

# ACE 2018

COMPLETE USER MANUAL

## TIPS & TRICKS

**WATCH OUT FOR USEFUL TIPS & TRICKS REGARDING OUR PRODUCTS  
UNDER [WWW.NORTHKITEBOARDING.COM](http://WWW.NORTHKITEBOARDING.COM) IN THE FOLLOWING CATEGORY: HELP.**



# 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 relaunch 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, waterskiers 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	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. RIGGING THE KITE

### 3.1. OVERVIEW OF THE KITE

- |                         |                   |                          |                         |
|-------------------------|-------------------|--------------------------|-------------------------|
| <b>(A)</b> Leading Edge | <b>(C)</b> Canopy | <b>(E)</b> Air Outlet    | <b>(G)</b> Back Pigtail |
| <b>(B)</b> Air Intake   | <b>(D)</b> Tip    | <b>(F)</b> Front Pigtail |                         |

Picture **1** page 13

### 3.2. ACE LINE SETUP

Picture **2** page 14

### 3.3. SECURING THE KITE ON THE BEACH

When the kite is not in use it has to be secured so it won't fly away.

1. Lay the kite down in areas without any sharp objects.
2. Unpack your kite downwind.

Picture **3** page 15

3. Weigh the kite down with sand or any other soft and heavy object.

## 4. ATTACHING THE LINES

### 4.1. KOOK-PROOF-SYSTEM

One of the most common mistakes in Kiteboarding is the mix up of steering and flying lines. Therefore North Kiteboarding has developed the Kook-Proof-System which prevents this mistake. The system works in conjunction with the Trustbar Quad Control or Trustbar 5th Element.

**KOOK-PROOF-SYSTEM:** The line with the knot has to be drawn through the correct line with the larks head loop.



1. Attach the knot of the steering line to the larks head loop at the end of the tip.

Picture **4** *page 16*

2. Repeat this procedure for the steering lines. Here, the knot is located at the pigtail attached to the kite.

Picture **5** *page 16*

Repeat this procedure for the other side of the kite.

Pay attention that the red lines from the bar are being attached to the red attachment points on the kite. Works the same way with the grey lines. The blue fifth line has to be connected to the blue noseline attachment in the centre of the kite.

## 5. PACKING UP THE KITE

1. Empty the air from the kite using the air outlets.

3. Roll the kite up from one wingtip to the other.

4. Fold the kite in the middle and store it in the kitebag.

Pictures **6** + **7** *page 16*

## 6. HANDLING

### **HANDLE WITH CARE !!!**

- If the ACE foil kite crashes at full speed onto the Leading Edge, irreparable damage will be done to the entire inside of the kite.
- If a wind filled ACE foil kite slides on a hard surface through the wind window, the cloth will be damaged immediately due to the hard profile sticks at the Leading Edge.

### **IMPORTANT: IF THE KITE HAS BEEN PULLED THROUGH THE WATER, ALWAYS LET ALL THE WATER DRIP OUT FROM INSIDE THE KITE BEFORE RELAUNCHING**

- The ACE foil kite can fill up with water very easily when pulled through the water. Due to the weight of the water, the construction of the kite can be damaged.

## 7. KITE CARE

- Avoid bringing the kite into contact with sharp-edged rocks, thorns, wood and other objects that may damage, puncture or tear the cloth.
- Do not expose the kite to excessive sun as it ages the material unnecessarily.
- Avoid leaving your kite on the beach for extended lengths of time as small wind movements may quickly cause wear and tear to the cloth.
- Try to pack up the kite without cuttlings into the kitebag to avoid tearing the canopy.
- A coating that results from using the kite in salt water will not damage the kite. However, rinsing in fresh water and drying doesn't hurt.
- Be sure that the kite has dried completely before packing it up. Otherwise changes of color or mildew could occur.  
Such bleeding is not covered under the North Kiteboarding warranty.
- Do not dry the kite in direct sun!

## 8. REPAIRING

### 8.1. CHANGING LINES

Exchanging of lines on a foil kite is complicated, which is why changes or repairs to the lines is only possible at one a special service centres

### 8.2. REPAIRING THE KITE

We highly recommend that the kite is repaired by specially trained people at a service centre. This will ensure that the geometry of the kite is not influenced in a negative way.

