

# ASSEMBLY INSTRUCTIONS

## Assembling the Foilboard Hydrofoil

Required: Strut (22A); Fuselage (22B); Front Wing (23); Rear Wing (24); Allen Bolts (18, 19, & 20) and Allen Wrenches.

- 1) Apply a small amount of grease to the end of the strut that has two holes side by side. Now insert the strut into the pocket in the fuselage. Install the 3/8 – 16 x1” Flat Head Allen Bolts (33) and torque to 25-30 foot lbs. Anti-seize or similar lubricant is recommended to insure these bolts do not seize in place after time.
- 2) When bolting the Wings to the T-bar please note that there are different size bolts for the front & rear wings. The front wing uses 3/8” diameter bolts, the front bolt is 3/4” long (19), the middle and rear bolts are both 1” long (20). The rear wing uses 5/16” diameter bolt that are 5/8” long (18).
- 3) The foil is assembled properly when all winglets are facing down and the Allen bolts are tightened to approximately 10 foot-pounds of torque. Please refer to diagram for location of each bolt.
- 4) These bolts occasionally work loose over time. You must re-check each bolt periodically to maintain tightness. We recommend some sort of anti seize product to prevent these bolts from seizing in place. **Do Not Use Loc-tite on these bolts!**

## Mounting the Foil to the Board

Required: Foil Assembly, Board, 3 - 5/16” x 1-1/2” bolts

- 1) Apply a small amount of grease to the end of the strut and insert strut into the board socket. Gradually work the strut into the pocket until it bottoms out in the socket.
- 2) Install the 3 5/16” bolts thru the top of the board into the strut. Tighten each bolt to 20 foot pounds of torque.

## Mounting the Bindings to the Sky Ski Board

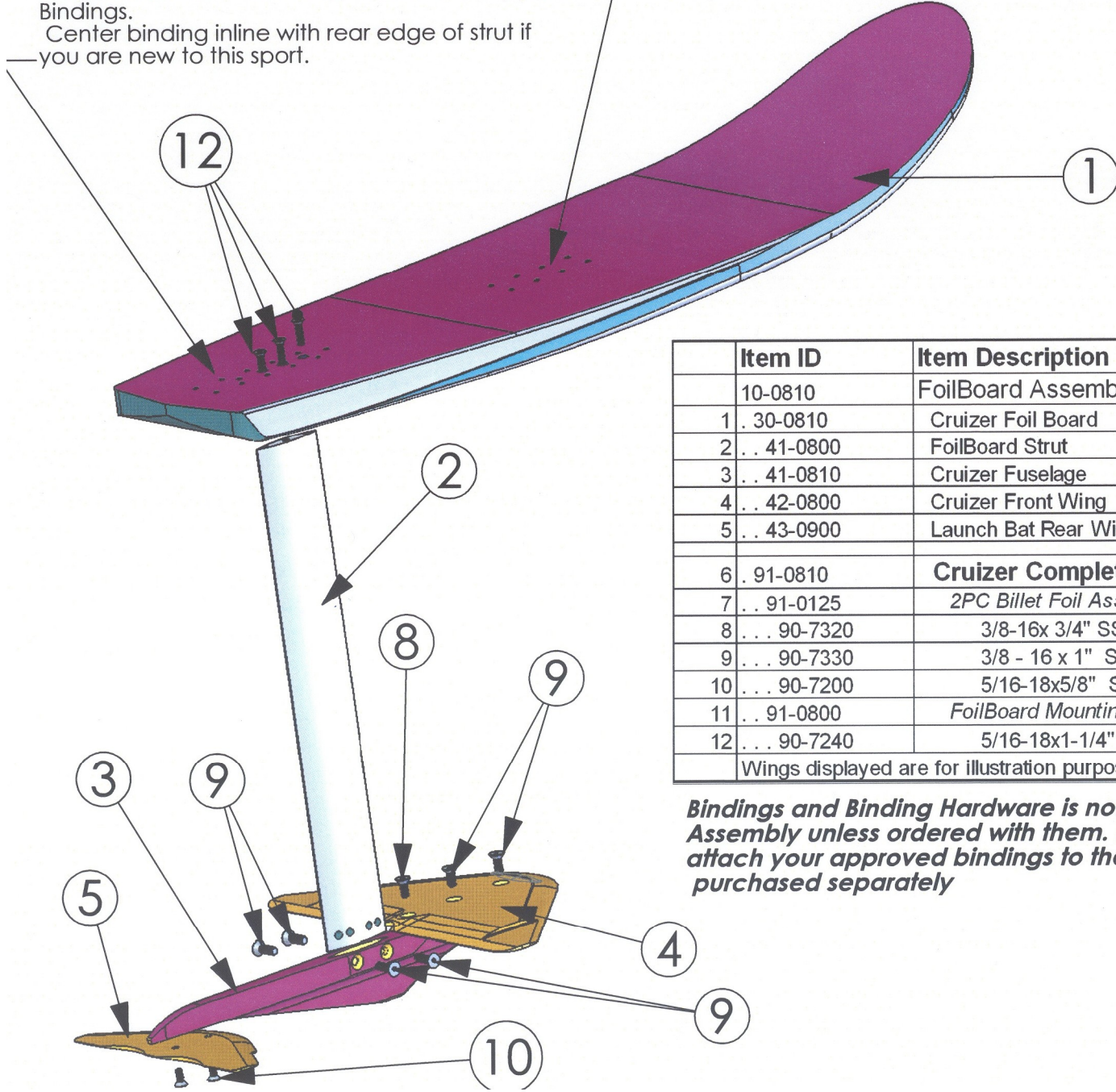
Required: Bindings; Board (1); all remaining hardware

