



BASE Canopy User Manual



(11.2018)

The information contained in this manual is time sensitive. Because the sport of fixed object parachuting (BASE jumping) is evolving rapidly, some of this information will change over time. Contact Apex BASE if you have any questions about your gear that are not addressed in this document.

!!! WARNING !!!

Parachuting is dangerous. You can be injured or killed while BASE jumping as others have, even when your equipment is used properly. It is your responsibility to prepare yourself and your family for any and all possible outcomes that may arise from your participation in this activity. Parachutes can malfunction even when they are properly designed, built, assembled, packed, maintained and used. The results of such malfunctions are sometimes serious injury or death. If you are unwilling to accept full and complete responsibility for your activity you may return unused equipment to Apex BASE for a complete refund (before use, and within 30 days of purchase). By keeping or using any equipment you are accepting full responsibility and agree not to take legal action or make claims against The Uninsured Basic Research Inc., DBA Apex BASE, its directors, owners, shareholders, officers, employees, designers, or suppliers.

Disclaimer – No Warranty

Because of the unavoidable danger associated with the use of parachute equipment, the manufacturer makes no warranty, either express or implied. The equipment is sold with all faults and without any warranty of fitness for any purpose. The manufacturer also disclaims any liability in tort for damages, direct or consequential, including personal injuries, resulting from a malfunction or from defect in design, material, workmanship, or manufacturing whether caused by negligence on part of the manufacturer or otherwise. By using this equipment, or allowing it to be used by others, the buyer, and/or user, waives any liability for personal injuries or other damages arising from such use. If the buyer declines to waive liability on the part of the manufacturer, the buyer may obtain a full refund of the purchase price by returning the equipment and all parts, before it is used, to the manufacturer within 30 days from date of delivery with a letter stating why the equipment was returned.

Apex BASE Parachute Systems

Description

All modern Apex BASE canopies are 7-cell designs with low aspect ratios, bottom skin vents, and relatively docile handling characteristics when compared to more common skydiving parachute designs. It is these design elements, among others, which differentiate them from more common parachutes. It is highly recommended that you seek proper training and instruction as to the correct assembly, packing, and use of this system before attempting to BASE jump.

While each of our canopies (FLiK II, Lynx, Lobo) have their own unique performance characteristics they are all highly versatile and designed for all-around BASE jumping use. Each of these canopies can be jumped on low slider-off objects all the way up to wingsuit flights (and everything in between). Understand the opening and flight characteristics of your canopy before deciding to take it on any particular jump, and if you have questions about your canopy do not hesitate to contact us.

Before BASE jumping any canopy it is recommended that you first fly it in the skydiving environment which offers relatively more safety and increased margin for error when compared to BASE.

Assembly

These canopies have three areas of assembly - the connector links to the risers, the toggles to the control lines, and the bridle attachment to the bridle.

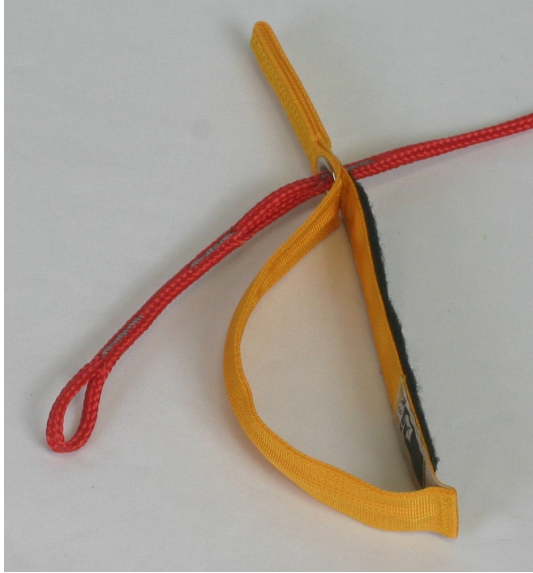
- 1. Connector Links to Risers:** Each connector link will have its own continuity concerns. Be sure to check each connector link separately for proper continuity. Tighten all 4 connector links by hand as tight as possible. Then with a 9mm wrench apply another quarter turn to all 4 links. No other tool, only a 9mm wrench, should be required to tighten or loosen any link. Do not over tighten any link as over tightening can crack the barrel of the link. A cracked link may fail during use. Slide the link covers over the tightened links. These covers are not only slider bumpers, link covers help maintain proper orientation of the link

