



ELITE HAND CONTROLLER | USER GUIDE



THANKS FOR RIDING WITH LIFT

As a family-founded business, we personally design, engineer and test the products we build. Our tireless pursuit of the ultimate ride is at the core of everything we craft to ensure you have the best foiling experience possible.

From first-time riders to proven professionals, our mission is to share the feeling of flying over water with adventurers around the globe and continue shaping the evolution of surfing.

Nick Leason

Founder and CEO



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WHAT'S INCLUDED



NOTE: The Elite Hand Controller is only compatible with the LIFT4 eFoil and future Lift eFoil generations. If riders have a previous generation eFoil, it is only compatible with the Lift Classic Hand Controller.

BUTTON DEFINITIONS





POWERING UP

Press the Power button to turn on the hand controller. The Lift logo will appear during power up.

The hand controller will turn off after three minutes of inactivity.

You can perform a forced restart by pressing and holding the Power button for five seconds.



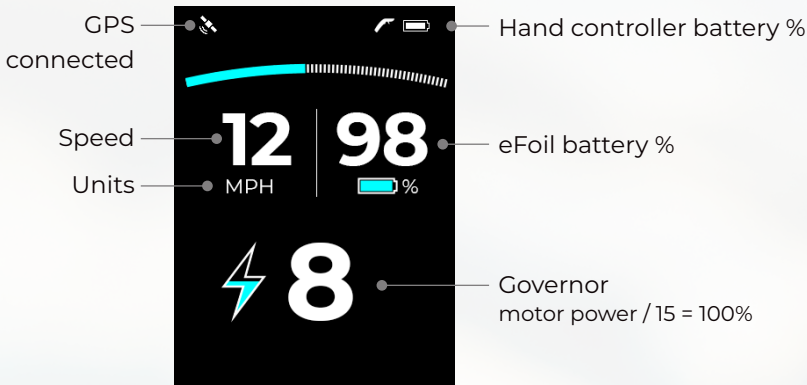
HOME SCREENS

Press Select to toggle between the Home Screens.

Press ▲ or ▼ while displaying Home Screen 1 to change the power level.

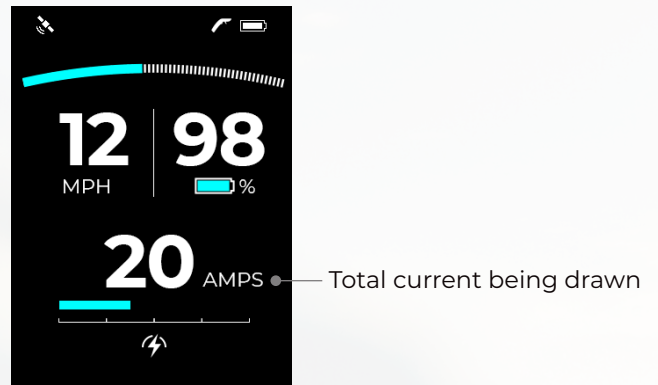
While on Home Screens 2 and 3, pressing ▲ or ▼ will change the power level and return to Home Screen 1.

HOME SCREEN 1

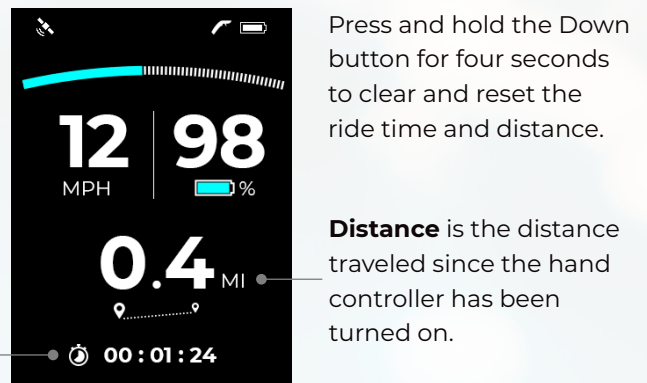


NOTE: On initial connection, speed and distance functionality may take up to 20 minutes to function as the GPS signal is acquired. Once GPS signal is acquired, the GPS icon will appear.

HOME SCREEN 2



HOME SCREEN 3



Ride Time is the total time the trigger has been pressed since the hand controller has been turned on.



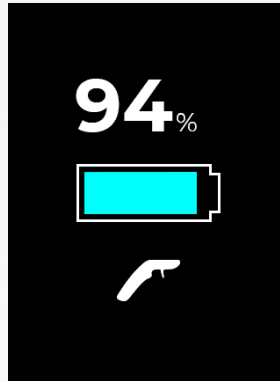
AUXILIARY SCREENS

While in any Home Screen, press and hold Select for one second to display the Auxiliary Screens.
To return to a Home Screen, repeat the same process by pressing and holding Select for one second.

