. This will extend the

life of your electrical

contacts.



Spare Hatch Seal Tape

Change when your existing hatch seal shows signs of wear.



Hex Tool x2



5 x M8x16mm Screws

(one spare)one 5mm hex key



3 x M6x30mm Screws

(one spare)one 4mm hex key



3 x M6x22mm Screws

(for the tail wing)

COMPONENTS

1. BOARD

The board comes in four sizes:



2. HATCH COMPARTMENT

- eBox
- Battery
- Battery Lock
- Bluetooth Antenna
- Data Cables

♠ DO NOT open your hatch comparment over 90 degrees.



3. WINGS

The wing is critical for the stability of the foil. The wings maximize control and stability without unnecessary drag. The wing selection is based on the rider's weight, riding style, and conditions.



150 Surf V2

An excellent choice for sportier eFoil riding. The 150 has a perfect wingspan to match this year's board lineup. It offers excellent speed, carving, and efficiency.

A shop favorite!



200 Surf V2

For eFoiling, the 200 Surf V2 is what we call our "bread and butter." Foiling is not about going fast or slow. It's about the balance under your feet and the glide. This wing is the true magic carpet that does it all and feels amazing. Try a few different tail wings to mix it up a bit.



250 Surf V2

The big brother to the 200 Surf V2.

If you're a larger rider and need some extra float and stability, this is a great option.

For eFoiling, this wing can offer a lot more stability at lower riding. You can also pair it with a shorter board to gain maneuverability at lower riding speeds.

4. TAIL WINGS



48 Surf V2

Our largest and most stable wing. Pairs well with the 200 surf and larger wings.



5000-watt brushless direct drive motor



38 Surf V2

Our most versatile wing to do it all. Pairs well with the 150 surf and larger wings.



6. 28-INCH & 32-INCH CARBON-FIBER STRUT

- 3 phase connectors
- Blue water cooling tube



7. ELECTRICAL BOX

- Power ON & OFF button
- · Blue water tubes (input and output)
- · Phase connector ports
- Pairing/firmware relay switch



8. BATTERY:

- · Main power connector port
- Data connector port
- LED indicators

BLINKING GREEN when inactive (Indicates state of charge, no lights = <10%). SOLID GREEN when charging (Indicates state of charge while charging). BLUE when running systems check and connected to the drive train.





Battery Cell Form Factor Battery Pack Configuration Nominal Battery Voltage Battery Voltage Range Energy Capacity (Nameplate) 2.1 kWh Ingress Rating

Battery Pack Weight 13.8 kg (30.3 lbs) IP67

Pack-level Safety Integrated Contactor Pack Level Fuse Integrated BMS

Individual Cell Module-level Features FusibleLinks Cell Group Temp. Sensing

Operating Temperature Range 0 to 45°C* Charging Temperature Range 10 to 45°C Storage Temperature Range - 40 to 55°C

Cell Balancing

18650 Cylindrical

14S-14P

35-58V

50V

• Data Cables: The data cables sends sensitive communication from the battery to the electrical box and can be damaged by corrosion if not properly maintained. These are easily intercharngeable. Use your provided ReelX oil to prevent corrosion.



9. HAND CONTROLLER

• REPLACEABLE BATTERIES
The hand controller comes with
two replaceable AA batteries that
will last for about 50 hours + of
ride time. Use a 2mm hex key to
remove the remote's end cap



POWER BUTTON

The power button is above the screen. Click to turn the controller **ON** and **OFF**.



HOME SCREEN



GOVERNOR "SET" BUTTON

Under the screen



CHARGING THE BATTERY

1. Identify the main power connector port on the battery



2. Identify the data connector port and remove cap



3. Always lay the battery flat and handle it with care. Arrange the battery and the charger to face each other (male & female) to allow for an easier connection.



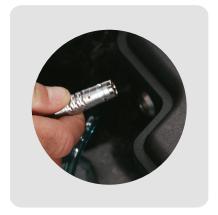
4. Apply forward pressure into the battery and rotate the "cam" lock clockwise.

CAUTION: Be careful not to force the connection, which can damage the power connector panel of the battery.



5. Plug the data connector into the data port by matching the red dots on both connectors and make sure to feel the connector "click" into place.

CAUTION: Be very careful with the 8 data pins of the data connector and ensure that they remain free of damage and corrosion. Take care of your data connectors as necessary to maintain a clean connector. Rinse with fresh water and apply Reel X.



