



## ***AVALON PopTop***

### **HARNES CONTAINER PACKING MANUAL Student harness**



**Read and follow the instructions before packing and/or using the product**

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## **AVALON Pop Top STUDENT Packing Manual**

After big success of AVALON Sport and Student harness container Advanced Parachute Systems developed the Pop Top modification of the rig. AVALON<sup>PT</sup> Sport and Student version are the most comfortable and suitable harness on the market. Because of its unique design our harness is able to prevent many common problems in skydiving like involuntary openings of the reserve parachute in high speed situations, high g-force and spinning and during faulty openings of the main canopy.

AVALON<sup>PT</sup> Student Harness Container is made from the best available materials and is compatible with any canopy on the market to offer you great comfort and to make you feel free in the air.

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**WARNING**

1 Proper training and/or experience are required to lower the risk of serious injury or death. Never use this equipment unless you have:

A) Read this warning label, the appropriate owner’s manual and packing instructions as well as completed a “Controlled program of instructions” in the use of this parachute assembly.

OR

B) Read this warning label, the appropriate owner’s manual and packing instructions. Students may only use the AVALON<sup>PT</sup> Student Harness Container after receiving detailed instructions and training from a qualified parachuting instructor.

2 To lower the risk of death, serious injury, canopy damage and hard openings the AVALON<sup>PT</sup> Student Harness Container cannot be used by exceeding it’s the maximum limits: 136 kg, 159 knots.

Parachute systems sometimes fail to function properly even when correctly assembled, packed and operated so that you risk serious injury or death each time you use this or any parachute system!

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# 1 General Information

## 1.1 Introduction

THE AVALON<sup>PT</sup> HARNESS CONTAINER MUST BE CHECKED AND ASSEMBLED BY A QUALIFIED RIGGER. Before assembly, check the harness, container and all components, ensuring that the reserve and main container sizes are compatible with the size of the reserve and main canopies. Also check if the deployment systems with which the harness is to be used are compatible.

## 1.2 Description

**AVALON<sup>PT</sup> is an individual harness container**

Main risers with three ring systems



AAD Window Pin cover Window



Free-fly Handle

Left open BOC and handle

Static line stow bands

Ripcord cable channel

Free-fly Handle

Static line snap pocket

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# AVALON Pop Top STUDENT Packing Manual

## 1.3 Marking and list of components

### 1.3.1. Labels on AVALON<sup>PT</sup> harness

These labels are located in a small pocket on the low back part of the harness.



	<b>Manufacturer:</b> <i>Advanced Parachute Systems Ltd, Bulgaria</i>
	<b>Harness type:</b> .....
	<b>Serial Nr.:</b> .....
	<b>Container size:</b> ..... <b>Harness size:</b> .....
	<b>Date of manufacture:</b> .....
	<b>Limitations:</b> <i>maximum 136 kg / 150 knots</i>

Parachutes sometimes malfunction even when they are properly designed , built , assembled , packed, maintained and used. The results of such malfunctions are sometimes serious injury or death.

When you use your AVALON Pop Top you are acknowledging sport parachuting risks and accepting the fact that the AVALON or its components may malfunction. If you are not willing to accept these risks, then you should reconsider you involvement in sport parachuting.

All requirements of SAE AS8015 are observed by:  
 Advanced Parachute Systems Ltd. , 3431 Erden , Bulgaria  
[www.avalonskydive.com](http://www.avalonskydive.com)