during deployment. Be sure to leave a portion of the link covers ABOVE the hard link, to protect your slider grommets from coming into contact with the stainless steel links. Do not place these link covers so low on your links that the brass slider grommets are able to make contact with the steel links when the slider descends. These links can damage your brass slider grommets and ultimately damage your lines.

- a. **Soft Links:** If you are using Soft Links to connect your canopy to your container be sure to educate yourself on how they are assembled, as well as the pros and cons associated with them. Soft links can be more time consuming to install/remove, but provide more strength and comfort than stainless steel connector links with less weight.

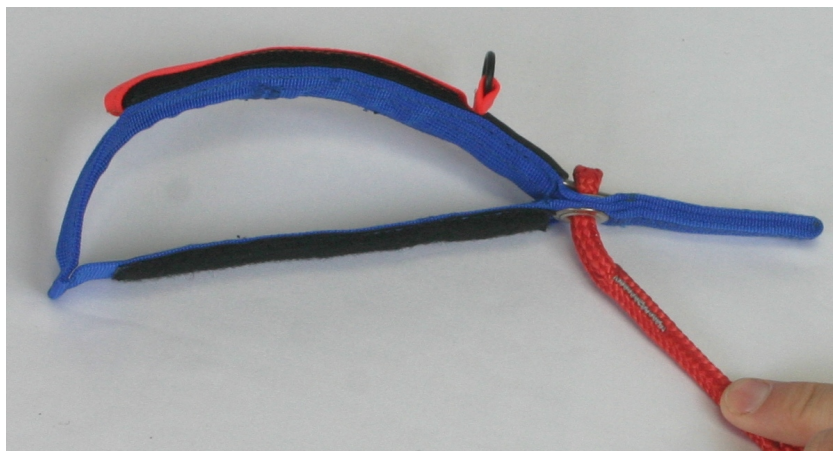
2. Toggles to Control Lines:

- a. **Slider Off (EZ Grab Toggles):** Your toggles will need to be assembled to your canopy control lines. Depending on whether you'll be jumping with or without a slider there are a few different ways to route your control lines and we recommend that you educate yourself about these options. To attach your toggle to the control line pass the control line through the toggle grommet from the velcro side and then pass the bottom of the toggle through the toggle setting in the control line. Pull the line taught and make sure your toggle is securely attached to the line. For more information on Apex BASE canopies that have two toggle settings, see [THIS ARTICLE](#).



- b. Slider On (WLO Toggles):** WLO Toggles should be used when jumping slider up and are easily assembled to your canopy control lines. Pull down the velcro lanyard on the front of the toggle until the pin is pulled far enough below the grommet to allow your control line to pass through. Pass the control line through the toggle grommet from the velcro side (rear side from the jumpers perspective) and pass the pin through the toggle setting on the control line. Make sure the pin is fully seated and

the control line is securely assembled to the toggle. Re-mate the lanyard velcro on the front of the toggle and re-stow the retainer tab.



3. Bridle Attachment to Bridle: A 2 pin bridle will come as part of your harness-container system and must be properly assembled to your canopy.

- a. If you are using a Multi-2 system, be sure to correctly assemble the Multi-2 lines to your canopy using larks head knots. The Type 4 (1 inch) Tape will be assembled to the canopy main attachment point. The Dacron line will assemble to the Multi-2 attachment point which is aft of the main attachment point toward the tail of the canopy.

