



TRUST BAR

User Manual

TIPS & TRICKS

WATCH OUT FOR USEFUL TIPS & TRICKS REGARDING OUR PRODUCTS UNDER WWW.DUOTONESPORTS.COM IN THE FOLLOWING CATEGORY: HELP.



CONTENT

1.	RELEASE OF LIABILITY	4
2.	SAFETY AND PRECAUTIONS	6
2.1.	Kiteboarding Safety	6
2.2.	Dangers from the Kite	7
2.3.	Dangers from Kite Lines	7
2.4.	Dangers from the Kiteboard	8
2.5.	Dangers to uninvolved third parties	8
2.6.	Weather related Dangers	8
3.	SYSTEM	10
3.1.	Trust Bar	10
3.2.	Iron Heart IV	13
4.	FUNCTIONS	14
4.1.	Safety Leash	13
4.2.	Safety Modes	16
4.3.	Reassembling the Iron Heart IV After Release	20
4.4.	Roto Head	21
4.5.	Flip Flop Chicken Dig	22
4.6.	Vario Cleat	22
4.7.	Sliding Stopper	25
4.8.	Flip Flop Function	26
4.9.	Integrated Back Line Adjuster	27
4.10.	Kook Proof Line Attachment	29
5.	REPLACING PARTS	30
5.1.	Replacing the Rubber Line	30
5.2.	Replacing the Depower Line	31
5.3.	Replacing the Chicken Loop / Chicken Dick	32
6.	TIPS AND TRICKS	33
6.1.	Trim Check	33
7.	MAINTENANCE AND CARE	36
8.	WARRANTY POLICY	38

1. RELEASE OF LIABILITY

RELEASE OF LIABILITY, CLAIM WAIVER, ASSUMPTION OF RISK

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

ASSUMPTION OF RISK

Use of the DUOTONE 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 DUOTONE 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 DUOTONE 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 GmbH and all related parties resulting from use of the DUOTONE product and any of its components.

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

2. SAFETY AND PRECAUTIONS

DUOTONE 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 DUOTONE 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 metre 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 kites must be secured with sand or heavy objects. A kite 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 while 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 kite, 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!

BFT	M/S	KM/H	MPH	KNOTS	DESIGNATION
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	Light 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

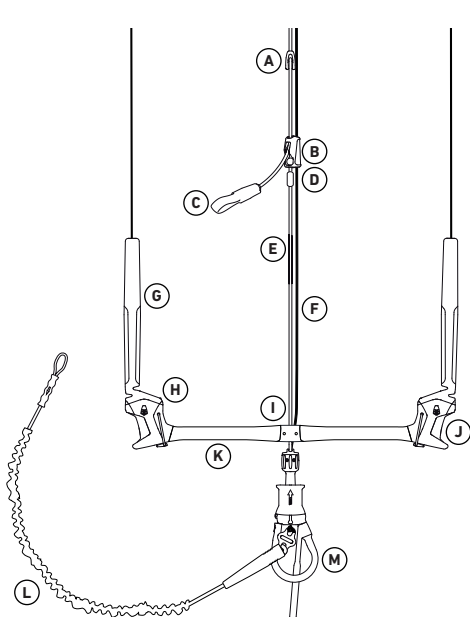
3.1. TRUST BAR

4
control

5th
element
UPGRADE KIT

The Trust Bar comes with 4 lines as standard. Choose the 5th Element upgrade kit (not included in the Trust Bar package) to convert the 4 line Trust Bar into a 5th Element Bar. Find in-detail-videos about the conversion on our website.

IMPORTANT: THE TRUST BAR IS DELIVERED WITHOUT A CHICKEN LOOP OR SAFETY LEASH. DEPENDING ON THE USE AND NEEDS OF THE RIDER, THREE DIFFERENT IRON HEART KITS ARE AVAILABLE AND MUST BE ORDERED SEPARATELY IN ORDER TO ENSURE FULL FUNCTIONALITY OF THE TRUST BAR.



- (A) Pulley
- (B) Vario Cleat
- (C) Hopper
- (D) Sliding Stopper
- (E) Depower Line
- (F) Red Safety Line
- (G) Integrated EVA Floater
- (H) Flip Flop Function
- (I) Center Part Insert
- (J) Integrated Backline Adjuster
- (K) Sticky Bar Grip
- (L) Safety Leash (not included in the Trust Bar package)
- (M) Iron Heart IV

Specifications in accordance with the

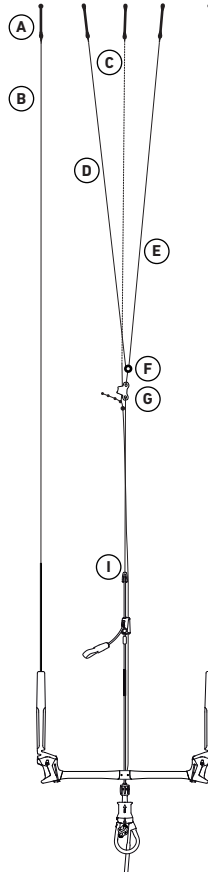
- French norm NFS 52-503
- Manufacturer: DUOTONE
- Usage: kitesurf / snowkite
- Compatible kites: all Kites produced by DUOTONE and North Kiteboarding till 2018
- Technology: release grip to be pushed away from the body
- Rider's weight max. / min.: 120 kg / 35 kg

3.1.1. TRUST BAR 5TH ELEMENT

TO CONVERT THE CLICK BAR QUAD CONTROL INTO A CLICK BAR 5TH ELEMENT, YOU MUST PURCHASE THE 5TH ELEMENT UPGRADE KIT FIRST.



