

# JN Switchcraft Manual 2008

## **Warning! & Release Of Liability!**

Kitesurfing is an extreme sport and exposes users to unavoidable risks and dangers. Please be aware of the possibility of severe or even deadly injuries and respect the sport and its dangers and risks.

Before using this product, the user has carefully reviewed the security advices. He understands them and agrees to comply with them. The user of this product understands that the seller and producer is not responsible for any damage to property or injury caused by negligent operation of this product by the user and the user releases the seller and producer from all such liability.

At rental or propagation to other users, every user has to read, understand and agree with the above conditions.

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## 1.) Introduction

Thanks you for choosing the new JN Switchcraft bar.

This bar was designed especially for easy use with all JN kites, including Prima Donna 2, DaVinci, DaVinci Bat and Wild Thing; however, it can be used for any other kites without limitations.

The new Switchcraft CBS is a 5 liner bar that combines all the 5<sup>th</sup> line's advantages with many handy innovative features that make kiting significantly easier and safer.

With its revolutionary maximum safety Quickrelease, comfortable 3D grip and patented turnable bar horns, JN Switchcraft caters to all riders' needs. Thanks to the special turnable bar horns, Switchcraft can be adjusted to 4 different bar sizes.

An aluminium-coated oval boring in the bar allows for maximum comfort through its autolock mechanism during unhooked manoeuvres. The sophisticated set-up of the 5<sup>th</sup> line provides excellent safety standards at all times and prevents any turning of the safety leash during loops or rotations.

For more information about safety and 5<sup>th</sup> line positioning, please carefully read and understand chapter 3) a) *Special 5<sup>th</sup> Line Set-up For Additional Safety*



## 2.) Characteristic features of CBS Switchcraft

- **Turnable bar horns** offer four different bar length options in order to allow for use with different kite sizes and increase or steering power
- **Autolocking depower loop** for unhooked manoeuvres, and effortless hooking-up and unhooking
- **No contortion of the 5<sup>th</sup> line** during rotations and loops thanks to central positioning of the 5<sup>th</sup> line through the QR
- QR can be easily released by pushing it forward, even when there is no pressure on the kite
- Adjustable depower range thanks to adjustable stopper ball at the depower line's end
- Minimum friction aluminium-coated bar hole to reduce wear and tear and loss of steering power
- Small and extra large Chickenloop to make unhooked manoeuvres easier; included in the package
- Easy QR mechanism, easy assembly
- Thanks to its adjustable safety stop knot, Switchcraft can be used for all kite sizes
- Embossed no-slip 3D Grip on whole bar length for better handling
- Easy, strong aluminium Clam Cleat adjuster
- Clam Cleat on power lines adjustable to riders' abilities and desired depower
- Continuously adjustable 5<sup>th</sup> line length during kite sessions
- Extra long floaters for increased safety
- Foolproof lines to prevent wrong attachment
- Easy re-launch after safety release guaranteed by 5<sup>th</sup> line
- Light long-life carbon bar
- Exact steering and constant performance at all wind strengths
- New large bar bag
- Single parts can be easily replaced
- Reduced length (distance bar – rider), well-suited for children and teenagers
- Colour coded (red – left) bar and Dyneema lines

### 3.) Detailed description

#### a) Special 5<sup>th</sup> Line Set-up For Additional Safety

The Switchcraft comes with the 5<sup>th</sup> line employed as a safety along with the Chickenloop. (see image 1.). This set-up guarantees safe release. After rotations and loops though, the safety has to be turned by hand. Please note that once released, the Chickenloop is only attached to the harness. Without a joystick, you might lose it.

In order to provide a turnable safety, a slight modification is necessary.

The 5<sup>th</sup> line finishes immediately after the Quickrelease, where the safety leash ring and rubber stopper are (see image 1.1).

Untie them and pull the 5<sup>th</sup> line through the hole in the Chickenloop, then put both the ring and rubber stopper back into place (see image 1.2).

If you wish to completely disconnect the kite due to excessive pull on the safety after the QR is released, the Chickenloop has to be unhooked before the safety leash is released. Please keep this in mind when using this set-up.



*image 1.1*



*image 1.2*

**b) Turnable Bar Horns**

The turnable bar horns on the Switchcraft allow you to instantly switch between sizes 42, 46, 50 and 54 cm. Thanks to this feature one single bar can be used for all kite sizes and models.

Loosen the screw at the top until each horn turns easily and fold the rubber coating up.

The horns can now be turned by 180°. Once they are in the desired position, fold the rubber coating back down and tighten the screws.

Untie the knots and pull the lines through the inner hole of the horns for two more options.



*image 2.1*



*image 2.2*



*image 2.3*

**c) Autolocking Chickenloop**

The new oval aluminium-coated bar hole reduces wear and tear of the depower line, makes for easier steering and allows for the Quickrelease to autolock, which makes unhooked manoeuvres and tricks significantly easier. (see image 3)



*image 3*

**d) Quickrelease**

The new Switchcraft Quickrelease provides easy handling and maximum safety thanks to a simple but ingenious mechanism. The ergonomic casing with its enclosed spring is intuitive and can be easily used even when there is no pressure on the kite just by pushing. Servicing the QR is easy and should be done at regular intervals. Assembling the Quickrelease is just as easy as releasing it: push the red casing, insert the metal core, and pull the Chickenloop through the groove in the core. Release the casing in order to close the QR. Your kite is ready to be launched.



