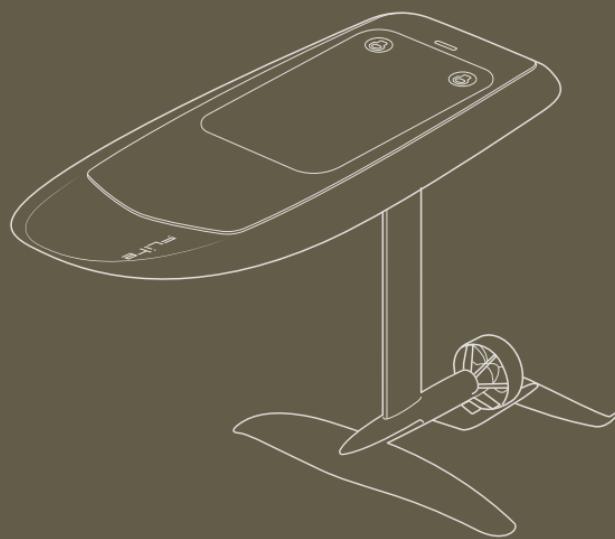


SERIES 2

FLiTeboard

User Guide





Find Freedom. Take Flite.

## **Important**

IN ORDER TO OPERATE THE PRODUCT CORRECTLY AND MINIMISE THE CHANCES OF DAMAGE, SERIOUS INJURY OR DEATH, IT IS ESSENTIAL TO READ AND FOLLOW ALL OF THE INSTRUCTIONS AND WARNINGS IN THE USER GUIDE PRIOR TO ASSEMBLY, SETUP OR USE. BY USING A FLITEBOARD YOU AGREE THAT YOU DO SO AT YOUR OWN RISK.

CAUTION: THIS PRODUCT HAS BEEN KNOWN TO DRAMATICALLY IMPROVE YOUR LIFE AND HAPPINESS LEVELS.



For the latest version of this guide visit

[support.fliteboard.com](http://support.fliteboard.com)



Watch our video tutorials at

[fliteboard.com/video](http://fliteboard.com/video)



Authorised Flite Service, Resellers and Fliteschools

[fliteboard.com/locations](http://fliteboard.com/locations)



Download Flite APP from App Store  
IOS only, V10.7 or higher. Android version coming soon - check the Google Play store.

[apps.apple.com/au/app/fliteboard/id1499441319](http://apps.apple.com/au/app/fliteboard/id1499441319)



Watch our Flite APP update video

[tinyurl.com/yb3vudw8](http://tinyurl.com/yb3vudw8)



Post-storage checklist

[tinyurl.com/y7vv5brg](http://tinyurl.com/y7vv5brg)



Material Safety Data Sheets

[tinyurl.com/yczdbueu](http://tinyurl.com/yczdbueu)



Fliteboard support

[support.fliteboard.com](http://support.fliteboard.com)



Fliteboard contact

[fliteboard.com/contact](http://fliteboard.com/contact)

## Fliteboard User Guide

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## Safety & disclaimer

All safety & disclaimer information is subject to change at the sole discretion of Fliteboard. For up-to-date product information visit [support.fliteboard.com](http://support.fliteboard.com)

## Warning

Failure to operate this product in a safe and responsible manner could result in injury or death to yourself or others and/or damage to the Fliteboard or other's property.

**THIS PRODUCT MUST BE OPERATED WITH CAUTION AND COMMON SENSE AND REQUIRES SOME BASIC MECHANICAL ABILITY.**

**FLITEBOARD IS NOT INTENDED FOR USE BY CHILDREN UNDER 16 YEARS OF AGE, SUBJECT TO LOCAL LAWS AND REGULATIONS.**

**DO NOT USE WITH INCOMPATIBLE COMPONENTS OR ALTER THIS PRODUCT IN ANY WAY OUTSIDE OF THE DOCUMENTS PROVIDED BY FLITEBOARD.**

**FLITEBOARD IS NOT A TOY. EXERCISE CAUTION. ACT RESPONSIBLY WHILE OPERATING.**

**CONSIDER THE SAFETY OF YOUR ENVIRONMENT BEFORE OPERATING FLITEBOARD. DO NOT RIDE IN SHALLOW WATER (LESS THAN 1.5M IN DEPTH), ROCKY AREAS OR IN SEVERE WEATHER CONDITIONS.**

**IT MAY BE NECESSARY TO OBTAIN A LICENCE OR PERMIT TO USE A FLITEBOARD IN CERTAIN STATES OR COUNTRIES.**

## Intended use

Fliteboard is for operation by one person only, who should be over the age of 16 (or as local laws apply). It is not designed for passengers or towing of objects or people.

Fliteboard must travel at a safe speed so that Fliteboard can be stopped in time to avoid any danger which may suddenly arise. When judging a safe speed, you must consider a number of issues - visibility, other vessels, navigation hazards, wind, waves and currents, waterway width and the manoeuvrability of your vessel.

For your safety and that of others, please ensure that you obtain proper training or practice before operating Fliteboard yourself.

This instruction manual does not provide boating safety or seamanship advice. Please consult local laws and guidelines for boating safety.

If you have any questions about the operation or maintenance of Fliteboard, please consult Fliteboard technical support, or an Authorised Flite Reseller.

This manual should be considered a permanent part of Fliteboard and should remain with it even if it is subsequently sold.

## Propulsion system

The Fliteboard propulsion system includes a powerful spinning propeller.

**KEEP BODY, FINGERS AND TOES AWAY FROM THE FLITEBOARD'S SPINNING PROPELLER.**  
CONTACT WITH THE PROPELLER WILL CAUSE SERIOUS INJURY OR DEATH.

NEVER TOUCH THE PROPELLER IN OR OUTSIDE OF THE WATER.

NEVER HANDLE THE PROPELLER WHILE THE FLITECELL IS CONNECTED.

ALWAYS FLITEBOARD A SAFE DISTANCE FROM OTHER WATER CRAFT, SWIMMERS, SURFERS AND WILDLIFE.

NEVER FLITEBOARD IN SEAWEED OR CONTAMINATED WATER.

## Hydrofoil safety

The Fliteboard hydrofoil system comprises a mast (or strut), a main wing and stabiliser wing. These components include sharp trailing edges and wing tips. Take care not to kick or hit the sharp edges when in the water.

FALLING ON THE HYDROFOIL CAN CAUSE SERIOUS INJURY OR DEATH.

ALWAYS WEAR A HELMET AND PERSONAL FLOTATION DEVICE (PFD) WHEN FLITEBOARDING.

TAKE CARE TO LEARN STEP BY STEP, FOLLOWING THE INSTRUCTIONS IN THIS GUIDE AND THE FLITEBOARD VIDEO TUTORIALS AT [fliteboard.com/video](http://fliteboard.com/video)

## Learning to Fliteboard

We recommend learning to Fliteboard with an instructor at an authorised Fliteschool. Fliteschool locations can be found at [fliteboard.com/locations](http://fliteboard.com/locations)

PLEASE VIEW OUR HOW TO FLITEBOARD VIDEO AT [fliteboard.com/video](http://fliteboard.com/video) TO LEARN THE PROPER TECHNIQUE AND REVIEW RIDING SAFETY INFORMATION.

FLITEBOARD IS NOT SUITABLE FOR RIDING BREAKING WAVES IN THE SURF ZONE. RIDERS DO SO AT THEIR OWN RISK. FLITEBOARD SHOULD NEVER BE RIDDEN NEAR OTHER WATER USERS (INCLUDING SWIMMERS AND SURFERS) OR OFFSHORE FROM SWIMMERS AND SURFERS (IN CASE FLITEBOARD IS PUSHED TOWARDS SHORE IN A WAVE).

FLITEBOARDING CAN BE EASY WHEN PROPER TECHNIQUE IS APPLIED. INCORRECT TECHNIQUE CAN RESULT IN INJURY OR DAMAGE.

## Important rider safety

### 1 Read the manual and watch the How to Fliteboard video

Before attempting to Fliteboard for the first time, read this manual and pay special attention to the warnings and disclaimers. Most injuries can be avoided by using proper technique when learning. Watch the How to Fliteboard video at [fliteboard.com/video](http://fliteboard.com/video)



### 2 Wear a helmet and PFD

Wear an approved and certified helmet and PFD (Personal Flotation Device) at all times.

There may be specific rules and legal requirements in your location that also apply.



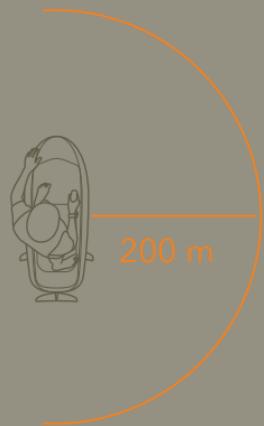
### 3 Avoid contact with the wings and propeller

Avoid contact with the wings, mast and propeller which all have sharp edges. Take care to not kick the wings when climbing on to the board.



## 4 Keep distance

Keep well clear of other water users at all times. Check regulations for vessel operating distance rules in your area. Always be on the look out for swimmers, other vessels or obstacles when riding which may be obscured by waves or glare.



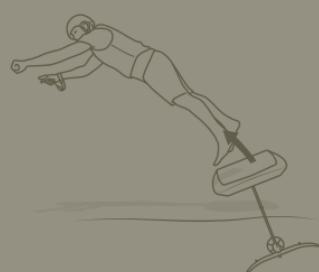
## 5 Release the throttle

Release the trigger immediately on committing yourself to a fall. This will stop the propeller and reduce the forces which could otherwise lead to a more extreme crash. Practice this skill when learning with the goal of stopping the propeller before you hit the water in a fall.



## 6 Fall away from Fliteboard

The best way to avoid injury is to practice the correct falling technique. As soon as you begin to lose balance, purposely fall in the direction the board is already falling. You will then likely end up in the water on the opposite side to the hydrofoil assembly. Like being on stilts - it is impossible to regain balance once your weight is no longer above the hydrofoil wings (unless you are turning).



## Flitecell

Flitecell is a carefully engineered water resistant unit. If the Flitecell is damaged (for example during transportation or handling) the seal may become compromised. A damaged Flitecell that comes into contact with water may result in internal damage including corrosion which could result in a fire and/or explosion.

USE FLITECELL AT YOUR OWN RISK.

SIGNS OF A COMPROMISED FLITECELL:

- SIGHT GLASS LABEL HAS TURNED RED, INDICATING WATER INGRESS
- LOOSE SCREWS/RIVETS
- CONNECTOR COMING LOOSE
- CRACK IN HOUSING/CASE
- DEFORMATION
- UNUSUAL SMELL
- HIGH TEMPERATURE DURING CHARGING (60° C OR MORE)

CAREFULLY INSPECT FLITECELL BEFORE EACH USE.

IF A FLITECELL CASING HAS VISIBLE DAMAGE AND THE FLITECELL FALLS INTO WATER, TAKE IT OUT IMMEDIATELY AND PUT IT IN A SAFE AND OPEN AREA. MAINTAIN A SAFE DISTANCE FROM FLITECELL UNTIL IT IS COMPLETELY DRY. DON'T USE FLITECELL AGAIN AND DISPOSE OF FLITECELL PROPERLY.

FLITECELL MUST BE USED IN TEMPERATURES FROM 0°C TO 40°C. USE OF FLITECELL IN ENVIRONMENTS ABOVE 40°C MAY LEAD TO AN OVERHEATED BATTERY. USE OF FLITECELL BELOW 0°C CAN LEAD TO PERMANENT FLITECELL DAMAGE.

ALWAYS KEEP FLITECELL DRY. IF FLITECELL HAS BEEN EXPOSED TO WATER, PLACE IN A COOL DRY PLACE.

DO NOT DROP OR STRIKE FLITECELL.

DO NOT PLACE HEAVY OBJECTS ON FLITECELL OR THE CHARGER.

DO NOT CHARGE OR USE A DAMAGED FLITECELL. IF YOUR FLITECELL IS COMPROMISED, CONTACT FLITEBOARD OR AN AUTHORIZED FLITEBOARD DEALER FOR FURTHER ASSISTANCE.

DO NOT USE FLITECELL IF IT WAS INVOLVED IN A CRASH OR HEAVY IMPACT.

DO NOT USE A NON FLITECELL BATTERY. ANY DAMAGE CAUSED BY A NON-OFFICIAL BATTERY WILL NOT BE COVERED BY WARRANTY.

DO NOT DISASSEMBLE FLITECELL. DOING SO COULD CAUSE AN INJURY OR LEAD TO A WATER LEAK OR FIRE. TAMPERING WITH THE FLITECELL BATTERY WILL VOID THE WARRANTY.

