

# ADVANCE OUT OWNER'S GUIDE

**ADVANCE**  
LOIN DEVANT ▶▶

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| Advance | Size  | SN#   | Manufacturing date |
|---------|-------|-------|--------------------|
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## Introduction

BasiK Air Concept became the "second" French manufacturer with the Advance container system.

As the name suggests, Advance is a new generation of container system with many innovations.

The reserve container is characterized by the no-side-flaps technology and its partially exposed reserve pilot chute. The no-side-flaps technology improves the extraction speed of the reserve free bag and reduces the likelihood of container closing mistakes.

When you look at the Advance, what you see is the reserve free bag itself, reinforced with the same material of which the container is built. Should you be dragged on the ground after a bad landing, the free bag will offer the same resistance as regular flaps found on other container brands.

The reserve free bag is protected on its lateral and top sides to avoid any snagging with the main risers. The Advance container system is equipped with the 3-rings release system. Other standard features are described below. The harness is available in 2 types of webbing, type 7 or type 8 and you can even mix them.

The Advance system is equipped with a R.S.L. at no extra charge if needed.

Design and testing of the Advance were accomplished over a period of 15 months, and has resulted in being one of the most innovating rigs on the market. We remind you that you have to be certified to assemble and pack the Advance container system.

Advance comes with the following options included at no extra cost:

Hip rings

Velcro-free toggles

Front loop risers

Custom harness size

Custom colors\*

Kill-line main pilot chute

Free-fly secured main opening pad

Z knife on ring cover

Leg strap junction

R.S.L system

\* According to available list

The Advance container system has been tested in accordance with AS-8015B and EQ-530-03, and is approved under TSO C-23d, JTSSO-C23d and under French certifications QAC 121 and EQ-530-03.

## Parts List

The Advance container system is delivered with the following components:

- Harness and container
- Main risers with steering toggles
- Main deployment bag with kill-line pilot chute or bunjie installed
- Breakaway handle
- Reserve handle
- Reserve free bag and bridle\*
- Reserve Pilot chute\*\*
- Reserve steering toggles
- Main closing loop
- Reserve closing loop
- One extra main closing loop
- Rubber bands
- Owner's guide

All Advance harnesses are manufactured Cypres or Vigil-ready. FXC setup is an option. All instructions to install these AAD can be found in the Student additional manual either.

No other brand component can be used with the Advance container system.

All components listed above can also be purchased individually from BasiK Air Concept and its official dealers. Advance limitations of use are 110 kg at 150 kts.

BasiK Air Concept cannot be held responsible in case of an use over these weight and speed limits except for Student sizes 3 and 4 which are certified at the same airspeed but at a weight limit of 130 kg.

\* Only the Advance reserve free bag can be used with the Advance container system.

\*\* Only the Advance reserve pilot chute can be used with the Advance container system.

Install the AAD main unit into its pocket, cable connexion must be facing downward. **Airtec installation kit is only allowed for Cypres AAD type.** Stow remaining cables and route the cutter and the control unit into the white type 4 /1.5" channel toward the collar. **For Advance IN container type, please report to the Advance IN additional guide.**



Close the protecting scratch flap. Set the cutter in its elastic band. Route the control unit through the slit at collar level.



Slip the control unit into the back-pad and stowed it in its place. Close the protecting flap. Installation is done. It is possible to install the control unit in the right ring cover (only available under request for student Cypres unit).



## Reserve container closing instructions for the Advance OUT container system

This chapter deals with the procedures for packing a ram air reserve canopy into the Advance OUT container system. Assembly and packing of the reserve must be accomplished by a certified rigger, or by the manufacturer of the Advance container system. Before starting to pack fill your rigger's log book copy down the type of canopy, S/N and DOM from canopy data panel.