**1.3.2 List of components**

<b>ITEM</b>	<b>Part Number</b>	<b>ITEM</b>	<b>Part Number</b>
Reserve Pilot Chute,	P/N-010-001	Reserve Static line (RSL) Lanyard,	P/N-013-002
Reserve Free Bag,	P/N-010-003	RSL Universal Lanyard,	P/N- 013-003
D Reserve Ripcord ,	P/N-011-00D	Reserve Closing loop,	P/N-013-004
Mini D Reserve Ripcord,	P/N-011-002	Main closing loop,	P/N-013-005
Pillow Reserve Ripcord,	P/N-011-001	Reserve Toggles,	P/N- 014-001
D Reserve Ripcord (Marine eye),	P/N-011-005	Type-17 Velcro Mini Ring Main Risers,	P/N-015-001 – 19”, 21”, 23”, 25”
D Reserve Ripcord Spectra	P/N-011-004	Type-17 TrueLok Mini Ring Main Risers,	P/N-015-002 - 19”, 21”, 23”, 25”
Mini D Reserve Ripcord (Marine eye)	P/N-011-006	Type-17 TrueLok Mini Ring Main Risers with Louie Loops.	P/N 0150-004- 19”, 21”, 23”, 25”
Mini D Reserve Ripcord Spectra	P/N-011-007	Type-8 TrueLok STD Large Ring Main Risers,	P/N-015-003 - 19”, 21”, 23”, 25”
Pillow Reserve Ripcord (Marine eye)	P/N-011-010	Main TrueLok Toggles,	P/N-014-002
Pillow Soft Reserve Ripcord,	P/N-011-012	Main Velcro Toggles,	P/N-014-003
Cutaway Handle,	P/N-012-001	Main Deployment Bag,	P/N – 010 - 002
Skyhook RSL Lanyard Complete	P/N- 013-001	Static Line,	P/N-013-006
Main Ripcord,	P/N-013-007		
Main Pilot Chute-F-111-Centerline Handle options shown below. Sizes: 27”, 30”, 33”			
Main Pilot Chute-ZP-Centerline Handle options shown below. Sizes: 27”, 30”, 33”			

**1.4 Technical specification and limitations**

**1.4.1 Specifications**

The AVALON<sup>PT</sup> Student Harness Container is certified under AS 8015 B. It is produced in different sizes in accordance to the range of the different canopies. AVALON<sup>PT</sup> Student Harness Container may be used by all skydivers. It is recommended that skydiving students use the AVALON<sup>PT</sup> Student Harness Container.

**1.4.2 Limitations**

Maximum Speed:	159 knots
Maximum weight:	kg 136 (300 lbs)
Qualified Reserve deployment system:	free bag with spring pilot chute
Packing:	as specified in this manual
Main deployment system:	Deployment bag with hand deploy pilot chute. Ripcord and Static line spring loaded main pilot chute



### Major Components & Accessories

Cut away handle with rigid Puff



Pillow Reserve Ripcord



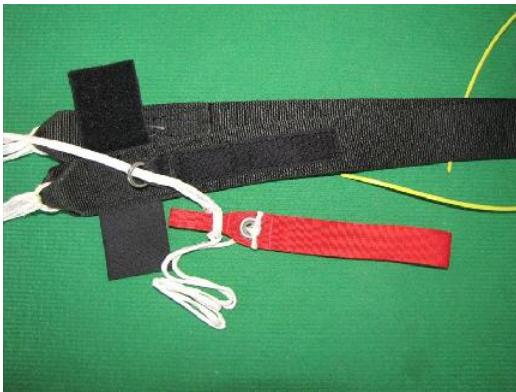
Reserve handle with ripcord



Metallic reserve handle



Reserve Toggle



Knife pocket



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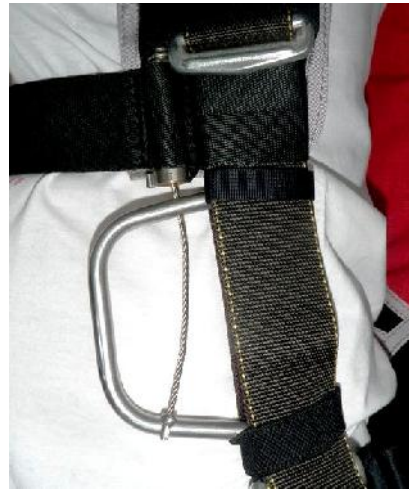
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Cut away handle position



Reserve handle position



## 2 Operating instructions

### 2.1 Inspection before packing

1. Read and understand this manual prior to using the AVALON<sup>PT</sup> Student Harness Container. Only qualified by properly trained riggers may assemble this harness.
2. Check both 3 – Ring releases to see that they are correctly assembled. Check if cut away handle is securely stored with Velcro to the main lift web.
3. Check the main container closure for the correct pin position and the correct routing of the bridle.
4. Check the reserve container for the correct pin closure and routing of the ripcord. Make sure the reserve ripcord handle is well seated in its Velcro pocket.
5. The main pilot chute must be protected by its pouch, but the handle must be easily visible and accessible.
6. Ensure that the sizes of the reserve and main canopy as well as the deployment system are compatible with the harness-container.
7. Prior to assembly and/or packing a thorough inspection of the AVALON<sup>PT</sup> Student harness and container must be completed:

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- Reserve container,
- Main container,
- Harness,
- All cable housings,
- All stitching,
- All grommets,
- Reserve handle integrity and correct size fitted,
- Cut away housing integrity and correct size fitted,
- Reserve risers and deployment brake system.