*image 4*

**e) Clam Cleat Adjuster**

The new Clam Cleat protects the material can be easily adjusted and provides quick depowering. The large loop is handy and easy to use. In order to depower, pull the loop until you get the desired effect and block it in the Clam Cleat. To release the adjuster, just pull the loop. Once it is free, it can be readjusted.

**Repositioning The Adjuster (Experienced Riders Only)**

The adjuster range can be set according to individual preferences.

Please note that any change of the adjuster's position has to be balanced by trimming the back lines (see image 6).

There are three knots on the back lines (below the floaters). The Switchcraft comes with a 40 cm depower range (bar – adjuster) and the back lines tied to the centre knots.

Important: check that both back lines are equally trimmed. Tie all lines to an unmovable object in order to do that – if the adjuster is open and the bar is fully powered, all lines should be equally long.

In order to reposition the adjuster on the line, simply loosen the knots at the adjuster's lower end and move the adjuster (see image 5).



*image 5*



image 6

**f) Depower Stopper Ball**

Thanks to a tiny worm screw, the red stopper ball can be easily positioned anywhere on the depower line (see image 7). Loosen the screw with a hexagon wrench key, move the ball and fasten the screw again. The stopper ball's hole has a rubber lining to prevent wear and tear of the line. Experienced riders can reduce the depower range, while short riders can limit the range of the bar so it remains within easy reach. Please ensure yourself to tighten the screw to avoid a sliding ball.



*image 7*

**g) Changing The Chickenloops Provided With Your Kite**

The Switchcraft comes with two Chickenloops in order to be adjustable to riders' individual preferences. Wakestyle fans will love the large Chickenloop, as it facilitates hooking-in.

The 5<sup>th</sup> line must not pass through the hole in the loop: untie it from the loop; pull off the rubber coating in order to fine-tune and pull out the line. Now hook the other loop into the QR. Tie the loop back to the 5<sup>th</sup> line and double-tie the rubber loop onto the line.

### h) Adjusting Safety Stopper Ball Position To Different Kite Sizes

The safety stopper ball prevents the bar from sliding forward too far.

In order to take pressure from the kite, it is enough if the bar travels up to the point on the safety line where the kite is unable to take on a profile. In order to guarantee a safe re-launch, the stopper has to be placed at a reasonable distance from the bar. The 5<sup>th</sup> line passes through the stopper ball twice at about 2.5 m from the bar. Thanks to this, the range of the bar can be adjusted to the kite size.

Loosen the 5<sup>th</sup> line at the stopper ball, bring the ball into the desired position and fasten.

The table below lists the stopper ball positions on the fifth line for different kite sizes.

All sizes are approximate and refer to the distance between bar length and stopper ball (kite is fully powered, adjuster is open). Allow for +/- 2-3 cm.

### Safety Stopper Ball

The safety stopper ball has to be adjusted for each kite size individually by loosening the 5<sup>th</sup> line and moving the ball up or down.

The safety stopper ball limits the upward range of the bar once the safety is activated. If you intend to use the same bar for different kite sizes, it might be useful to mark the stopper ball's position on the 5<sup>th</sup> line for each size with a water resistant marker.

<b>Prima Donna II</b>	
PD II 15.0 m <sup>2</sup>	222cm
PD II 13.0 m <sup>2</sup>	212cm
PD II 11.0 m <sup>2</sup>	198cm
PD II 9.0 m <sup>2</sup>	184cm
PD II 7.0 m <sup>2</sup>	180cm

<b>DaVinci and DaVinci Bat</b>	
DV 15.0 m <sup>2</sup> Bat	270cm
DV 12.0 m <sup>2</sup> Bat	234cm
DV 10.0 m <sup>2</sup>	191cm
DV 8.0 m <sup>2</sup>	165cm
DV 6.0 m <sup>2</sup>	145cm

<b>Wild Thing II</b>	
WT II 16.5 m <sup>2</sup>	233cm
WT II 13 m <sup>2</sup>	192cm
WT II 10 m <sup>2</sup>	168cm
WT II 8 m <sup>2</sup>	155cm
WT II 6 m <sup>2</sup>	145cm

#### **4.) Maintenance & Service**

Each single part of the Switchcraft was built for minimum wear and tear and maximum longevity in mind.

As with all mechanical and moving parts, sand can lead to increased wear.

Lines that show signs of wear and tear or fraying must be replaced as soon as possible.

Knots can reduce line strength by half.

#### **Maintenance of the Switchcraft QR:**

We strongly recommend you check your QR if it has been in contact with salt water and sand. These, as well as any kind of dirt can damage the QR. Disassemble and wash the QR in freshwater as often as possible. Also, treat with silicone oil or a similar substance and ensure full functionality after the long breaks or storage.