Required tools:

One temporary pin (with warning flag attached)

One pull-up cord (120 cm minimum length)

One packing paddle or long bar

One T bar

Two 15 cm strips of 2,54 cm velcro loop

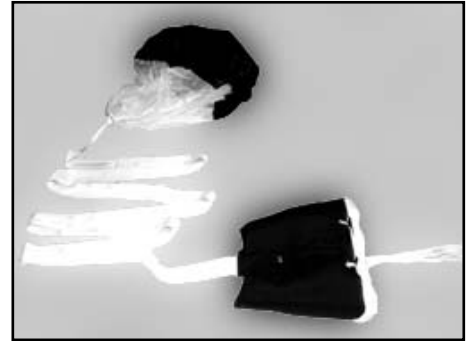
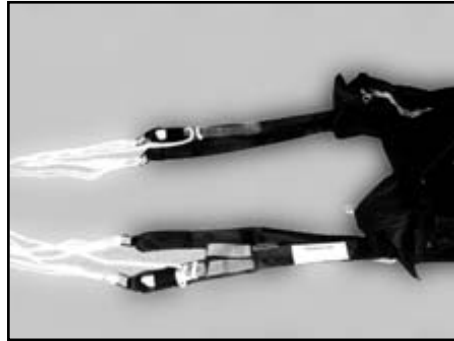
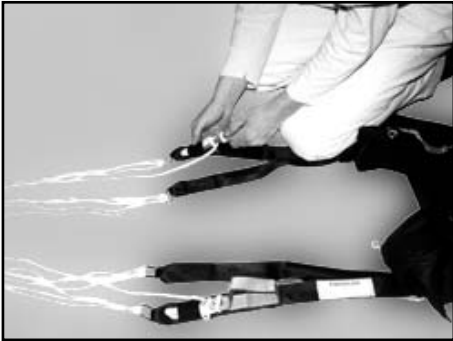
The closing loop must be between 8 cm to 8,5 cm long (report page for the appropriate length).

Make a thorough inspection of all components of the reserve parachute. Reserve pilot chute, Reserve bridle, Free bag, Reserve canopy, Lines, Slider, Connector links, Harness and container system.

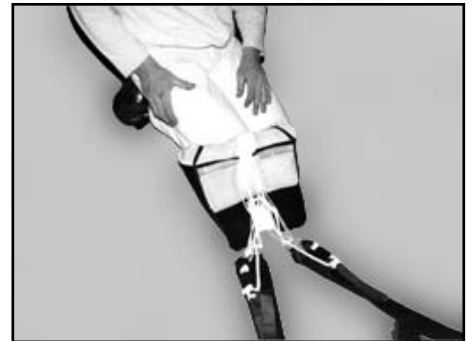
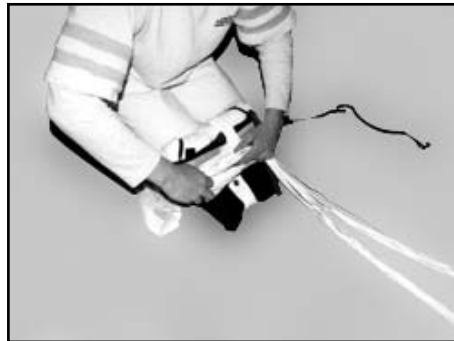
Follow the canopy manufacturer's directions for the inspection, attachment to risers, routing of control lines, attachment of steering toggles, setting deployment brakes, and for flaking and folding the reserve canopy. Parafun highly recommends the Pro-pack for all ram-air reserves packed into the Advance container system. This Pro-pack can be done in different manners. The purpose of this guide is not to explain to you how to pack a reserve canopy but only how to set the free-bag into the Advance container system. However, because of the new shape of the reserve container, it is important to fill both upper corners and the bottom of the free-bag as much as you can. Avoid to have a lot of material in the sides of the free-bag. This filling must be symmetrical to help you get a good secure hold of the two upper side closing devices.

Set the deployment brakes on each side by pulling the control line down through the guide ring until the brake loop passes through it. Insert the stiffened upper portion of the toggle through the loop and pull it up tightly against the ring guide. S-fold the slack between the toggle and the brake-set, and stow it under the elastic located on top of the guide ring. Mate the scratch on the toggle with the one located on the riser.

Place the bulk of canopy on each bottom side of the free bag. Lock the mouth of the free-bag by making two stows with the suspension lines in the safety stow. Stow the remaining of suspension lines in the line-stow pouch on the back of the bag. This is where it is useful to use the velcro strips mentioned in the list of tools. Cover the hook velcro on the pouch with the strips of loop velcro while stowing the lines into the pouch. S-fold the lines making sure to match the full width of the pouch.



Leave a slack of 40 cm from the free bag to the risers. Remove the strips of loop velcro and mate the velcro at the mouth of the pouch, making sure that none of the suspension lines are trapped by the closure.

