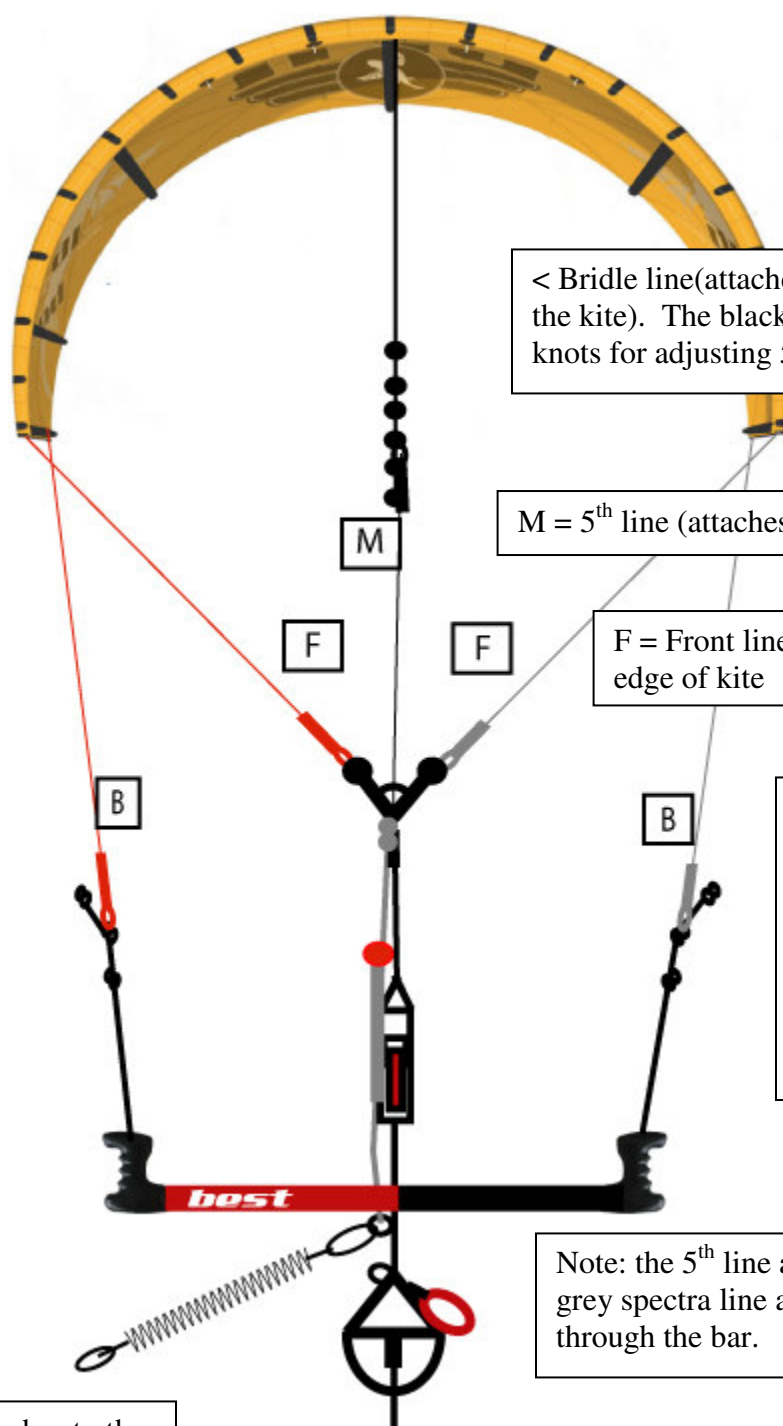


**OVERVIEW**

Here is what the finished set-up will look like, with the kite flying in the air.

Note: Red lines on the left. Grey lines on the right.



< Bridle line(attached to the LE of the kite). The black dots are the knots for adjusting 5<sup>th</sup> line tension.