DO NOT HEAT FLITECELL. KEEP AWAY FROM HEATING SOURCES AND OUT OF DIRECT SUNLIGHT.

DO NOT PUT FLITECELL IN A MICROWAVE OVEN, FREEZER OR IN A PRESSURISED CONTAINER.

DO NOT OPEN FLITEBOARD LID UNDER ANY CIRCUMSTANCES WHILST IN WATER OR WITH WET HANDS.

IN CASE OF A FLITEBOARD OR FLITECELL FIRE, EXTINGUISH WITH:

- COLD WATER WITHOUT ADDITIVE
- DRY POWDER IN LARGE AMOUNT (USE METAL FIRE EXTINGUISHER POWDER OR DRY SAND IF ONLY A FEW CELLS ARE IMPACTED)

FOR FURTHER INFORMATION ABOUT INCIDENT RESPONSE AND DISPOSAL. PLEASE REFER TO THE MSDS.

DISPOSE OF THE FLITECELL IN SPECIFIC RECYCLING BOXES ONLY AFTER A COMPLETE DISCHARGE. DO NOT PLACE FLITECELL IN REGULAR TRASH CONTAINERS. STRICTLY FOLLOW YOUR LOCAL REGULATIONS REGARDING THE DISPOSAL AND RECYCLING OF BATTERIES.

## Warranty

Fliteboard comes with a Limited Warranty which covers defects in materials or workmanship of the product and aligns to relevant consumer laws of the location of purchase. Further details about the Fliteboard Limited Warranty are set out in your Purchase Agreement.

For our Australian customers:  
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Please ensure that you complete the Warranty Registration/Details of Purchase card at the end of this manual.

## Maintaining your Warranty

Fliteboard is more than a surfboard. Similar to any other electric powered vehicle, it needs to be serviced regularly and maintained to ensure good working order and to prevent breakage.

In order to maintain the above warranty, **a mandatory initial 6 month service of the eFoil is required.**

Only an authorised service partner or Fliteboard HQ can carry out this service, including the ongoing schedule of service, every 12 months or 100hrs thereafter and any warranty or non-warranty repairs. To find your nearest service partner, visit [fliteboard.com/locations](http://fliteboard.com/locations)

Fliteboard has been extensively tested with riders weighing up to 100kg. Heavier, experienced riders, may be able to use

Fliteboard, however our factory specified limit for warranty and other purposes is 100kg.

## Initial 6 month service

This is to check the seals and oil, and conduct an overall inspection of the eFoil only.



The unit needs to be sent to an authorised partner or Fliteboard HQ (whichever is closest) and packed carefully in the original foam and eFoil bag.

Please refer to our 'Packing your Fliteboard' video and help documentation via [support.fliteboard.com](http://support.fliteboard.com)

**The Fliteboard Limited Warranty is void if your Fliteboard has missed the required service schedule.**

## Repairs

If subjected to damage, the epoxy construction boards (Fliteboard, PRO and ULTRA) can be repaired by your local surfboard repair specialist. The inflatable construction Fliteboard AIR may be repaired using the included repair kit.

## Shipping compliance

Shipping batteries can be illegal and dangerous if not done in accordance with dangerous goods shipping regulations. Always consult an appropriate specialist before shipping your Flitecell. Refer to the included MSDS regarding shipping your Flitecell by air or sea.

## What's in the box

You will receive your Fliteboard in three separate shipment packages.

### Box 1: Fliteboard

Within the included padded board bag you will find either Fliteboard, Fliteboard PRO, Fliteboard ULTRA or Fliteboard AIR (depending upon your choice).



Fliteboard ULTRA travel bag



Fliteboard ULTRA



Fliteboard PRO travel bag



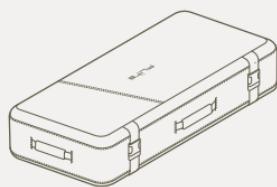
Fliteboard PRO



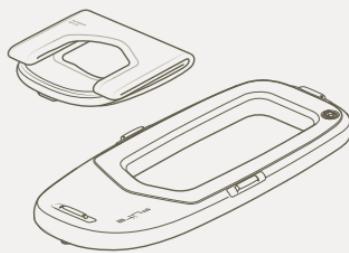
Fliteboard travel bag



Fliteboard



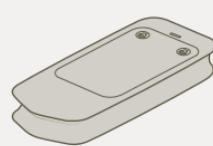
Fliteboard AIR travel bag



Fliteboard AIR



Fliteboard AIR pump and hose



Fliteboard AIR core

## Box 2: Flitecell



Flitecell travel bag



Flitecell Explore



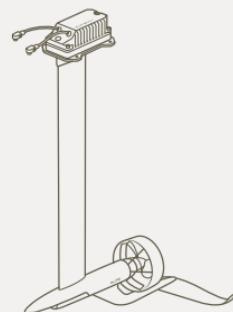
Flitecell Sport

### Box 3: Flite eFoil travel bag

Within the included travel case you will find the following components:

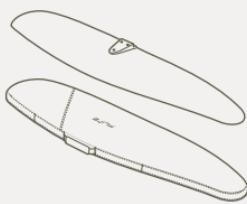


eFoil travel bag

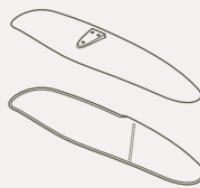


eFoil system including:

- Flitebox
- Flite propulsion system
- Fuselage tail



Cruiser 1800 Wing  
+ cover



Cruiser 1100 Wing  
+ cover



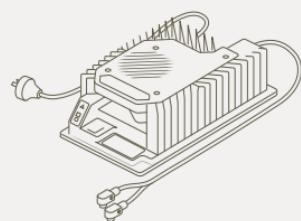
Flyer 800 Wing  
+ cover



500 Stabiliser Wing  
+ cover



290 Stabiliser Wing  
+ cover



Flitecell Premium  
25A Charger

Actual wing choice, mast length and charger type are dependent on your specific configuration.

### Box 3: Accessories pouch

Within the included accessories pouch you will find the following components:



Accessories pouch



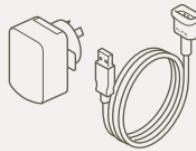
Tef-Gel



O-Ring + spare



Elite Controller



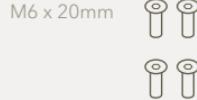
Flite Controller  
USB wall charger  
and charging cable



Stabiliser Wing shims  
6 x styles (0-5)



M6 Hex key



eFoil



Tail



Cruiser 1800 Wing



Cruiser 1100 Wing



Flyer 800 Wing



500 Stabiliser Wing



290 Stabiliser Wing

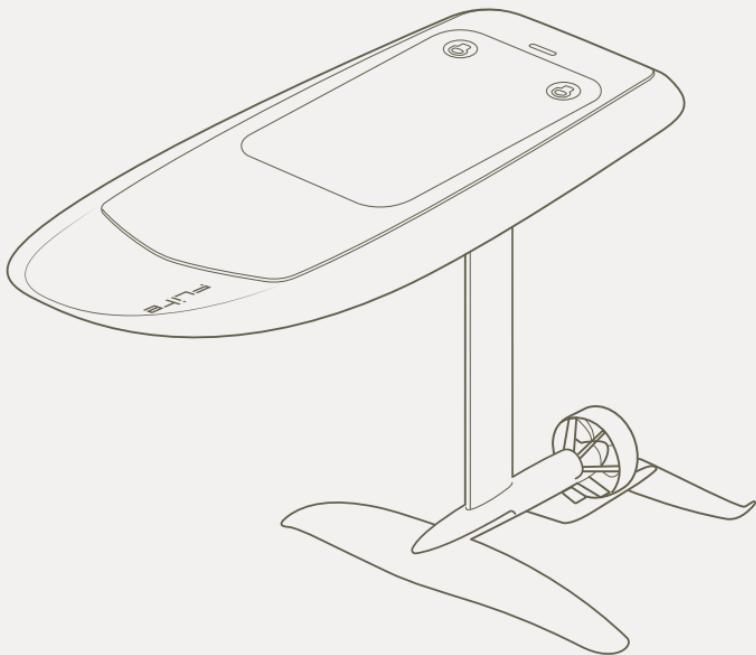
## Getting started

The best way to learn to Fliteboard is to find a Fliteschool in your area. Locate your nearest Fliteschool at [fliteboard.com/fliteschool](http://fliteboard.com/fliteschool)

Watch the Fliteboard video guides at [fliteboard.com/video](http://fliteboard.com/video)

In order to operate the product correctly avoiding damage or serious injury it is essential to read and follow all instructions and warnings in the user guide prior to assembly, setup or use.

IT IS BEST TO ASSEMBLE YOUR BOARD IN A CLEAN, DRY ENVIRONMENT.



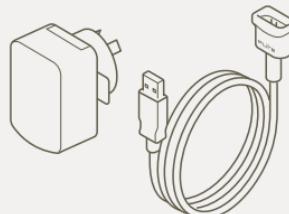
## Charging Flite Controller

- 1 Remove Flite Controller from the accessories pouch. (Located in the eFoil bag).
- 2 Remove Flite Controller USB Wall Charger and Charging Cable from the accessories pouch.
- 3 Carefully peel out the rubber cover on the underside of Flite Controller. Attach the magnetic charging plug, ensuring the charging pins are connected.
- 4 Plug in the USB Wall Charger and turn on. When the Flite Controller is charging correctly, the screen will show a charging message. After a few minutes the screen will hibernate to speed the charging process. Be careful not to disconnect the magnetic charging plug whilst charging. Always check to ensure the Flite Controller is at least 50% charged before each use.

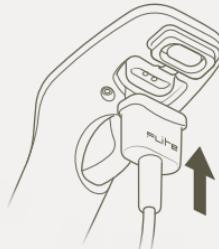
1



2



3



4



## Flitecell Charger procedure

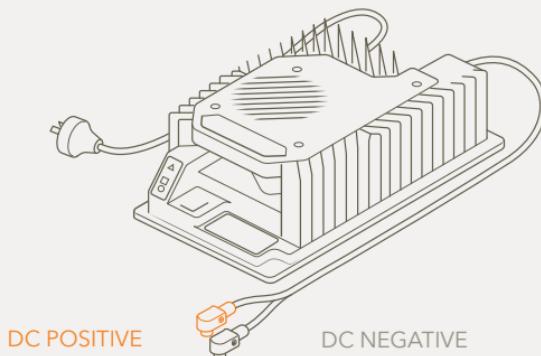
DO NOT COVER THE CHARGER OR INTAKE DURING CHARGING.  
THE CHARGER SHOULD BE PLACED OUT OF THE REACH OF CHILDREN.  
CHARGE IN AN INDOOR AREA WITH GOOD VENTILATION AND HEAT DISSIPATION.

DO NOT CHARGE IN HUMID, HIGH TEMPERATURE CONDITIONS.  
DO NOT CHARGE NEAR FLAMMABLES OR EXPLOSIVES. DO NOT DISASSEMBLE THE CHARGER: THERE IS A DANGER OF HIGH VOLTAGE IN THE CHARGER CASE.

FLITEBOARD DOES NOT BEAR ANY RESPONSIBILITY FOR INCORRECT USE OF THE CHARGER. USERS MUST OPERATE THE CHARGER ACCORDING TO THE INSTRUCTION MANUAL.

ALWAYS KEEP THE RED TERMINAL CAPS ON THE FLITECELL WHEN NOT CONNECTED TO THE BOARD/CHARGER.

### Flitecell Premium 25A



### Flitecell Premium 25A Indicator Guide



Power on



Flashing green

Charging



Solid red

Charger fault

See charger manual



Flashing amber

External error

See charger manual



Flashing green

USB port active

Solid green

Safe to remove USB flash drive

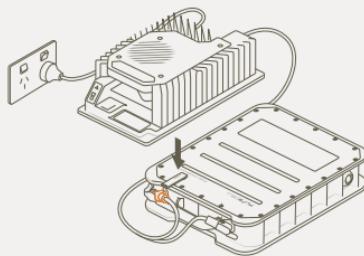
## Charging Flitecell

- 1 Remove Flitecell from its travel bag.
- 2 Place Flitecell in a cool dry location away from flammable or hot items.
- 3 Connect Flitecell charger plugs to Flitecell terminals ensuring to connect the orange (positive) connector to the orange terminal first and the black (negative) connector to the black terminal.
- 4 Check that connections have been made correctly. Plug the charger in the wall socket. A supplied magnet located in the accessories pack, is required to be placed on Flitecell, as shown by arrow, (5 - 10 seconds) to activate charging. If the magnet has been misplaced, you can use the base of Flite Controller to initiate charging.
- 5 The charger will automatically turn off when the charging process is complete.