AUXILIARY SCREEN 1

Hand Controller Battery Charge

This screen displays the hand controller's remaining battery life.



AUXILIARY SCREEN 2

eFoil Component Temperatures

This screen displays the temperatures of several eFoil components.

The temperatures will be blank if the hand controller is not connected to a board.



eFoil battery

Electrical contacts of the three phase connectors which connect the eBox to the battery.

eBox

AUXILIARY SCREEN 3

Hand Controller Board Signal Strength

This screen displays the hand controller's signal strength.

The lower the number, the better the signal strength.



Transmitting Value

The signal strength from the hand controller to the eBox.

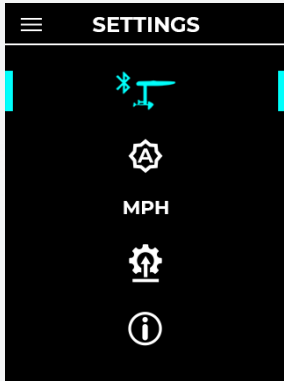
Receiving Value

The signal strength from the eBox to the hand controller.

Please contact Lift Technical Support if you have questions specific to signal strength.

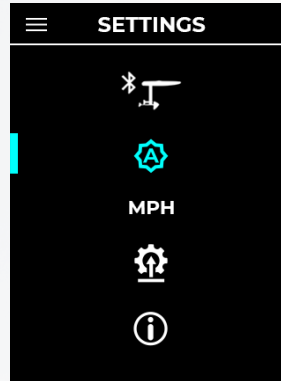


SETTINGS MENU



Board Pairing

This allows you to manually begin the pairing process.



Screen Brightness

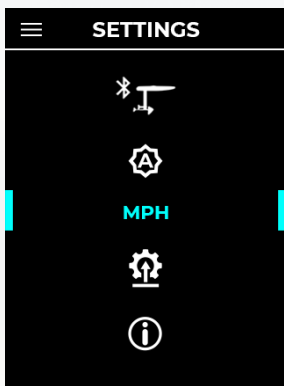
This enables you to change the brightness of the LCD backlight.

Options:

- ▶ AUTO
- ▶ LOW
- ▶ MED
- ▶ HIGH

The AUTO setting uses an ambient light sensor to adjust automatically.

The LOW setting uses the least battery power.

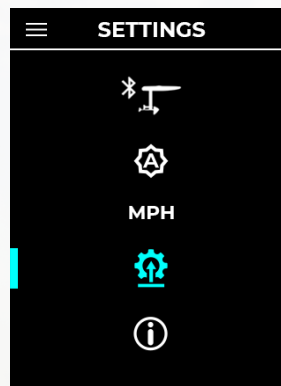


Change Units

You can move between metric and imperial units of measurement.

- ▶ miles, mph, degrees Fahrenheit
- ▶ km, km/h, degrees Celsius

Imperial units are the default setting.



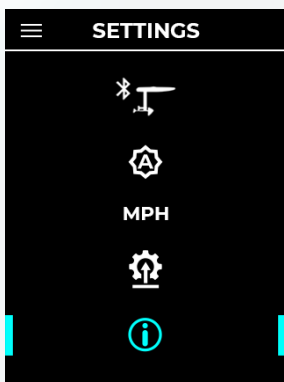
Smartphone Pairing for Updates

This allows you to connect to the Lift app on iOS or Android.

You must connect the hand controller to the Lift app to update the hand controller firmware. Follow the instructions in the Lift app to connect the hand controller to the app.



Do not power down the hand controller while the propeller icon is spinning, or the update may fail.



Info/About

This screen displays the hand controller firmware version and the board firmware version (if paired).

You can also perform a factory reset in this menu. See FACTORY RESET section on Page 12.



PAIRING THE HAND CONTROLLER TO THE LIFT eFOIL BOARD

There are 3 ways to pair the hand controller to the Lift eFoil:

1 AUTO-PAIR PROCESS

After powering up the hand controller, it will attempt to automatically pair with the eFoil.

1. Ensure the hand controller and eFoil are both turned off.
2. Turn on the eBox by pressing the Power button.
3. Place the eBox into pairing mode by pressing and holding the Relay button for three seconds.
4. Power on the hand controller. It will start up and then initiate the auto-pairing process as indicated by the Attempting to Pair screen.
5. Finally, the Paired with Board screen will appear, indicating the hand controller is connected to the eFoil board.

The auto-pair process will only occur during the first use or after a factory reset.

2 PAIR THROUGH THE SETTINGS MENU

To connect the hand controller to another board, go to the Settings menu and access the Board Pairing screen.