M = 5<sup>th</sup> line (attaches to the bridle)

F = Front lines, attach to leading edge of kite

B = back lines, attached to second knot on the leader line (unless you have adjusted the length of your depower line)

Note: the 5<sup>th</sup> line attaches to the grey spectra line and runs through the bar.

Safety Leash attaches to the steel ring on the 5<sup>th</sup> line. Due to it's position, it will not wrap around the bar during rotations.

Here are the parts you will need:

## 1) CARBON BAR



We do not recommend that you convert an 04 bar to a kick upgrade, as the 04 bar was not designed with a kick upgrade in mind: the hole in the center of the bar does not have enough space for the kick spectra line to pass through properly.

You can also convert a swivel bar, if you already own one. However, you'll have to replace the depower/sheeting strap and depower loop/line, and buy the ones that are standard on the carbon bar (it's a more expensive conversion). Also, you'll need to replace your lines with a kick line set, even if you have a standard 5-line setup, due to the fact that the 2 outside lines need to be 5m longer than the inside and 5<sup>th</sup> lines, due to the requirements of the upgrade kit itself.

## 2) KICK UPGRADE KIT

(Non-Bungy) (Bungy/5<sup>th</sup> line)

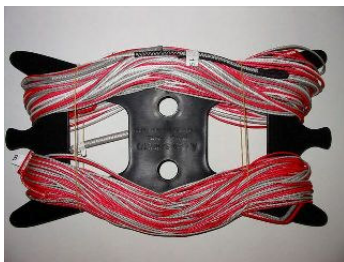


The kick upgrade kite consists of 2 lengths of grey spectra line.

The line on the left is straight spectra line, without any “bungy” in it ... the non-bungy. This is the line to which you will attach the center lines.

The line on the right is a “bungy line” ... with a red stopper ball and a stainless steel ring on it. This is the line to which you will attach the 5<sup>th</sup> line.

## 3) KICK LINE SET



The kick line set is a 5-line set. The 2 outside lines are 5m longer than the center and 5<sup>th</sup> line.

The 2 left lines (inside/front and outside/back lines) are red, the 2 right lines are grey, and the 5<sup>th</sup> line is white.

The outside/back lines are marked with a “B,” the inside/front lines are marked with an “F,” and the 5<sup>th</sup> line is marked with an “M.”

## 4) LEASH WITH QUICK RELEASE



The leash is an inherent part of the kick bar system, and only with a leash is the system fully safe and functional. The leash activates the 5<sup>th</sup> line safety system, and prevents you from losing your kite if you unhook and let go of the bar.

You can use any kind of leash, but it should have a quick release built into, making it easier to get away from the kite in an emergency situation. We recommend that you use the Best Safety Leash, which has been specifically designed for use with the kick bar.

## Prepare your bar and lines

- 1) Lay the bar on the ground. Make sure the red handle is on the left.
- 2) Remove the wrist leash from the bar.



3) Lay out your flying lines, as if you were going to connect them to your bar, but **do not connect them yet**. It will help keep everything straight if you hook the ends of the lines to a nail, on a fixed point, the line length away from the bar.

**Note:** the two red lines are the left flying lines, and the grey lines are the right flying lines.

The outside/back lines are marked with a “B” for “back”, and the inside/front lines are marked with an “F” for “front.” The white line is the 5<sup>th</sup> line.

The outside lines are 5m longer than the inside and 5<sup>th</sup> lines.

The “marked” ends are the ends that attach to your kite, so when you roll out your lines, make sure the unmarked ends are the ones closest to the bar.

## Now, hook everything up.

First, look at the depower strap on the bar”



There are two short grey spectra lines that come off the end: the one on the left has 2 knots on it, and the one on the right has a stainless steel ring.

**Note:** right now, the knot doesn't line up with the bottom of the ring ... but it should.

So ... 4) adjust the second knot so that it is equal to the length of the bottom of the ring. Either undo the knot and retie it, or just tie a third knot.



The point is to get the left and right lines as even as possible so that when you attach your center lines, they'll be of equal length:



5) Unpack the kick bar upgrade kit (the 2 lengths of grey spectra line).