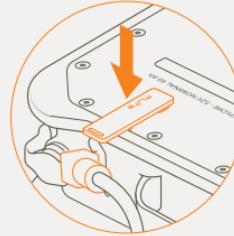
FLITECELL IS A POWERFUL BATTERY CONTAINING A SIGNIFICANT AMOUNT OF ENERGY. CHARGING A DAMAGED FLITECELL CAN RESULT IN A FIRE OR EXPLOSION. ALWAYS INSPECT THE FLITECELL BEFORE CHARGING. CHARGE THE FLITECELL UNDER SUPERVISION, IN A SAFE LOCATION, AWAY FROM DIRECT SUNLIGHT, MOISTURE AND AWAY FROM FLAMMABLE OBJECTS AND SURFACES.

THE BATTERY MANAGEMENT SYSTEM (BMS) BALANCES AND OPTIMISES FLITECELL DURING EACH CHARGE CYCLE.

IT IS RECOMMENDED TO LEAVE THE FLITECELL CONNECTED TO A POWERED OFF CHARGER AFTER A FULL CHARGING CYCLE, WITH THE MAGNET STILL CONNECTED (THIS KEEPS THE FLITECELL ON ONLY). THIS ENSURES THAT BOTH THE TERMINALS +/- ARE PROTECTED FROM SHORTING AND THE CELLS WITHIN THE FLITECELL CONTINUE TO SELF-BALANCE BETWEEN USE.



Flitecell light



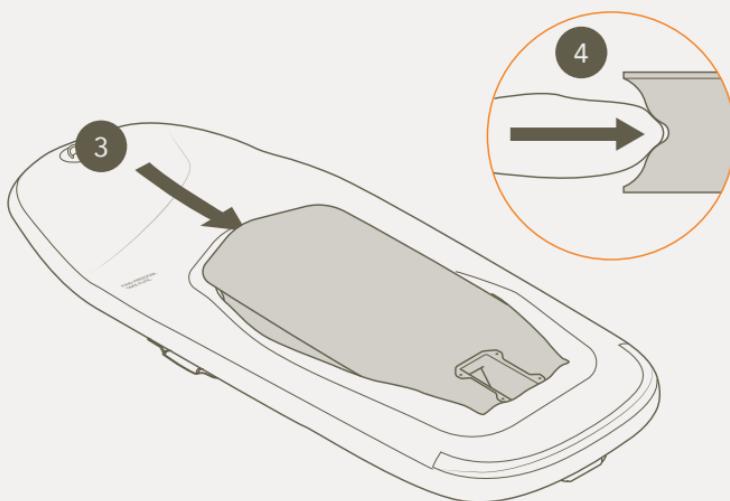
MAGNET PLACED TO ACTIVATE CHARGING

Light meaning

● ● ● ●	Red light flashes Red light on	Capacity 0% - 10% Capacity 10% - 20%
● ● ● ●	Green light on Green light flashing	Capacity is 20% - 35% Capacity 0% - 35% + charging
● ● ● ●	Two green lights on One on + one flashes	Capacity 35% - 65% Capacity 35% - 65% + charging
● ● ● ●	Three green lights on Two on + one flashes	Capacity 65% - 100% Capacity 65% - 100% + charging

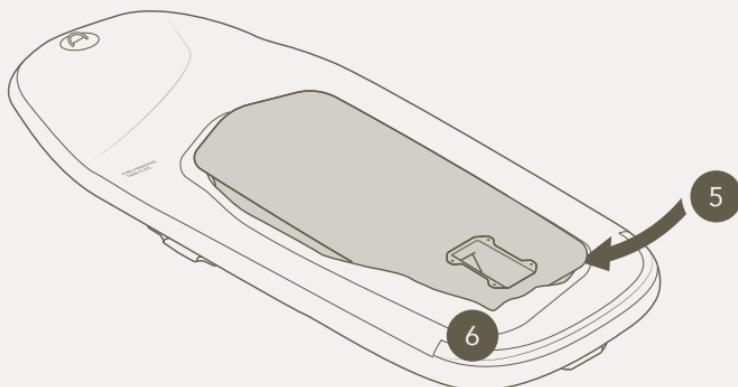
## Fliteboard AIR assembly

- 1 Unroll Fliteboard AIR bladder face down.
- 2 Place the rigid core (Flitebox cavity side up) on a flat surface.
- 3 Slide bladder onto core from front end first.



- 4 Ensure bladder is well tucked into the recess along the front edge of the core.
- 5 Carefully stretch bladder over one rear corner first.

NOTE THAT THE REAR UNDERSIDE EDGES OF THE CORE ARE DELIBERATELY SHORTER THAN THE TOP FACE TO MAKE FITMENT OF THE BLADDER EASIER.



Stretch the bladder over the last corner. Again, be careful that the bladder is positioned evenly and not creased or caught.

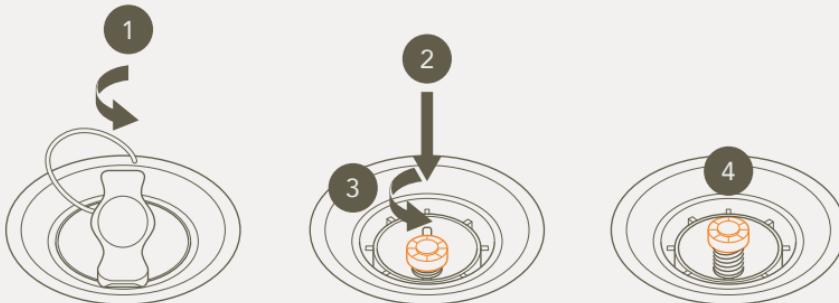
- 6 Check bladder is seated correctly around the core before carefully flipping the Fliteboard AIR over.

PLACE ON A SMOOTH, SOFT SURFACE TO AVOID SCRATCHING THE CARBON FINISH ON THE CORE.

WHEN FLIPPING THE FLITEBOARD AIR OVER, BE SURE THAT THE ORANGE O-RING IS SEATED CORRECTLY AND STAYS IN PLACE.

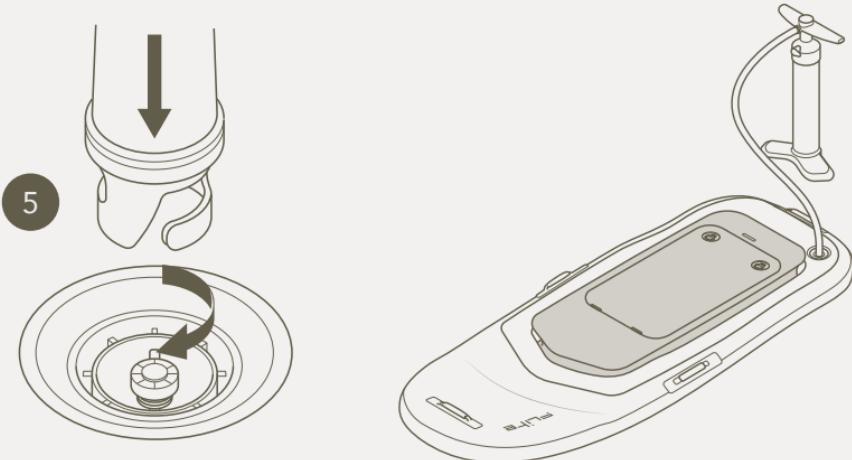
## Inflating the Fliteboard AIR

- 1 Twist the valve cap anti-clockwise to remove.
- 2 To inflate, push the central valve down.
- 3 Twist anti-clockwise to release.
- 4 The valve will pop up. This ensures the bladder will not deflate when you remove the hose after inflation.

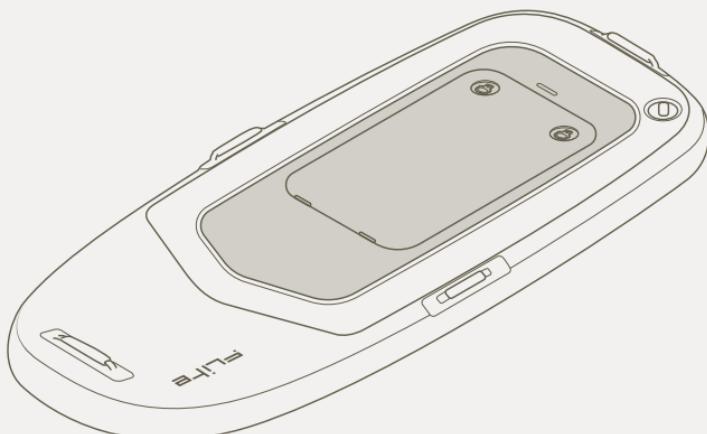


- 5 Connect pump hose to valve and inflate bladder to 15 - 16 PSI.

THIS IS IMPORTANT FOR OPTIMUM PERFORMANCE AND SAFETY.

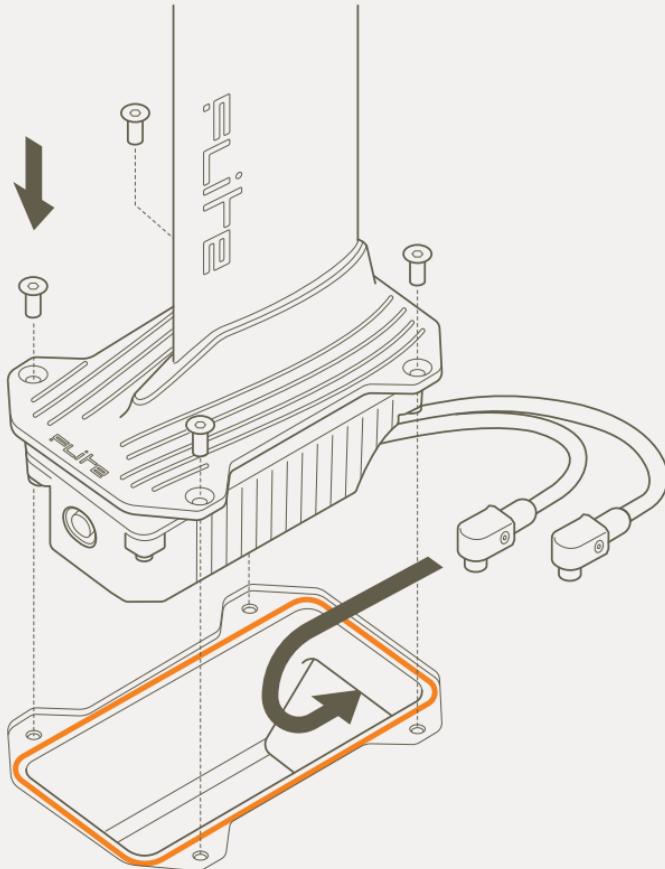


- 6 Once inflated to 15 - 16 PSI, twist the pump hose anti-clockwise to remove and re-fit the valve cover cap. When disconnecting the pump hose, no air should escape from the valve. If the bladder deflates you must release the central valve (see step 2) and re-inflate. Fliteboard AIR is now inflated.



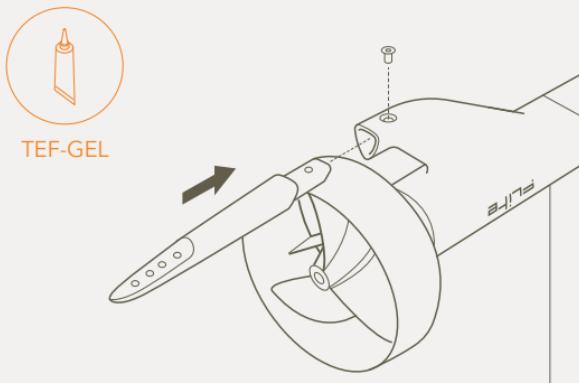
## Connect the eFoil to Fliteboard

- 1 Remove the Fliteboard from its bag and place upside down on the bag or other protective surface. Locate the Flitebox cavity on the bottom of the board and ensure the 4 retaining screws are removed.
- 2 Check to ensure the orange o-ring is inserted, properly seated in the Flitebox cavity o-ring groove, clean and free of sand, grit or water.
- 3 Carefully lift the eFoil from its bag and place the Flitebox into the cavity. While doing this ensure the power cables feed through into the Fliteboard cavity.
- 4 Ensure the Flitebox is properly seated in the cavity and flush with the board surface.
- 5 Insert the 4 x 20mm Stainless Steel Hex fasteners. Tighten them in a cross pattern, first using your fingers to ensure the threads are properly engaged, and then using the supplied hex key. Use a torque of 6 Nm to tighten the fasteners.
- 6 Medium force needs to be applied when using the long arm of the hex key to ensure the fasteners are tight.
- 7 When properly tightened, the eFoil should be secured and the o-ring compressed. Failure to properly tighten the fasteners or fit the o-ring will result in a board leak.
- 8 Be careful not to over-tighten the fasteners as this could result in stripped threads or damaged fasteners.



