



The 5th line system is a step forward in kite performance and rider safety. This tuneable system allows you to customise the performance of your Strike 2 kite to suit your riding style.

Whether you are into low level high powered kiteloops or smacking the lips off waves this system can be used to get the most out of your kite.

By simply larksheading the 5th line on to a different knot on the kite the performance of the kite can be changed from a grunty, high edging force kite to a depowerable, low edging force kite. This has the benefit of massively increasing the top end wind range of your kite without affecting the low end grunt required for light wind riding.

The system also works as a tangle free safety system and unlike many four line safety systems it is easy to recover when on the water. This means you can concentrate of improving your riding rather than worrying about how you are going to recover your safety system.

The system has also been designed and tested with rotations in mind and works with up to 30 spins in the centre line. With the 5th line leash attaching to your harness, the system is also suitable for safe unhooked riding.

As with all Flexifoil products, quality and durability has been an important factor in the design. All key parts of the system are made of high quality prestretched dyneema to minimise the stretch and prolong the life of the system.

Turn over to the next page for details of how to install the 5th line on your CBX50.

Using the 5th line system improves the performance of the kite in the following ways:

More depower – The 5th line increases the depowerability of the kite. The centre line depower has more effect for a shorter movement making gusty control easier.

Lighter steering – the 5th line lightens the steering whilst remaining the direct and responsive feel

Reduced Edging Force – The 5th line reduces the edging force required to get the kite to the edge of the window. This improves the usability of the kite in strong and gusty wind conditions.

Improved Upwind Ability – The 5th line improves the upwind ability, as the kite sits closer to the edge of the window.

Kit Contents



Harness Attachment



5th Line



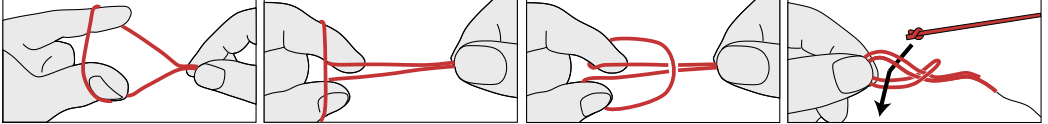
Single 5m Centre Line



Stainless (18mm) Guide Ring

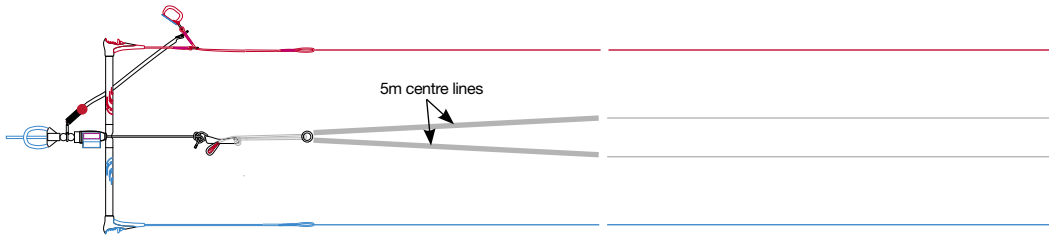
How to Form a Larkshhead Knot

Throughout these instructions you will be asked to make a larkshhead knot. Here is a simple guide to making the knot.



Preparing the Centre Bar Section for the 5th Line

Step 1 Lay out bar and remove the two 5m centre lines.



Step 2 Install single 5 metre centre line.

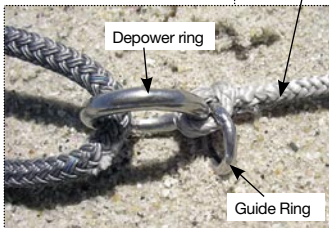
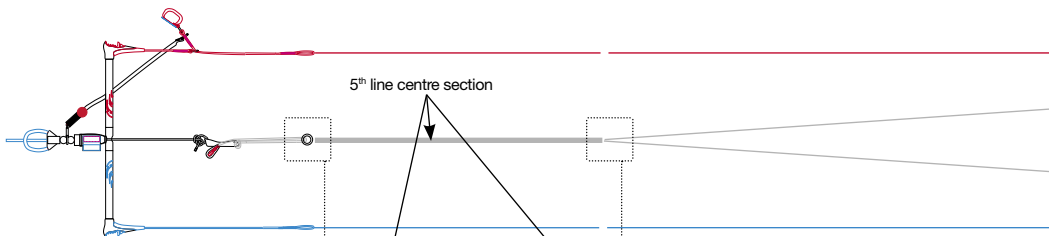