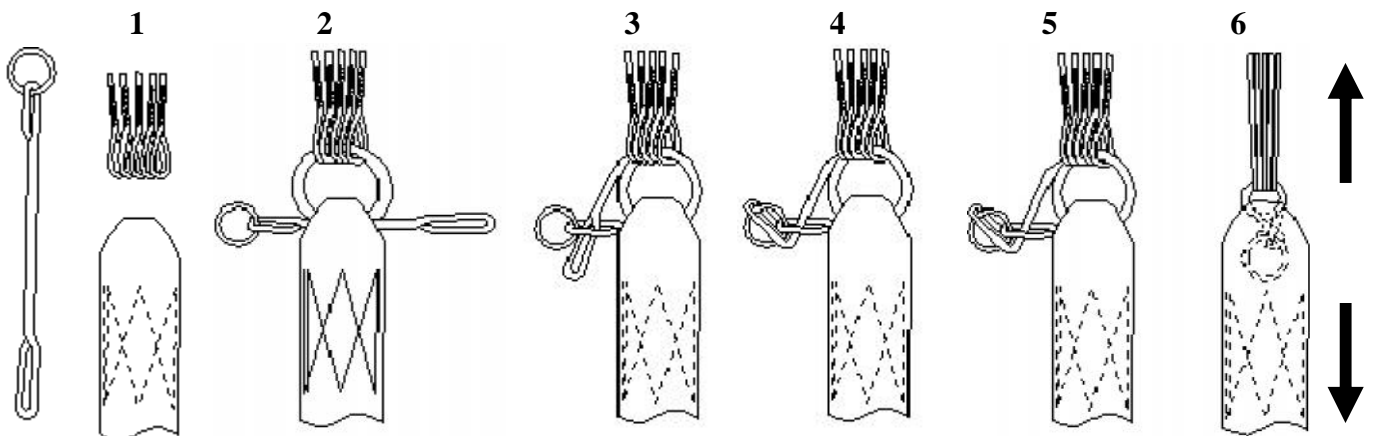
Check the AVALON<sup>PT</sup> Student Harness Container for any worn, damaged, corroded or incorrectly rigged components. Any of such components must be repaired or replaced before the harness container is packed for use.

For Reserve canopy installation, read and follow the instructions included in the Reserve canopy instruction manual.

## 2.2. Reserve canopy assembly

For the assembly of the reserve canopy please follow the instructions provided in the manual of the reserve canopy. If there are soft links on the reserve canopy follow the assembly instructions bellow.

### 2.2.1 Soft-links



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Secure the Soft Link ring in the webbing pocket, and hand tack as shown or as described in the reserve canopy instruction manual.



### 2.2.2 Connector links

If connector links are used, don't forget to tighten them after canopy installation.



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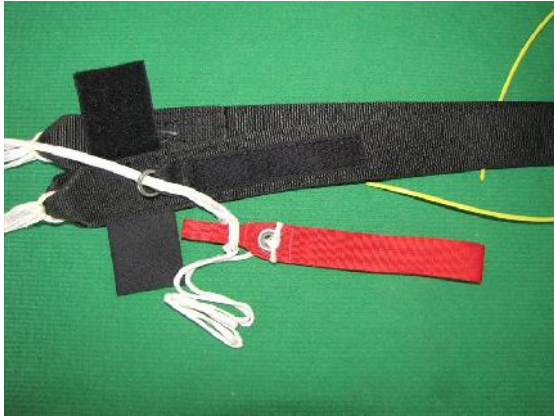
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### 2.2.3 Reserve toggle assembly

Pass the lower steering line through the rear riser ring. Pass the line through the toggle grommet and loop around the toggle. Pull tight.



Slide the toggle finger into the pocket. Stow the extra line and close the Velcro. Fix and secure the toggle on the rear riser.