- b.** Locate the loop on the bridle end closest to the pin side of the bridle. Pass this loop through the main bridle attachment point on your canopy, or connector loops on the Multi-2 lines.



Multi-2 Bridle Attachment: Connect the Multi-2 components to your canopy using a larks head knot.



Multi-2 Bridle Attachment: Connect the bridle to your Multi-2 system components using a single larks head knot.

- c.** Pass the remaining bridle through the same loop creating a larks head knot.
- d.** *NOTE: If you are not using the Multi-2 Tail Pocket Support System on your Apex BASE canopy be sure to affix the bridle ONLY to the main attachment point and NOT the Multi-2 attachment point. The main attachment point is closer to the nose of your canopy, and the Multi-2 attachment point is toward to the tail of the canopy.*



If you are not using your Multi-2 System be sure to connect your bridle ONLY to the main attachment point, and not the Multi-2 attachment point.

Brake Settings

Your canopy will come with two pre-installed brake settings. The deeper brake setting is designed and tuned for use in the slider off environment, while the shallow brake setting is designed to be used with a slider on higher airspeed jumps and/or where object strike is not a concern. Educate yourself about the different brake settings, their applications, and strengths/weaknesses before jumping your BASE parachute.

Sliders

Apex BASE offers sliders in three sizes (measured in inches):

- 1. 17 x 24:** For canopies sized 200 sq./ft. and under.
- 2. 20 x 24:** For canopies sized 210 - 250 sq./ft.
- 3. 23 x 28:** For canopies sized 260 sq./ft. and above.

Only use the appropriately sized slider with your canopy, and we recommend removing your slider when it is not being used on low airspeed deployments.

Apex BASE also offers 4 different styles of slider:

- 1. Large Mesh Slider**
- 2. Small Mesh Slider**
- 3. Slow Slider**
- 4. Sail Slider**

Take the time to educate yourself about each of these different designs and when their use is most appropriate. Feel free to reach out to us if you have any questions about which slider is most appropriate for your particular application.

ALWAYS PACK AND CONFIGURE YOUR GEAR APPROPRIATELY FOR YOUR JUMP.

Tailgate

The tailgate was invented by the team at Apex BASE and has become a standard safety feature on all BASE canopies from every major manufacturer. It's function is to contain your control lines during deployment, reducing significantly the risk of certain malfunctions. Apex BASE recommends using a tailgate on all BASE jumps, slider up or slider off. Extra caution should be taken when using a large mesh slider and tailgate in order to ensure they do not interact with one another during canopy deployment. Use only a small rubber band on the tailgate, as using large rubber bands and/or bands not commonly used in parachuting can result in a malfunction where the tailgate can fail to release.

Maintenance

Apex BASE canopies have several points of inspection and a few points of common maintenance. The entire system must be inspected before each pack job. Inspect all fabric, stitching, lines, velcro, and your tail pocket for damage and/or wear. Inspect everything you can see. Look more closely for the things you can not see as easily during normal packing. Velcro will wear

out due to use so be sure to replace as necessary. Tail pocket velcro must be replaced when worn, do not wait for your tail pocket velcro to begin to fail before replacing it.

Slider grommets should be burr free, meaning the inner passage of the grommet should be smooth and free of sharp edges that may damage your lines. The main bridle attachment point and Multi2 attachment point must be inspected.

Any major repair involving the canopy and/or its components must be returned to Apex BASE for quality assurance. Use only Apex BASE replacement parts.

Only pack your canopy when it is dry. Wet canopies can easily create mold inside your container when packed.

If you are unsure of your systems condition it can be returned to Apex BASE for an inspection. Never jump any gear unless you are completely confident in its airworthiness. Apex BASE recommends (at minimum) annual inspections for all single-parachute systems. Annual inspections can be done in our Southern California factory.

Contact Us

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Never hesitate to contact us with questions or comments about our gear. We stand behind all of our products.

All Apex BASE products are designed and built in the USA.