- 1) The rear insert pack for the binding has a total of 10 inserts, 6 of them have ¼ x 20 bolts already in them. If you wish to use any of these inserts to mount the rear binding just remove the bolts and install the binding mounting bolts in their place. If you do not use these 6 holes then keep the bolts in them, as they do perform an integral and structural purpose.
- 2) Rear binding should be placed centered over the trailing edge of the strut. After the first ride if you need more lift move the rear binding towards the rear of the board, if you need less lift move it towards the front of the board.
- 3) If using the Flow “Amp” Bindings from Sky Ski, place the plastic washers on the 4 holes that will be used to mount binding, then place binding in desired location on top of plastic washers. If using other snowboard bindings the plastic washers will not be needed.
- 4) Thread the 4 ¼ x 20 bolts down thru the binding, thru the plastic washers and into the board.
- 5) Follow same process for front binding. Your bindings should be about shoulder width apart.
- 6) Binding position is determined by personal preference. If you don’t know what your preference is, a good place to start is with the rear binding at 0 to 5 degrees, the front binding at 15 to 20 degrees.

**Please note, checking and maintaining tightness of all hardware is your responsibility!!**

Use Std "4X4" Approved Snow Board Bindings. Attach Rear here with SS 1/4"-20 Screws Supplied Bindings. Center binding inline with rear edge of strut if you are new to this sport.

Use Standard "4X4" Snow board Bindings attach front plate here With 1/4"-20 screws supplied with Bindings.



	Item ID	Item Description	Qty Needed
	10-0810	FoilBoard Assembly	1
1 .	30-0810	Cruizer Foil Board	1
2 . .	41-0800	FoilBoard Strut	1
3 . .	41-0810	Cruizer Fuselage	1
4 . .	42-0800	Cruizer Front Wing	1
5 . .	43-0900	Launch Bat Rear Wing Polished	1
6 .	91-0810	<b>Cruizer Complete Hdw Assy Kit</b>	1
7 . .	91-0125	2PC Billet Foil Assy (9 Bolts)	1
8 . . .	90-7320	3/8-16x 3/4" SS FHCS Allen	1
9 . . .	90-7330	3/8 - 16 x 1" SS FHCS Allen	6
10 . . .	90-7200	5/16-18x5/8" SS FHCS	2
11 . .	91-0800	FoilBoard Mounting Hardware	1
12 . . .	90-7240	5/16-18x1-1/4" SS FHCS	3
Wings displayed are for illustration purpose only and may vary by model			

