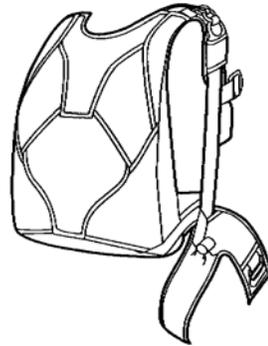


***Ram-Air Reserve  
Packing Instructions***

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**Prior to installing and packing a square reserve into the Talon/Telesis, the rigger must thoroughly read and understand these instructions.** The rigger must also make the determination of proper compatibility regarding volume, deployment type and placard information. Only those reserves that have been assigned a weight and speed limitation by the manufacturer are approved for use in the Talon/Telesis. It is the responsibility of the rigger installing the reserve to fill out the Orange Warning Label correctly. Refer to the Rigging Innovations Warning Label Placard Data Sheet for proper information.

If you should have any questions as to compatibility or Placard labeling information, call *Rigging Innovations, Inc.* at (714) 657-1769 or FAX (714) 657-0547.

### ***Assembly and Folding the Canopy***

Rigging Innovations authorizes two different types of canopy folding methods for ram-air canopies according to the method approved for that particular canopy. They are the side pack or Para Flite method, and the PRO pack or hang pack method. To configure the canopy for placement in the bag, there are also two methods; the Molar method, and the Centaurus or around-the-loop method.

In the following instructions, the Para Flite method for folding the canopy and the Molar method for placing it in the bag are illustrated. However, it is up to the rigger to make the determination as to the combination of canopy folding and installation of canopy into the bag based on the canopy manufacturer's instructions.

**Step 1** Assemble the canopy to the harness and container making sure of the following:

- a) Line continuity is correct.
- b) The connector links are tightened properly according to the canopy manufacturer's instructions. Mark with a telltale.
- c) The control lines are routed properly through the slider and then the guide rings on the rear of the rear riser.
- d) Attach the ram-air reserve toggles with an overhand knot with the knot on the side facing the velcro keeper.

**Step 2** Orient the canopy on its side with the nose facing either right or left. Flake the canopy until all line groups are taut and stacked on one another.

**Step 3** Fold the nose **under**. Grasp the canopy above the “B” lines and stack “B” lines on top of the “A” lines.

**Step 4** Grasp the “C” lines and stack them on top of the A-B stack.

**Step 5** Stack the “D” lines on top of the A-B-C stack.

**Step 6** Set the brakes as follows:

- a) Pull the control line down until the brake loop is through the guide ring.
- b) Insert the steering toggle through the brake loop. *Figure 1*
- c) Stow the excess steering line vertically in the velcro keeper, wrapping the loop velcro around the line and locking it over approximately one-third of the hook velcro. *Figure 2*

- d) Mate the loop portion of the steering toggle to the hook velcro on the riser so that the tops of the velcro align. This will ensure that there is sufficient toggle through the brake loop.

**Step 7** Tack the end of the toggle with one turn of doubled seal thread. The end of the toggle has been marked and punched to make this job easier. *Figure 3*

**Step 8** Flake the tail so that there are an even number of panels to each side. Dress the stabilizers at this time.

**Step 9** Wrap the tail around the canopy stack making sure that you do not enclose the nose in the wrap. To get a good distribution within the deployment bag, make the width of the canopy 2 - 4 inches wider than the bag. *Figure 4*

**Step 10** Pull the slider up to the base of the canopy to the slider stops. Fold the stabilizers over the slider at 45 degrees.

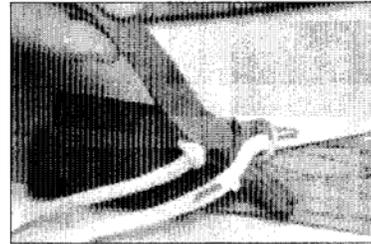


Figure 1

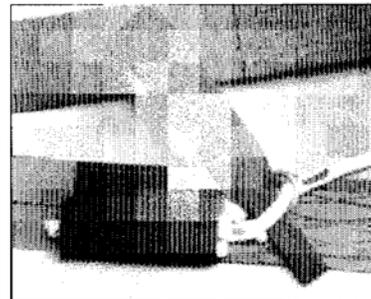


Figure 2

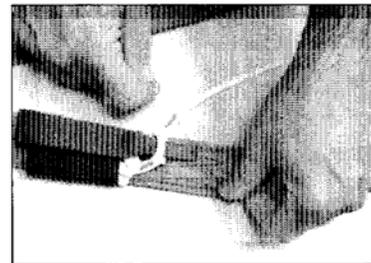


Figure 3

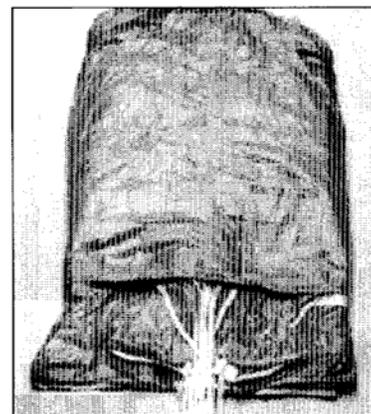


Figure 4

### PUTTING THE CANOPY INTO THE BAG

**Step 11** Take the locking pull-up cord and thread it through the deployment bag from the top. Make a figure 8 slip knot on the underside to keep it from pulling through.

