



NATE VOLK RIDER: CASH BERZOLLA



FOIL

MANUAL







 ERIC AEDER **RIDER:** JEFF CLARK AND ARMIE AT LA PEROUSE BAY.



Thanks for choosing an Armstrong foil, we like your style!

Born out of New Zealand, the Armstrong brand began as a group of friends with the shared goal of developing top-of-the-line equipment for the foil sports we love. Quality is at the heart of what we do and drives our ongoing pursuit of better performance and long-lasting durability. Our mission at Armstrong is to build high quality equipment with cutting edge design for riders of all levels and disciplines.

Live to ride.
Armie Armstrong





CARE AND MAINTENANCE

To keep your equipment operating perfectly for years to come, we suggest the following:

- Always use the covers/bags provided to protect from knocks and UV damage.
- Do not leave your equipment inside a hot car.
- Keep foils and boards out of direct sunlight.
- Before each ride, check that the screws and fittings are tight. Do not overtighten and remember to replace all screws at least once yearly.
- After use, disassemble and rinse in fresh water when possible. Disassemble, wash and dry before long-term storage.
- Small surface damage can be buffed out with 400\800 grit sandpaper.
- Dings can be repaired with glass or carbon fibre and epoxy resin. It is also possible to use polyester resin or solar res.

SAFETY:

Your safety and that of others

The inherent dangers associated with watersports demand respect. While there may be rescue and lifeguard assistance at popular spots, these should only be relied on in emergencies as a last resort. When taking part in a watersport, ensure you have as much information and education as possible in order to avoid placing yourself in life-threatening situations.

The Basics

- Know how to swim. Even if you're a good swimmer, wear a life jacket/PFD when you're on the water.
- Never go out alone.
- Check weather and sea conditions before heading out.
- When starting learning, take lessons from experienced and qualified professional sources.
- Protect your head with a watersports helmet.
- Know the local rules.
- Be respectful of ALL sea life.
- Label your gear with contact info.
- Protect your skin.
- Be respectful to all water users and keep a safe distance to avoid incidents.

Foil Sports and Environments

The range of foil sport activities is diverse and different safety concerns will arise depending on the activity. For example, the safety requirements and considerations for surf or SUP foiling will be different to someone intending to wake or tow foil behind a boat. The environment in which the sport is practiced will also have a bearing on what safety advice you should follow.



Beach Sports Safety

Applicable to surf, SUP, kite and wing foiling.

- Assess the beach when you arrive. Note any swimmers and other water users, rocks, piers, or breakwaters.
- Wait an hour after eating before going in the water. Never drink alcohol before going out.
- If you're going out alone, be sure to have someone keep watch from the beach.
- Get out of the water if you feel cold.
- Take notice of signs and flags, especially red and yellow flags that indicate swimming areas patrolled by lifeguards.
- A black and white chequered flag marks the designated area for boaters and surfers.
- If you see a red flag, do not enter the water.
- If you see someone in distress, contact the coast guard.
- If you get into trouble on the water, holding onto your equipment will provide extra flotation and visibility.
- Never foil further from the shore than you can comfortably swim.

Boat Sports Safety

Applicable to foiling behind boats, jet skis and other powered watercraft.

- Always wear a life jacket, even if you think you're a strong swimmer.
- Always check your equipment, including the boat and all safety equipment, fire extinguisher, first aid kit and distress signals.
- Tell someone where you are going and when you'll be back.
- Check the weather forecast before you set out, and make sure you are prepared for whatever weather conditions you may encounter.
- Be sure you're knowledgeable about the craft you are using and where you are planning to go, or take an experienced person with you.
- Always carry a reliable means of communication with shore (radio/phone).

WARNING:

Always use extreme caution when using this product.

- Misuse of this product can cause serious injury or death.
- Only use this product if you are in good physical health.
- Never act in a careless manner when using this product.
- You are responsible for your own safety and the safety of others around you when using this product.
- If you are under 18 you should have your parents or legal guardian read these warnings and instructions, you should not use this product unless you are under proper guidance and supervision.
- The use of this product exposes the user to many unavoidable and unexpected risks, dangers and hazards.
- Do not use this product if you are under the influence of alcohol, drugs or medications.
- Before using this product you must take lessons from a certified instructor/school.
- Always wear a helmet when using this product.
- This product is not a personal flotation device. Always wear a coast guard approved personal flotation device when using this product near water.
- Always carefully inspect all of your equipment before using it.
- Never allow anyone who is not familiar with this product to use it without experienced assistance.
- This product is equipped with user operated leash release systems, which need to be activated by the user to work.