6. Plug the battery charger into a wall outlet AFTER both the main power connector and data connector have been connected.

NOTE: This is a high-energy charger and should not share a power receptacle with other appliances. Make sure that the power source for charging can handle up to 1200 watts.



7. The battery and charger will make an audible clicking noise when the connection has been made.



8. The lightning bolt icon on the charger indicates that charging has started.



The green LED lights on the battery will indicate the charging progress.

- Charging is recommended in a cool and dry environment.
- Do not cover up the charger while in use. The aluminum heat sinks are designed to allow airflow and cooling of the charger.



- The charger fan will come on automatically if and when necessary. It's OK if the fan does not turn on while charging.
- The battery is fully charged when the lightning bolt icon turns off and lights are flashing green. Charging should take up to 2 hours.

NOTE: It is not necessary to fully discharge the battery before putting it to charge.

DISCONNECTING THE BATTERY

Once the battery is fully charged:

- Disconnect charger from wall outlet.
- Disconnect the data plug from the battery.
- Disconnect the power connector "cam lock" from the battery.

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ASSEMBLY

While the battery is charging, find a clean environment to assemble the rest of the eFoil.

1. Installing the mast

Locate the mast and the board

The top of the mast has a rubber seal on the surface with three phase connectors and one blue water tube with connector.



2. Locate the four threaded inserts on the bottom of the board. This is where the mast will connect.

Steady the mast and feed the cables through the port at the bottom of the board.

PRO TIP: Arrange the cables so there is a nice smooth curve, guiding the tips of the cables toward the front of the board.



3. Use both hands to secure the mast and press down firmly as the rubber seal seats into position.

While holding the mast in place with one hand, find the M8 screws and start threading them in by hand.

Make sure all four M8 screws are threaded by hand before tightening with the 5mm hex key. Continue to hold the mast in place and tighten the bolts with the 5mm hex key.

Tighten the M8 bolts firmly and cycle through each one at least twice to ensure a secure connection and seal. Be sure that all edges of the mast base are seated firmly against the bottom of the board.

INSTALLING THE WING

Remove the wing from the wing bag.

- Install the wing on the mast using the M6 screws.
- Put the wing cover back on for protection.
- Once the mast and the wing are securely installed, flip the board over and open the hatch.



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CONNECTING THE ELECTRONICS

1. Open the Hatch Comparment by identifying the latches pressing down on the top of the hatch, lift the latches and rotate to open.

Make sure not to overextend the hatch compartment when opening.



2. Connect the three phase connectors to the eBox and both ends of the water cooling tube.

NOTE: There is a distinct feeling and sound when the blue water cables connect. This is critical to keep the electrical box running cool. Water will not flow if the connectors are not properly mated.

Insert the phase connectors by matching the colors and pressing firmly.

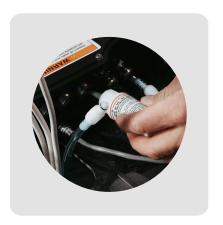


3. Apply a drop of ReelX to the phase connector electrical contacts and data plug.

The connection points are double-sealed for water protection, so there might be slight resistance which guarantees a waterproof seal. Ensure that the orange o-ring is fully inserted.

CAUTION: If the phase connectors are not fully seated into the ESC Box and water enters the hatch compartment, it may result in an electrical shock.

NOTE: Plug red, green, and yellow connectors into the corresponding connection points. If a cable is put in the wrong port, the prop will spin in reverse but will not damage the motor.



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GETTING READY TO RIDE __

INSTALLING THE BATTERY

 Open the battery hatch in a clean area free from water or sand and place the fully charged battery inside with the stickers facing up.



- Secure the battery using the battery lock cam.
- Make sure the electrical box is turned off by viewing the POWER BUTTON button on the left-hand side of the eBox. The POWER BUTTON will be a solid blue ring when ON and colorless when OFF.



2. Connect the power connector with the battery by sliding the cam lock slip over the pin; apply forward pressure and twist the cam-lock connector 90 degrees to engage.

CAUTION: Remember, do not force the cam-lock onto the battery connector panel because this damage the battery connector panel.

NOTE: Apply a drop of ReelX to the contacts inside the power connector and data cable once a month. Check your data cable's plug and battery receptacle for signs of corrosion. Clean it with an electrical contact cleaner spray if needed and once dry, apply a drop of Reel X.