Fig. 1 Ensure stainless steel guide ring sits inside larkshhead with the ring on the ground side of the setup (not sky side).

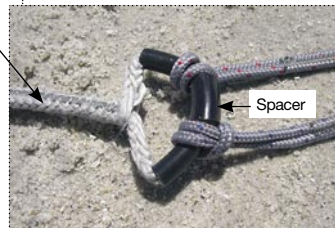


Fig. 2 Larkshhead 20 metre grey flying lines onto centre line tubing loop either side of the spacer.

Installing the 5th Line

Step 3 Run the 5th line through the centre line tubing loop (fig. 4), stainless steel guide ring (fig. 5) and the bar centre hole and centre line guide ring (fig. 6).

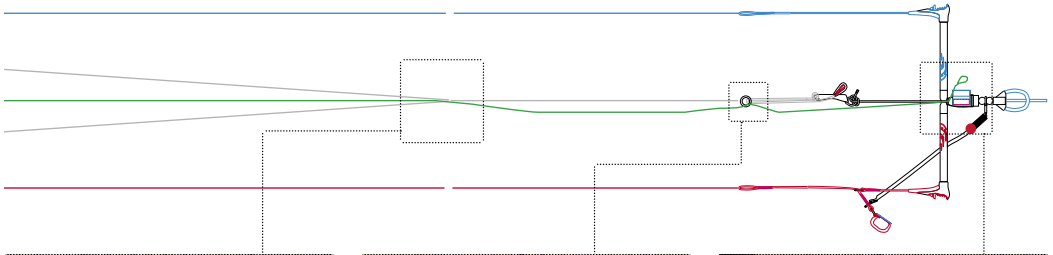


Fig. 4 Thread flying line part of 5th line through centre line tubing loop, ensuring the grey ball is on the bar side of the loop



Fig. 5 Thread 5th line through stainless steel guide ring at the top of the depower system



Fig. 6 Thread 5th line through centre hole in the bar and through stainless steel guide ring on the bottom of the centre line

Step 4 Remove leash from side re-ride system and attach to 5th line loop (Figs. 7 - 9)

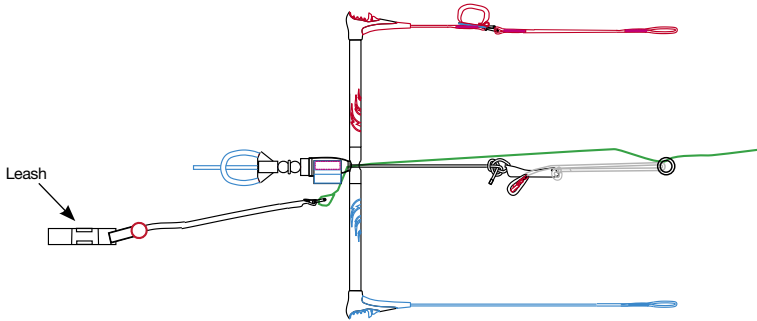


Fig. 7 Thread 5th line through stainless steel ring on the leash and then thread leash through loop on the 5th line



