



USER MANUAL
SOLID 08
ENGLISH

Thank you,

for choosing a North Kiteboarding product.

Before you use your kite, please read this manual attentively.

Apart from all the important information on setting up and packing the kite, we have compiled comprehensive safety information and useful tips for your first steps with the Solid in this manual.

We hope that you will enjoy your kite for a long time. Kiteboarding is an incredibly fascinating sport. If you wish to know more about NORTH KITEBOARDING and the latest products, please visit our homepage at: <http://www.northkites.com> or our special snowkite site at <http://www.north-snowkites.com>

Thank you!

Your North Kiteboarding Team

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WARNING: Kiteboarding is an inherently dangerous sport

- Always be extremely careful when using this product.
 - Only use this product when you are in good physical conditions.
 - For safety reasons you should only use North kites if you are familiar with the use of power kites.
 - Never act carelessly when using this product.
 - Remember that you are not only responsible for your own safety but also for the safety of third parties while using this product.
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1. LIMITATIONS OF LIABILITY

WAIVER OF LIABILITY, RELEASE AND WAIVER OF CLAIMS, ASSUMPTION OF RISK

By assembling and/or using this North Kite product you agree that you have read and understood the entire user's manual, including all instructions and warnings, before actually using the product in any way. Furthermore, you declare that you will ensure that any additional or subsequent user of this North Kite product (who temporarily or permanently receives the product from you) has read and understood the entire manual, including all instructions and warnings, before you allow such a person to use the product.

ASSUMPTION OF RISK

The use of this North Kite product involves certain inherent risks which can result in physical injury or even death of the user or non-user third parties. In using this North Kite product you agree to assume and accept all known and unknown, probable and improbable risks of injury. The risks inherent to this sport can be greatly reduced by strictly observing the warnings listed in this manual and by using common sense when practicing the sport.

RELEASE AND WAIVER OF CLAIMS

By purchasing this North Kite product you agree to the fullest extent permitted by law to the following points:

TO WAIVE ANY AND ALL CLAIMS against Boards & More and all related parties that may result from using this North Kite product now and in the future.

TO RELEASE Boards & More and all related parties from any and all claims and liabilities for any loss, damage, injury or expenses that you, your next of kin or any other user of your North Kite product may suffer as a result of the use of this product, including negligence or breach of contract on the part of Boards & More and all other related parties in the process of designing and manufacturing the North Kite product and any of its components.

In the event of death or incapacity, all provisions contained herein shall be effective and binding upon your heirs, next of kin, executors, administrators, assigns and legal representatives. Boards & More have not made any oral or written representations and expressly deny any such representations other than those contained herein and in the North Kite product's manual.

2. SAFETY

Rules and what you should know about flying kites

- Always act responsibly when using your Solid kite.
- Never touch the flying lines when flying the kite.
- Never attach yourself permanently to the kite or to the bar.
- Never allow anybody to walk between the bar and the kite.
- Never launch the kite right in the power zone (straight downwind).
- Never fly the kite above other persons or animals or close to overhead power lines.
- Make sure that the space in an area of approximately 100 m around you is clear of persons, pets and obstructions.
- Never use the kite during a thunderstorm or in lightning activity.
- Remember that buildings, trees, mountains, rocks and other large objects can interfere with the wind and produce gusts.
- Always be prepared for a strong pull of the kite and remember that the kite may knock you over and drag you along.
- Make sure that all the material you use is fully functional and in good conditions. Never use damaged lines, kites or bars.
- Prepare yourself thoroughly for flying a kite and familiarize yourself with the theoretical basis of kiting.

Safe Location

- Before launching, make sure that flying a kite is allowed in your chosen location.
- Never use your kite close to obstructions such as telephone masts, overhead power lines, trees, fences, bridges, airports or roads.
- Never use the kite on crowded beaches.
- Make sure you have enough space for safely launching and landing the kite.

Wind and Weather Conditions

- Make sure you understand wind patterns and never underestimate the power of wind.
- Never use the Solid in high wind conditions.
- Never practice at wind speeds that exceed 12 knots!

