

## TIPS & TRICKS

**USEFUL PRODUCT INFORMATION, LIKE TIPS AND TRICKS TO OUR PRODUCTS CAN BE FOUND ON OUR WEBSITE. [WWW.NORTHKITEBOARDING.COM](http://WWW.NORTHKITEBOARDING.COM) THE QR CODE DIRECTS YOU DIRECTLY TO OUR SITE WITH THE NEW WAKESTYLE BAR!**



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# 1. RELEASE OF LIABILITY

## **RELEASE OF LIABILITY, CLAIM WAIVER, ASSUMPTION OF RISK**

By assembling and/or using this North Kite product, you agree that you have read and understood the entire North Kiteboarding product owner's manual, including all instructions and warnings contained in that manual, prior to using the North Kiteboarding product in any way. You additionally agree that you will ensure any additional or subsequent user of your North Kiteboarding product will read and understand the entire North Kiteboarding product Owner's Manual, including all instructions and warnings contained in that manual, prior to allowing that person to use your North Kiteboarding product.

## **ASSUMPTION OF RISK**

Use of the North Kiteboarding Product and any of its components involve certain inherent risks, dangers, and hazards that can result in serious personal injury and death to both the user and to nonuser third parties. In using the North Kiteboarding Product, you freely agree to assume and accept any and all known and unknown risks of injury to you and to third parties while using this equipment. The risks inherent in this sport can be greatly reduced by abiding by the warning guidelines listed in this owner manual and by using common sense.

**RELEASE AND WAIVER OF CLAIMS**

**IN CONSIDERATION OF THE SALE OF THE NORTH KITEBOARDING PRODUCT TO YOU, YOU HEREBY AGREE TO THE FULLEST EXTENT PERMITTED BY LAW, AS FOLLOWS:**

To waive any and all claims, that you have or may in the future have against Boards & More and all related parties resulting from use of the North Kiteboarding Product and any of its components

To release Boards & More and all related parties from any and all liability for any loss, damage, injury or expense that you or any users of your North Kiteboarding product may suffer, or that your next of kin may suffer, as a result of the use of the North Kiteboarding product, due to any cause whatsoever, including negligence or breach of contract on the part of Boards & More and all related parties in the design or manufacture of the North Kiteboarding product and any of its components. 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. Boards & More-related parties have not made and expressly deny any oral or written representations other than what is set forth herein and the North Kite product User's Manual.

## 2. SAFETY AND PRECAUTIONS

### **NORTH KITEBOARDING STRONGLY RECOMMENDS::**

If you are not yet able to kite or if you feel insecure, you must attend a licensed Kiteboarding school to learn the basics of this fantastic sport. Get familiar with the safety precautions, which are indispensable for safe Kiteboarding.

Kiteboarding creates a heavy strain on your body. You should only go Kiteboarding if you are in good physical condition and suffer from no medical conditions that may prevent you from kiting. Always act carefully to not endanger yourself or anyone else. Do not endanger the safety of uninvolved third parties! Be aware of the risks you take and limit them to a minimum level!

Before going on the water make sure you are familiar with your North Kiteboarding equipment. For your own safety, read the following instructions as well as product descriptions very carefully.

### **2.1. KITEBOARDING SAFETY**

- Fly your Kite only over unobstructed water. Never on land!
- Fly this kite only if you are a strong swimmer and are wearing a Coast Guard approved PFD.
- Only use bars with a safety system that you can open in emergency situations.
- Use a quick-release kite leash so that you can unhook your body from the gear in case of an unforeseeable emergency.
- Avoid power lines, telephone poles, airports, streets, buildings and trees.
- If you use a board that is leashed to your body, wear a helmet!
- Take into account the usual risks associated with water sports such as rocks, waves, sunburn, hypothermia, jellyfish etc.

## **2.2. DANGERS FROM THE KITE**

### **WHEN KITEBOARDING YOU MIGHT FACE THE EXTREME FORCES OF THE ELEMENTS.**

In rare cases the kite or its lines can cause dangerous situations:

- You can hurt yourself through uncontrolled water take-offs caused by gusty conditions, and the danger of collision with obstacles.
- The incorrect usage of lines creates a high risk of injury for yourself as well as others.
- People who get caught by the lines can suffer injuries or burns.
- Uninvolved third parties can get injured through crashing kites.
- Fly your kite only over unobstructed water.
- When kiting, do not fly over people or pets.
- Ensure that a semi-circle extending 100 meters downwind and to each side of your flying position is clear of people and obstructions.
- Use a kite leash that allows you to keep the kite under control.
- When not in use, inflated canopies must be secured with sand or heavy objects. A canopy filled with air can fly away at any time, injuring people and in extreme cases even kill them.

## **2.3. DANGERS FROM KITE LINES**

- Never touch the kite lines when the kite is under wind load as these lines are dangerously sharp when under tension.
- Never use kite lines damaged with knots, nicks, cuts etc. They must be changed!
- Use only lines that have no knots in them, as knots can weaken lines by as much as 50%.
- Do not touch the lines of the canopy, unless the kite has been secured to the ground. An unsecured kite can re-launch unexpectedly, putting the line dangerously under tension.
- Never tie lines around your arms or other body parts!!

## **2.4. DANGERS FROM THE KITEBOARD**

- A collision with the Kiteboard might cause serious head injuries.
- Injuries to the legs and feet are also possible.

## **2.5. DANGERS TO UNINVOLVED THIRD PARTIES**

- It is within your responsibility to check whether uninvolved people or other athletes may be endangered or injured by your actions or your gear.
- Do not kite at places where uninvolved third parties might get injured.
- Avoid flying the kite in the vicinity of other water users such as swimmers, kayakers, windsurfers, water-skiers and boaters.

## **2.6. WEATHER RELATED DANGERS**

- Avoid offshore wind.
- Be careful with onshore wind.
- Get information on tidal and sea current conditions at your kiting spot!
- Get information from both the weather report and the locals on prevailing weather conditions.
- Never use the kite with wind forces so strong that you are unable to maintain precise control.
- Do not use the kite when wind conditions are likely to change dramatically.
- Never use this kite when thunderstorms are nearby or when such storms have a good chance of developing (check the weather report!).
- Leave the water immediately when a storm is approaching.  
You are in a life threatening situation since you may be struck by lightning!

<b>BFT</b>	<b>M/S</b>	<b>KM/H</b>	<b>MPH</b>	<b>KNOTS</b>	<b>DESIGNATION</b>
0	0-0,2	0-0,8	0-0,6	0-0,5	Calm
1	0,3-1,5	0,9-5,5	0,7-3,5	0,6-3,0	Light Air
2	1,6-3,3	5,6-12,1	3,6-7,5	3,1-6,5	Ligth Breeze
3	3,4-5,4	12,2-19,6	7,6-12,2	6,6-10,5	Gentle Breeze
4	5,5-7,9	19,7-28,5	12,3-17,8	10,6-15,5	Moderate Breeze
5	8,0-10,7	28,6-38,8	17,9-24,0	15,6-20,9	Fresh Breeze
6	10,8-13,8	38,9-49,8	24,1-31,0	21,0-26,9	Strong Breeze
7	13,9-17,1	49,9-61,7	31,1-38,3	27,0-33,3	Near Gale
8	17,2-20,7	61,8-74,6	38,4-46,4	33,4-40,3	Gale
9	20,8-24,4	74,7-88,0	46,5-54,7	40,4-47,5	Strong Gale
10	24,5-28,4	88,1-102,0	54,8-63,6	47,6-55,3	Storm
11	28,5-32,6	102,1-117,0	63,7-73,0	55,4-63,4	Violent Storm
12	32,7+	117,1+	73,1+	63,5+	Hurricane

