

## FOIL-SMART.COM

### Instruction Manual Q3 2017

Thank you for purchasing one of our hydrofoils. We hope that you will enjoy the thrill of flight above water.

Please read this instruction manual to familiarise yourself with the hydrofoil, its use, and safety aspects.

#### **Safety First:**

- Hydrofoiling is a water sport and, as such, poses some risks. We recommend that you wear a suitable helmet, an impact vest with adequate floatation for your body weight, and a full-length wetsuit at all times when hydrofoiling.
- Ensure that the water depth is more than enough for the foil length you are using.
- Any collision (that is, with an object or person) is extremely dangerous, as you are likely to hit head first the obstacle or the sand below you. A collision may also damage the foil, which is not covered by the warranty.
- Never foil on your own.

#### **Assembly:**

- The hydrofoil consist of various parts that need to be assembled correctly.
- Start by attaching the larger wing to the front of the fuselage by means of the three 6mm screws supplied. Use a good quality hexagon key that fits snugly to the screw head. Be careful not to cross-thread or over-tighten any screws.
- Next, attach the smaller back wing with the flatter side in contact with the bottom of the fuselage. Use a 40mm screw in the front and a 30mm one at the back. These screws pass through the small wing and



Back wing attachment

fuselage and screw into the vertical fin.

- The foil has been tuned for most riders styles. Should you wish to tune it to your liking then loosen the back wing screws and remove the very back screw. Now insert a carbon spacer to create a slight back wing angle change. Reinsert and tighten these screws.
- Be careful not to cross-thread or over-tighten any screws.
- The mast has a straight front edge and a slightly curved back edge. Insert the end of the mast gently into the matching slot in the fuselage. Do not rock or lever the mast forward and backward, this will wedge open the fuselage and cause damage.
- Once the mast is inserted, ensure that the through-holes are lined up. Use the 8mm mating screw sets here. Insert the barrel with a screw and secure the other screw from the opposite side( mating screw set). Ensure that both these screw sets are well tightened. Apply thread lock in the event that these screws loosen during use.
- Now the foil should be ready to attach to your board.
- First, ensure that the 8mm bolts are the correct length by pushing them through the washers and holes in your board. The bolts should protrude into the KF box in the underside of the board by 20 to 30mm, but not extend out of the box. If they are longer than this, cut and file them to length and ensure that the thread is clean. If they are shorter, you will need to replace them with longer 8 mm metric ones. Lay the board on its side and insert the mast into the box of your board. Tighten these bolts well, alternating the tightening from the front to the back bolt until the mast is well seated.
- Be careful not to cross-thread or over-tighten these bolts.
- Now, check all fasteners to ensure that they are well tightened.

### **Disassembly is the reverse of the above:**

- After unscrewing the long mast bolts, lay the board on its deck and rock the foil forward and backward, steadying your board with your bare foot. Once the foil is removed from the board, rinse with fresh water and disassemble the foil for easier transportation as needed.

### **Care and Maintenance:**

- The foil is manufactured from epoxies, carbon fibres and other composites, and stainless steel. Although these are reasonably durable materials, care and maintenance are required to maintain your foil's

performance and appearance.

- DO NOT LEAVE THE FOIL IN DIRECT SUNLIGHT, A HOT CAR, OR ANYWHERE ELSE WHERE IT MAY BE EXPOSED TO HEAT OR SUNLIGHT. DOING COULD CAUSE DAMAGE.
- Avoid placing the foil on hard surfaces that are sharp or abrasive, as this may damage the finish.
- When not in use, cover and place the foil in a shaded area.
- Always rinse with fresh water after use.
- Once a week, remove the front wing and mast from the board and lightly grease the screws and bolts before reinserting them.
- Ensure that sand and other materials do not accumulate or block the holes for the screws. Damage will occur to the threaded areas should you screw them back in with sand or other debris.

### **Warranty:**

- The foils are covered by a limited warranty.
- We warrant all products to be free from defects in materials and workmanship for six months from the date of purchase by the original owner.
- This warranty applies to the original owner for purchases made directly from Foil-Smart or our authorised dealers, and is not transferable.
- In the event that damage is due to a material or manufacturing defect, we will determine whether to repair or replace the product or component in question.
- The owner is responsible for all associated shipping charges.
- Foil-Smart reserves the right to determine if a product will be covered under warranty or not.
- Normal wear, surface abrasion or surface damage, and damage due to improper use, modification, negligence, exposure to heat, cold or the sun, or damage caused by transport are not covered under warranty.
- Damage due to use in surf, jumping or use as a demonstration unit or rental unit is not covered under warranty.