



## **Addendum**

# **Packing the Patronus Reserve into the DHT Container**



**Strong Enterprises**

*"The parachute company with imagination"*

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## 1.0 Preparing the Freebag

### 1.0.1

Place bungee loops through grommets on freebag sub flap. Then place four rubber bands on each side flap of the freebag.



### 1.0.2

Larks head bungee loops with chokers on each of the tabs on outside of freebag.



## 2.0 Attaching the Canopy

### 2.1 Front Risers

#### 2.1.1

Take a piece of 550 cord and remove the inside threads. Tie an overhand knot in one end. Cut the end to within 1/4 inch of knot and burn cut end to prevent fraying.



#### 2.1.2

Tie the 550 cord to the outside end of the Front Riser L-bar link. Make sure to snug the cord down tight.



#### 2.1.3

Route the cord over the line, around the back of the link, and then up through the loop created.



### 2.1.4

Tighten this loop around the suspension line.



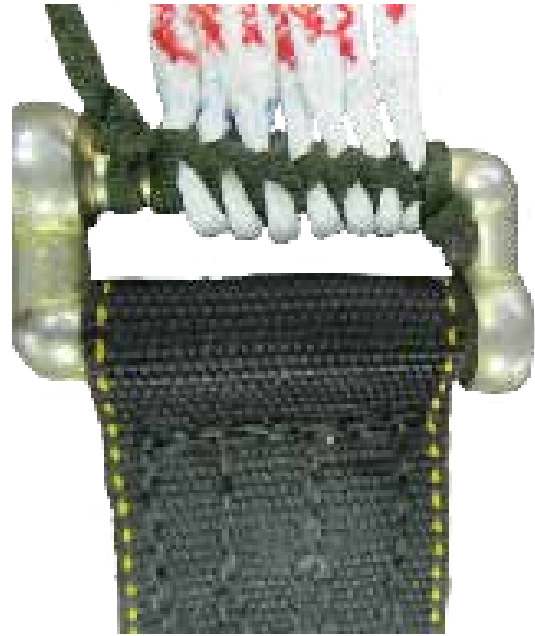
### 2.1.5

Continue this process for each of the lines.



**2.1.6**

To finish loop around the bar a second time. Tie an overhand knot in the end and tighten as much as possible.

**2.1.7**

Cut the end of the cord to within 1/4 inch of knot and burn ends to prevent fraying.

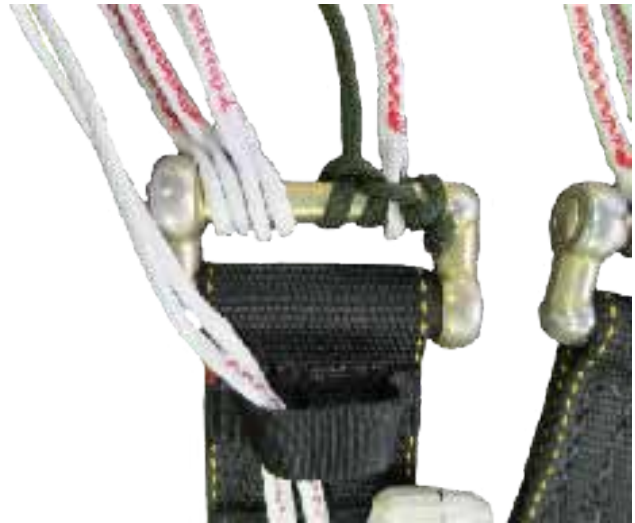


Repeat for other front riser.

## 2.2 Rear Risers

### 2.2.1

Start in the same manner as the Front Risers. Take a piece of 550 cord and remove the inside threads. Tie an overhand knot in one end. Cut the end to within 1/4 inch of knot and burn cut end to prevent fraying. Tie the 550 cord to the outside end of the Rear Riser L-bar link. Make sure to snug the cord down tight.



### 2.2.2

As there are fewer lines per link, you will double tie the 550 cord inbetween each canopy suspension line. Cut the end of the cord to within 1/4 inch of knot and burn ends to prevent fraying.



Repeat for other rear riser.