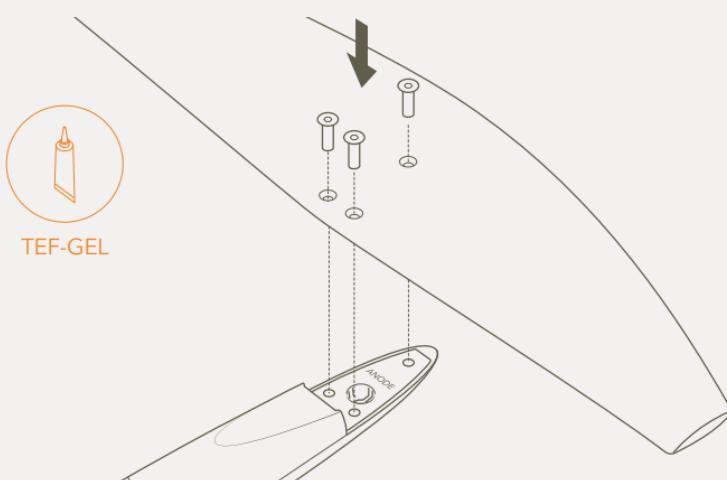
## Connect the fuselage tail

- 1 With the board upside down and the eFoil connected, take the 20cm long aluminium fuselage tail from the travel bag and insert into the fin under the propeller guard. Add a light cover of Tef-Gel to the tail connection.
- 2 Add a thin layer of Tef-Gel from the tube supplied to the thread of the supplied 12mm fastener bolt and carefully tighten using the hex key using torque of 6 Nm.



## Connect the Wing

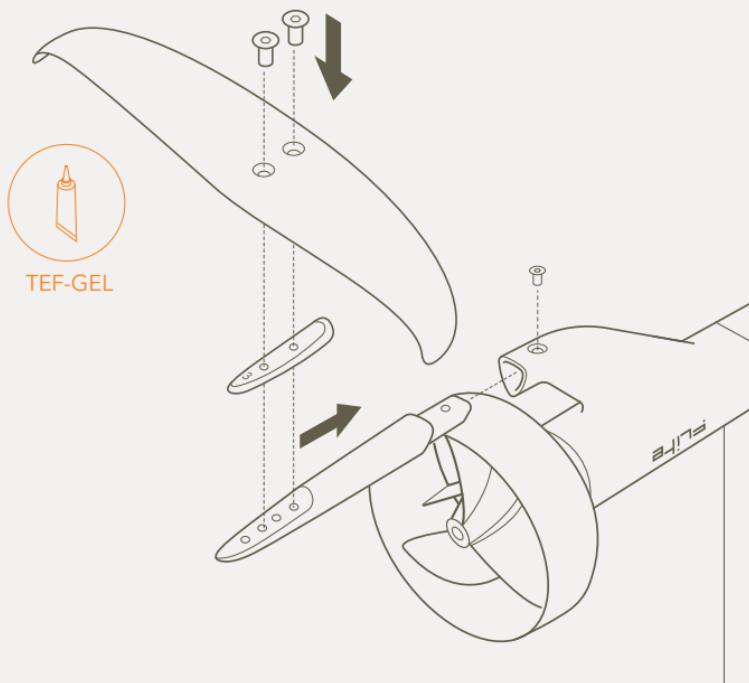
- 1 Remove your front wing from the travel bag and from its wing cover (if attached – depending on model).
- 2 Place the wing in position as shown.
- 3 Insert the 3 fasteners taking care to ensure the correct set is being used for the particular wing model you are fitting (Refer to page 15). ALWAYS add Tef-Gel to the fasteners first. The fasteners should extend by approximately 6mm through the Wing when placed in the countersunk holes.
- 4 Tighten the fasteners with the supplied hex key, ensuring the fasteners are tight enough that the wing cannot move or wobble significantly during use. Use a torque of 6 Nm to tighten the fasteners.



## Connect the Stabiliser Wing

- 1 Take the Stabiliser Wing from the travel bag and remove the wing cover.
- 2 Take the correct Stabiliser Wing shim from the accessories pouch and fit between the Stabiliser Wing and the fuselage tail.
- 3 Connect the orange power cable to the orange power connector in Flitecell. You will feel a secure click when properly engaged.
- 4 To ensure correct mounting, direction and placement, the wing when installed correctly should have the wings tips facing away from you (the countersunk thread is an indication of this). The correct direction, is that of the rounded, curved leading edge facing the front wing.

ALWAYS ADD TEF-GEL TO THE STAINLESS STEEL FASTENERS THAT ARE BEING INSERTED INTO THE ALUMINIUM. IF LEAVING WINGS ATTACHED FOR EXTENDED PERIODS, ENSURE THAT YOU LOOSEN FASTENERS AND RE-APPLY TEF-GEL EVERY FEW WEEKS. FAILURE TO DO SO MAY RESULT IN CORROSION AND DAMAGE TO YOUR EFOIL FASTENER INSERTS.

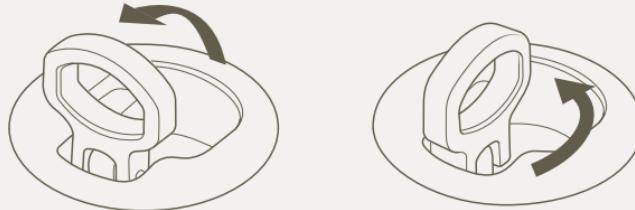


**PRO TIP** We have supplied 0, 1, 2, 3, 4 and 5 degree shims for you to experiment with to customise your ride. Which shim suits best depends on many aspects such as: preferred riding style, preferred riding speed, riding conditions, skill level and personal preference changing shims alters the amount of stabilising downforce provided by the tail, and also impacts the balance point of the foil and responsiveness. Beginners should start with 1 or 2 and adjust based upon preference. Lower shim numbers allow faster speeds without too much front foot pressure, higher shim numbers create more stability and responsiveness, but lead to more lift at high speeds.

## Connect Flitecell to Fliteboard

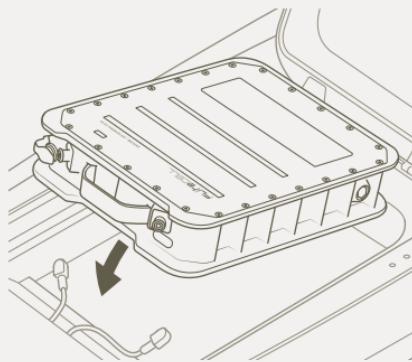
With the eFoil, fuselage tail and wings attached, it's time to carefully turn your board over so it stands on BOTH the front wing and nose of the board.

- 1 Twist the Lid Latches and open the board Lid.



DO NOT OPEN LID WHILST IN THE WATER UNDER ANY CIRCUMSTANCES.

- 2 Take Flitecell by the handle and carefully lower it into the board cavity, ensuring to move cables out of the way first. The warning label should be facing up.



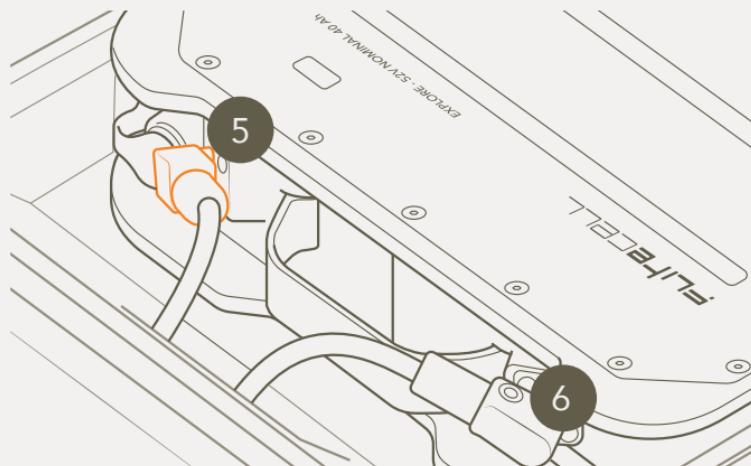
BE CAREFUL NOT TO DAMAGE THE BOARD SEAL WHEN FITTING FLITECELL. ANY KNICKS, CUTS OR DAMAGE TO THE SEAL MAY RESULT IN LEAKS.

BE CAREFUL NOT TO RECONNECT FLITECELL POWER CABLES, WITHIN 10 SECONDS OF DISCONNECTION TO AVOID A POSSIBLE ARC.

- 3 Connect the orange power cable to the orange power in Flitecell. You will feel a secure click when properly engaged.

- 4 Connect the black power cable to the black power in Flitecell.

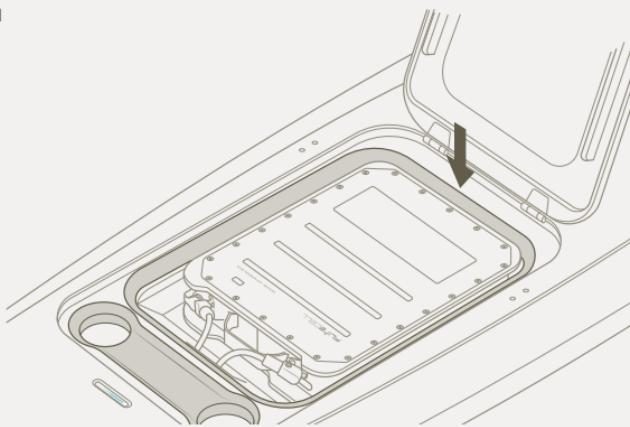
**Flitecell is now connected.**



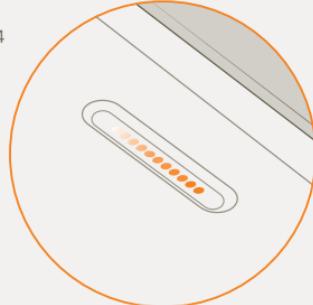
## Turning on Fliteboard

- 1 Make certain nothing is caught in the seal. Carefully close the lid.
- 2 Twist and lock the two lid latches.
- 3 A few seconds after the lid is shut in position, you will hear a '**beep beep beep**' which signifies that the Flitecell and board have automatically turned on.
- 4 If the external board light is not active, open the lid and ensure the power cables are properly connected, and there are lights on the Flitecell indicating it is switched on.
- 5 Flitecell will automatically turn off 10 seconds after the lid is opened.

1



4



SEE PAGE 36 FOR PAIRING  
FLITE CONTROLLER

THE SEAL IS A CRITICAL COMPONENT. IF DAMAGED CONTACT YOUR DEALER FOR A REPLACEMENT PART. NEVER RIDE THE BOARD WITH A DAMAGED SEAL.

THE FLITECELL AND CABLES ARE WATER RESISTANT; HOWEVER, ALWAYS KEEP FLITECELL, CABLES AND BOARD CAVITY DRY. WATER, ESPECIALLY SALT WATER, CAN ACCELERATE AGING AND CORROSION. IF YOUR BOARD LEAKS, CHECK SEALS, AND CLEAN COMPONENTS CAREFULLY.

## Download Flite App and update

The Flite App is available to download in the Apple App Store\*. We recommend using Flite App to ensure your board and controller always have the latest software to deliver the best performance.

\*An Android version is in development and will be available from the Play store when ready. If you do not have an iPhone you may get your software updates at one of our Service Centres around the world visit [fliteboard.com/locations](http://fliteboard.com/locations)



Download Flite APP  
from App Store  
iOS only, V10.7 or higher

[apps.apple.com/  
au/app/fliteboard/  
id1499441319](http://apps.apple.com/au/app/fliteboard/id1499441319)

Watch our Flite APP  
update video

[tinyurl.com/yb3vudw8](http://tinyurl.com/yb3vudw8)

## Performing first update

BEFORE YOU USE FLITE APP FOR THE FIRST TIME MAKE SURE THE PHONE, FLITECELL, FLITE CONTROLLER HAVE AT LEAST 20% CHARGE. KEEP THE PHONE CLOSE AND IN LINE OF SIGHT WITH A STRONG WIFI/CELLULAR NETWORK. DON'T USE THE PHONE FOR ANYTHING ELSE SUCH AS CALLS, TEXTS, OR OTHER APPS.