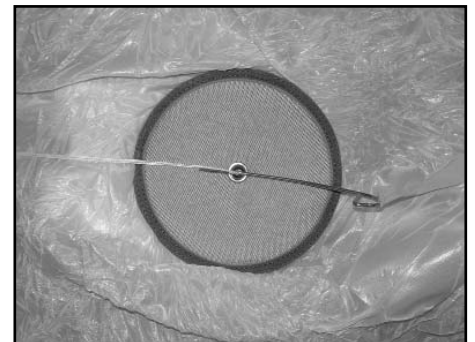


Prepare the reserve container. If the Cypres is installed, thread the reserve closing loop through the Cypres cutter, and then the pull-up cord through the reserve closing loop. Lay the reserve risers in the container so that the connector links are in the lower corners of the container.



Thread the pull-up cord and the reserve closing loop through the grommet of the free-bag. Lay the bag in the container with the lines stow pouch facing down. Lay the lines protection flap located over the AAD pouch on the free bag. Secure with the temporary pin. The bridle must stay over the reserve container. S-fold 30 cm of bridle up and down on the free bag. Close the two upper closing devices by setting them over the two corners of the free bag. Thread the elastic through the grommet and secure it with 3 cm maximum of the free bag bridle after making a needle form to the bridle. Always keep the bridle toward the reserve container to avoid any misrouting during the closing procedure. Make two folds up and down right over the closing system. For the Advance container system equipped with the R.S.L. system report to page 8. "S" fold the remaining free-bag bridle up and down both sides of the temporary pin and pull-up cord. Route the pull-up cord through the pilot chute and out through the cap. Be careful to not route through in and out the springs.

Seat the lower end of the pilot chute on top of the free bag grommet and bridle, keeping the pull-up cord tight. Compress the pilot chute and lock it with the temporary pin. Now pull all fabrics out from under the top plate so that the pilot chute fabric is spread out. At this point, check the length of the closing loop. If the pilot chute's top plate can rock back and forth or from side to side, the loop is too long. Shorten it so that when the pilot chute is compressed and locked with the temporary pin, the top plate is firmly seated in the nest formed by the shape of the free bag.

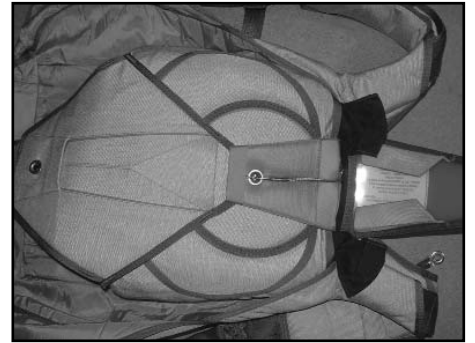
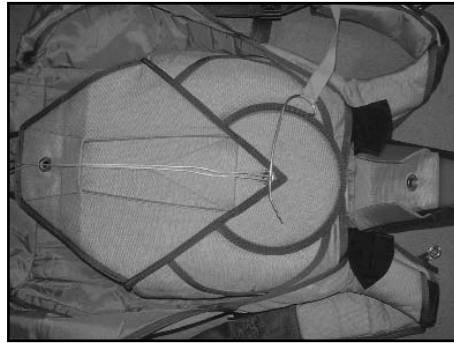
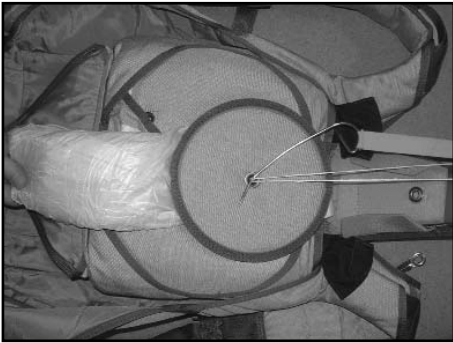




Fold or roll the pilot chute fabric at the top of the pilot chute parallel with the top of the container, and push this roll under the top plate of the pilot chute. Stow the remaining of the pilot chute fabric down the sides of the pilot chute top plate. Push the excess fabric under the pilot chute top plate. Fan out the pilot chute fabric excess, so that it extends wider than the bottom flap.