- (A) Pigtails
- (B) Back Line
- (C) 5th Line (red & blue Safety Line)
- (D) Left Front Line (Upgrade Kit Line)
- (E) Right Front Line
- (F) 9 mm Metal Ring
- (G) Stainless Steel Safety Pulley
- (H) Red Safety Line
- (I) Strong Middle Line

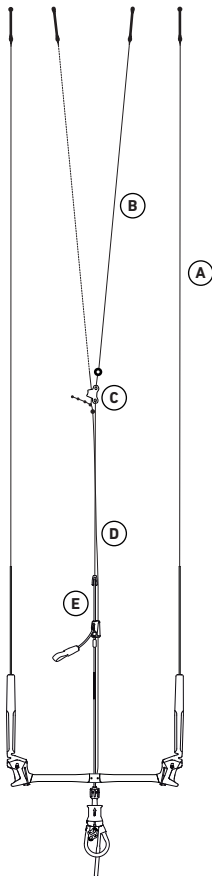


3.1.2. TRUST BAR QUAD CONTROL

4

control

- (A) Back Lines
- (B) Front Lines
- (C) Stainless Steel Safety Pulley
- (D) Red Safety Line
- (E) Strong Middle Line

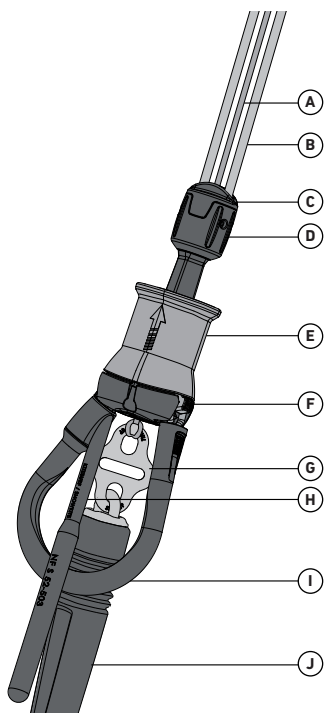


3.2. IRON HEART IV

The Iron Heart IV offers a variety of functions that make kiting easier and safer. In order to avoid possible mistakes in using the new system, you should familiarize yourself with all its functions and proper usage by carefully reading the manual.

IMPORTANT: ALWAYS MAKE SURE THAT YOUR IRON HEART IV FUNCTIONS PROPERLY AND ALWAYS PERFORM A TEST RELEASE BEFORE YOU START KITING! CHECK IF THE IRON HEART IV IS CLEAN AND RINSE IT CAREFULLY WITH WATER, IN ORDER TO REMOVE ANY DIRT OR OTHER ITEMS.

- Ⓐ Safety Line
- Ⓑ Depower Line
- Ⓒ Plastic Head
- Ⓓ Roto Head
- Ⓔ Release Handle
- Ⓕ Release Pin
- Ⓖ Suicide Ring
- Ⓗ Chicken Dig
- Ⓘ Chicken Loop
- Ⓝ Safety Leash



4. FUNCTIONS

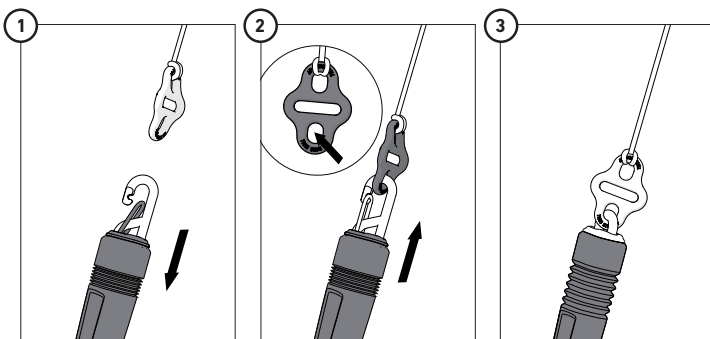
4.1. SAFETY LEASH

The safety leash has a specially developed carabiner that is covered with a EVA cover. This sheath prevents injuries and keeps the carabiner from getting accidentally caught in any lines or other objects. Furthermore, the safety system at the other end of the leash allows you to completely separate yourself from the kite in an emergency situation.

IMPORTANT: THE SAFETY LEASH MUST BE TIED TO THE SUICIDE RING BEFORE YOU LAUNCH THE KITE. ALWAYS REMEMBER THAT YOUR SAFETY LEASH IS THE LAST CONNECTION BETWEEN YOU AND YOUR KITE. ONLY RELEASE IT IN A CASE OF EXTREME EMERGENCY AND REMEMBER THAT AN UNCONTROLLED KITE IS A GREAT DANGER FOR OTHER INDIVIDUALS ON LAND AND ON THE WATER.