This manual refers to the current product it comes with. No information contained herein applies to previous and/or other products.



LIABILITY:

Armstrong Foils International Release of Liability

RELEASE OF LIABILITY, CLAIM WAIVER, ASSUMPTION OF RISK

By assembling and/or using this Armstrong product, you agree that you have read and understood the entire Armstrong product owner manual (a copy of which can be viewed at www.armstrongfoils.com/warranty-and-replacement-policy), including all instructions and warnings contained in that Manual, prior to using the Armstrong product in any way. You agree to ensure any additional or subsequent user of your Armstrong product will read and understand this Release of Liability, Claim Waiver, Assumption of Risk before using any Armstrong product prior to allowing that person to use your Armstrong product.

ASSUMPTION OF RISK

Use of the Armstrong product and any of its components involve certain risks, dangers and hazards that can result in serious personal injury and death to both the user and to non-user third parties.

In using this Armstrong product, you freely agree to assume and accept any and all known and unknown risks of injury to you and third parties while using this equipment.

The risks inherent in the use of this product can be greatly reduced by abiding by the warning guidelines listed in the Manual and by using common sense.

Release and Waiver of Claims in consideration of the sale of the Armstrong product, you unconditionally and irrevocably hereby agree to the fullest extent permitted by law, as follows:

(a) To waive any and all claims that you have or may have in the future against Armstrong International Limited and all related parties resulting directly or indirectly from use of the Armstrong product and any of its components.

(b) To release Armstrong International Limited and all related parties from any and all liability for any loss, damage, injury or expense that you or any users of your Armstrong product may suffer, or that your next of kin may suffer, as a result of the use of the Armstrong product, due to any cause whatsoever, including negligence or breach of contract on the part of Armstrong International Limited and all related parties in the design or manufacture of the Armstrong product and any of its components.

INDEMNITY

In further consideration of the sale of the Armstrong product and as a separate obligation, you agree, to the maximum extent permitted by law, to indemnify Armstrong International Limited and all related parties from and against all claims, proceedings, liabilities, costs, damages and expenses that they may suffer or incur as a direct or indirect result of your use of your Armstrong product or the use of your Armstrong product by any third party.

In the event of your death or incapacity, all provisions contained herein shall be effective and binding upon your heirs, next of kin, executors, administrators, assigns, and representatives. Armstrong International Limited related parties have not made and expressly deny any oral or written representations other than what are set forth herein.

WARRANTY:

The Armstrong Warranty

Warranty Claims

All claims must be accompanied with a clear explanation and clear dated photographs of the parts in question. We also require a dated proof of purchase in the form of an invoice or receipt. Armstrong reserves the right to determine if a product will be covered under warranty once all the documentation has been received.

Sale items

Only regular priced items may be refunded, unfortunately sale items cannot be refunded.

Exchanges and Shipping

We only exchange items if they are defective. If you have a Warranty claim, please first send us an email to info@armstrongfoils.com. We will arrange for the assessment and collection of the item. Where the item is assessed and deemed to be covered under Warranty, we will cover the shipping costs. Where the item is not deemed to be covered by Warranty, you will be responsible for the return/exchange shipping costs.



Better by Design.

1: MAST

Our tapered one-piece carbon fibre masts are ultra solid at the top and slick through the water down below. The unique core layup delivers a mast with smooth consistent reactive flex which generates sweet handling response, better stability and flex to drive you through turns.

2: HARDWARE

Our mast to board hardware are the crown jewels of the foil world. We developed an ultra-strong and corrosion free mast to board connection system that takes it to the next level with titanium bi-directional washers, titanium t-nuts and our own torx head stainless steel 316L screws.

3: STABILISER

Designed to harmonise with our front foils. The angle of the stabiliser can be adjusted with our Polycarbonate Pro Shims (PPS), allowing you to tune your set up to your personal preference. Construction consists of a foam core wrapped with high quality carbon to keep it light and rigid. Titanium screw inserts are in keeping with our philosophy of zero corrosion materials throughout.