3 PAIR WITH THE SELECT AND POWER BUTTONS

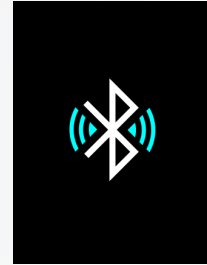
Hold the Select and Power buttons. You must continue to hold the buttons all the way through the Lift initialization screen.

The hand controller will attempt to pair to an eFoil board for approximately 45 seconds. If it does not detect a board, it will display the Unable to Pair screen.

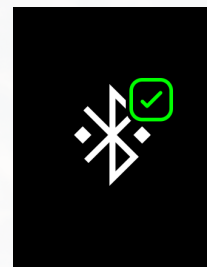
Once the hand controller is paired with a board, it will be tethered to that specific board. If you turn on the hand controller for a second time, it will search for that specific board and connect to it. If that board is not turned on and in range, the Lost Connection screen will appear.

You can cancel the pairing process by pressing the Select button. The Unable to Pair screen will appear.

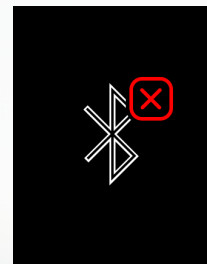
NOTE: The Elite Hand Controller is only compatible with the LIFT4 eFoil and future Lift eFoil generations. If riders have a previous generation eFoil, it is only compatible with the Lift Classic Hand Controller.



Attempting to pair



Paired with board



Unable to pair



Lost connection



CHARGING THE HAND CONTROLLER



To charge the hand controller, attach the magnetic USB-C charging cable to the charge port found on the underside of the hand controller above the trigger. Plug the charging cable into a USB-C power source.

While the hand controller is charging, the green LED above the display screen, next to the Lift logo, will blink.

NOTE: The hand controller will charge faster when turned off during the charging process.

When the hand controller battery is fully charged, the green LED will remain on.

Charging takes approximately two hours if the battery is fully depleted.

NOTE: Ensure the magnetic charge port is clean and clear of any particles or debris that may prevent the cable from connecting properly.



INSTALLING THE HAND STRAP



While you can use the hand controller without the hand strap, we strongly recommend installing it prior to using the hand controller.

It's best to correctly fit the hand strap to your hand before heading out on the water.

Thread the strap through the upper and lower hand strap anchors found on the right and left side of the hand controller. Choose which side is best depending on whether you are left- or right-handed.

Thread the strap ends through the sliders. Pull the straps through to adjust to the appropriate tightness to best fit your hand. Tuck any loose ends into the pockets of the fabric panel.





ADJUSTING THE TRIGGER POSITION

You can adjust the position of the trigger for comfortable use.



1. To adjust the trigger, place the T10 Torx wrench into the trigger bolt and loosen by turning counterclockwise.



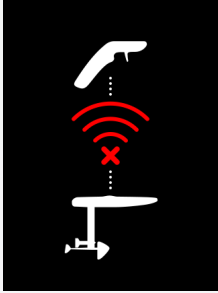
2. Once loosened, slide the trigger along its rail to the desired location.



3. Tighten the bolt by turning the wrench clockwise. Do not overtighten.



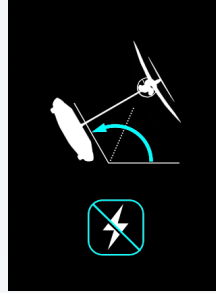
WARNINGS AND SCREEN GUIDE



Lost Connection

Appears when the connection between the eFoil and hand controller is weak or has been disconnected.

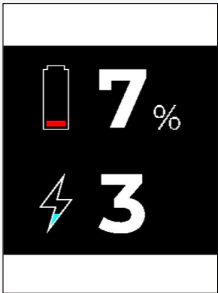
Move closer to the board or re-pair to reconnect.



Tilt

Appears when the board reaches a severe angle, it will disable the motor.

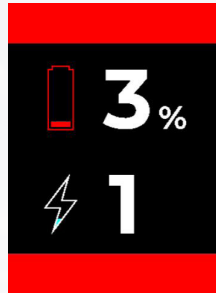
To re-enable, the board must be in an upright angle and the trigger cannot be pressed.



Low Battery

Appears when the eFoil battery is at or below 10%.

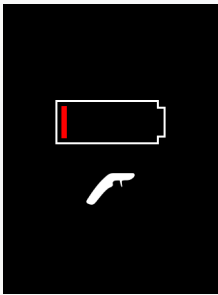
Return to shore.



Critical Low Battery

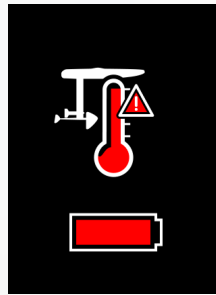
Appears when the eFoil battery is at or below 5%.

Return to shore immediately.