### 8.3. SERVICE CENTER

Europe: ADVANCE France SARL, Zone Industrielle, F 68830 Oderen, France,  
service@advance.eu

Switzerland & Overseas: ADVANCE Thun AG, Uttigenstrasse 87, CH 3600 Thun,  
Schweiz, info@advance.ch

South America: Aeroatelier, Aeroclub la Cumbre, 5178 La Cumbre/Sierras de Cordoba,  
Argentina, andy@aeroatelier.com

## 9. WINDSPEED AND KITE SIZE

Only a few knots of wind speed is required to fly this kite. Kiteboarding, however, generally requires more wind, depending not only on rider ability but also the size of kite, rider and board.

The following table demonstrates the approximate average wind speeds in which kites of different sizes can be used by kiteboarders of various skill levels and weights. Riders who are significantly heavier or lighter should use, for a given wind speed range, kites that are one size bigger or smaller respectively. These represent a rough guide only.

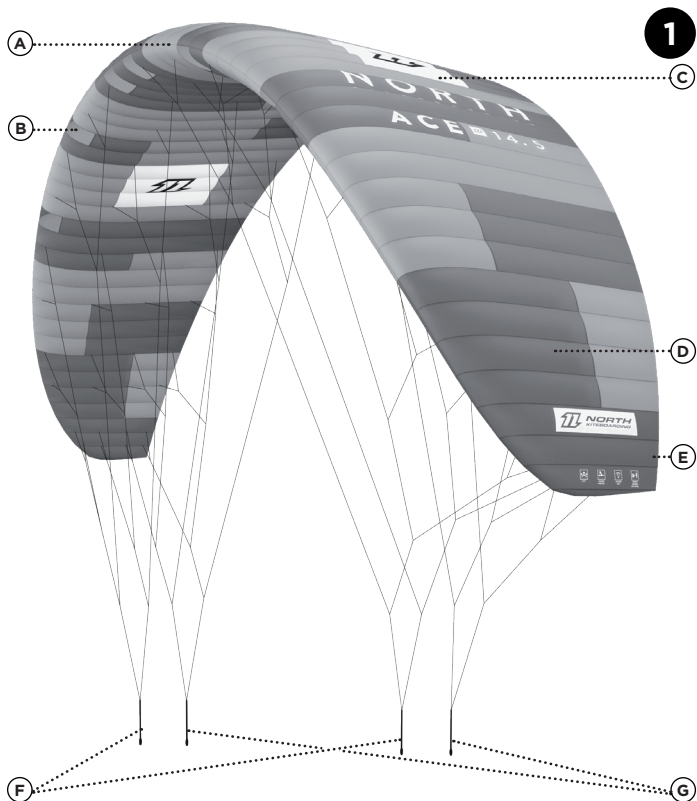
SIZE	WIND RANGE [KN]	LINE LENGTH RECOMMENDATION [M]
8.5	15 - 25	18 - 24
11.5	10 - 20	18 - 24
14.5	8 - 18	18 - 24
17.5	7 - 15	18 - 24

## 10. 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 Kiteboarding.



**A** Leading Edge

**B** Air Intake

**C** Canopy

**D** Tip

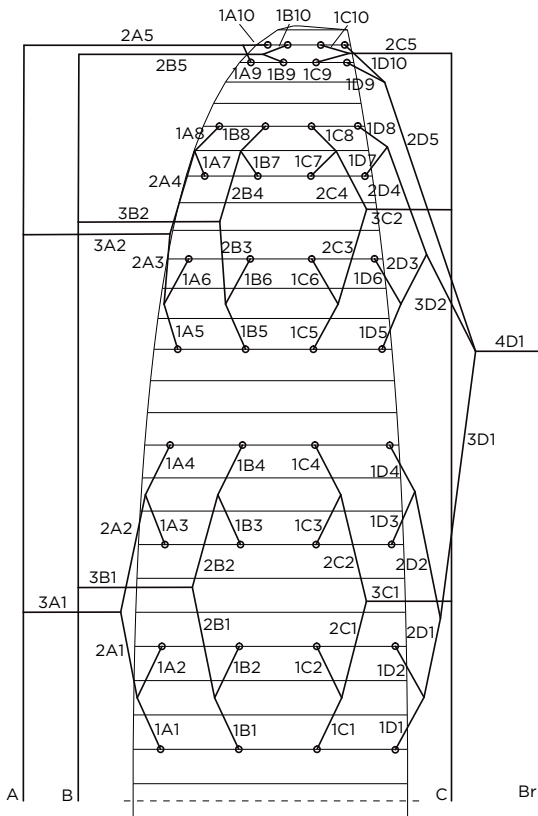
**E** Air Outlet

**F** Front Pigtail

**G** Back Pigtail

2

# ACE LINE SETUP



3