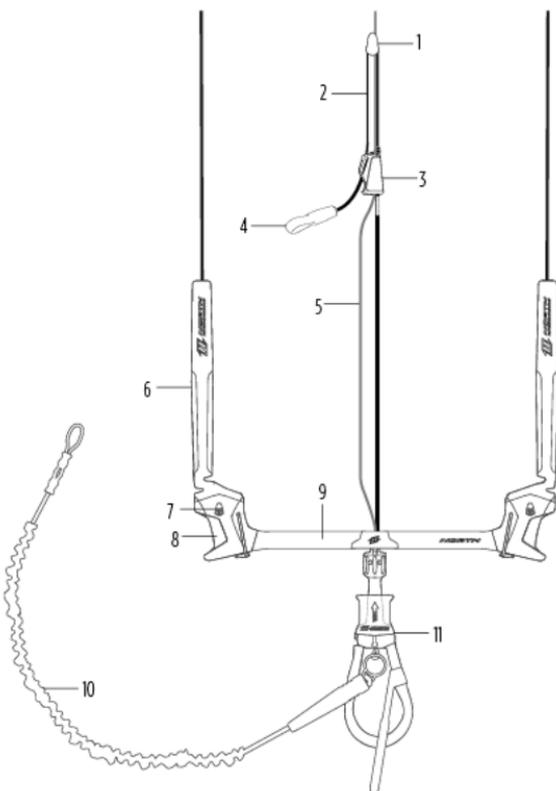
### THE LISTED RISKS CANNOT BE COMPLETE.

The basic rules for kiteboarding comply with those of common sense and are valid for all outdoor sports.

## 3. SYSTEM

### 3.1. WAKESTYLE BAR

The fresh, newly developed Wakestyle Bar is based around the already proven system of the Trust Bar, and the strengths and influences we took from our North Kiteboarding Wakestyle/Freestyle Team throughout the development phases. The Wakestyle Bar differentiates itself most specifically through its shorter width of 42cm, a larger Chicken Loop for effortless hooked-in riding and unhooking, single line depower with a rubber coating and lower 5-line >V< split only 2m away from the bar. In addition, the Wakestyle Bar contains an extra set of Hadlow lines with which you can use to create the new Hadlow setup.



1. Pulley
2. Depower Line
3. Vario Cleat
4. Hopper
5. Red Safety Line
6. Integrated EVA Floater
7. Flip Flop Function
8. Integrated Backline Adjuster
9. Sticky Bar Grip
10. Safety Leash
11. Iron Heart IV

Specifications in accordance with the French norm

NFS 52-503

Manufacturer: North Kiteboarding

Usage: kitesurf/ snowkite

Compatible kites: all Kites

produced by North Kiteboarding

Technology: release grip to

be pushed away from the body

Rider's weight max./min.:

120 kg/ 35 kg

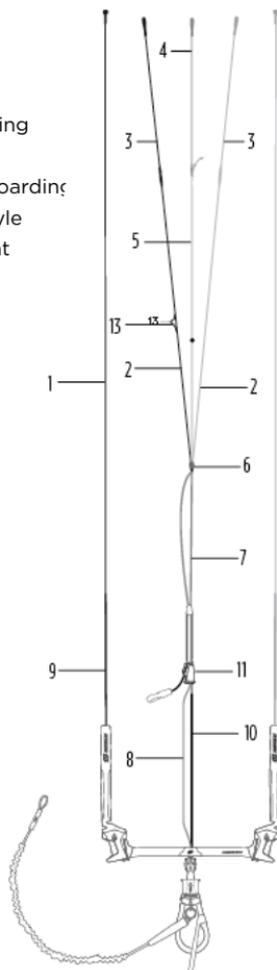
**3.1.1. WAKESTYLE BAR 5TH ELEMENT**

The Wakestyle 5th Element Bar is the perfect combination of that 'classic feeling' gained from the North Kiteboarding Trust Bar and the specific Wakestyle / Freestyle benefits of the new Wakestyle Bar (refer back to previous page.) If you're searching for maximum safety and depower to complement your Wake and Freestyle skills, then this is the optimum setup for you.

The Wakestyle Bar was developed for the North Kiteboarding Vegas. For full effect, this combination will unleash its outstanding potential however, you can use the Wakestyle Bar for your other North Kiteboarding 5-Line Kites. For ease of use, the Wakestyle Bar comes as a preassembled 5th Element setup as standard.



1. Back Lines
2. Front Line 1 (left, red / right, grey)
3. Front Line 2 (left, red / right, grey)
4. Safety Line above Y
5. Connector Line
6. Safety Pulley
7. Strong Middle Line
8. Red Safety Line
9. Leader Line
10. Depower Line
11. Vario Cleat
12. Adjustable Stopper Ball
13. Guiding Loop

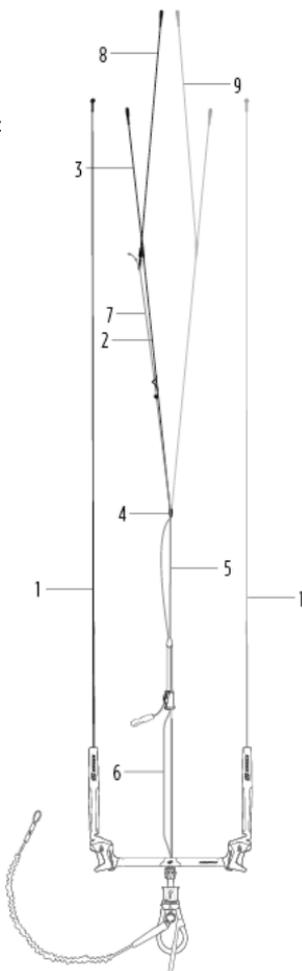


### 3.1.2. WAKESTYLE BAR HADLOW SETUP

The new Wakestyle Bar includes an additional Hadlow line set that can be used to assemble a further setup. This Hadlow setup generates a greater and more explosive pop, more power release and a delayed steering control. Although much of the depower is forgone in comparison to the Wakestyle 5th Element Bar, there is a fully functioning and perfect safety system in place should

A key player for the Ultimate hardcore setup within the North Kiteboarding Kite line-up, it can only be used with a new North Kiteboard Vegas from the 2015 collection.

1. Back Lines
2. Front Line 1 (left, red / right, grey)
3. Front Line 2 (left, red / right, grey)
4. Safety Pulley
5. Strong Middle Line
6. Red Safety Line
7. Connector Line
8. Hadlow Front Line left (red)
9. Hadlow Front Line right (grey)



### 3.2. IRON HEART IV

The Iron Heart IV has an array of new functions all designed to make your Kiting experience safer, easier and ultimately more enjoyable. The Chicken Loop of the new Wakestyle Bar has been made larger following the collaboration of our Wakestyle/Freestyle team in its development. This change allows for easier hooked-in and unhooked riding. In order to avoid potentially dangerous situations, it is highly recommended that you are familiar with the controls and functions of the Iron Heart IV. IT IS NECESSARY that you thoroughly study the owners manual.