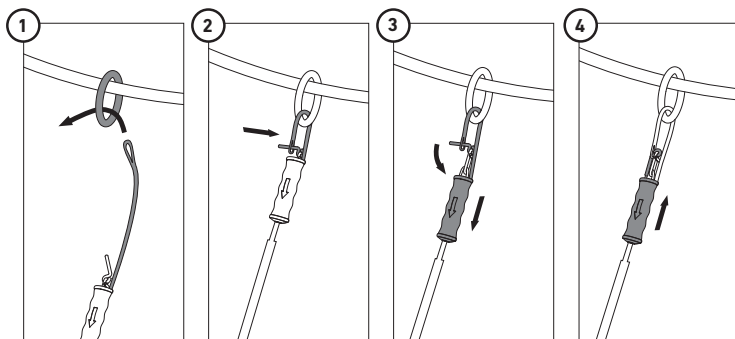
4.1.1. ATTACHING THE SAFETY LEASH TO THE IRON HEART IV

1. Pull back the EVA cover and open the carabiner.
2. Hook the carabiner into the small eye of the Suicide Rings at your Iron Heart IV.
3. Push the EVA cover back up in order to safely cover the carabiner.



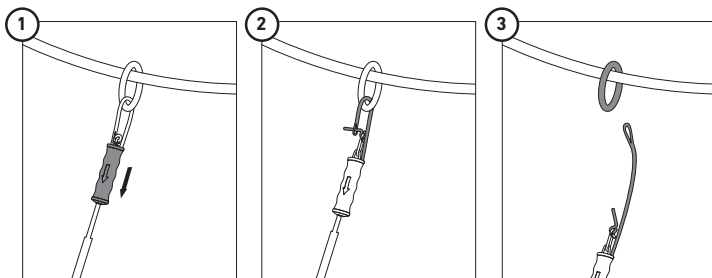
4.1.2. ATTACHING THE SAFETY LEASH TO THE HARNESS

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.



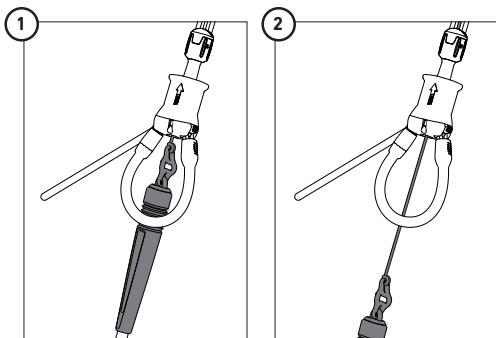
4.2. SAFETY MODES

CAUTION: ALWAYS CHECK THE FUNCTION OF YOUR IRON HEART IV AND TEST THE QUICK RELEASE BEFORE LAUNCHING. MAKE SURE THAT NO DIRT, SAND OR OTHER RESIDUES ARE INSIDE THE IRON HEART AS THIS WILL GREATLY AFFECT ITS PERFORMANCE. IF THERE ARE ANY OBSTRUCTIONS YOU MUST CLEAN THE IRON HEART IV THOROUGHLY WITH SOME WATER BEFORE LAUNCHING.

4.2.1. STANDARD SAFETY MODE

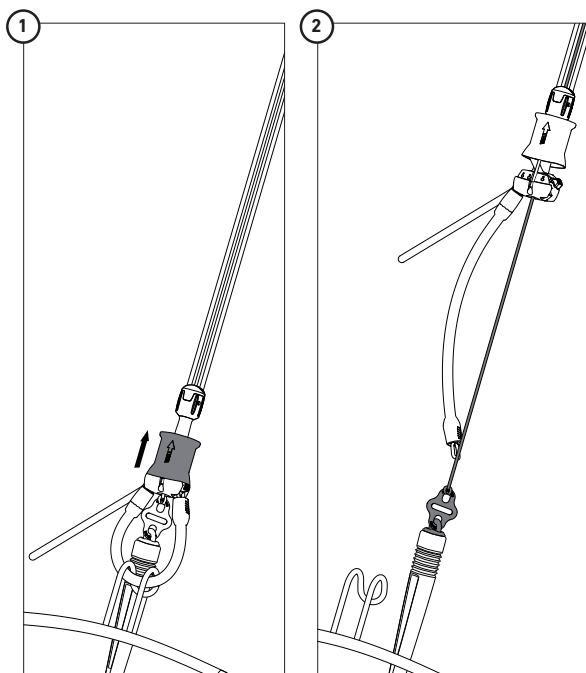
4.2.1.1. SETTING UP THE STANDARD SAFETY MODE

1. The metal ring (Suicide Ring III) 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 IV 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

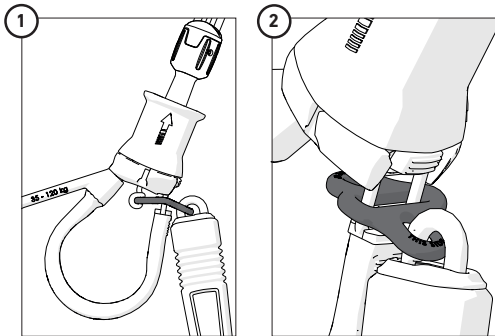
IMPORTANT: DUOTONE RECOMMENDS USING ONLY THE STANDARD SAFETY MODE BECAUSE IT PERMITS COMPLETELY DEPOWERING THE KITE. DUOTONE DOES NOT RECOMMEND USING THE SUICIDE MODE AT ANY TIME SINCE THIS MODE MAKES IT IMPOSSIBLE TO COMPLETELY DEPOWER THE KITE IN CERTAIN SITUATIONS. THE SUICIDE MODE MAY ONLY BE USED 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 III) at the Iron Heart IV is attached to the red safety line, and the safety leash is hooked into the small loop of the Suicide Ring. Additionally, the Chicken Loop runs straight down the oval middle loop 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.