4: FUSELAGE

The Armstrong TC fuselage is a ground breaking work of art in terms of engineering and design. The fuselage has a solid titanium core running throughout its length, and all screws tap into this core for strength and a corrosion free ride.

5: FRONT FOILS

Our foils are shaped and refined to deliver that sublime Armstrong feeling. The foil sections have been carefully refined by one of the world's foremost sport wing designers. Construction is based around a high-density foam core, wrapped with 100% IM and high modulus carbon fibre.





SETTING UP:

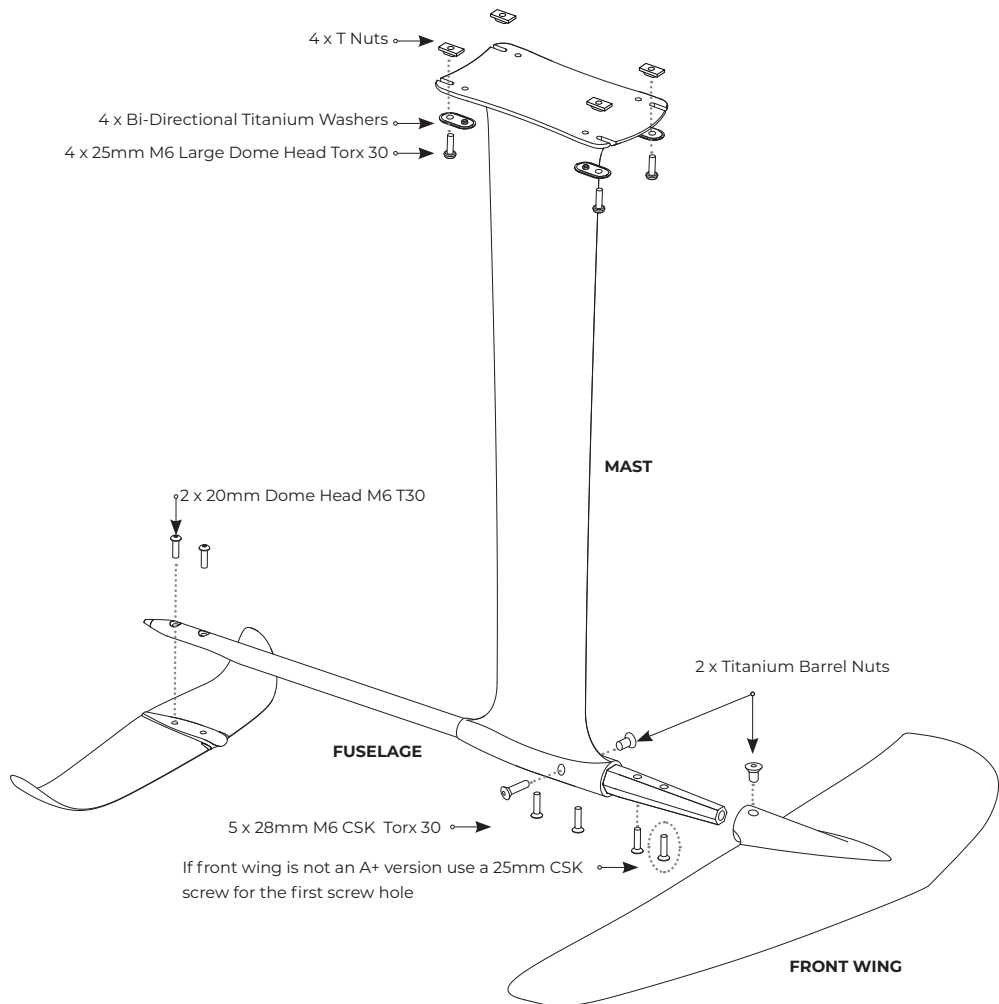
A+ System Assembly Guide

Before assembly, take time to make sure all connections are sand and debris free.

When new the fit can be firm, a light tap with a rubber mallet might be required to line up the holes.

Do not over tighten the screws. Firmly hand tighten and release screws by hand only; do not use power tools. Do not tighten until you have all screws and barrel nuts in position and correctly threaded. Tighten the screw before the barrel nut.