**Read and follow the instructions before packing and/or using the product**

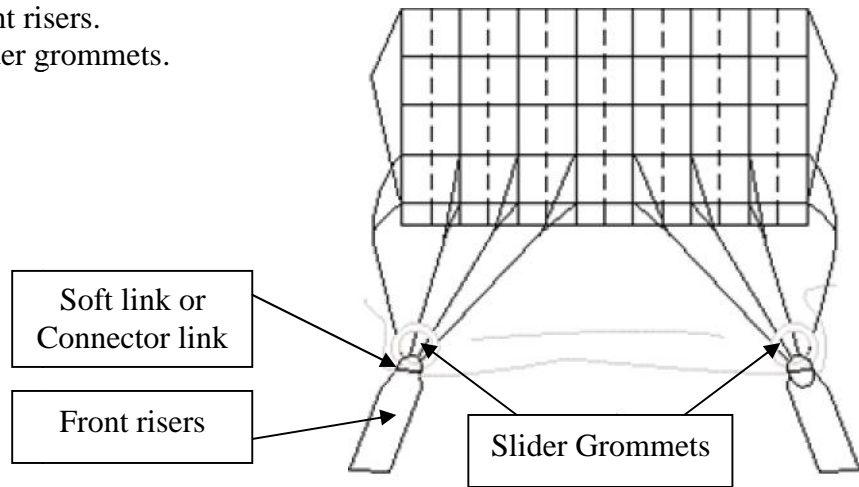
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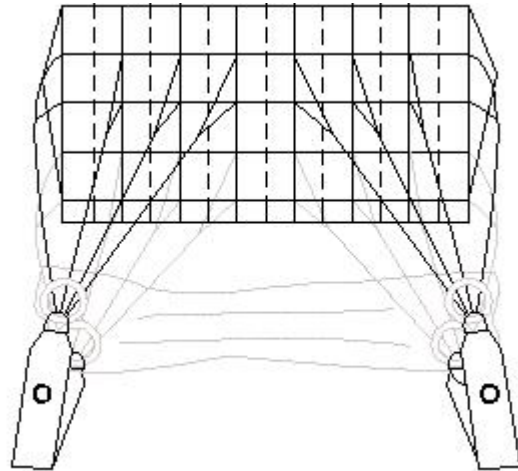
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### 2.2.4 Lines and Riser Connection

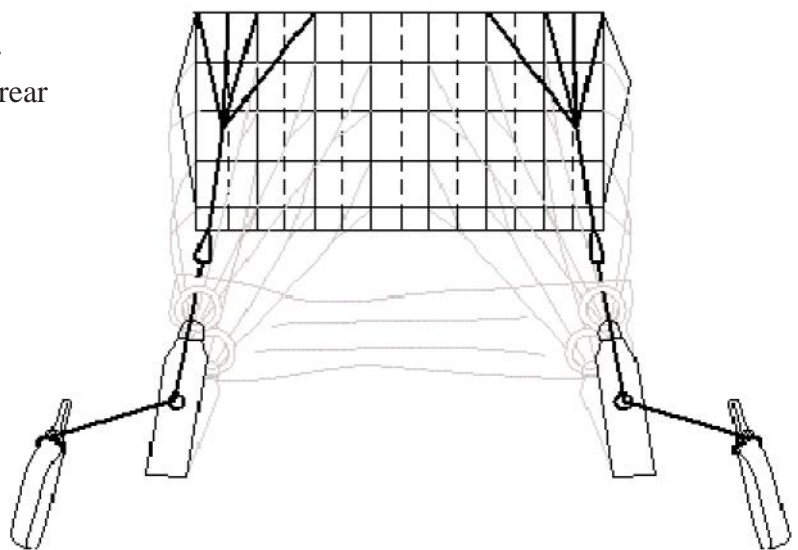
Connect front lines to the front risers.  
Pass the lines through the slider grommets.



Connect rear lines.  
Pass the line through the slider grommets.



Connect the steering lines.  
Pass the steering line through the rear slider grommet and through the guide ring on the rear reserve riser.



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### 2.3 AAD Assembly

If an AAD is to be installed on the AVALON<sup>PT</sup> Student Harness Container it is required to use only the original parts provided by the manufacturer. For the assembly of the reserve closing loop please follow the AADs manufacturer instructions.

Assemble the AAD in the harness container as described in the following pictures.