Make sure to keep the point of the fan narrow and tight to the middle bottom of the pilot chute plate. Close the bottom flap and secure it with the temporary pin.

Close the top flap and secure it with the temporary pin. Push the side tuck flaps under the ears of the bag.



- 1) Without R.S.L. Close the container with the reserve cable pin. Remove the temporary pin.
- 2) With R.S.L. Thread the reserve cable through the upper guide ring then through the R.S.L. ring, then through the lower guide ring. Close the container with the reserve pin. Remove the temporary pin.



This system doesn't replace the normal activation of the reserve handle. As any mechanical system, it might not work. Remember, you always need to make the full safety procedure, cutaway the main and activate the reserve. For the few cases where immediate reserve activation may not be desired, the Advance R.S.L. features a quick-release which can be used to disconnect it. This quick release consists of a snap-shackle which is normally attached to a small ring on the inboard side of the left main riser. Release of the snap-shackle is accomplished by a quick tug on the red ribbon attached to the release ring. Some jumpers feel that the R.S.L. should not be connected during Canopy Relative Work, preferring to disconnect from the main and then fall free of a "wrap" before deploying the reserve. Also, if winds are high, the jumper may disconnect the main canopy after landing to avoid being dragged. In this case the quick-release can be used prior to landing to prevent an non desired activation of the reserve.

### **Assembling the R.S.L.**

There are two rings mounted on the reserve top flap near the end of the ripcord housing. After installing the reserve ripcord in the housing, the cable must be routed first, through the upper guide ring, then through the R.S.L. ring, located at the end of the R.S.L. bridle and at last through the lower guide ring. It is important to assemble the cable with the rings in this exact order. Before the reserve container is closed, the R.S.L. bridle must be routed out from under the reserve pin flap at the upper left. The velcro of the R.S.L. bridle should be mated to the velcro on the left reserve riser to bring the bridle over the shoulder. Then the snap-shackle can be connected to the small ring behind the inboard side of the left main riser. There should be enough slack in the R.S.L. bridle so that the main riser can be pulled in any direction without putting any tension on the reserve riser. Any slack in the R.S.L. bridle near the reserve flap must be tucked under the reserve top flap. Caution although the R.S.L. is considered to be very dependable, it is only a backup, and should never be relied upon entirely for activation of the reserve. In the event of a breakaway or cutaway, the jumper should follow through by pulling the reserve ripcord handle as if there was no R.S.L. It must also be understood that the R.S.L. will not operate in the event of a total non opening of the main container. Connect the R.S.L. snap-shackle to the small ring behind the inboard side of the left main riser. Your R.S.L. system is activated. To deactivate it, disconnect the snap-shackle.

## Advance main setting instructions

This chapter details packing instructions of setting the main canopy into the Advance container system.

Assembly and packing of the main canopy must be done by a certified person or by the person making the jump, in accordance with. These persons must follow the canopy manufacturer instructions for these operations.

Basik Air Concept cannot be responsible in case of an assembly or packing mistake.

1) Carefully inspect the main canopy, suspension lines, steering lines, slider and grommets, connector links and other parts of the main canopy before assembling it with the risers. Replace or repair any worn or damaged parts. Inspect the deployment bag, bridle, and pilot chute as well.

2) Attach the main canopy to the main risers, making sure that the canopy is facing the same direction as the container system. Each suspension line must be clear all the way from its attachment point through the slider grommet to the connector link without passing around any other line. Make sure the steering lines are clear from the trailing edge of the canopy through the slider grommets and through the ring guides on the rear risers to the steering toggles. Each steering toggle must be securely tied to its control line at the location specified by the canopy manufacturer.

Make sure as well that the connector links are tight enough so that they cannot be loosened with the fingers alone. If soft links are used, please report to the canopy manufacturer to install and secure them.