One is a non-bungy line (on the left), the other has some bungy in it, (the one with the stopper ball and ring, on the right).

Non-Bungy      Bungy/5th



6) Take the **non-bungy line first**, the one without the stopper ball. One end has what looks like a “V” at the end of it (with a loop in between) ... the **other** end is a regular loop like on any of your regular kite lines. Take the other end (with the regular loop) and make a lark’s head knot. Loop it over **both** the ring and the (adjusted) knot on the depower strap.



7) Tighten the lark's head knot.



8) On the **other** ("V") end of the non-bungy line, larks-head each of the two center flying lines to the ends of the "V" ... the red fly line on the left, the grey fly line on the right.



9) Now, take the white 5<sup>th</sup> line, and run it through the through the "loop" between the "V" (where you just connected your center lines to the non-bungy line).



The knotted line at the bottom left is the knotted end of the OTHER spectra line, the one with the bungy and stopper ball >>>>

This is a little bit of a departure, but ...

10) Take the **bungy** spectra line: one end is knotted, and the other end has a ring attached to it.

Lay the ring end down towards the bar, as shown in the picture on the right ---->>>



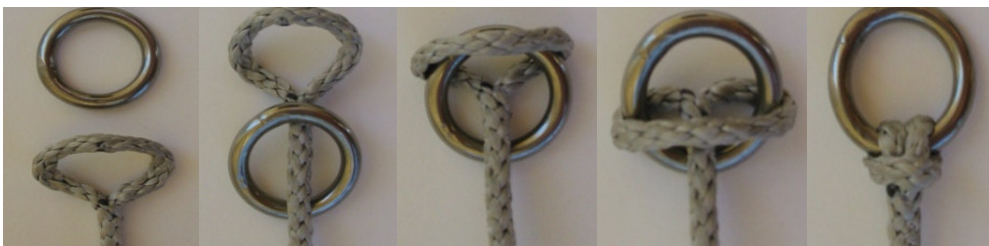
11) Take the knotted end of the bungy spectra line, and larkshead it to the 5<sup>th</sup> line (which was the line you ran through the center of the "V").



12) Remove the ring from the spectra line and run it through the bar.



13) Reattach the ring.



This is how the bar will look.

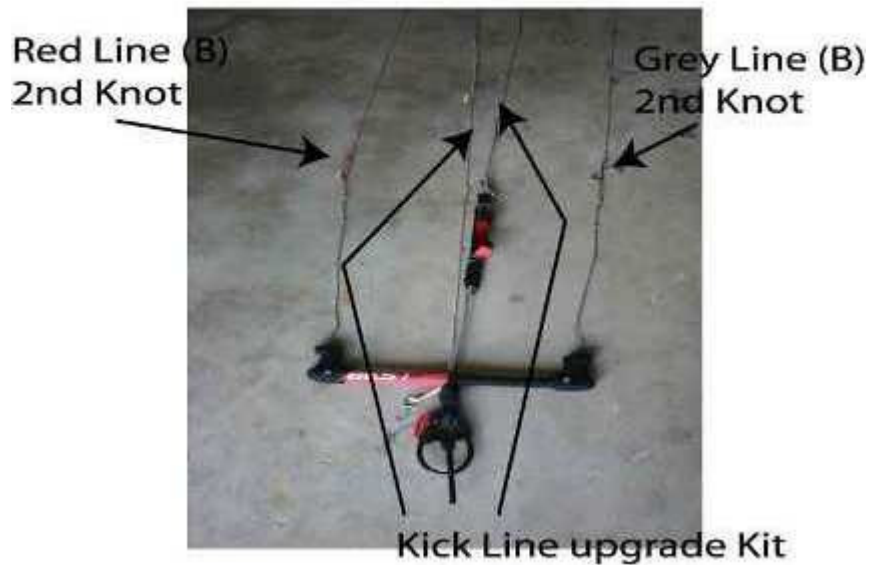


When you are ready to launch your kite, hook your safety leash to the ring on the 5<sup>th</sup> line, and to a ring on your harness.