**Step 12** Fold the tail surface back towards the top of the canopy and “S” fold the slider so that the grommets are even with the bottom of the stack. Now fold the tail fabric back towards the lines so that it covers the slider stack. *Figure 5*

**Step 13** “S” fold the canopy into a stack on itself to the length approximately the distance from the mouth of the bag to the grommets in the center of the bag. *Figure 6*

**Step 14** Locate the center seam of the upper surface of the canopy. Take the fabric to the left of the seam and pull it to the left. Take the fabric to the right and pull it to the right. *Figure 7* When the bulk of the fabric has been distributed into the narrow stack, fold each side 90 degrees towards the top of canopy so that the whole package is in a “U” shaped configuration. This will be known as the “Molar”. The use of the canopy compression strap at this time will hold the canopy securely. *Figure 8*

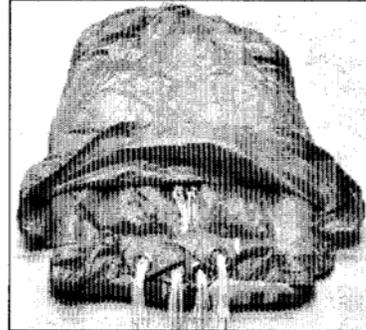


Figure 5

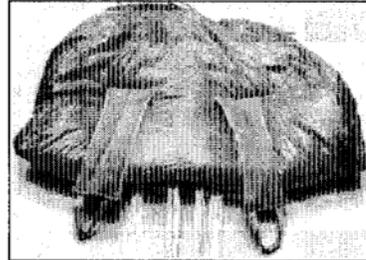


Figure 6

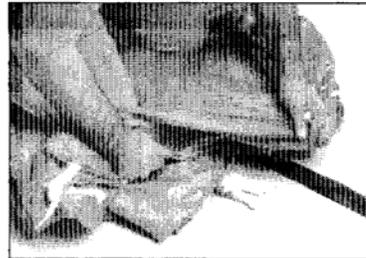


Figure 7



Figure 8

**Step 15** Take the molar and insert it directly into to the deployment bag so that the ears are on each side of the locking pull-up cord. *Figure 9* Make sure that the center of the bag around the grommets is clear of any material. **Remove the compression strap at this time.** *Figure 10* Lock the mouth of the bag with the two locking stows. *Figure 11*

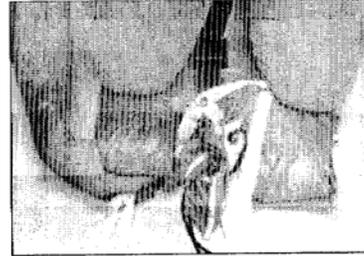


Figure 9

**Step 16** Make sure the canopy is evenly distributed side to side and tapered top to bottom. Cinch the locking pull-up cord down tightly so that there is minimum distance between the center grommets.

**Step 17** Tilt the bag up on its bridle end so that the mouth of the line stow pocket is exposed. Open the line stow pocket and install the velcro line protectors. Stow the lines in the pocket, distributing the bulk evenly. Leave about 8-10" of line exposed to the connector links. Remove the velcro line protectors and close the mouth of the line stow pocket securely.

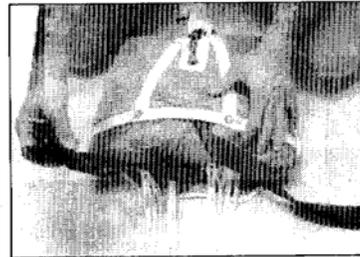


Figure 10

**Step 18** At this time you should kneel on the bag and squeeze as much air out as possible. The more air you remove at this time, the easier it will be to get it in the container.

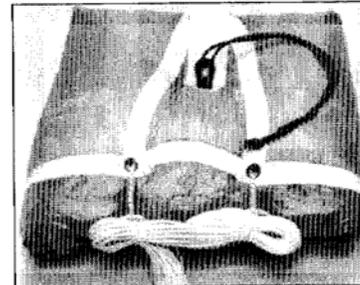


Figure 11

## PLACING THE BAG INTO THE CONTAINER

**Step 19** Make sure the reserve closing loop is an appropriate length for the canopy/container combination.

**Step 20** Flip the deployment bag over the container so that it lays upside down on the main container. Thread the pull-up cord through the reserve closing loop.

**Step 21** Place the reserve risers under the reserve riser covers so that the rear risers are located to the outside. Mate the velcro or tabs for the riser covers.

**Step 22** Making sure the lines exit the bottom of the riser covers, set the bag on its end at the bottom of the reserve container. Release the figure 8 knot of the locking pull-up cord and thread the 60 inch pull-up cord through it.

*Figure 12*

**Step 23** Rotate the bag downward, placing it into the container while at the same time pulling the locking pull-up cord through the bag with the 60 inch pull-up cord. *Figure 13* Lock the closing loop with the temporary pin ("temp pin").