The following table will help you to determine without a wind gauge whether the wind conditions on a given day are suitable for flying your kite.

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

3. RIGGING THE KITE

The kite is supplied ready to fly, all you need to do is unpack it and lay it out. For safety reasons you must check the lines each time before launching the kite. For this purpose, spread the kite out on the ground with the trailing edge facing upwind and secure the trailing edge with a sufficient amount of snow or rocks. The kite's leading edge is now pointing downwind. Now unwind the lines from the bar while walking upwind. Put the bar on the ground with the red side to the left. The lines must run free and untangled from the bar to the kite. Untwist the lines if necessary.



Attaching The Safety Leash

After securing the kite on the ground with sufficient weights on the trailing edge and untangling the lines you must attach the safety line before launching the kite.



Iron Heart Safety release

The special designed safety device Iron Heart can be easily triggered by pushing the red slider away from you. After releasing the safety system the kite will remain connected on your safety leash and sink to the ground.



4. LAUNCHING THE KITE

Remove the slack from the flying lines until the leading edge of the kite is lightly in the wind and hook into the chicken loop. The wind will now start to fill the kite's chambers with air. Completely depower the kite for launching by pushing the bar far away from your body.



In high wind conditions you should walk to the side after securing the kite on the ground in order to launch it from the edge of the wind window. It helps to keep the brake line pulled behind you to prevent the kite from launching prematurely. Another good possibility is to have an assistant hold the kite down on the ground and then release it at the edge of the wind window.

Flying And Depowering The Kite

Our kites are steered through a bar, just like any conventional kite. Always make sure that the red side of the bar is to your left. By pulling the right side the kite will fly to the right and vice versa. Pushing the bar away from your body will depower the kite. Pulling the bar closer changes the angle of attack and increases the kite's power by exposing a larger part of the kite to the wind.

5. USING THE ADJUSTER

The adjuster at the bar offers you the possibility to increase the kite's depower range by simply pulling the lower red plastic grip.



Similarly, you can increase the kite's power by pulling the upper red loop toward you.



Additionally, the North Bar offers you the opportunity to change the depower travel at the adjuster. For this purpose, simply untie the large knot at the adjuster and change the line to the desired length. Please remember that these changes significantly affect the kite's trim. The kite is delivered with optimum default settings.

6. RELAUNCH

If the kite should collapse and land in the snow there are two basic methods for relaunch. If the kite comes to rest with the trailing edge on the snow and the open leading edge pointing upwards, pull gently at the completely depowered bar or use a little gust to relaunch the kite. If the kite is not in a suitable position for relaunch, sit down, hold the bar securely in your left hand and grab the break lines from underneath the bar with your right hand. Pull the break lines far enough behind you so that the kite rises, turns around in the air and falls down on the ground again. Now it is ready to launch. Let go of the central line, depower completely and relaunch the kite. Be prepared for a little pull since the kite will fly through the power zone.



7. LANDING

There are two basic methods for landing the kite. The first one is through releasing the iron heart or unhooking the chicken loop. This pulls the 5th Line taut and causes the kite to fold up and collapse completely depowered.



Now you can either secure the safety line to a solid object or ram a ski or snowboard into the snow and use it as an anchor. In strong wind or with limited space in lee you can also land the kite at the edge of the wind window with the help of an assistant.

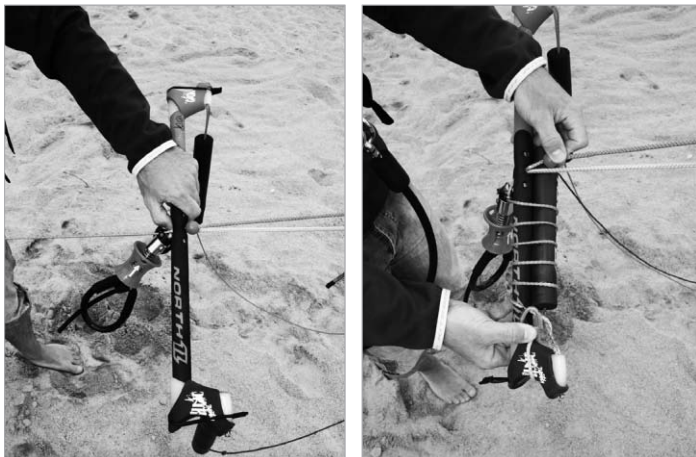
The second method is to land the kite with the help of the diagonal line. By pulling this line, the kite slows down, begins to fly backwards and eventually collapses on the ground. In strong wind it will, however, retain a certain amount of pull. Therefore we recommend the first method at high wind conditions.