FLITEBOARD IS READY FOR ITS FIRST UPDATE BY ENSURING THAT IT IS ASSEMBLED AND POWERED ON.

MAKE SURE THE FLITEBOARD LID REMAINS CLOSED DURING THE UPDATE PROCESS.

ENSURE FLITE CONTROLLER IS TURNED OFF AS THE APP CAN ONLY CONNECT TO ONE DEVICE AT A TIME.

Open the app and agree to the onscreen prompts. You'll be taken to the first update process one step at a time. Follow the instructions carefully to update 1. Fliteboard, 2. eFoil and then finally follow instructions to turn on and update the 3. Flite Controller.

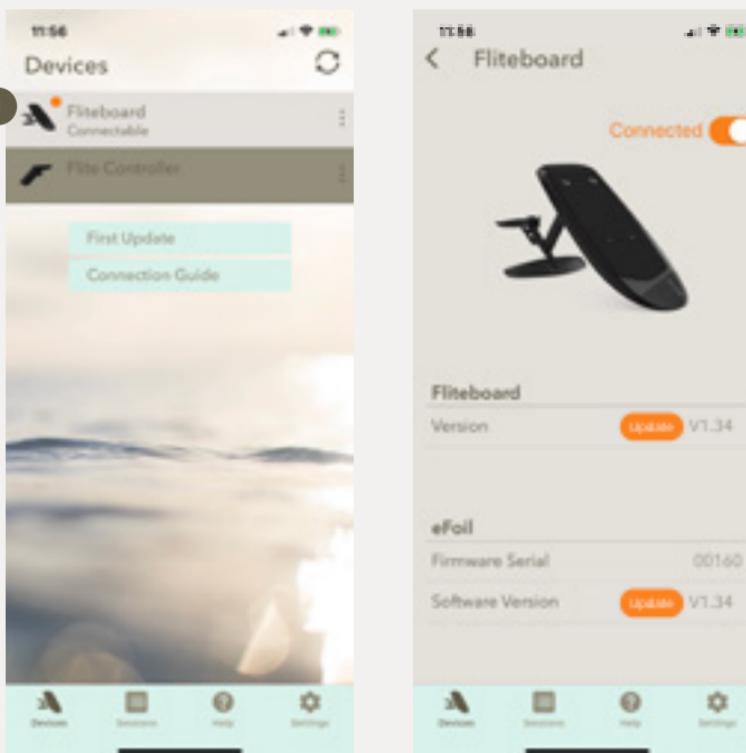
The Fliteboard update typically takes 2 - 3 minutes, eFoil update 2 - 3 minutes and Flite Controller 2 minutes.

You may need to wait 10 - 20 seconds for Fliteboard to restart between Fliteboard and eFoil updates. The Fliteboard LED may switch between flashing blue, solid purple or green.

## Connecting Flite App to Fliteboard and the eFoil

- 1 Turn off Flite Controller.
- 2 Ensure Fliteboard has power and the lid is closed.
- 3 Select '**Fliteboard**' from the '**Devices**' menu. When connected, the board Flitebox LED will turn purple. When performing some updates it will display green.
- 4 You will now be able to see software version of both the Fliteboard and the eFoil.
- 5 Once connected you can perform ongoing updates and now sync session rides under '**Sessions**'

YOU WILL ONLY NEED TO USE FIRST UPDATE PROCESS ONCE. WHEN NEW SOFTWARE UPDATES ARE AVAILABLE, YOU'LL SEE AN ORANGE UPDATE ICON. WHEN UPDATING, DON'T USE THE PHONE FOR ANYTHING ELSE SUCH AS CALLS, TEXTS OR OTHER APPS.



### Devices

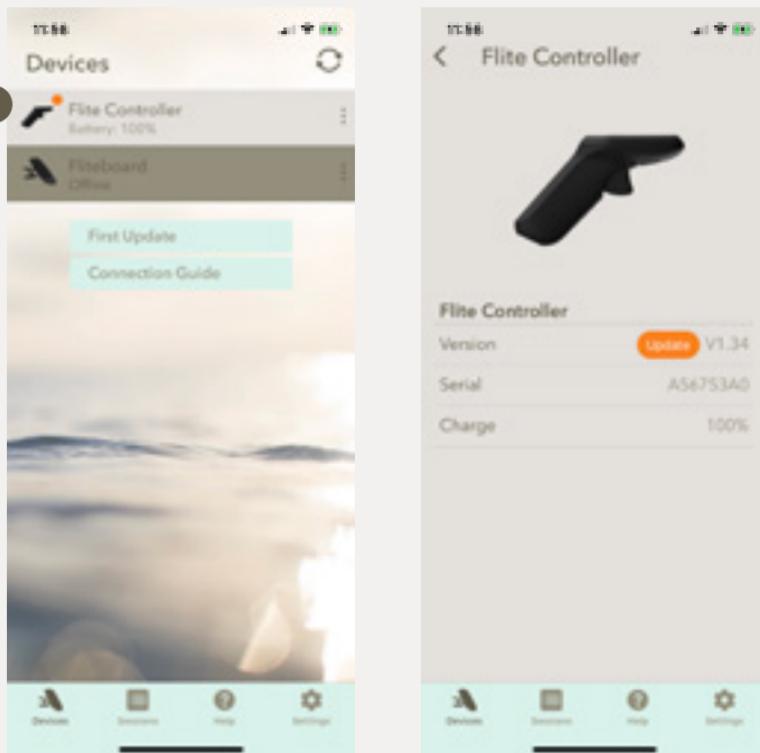
- 1 Fliteboard is turned on and connectable. New updates are denoted by the orange alert.

### Devices / Fliteboard

Fliteboard is connected. Updates are both required and able to be performed for both Fliteboard and eFoil.

## Connecting Flite App to Flite Controller

- 1 Turn off Fliteboard.
- 2 Ensure Flite Controller has power and within range to the phone.
- 3 Select '**Flite Controller**' from the '**Devices**' list. When selected and connected, the current state of charge will be displayed.
- 4 You will now be able to see software version of the Flite Controller and perform any updates here.



### Devices

- 1 Flite Controller is turned on (allowing it to be discoverable in the devices list). Updates are denoted by the orange alert.

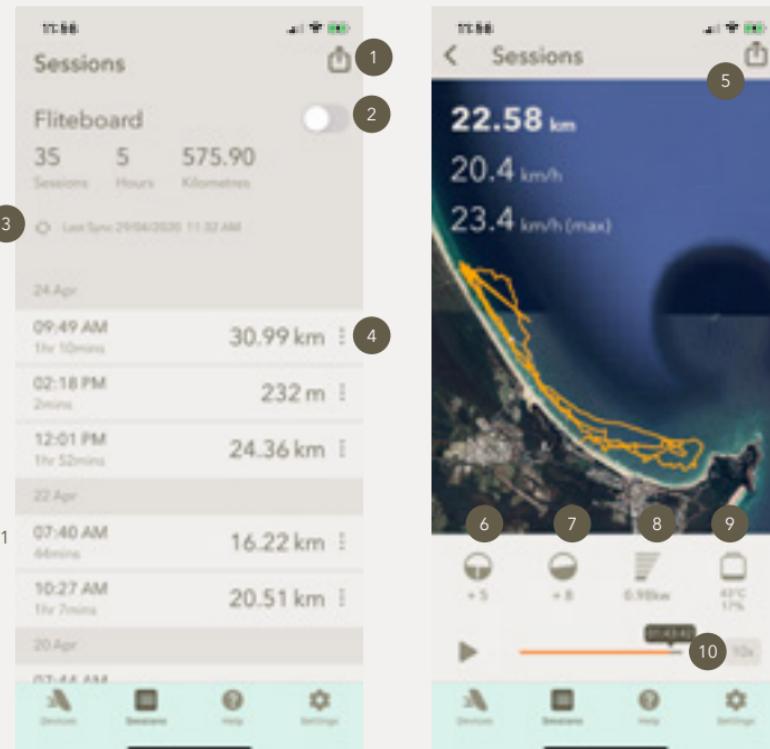
### Devices / Flite Controller

Flite Controller is connected. Update by pressing orange 'update' icon.

**IMPORTANT: ALWAYS UPDATE THE FLITEBOARD FIRST AND THEN EFOIL**

## Capturing sessions

- Once software is up-to-date, Fliteboard will automatically capture sessions to its onboard computer.
- Open Flite App. Click '**Sessions**' and then double tap '**Sync**' to view and download any new sessions.
- Clicking the share icon (top right) from the '**Sessions**' screen will share diagnostic data with Fliteboard support via email.
- Clicking a ride in the Sessions list, will then take you to ride detail screen. Here you can play back your ride in various speeds, over an aerial map.



### Sessions

- Share diagnostics with support
- Connect / disconnect (when powered and in range)
- Sync sessions (when Fliteboard is connected)
- Session ride (swipe left to rename)

### Sessions / Ride detail

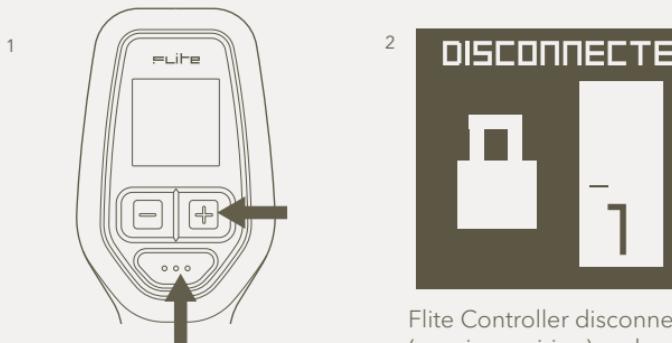
- Share ride
- Ride roll angle
- Ride pitch angle
- Power consumption
- Flitecell temperature displayed in Celsius. Flitecell charge remaining
- Adjust ride playback speed

## Flite Controller overview



### Turn on and connect Flite Controller

- 1 Turn on Flite Controller by holding down the + button AND Mode (bottom) button together for 3 seconds.
- 2 After a 3 second press of both buttons, the Flite logo will appear with the software version number, and the Controller will move to the home screen with lock icon.

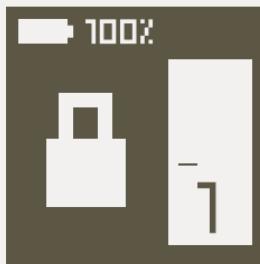


Flite Controller disconnected (requires pairing) and motor locked (requires arming). Power Level 1 (Gear 1).

Hold + button for 7 seconds to put into pairing mode.

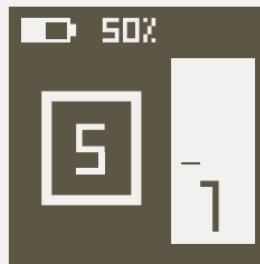
IF THE REAR LIGHT HAS A BLUE SOLID LIGHT (NOT BLINKING) YOUR FLITE CONTROLLER IS CONNECTED. IF THE FLITEBOX LIGHT IS FLASHING YOUR CONTROLLER AND FLITEBOARD NEED TO BE PAIRED.

## Flite Controller screen guide



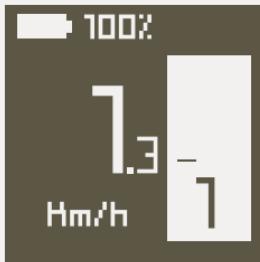
### Motor locked

Ready to arm.  
Flitecell 100% charged.  
Power Level set to level 1.



### Motor armed

Motor unlocked with 5 seconds to squeeze the throttle trigger.  
Flitecell charge 50%



### Current Speed / Power

Speed 1.3km/h  
Power level 1



### Distance

Traveled 6.4kms  
Remaining 24.7kms  
Current Speed 23.6km/h



### Time

Elapsed 60mins  
Remaining 12mins  
Current speed 23.6km/h



### Speed

Maximum 35.1km/h  
Average 13.2km/h  
Current speed 23.6km/h



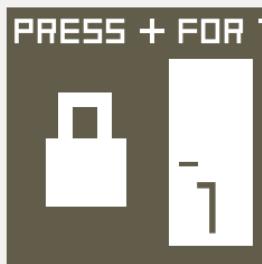
### Disconnected (scrolling)

Flite Controller is not connected or under water. Hold plus for 7 seconds until Flite Controller displays LOOKING FOR NEW PAIR.