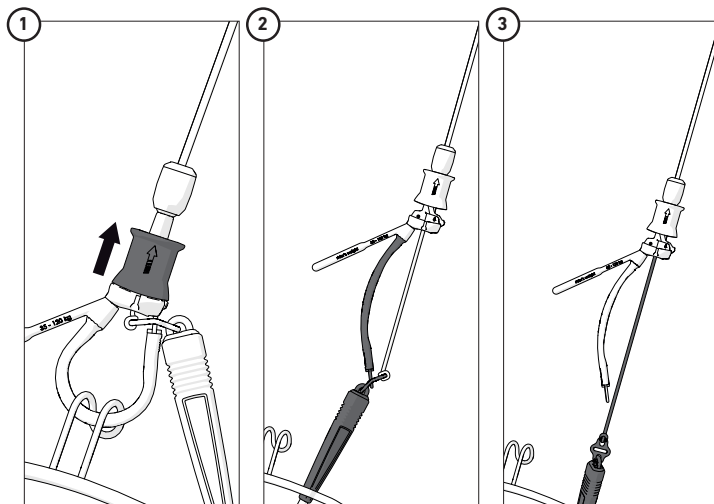
IMPORTANT: YOU MUST BE AWARE OF THE FACT THAT IN SUCH A SITUATION, THE IRON HEART IS OUT OF YOUR REACH AND CAN THEREFORE NOT BE RELEASED.

THE FRONT PART OF THE SUICIDE RING IS CURVED SLIGHTLY DOWNWARDS. WHEN USING THE SUICIDE FEATURE, PAY ATTENTION THAT THE CURVE REMAINS POINTING DOWNWARDS AND THAT THE SAFETY LINE RUNS PROPERLY THROUGH THE SUICIDE RING III.

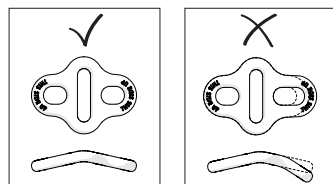


4.2.2.2. RELEASING IN SUICIDE MODE WHILE HOOKED IN

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 III automatically comes off the chicken loop.
3. The bar and Iron Heart IV will slide along the red safety line towards the kite. The kite comes down safely and depowers on the red safety line.



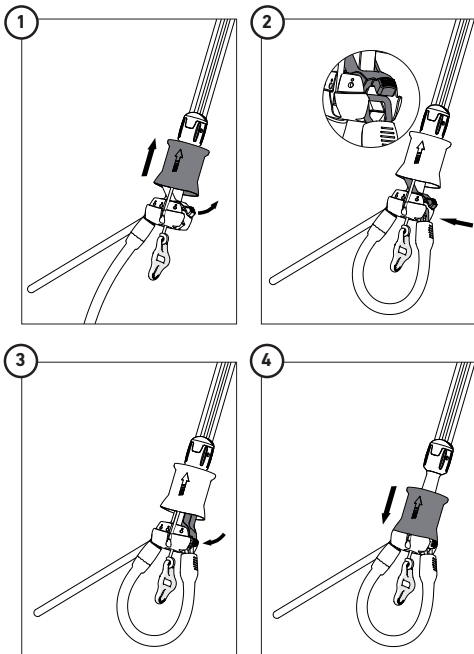
CAUTION: IN THE CASE THAT YOUR SUICIDE RING III BECOMES IMPAIRED DUE TO A HARD CRASH OR SOMETHING SIMILAR, IT MUST BE REPLACED IMMEDIATELY. DO NOT TRY AND BEND IT BACK INTO SHAPE. A DEFORMED RING CAN CAUSE FAILURE.



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.



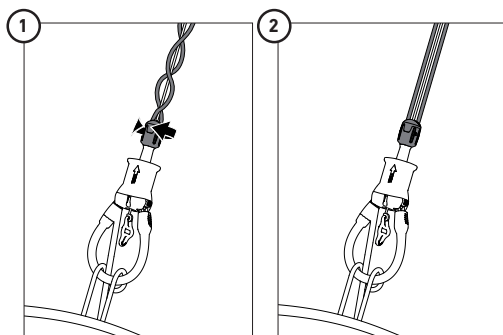
4.4. ROTO HEAD

The Roto Head permits you to untangle the lines after a rotation jump or a kitemloop 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 Heat IV is able to resume its proper function.



