



FLYSURFER

**USER
MANUAL
CONNECT²**

EN

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01 RELEASE OF LIABILITY

Release of liability, claim waiver, assumption of risk

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

Assumption of Risk

FLYSURFER product and any of its components involve certain risks, dangers, and hazards that can result in serious personal injury and death to both the user and to non-user third parties. In using this FLYSURFER product, you freely agree to assume and accept any and all known and unknown risks of injury and you and 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 user manual and by using common sense.

Claim Waiver

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

If you have any questions (repair, replacement parts installation, tuning, etc.) the dealers you trust get faster help and correspondingly cheaper support (e.g. by saving shipping costs).

You can find all dealers in your area via our partner map:

<https://flysurfer.com/fs-partner/>

If you need further help, you can reach us at headquarters by phone or email.

E-Mail: support@flysurfer.com

Phone: +49 (0) 8641 6948 0

02 SAFETY NOTES

Read the entire **Gear Guide online** thoroughly before using the control bar, and strictly conform to the procedures noted. **The following safety guidelines are only guidelines and do not claim to cover every instance.**

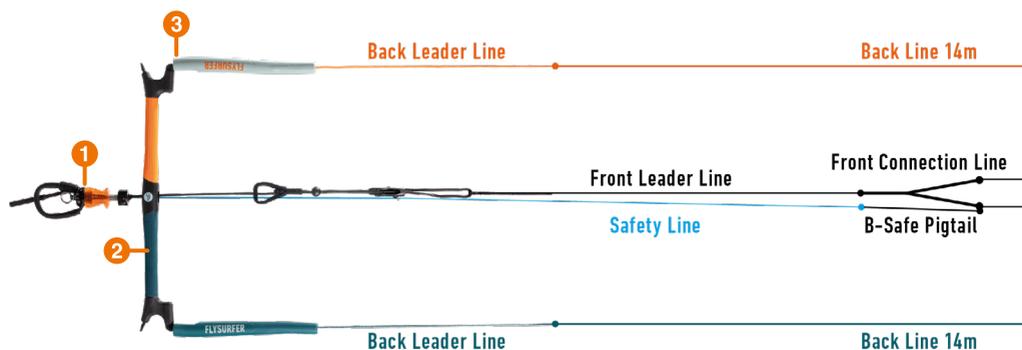
01. Kitesurfing is a **potentially dangerous sport**, that holds risks for the athlete or the people surrounding them. Incorrect use of this product may result in **serious injury or even death** for the user or third parties. **Every user should be qualified/ trained** by a FLYSURFER kiteschool or a FLYSURFER dealer.
02. **The user carries the sole responsibility for themselves and third parties when using this product.** The user must check their equipment for wear, especially on wearable parts, before each kite session. Do a test activation of your quick release before every launch. This will ensure the system is working and reinforces the release instinct of the kiter.
03. The product may only be used with **original spare parts**, and may not be modified.
04. This product has been designed for riders weighing 40-120kg. We cannot guarantee the proper functioning of the product outside of this weight range.
05. Never kite in unsuitable conditions such as storm fronts, lightning, or offshore winds. Check the weather and wind conditions carefully and choose the according kite size.
06. Check out the kiting spot beforehand. Make sure you are aware of any risks such as obstacles, shallows, currents and bans. Also be aware if a rescue craft can get to you in case of an emergency. It is always best to ask people (locals) who know the area well.
07. Keep a safety margin of at least two line-lengths downwind of you, and never kite near people or obstacles. Kiting near power-lines, roads, airports, cliffs, etc. is extremely dangerous.
08. Make sure that someone is looking out for you and that help is there if you need it. Never go out alone. Never kite further away from shore than you can swim back.
09. The incorrect usage of lines creates a high risk of injury for yourself as well as others. Body parts that get caught in the lines of the kite may suffer from severe injury or burns.
10. Only use bars with a safety system that you can engage in emergency situations. Use a quick-release kite leash so that you can disconnect your body from the product in case of an emergency.