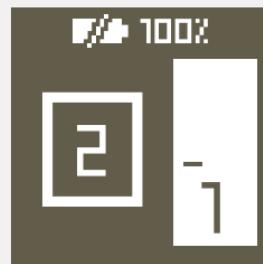
### Looking for new pair (scrolling)

Flite Controller is looking for a new pair..



### Pairing required

Flite Controller is not paired. Hold plus for 7 seconds until Flite Controller displays LOOKING FOR NEW PAIR.



### Battery not paired

Repeat pairing process (see page 36)



### Diagnostics

Flitecell kilowatts 1.5  
 Prop RPM x 1000 = 2,100  
 ESC Temp 40 Degrees  
 Flitecell Temp 40 Degrees  
 Flitecell Charge 100%  
 Current Speed 23.6km/h



### Efficiency

60 Wh/km  
 Flitecell charge 100%  
 Current speed 23.6km/h

## Flite Controller screen guide



### Charge remaining

Flitecell 98%  
Flite Controller 66%



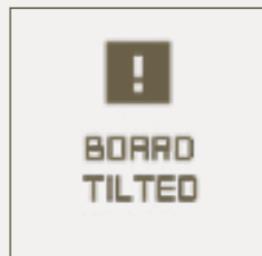
### Flite Controller charging

Flite Controller currently  
at 10% state of charge.



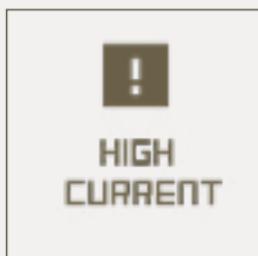
### 50% Flitecell warning

Flitecell has 50% (or less)  
remaining charge.



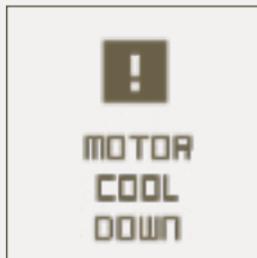
### Fliteboard tilted

Fliteboard is disabled  
due to the tilt angle.



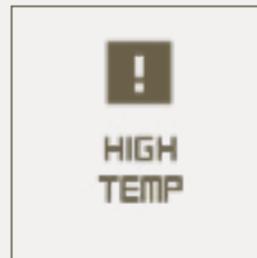
### High Current

Motor Cool Down mode  
will be activated if power  
isn't reduced.



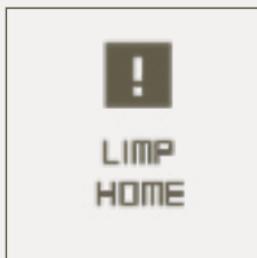
#### **Motor Cool Down**

The motor needs to cool down. Fliteboard is limited to low gears for 1 minute to allow motor to cool.



#### **High Temp**

Flitecell is too hot. Ride using low power to allow Flitecell to cool, otherwise Flitecell may shut down.



#### **Flitecell charge critical**

Flitecell charge very low, immediately return to shore. Fliteboard is limited to low gears only to conserve charge.



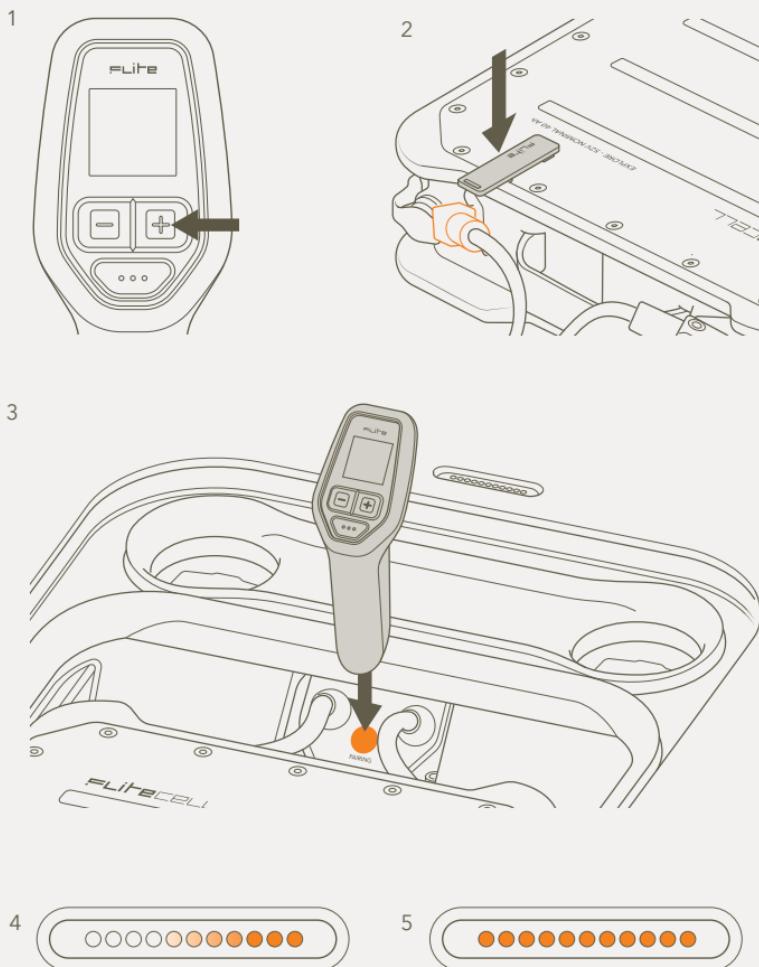
#### **Flite Controller low charge**

Flite Controller requires charge. Ensure Flite Controller is charged above 50% each ride.

## Pairing Flite Controller & Flitecell with Flitebox

- 1 Hold the + button for 7 seconds until the words '**PRESS MODE TO COMMENCE PAIRING**' appear. Then press mode button to confirm. The words '**LOOKING FOR NEW PAIR**' will appear.
- 2 Open the Fliteboard lid and place the Flitecell clip on the Flitecell to keep it powered on.
- 3 Place the base of the Flite controller on the pairing target on the Flitebox (between the Flitecell cables).
- 4 Whilst searching for a new pair, the LED lights at the rear of the board will display as Orange chasing (scrolling over and over).
- 5 Once paired successfully, the LEDs will change to a solid light blue colour.
- 6 Remove the Flitecell clip and shut the Fliteboard lid within **10 seconds** (before the Flitecell switches off and powers off the system)

DO NOT HOLD THE FLITE CONTROLLER IN THE PAIRING POSITION FOR MORE THAN 30 SECONDS. HOLDING THE FLITE CONTROLLER IN THIS POSITION WILL PUT THE BOARD INTO SOFTWARE UPDATE MODE.





Light blue solid

Ready to ride

---



Red flashing

Alert (high temp, tilt, overcurrent, system error)

---



Blue flashing

Armed

---



Blue chasing

Motor running

---



Orange flashing

Disconnected Flitecell / Controller

---



Orange chasing

Searching for new pair Flitecell / Controller

---



Purple solid

Flite App connected

---



Purple chasing

Flite App data transfer

---

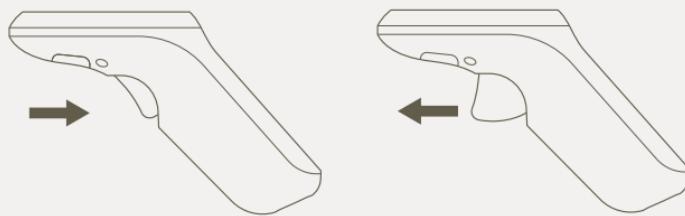
## Arming the motor

Fliteboard uses a safety lock to guarantee that riders cannot accidentally spin the propeller by bumping the throttle trigger unintentionally. Riders must arm (unlock) the motor to Fliteboard.

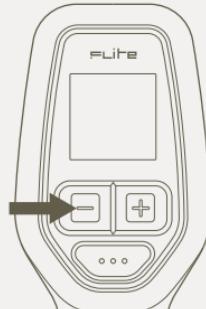
- 1 To arm the motor, pull the throttle all the way in on the Flite Controller and then release it completely.
- 2 Press and then release the minus button.
- 3 Pull the throttle trigger within 5 second countdown window to activate the propeller. Always verify the propeller is clear and in a safe location before activating the motor

**IMPORTANT: NEVER RUN THE MOTOR OUT OF WATER FOR MORE THAN 3 SECONDS, AS DOING SO CAN OVERHEAT AND DAMAGE THE PROPELLER SHAFT AND SEALS.**

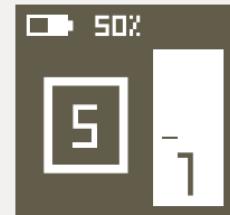
1



2



3



Countdown window appears pull the throttle trigger completely to activate propeller

## Get Fliteboarding

Fliteboard recommends that first time riders have at least one lesson with a certified Fliteschool. To find your nearest Fliteschool visit [fliteboard.com/locations](http://fliteboard.com/locations)

### Select a suitable riding location

A location with deep enough water is essential. The Wings and eFoil should never make contact with anything below the surface, including a sand bottom. Be aware of tide times, as well as submerged items such as branches, coral, boat chains and fishing lines. If you are unsure about the local area ask someone who knows the waterway for advice. Be aware the board can be submerged with rider weight, reducing clearance required.

Choose a location away from swimmers and other water users and ensure local laws allow motorised craft to be used in the area.

Learning to Fliteboard in very smooth water without waves or strong currents is SIGNIFICANTLY easier and safer than learning in choppy water. Your first Fliteboard experience will be challenging (but rewarding) so choose a location and weather conditions that allow for the easiest possible learning experience.

Ride time and range are dependent upon:

- Rider weight
- Average speed
- Wing choice
- Water / wind conditions

ENSURING SAFE WATER DEPTH IS EXTREMELY IMPORTANT BEFORE RIDING. SELECT A LOCATION THAT IS HAS A MINIMUM DEPTH OF AT LEAST 1.5 METRES.

ALWAYS MONITOR FLITECELL LEVELS WHILE RIDING AND TAKE CARE NOT TO DEPLETATE THE FLITECELL BEFORE RETURNING TO YOUR POINT OF ORIGIN.

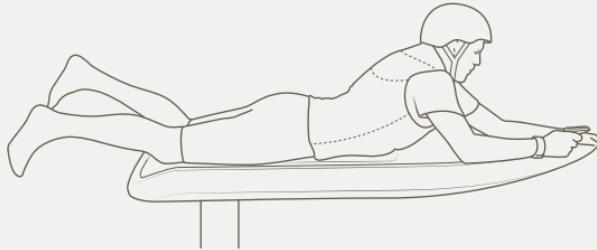
NEVER RIDE FLITEBOARD FURTHER FROM SHORE THAN YOU ARE PREPARED TO SWIM BACK.

## Engage the Motor and get moving

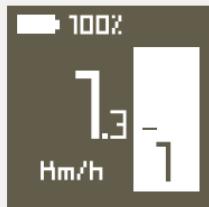
- 1 Climb onto the board, taking care not to kick the hydrofoil wings or mast.
- 2 Lie on the board, positioned so that you can touch the front of the Fliteboard with your hand (or the front handle if using the Fliteboard AIR).
- 3 Verify Flite Controller is set so you see power level '1' displayed on the lock screen. This is your starting power setting once unlocked (it can be changed later if you are an advanced rider).
- 4 Arm the motor and squeeze the throttle trigger. The board should start to move. You should be on power level 1 (a low power setting).
- 5 Practice riding lying on the board and changing speed using the buttons between level 1 and level 3. Be sure to keep enough weight on the front of the board to keep the nose of the board down and parallel to the water.



2



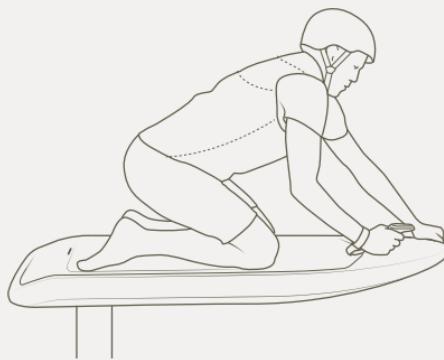
3



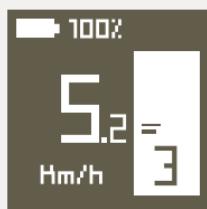
**PRO TIP** Fliteboard has been designed with a cruise control system in mind. Squeezing the trigger all the way in makes it easier to use your thumb to change the speed (from level 1 to 20). As you accelerate you may need to shuffle forward to keep the nose down.