**Bindings and Binding Hardware is not included with the FoilBoard Assembly unless ordered with them. If you need SS 1/4"-20 Bolts to attach your approved bindings to the Foilboard they may be purchased separately**

COMPTech MARINE  
 1651 Zachi Way  
 Redding CA 90663  
 530-244-6837 fax 530-241-5487

# **Safety Rules & Disclaimer**

Hydrofoiling has inherent risks, and injuries including disability and death can occur. Always follow all safety rules described in this manual. Do not attempt new maneuvers without proper safety equipment and supervision. Keep this manual and review it periodically.

## **ALWAYS.....**

Always ride the Foilboard with your approved and properly fitted boots & bindings.

Always wear a Coast Guard Approved personal flotation device that fits properly.

Always instruct new riders in all these rules & warnings, and make sure they use properly fitted & approved boots & bindings.

Always consider your surroundings. Stay well away from shore and other boats. Lakes and rivers often have shallow areas you should avoid such as rock bars, sand bars and outcroppings.

Always be aware that PWC's and other jet powered watercraft are able to tow a hydrofoil into areas that are dangerously shallow.

Always be aware that water levels may vary due to tides or flows.

Always avoid riding near swimmers, and others using the water.

Always follow all local rules and regulations regarding towed watersports

Always use a non-stretch tow line to reduce the risk of handle recoil.

Always use a trick release on your rope with an experienced pin puller when attempting new tricks or advanced maneuvers.

Always inspect all your equipment for frayed, damaged, or loose parts before each ride.

Always insure that your seat pinch bolts are tight before each ride.

Always maintain control and stay behind the boat while in a turn.

Always take responsibility for young or inexperienced riders. Realize that their safety is your obligation and their judgment may be inexperienced.

Always be prepared to quickly remove your Foilboard. Currents may push you into docks, anchor lines, boats or other fixed objects and pull you under.

Practice taking off your Foilboard as quickly as possible and be prepared to do so in an emergency.

Always look for other boat traffic after a fall. You will not be able to dive below the surface while strapped to the Foilboard.

## **NEVER.....**

Never ride in water that is unfamiliar or less than 8 feet deep.

Never exceed 15 mph until the "taxi" position is mastered.

Never ride at excessive speeds. Suggested speed is 20mph or less.

Never ride near, through, or over floating objects such as sticks, seaweed, or ropes.

Never tow more than one Hydrofoil at a time.

Never ride more than one person on one Hydrofoil at a time.

Never ride the Foilboard if under the influence of alcohol or drugs.

Never ride the Foilboard if your driver is under the influence of drugs or alcohol.

Never ride over your ability. Do not attempt jumps until you are completely comfortable flying the foil and crossing the wakes.

Never perform any modifications to your Foilboard. Examples are (but not limited to) lengthening or sharpening the foil, using non-Sky Ski approved components on any part of your Sky Ski Foilboard. This will void your warranty and could cause serious injury or death.

Never attach the foil assembly to any other watersports device.

Never throw away this manual. You must review it periodically, especially before allowing others to use or borrow your Sky Ski Foilboard. You must review these warning, safety rules, and disclaimer with each new rider you pull. Give this manual to anyone you sell or give a Sky Ski Hydrofoil to.

Never ride your Foilboard in or near electrical storms (Lightning). Immediately stop all water activities and seek shelter.

Do not use this product if you are pregnant, or could be pregnant, or if you have neck or back problems.

## **DISCLAIMER**

**Severe injury or death may occur, *even if you follow all of these rules.***

**Sport activities such as Hydrofoiling are inherently dangerous. The Sky Ski Foilboard is only as safe as the rider using it, and the driver towing it. Use common sense as the rider, boat driver or observer to reduce your risk of injury.**

# Flight School

## Ropes and Handles

Always use a non stretch rope to reduce the risk of handle recoil.

Your line or handle may become caught on the ski, seat tower or foil assembly, especially when leaning new tricks such as flips or spins. Always use a trick release with an experienced pin puller to reduce your risk of injury.