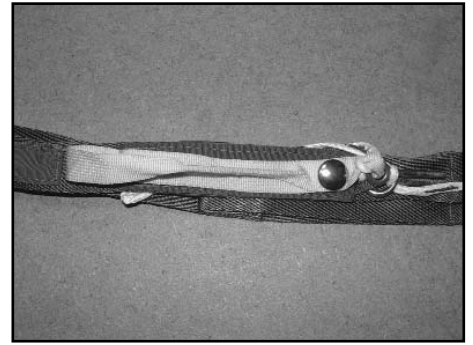
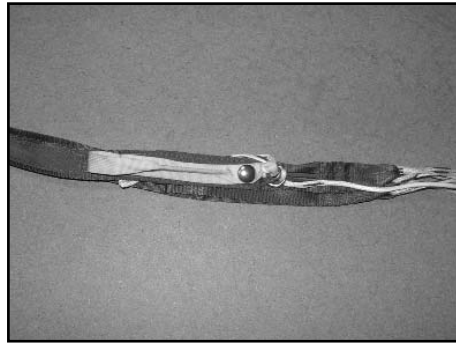
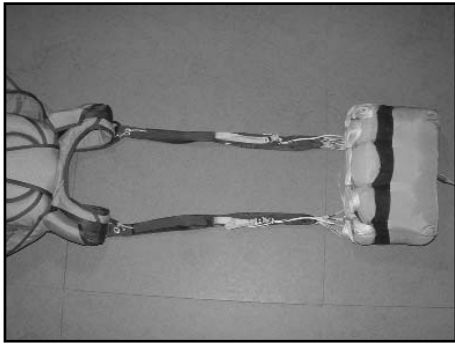
3) Attach the connector link of the main bridle (located inside the main bag) on the ring located at the top of the main canopy and tighten it enough.

Set the deployment brakes on each side by pulling the control line down through the guide ring until the brake loop passes through it.

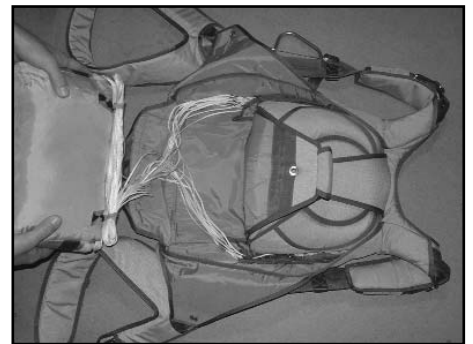
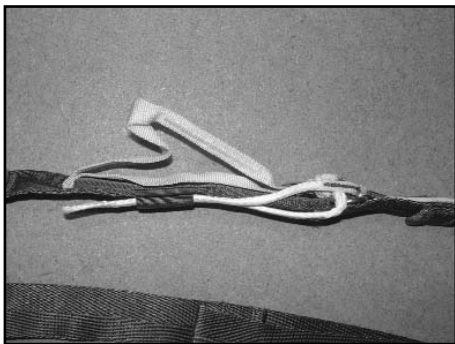
Insert the pin of the toggle through the loop and push it up tightly against the ring guide. Insert the pin of the toggle into its locking stow. Insert the lower part of the toggle into its locking stow too.

S-fold the slack into the channel located behind the riser.

At this point, refer to canopy manufacturer's guidelines for packing. Before setting the main canopy into its bag, you must cock the kill line of the main pilot chute (if used).



After the packing has been set into the main bag it must look like the below left picture.

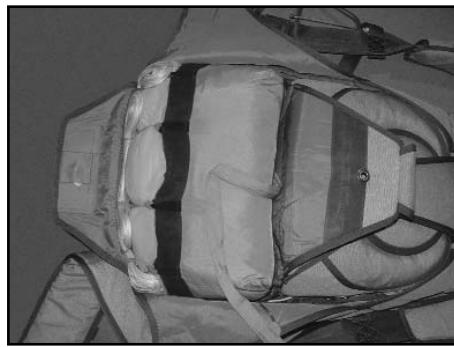
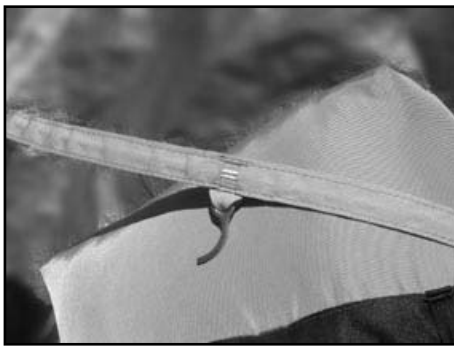


Lay the risers between the sides of the reserve container and the risers covers. Close the risers covers and stow the risers straight on the side of the reserve container.