02.01 Do not fly with kites

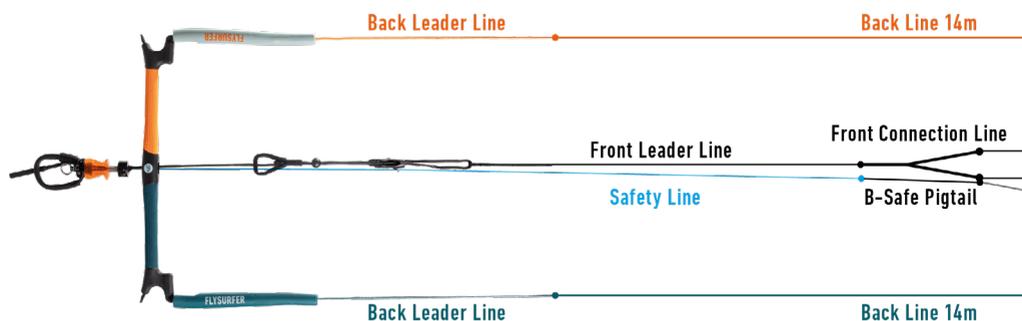
A kite is not designed, tested or licensed as an aircraft or flying device. The use of a kite as a flying device is illegal and not covered by insurance. **Flying with this product can lead to death!**

03 OVERVIEW OF THE CONTROL BAR

03.01 CONNECT² Control Bar with Front Line Safety



03.02 CONNECT² Control Bar with B-Safe System

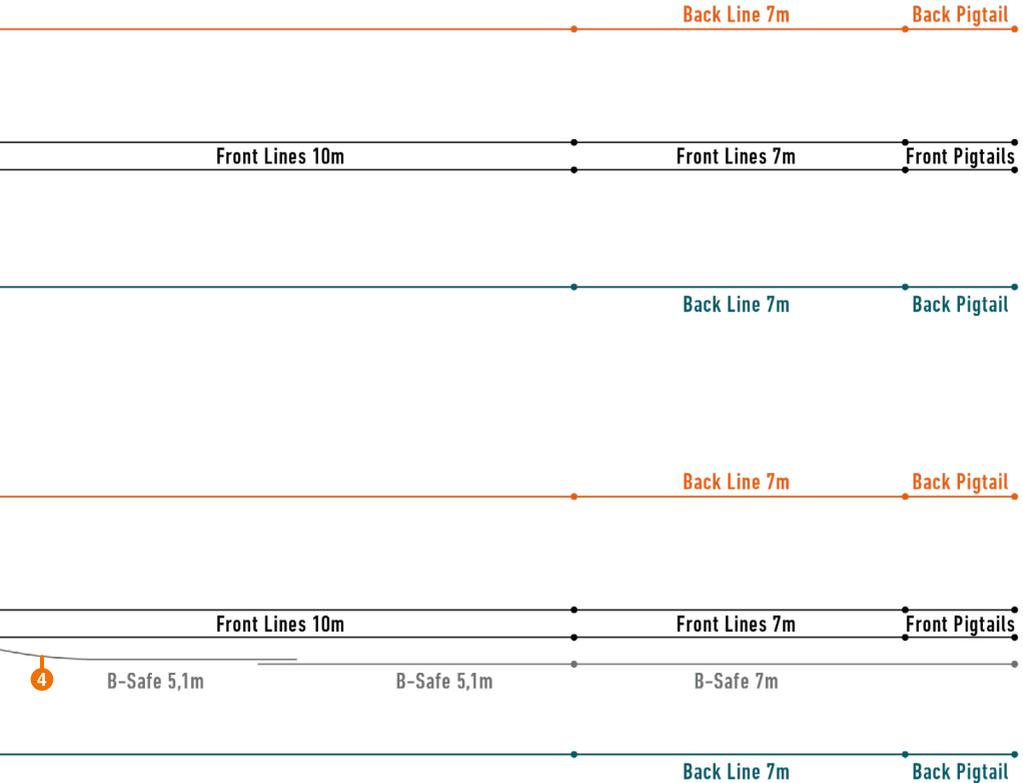


1 SIMPLE QUICK RELEASE

The compact and reliable SIMPLE Quick Release fulfills the French standard (AFNOR) in terms of safety and release forces in the event of contamination. The compact designed chicken loop with stick secure the connection between the harness hook and the control bar and prevent unintentional unhooking. The handy release cap enables precise and low-resistance activation of the safety system in an emergency. The front lines can be turned out manually using the swivel located above the quick release.