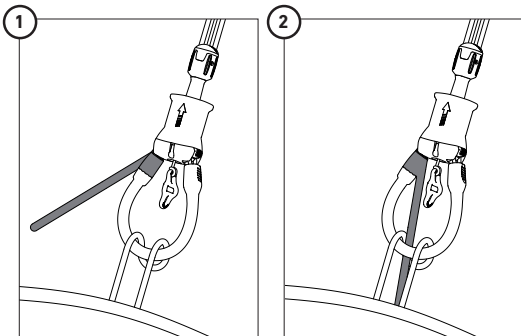
4.5. FLIP FLOP CHICKEN DIG

The new Chicken Dig 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 Dig 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 DIG

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

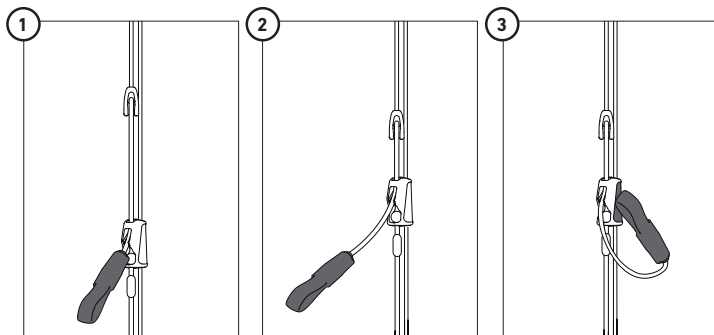


4.6. VARIO CLEAT

The Vario Cleat is a multi-functional depower adjuster. The Vario Cleat allows you to adjust the power of the kite during the flight. In order to assure optimum access to the Vario Cleat it can be easily adjusted according to the rider's body size.

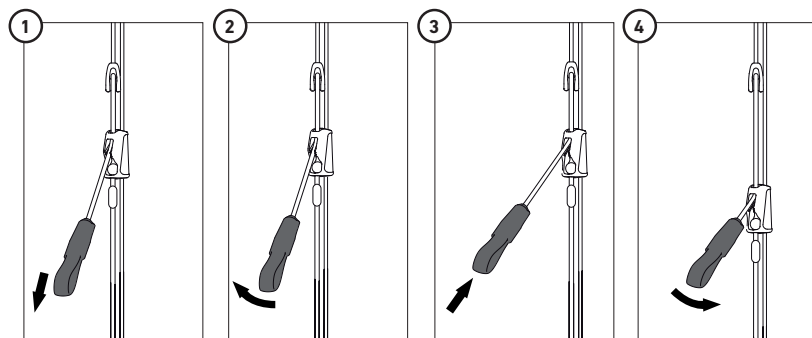
4.6.1. DEPOWER

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 the 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.

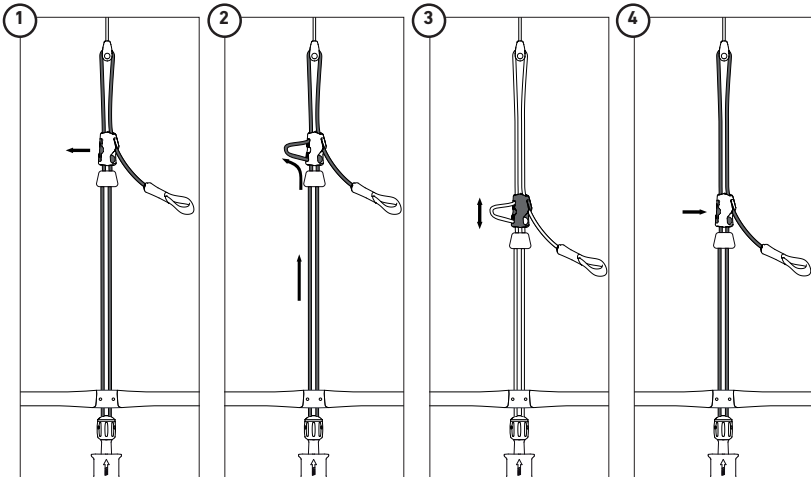


4.6.3. POSITIONING THE VARIO CLEAT

The Vario Cleat can be adjusted to the rider's body size or personal preferences. This makes the adjuster equally easy to reach for both tall and short riders.

IMPORTANT: THE POSITION OF THE VARIO CLEAT MAY ONLY BE CHANGED ON LAND. ALWAYS CHECK IF YOU CAN EASILY REACH THE VARIO CLEAT EACH TIME BEFORE YOU TAKE OFF.

1. Pull the depower line out at the backside of the Vario Cleat.
2. Pull some of the grey depower line through the Vario Cleat.
3. Now push the Vario Cleat up or down, according to your preferences.
(This decreases or increases the depower throw of the bar. The depower throw of the adjuster decreases or increases accordingly.)
4. After completing the desired adjustments, the depower line must be returned to its original position.



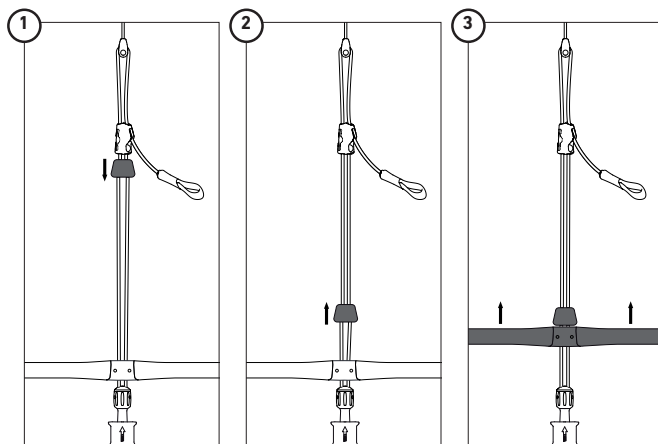
4.7. SLIDING STOPPER

The Sliding Stopper allows you to quickly set your depower throw on the water. You can rest the bar on the Sliding Stopper to relieve your arms while riding.