14) Connect your back lines to the second knot on the outside leader lines on your bar.

**Tip:** If you want to shorten your depower line, don't forget to shorten your back lines accordingly ... instead of attaching your lines to the 2<sup>nd</sup> knot, attach them to third knot.



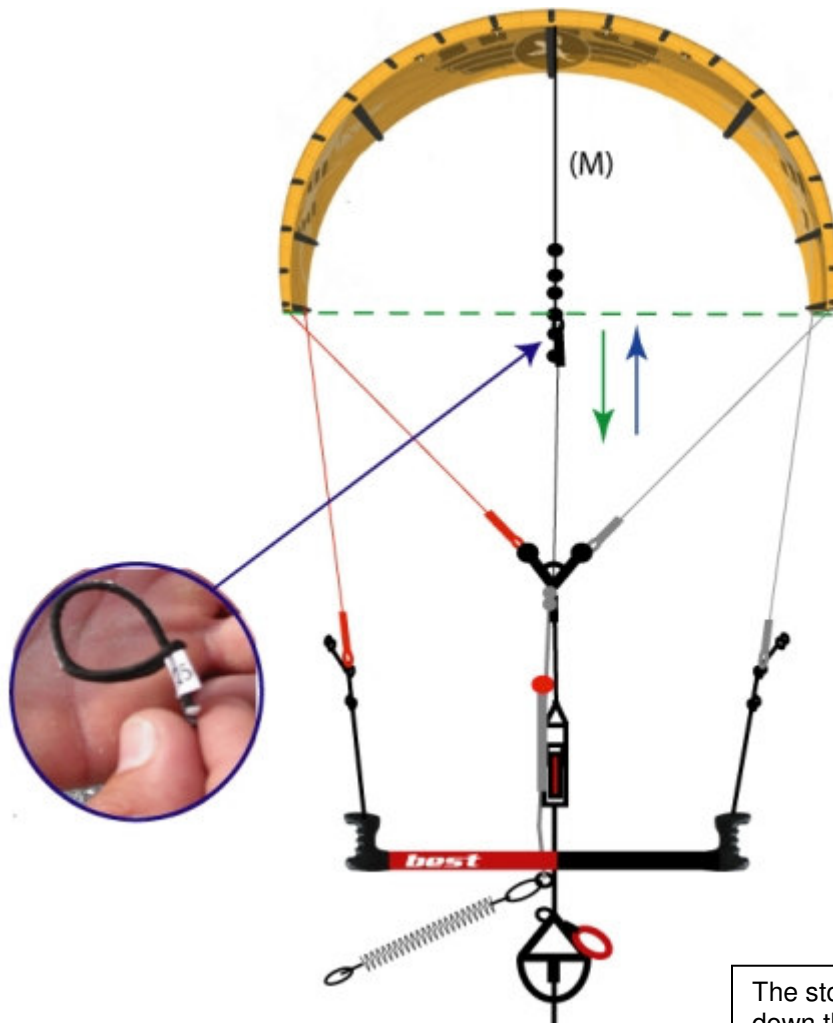
When you're ready to fly your kite, you will attach the middle (5<sup>th</sup>) line to the bridle line on the kite, as follows:

- 1) Imagine a line between the wingtips (green broken line).
- 2) Connect the middle line to one of the knots under this line, using a larks head knot. In general, there should be slightly less tension on the 5<sup>th</sup> line, than on the center lines.

If you feel the kite does not have enough power, the tension on the 5<sup>th</sup> line might be too high. Connect the 5<sup>th</sup> line farther away from the leading edge (green arrow).

If you feel that the 5<sup>th</sup> line has too much slack, connect the 5<sup>th</sup> line closer to the leading edge (blue arrow).

It is helpful, especially the first time you set up your kick bar to your kite, to have someone help you launch and land your kite, as you may have to do this a number of times to get the tension just right.



The stopper ball can be moved up or down the spectra line with the allen key, to the preferred distance that you want your bar to move away from you when you let go of the bar.