2 LIGHT BAR STICK

The 0.34 kg light Barholm is color-coded with orange (left) and petrol (right). The back can be clearly distinguished from the front with a continuous gray design element. The ergonomically shaped, [M] 50cm long bar is protected by an EVA grip and lies comfortably in the hand. The non-slip surface guarantees optimal grip in wet and cold conditions.



3 ADJUST TO THE GIVEN CONDITIONS

Use the adjustment options of the flying lines to adapt the CONNECT Control Bar to the weather conditions or your driving style. Choose between 14 m and 21 m flying line length to increase reactivity or to reduce the wind window. The steering lines can be extended with the help of a knot ladder under the floaters. In order to be easy to use for every body size, the depower travel is exactly 45 cm. The Clam Cleat Adjuster can be used to gain a further 20 cm of depower travel.

4 B-SAFE SYSTEM READY

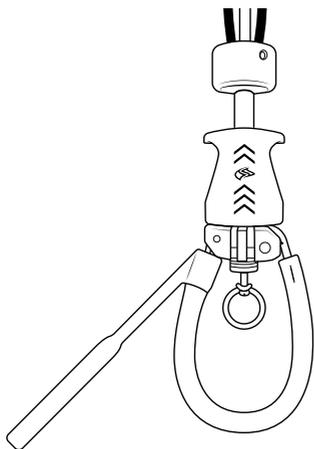
The CONNECT Control Bar has been specially configured for products with the B-Safe system. The 4-line FLS system can be converted to a 5-line system in just a few simple steps. After the release, the control bar slides up to 3 m along the 5th line, gathers the kite together and lets it fall down without generating any power. The B-Safe system requires a high split of the front lines (high Y) and a thin line with little air resistance. The PEAK and VIRON product lines have the B-Safe system.

04 SAFETY SYSTEM



Our SIMPLE Quick Release system is fully functional in temperatures down to -5°C or 23°F . Their function below -5°C or 23°F temperatures is not guaranteed.

To avoid operating errors, knowing everything about handling and functions of the Quick Release is essential; carefully study the operating instructions of the respective control bar.



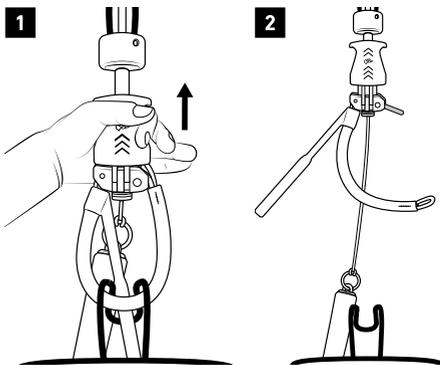
Before kiting, check the Quick Release system (QR) for functionality and perform a test release. The QR must not be dirty or frozen to ensure full functionality. No leashes or lines may be wrapped around the QR. The Quick Release systems by FLYSURFER are designed to be used with harness hooks.

Each FLYSURFER Control Bar is hooked into the harness hook with the help of the chicken-loop, located below the Quick Release, and secured to the harness hook with the chicken-stick. **Before every start, ensure the chicken-loop is correctly fastened to the harness hook.**

05 QUICK RELEASE

05.01 Activating a FLYSURFER Quick Release

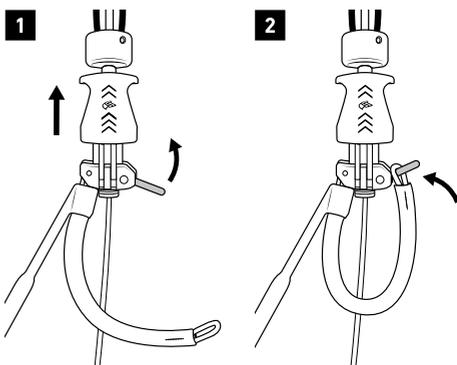
To detach yourself from the kite in an emergency, the orange release handle simply needs to be pushed away from the body. This will open the chicken-loop and the FLYSURFER control bar will slide to the kite on the safety line. The kite falls and blows off safely with minimal residual pull on the safety line.