Hand Controller Low Battery

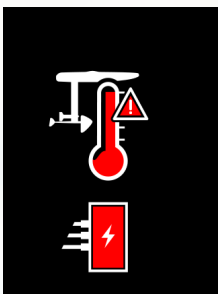
Appears when the hand controller battery is at 10% or lower and a charge is needed.



eFoil Battery Over Temperature

Appears when the eFoil battery is too hot. If you are riding at a high speed when this screen appears, it will slowly reduce speed to zero.

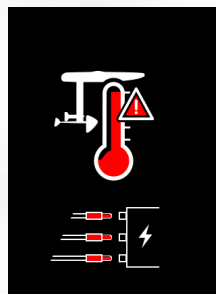
Reduce power and/or move it to a cooler environment.



eBox Over Temperature

Appears when the eBox is too hot. If you are riding at a high speed when this screen appears, the eFoil will slowly reduce speed to zero.

Ensure the water lines are properly connected.



Electrical Contacts Over Temperature

Appears when the plugs are too hot. The trigger will not engage the motor until this is addressed.

Ensure all plugs are fully seated/installed.



Over Current

Appears when there is too much current being drawn from the eFoil battery. The eFoil will be disabled until you return to a lower power draw on the battery.

Release the hand controller trigger to reset the eFoil board to zero speed.



Trigger Sensor

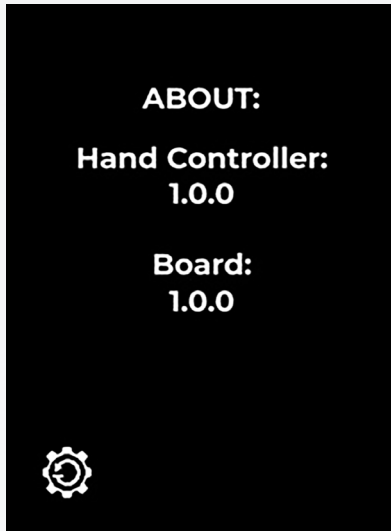
Appears when the trigger is detected to be in an abnormal position, it will disable the motor.

The trigger must be in its neutral position at start up before engaging the motor.

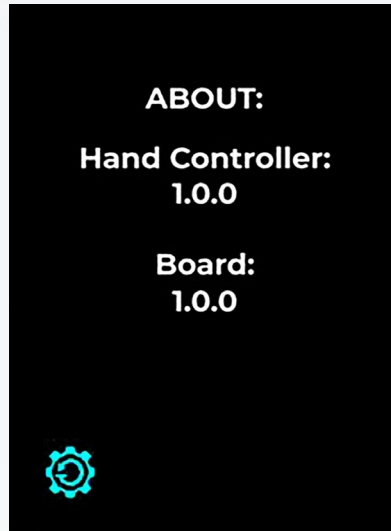


FACTORY RESET

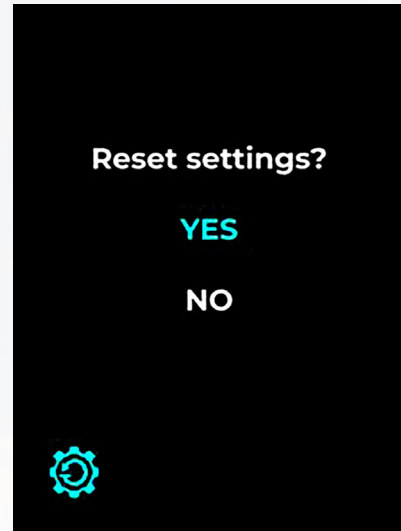
To reset all settings to default:



1. Highlight the Reset icon in the About screen



2. Press Select



3. Press Yes

The hand controller will power down. Once turned on, it will enter into auto-pair mode.

MAINTENANCE AND STORAGE

When you are finished eFoiling, always turn off the hand controller before dismounting your board or attempting to take the board out of the water.

1. Rinse the hand controller in fresh water and dry it off.
2. Place the hand controller in the provided protective case when not in use. We recommend storing the hand controller in the Lift Propulsion Case, as it's designed to fit in this location.

3. Store the case in a cool, dry location, keeping it out of direct sunlight whenever possible.

Ideal storage temperatures: 32-86°F (0-30°C)

Acceptable storage temperatures: 14-104°F (-10-40°C)

Storing the hand controller outside of the ideal storage temperature range will cause the battery to drain faster.

CUSTOMER SUPPORT

The Elite Hand Controller is subject to a two-year manufacturer's limited warranty. For full details, please refer to the Lift Foils website: www.liftfoils.com

When you purchase Lift Foils products, you're investing in a lifetime of customer care, new technology and new frontiers. If you have questions about your Lift eFoil, accessories or gear, please contact us.

help@liftfoils.com

+1 (787) 609-6198