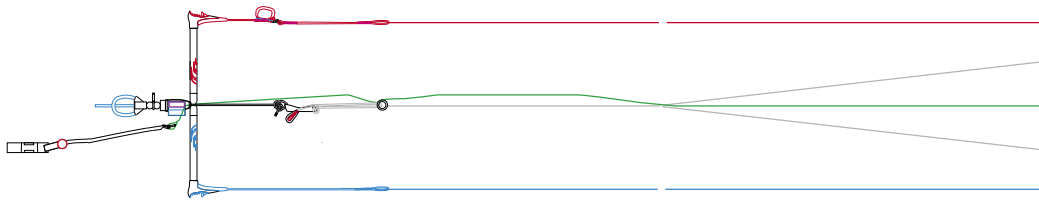
Fig. 8 Pull 5th line tight until larkhead is secure on stainless steel ring



Fig. 9 Attach harness attachment onto secondary release system. See CBX50 Bar instructions for more information on how to do this

Setting Up the 5th Line

When the bar is in the full power position as shown in the diagram below, all the flying lines should be the same length. This will ensure that when you setup the lines at the kite end, the knot positions on the 5th line kite leader will be correct.



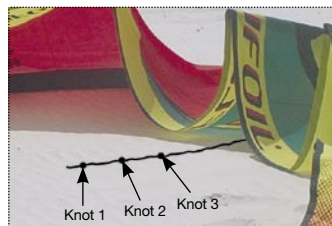
Setting up the 5th line leader to the kite (**Note:** the 5th line leader should come complete with your kite and is individual to each kite size). If you have no 5th line leader, contact Flexifoil International.



1. Larkshead the toggles to the two attachment points on centre of the LE tube



2. Larkshead the 5th line to the two toggles



3. The kite is now ready to be attached to your bar! Note the 3 knot locations...

Attaching Your Flying Lines

The four flying lines from the bar are connected to the kite in a conventional way. Ensure the 5th line is untangled then attach to the 5th line leader with a larkshead knot. There are 3 options for attaching the 5th line. The tables below highlight the performance differences you can expect from the 3 knot settings.

Knot 1

	low	high
edging force		
depower range	small	large
upwind ability	average	excellent
low end grunt	average	excellent
lightness of steering	light	heavy
jumping ability	average	excellent

For powered wake style riding and light wind riding

Knot 2

	low	high
edging force		
depower range	small	large
upwind ability	average	excellent
low end grunt	average	excellent
lightness of steering	light	heavy
jumping ability	average	excellent

For freeriding

Knot 3

	low	high
edging force		
depower range	small	large
upwind ability	average	excellent
low end grunt	average	excellent
lightness of steering	light	heavy
jumping ability	average	excellent

For wave riding and high wind riding

5th Line Adjustability

The pictures below show two extreme cases, one with the 5th line too loose and the other with the 5th line too tight. **If the 5th line tension is setup outside of these two setups then the reliability of the safety system cannot be guaranteed.**



Too Loose

The picture above shows a kite with the 5th line too loose. Note that the 5th line is completely slack and bows massively behind the two front lines



Too Tight

The picture above shows a kite with the 5th line too tight. Note the taut 5th line and openness of the kite



Correct

The picture above shows a kite with the 5th line setup correctly. Note that the 5th line is just slack when at full power and becomes taut when edging hard or when riding with the bar in the depower position

Over time your centre flying lines may stretch due to the high forces from the kite. If this occurs then it will affect the setup of the 5th line by making it tighter. The 5th line toggle on the kite has an extra 30cm of rope to allow for adjustment. You may have to adjust the position of the knots on this toggle to maintain your preferred setup.

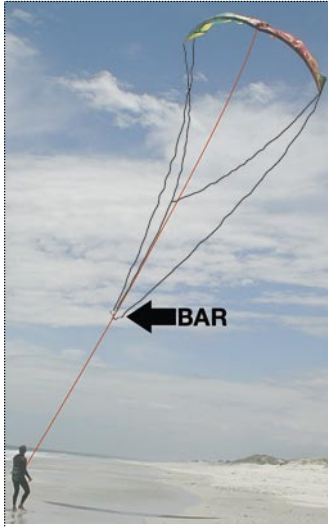
In general as you increase the tension of the 5th line, the kite has more depower, is lighter to steer, requires less edging force, penetrates the edge of the window easier and has less grunt. This makes it ideal for strong wind riding, wave riding and riders who prefer a less powered riding style.