Put the AAD in the pocket on the lower end of the reserve container.



Put the AAD Display in the opening and pull it to the upper end of the container.



Pull the display in S-order through the black material tubing ( 1 ) and put it into the display pocket (2).



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Pull the cutter and its cable through, until it reaches its final position as shown in the picture.

Step 1 - pass the cutter through the cover of the bottom of the rig;

Step 2 - cutter goes under the site flap cover;

Step 3 - thread the cutter through the small loop on the side cover;

Step 4 - cutter goes again under the site flap cover;

Step 5 - pass the cutter through the ribbing and put it into the cutter pocket;

Step 6 - correct cutter position.



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AAD Display pocket AVALON<sup>PT</sup> Student.



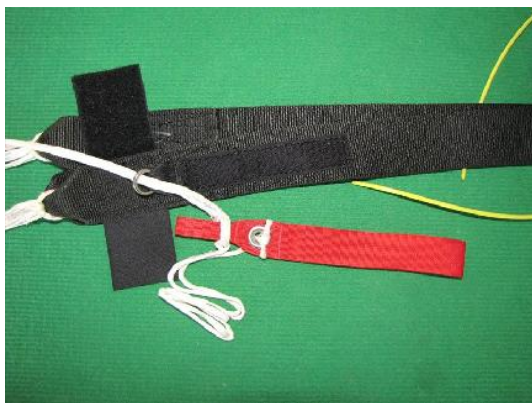
### 2.4 Packing Instructions

#### 2.4.1 Reserve container

For packing of the reserve canopy follow the reserve canopy manufacturer's WARNING, instructions and recommendations. For the closing of the reserve container follow the AVALON<sup>PT</sup> manuals WARNINGS, instructions and recommendations as written in this manual. Packing of the reserve canopy and container must be completed by a qualified and trained person.

##### 2.4.1.1 Installation of breaks

Set the toggle into the lower steering line brake loop. Slide the toggle finger into the pocket. Stow the extra line and close the Velcro. Fix and secure the toggle on the rear riser.



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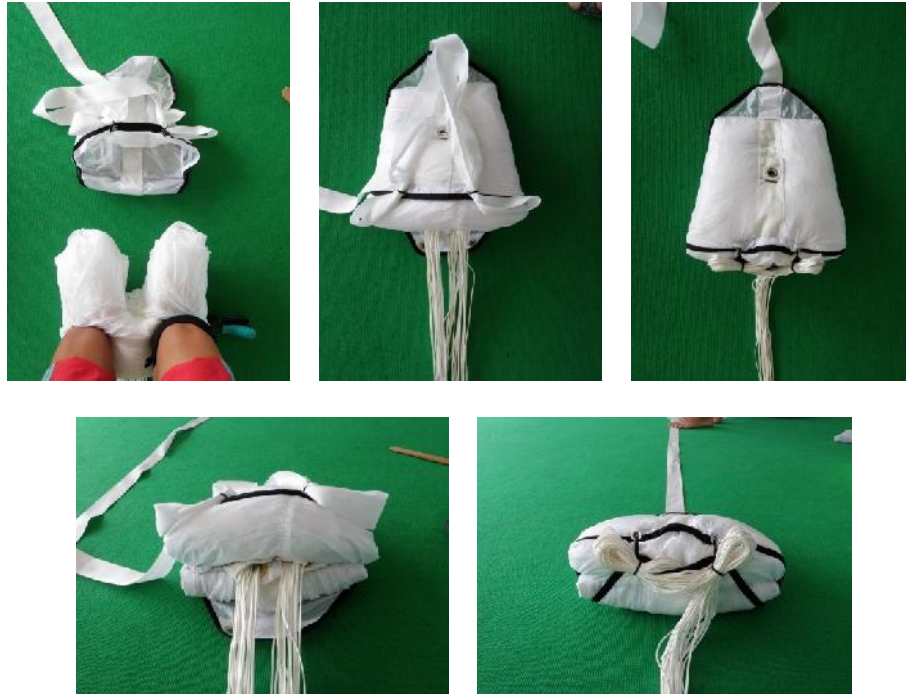
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### 2.4.1.2 Reserve deployment bag

Prepare the shape of the reserve deployment bag as shown in the following pictures



### 2.4.1.3 Closure of reserve container

Put the risers even against the back side of inner container wall.