IMPORTANT: THE SLIDING STOPPER SHOULD ONLY BE USED IN SAFE KITING CONDITIONS, SINCE IT REDUCES THE KITE'S DEPOWER ABILITIES. BEFORE YOU RETURN TO THE BEACH YOU MUST SET THE SLIDING STOPPER TO THE MAXIMUM DISTANCE FROM YOUR BODY!

4.7.1. USING THE SLIDING STOPPER

1. To bring the sliding stopper down, simply grab the stopper and pull it towards your body.
2. To bring the sliding stopper back up, grab the stopper and push it away from your body.
3. By pushing hard against the sliding stopper with the bar, you can also move it back up.



4.8. FLIP FLOP FUNCTION

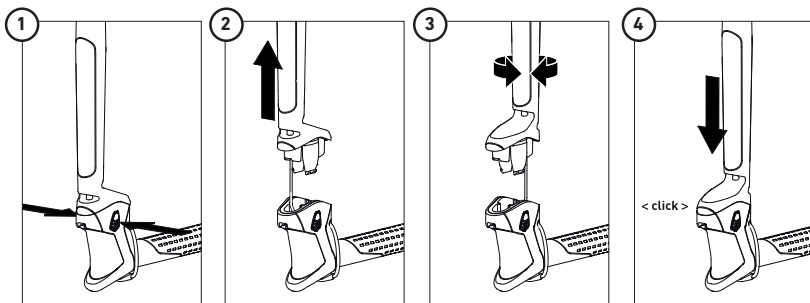
The Flip Flop Function allows you to individually adjust the bar width.

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 kites, freeriding or wave riding.

4.8.1. 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.

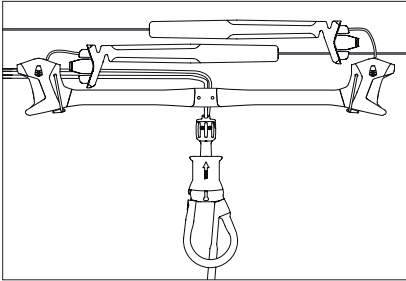
It helps to keep the steering line taut during this process.



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.

4.8.2. WRAPPING THE FLYING LINES

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



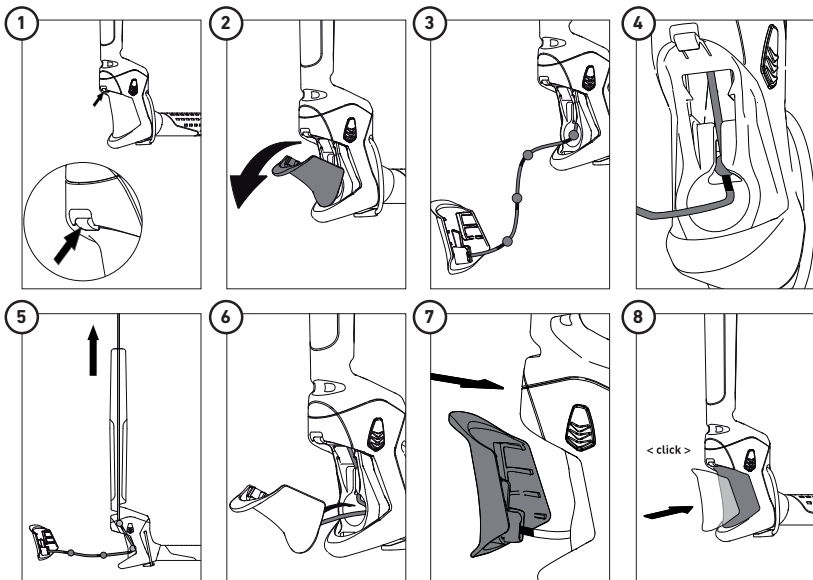
4.9. INTEGRATED BACK LINE ADJUSTER

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.

4.9.1. 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.

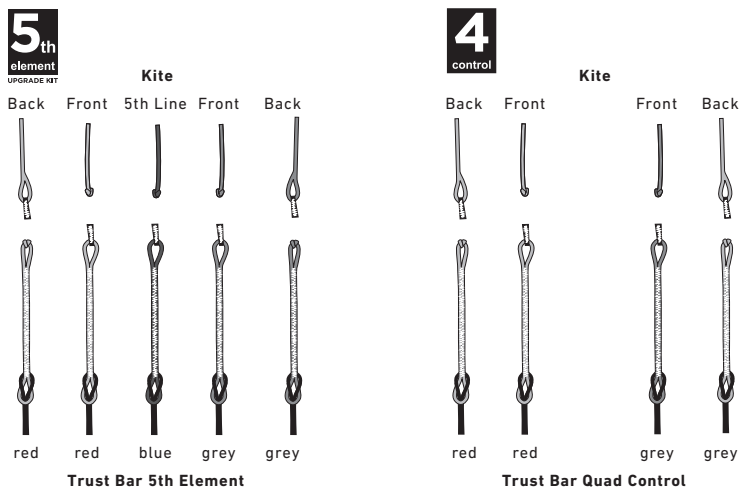
IMPORTANT: NEVER RIDE WITHOUT THE COVER. IT PREVENTS THE KNOT OF THE LEADER LINE FROM SLIPPING OUT OF ITS HOUSING.