- Mast top screws, 4x 25mm M6 large dome head Torx 30, firm hand tight = 8N.m torque wrench setting
- Front foil barrel nut and screws, 2x 28mm M6 countersunk Torx 30, firm hand tight = 8N.m torque wrench setting.
- Mast to fuselage barrel nut and screws, 3x 28mm M6 countersunk Torx 30, firm hand tight = 8N.m torque wrench setting.
- Stabiliser attachment screws, 2 x 20mm dome head M6 Torx 30, firm hand tight = 8N.m torque wrench setting.
- All screws should be replaced annually. If they are being tightened and loosened regularly, replace them sooner.





SETTING UP:



1. Assemble the 4 x titanium bi-directional washers, t-nuts and 25mm large dome head T30 screws.



2. Place the assembled t-nuts into the board's foil tracks by holding the washer at 90° to the foil track. Tip: set the screws only two turns into the t-nuts.



3. Attach the mast to the board by lifting the titanium washers onto the mast and rotating them into the correction position.



3a. The washers can be turned around and the screws set to the inner mast holes for 20mm extra adjustment forward or rearward in the tracks.



4. Position the mast halfway along the lift scale on the board to start and hand tighten the fittings.



5a. Slide the fuselage firmly into the mast until the screw holes align. Tap front of fuselage if necessary.



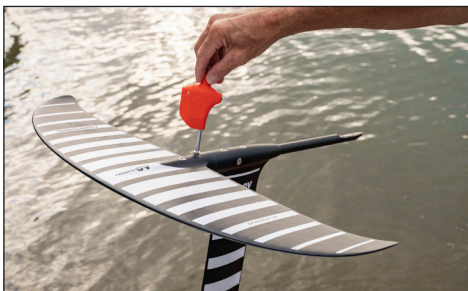
5b. Fasten with 3 x 28mm M6 T30 and a barrel nut. Do not tighten until you have all screws and the barrel nut in position and correctly threaded.



6a. Slide the front foil firmly onto the fuselage until screw holes align. To avoid damage, the fuselage must always be firmly inserted into the mast before attaching the front foil.



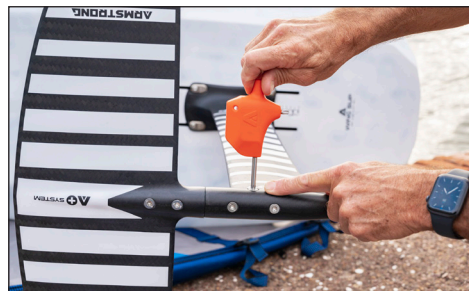
SETTING UP CONTINUED:



6b. Fasten with 2 x 28mm M6 T30 screws and a barrel nut. Do not tighten until you have the screws and barrel nut in position and correctly threaded.



7a. Turn the foil on its side to install the front foil barrel nut.



7b. Tighten the screw before the barrel nut.



8. Putting the board on its side makes it easier to mount the stabiliser components.



9. Using the 20mm dome head M6 T30 screws, attach the stabiliser to the fuselage.



10. For experienced riders, the Polycarbonate Pro Shims can be added to refine your ride.

NOTES:

- A:** Do not overtighten the screws. Firmly hand tighten and release screws by hand only; do not use power tools.
- B:** All screws should be replaced at 6 - 12 months. If they are being tightened and loosened regularly, replace them sooner. Slide the front foil firmly onto the fuselage until screw holes align. To avoid damage, the fuselage must always be firmly inserted into the mast before attaching the front foil.
- C:** Do not tighten until you have all screws and barrel nuts in position and correctly threaded. Tighten the screw before the barrel nut.
- D:** For disassembly of the front foil and fuselage, use the methods described on the following page. The foil kit may need to be removed from the board and set up as per the following photos:





DISASSEMBLE:



1. To remove the front foil, undo the screws and hold the front of the mast. Apply firm pressure at the back of the foil with your thumb, taking care as it may be sharp. At the same time, with your other hand, wiggle a wing tip up and down while pushing on the thumb; the foil will ease its way off the fuselage.



2. If the foil is tight and cannot be removed by hand as above, place the rear of the foil on a wooden bench (e.g: a park or workshop bench).

3a. Carefully tap the front of the mast vertically downwards with the palm of your hand.



3b. Alternatively, use a rubber mallet or a block of wood.



4. If the fuselage is tight inside the mast, place the rear of the foil onto a wooden block. Carefully tap the front of the mast vertically downwards with the palm of hand or a rubber mallet.





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