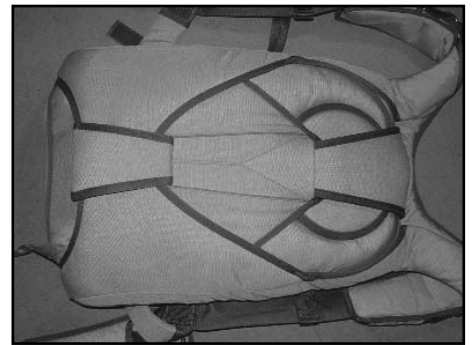
Before setting the main bag into the container be sure to have cock the kill line system of your main pilot chute (if used). **The colored mark must be visible in the window. If not re-cock the system.**

Set the main bag into the container with the line stows oriented toward the bottom. This position is important; if the line are oriented toward the top, it may be more difficult for the pilot chute to extract the bag. Also, the lines can snag easily any part of the container.



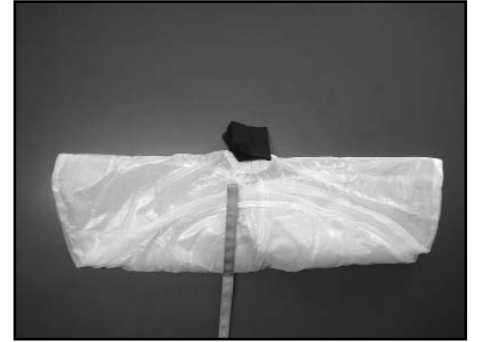
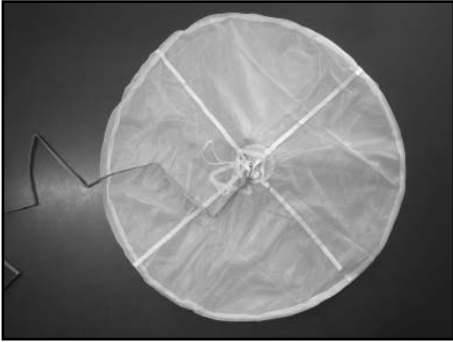
Pilot chute bridle must be route out toward the upper right side. Closing flap order is:  
-Bottom -Up -Left -Right

Secure with the pin located on the pilot chute bridle. Bridle must be laid vertically as shown on the middle above shot. Close the main protecting flap and stowed the remaining bridle under the right main flap toward the corner and the pilot chute pouch.



Lay the pilot chute out flat with mesh side up. Fold some of the excess bridle on top of it, and fold the pilot chute in half over the bridle. Now fold the curved side up about 10 cm. Fold the bridle twice. Leave some space between the bridle and the ripcord.

Fold the pilot chute into thirds, and then roll it tightly until having cylindrical shape. Tuck the slack of bridle into the pouch, then tuck the pilot chute. Spread widely the pilot chute into the pouch.



Set the FF pad into its place. The longer tuck tab goes into the pouch over the pilot chute. Handle is oriented toward the pouch.

### **Closing the Advance container with a pull-out opening system**

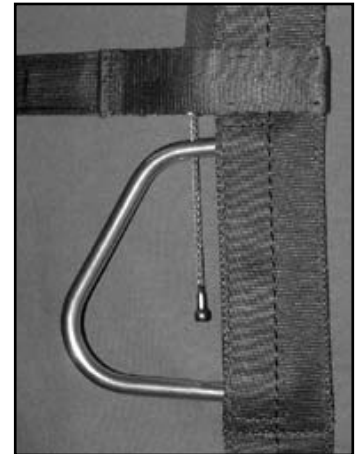
#### **FIRST COCK THE KILL LINE OF THE PILOT CHUTE**

- 1) Mate the velcro from pull-out pad with the velcro located under the pull-out pad cover at the right hand corner of bottom flap.
- 2) Stow the bridle in folds 15 to 20 cm long, and lay the folded bridle across the upper part of the bag. Be sure not to tuck these folds down between the bag and the bottom of the reserve container. Doing so may delay the action of pilot chute.
- 3) Loosely fold the pilot chute and lay it across the bag.
- 4) Close the flaps as follow, bottom-top-left-right, securing the closing loop with the pin.
- 5) Tuck the slack under the right side flap.
- 7) Close the protecting flap.

Be sure that the connecting knot between the pilot chute and the bridle is not trap under the flap.