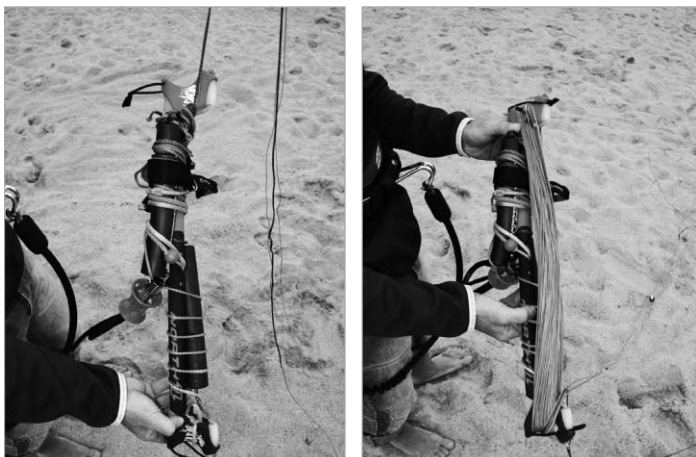
Generally, you can also land the kite with the help of an assistant who catches the kite at the leading edge so that it depowers completely.

8. PACKING THE KITE

Always secure the kite on the ground first before you start winding up the lines. Pull the safety line to shorten the flying lines and keep them shortened during the first few windings.



For safety reasons the safety leash should be disconnected from your body while winding up the lines. Now you can wind up the lines on the bar in a figure of eight until you reach the diverters.



Then secure the lines with the rubber bands on the bar ends to prevent unintentional unwinding. Place the kite with both ends on top of each other and put the bar carefully on top of the kite.



Now you can roll up the kite from the sides towards the center and squeeze the air out.



9. VARIO TRIM

With this function, North offers you the opportunity to trim the kite according to your preferences. The Vario Trim enables you to influence the kite's flying characteristics.

Please remember that the kite is optimally trimmed for most kiter's needs when it leaves the factory. Do not change the default setup before you have gathered sufficient experience with your kite.

In the default setup, the steering lines and the brake lines are tied to the knots that are marked in black.

By moving the steering lines at the bar leader lines from the black knot up to the white knot, you can increase the kite's speed. This setup is suitable for unhooked moves and freestyle maneuvers. It also reduces the steering forces.



If you want to increase the kite's agility as well, you can tie the brake line to the white knot. Warning: shortening the brake line increases the kite's tendency to backstall when you pull the bar very close to you. It may be necessary to shorten the front lines with the help of the webbing adjuster.



10. MAINTENANCE AND CARE

Do not expose your kite unnecessarily to UV radiation and sunlight.

When the kite was packed in a wet condition, unpack it and dry it carefully before storing it over extended periods. Always keep the kite in a dry place. Minor damages of the canopy can be repaired with spinnaker cloth. Clean the kite only by wiping it with a moist cloth and clear, lukewarm water.

11. 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 (6) months from the date of purchase. This warranty is subject to the following limitations:

The warranty is valid only when the product is used for **SNOWKITING**, 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.

This warranty does not cover damage caused by misuse, abuse, neglect or normal wear and tear including, but not limited to, punctures, rigging with other than North Kiteboarding components, damage due to excessive sun exposure, or damage due to over inflation of the bladders, damage caused by improper handling and storage, damage caused by use in 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 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, which extend beyond the warranty specified herein.

Warranty Claims

Warranty claims must be processed and be issued a return authorization prior to shipping to North. Please call or write for claims processing to the national North Kiteboarding distributor.

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