**Step 24** Work the bottom corners of the bag into the bottom corners of the container to fill them out. Thread the pull-up cord in turn through the #1 and #2 flaps and lock with the temp pin. *Figure 14* Route the bridle out either side of the locking loop. At this time, work the bag into the bottom corners of the container. Use the closing plate to apply pressure on the flaps as you pull the loop through. You should be able to pull approximately 3/4 - 1 inch of loop through the first two flaps. If you can pull more, the loop is too long. Open the container and adjust the loop.

**Step 25** "S" fold the bridle into approximately 6 inch folds and spread both sides of the closing loop.

*Figure 15* Thread the pilotchute threading tool through the pilotchute and insert the ends of the pull-up cord in the end. Pull the pull-up cord through the pilotchute.

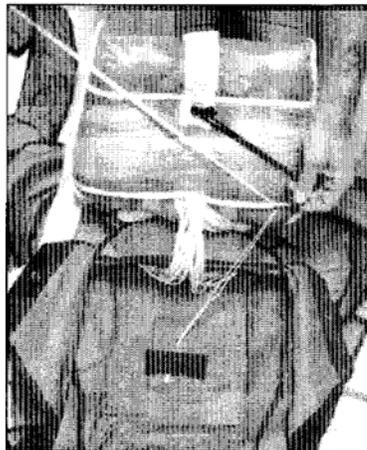


Figure 12

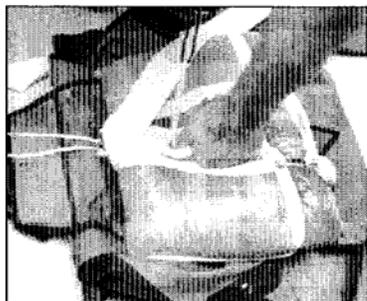


Figure 13



Figure 14

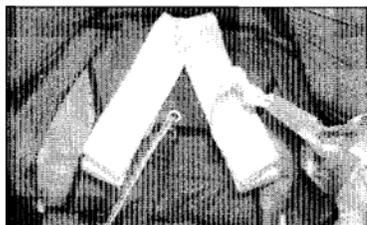


Figure 15

**Step 26** Collapse the pilotchute while stuffing the fabric **INSIDE** the coils. **IMPORTANT!** Do not leave the fabric outside the coils as a coil lock could occur and the launch of the pilotchute may be inhibited. Place the arrow located on the top of the pilotchute towards the top of the container. *Figure 16* Lock with the temporary pin.

**Step 27** Close flaps #3 and #4 in sequence and lock with the temp pin.

**Step 28** Close flap #5 and lock with temp pin. Close the #6 flap and lock with the ripcord. *Figure 17* At this time, the rigger should make the determination as to how tight the closing loop is and whether to perform a pull test to determine whether it is within the 22 lb limit. Once that determination has been made, seal the ripcord and log the pack job.

**Step 29** COUNT YOUR TOOLS!

**Step 30** FILL IN THE PLACARD DATA ON THE ORANGE WARNING LABEL. FAILURE TO DO SO WILL VOID THE TSO!



**Note:**  
*Rigging Innovations* in conjunction with Precision Parachute Co. has produced a Video Manual Supplement to these packing instructions. It shows in detail all the techniques and special "tricks" developed by the manufacturers. Both manufacturers encourage the use of this supplement in the packing of their products. Interested individuals should contact *Rigging Innovations* for a copy of this video manual.

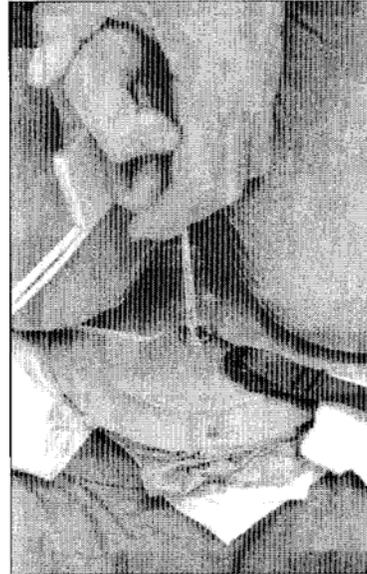


Figure 16

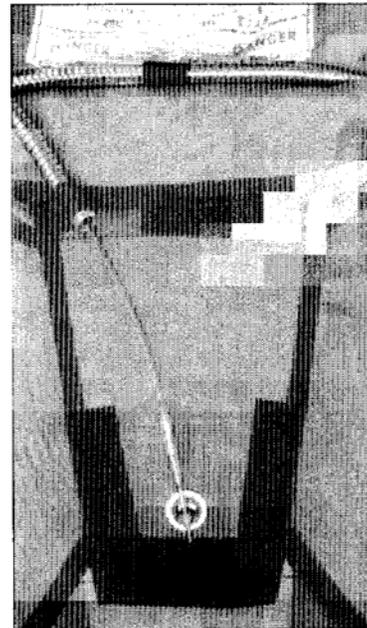


Figure 17