3. Remove the protective cover from the data port on the battery and carefully plug in the data cable. Make sure to feel and hear the data connector "click" into place. The data connector is keyed, so it only will connect with the red dots are lined up.



CAUTION: This data cable uses sensitive electrical contacts to relay critical information to the electronics box. It is important to keep this connector and its eight pins clean and free of debris and saltwater.

TAKE CARE OF THE DATA CONNECTOR!

BOOTING UP THE SYSTEM

- 1. Press the power button one time to boot up the system. The power button on the electrical box will flash blue as it goes through its system check. It will turn solid blue when the startup is complete. The battery light bar will also show four blue LEDs indicating that the connection to the system is successful.
- There will be an audible "click" inside the battery as the battery turns on. This is the internal battery contact closing the circuit and applying voltage to the system.



• After a few seconds, there will be a chime from the motor confirming the startup sequence of the motor.

NOTE: The startup procedure can take up to 10 seconds for a comprehensive system check.

Lights on the battery will turn from green to blue as it enters "startup" mode.

NOTE: It is important to become familiar with this startup sequence as it is how you'll know the Lift eFoil is ready to ride.

3. Power on the hand controller by pressing the power button above the screen. The Lift logo will appear, followed by a battery icon, which will appear on the hand controller's screen. This confirms that the hand controller and board are properly paired.

NOTE: If the hand controller screen indicates "no signal," the board and hand controller are disconnected. Please review the PAIRING THE CONTROLLER section on p. 36.



4. Once pairing has been confirmed, make sure the propeller is free and clear, and give the controller a small amount of throttle to spin the propeller.

NOTE: The propeller should be rotating counter clockwise when facing the front of the board. If it is not, check the phase connector plugs to make sure the colors match.

5. Once the propeller is confirmed to be spinning counter-clockwise, press the power button on the hand controller to turn it off.

CAUTION: DO NOT transport the board with the hand controller turned on. Always turn off the hand controller in any instance when you're NOT riding the eFoil.

CAUTION: DO NOT run the motor out of the water except for a brief check to ensure it is working correctly.

- **6.** Finally, inspect the board compartment seals to ensure that it is free from damage and debris. Carefully close the lid and fasten the latches.
- 7. Ensure the board compartment is sealed. You should not experience large quantities of water in the hatch compartment after a ride.

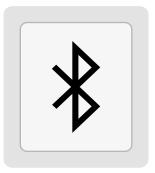
PAIRING THE CONTROLLER

PAIRING HAND CONTROLLER VIA BLUETOOTH

If the screen on the hand controller is indicating "no signal," the hand controller is not paired with the board or the board is turned off.

To pair the hand controller:

- 1. Confirm the eBox is turned on.
- 2. Turn off the hand controller.
- **3.** Press and hold the (-),(+) buttons, and then press the power button.
- **4.** The hand controller screen will show a Bluetooth logo, indicating that it is in pairing mode. If this screen does not appear, turn off the hand controller and repeat the above process to enter pairing mode.



5. After the controller is in pairing mode, press and hold the black relay button on the electrical box (located near the blue water tubing) for up to 5 seconds. The blue startup button will flash and the hand controller will display check mark.



CONTROLLER HOME SCREEN

 The hand controller's home screen displays the battery level of the main battery inside the board, indicating how much ride is remaining.

CAUTION: The Lift eFoil will automatically reduce power and enter into a "limp mode" when there is only 10% battery left. This indicates you need to return to shore and recharge the battery.



Be aware of the screen for low battery and other warnings or your hand controller will alert you if it is low on battery or if your electronic components are getting irregularly hot.

GOVERNOR MODE

- Governor mode limits the maximum throttle output, which allows riding at reduced speeds.
- Press the (+) or (-) button to increase or decrease your power level from 15 total settings.
- To set your power level, make sure the hand controller is powered on and then press the "set" button just below the screen. Press "set" again to lock in the governor setting. Your power level will be displayed on this screen.

SERIAL NUMBERS

- The HIN number of the Lift eFoil is located on the starboard side of the board near the tail. Please verify that your documents match the board's HIN number.
- The serial number of the eBox is located under the white phase connectors.
- The battery serial number is located near the battery handle.
- A white manilla envelope containing all of the paperwork to register your board is included with your eFoil.

Disclaimer: As your Lift eFoil is a powered VESELL, we recommend all boards to be registered properly according to your local rules and regulations.