Riding with a loose 5th line maintains low wind grunt of a four line kite making it good for light wind riding.

Using Your 5th Line Safety System



1. Pull quick release tag to activate primary release system



2. Bar moves away leaving rider attached to kite via single 5th line. Kite loses all power and falls



3. Kite sits upside down on the ground with no power in 5th line. 5th line can be attached to a board buried in sand. This allows the rider to run over and turn the kite over into the secure position

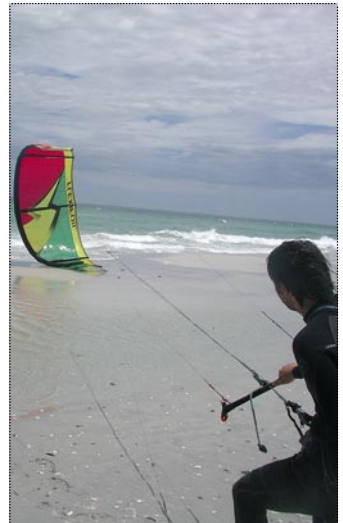
Relaunching the Kite



1. Pull in 5th line until you reach the bar



2. Grab the bar, hook back into the chicken loop and feed the 5th line back through the guide ring on the bottom of the centre line



3. Kite will work its way around to the edge of the window and take off

Relaunching the Kite Using the 5th Line



1. Pull in about 1 metre of 5th line to get kite on to its back as shown in the picture



2. Hold 5th line and steer kite towards the edge of the window



3. Once the kite is at the edge of the window, steer the kite up to relaunch

Care and Maintenance

Taking good care of your CBX50 bar and 5th line kit will prolong its life

- Always wash your bar before and after use, paying particular attention to removing sand from the centre line and clam cleat system
- Always replace worn ropes before use.
- Rub wax on to your centre line rope to prolong the life of the part.
- Always check that your primary (chicken loop) and secondary (leash) release system are fully functional before use.

Care and Maintenance

- Flexifoil strongly recommend that you abide by ALL safety guidelines and conduct yourself in a safe manner at all times
- Seek expert advice from a recognised Flexifoil Dealer, or take lessons from a fully qualified instructor BEFORE undertaking any power and traction activities
- ALWAYS check your equipment for wear and tear before flying. DO NOT fly with worn or damaged equipment. Repair or replace accordingly
- Use EXTREME caution when using kite traction equipment as improper use of this equipment can cause serious injury or death
- ALWAYS select safe launching and landing areas free of people and obstacles. Disable your kite and lines on the ground when not in use
- NEVER allow inexperienced kite flyers to use your equipment
- NEVER attach yourself permanently to your kite or secure yourself to a fixed object whilst flying your kite
- Use appropriate SAFETY equipment i.e helmet, knee and elbow pads, protective eye wear, gloves etc.
- Flying lines and bridles under tension can cut like a knife. Always keep your lines away from people and animals. NEVER attempt to catch or hold a kite by the lines or bridle
- DO NOT fly your kite near power lines, in storms, near airports, roads, railways, people or animals
- Flexifoil kites CANNOT be used for paragliding or parasailing
- ALWAYS maintain plenty of space around you in all directions, especially downwind. Traction kites can pull you downwind for a considerable distance

Warranty

At Flexifoil we believe in designing and manufacturing our products to the highest possible standards. We pride ourselves on our outstanding quality control but if any of our products fail as a result of defective workmanship or faulty materials, we will replace it free of charge. This is in addition to your statutory rights.

Products will not be replaced which have been:

- damaged as a result of normal wear and tear, misuse or neglect
- repaired or modified without the authorisation of Flexifoil International Ltd
- returned to Flexifoil International Ltd without a valid receipt

If you live in the UK, please return faulty products to your local dealer or Flexifoil International. If you live outside the UK please return faulty products to your distributor. A list of dealers and distributors can be found at www.flexifoil.com



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