**IMPORTANT: One MUST perform a test release and check the functionality of ones Iron Heart IV before every session. Be aware that no debris such as sand, grit or small twigs should be found within the Iron Heart IV. Should this be the case you must clean the Iron Heart IV in water.**

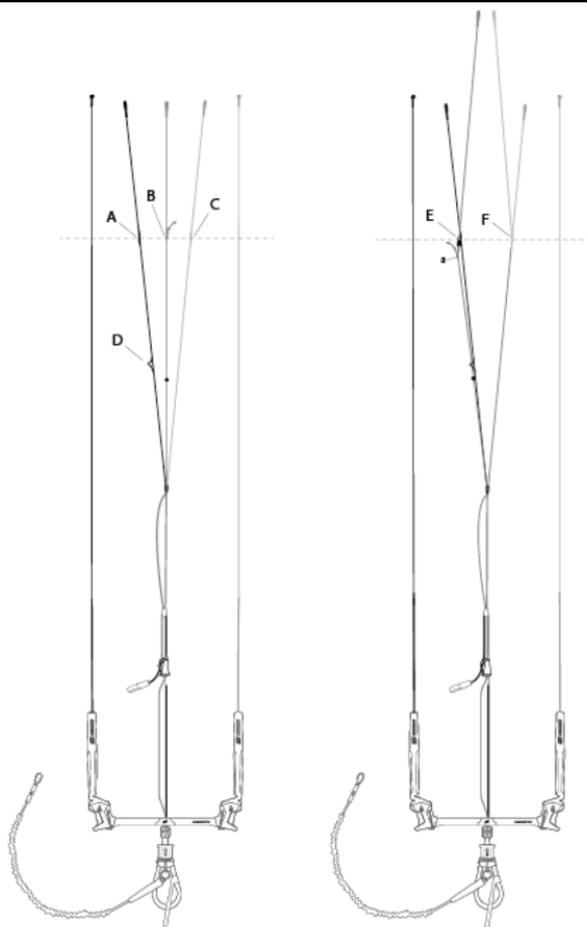
1. Safety Line
2. Single Depower Line
3. Plastic Head
4. Roto Head
5. Release Handle
6. Release Pin
7. Suicide Ring
8. Chicken Dick
9. Large Chicken Loop
10. Safety Leash



### 3.3. **WAKESTYLE BAR HADLOW SETUP CONVERSION**

If you wish to convert your Wakestyle Bar into the Hadlow line setup, please follow the subsequent instructions.

**IMPORTANT: The Hadlow Line setup only functions when used with a North Kiteboarding Vegas from the 2015 range. One will also have to make some modifications in order to use this setup. (Please refer to the Vegas manual)**



**Step 1:**

Unpack the Hadlow line set.

- Hadlow Front Line (HFL) Left (red line with blue Pigtails) incl. Bullet stopper ball.
- Hadlow Front Line (HFL) Right (grey line with yellow Pigtails)
- O-Ring (metal)

**Step 2:** Slide the O-Ring (metal) from the top, over the red front line 2 until the top of connection point A.

**Step 3:** Release the connection knot between the red front line 2 and front line 1 on connection point A. Pull the lines until they are roughly 8cm apart.

**Step 4:** Slide the O-Ring over front line 2 and front line 1, as displayed in the manual.

**Step 5:** Take the loop towards the top end of front line 1 over the O-Ring and pull tight.

**Step 2****Step 3****Step 4****Step 5**

**Step 6:** Pull the HFL Left (red) from the bottom, through the attached O-Ring until the Bullet stopper ball touches the O-Ring.

**Step 7:** Remove the upper blue piece of the 5- line (safety line above Y) at connection point B. The safety line above Y will not be required for the Hadlow Setup anymore. (without imagery)

**Step 8:** Pull the connector line from the bottom through the guiding loop, located on front line 1. (connection point D)

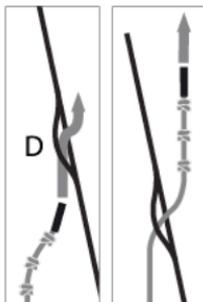
**Step 9:** Connect the HFL left (red) with the connector line by taking the bottom end of the HFL left and put it through the Larks Head Knot that has the bridle knots. Now connect to the connector line. (connection point E) In the basic setting one should have the Larks Head Knot connected to point A on the bridle knots of the connector line.

**IMPORTANT:** When in flight, the Bullet stopper of the HFL left should lay on the O-Ring (metal) and the connector line should be slightly drooped. Over the bridle knots of the connector line, one can set the parameters of the lines to balance out any changes.

**Step 6**



**Step 8**



**Step 9**

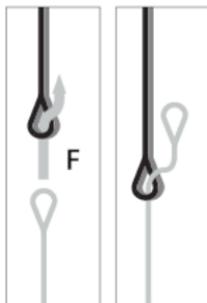
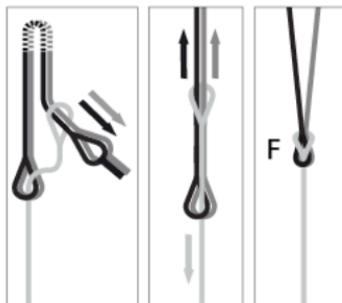


**Step 10:** Untie the connection between the front line 1 right (grey) and the bottom end of front line 2 right (grey) at connection point C. (without depiction)

**Step 11:** Place the bottom end of front line 2 right (grey) and the bottom end of the HFL right (grey) over each other.

**Step 12:** Loop the top end of front line 1 right (grey) through both loops.

**Step 13:** Pull both lines through front line 1 right (grey) and pull the formed knot tightly. (connection point F)

**Step 11****Step 12****Step 13**

Your Wakestyle Bar is now correctly installed and can be used as a Hadlow setup.

An instructional video of your Wakestyle Bar can be found under the following QR-Code:



## 4. FUNCTIONS

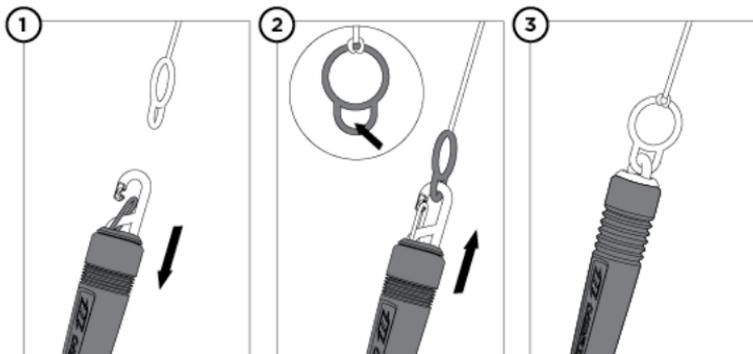
### 4.1. SAFETY LEASH

The new Safety Leash has a uniquely developed carabiner, sheathed by an EVA-Foam material. This foam cover prevents the carabiner from accidentally hooking into the lines and preventing against possible injury. At the other end of the Safety Leash there is an additional safety system enabling you to detach yourself from the Kite completely in the case of emergencies.

**IMPORTANT:** Before you start flying the Kite, it is imperative that you attach the Safety Leash to the Suicide Ring. Be aware that the Safety Leash is the final connection point between you and the Kite. Release **ONLY** if you find yourself in an emergency situation, and please bare in mind that an uncontrolled Kite can endanger those both on the water and the land.

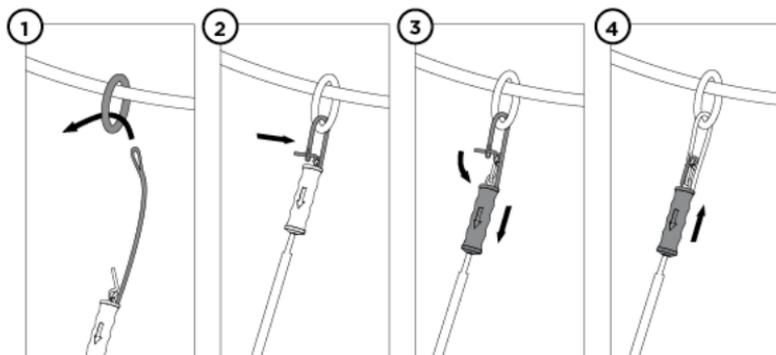
#### 4.1.1. ATTACHING THE SAFETY LEASH TO THE IRON HEART IV

1. Pull back the foam hood and open the carabiner.
2. Attach the carabiner to the small eyelet of the Suicide Ring which can be found on your Iron Heart IV.
3. Push the foam hood back up to cover the carabiner securely.