Rope length is a personal preference, there is no set standard. Generally, beginners will find it easier to learn with a shorter rope (55-65 feet) while experienced & advanced riders will prefer a longer rope (75-95 feet).

## Pre-Flight Checks

Before you hit the water, mentally review your plan on the water. Go through the motions on dry land with a rope and handle. Double check all your equipment for loose or damaged parts. Have a pre-ride discussion with your driver and observer. Warm up with some light calisthenics & stretching.

## Putting on your Sky Ski Foilboard

Being properly secured to your Foilboard helps prevent injuries caused by a free flying foil after a fall, but you can't avoid this if you don't use approved & properly fitted boots and bindings correctly. A fall without these on can result in one or both of your feet coming out of the bindings, causing ankle & knee damage, and/or the foil swinging around for a head or body shot.

Once you have your boots on you are ready to get into the bindings. Familiarize yourself with your bindings thoroughly. You should be able to secure your feet into the bindings with your eyes closed easily and quickly. There are 2 ways to get into the foilboard, either on the swimstep, or in the water. The easiest way is on the swimstep. Place the Foilboard down onto the swimstep with the foil in the water. Step into the bindings and secure them like you would a snowboard. If you are getting into the Foilboard in the water, the first step is to get into the water with your ski. **Do not dive in!** Be careful not to kick your feet by the foil. Always approach your Foilboard from behind it, with the board pointing away from you. If possible you can practice putting on and taking off your Foilboard in a pool or shallow water to speed the learning process. If you are pulling friends on your Sky Ski always make sure they use approved & properly fitted boots, and that the bindings fit correctly for their boots. Practice rapid removal of your Foilboard in case you need to get it off in a hurry. Possible scenarios include: avoiding oncoming traffic after a fall, being drawn into or under a fixed object while floating in a current, becoming stuck in the bottom after a fall. Be aware that these events, while unlikely, are possible. Preparation is critical.

## Ready to Taxi (8-15mph)

Now that you are connected to your Foilboard you are ready to taxi. The Foilboard floats in the position you need to be in to start. The boat driver should pull you up very slowly, this super slow start should be equivalent to pulling a small child up on training skis. The Foilboard comes up like a wakeboard, so just allow it to track as it wants to. Once you get line tension and start going, the tip will come forward. As soon as you are up on top of the water, stand tall, don't bend at the knees or the waist. Stand as tall as you can, pushing your hips forward into the handle. Keep your arms straight, with the handle down low by your waist. Put weight on your front foot while lifting up with your back foot to ride with the board on the water. Once you have mastered this, slowly begin to put weight on your back foot. If you get out of control then put your weight back on your front foot and ride the board. Once you can fly the foil in control you can turn just by pointing the board in the direction you want to go.

It is a normal reaction to lean back and "push away from trouble". Don't do it! Small movements have a dramatic effect on the performance of the foil. Use "micro-movements" for the best control. Practice taxiing and steering until you don't have to think about it.

## Learning to Fly (15-18mph)

When you have mastered the taxi, bump your speed up about 2 mph. Slowly start sitting up straight. If you begin to feel unstable, lean forward again. Increasing speed also generates lift, take it slow.

If you look down, you fall down. Keep your head up, eyes looking forward, into the boat to maintain proper balance.

## Speeds

*NEVER* exceed 15 mph until taxi position is mastered. Always increase speeds gradually. Slower is better, especially when learning new skills. The proper speed will depend on the size, weight & skill of the rider.

# SKY SKI

## LIMITED WARRANTY, LIMITED REMEDY AND LIABILITY RELEASE

### IT IS IMPORTANT TO READ ALL THE CONTENTS OF THIS FORM

#### SKY SKI LIMITED WARRANTY

The Sky Ski product warranties and obligations set forth below are in lieu of any other express warranties or obligations of Sky ski, its distributors, or retailers. The warranties and limitations extend only to the original purchaser or to the person for whom originally purchased for.