Shots of hooktable and pillow breakaway handles.

Shot of reserve handle



### THE 3-RINGS RELEASE SYSTEM

The periodic maintenance of the 3-rings release system is strongly recommended. This maintenance has to be performed every month.

- 1) Extract the cable completely from its housing and disconnect the risers.
- 2) While the system is disassembled, closely inspect it for wear. Check the white locking loops to make sure they are not frayed.
- 3) Check the velcro on the breakaway handle and main lift web to make sure it is clean and adequately holds the handle.
- 4) Check the cable ends for a smooth finish. The ends are finished at the factory to have a smooth, tapered surface. This prevents the cable from hanging up in the loop. Check the cable ends and consult a rigger or manufacturer in case of a burr or hook is present.
- 5) Check the stitching, including that which holds the large rings to the harness.
- 6) Pull the housings downwards. They shouldn't move downwards more than 1,30 cm.
- 7) Take each riser and vigorously twist and flex the webbing near where it passes through each ring. The idea is to remove any set or deformation of the webbing. Do the same thing to the white loop.
- 8) Check the housings for dents or other obstructions. Use the cable to do this.
- 9) Clean and lubricate the release cable with a light oil such as 3-in-1 brand. Put a few drops on a paper towel and firmly wipe the cable a few times. A thin, invisible film should remain; too much oil would attract grit and dirt, or the oil could become tacky in cold weather, thus requiring more strength.
- 10) Inspect the fittings at the end of each housing. If one of these fittings were to come off the housing, a riser might release prematurely.
- 11) If any wear is found, consult a rigger of the manufacturer before using the Advance.
- 12) Reassemble the system. Double check it. Make sure the risers are not reversed. Only the risers provided by Basik Air Concept are allowed to be installed on the Advance harness/container system. It is formally forbidden to modify the risers or to use any other type of risers.

## **Assembly of the 3-rings system**

- 1) Thread the cable into its housing and stick the handle to the harness. The handle should be positioned as close to the ends of the housings as possible so that no cable is exposed.
- 2) With the rings of the riser facing toward the floor, pass the ring on the end of the riser through the large harness ring from above. Fold it back toward the canopy and riser.
- 3) Thread the smallest ring through the middle ring in the same way, but make sure it does not pass through the large ring.
- 4) Thread the white loop through the small ring only and then through the riser grommet so it pokes out at the back of the riser.
- 5) Thread the white loop through the grommet on the end of the cable housing. The flat side of the cable housing grommet should lay against the riser.
- 6) Thread the yellow cable through the white loop, making sure the loop is not twisted. Make sure you do not bend the cable too sharply or kink it. Insert the free end in the channel on the back of the riser.
- 7) Repeat the above steps with the other riser.

## **Before jumping the Advance container system**

Before using the Advance container system, you must read this guide and proceed to the following checks. These checks must be done at least once a month or after 50 jumps. The maintenance must be done by a qualified person (up to the country of use regulations).

Velcros, spandex pouch and reserve elastic bands closing system

Main and reserve closing loops

Harness, all webbings, chest strap and leg straps

Stiches of the container and harness

Routing of handles, cables and bridles

Housings and cables

Main pilot chute and bridle

3-rings system

Main risers

All hardwares

Grommets

Main deployment bag

R.S.L if installed on your rig



## **Maintenances and Repairs**

Length of the reserve closing loop

From size "Z" to size "2", the length of the closing loop must be set between 8 and 8.2 cm.

From size "3" to size "4", the length of the closing loop must be set between 8.2 and 8,5 cm.

### **Rigging and maintenance**

They are set in 2 categories:

#### **1) Class 1 repair**

Everything can be done by a certified rigger except the following:

Harness - reserve container and all parts identified as a "Part Number" and listed into the capability list (reserve bag - reserve pilot chute - reserve ripcord).

#### **2) Class 2 repair**

All work on the harness and reserve container must be done by the manufacturer. No third party is allowed to proceed to this kind of repair. Only raw material allowed by BasiK Air Concept must be used.

Only the spare parts with a BasiK Air Concept "Part Number" and listed on BasiK Air Concept capability list are allowed to be used with the Advance System since February 1st, 2000.

**We thank you for choosing the Advance system, and we hope for your continued confidence in BasiK Air Concept sarl.**