4.10. KOOK-PROOF LINE ATTACHMENT

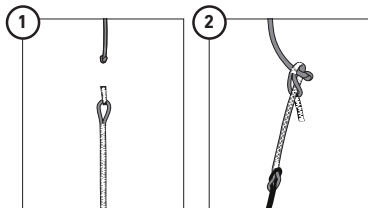
One of the most common mistakes in setting up a kite is getting the steering lines and the flying lines mixed up. In order to avoid this problem, DUOTONE has developed the Trust Bar and the Kook-Proof-System. The color code and the alternating position of the loops and knots permits only the right connection.

IMPORTANT: THE KOOK-PROOF-SYSTEM WORKS ONLY IN CONNECTION WITH A NORTH KITEBOARDING KITE TILL 2018 AND ALL DUOTONE KITES.



4.10.1. ATTACHING THE BAR TO THE KITE

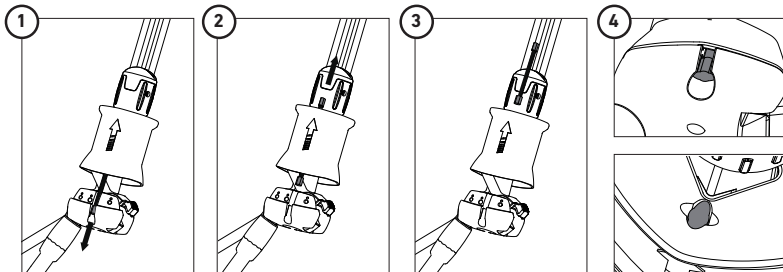
1. Lay the line ends of the bar to the corresponding pig tails of the kites.
2. Tie the loops with a lark's head to the knots at the opposite ends and pull them tight.



5. REPLACING PARTS

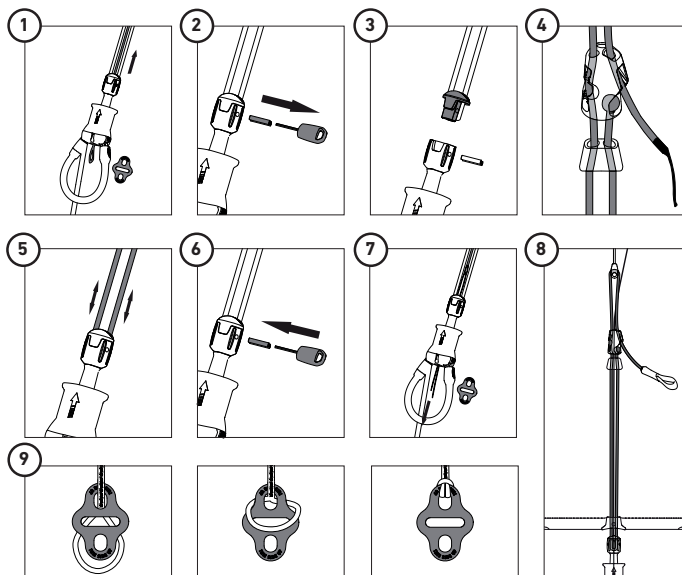
5.1. REPLACING THE RUBBER LINE

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

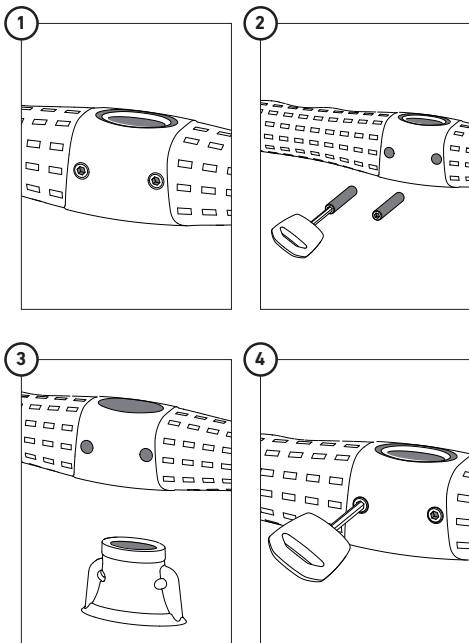
1. Remove the Suicide Ring from the safety line and pull the line out of the Iron Heart.
2. Remove both headless screws with a 3/32 Allen key. Any fin key or the DUOTONE Rocket Tool can be used for this purpose.
3. Remove the Plastic Head with the depower line from the Roto Head.
4. Replace the damaged depower line. Make sure that the line is inserted correctly at the Sliding Stopper and the Vario Cleat.
5. Move the inserted depower line back and forth before replacing the headless screws.
6. Insert both screws and tighten them until they are flush with the Rotohead.
7. Pull the safety line through the Iron Heart with a thin string or wire.
8. Make sure that the safety line runs correctly through the Vario Cleat and the Sliding Stopper. The safety line and the depower line must not cross each other.
9. Tie the Suicide Ring III to the safety line with a Lark's head.



5.3. REPLACING THE CENTER PART INSERT

Should the center part insert be heavily worn, it can easily be replaced.

1. Remove the depower line as described in section 5.2.
2. Remove both headless screws with a 3/32 Allen key. Any fin key or the DUOTONE Rocket Tool can be used for this purpose.
3. Now you can remove the old insert by pushing it downwards and replace it by a new one.
4. Insert both screws and tighten them until they are flush with the bar.