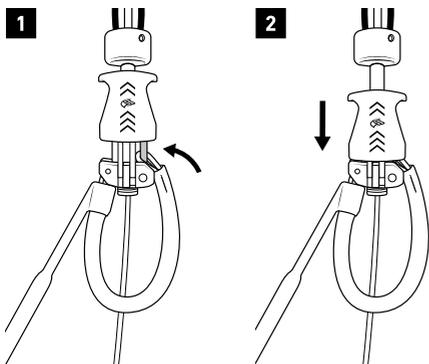
05.02 Assembly of a FLYSURFER Quick Release

Keep the FLS Line pulled in during assembly to prevent the kite from always flying and always keep an eye on your kite. Make sure that no line wraps around your hand, other body parts, the bar or the harness hook.

1 Hold the orange release handle up and make sure the release pin is in the open position. Place the end of the chicken loop over the release pin while holding the release handle open.



2 Press the release pin on the SIMPLE Quick Release and slide the release handle down to lock the latch.



06 UNWINDING AND SORTING OF THE FLYING LINES

1 Lay the lines loosely on the ground when unwinding.

2 Slide the lines through your fingers and check for knots or damaged areas.

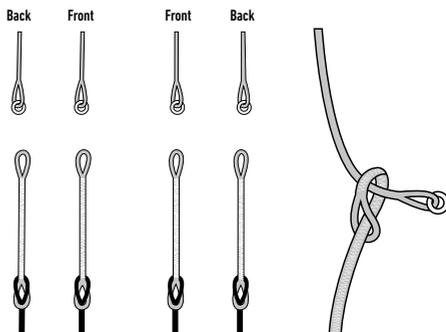


3 Lay the front and steering lines fanned to the ground.

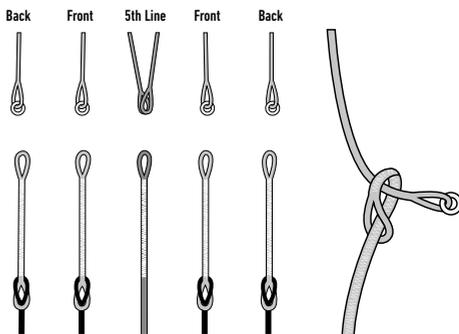
07 CONNECTING THE FRONT- AND BACK-LINES WITH THE KITE

07.01 Connecting the control bar to a Foilkite

Start at the capony and hold the front lines up for an optical check of the bridle. Check the bridle levels from A-Z. Sort the mixer and connect your grey front lines to the attachment points on the kite below the mixer with a larkshead on the ring provided. The same method is used on the color-coded backlines and their associated attachment points.



Attach a 4-line control bar on a foil kite



Attach a 5-line control bar on a foil kite

Pay attention to the color coding when connecting the control bar with your FLYSURFER kite.

08 ASSEMBLY OF THE B-SAFE SYSTEM

08.01 Conversion of the CONNECT² Control Bar from 4 lines Frontline Safety to 5 lines B-Safe System

The CONNECT² is delivered as a 4-line control bar with FLS (Frontline Safety System). Take the B-Safe line set out of the CONNECT² bar bag.



1 Unwind the flying lines until you reach the Front Connection Line.



2 Open the connection of the first Front Connection Line and the Front Line. Thread the Front Line slowly out.

Attention: thread all lines slowly to avoid damage caused by friction!

3 Connect the first Front Line with a double loop to the Front Connection Line.



The trim is necessary to ensure an equal total line length.

4 Thread the first Front Line slowly through the loop and tension both lines to ensure a tight connection.



5 Disconnect the Pigtail of the second Front Line and thread it slowly through the ring of the Front Connection Line.



6 Disconnect the second Front Line from the B-Safe Pigtail.



7 Connect the second Front Line with a Lark's Head below the ring of the Front Connection Line. Tension both lines to tighten the connection.



8 Connect the Front Pigtail of the second Front Line. Both Front Lines are now ready.

9 Unwind both 5,1 m B-Safe Lines from the cardboard winder. These lines are already connected and build one 10 m B-Safe Line. Connect the B-Safe Pigtail and the 10 m B-Safe Line with a double loop.



Note: Leave the connection part where the 5,1 m B-Safe Lines are connected to each other at the standard setting. The variable connection part can be used to extend the total length of the B-Safe line after heavy use.



10 Unwind the 7 m B-Safe Line from the cardboard winder. Connect the 7 m B-Safe Line with the end of the 10 m B-Safe Line.



Attention, all line connections must be tight!

11 Thread the B-Safe Lines with a total length of 17 m through the ring of the Front Connection Line.



Attention: the B-Safe Pigtail with the double loop knot should not slip through the ring!