## 3.0 Packing the Patronus Reserve Canopy into DHT Container

*There are two methods for performing a continuity check on ram-air canopies. Shown below is the first method. This method requires enough space to fully stretch the canopy out. When packing the Patronus Reserve into the DHT container use the following instructions instead of sections 5.2 - 5.5 of the DHT manual.*

### 3.1 Canopy Continuity Check

#### 3.1.1

Lay canopy flat with nose to either side. Pull canopy tight and flake each cell with no material between cells. Work from "A" line group to control line group flaking each cell.



#### 3.1.2

Locate top and bottom leading edge "A" lines. These are left and right sides of canopy when in flight and will have slider stops.



#### 3.1.3

Follow lines through slider.



### 3.1.4

Follow to outside edge of front risers.



### 3.1.5

Locate top and bottom "D" lines.  
Left and right stabilizers of canopy.



### 3.1.6

Follow lines through slider.



### 3.1.7

Follow to outside edge of rear risers.





### 3.1.8

Locate tail control lines on each side of canopy.



### 3.1.9

Follow through slider grommets.



### 3.1.10

Follow to right and left toggles.  
Make sure they are free and clear.



### **STOP: Rigger check.**

1. All lines clear.
2. Canopy not twisted or inverted.

## 3.2 Stowing the Brakes

### 3.2.1

Pull control lines through guide ring until cat-eye is below guide ring.



### 3.2.2

Pull the control line through the guide ring located on the rear riser. Bring the locking loop (located on the riser behind the steel ring) up through the ring and through cat-eye in control line. Place tip of toggle through locking loop.

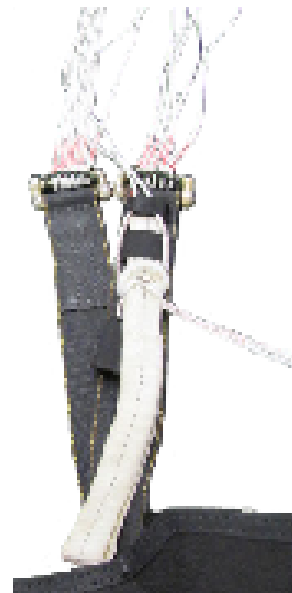
### ***Note!***

*Make sure that control lines are routed through loop at top of riser.*



### 3.2.3

Place tip of toggle into elastic keeper located above the guide ring.



### 3.2.4

Pull any excess line back through guide ring towards canopy. This should leave only one loop of line below the guide ring.



### 3.2.5

S-Fold excess line and place next to toggle.



### 3.2.6

Close Velcro around s-folded line and toggle, making sure not to catch the line in the Velcro.



### 3.2.7

Repeat for other riser.

### **STOP: Rigger check.**

1. Brakes locked around toggles.
2. Excess control line stowed in pocket.
3. Toggle completely mated to riser.

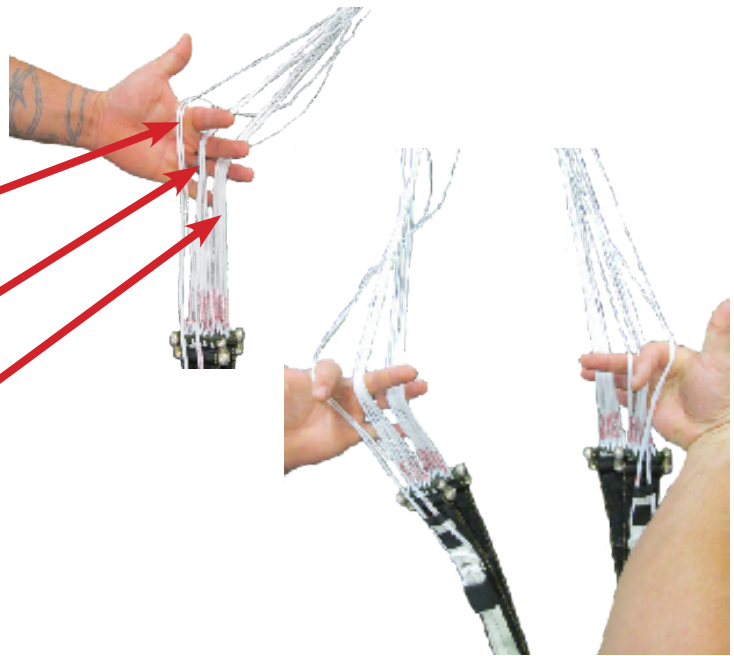


### 3.3 Folding the Canopy

#### 3.3.1

Grasp control and suspension lines keeping front riser, rear riser and control lines separate.