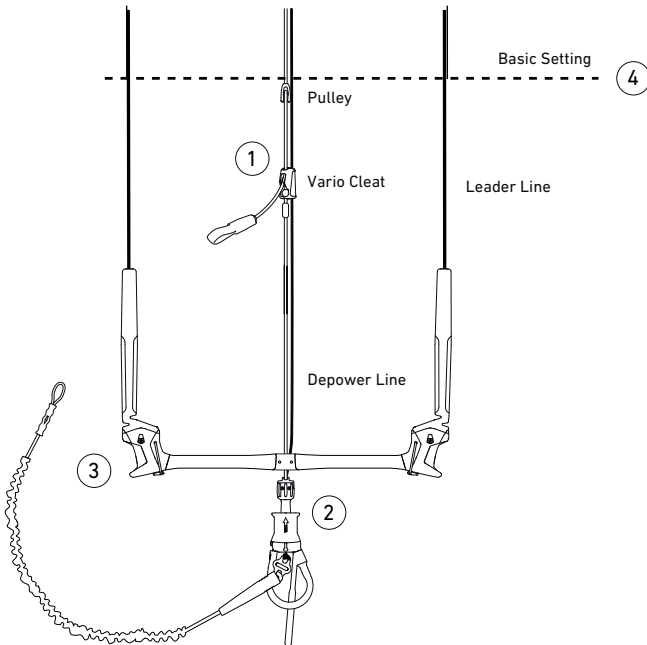


6. TIPS AND TRICKS

6.1. TRIM CHECK

6.1.1. STANDARD SETUP OF THE BAR (UPON DELIVERY)

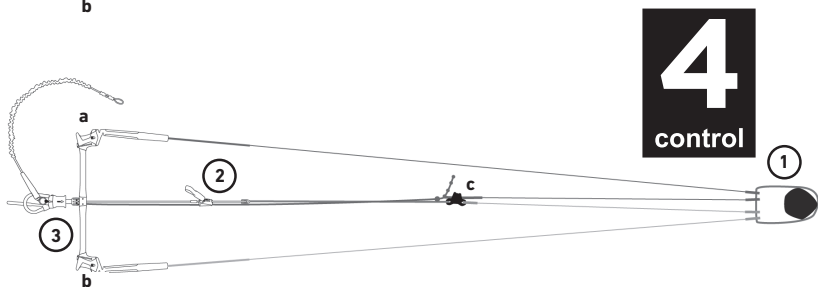
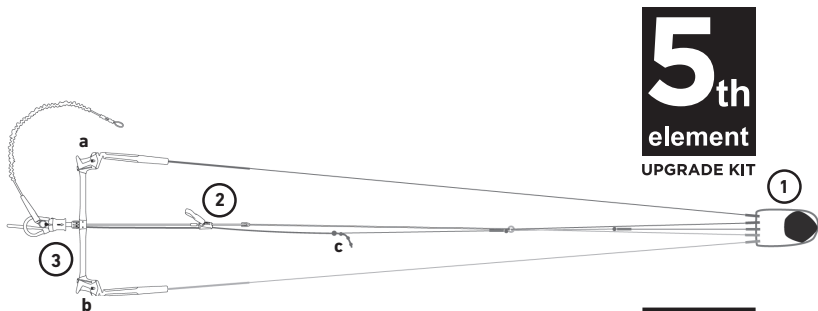
1. The leader lines must be attached to the third knot (red marking) within the bar ends.
2. Put the Iron Heart IV as close as possible to the bar.
3. The leader lines must be attached to the third knot (red marking) within the bar ends.
4. The attachment points of the Leader Lines should now be approximately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



6.1.2. CHECKING LINE LENGTH

Since the lines stretch over time it is recommended to check the line length before each use and to adjust the lines for a proper trim of the bar.

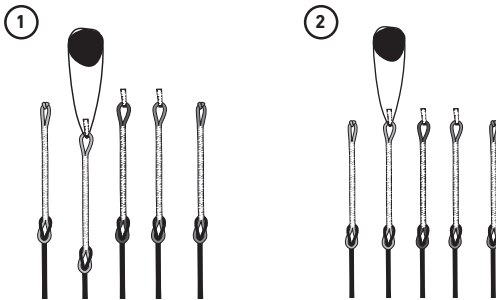
1. Carefully lay out the lines and separate them. Thread the line ends on a string and tie it to a tree or similar object.
2. Make sure that your bar is in the standard setup shown above.
3. Take the bar and pull the lines taut. The Iron Heart must touch the bar.
4. Check the length of the lines. All lines should have the same length.
5. If this should not be the case, you can adjust the length of the lines at the points a, b and c.



6.1.3. STRETCHING THE FLYING LINES

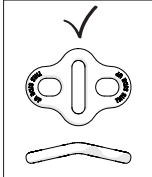
In case that one line has stretched more than another, the shorter line may be stretched in the following way to make up for the difference in length.

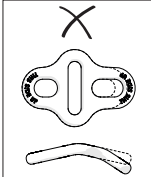
1. Tie the shorter line to a tree or similar solid object.
2. Stretch the line by pulling it until it has the same length as the remaining lines.



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 DUOTONE 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 Dig

- 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

- DUOTONE 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.
- DUOTONE 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 DUOTONE distributor in your country, postage prepaid.
- If a product is deemed to be defective by DUOTONE, the warranty covers the repair or replacement of the defective product only.
- DUOTONE 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 DUOTONE 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 DUOTONE.