The CONNECT² Control Bar is now B-Safe System ready and operates on 5 flying lines.

08.02 Instalment of the B-Safe Top Lines on the PEAK⁵

Take both grey B-Safe Top Lines (B-Safe Main) out of the side pocket of the PEAK bag.



Keep the CONNECT Control Bar attached to one PEAK

This option offers the highest level of safety. We recommend if you keep the CONNECT Control Bar attached to the PEAK.

1 Thread the B-Safe top lines through the loop at the end of the B-Safe line (5th line) of the CONNECT Control Bar.



2 Unfold the PEAK⁵ on the ground in front of you. Start in the middle of the PEAK and lift the A-Level on either side of the wing.

Tip: Go beneath the A-Level and lift it above your head. Put it on the shoulder which points toward the middle of the PEAK⁵.

3 The lines of the B-Safe System run through the rings integrated into the B-Level ribs. Search for the red LCL (Little Connection Line) and connect the B-Safe Top Line with a Lark's Head knot.



4 Check if the B-Safe Top Line is correctly attached and runs free beneath the A-Level. Repeat the process on the other side of the PEAK⁵.



Use the CONNECT Control Bar with several PEAKs

1 Build a overhand knot at the end of the B-Safe Line (5th line).



2 Build two larks head knots at the end of the B-Safe Top Lines. Attach both B-Safe Top Lines below the overhand knot of the B-Safe Line (5th line) and pull them tight.



3 Unfold the PEAK⁵ on the ground in front of you. Start in the middle of the PEAK and lift the A-Level on either side of the wing.

Tip: Go beneath the A-Level and lift it above your head. Put it on the shoulder which points toward the middle of the PEAK⁵.

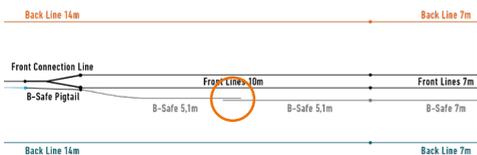
- ④ The lines of the B-Safe System run through the rings integrated into the B-Level ribs. Search for the red LCL (Little Connection Line) and connect the B-Safe Top Line with a Lark's Head knot.



- ⑤ Check if the B-Safe Top Line is correctly attached and runs free beneath the A-Level. Repeat the process on the other side of the PEAK⁵.



09 EXTEND THE B-SAFE LINE



- ① Open both lark's head knots.



- ② Loosen the connection and push the loops over the knots.



- ③ Pull the B-Safe Line taut.



10 CONVERT TO THE FRONT LINE SAFETY SYSTEM

10.01 Convert the CONNECT² Control Bar from the 5-line B-Safe System to a 4-line Front Line Safety System

Take the cardboard winder out of the CONNECT² bar bag and put it aside.

- ① Disconnect both B-Safe Top Lines (B-Safe Main) from the PEAK.



- ② Open the connection of the B-Safe Top Lines and the B-Safe Line (5th line).



Attention: thread all lines slowly to avoid damage caused by friction!

- ③ Wind the B-Safe Top Lines around the cardboard winder.



- ④ Unwind your flying lines until you reach the Front Connection Line. Thread the B-Safe Line through the metal ring of the Front Connection Line.



Note: In case the B-Safe Line has a knot at the end, open the knot to easily thread the line through the metal ring.

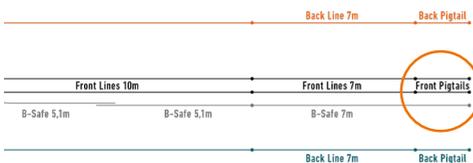
- 5 Disconnect the B-Safe Line from the B-Safe Pigtail.



- 6 Wind the B-Safe Line around the cardboard winder.



- 7 Disconnect the Pigtails from both Front Lines.



- 8 Open the connection of the Front Connection Line and the first Front Line. Pull out the Front Line.



- 9 Reconnect these lines with just one loop.



- 10 Open the connection of the second Front Line, which is attached to the ring.



- 11 Connect the B-Safe Pigtail and the second Front Line with a double loop. (Double loop on the pigtail side)



- 12 Thread the second Front Line through the metal ring of the Front Connection Line. Connect the Pigtails on both Front Lines.



Attention: the B-Safe Pigtail with the double loop knot should not slip through the ring!