Control Lines  
Rear Riser (C & D Lines)  
Front Riser (A & B Lines)



#### 3.3.2

Run lines to canopy keeping right and left sides separate. Keep flag slider near canopy.



#### 3.3.3

Place lines over shoulder or on a hook with canopy tail facing away from container. Clear all cells at leading edge and keep together as a group.



#### ***NOTE!***

Photos will show canopy on a hook.

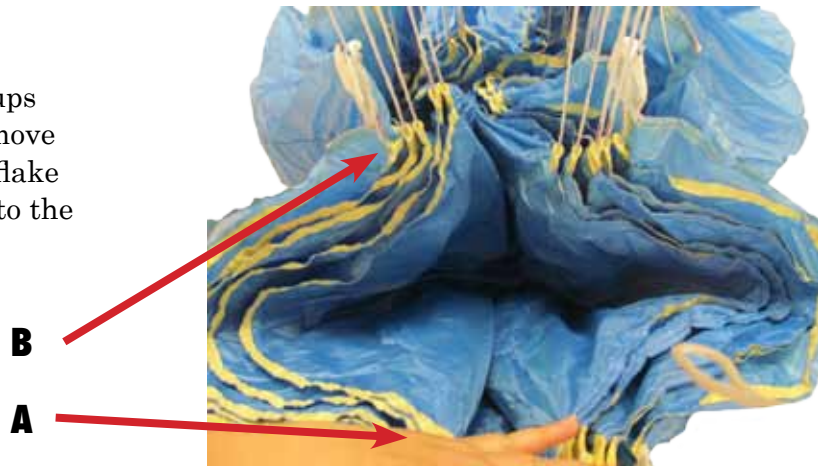
### 3.3.4

Gently pull each line tab towards the canopy to remove excess slack from lines. Once clear all "A" line tabs should be lined up evenly.



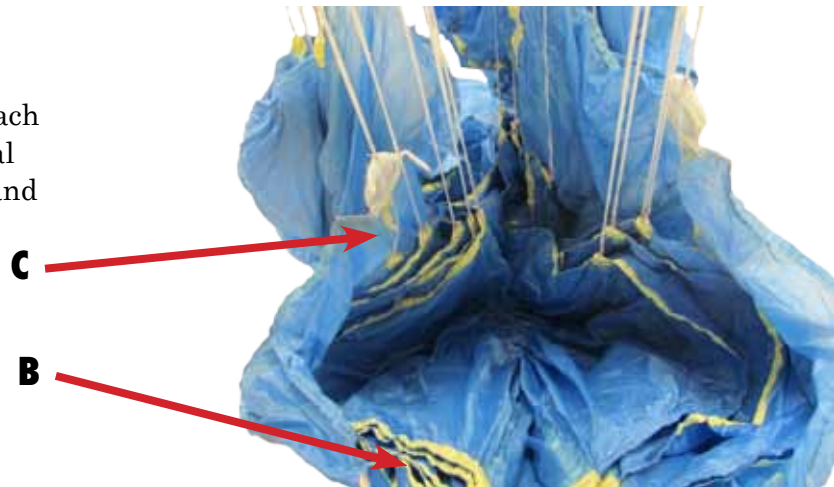
### 3.3.5

While controlling "A" line groups gently pull "B" line tabs to remove excess slack from lines. Then flake material between line groups to the outside.



### 3.3.6

Continue pulling slack from each line group and flaking material between "B" and "C" and "C" and "D" line groups.



### 3.3.7

Once all groups are flaked, lines should be to the center and material should be outside.