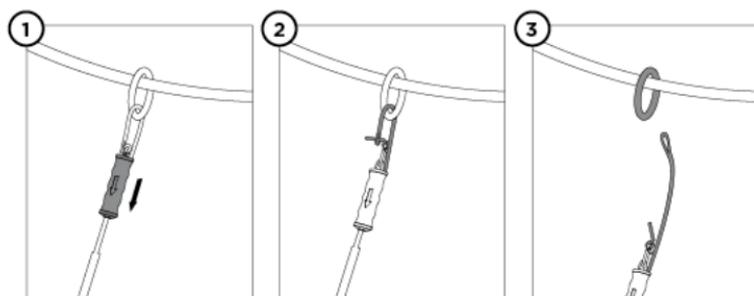


**4.1.2. ATTACHING THE SAFETY LEASH TO THE HARNESS**

1. Thread the red line at the release grip through the metal ring of your harness.
2. Pull the loop of the red line over the release pin.
3. Pull the release grip down while you push the release pin down.
4. Let go of the release grip so that the release pin disappears inside the grip.

**4.1.3. RELEASING THE SAFETY LEASH**

1. Grab the release grip with your whole hand and push it away from your body.
2. The release mechanism is triggered by pushing the release grip down.
3. The safety leash is then completely released from your harness.



## 4.2. SAFETY MODES

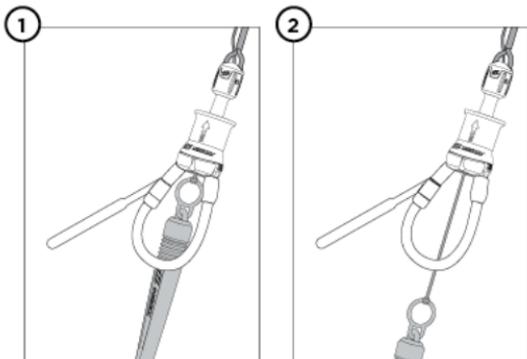
The new Iron Heart IV has two different safety modes. The Standard Safety Mode and the Suicide Mode. Depending on your skills and requirements you can opt for one of these modes before you take off.

**IMPORTANT: North Kiteboarding recommends using only the Standard Safety Mode because it permits completely depowering the kite. North does not recommend using the Suicide Mode at any time since this mode makes it impossible to completely depower the kite in certain situations. The Suicide Mode may only be used by very experienced riders if necessary. Riders who use the Suicide Mode must be aware of the consequences and bear responsibility for all resulting damages!**

### 4.2.1. STANDARD SAFETY MODE

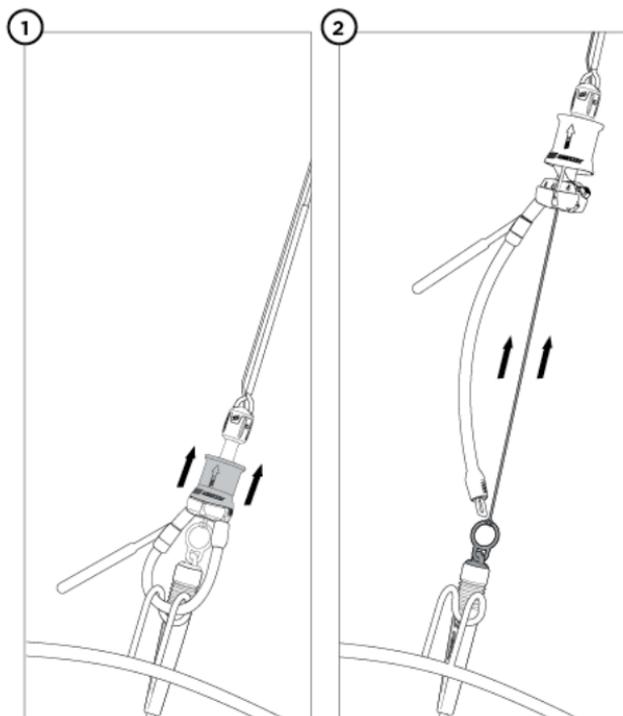
#### 4.2.1.1. SETTING UP THE STANDARD SAFETY MODE

1. The metal ring (Suicide Ring) at the Iron Heart IV is only attached to the red safety line and has no other connection to any other part of the system. The safety leash is hooked into the small eyelet of the Suicide Ring.
2. If you let go of the bar and Iron Heart IV in this mode, it will slide up along the red safety line towards the kite.



**4.2.1.2. RELEASING IN STANDARD SAFETY MODE WHILE HOOKED IN**

1. To separate yourself from your kite in an emergency situation while you are hooked in, simply push the red release grip at the Iron Heart IV away from your body.
2. This separates the connection between your harness hook and the bar. The bar and Iron Heart slide along the red safety line towards the kite. The kite comes down safely and depowers on the red safety line.



**4.2.2. SUICIDE MODE**

**IMPORTANT:** North Kiteboarding recommends using only the Standard Safety Mode because it permits completely depowering the kite. North does not recommend using the Suicide Mode at any time since this mode makes it impossible to completely depower the kite in certain situations.

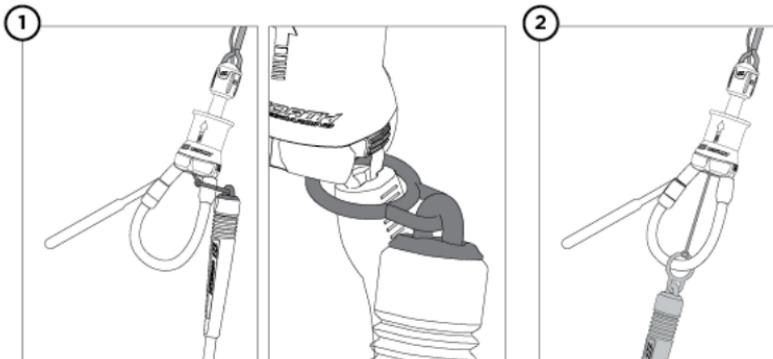
The Suicide Mode may only be used by very experienced riders if necessary.

Riders who use the Suicide Mode must be aware of the consequences and bear responsibility for all resulting damages!

**4.2.2.1. SETTING UP THE SUICIDE MODE**

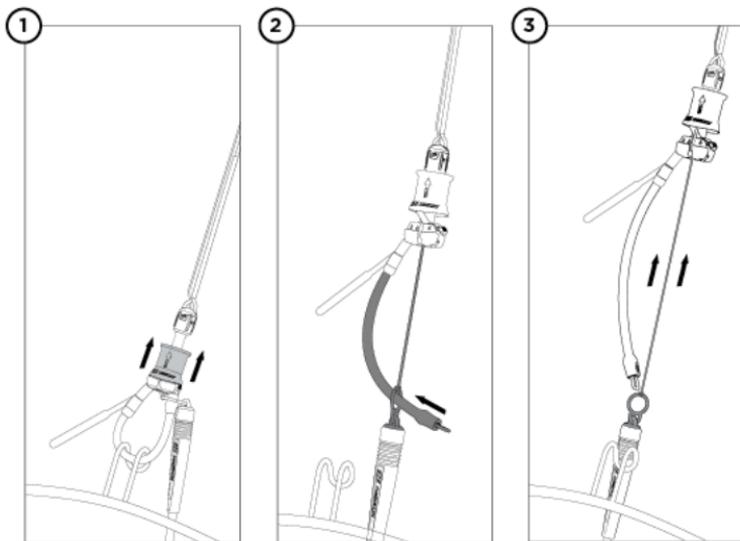
1. The metal ring (Suicide Ring) at the Iron Heart IV is attached to the red safety line and the safety leash is hooked into the little eyelet of the Suicide Ring. Additionally, the chicken loop runs through the large eye of the Suicide Ring.
2. If you let go of the bar and Iron Heart IV in this mode, the bar is unable to slide up along the red safety line towards the kite. This means that the kite cannot be completely depowered. The kite will always retain a considerable pull.

**IMPORTANT:** You must be aware of the fact that in such a situation, the Iron Heart is out of your reach can therefore not be released.