The CONNECT² Control Bar is now Front Line Safety System ready and operates on 4 flying lines.

11 SHORTEN YOUR FLYING LINES

11.01 Shorten your flying lines with 5-lines B-Safe System

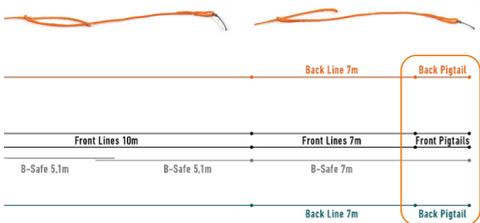
1 Disconnect both B-Safe Top Lines (B-Safe Main) from the PEAK.



2 Open the connection between the B-Safe Top Lines (PEAK) and the B-Safe Line (5th line).

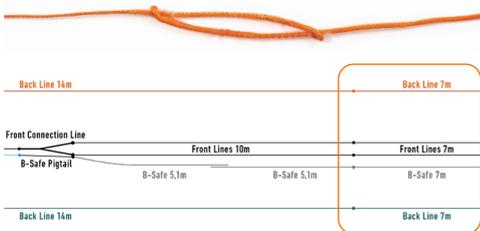


3 Remove all pigtails from all four flying lines (Back- and front lines). There is no pigtail attached to the end of the B-Safe Line (5th line).



Store the pigtails in a bag or put it aside.

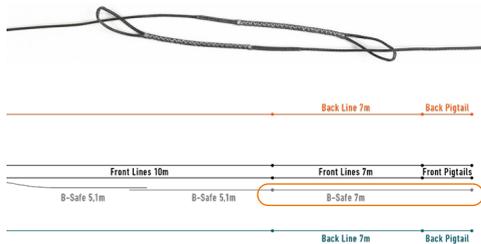
4 Remove the 7 m extension from the flying line (Back- or front line). Repeat this process on the other three flying lines.



5 Attach each pigtail to the shortened flying lines (14 m). Repeat this process on the other three flying lines.



6 Remove the 7 m B-Safe Line attached to the 14 m B-Safe Line.

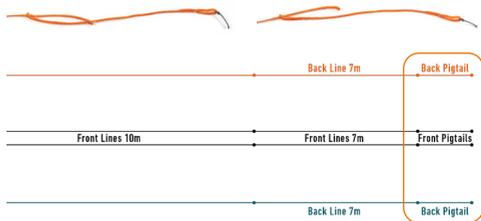


Wind all extension lines on the cardboard wrapper or stow them in a bag.

7 Attach the B-Safe Line as described in the chapter „Installation of the B-Safe Top Lines on the PEAK“.

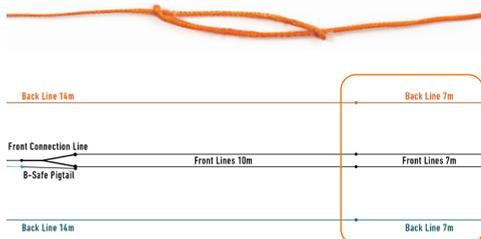
11.02 Shorten your flying lines with 4-line Front Line Safety System

1 Remove all pigtails from all four flying lines (Back- and front lines).



Store the pigtails in a bag or put it aside.

2 Thread the 7 m extension line through the loop of the flying line (Back- or front line) and remove it. Repeat this process on the other three flying lines and put them aside.



- 3 Attach each pigtail to the shortened flying lines (14 m). Repeat this process on the other three flying lines.



Wind all extension lines on the cardboard winder or stow them in a bag.

12 INSTALLATION OF THE BRAKE LINE

- 1 Choose one steering line.



- 2 Take the Brake Line and thread it through until you reach the steering leader line. Stop in above the spliced part.



- 3 Push the Brake Line through the loop of the steering leader line.



- 4 Pass the Brake line behind the clam cleat adjust. The Brake line has to pass freely on the backside of the adjuster line.



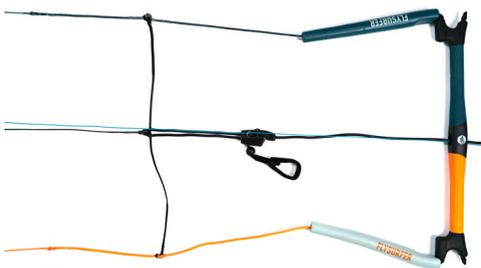
- 5 Push the Brake Line through the loop of the other steering leader line.