RIDING THE eFOIL _

PLEASE WATCH OUR INSTRUCTIONAL VIDEOS TO LEARN HOW TO RIDE.
FIND OUR INSTRUCTIONAL VIDEOS ON OUR YOUTUBE CHANNEL AT:
https://www.youtube.com/liftfoils

REMEMBER: ALWAYS RIDE SAFELY AND RESPECTFULLY.

Inspect the areas where you will ride. Bear in mind that you will need a minimum of 4 feet of water depth. Watch for submerged obstacles such as rocks hitting submerged objects can cause injury to riders at any speed. Always make sure the hand controller is off when carrying the Lift eFoil. Make sure to establish a comfortable method for carrying the eFoil or get help from a friend. Get accustomed to the trigger and the power settings.

WARNING: Do not squeeze the trigger fully or quickly.

Beginners should use the governor feature in the hand controller.

Select governor setting one and start learning the basics and getting comfortable handling the eFoil.

LEARNING PROGRESSION

- Make sure to use protective equipment such as helmet and life jacket.
- Begin with one hand holding the controller and the other hand holding the board's nose. Remember, keep the nose out of the water, begin applying the throttle by pressing the trigger, and lean forward.
- Start in the prone position on the board (on your belly), make some turns, and get used to the throttle actuation.

WARNING! Don't put your feet inside the prop. Always keep all body parts clear from the propeller.

NOTE: At a higher speed—around 10 miles per hour—the board becomes more stable.

• Once you're comfortable in the prone position, transition to the

kneeling position. Keep a consistent throttle and make a few turns and get comfortable.

- Maintain consistent throttle and slowly transition from kneeling to standing.
- Adopt a wide stance square with the front of the board for additional stability. It's critical to shift your weight forward as the board accelerates. This is true for any riding position—prone, kneeling, or standing.
- Do not rush eFoiling—this process takes practice and it is important to stay safe.
- While the throttle controls speed, weight distribution controls the elevation of the eFoil.
- Practice doing "touch and go's" by easing onto the eFoil and shifting weight back while at sufficient speed, then slightly letting off the throttle while shifting weight forward to bring the board back down to the surface of the water.
- Never venture out past what you are not able to swim. Ride with a partner for added safety.
- Bailing is a critical part of learning to foil. There's a big difference between purposefully bailing out (which puts distance between the rider and the eFoil) and uncontrollably falling, which can lead to injury.
- When losing control of the board, use the last bit of balance to bail out and create distance between yourself and the board.

WARNING: Always bail to the sides or back of the Lift eFoil, NEVER toward the front.

- Always turn off the hand controller while swimming back to the board to avoid pressing the trigger. Once safely back on the board, turn the hand controller back on.
- Always keep all body parts clear from the propeller.
 If you're a first-time eFoiler make sure to book a demo session at any of our 300 affiliates worldwide.
 Find our locations on www.liftfoils.com
- Do not open the hatch compartment when in the water.

THIS PRACTICE TAKES TIME TO MASTER, SO SLOW DOWN, LEARN, HAVE FUN, AND MAKE SURE TO WEAR PROPER SAFETY GEAR SUCH AS GLOVES, HELMET, BOOTIES, COAST GUARD APPROVED VESTS, AND/OR A WHISTLE.

POST RIDE

POWERING DOWN

- **1.** As soon as the ride is over, turn off the hand controller by pressing the top power button.
- **2.** Once the Lift eFoil is completely out of the water and on land, open the hatch and simply push the power button to shut the eFoil off. The power button will go from blue to flashing blue to off.

NOTE: Remember: all of these components are completely waterproof and it's normal for some water to get into the hatch when opening—but it should only be less than a cup.

- **3.** Disconnect the data cable from the battery by pulling back on the metal housing.
- **4.** Disconnect the main power connector from the battery by twisting the "cam" lock counter-clockwise and releasing the connection.
- 5. Twist the cam holding the battery in place and remove the battery.

MAINTENANCE

- Make sure to rinse the outside of the eFoil, especially the motor, with fresh water after each use.
- Flush out the water cooling line by pressing a hose against the inlet located at the propulsion's hose cone.
- If you see salt water, sand, or debris inside the compartment, it's a good idea to rinse it out with fresh water, drain it, and dry it out with a towel.