**4.2.2.2. RELEASING IN SUICIDE MODE WHILE HOOKED IN**

1. In order to separate yourself from the kite in an emergency situation while hooked in, simply push the red release grip at the Iron Heart IV away from your body.
2. This will separate the connection between your harness hook and the bar. The Suicide Ring automatically comes off the chicken loop.
3. The bar and Iron Heart will slide along the red safety line towards the kite. The kite comes down safely and depowers on the red safety line.



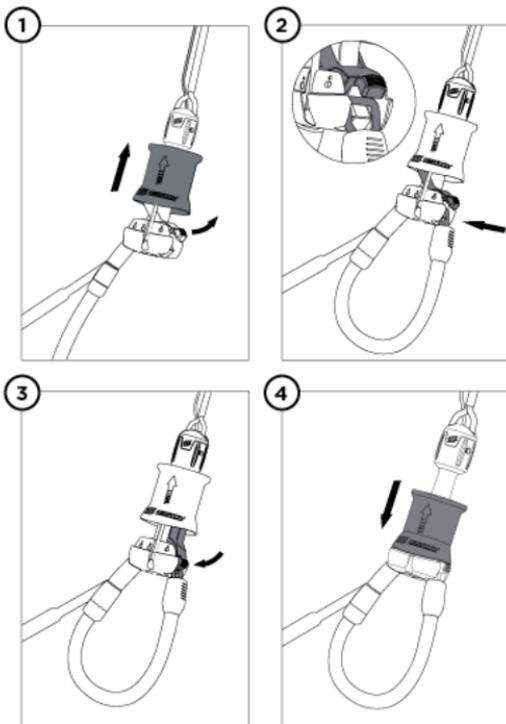
**IMPORTANT:** if the Suicide Ring should be bent out of shape after a hard crash or other impact it must be immediately replaced. Do not attempt to bend the ring back into shape. If the ring loses its round shape it is no longer functional and may cause malfunction of the safety system.



### 4.3. REASSEMBLING THE IRON HEART IV AFTER RELEASE

**IMPORTANT: keep the red safety line pulled in during assembly and keep an eye on your kite at all times. Make sure not to get caught in drifting lines. Never wrap any lines around your wrist or other parts of your body.**

1. Hold the release grip pulled upwards and make sure that the Release Pin is open.
2. Put the chicken loop ring on the small metal plate below the Release Pin.
3. Close the Release Pin with one finger while you are still pushing the release grip up.
4. Let the release grip slide down to lock the Release Pin in place.



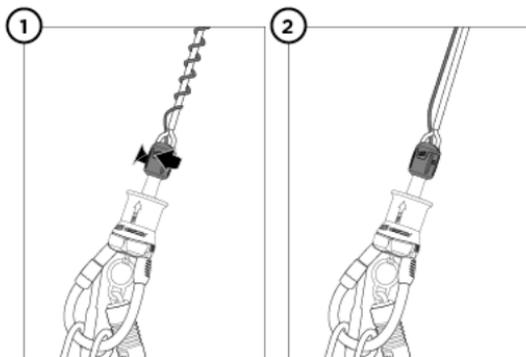
#### 4.4. ROTO HEAD

The Roto Head permits you to untangle the lines after a rotation jump or a kitemanoeuvre while you are riding. It is not necessary to remove the safety leash because the red safety line runs through the center of the Iron Heart IV.

**IMPORTANT: Always clean the Roto Head after riding by immersing it in clean water and moving it around. This prevents damage from sand and dried up salt.**

##### 4.4.1. UNTANGLING THE FRONT LINES

1. Simply grab the Roto Head with one hand and rotate it against the direction in which the lines are twisted.
2. After the lines were untangled, the Iron Heart IV is able to resume its proper function.



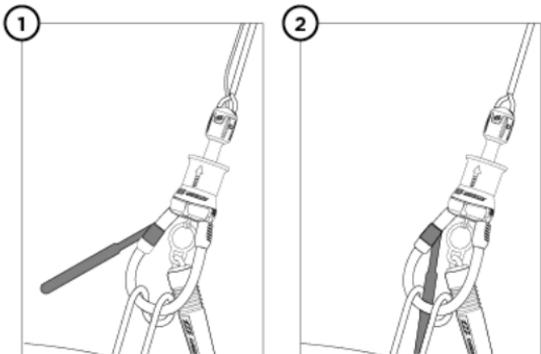
#### **4.5. FLIP FLOP CHICKEN DICK**

The new Chicken Dick makes it easier for you to lock the chicken loop. This prevents accidental unhooking of the chicken loop from the harness hook.

For unhooked tricks you can easily push the Flip Flop Chicken Dick to the side so that it is not in your way when hooking back in.

##### **4.5.1. HOW TO USE THE FLIP FLOP CHICKEN DICK**

1. For unhooked tricks, simply push the Flip Flop Chicken Dick to the side.
2. To avoid accidental release, push the Chicken Dick into the harness hook below the Chicken Loops while you are hooked in.



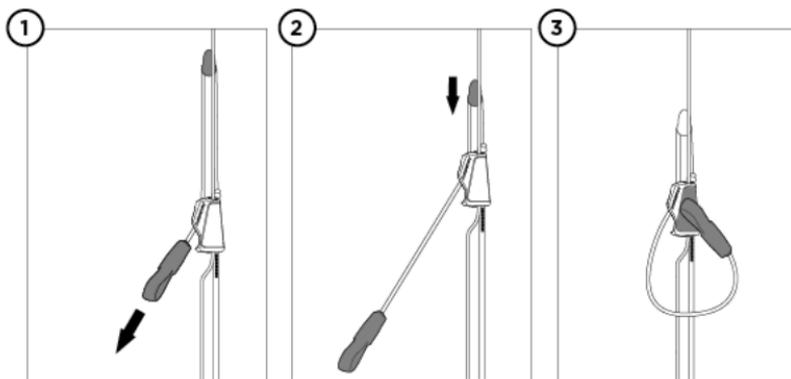
#### **4.6. VARIO CLEAT**

The Vario Cleat is the depower adjuster for your Wakestyle Bar and enables you to adjust the Kites power whilst flying. Due to the single, front line construction of the Wakestyle Bar, it is NOT possible for the rider to adjust the length of the Vario Cleat to suit his reach.

##### **4.6.1. DEPOWERING**

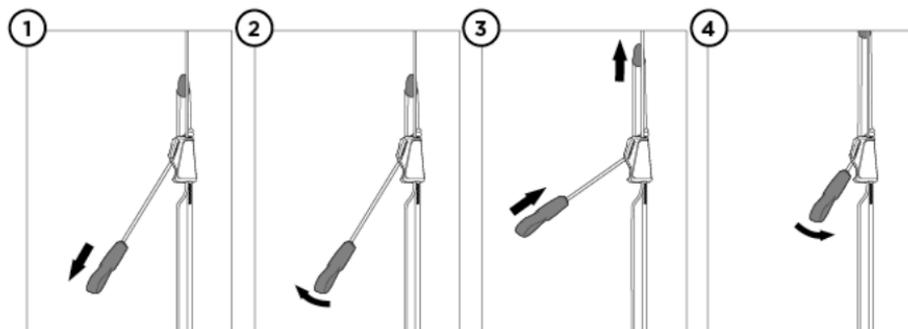
1. Pull the black adjuster towards your body until you get the desired depower effect.
2. Let go of the adjuster and the line will be locked between the teeth of the Vario Cleat.

3. To prevent the adjuster from getting tangled, it can be secured to the Vario Cleat with this Velcro.



#### 4.6.2. POWERING UP

1. Pull the black adjuster a short distance towards your body.
2. At the same time, move the adjuster away from the Vario Cleat, so that the teeth of the cleat release the line.
3. Now let the line slide back until you get the desired power.
4. Move the adjuster back towards the Vario Cleat, so that the teeth of the cleat can lock the line.