- 6 Thread the steering line through the loop of the Brake line.



- 7 Tighten all connections.



13 CONTROL BAR CARE

Each control bar must be checked regularly and properly. Maintenance and care support the error-free function of all safety-relevant components.

Any discoloration of the Control Bar can be attributed to environmental factors, mechanical stress, UV radiation, and soiling. Discoloration does not affect the control bars functionality.

Prevention

FLYSURFER recommends a thorough check of all individual parts immediately before and after using the Control Bar. Avoid contact with sharp-edged objects, strong UV exposure and long storage times when wet.

Check the functionality of the quick release system and avoid soiling, silting and icing.

Drying

To avoid mold stains, discoloration or, in extreme cases, mold, the Control Bar must be packed dry. The function of the control bar is not restricted by this.

Rinsing

The Control Bar should be rinsed with clean, fresh water after several days of saltwater use. The use of cleaning agents damages the coating of the Control Bars parts and voids the warranty.

Check

Check all Control Bar parts for wear before each use. Material breakage can lead to emergencies or injuries.

14 MAINTENANCE

The main parts to check for wear on a FLYSURFER Control Bar are all lines, all elastics, pulleys, pigtails and the grip. Depending on usage, lines or other components must also be serviced during the life of your Control Bar. Failure to maintain the kite can cause further damage and void the warranty.

Dirt and heavy use can shorten flying lines or the Safety Line. It is advisable to measure the lines at regular intervals in order to maintain the function of the product and to ensure long-term use.

14.01 Measuring of the flying lines

1 To measure the flying lines of the CONNECT² Control Bar unwind and sort them. Find a fixed point (rod, eyelet) and fix the bar in the powered state with the help of the safety leash or another line.



2 Attach the safety leash to the depower line to keep the control bar powered.



3 Check if the adjuster is fully open.



Use two pens or screwdrivers to measure the flying lines.

4 Take the front lines in one hand and the steering lines in the other hand and thread a pen (or screwdriver) through the end of each line (pigtails).



5 Now tension the flying lines with approx. 10 kg. Hold the front and steering lines side by side and compare the line lengths.



6 If you notice a difference, use the knot ladder to lengthen or shorten the steering lines as described in the next point „Lengthening or shortening the steering lines“. All flying lines must be of the same length.



14.02 Extend a Steering Line

1 Push the floater along the steering leader line away from the bar stick. Expose the knot ladder beneath the floater.



2 Open the lark's head knot.



3 Move the knot to the by one or two knots. Tighten the connection.



4 Push the floater along the steering leader line until it sits on the winder.



5 Repeat this process on the other side of the control bar.

Choose the same position on both sides and make sure the knot of the steering leader line sits on top of it.

14.03 Exchange the Safety Line

Check the Safety Line for damage. If the white core of the line is exposed, change the line immediately.



1 Take the Quick Release and pull the Safety Line with the Safety Ring out.



- 2** Open the knot and take off the Stopper Ball and the Safety Ring.



Store them in the bag or put them next to you.

Don't lose the Stopper Ball and the Safety Ring!

- 3** Take the B-Safe Pigtail and open the connection to the Safety Line. Thread the Safety Line through the loop of the B-Safe Pigtail.



- 4** Take the new Safety Line off the cardboard winder.



Take the black marked end of the Safety Line as a reference point.

- 5** Then take the blue end of the Safety Line (2 m) and push its loop onto the B-Safe Pigtail. Then take the black marked end of the Safety Line and pull it through the loop of the B-Safe Pigtail.



- 6** Thread the Safety Line through the ring of the clem cleat.



- 7** Thread the Safety Line through the eyelet of the bar stick.



- 8** Thread the Safety Line through the Quick Release.



- 9** Thread the Safety Line through the Safety Ring and the Stopper Ball.



- 10** Form a figure-eight knot.



- 11** Pull the figure-eight knot with approximately 25 kg into the Stopper Ball.



15 REPAIR & SPARE PARTS

Repairs can be done at either our workshop in the head office, or by a Flysurfer sales partner who offers a repair service. High quality original spare parts for all our Flysurfer products can be ordered directly from our Online-Shop: **shop.flysurfer.com**



FLYSURFER

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