### 3.3.8

Take the two inner control lines and fold until line tabs are about even with outer three. Double wrap the lines in the rubber band located on the third line tab.

Repeat for other side

#### *Note!*

The easiest way to stow the control lines is to grasp lines even with third line tab and wrap around fingers until line tabs are about even.



### 3.3.9

Flake flag slider to the front and rear of canopy between line groups.



### 3.3.10

Take leading edge (nose) as a group.



### 3.3.11

Roll the leading edge three times (one and a half complete turns) to close all cell openings.



### 3.3.12

Gently insert the rolled nose into the center of the canopy.



### 3.3.13

Straighten flag of slider in front of canopy nose.

#### **STOP: Rigger check.**

1. All Cells flaked.
2. Control lines stowed.
3. Flag slider is in place between line groups.
4. Nose is rolled and placed in center of canopy.



### 3.3.14

Take the center of the tail and bring it up to suspension lines above slider grommets and wrap around to nose. Match seams from each side in order to keep canopy even.

#### ***Note!***

The center of the tail is located just to the left of the Data Label.

Seams Even



### 3.3.15

Roll the tail together keeping material as even as possible in order to create a cocoon around the canopy.





### 3.3.16

Hold the lines with one hand, the rolled tail with other hand and place canopy gently on the floor with rolled edge to the floor. Make sure that lines stay tight and canopy stays neatly rolled.



### 3.3.17

Roll the sides of the canopy under until the cocooned canopy is the width of the freebag. Compress canopy removing air working away from container. Finish with a tight cocoon.



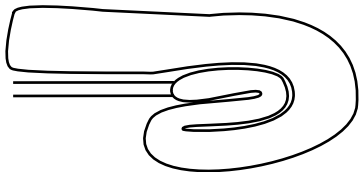
### 3.3.18

Grasp lines and canopy tail and create an s-fold in the canopy with the lines on top.



### 3.3.19

With one hand holding the rolled tail seam fold canopy back toward container without removing underneath hand.



Side View of Folds

## 3.4 Packing Canopy in Freebag

### 3.4.1

Position freebag so that bungees with chokers are facing down.



### 3.4.2

Place the canopy into the freebag. Be sure to push the folded end all the way to the bottom of the freebag. Be careful not to unfold canopy.



### 3.4.3

Gently roll the remaining material into the freebag. Make sure to roll material away from lines.



### 3.4.4

Route one of the locking bungees from inner free bag flap through corresponding grommet on freebag.



### 3.4.5

Lock bungee by stowing 2" loop of lines.



### 3.4.6

Route second locking bungee from inner free bag flap through grommet and lock with a 2" loop of lines.



### *Note!*

At this point you have secured the canopy in the freebag and you can shape the canopy to make a nice wedge shape.

### 3.4.7

Stand the freebag up.



### 3.4.8

Take all suspension lines and hold them even with the seam of the top flap, opposite from last stow.



### 3.4.9

Using the seamed edge of the flap as a reference make a loop and double wrap stow with rubber band closest to first stow from side flap. Loops should be approximately 1 1/2" in length.



### *Note!*

Make sure to pull rubber band stows toward lines creating tension. Do not just put around end of loop. This will keep tension on all lines evenly throughout deployment minimizing travel and giving a smooth release of lines and canopy.



### 3.4.10

Continue to stow lines across the top of the bag. Make sure to double wrap all line stows.



### 3.4.11

When you have approximately 4' of line remaining stop stowing lines.

#### **STOP: Rigger check.**

1. Line stows start with locking stows.
2. All line stows using rubber bands are double wrapped.
3. All line stows do not extend past sides of freebag.



### 3.4.12

Close outer flap over lines. Route outside bungee and choker opposite of last stow up through corresponding grommet.



### 3.4.13

Lock with approximately 2" of line.  
Make sure to pull choker tight  
against lines.

#### *Note!*

If choker is above grommet it will come  
off and be lost when deployed.



### 3.4.14

Continue with opposite side bungee  
and choker, then end with middle  
bungee and choker.

Freebag should now be next to  
container and is ready to pack into  
container.



Continue with section 5.6 in the DHT  
Manual Revision J.