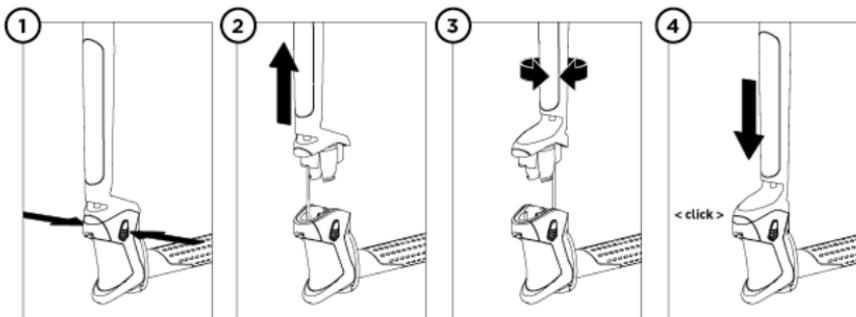


**4.7. FLIP FLOP FUNCTION**

The Flip Flop Function allows you to individually adjust the bar width. The narrow position reduces the kite's turning speed and is recommended for smaller kites and for New School tricks. The wide position is for maximum control and fast turning, suitable for larger kits, freeriding or wave riding.

**4.7.1. ADJUSTING THE BAR WIDTH**

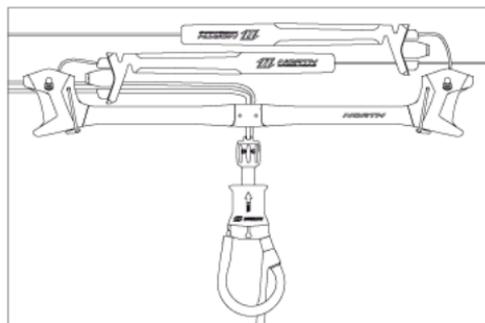
1. Press both buttons at the side of the bar end simultaneously
  2. Carefully pull out the reversible insert.
  3. Turn the insert to the desired position to adjust the bar width.
  4. Upon replacing the bar end you should hear a clear clicking sound.
- It helps to keep the steering line taut during this process.



**IMPORTANT:** Impurities or foreign bodies at the bar end can make reassembly difficult or impossible. In this case, rinse the bar end with clean water to remove impurities before reinserting it.

#### 4.7.2. WRAPPING THE FLYING LINES

To prevent distortion of the floaters during storage, we recommend removing them from the bar ends before wrapping the lines.



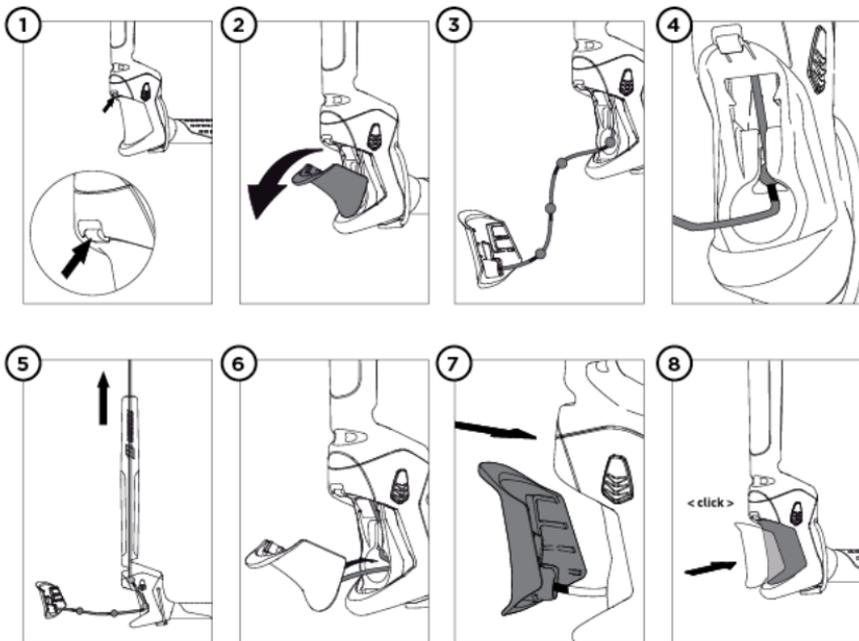
#### 4.8. INTEGRATED BACK LINE ADJUSTER

The Integrated Back Line Adjuster allows you to adjust the length of your back lines. Since the lines stretch, it is recommended to check and adjust the line length for correct bar trimming before each use. Please refer to section 6.1.2. for that purpose.

**4.8.1. USING THE INTEGRATED BACK LINE ADJUSTERS**

1. Remove the cover at the Back Lines Adjuster by pushing the small lever upwards.
2. Simultaneously pivot the cover out to the side.
3. Pull the leader line out of the bar end with the help of the cover. The knots can be distinguished by their colored markings.
4. Choose one of the four knots and place it in the housing.
5. Pull the leader line from above to make the knot slide in position.
6. Stow the rest of the leader line inside the bar. Make sure that the knot stayed in its correct position.
7. Close the Integrated Back Line Adjuster by first inserting the cover at the bar end and then pushing to close it.
8. You should hear a clear clicking sound when closing the cover.

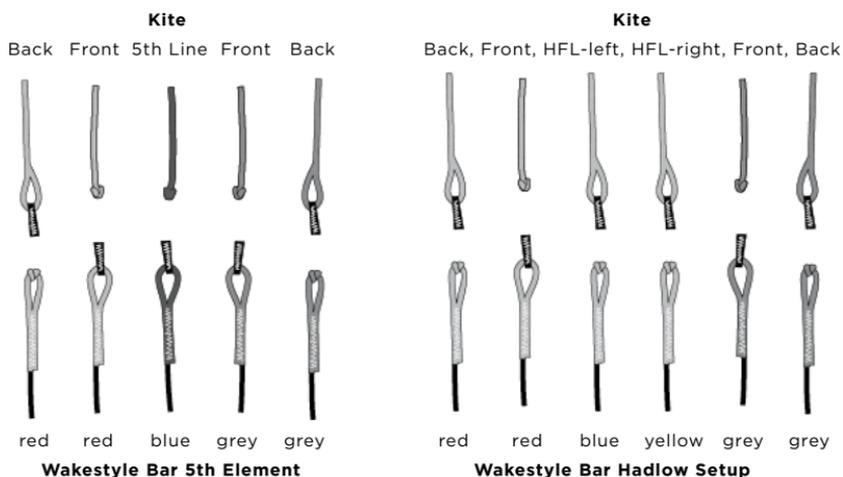
**IMPORTANT: Never ride without the cover. It prevents the knot of the leader line from slipping out of its housing.**



#### 4.9. KOOK PROOF LINE ATTACHMENT

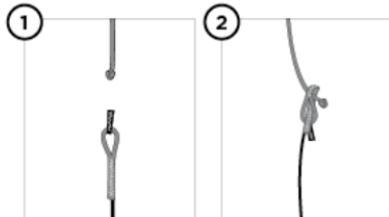
One of the most common mistakes in setting up a kite is getting the steering lines and the flying lines mixed up. In order to avoid this problem, North Kiteboarding has developed the Trust Bar and the Kook Proof System. The color code and the alternating position of the loops and knots permits only the right connection.

**IMPORTANT: the Kook Proof System works only in connection with a North Kiteboarding Kite.**



##### 4.9.1. ATTACHING THE BAR TO THE KITE

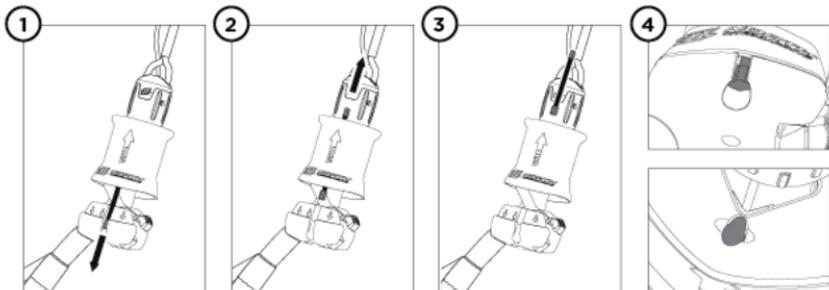
1. Lay the line ends of the bar to the corresponding pig tails of the kites.
2. Tie the loops with a lark's head to the knots at the opposite ends and pull them tight.