## Getting to your knees

- Once comfortable lying on the board, arming the motor, changing speed and riding the board lying down, it's time to get to your knees.
- Depending on your weight, board and conditions, you may wish to move to your knees on power level 3, 4, 5 or 6. You want to be traveling fast enough that you won't nose dive or sink, but not so fast that you are bouncing over chop, planing quickly or starting to foil. A speed of 6 - 8 kph on the GPS display on the Flite Controller is a good speed for getting to your knees.
- Place both hands on the board, smoothly push your body up and slide both knees under you onto the board. Your knees should be positioned just in front of the lid hinges. Be careful not to put your knees on the hinges themselves.
- Keep your body weight forward to keep the nose down and the foil disengaged.



2



**PRO TIP** Be careful not to let go of the throttle trigger as you move to your knees. You should practice maintaining a constant speed when changing body positions on the board.

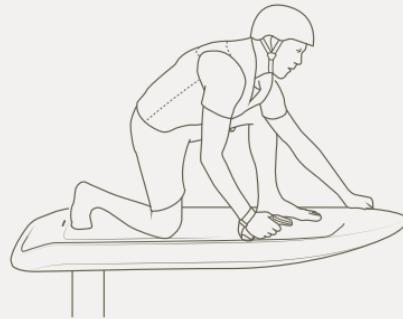
Once you feel ready, you can practice starting to foil on your knees by carefully moving your head and upper body back. As soon as you hear the noise change from the board leaving the water, shift weight forward again to level off the foil or to touch down again.

## Standing up

Check that you have clear flat water in front of you with no obstacles or other vessels.

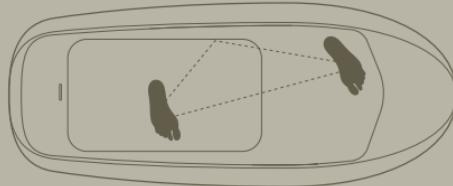
Select a speed where the board feels stable. The ideal speed depends on your weight and board choice, but between 8kph and 12kph is a good speed to stand up.

- 1 While being careful not to let go of the throttle trigger (so you maintain a constant speed) place your front foot in the space in front of your knees. Your toes should be near the front of the foot pad and slightly to one side. (Refer to the diagram in the below PRO TIP)



- 2 Take a moment to get your balance. Then, stand up, with as much weight as possible pushing through your front foot. This should feel like standing from a lunge position. Keeping your weight on your front foot keeps the board and nose down, which in turn keeps the foil in the water. Standing up with weight on your rear foot can result in the foil engaging and then an unintended crash.
- 3 Once standing keep your weight forward over your front knee. Your chest and nose should be lined up with, or in front of your front knee.

**PRO TIP** The ideal body position is with your body twisted forward, with front foot just behind the front of the deck grip, and rear foot 10cm in front of the latches, with both feet hip width apart. This stance is similar to the 'Warrior One' Yoga stance. This riding stance keeps your weight forward allowing good control over the pitching of the board forward, aft, left and right.



- 4 Once standing, practice slowly adding speed, but always while pushing down hard through your front leg. The foil, motor and your own bow wave will want to push the nose up. Push down hard and practice accelerating to planing speed, with the board flat on the water. Taking your weight off your front foot will engage the foil and likely result in a crash until you have learned to balance the foil.

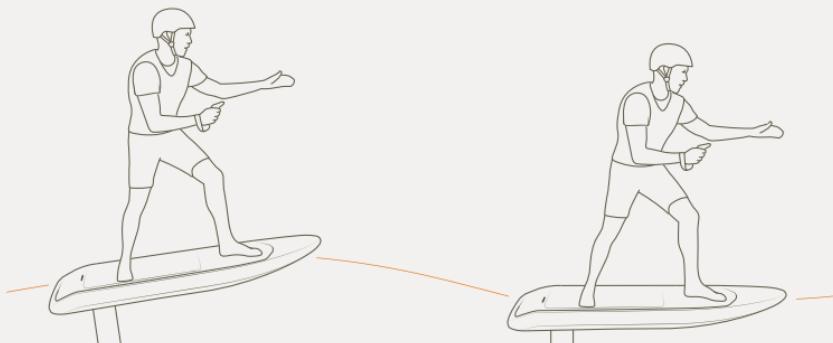
## Foiling for the first time

Like learning to ride a bike for the first time, learning to foil is challenging as it requires your brain to learn a new way to balance. There is also potential for you to fall on the wings if not careful. Wear appropriate safety equipment including a Helmet and PFD, take your time and follow these steps.

Once comfortable standing at medium speeds, practice going faster with as much weight as possible over your front foot. Unlike surfing, you control the board more with your front foot. Weight on your front foot with your body leaning forward is safe - as it keeps the foil in the water. Whenever you become uncomfortable, lean forward toward the nose of the board. This will ensure the board is on the water and stable.

- 1 Practice standing in the riders stance and gradually increase your speed. The initial goal is to be able to ride at safe foiling speed (so you are in control and still within local laws) with the board still on the water. You do this by keeping your weight forward.
- 2 While planing at the correct speed with your feet in the correct position and the board LEVEL on the water; very gradually start to transfer weight backwards. You will feel slightly less pressure on your front foot and more pressure on the back foot. Do this carefully, with your weight over the centre line of the board and your core engaged.
- 3 As soon as you feel the board leave the water (you will hear the noise change) lean forward again and touch down. The goal is to foil as LOW as possible for very short sections. Foiling for 5 meters at a time and then touching down again is all you need to do.

Practice this and your brain will work out the rest. Before long you will be foiling for longer periods and then continuously.



Don't go too high

More pressure on front foot

**PRO TIP** The safest and easiest way to learn to foil is to foil low and practice repeated touch and go's. As you foil higher you expose yourself to the risk of a crash where you could hit the wings. You may lose your confidence and learning will take longer.

## Foiling pro tips

If you shift your weight too far to one side, it is not possible to recover. Jump away from the board in the direction you are falling. This takes you SAFELY away from the foil.

Keep your weight forward and press down through your front knee. Confirm your feet are in the correct position.

Don't vary your speed too quickly, it may unsettle the foil and make balance more difficult. Like an aeroplane, the foil wings need a constant speed for smooth flying.

Don't try to foil going too slow. The wings will stall and you may crash.

Don't try to turn on the foil until you are very comfortable in a straight line.

Keep the board flat and level.

## Foiling through turns

Turning while foiling requires careful balance on all axes.

Start by doing very wide turns.

As you gain experience you can try tighter turns.

Keep speed constant.

In tight turns you will need to apply more force to your back leg to maintain foil altitude (like an aeroplane adding elevator through a turn).

All of this might sound complex, but if you keep your weight forward, practice in flat water, maintain constant speed, and take learning step by step, you will likely be foiling in no time.

## Maintenance and Storage

READ THROUGH THE ENTIRE STORAGE AND MAINTENANCE INSTRUCTIONS BEFORE STORING YOUR BOARD.

- 1 It is essential that your Fliteboard be serviced as per the 'Maintenance schedule' at the end of this manual to retain its high level of performance, safety and reliability, including warranty, as mentioned previous.
- 2 The service intervals are in both hrs or months, whichever comes first.
- 3 The service schedule and intervals assume you will use your Fliteboard in accordance with our guidelines.

## Periodic Checks

- 1 Ensure that you view our 'Care and Maintenance video' <https://www.youtube.com/watch?v=zCf26ILCV2g> before first using your Fliteboard.
- 2 Ensure that after each session, you visually inspect all elements of Fliteboard including board, wings, mast, Flitecell and Flite Controller for any damage or water ingress.
- 3 Ensure that you perform the 6 Month Flitecell Checklist located on the Support Page on the website.
- 4 Ensure all connections are clean, free from corrosion and damage after each use.

## Maintenance Schedule Intervals

The hour/months intervals shown in the maintenance schedule section of the manual are intended as a guide. If you are operate a Fliteschool then supplementary servicing may be necessary.

Please contact [support@fliteboard.com](mailto:support@fliteboard.com) for any queries or questions.

## Fliteboard, PRO, ULTRA

### Post ride

Open the board lid slowly, take care not to let it fall on the nose of the board. (If the lid is opened too far it may fall and damage the nose of the board).

After each ride, check to see if any water has leaked into the Flitecell cavity.

If so, check the cause of the leak which may include: sand present on the sealing surface; a damaged or dislocated seal; damaged hinges or latches; or something obstructing the lid when closed.

Once the Flitecell has been removed ensure that the complete board, including Flitecell compartment, seals, lid and eFoil are washed thoroughly in fresh water.

Let the board air dry and then wipe down with a clean, dry absorbent cloth. Ensure that Contact Cleaner is sprayed onto all connections.

### Regular maintenance

Apply lubricant / WD40 to the latches and hinges every few weeks. Keep the lubricant away from the deck grip to avoid a slippery board.

Check the board regularly for damage or cracks. If damage is present have it repaired by a professional surfboard or sailboard repairer who is experienced with epoxy repairs.

Inspect the orange, mast flange seal regularly for any damage and ensure its is kept clean and free of any sand, grit or dirt.

During daily use ensure that the eFoil is removed from the board and wings from the eFoil at least every three days. Ensure Contact Cleaner is applied to all cables and Tef-Gel is reapplied to all screws.

### Storage

Ensure that all sand, grit, dirt, and salt residue has been washed off with fresh water, and sufficiently dried. Ensure that the Flitecell has been wiped down with a clean, dry absorbent cloth while switched off.

Ensure the board and deck grip are dry before storage.

Apply Contact Cleaner to all connectors to reduce the risk of corrosion.

Take extra care not to scratch the carbon board bottom and wings.

Place your Fliteboard in the provided bag, then store in a clean and dry environment.

Keep the board and bag out of the sun.

## Fliteboard AIR

### Post ride

Wash the inflatable bladder with warm soapy water and dry before storage.

The inflatable bladder can remain inflated, or be deflated and stored on or off the carbon insert to suit your storage preference.

### Regular maintenance

The inflatable bladder can be repaired using the supplied repair kit. 15 - 16 PSI is the recommended inflation pressure.

## eFoil

### Post ride

Disconnect the Flitecell power cables.

Rinse thoroughly with clean fresh water after every use.

Rinse the inside of the mast (through the notch in the rear of the flange) with fresh water.

Rinse around the mast flange to wash salt away from the board connection area (if keeping the board and foil attached).

### Regular maintenance

Disassemble the eFoil from the board.

Remove the wing, fuselage cover and tail, and clean thoroughly with fresh soapy water to remove any built-up salt or sand.

### Storage

Always store the eFoil in a clean, dry environment.

## Flite Controller

### Post ride

Rinse the Flite Controller in fresh water to clean away salt and debris. Ensure a steady stream of fresh water is applied directly into the trigger housing. While doing so press and de-press the trigger numerous times to loosen any sand, grit, debris that may affect its performance.

Peel out the rubber cover on the underside and clean this with fresh water. Ensure this area is dry before replacing the cover.

### Regular maintenance

Pre and post season, the 3 torque screws on the underside of the controller can be undone to release the trigger. This will allow you thoroughly clean and inspect both the trigger, spring and magnet.

### Storage

Store in a cool dry place, out of the sun.

## Flitecell

### Post ride

Wipe Flitecell down with a wet cloth (freshwater), and clean Flitecell contacts and data connector with Contact Cleaner.

Flitecell is water resistant but it should remain dry where possible. DO NOT submerge or shower.

Avoid placing Flitecell on the sand, which can make its way into the Flitecell cavity and scratch surfaces.

DO NOT charge the Flitecell immediately after use. The Flitecell temperature may be too high. Allow 30mins between riding and charging to allow for cooling.

DO NOT clean the Flitecell or charger with denatured alcohol or other flammable solvents.

IF THE BOARD HAS LEAKED AND / OR THE FLITECELL HAS BEEN SUBMERGED IN WATER, INSPECT FOR WATER INGRESS USING THE SIGHT GLASS LOCATED ON THE SIDE OF THE FLITECELL. STAND THE FLITECELL UP ON ITS BOTTOM END FOR ONE MINUTE AND THEN PLACE THE FLITECELL ON ITS SIDE WITH THE SIGHT GLASS FACING DOWN FOR ONE MINUTE. INSIDE THE SIGHTGLASS IS A COLOUR CHANGING LABEL WHICH WILL TURN RED IF WATER IS PRESENT. INSPECT THE SIGHT GLASS AND CONFIRM THAT WATER IS NOT PRESENT BEFORE CHARGING AND USING A FLITECELL THAT HAS BEEN IMMERSED IN WATER.

IF A FLITECELL HAS BEEN DROPPED OR DAMAGED, CONTACT FLITEBOARD IMMEDIATELY AND DO NOT USE THE FLITECELL.