• If the connectors encounter salt water or debris, clean them out with fresh water and allow them to properly dry.

NOTE: If riding in salt water, rinse the data connector directly with fresh water.

• Once a month, use the provided ReelX oil to coat the electrical contacts at least once a month and more with frequent use.

NOTE: This will also prevent corrosion.

NOTICE: This oil can be used on the rubber seals to provide lubrication for a smooth connection. It also works well on any metallic surfaces, such as the compression latches and hinges.

- Be sure the inside of the compartment is completely free of moisture before closing the hatch and storing your eFoil.
- When storing your eFoil, make sure to use the provided bags and cases and don't store them in direct sunlight. UV and excessive heat exposure can cause permanent damage.
- Don't leave the hand controller in direct sunlight for an extended amount of time.

THESE STEPS PREVENT DAMAGING CORROSION AND KEEP THE LIFT IN OPTIMAL CONDITION.

The electrical contacts are critical in the eFoil. Scratches, salt water, corrosion, and any other damage to the electrical contacts and connectors can cause rapid degradation and will lead to system failure. The electrical contacts and connectors are of the highest quality but need to be maintained to stay that way. Take care of the electrical connectors.

Being diligent about inspecting your data connectors, regular cleaning and use of ReelX will greatly extend the life and durability of your data connectors!

DOWNLOAD THE LIFT QUICKSTART APP _

The **Lift Quickstart App** is available to download in the Apple App Store & Android Google Play Store.

To ensure the best performance and that your board and hand controller are up to date with the latest software, download the **Lift Quickstart App.**





CONNECT & UPDATE YOUR PRODUCTS

- To connect your board and/or hand controller, simply open the App and navigate to the "My Products" section. There you will find a step by step guide on how to pair the app with your device.
- Once connected, your device may instruct you to update. If so, there is a newer software version available and we recommend you perform the update.

SUBMIT SERVICE TICKETS

- If you are experiencing any issues with your product, follow prompts to submit a service ticket to our customer support team. You can contact us at help@liftfoils.com
- By providing the necessary information, it will ensure our team can provide quick and detailed responses to address your specific issue. Watch How-To & Tutorial Videos
- Our latest tutorials and how-to videos are updated regularly.







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TROUBLESHOOTING

What happens if something goes wrong?

- Check the manual, how-to videos, and pro-tip section.
- Make sure the eFoil is running the latest firmware.
- Send an email to
 Help@liftfoils.com and schedule an appointment.
- Use our Lift eFoil app to send a service ticket.

Hand controller disconnects while in the water

 Establish a good connection by making sure that the hand controller and the nose of the board aren't submerged underwater.

Excess water inside the battery compartment

- Inspect the gasket seal to determine if there's anywhere allowing water to flow in.
- Tighten your latches as shown on our Youtube video "Maintenance Video: Hatch Compartment" (minute 2:12).

Propeller spinning in reverse

• Check the phase connectors and confirm that the colors match: red to red, yellow to yellow, and green to green.

The battery charger isn't connecting (no lighting bolt)

 Make sure to plug in the main power connector first, then the data cable, and then plug the charger into the wall.
 Ensure that all connections are properly mated.

The battery is flashing a green light

- A blinking green light indicates that the battery is inactive and shows how much charge is available.
- If it is not blinking it means it has less than 10% charge and charging is recommended.

Battery charge during storage

- We recommend storing the battery with a minimum 30% charge for anything over 4 weeks.
- It is not recommended to store the battery for long in a very low state of charge.

The controller isn't connecting to the board

- If the screen on the hand controller is indicating "no signal," the hand controller isn't paired with the board or the board is turned off. Ensure that the board is on and pair the hand controller to the board by following these steps:
- 1. Confirm the eBox is turned on.
- 2. Turn off the hand controller.
- **3.** Press and hold the (-),(+) buttons, and then press the power button.
- **4.** The hand controller screen will show a Bluetooth logo, indicating that it is in pairing mode. If this screen does not appear, turn off the hand controller and repeat the above process to enter pairing mode.

The board turns off while riding

 Return to shore ASAP, open compartment, and confirm that the data connector is clean and free of debris and/or corrosion.
 Check that all connectors are properly mated.

Dropped the battery

• 1 DO NOT USE THE BATTERY AND CONTACT LIFT.

Damage to Electrical contacts or cables

• 1 DO NOT USE THE BOARD AND CONTACT LIFT.

NOTES

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