## 5. REPLACING PARTS

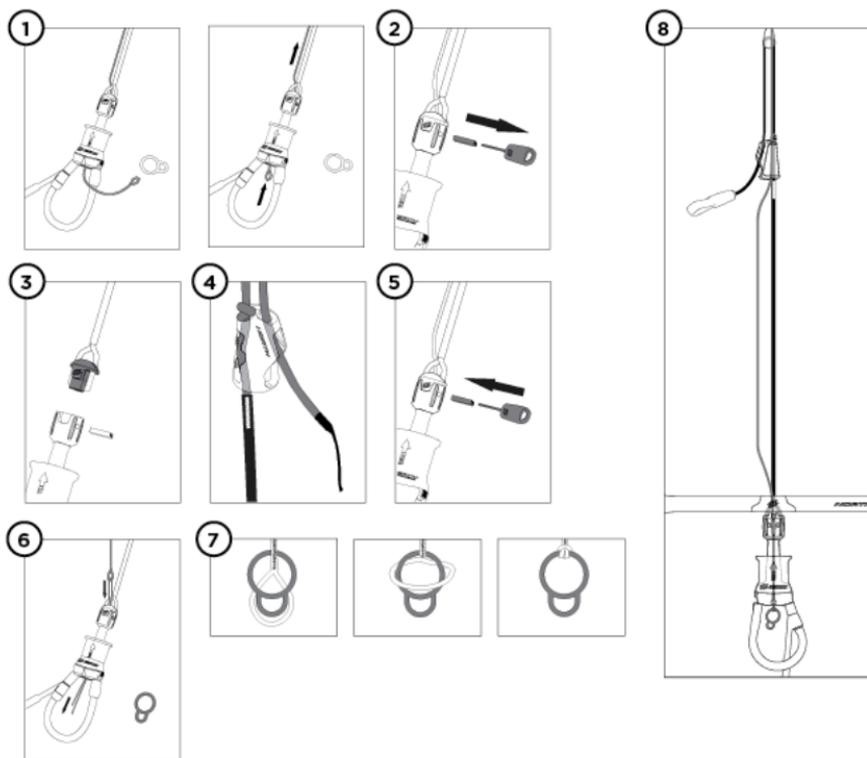
### 5.1. REPLACING THE RUBBER LINE

1. Remove the bottom side of rubber line from the groove with the help of a small screw driver.
2. Pull the rubber line up and out through the release grip of the Iron Heart.
3. Insert the new rubber line into the release grip from above. Place the bottom side back into the groove.
4. Make sure that both ends of the rubber line are in proper position in the grooves.



**5.2. REPLACING THE DEPOWER LINE**

1. Take the Suicide Ring from the safety line off, and pull it out of the Iron Heart.
2. Remove both Allen Screws with a 3/32 Allen wrench. (Any kind of fin-key or NKB Rocket Tool can be used.)
3. Remove the plastic head and take the depower line out of the Roto Head.
4. Change the faulty depower line. (Take note to guide the right lines to the Vario Cleat.)
5. Screw both Allen screws flush to the Roto Head.
6. Pull the safety line through the Iron Heart with help from a thin line or thin wire.
7. Fasten the Suicide Ring with a Lark knot on the safety line.
8. Please be aware that the safety line should be correctly placed within the Vario Cleat.

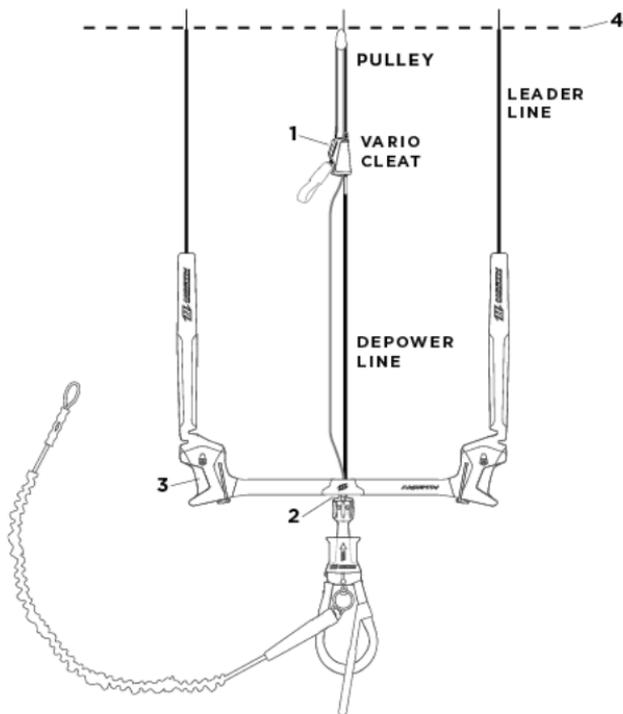


## 6. TIPS AND TRICKS

### 6.1. TRIM CHECK

#### 6.1.1. STANDARD SETUP OF THE BAR (UPON DELIVERY)

1. The leader lines must be attached to the third knot (red marking) within the bar ends.
2. Put the Iron Heart IV as close as possible to the bar.
3. The leader lines must be attached to the third knot (red marking) within the bar ends.
4. The attachment points of the Leader Lines should now be approximately



## 6.1.2. CHECKING LINE LENGTHS

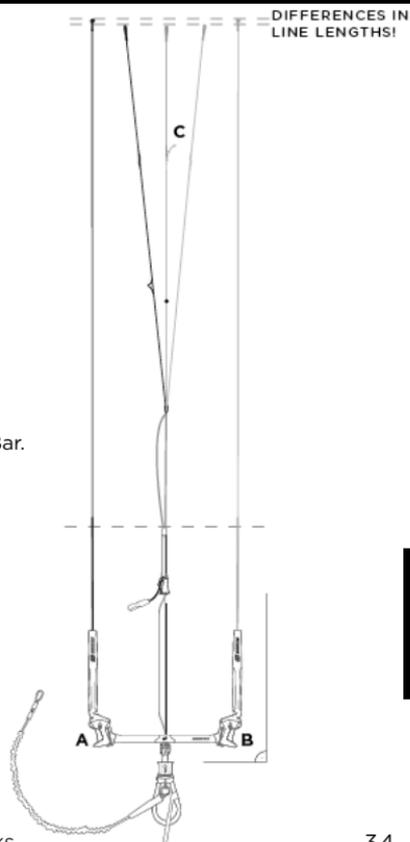
Due to general wear and tear of lines, it is recommended that one inspects the condition and lengths of their lines on a regular basis. This also ensures that the desired bar trimming is achieved before each session.

**IMPORTANT:** The line configuration of the Wakestyle Bar differs to that of the normal Trust Bar therefore, one will not be able to check the length of lines as one may be accustomed. It is recommended that one checks their line lengths between two people. As one person maintains the bar straight, the other can inspect the lines whilst applying tension to the lines. Follow the manual instructions to ensure optimum results when checking lines.

### Checking Line Lengths For Wakestyle Bar 5th Element Setup

1. Place the lines down carefully and separate them as you would normally.
2. Please make sure that your bar is currently set to the standard specifications.
3. The standard back lines should be somewhat longer than the front lines and the 5th-line.
4. Inspect the line lengths, which should include:
  - Both back lines = same length.
  - Both front lines and 5th line = same length.
5. Do a thorough check to insure that the orientation of the lines is at a right angle to the Bar.
6. Should the lengths of the lines vary from its standard setup, an adjustment of the lines can be done at points A, B and C.