### Regular maintenance

Examine the charger regularly for damage to the cord, plug, enclosure or other parts.

### Storage

Keep Flitecell stored out of the reach of children and pets.

DO NOT store the Flitecell near heat sources such as a furnace or heater. DO NOT leave the Flitecell inside of a vehicle on hot days. The ideal storage temperature is 22°C - 28°C.

Do NOT store the Flitecell whilst charging. Disconnect the charger when not in use.

DO NOT store the Flitecell fully charged or discharged for a longer period of time.

For long term storage a charge state of 75% (2 LEDs on) is optimal.

We recommend that you discharge the Flitecell during your final session of the season and charge back up to the above state.

## **Shipping and transport**

**Flitecell (batteries) are considered a dangerous good and must not be shipped without working with a dangerous goods shipping specialist.**

Shipping batteries marked as normal goods without informing the shipping party is illegal and dangerous. The Material Safety Data Sheet (MSDS) is required for shipping the batteries.

Issue	Troubleshooting guide
<b>Fliteboard starts to slow or 'limp'</b>	This is a sign your Flitecell is about to run down or over heat. Move out of the water and recharge your Flitecell. Refer to the Flitecell charging instructions.
<b>Fliteboard turns off while riding</b>	Move out of the water to a safe, dry, clean area. Check the LED on Flitecell to confirm if it still has charge. If it has charge, disconnect and reconnect the Flitecell to see if you can establish a connection. Inspect the Flitecell for water or damage. There should be no water inside the Flitecell housing.
<b>Flite Controller disconnects</b>	Re-arm the Flite Controller. See arming instructions.
<b>Flite Controller unpairs</b>	Re-pair the Flite Controller. See pairing instructions.
<b>Flitecell charger won't connect</b>	Disconnect and reconnect. Contact Fliteboard Customer Support.
<b>Flite Controller won't turn on</b>	Ensure Flite Controller is fully charged. See Flite Controller charging instructions.
<b>Flite Controller shows a battery warning</b>	Slow down or decrease power consumption to cool the Flitecell down. The Flite Controller will warn you when the Flitecell temperature reaches 55°C and again at 60°C. At 65°C the Flitecell will automatically start to shut down to preserve itself.
<b>Water in the Fliteboard cavity</b>	Remove the board from the water. Remove the Flitecell. Dry the board completely. Check the Flitecell for leaks. If the Flitecell has taken in water refer to the section below. Once dried and re-assembled, take care that the Fliteboard Cavity seal is properly compressed when closing the Fliteboard lid.
<b>Water in Flitecell</b>	Flitecell has an indicator for water damage. If water has penetrated the casing, regularly check the circular water indicator on the side of your Flitecell. If the sticker has turned red, this means water has penetrated the housing.  IF WATER HAS PENETRATED THE FLITECELL, PLEASE SET FLITECELL ASIDE IN A COOL DRY PLACE. DO NOT ATTEMPT TO USE A FLITECELL THAT HAS BEEN WATERLOGGED. CONTACT FLITEBOARD IMMEDIATELY.
<b>Unable to pair Flite Controller</b>	Please ensure no other controllers or boards are switched on. Try again as per pairing instructions.
<b>Unable to pair Flite Controllers to multiple boards</b>	Do not attempt to pair multiple Flite Controllers to multiple Fliteboards simultaneously. Always pair one at a time.
<b>Reduced runtime</b>	The battery management system (BMS) balances and optimises the battery during each charge cycle. Leave the charging magnet on Flitecell for 24 - 48 hours after between charges to allow the BMS to optimise Flitecell.

## Technical Specifications

<b>Speed</b>	Up to 45 kph / 28 mph
<b>Rated load range</b>	100kg / 220 lbs
<b>Run time 85kg rider</b>	Up to 1 hr 30 min (Flitecell Explore) Using a large wing at slow foiling speed, it's possible to ride for over 2 hours.

Board details	KG	LBS	MEASUREMENTS	L
Fliteboard ULTRA	8.8	19	1310 L x 585 W x 110MM D (4'2" x 23" x 4 3/8")	54
Fliteboard PRO	9.1	20	1550 L x 600 W x 110MM D (5'0" x 24" x 4 3/8")	67
Fliteboard	11.8	26	1735 L x 650 W x 125MM D (5'8" x 26" x 5")	100
Fliteboard AIR	11.8	26	1850 L x 770 W x 135MM D (6'0" x 30" x 5 3/8")	150

## Fliteboard, PRO and ULTRA

<b>Materials</b>	Carbon Fibre, Innegra, aircraft grade aluminium, high quality wood laminates and composites.
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## Fliteboard AIR materials

<b>Type</b>	Inflatable
<b>Materials</b>	Grey Selytech Composite Super Light Drop Stitch Fabric / PVC / EVA
<b>Pressure</b>	15 - 16 PSI

## Travel case

Fliteboard ULTRA	1390 x 670 x 170mm (4'5" x 2'3" x 6' 3/8")
Fliteboard PRO	1630 x 700 x 170mm (5'3" x 2'3" x 6' 3/8")
Fliteboard	1800 x 760 x 170mm (6' x 2'5" x 6' 3/8")
Fliteboard AIR	1220 x 600 x 300mm (7'2" x 2' x 12")
eFoil case	1100 x 640 x 260mm (3'8" x 2'2" x 10")
Flitecell travel bag	450 x 370 x 90mm (5'3" x 2'3" x 3' 5/8")

## eFoil system

<b>Input power</b>	5,000 Watts
<b>Max output power at shaft</b>	3,700 Watts
<b>Nominal voltage</b>	52v
<b>Maximum current</b>	100 AMPS
<b>Motor type</b>	Brushless
<b>Motor speed</b>	4500 rpm propeller peak
<b>Protections</b>	Overheating, overcurrent
<b>Propeller diameter</b>	142mm
<b>Propeller guard</b>	155mm

## Flite Controller

<b>Communication Type</b>	Bluetooth
<b>Speed Control</b>	20 step display
<b>Runtime</b>	Average charge 24 hrs / Standby 200 hrs
<b>Rated cycles</b>	1000 charge cycles
<b>Protection grade</b>	IP67

## Premium 25A Charger

<b>Charging current</b>	25 AMP
<b>Charge time</b>	1hr 45min Flitecell Explore
	1hr 15min Flitecell Sport

## Flitecell Sport

<b>Size</b>	315mm x 305mm x 80mm (15" x 12" x 13")
<b>Capacity</b>	30Ah / 1.5KWh
<b>Weight</b>	10.9kg (24 lbs)
<b>Protection</b>	IP67
<b>Max charge voltage</b>	58.8v
<b>Min voltage</b>	42v
<b>Nominal voltage</b>	52v
<b>Rated continuous discharge current</b>	100a
<b>Rated charge current</b>	25a
<b>Rated cycles &gt;80% capacity</b>	400 Cycles
<b>Temperature discharge limits</b>	0 - 70 Degrees C
<b>Temperature charge limits</b>	0 - 50 Degrees C
<b>Communication</b>	Bluetooth Protocol 2.0b
<b>BMS critical functions</b>	Balancing, Over-temperature (Charge/Discharge) Over-current, short-circuit protection, reverse polarity and over & under voltage
<b>Other safety</b>	3 levels of fusing adds redundancy if BMS failure occurs. Conformal / Resin coatings used on PCB's

## Flitecell Explore

<b>Size</b>	390mm x 305mm x 80mm (15" x 12" x 13")
<b>Capacity</b>	40Ah / 2.1KWh
<b>Weight</b>	13.9kg (31 lbs)
<b>Protection</b>	IP67
<b>Max charge voltage</b>	58.8v
<b>Min voltage</b>	42v
<b>Nominal voltage</b>	52v
<b>Rated continuous discharge current</b>	100a
<b>Rated charge current</b>	25a
<b>Rated cycles &gt;80% capacity</b>	400 Cycles
<b>Temperature discharge limits</b>	0 - 70 Degrees C
<b>Temperature charge limits</b>	0 - 50 Degrees C
<b>Communication</b>	Bluetooth Protocol 2.0b
<b>BMS critical functions</b>	Balancing, Over-temperature (Charge / Discharge) Over-current, short-circuit protection, reverse polarity and over & under voltage
<b>Other safety</b>	3 levels of fusing adds redundancy if BMS failure occurs. Conformal /resin coatings used on PCB's

## Warranty Registration / Details of Purchase

**Customer Name**

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**Business Name  
(if applicable)**

---

**Country & State**

---

**Purchased from**

---

**Date of Purchase**

---

**Board Type & serial number**

---

**eFoil Type**

75cm

60cm

**eFoil serial number**

---

**Flitecell Type**

Explore

Sport

**Flitecell serial number(s)**

---

**Flite Controller serial number(s)**

---

**Flitecell Charger serial number**

---

## Maintenance Schedule

### FIRST 6 MONTH SERVICE

#### Inspected

Mast

Fuselage

Flitebox

Cables

Propeller Duct

Propeller

#### Replaced

Seals

Oil

Flitebox Gore vent

Cables

Propeller Duct

Propeller

Anode

eFoil Hours of use

Date

Name of Technician

Signature of Technician

Authorised Repair Centre

**Maintenance Schedule****100HR/12 MONTH SERVICE**

WHICHEVER COMES FIRST

**Inspected**

- Mast
- Fuselage
- Flitebox
- Cables
- Propeller Duct
- Propeller

**Replaced**

- Seals
- Oil
- Flitebox Gore vent
- Cables
- Propeller Duct
- Propeller
- Anode

**eFoil Hours of use****Date****Name of Technician****Signature of Technician****Authorised Repair Centre**

**Maintenance Schedule****200HR/24 MONTH SERVICE**

WHICHEVER COMES FIRST

**Inspected**

<input type="checkbox"/>	Mast
<input type="checkbox"/>	Fuselage
<input type="checkbox"/>	Flitebox
<input type="checkbox"/>	Cables
<input type="checkbox"/>	Propeller Duct
<input type="checkbox"/>	Propeller

**Replaced**

<input type="checkbox"/>	Seals
<input type="checkbox"/>	Oil
<input type="checkbox"/>	Flitebox Gore vent
<input type="checkbox"/>	Cables
<input type="checkbox"/>	Propeller Duct
<input type="checkbox"/>	Propeller
<input type="checkbox"/>	Anode

**eFoil Hours of use****Date****Name of Technician****Signature of Technician****Authorised Repair Centre**

## Maintenance Schedule

### 300HR/36 MONTH SERVICE

WHICHEVER COMES FIRST

#### Inspected

- Mast
- Fuselage
- Flitebox
- Cables
- Propeller Duct
- Propeller

#### Replaced

- Seals
- Oil
- Flitebox Gore vent
- Cables
- Propeller Duct
- Propeller
- Anode

eFoil Hours of use

Date

Name of Technician

Signature of Technician

Authorised Repair Centre

**Maintenance Schedule****400HR/48 MONTH SERVICE**

WHICHEVER COMES FIRST

**Inspected**

<input type="checkbox"/>	Mast
<input type="checkbox"/>	Fuselage
<input type="checkbox"/>	Flitebox
<input type="checkbox"/>	Cables
<input type="checkbox"/>	Propeller Duct
<input type="checkbox"/>	Propeller

**Replaced**

<input type="checkbox"/>	Seals
<input type="checkbox"/>	Oil
<input type="checkbox"/>	Flitebox Gore vent
<input type="checkbox"/>	Cables
<input type="checkbox"/>	Propeller Duct
<input type="checkbox"/>	Propeller
<input type="checkbox"/>	Anode

**eFoil Hours of use****Date****Name of Technician****Signature of Technician****Authorised Repair Centre**

## Maintenance Schedule

### 500HR/60 MONTH SERVICE

WHICHEVER COMES FIRST

#### Inspected

- Mast
- Fuselage
- Flitebox
- Cables
- Propeller Duct
- Propeller

#### Replaced

- Seals
- Oil
- Flitebox Gore vent
- Cables
- Propeller Duct
- Propeller
- Anode

eFoil Hours of use

Date

Name of Technician

Signature of Technician

Authorised Repair Centre



**flite**

**Fliteboard Pty Ltd**  
156 Jonson Street  
Byron Bay 2481 NSW  
Australia  
+61 02 669 431 86

**Fliteboard USA LLC**  
3 Main Street  
Suite C2 Nyack  
New York 10960  
+1 844 50 FLITE

**Fliteboard Europe B.V.**  
Van den Eindekade 4  
2102 LF Heemstede  
The Netherlands  
+31 6 480 137 32

hello@fliteboard.com  
support@fliteboard.com  
fliteboard.com