Sky Ski, for a period of one (1) year from the date of purchase will, at manufacturer's option, repair or replace at no charge any Sky ski hydrofoil product which has been determined to be defective in materials or workmanship. **This warranty does not apply to damage or failure due to:**

1. **Accidents, alterations, abuse or neglect.**
2. **Materials fatigue, normal wear & tear**
3. **Improper assembly, maintenance, or installation of parts or accessories not originally intended to be compatible with the Sky Ski as sold.**

**This warranty also excludes:**

1. **Damage incurred as a result of: running aground, hitting any object in the water, step-up jumping, lack of technical skill, competence, or experience of the rider.**
2. **T-bars, and seat towers which are bent from just riding along can be a sign of misuse or abuse and are not covered by this warranty.**

For a period of one (1) year from date of purchase, the neoprene and neoprene sponge used in the construction of the Sky Ski bindings, and seat pad are warranted to be free of defects in material and workmanship. **The Warranty does not extend to the tearing out of heel straps, nor does it extend to normal wear and tear or abrasion of the neoprene sponge foot beds, seat belt or seat pad, or damage due to improper handling, maintenance, use, or storage.** Do not use oil or silicone as a lubricant, as they will stay in your binding and prevent a secure fit.

Activities involving the use of the Sky Ski are by their nature HAZARDOUS. Users of the Sky Ski therefore assume the risk of bodily injury or death arising from those activities. Sky Ski is not liable to users or third parties for any incidental or consequential damages, including damages for personal injury, beyond the responsibility Sky Ski assumes for replacement or repair of its products subject to the conditions set forth herein.

#### USEFUL PRODUCT LIFE CYCLE

Every Sky Ski hydrofoil & seat tower has a useful product life cycle. This useful life cycle is not the same as the warranty period. The warranty identifies the period of time that Comptech Marine will replace or repair at our cost, any component determined to be defective in either materials or manufacturing, if it becomes necessary. The useful life cycle will vary depending on which model of hydrofoil, riding conditions, and the care & maintenance the hydrofoil receives. Competition, jumping, trick riding, and riding in severe conditions or climates, riding with heavy loads, or any other non-standard use can effect the useful life cycle of a Sky Ski hydrofoil or seat tower. Any one or a combination of these conditions may result in an unpredictable failure of a Sky Ski hydrofoil or seat tower that would not be covered by this warranty. All Sky Ski components should be periodically checked for indications of potential failures including cracks, corrosion, dents, deformation and any other indications of potential problems, inappropriate use or abuse. These are important safety checks and very important to help prevent accidents, bodily injury to the rider and shortened useful product life cycle of a Sky Ski hydrofoil or seat tower.

#### CLEANING AND MAINTENANCE

Keeping your foil clean and polished will maintain the performance. Polish can be maintained by using any aluminum polish, such as Luster Pad, available at Sky Ski.

#### STORAGE

Bright and neon colors will fade when subjected to prolonged sun-light exposure. **THIS IS NOT COVERED UNDER WARRANTY.**

To protect your ski from ultraviolet rays of sunlight, cover your Sky Ski or use a bag when not in use. Please contact us at any time with questions regarding any of our products.

**NEVER store your foil wet, or store in a wet foil cover or other wet environment, this will cause excessive pitting and corrosion. This is NOT covered by warranty.**

#### LIMITATION OF REMEDY

**All warranty issues MUST be taken care of through the dealer which the product was originally purchased through.**

During the warranty period, Sky Ski will, at its option either repair or replace defective equipment. To obtain repair or replacement, call Sky Ski customer service for a return authorization number. Then attach your name, address, phone number, description of problem and proof of purchase (for example, a sales receipt or canceled check) to the product. **At your expense**, ship or deliver the product to your Sky Ski dealer utilizing an accepted and traceable shipping method. If returning the equipment directly to Sky Ski call first to obtain a Return Authorization number. Items received with no RA# will be refused and returned. Replaced or repaired items under warranty will be returned to you at no charge.

Some states do not allow limitations on how long a warranty lasts, and some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

**Here at Sky Ski we are constantly researching and developing our methods of manufacturing and tuning to provide you with the best equipment possible. This means that while some specs change, the upgrading and re-tuning of your older equipment to the latest specs is not covered by this warranty.**