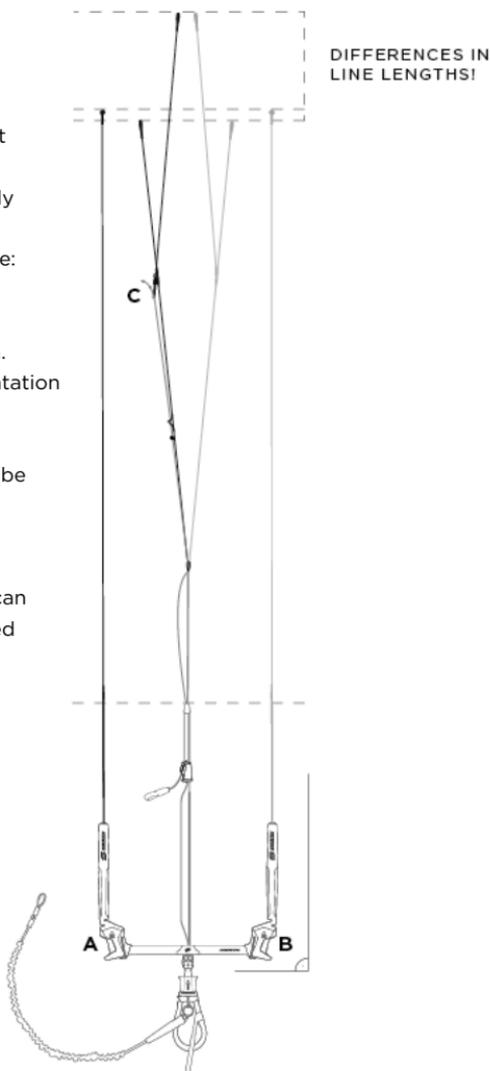
**IMPORTANT:** Small differences in line lengths can often be corrected by straightening the affected lines. Refer to chapter »Straightening of lines«



**6.1.3. CHECKING LINE LENGTHS FOR WAKESTYLE BAR HADLOW SETUP**

1. Place the lines down carefully and separate them as you would normally.
2. Please make sure that your bar is currently set to the standard specifications.
3. The standard back lines should be somewhat longer than the front lines and the 5th-line.  
**\*\*Both of the Hadlow front lines are significantly longer and must be checked separately.**
4. Inspect the line lengths, which should include:
  - Both back lines = same length.
  - Both front lines = same length.
  - Both Hadlow front-lines with the same length.
5. Do a thorough check to insure that the orientation of the lines is at a right angle to the Bar.
6. Should the lengths of the lines vary from its standard setup, an adjustment of the lines can be done at points A, B and C.

**IMPORTANT:** Small differences in line lengths can often be corrected by straightening the affected lines. Refer to chapter »Straightening of lines«



**6.1.4. STRETCHING THE FLYING LINES**

In case that one line has stretched more than another, the shorter line may be stretched in the following way to make up for the difference in length.

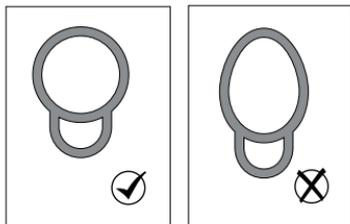
1. Tie the shorter line to a tree or similar solid object.
2. Stretch the line by pulling it until it has the same length as the remaining lines.



## 7. MAINTENANCE AND CARE

To ensure that your Trust Bar always functions properly, you must observe the following points:

- Always rinse the entire Trust Bar in clear water after use. Open the Iron Heart IV to clean it on the inside as well.
- Clean the Roto Head after each use by moving it around in clear water. This helps remove sand and dried up salt.
- Check the function of the Iron Heart IV each time before you take off and perform a test release! Make sure that there is no dirt, sand or other foreign bodies inside the Iron Heart IV. If this should be the case, clean the Iron Heart IV in water.
- If the Suicide Ring should be bent out of shape after a hard crash or other impact it must be immediately replaced. Do not attempt to bend the ring back into shape. If the ring loses its round shape it is no longer functional and may cause malfunction of the safety system.



- Never expose your Trust Bar to temperatures above 70°C. High temperatures can damage the coating of the flying lines. This can lead to a weakening or uncontrolled shrinkage of the lines.

Follow the instructions below for the regular inspection of the safety system's individual components. Check for proper function and signs of wear and tear. Replace any worn or damaged parts with original NKB spare parts following the instructions provided in the manual. All parts should be inspected thoroughly after a maximum of 30 days of usage on the water.

### **Injection Molded Plastic Parts**

Inspect the release grip carefully for

- cracks (risk of breakage)
- sharp edges caused by breakage (risk of injury and possible damage of the lines!!!)

Check the hole of the Iron Heart release grip. The shape or diameter of the hole should not be altered significantly.

**Metal Parts**

- The surfaces of Cr-Ni steel parts should not show any black discoloration (see also maintenance of Cr-Ni steels in the Iron heart Manual).
- Metal parts must not be bent out of shape (pins, center part).
- Moving and locking parts must not show excessive wear. Thoroughly check all parts for evidence of cracks and replace any parts that show the smallest evidence of cracks or fissures.

**Lines**

- The depower line consists of thousands of fine fibers. This line is exposed to friction that can cause these fibers to break. If a high number of these fine fibers are broken, the depower line's strength may be considerably reduced even though there is now visible reduction in the line's diameter.
- The leader lines are not exposed to friction and should therefore not show any fiber breakage. Wear and tear may occur, however, due to external influences.

**Chicken Loop - Chicken Dick**

- Check the sleeve for cracks and fissures.
- The sleeve must not show excessive wear in the area of the hook (excessive wear causes the sleeve to lose its rounded shape in this area).
- The seams must not be worn, torn or undone.
- Check the loop in the Dyneema line at the end of the chicken loop for excessive wear and evidence of broken fibers.

**Recommended intervals for inspection and maintenance depending on the rider's weight:**

- up to 75 kg body weight, after 30 days of usage
- above 75 kg body weight, after 20 days of usage

**Safety Leash**

- The shackle joint mechanism of the leash must not have excessive play.
- The Dyneema line that holds the pin must be checked for fiber breakage.
- The sleeve must not show any signs of cracks.
- The plastic sleeve above the release grip must not be bent or cracked.
- The seams must not be undone, torn or damaged by abrasion.

## 8. WARRANTY POLICY

- North Kiteboarding Warrants this Product to be free of Major defects in material or workmanship to the original purchaser for a period of six months from the original date of purchase. This warranty is subject to the following limitations:

The warranty is valid only when the product is used for Kiteboarding on water and does not cover products used in rental or teaching operations.

- North Kiteboarding will make the final warranty determination, which may require inspection and/or photos of the equipment, which clearly show the defect(s). If necessary, this information must be sent to the North Kiteboarding distributor in your country, postage prepaid.

- If a product is deemed to be defective by North Kiteboarding, the warranty covers the repair or replacement of the defective product only.

- North Kiteboarding will not be responsible for any costs, losses or damages incurred as a result of loss of use of this product. The warranty does not cover damage caused by misuse, abuse, neglect or normal wear and tear including but not limited to, rigging with other than North Kiteboarding components, damage due to excessive sun exposure, damage caused by improper handling or storage, damage caused by use in the waves or shore break and damage caused by anything other than defects in material and workmanship.

- This warranty is voided if any unauthorized repair, change or modification has been made to any part of the equipment.

The warranty for any repaired or replaced equipment is good from the date of the original purchase only.

The original purchase receipt must accompany all warranty claims.

The name of the retailer and date of purchase must be clear and legible.

There are no warranties that extend beyond the warranty specified herein.

### **WARRANTY CLAIMS**

- Warranty claims must be processed and be issued a return authorization prior to shipping to North.