Fold the bridial over the container



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Pass and pull the closing loop through the first flap of the reserve container. Pull the loop through the AAD. Ensure you the loop is passed through the AAD cutter.



Close the second flap of the reserve container as shown in the pictures



Place the rest of the bridial at the top of first and second flap



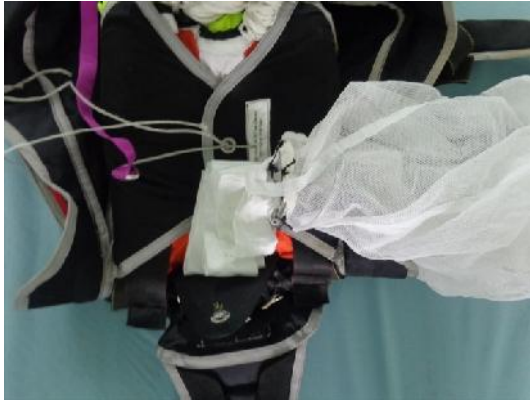
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Pass the pull-up cord through the pilot chute and out through the top plate. Please make sure that both, pulling cord and closing loop pass freely through the pilot chute, don't wrap it around the spring! Seat the lower end of the pilot chute on top of the side flaps, and keeping the pull-up cord tight, compress the pilot chute and lock it with the temporary pin. Now pull all the fabric out from under the top plate so that the pilot chute canopy appears round.



Roll or fold 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. Draw the rest of the pilot chute fabric down the sides of the pilot chute top plate pushing the excess fabric under the pilot chute top plate. Fan out the pilot chute fabric, so that it extends wider than the bottom flap.



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Now close flap 3 ( top flap) and secure it with the ripcord pin of the reserve container as shown in the pictures. Roll the rest of the free fabric under flap 4 ( bottom flap) and close it



Now close the pin cover.



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### 2.4.2 Main Container

#### 2.4.2.1 Assembly Main Risers

Miniforce risers pin toggle.



Pass the steering line through the guide ring and connect the toggle to the steering line as shown

Setting deployment brakes



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Left hand side



Right hand side



Lateral view



Anti-twist hosing



### 2.4.2.2 Adjustment of the harness

#### LEG STRAP

Leg straps may be adjusted to accommodate most all leg sizes. After tightening the leg straps, thread the excess through the elastic keeper on the rear of leg strap. Pull the entire excess length of leg strap through. Fold/roll up excess and put it in to the leg pad cover. Loosen the leg strap by pulling the strap backward.



#### CHEST STRAP

Correct threading of the chest strap.



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### LATERAL STRAP

After tightening the lateral straps, thread the excess through the elastic keeper. Pull the entire excess length of the lateral strap through and put it in to the leg pad cover.



Loosen the lateral strap by pulling the strap backward.



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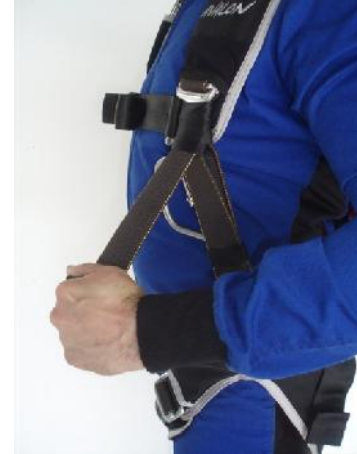
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### MAIN STRAP

To adjust your main straps follow the instructions bellow:

To make your straps longer catch the stripe with one hand and pull up the buckles with other ( pic. 1 )

To make your straps shorter just pull down the stripe ( pic.2)



After and adjustment tuck the the dead end onto its elastic keeper



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The AVALON<sup>PT</sup> harness/container may be produced with the following types of buckles and ring systems.



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### 2.4.2.3 Packing Instructions Main Canopy

Main assembly before closing the main container.



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Place the main risers under the internal riser covers.



Place the main deployment bag into the container with the lines facing down.



At this stage, adjust the main closure loop length to suit the main canopy size.

**WARNING:** The maximum force exerted by the bridle on the curved pin must not be more than 6 daN. For Safety reasons the minimum force exerted must not be less than 4 daN.

Adjust the closure loop length by the knot. Pull the closure loop and place the washer and knot in the webbing pocket.



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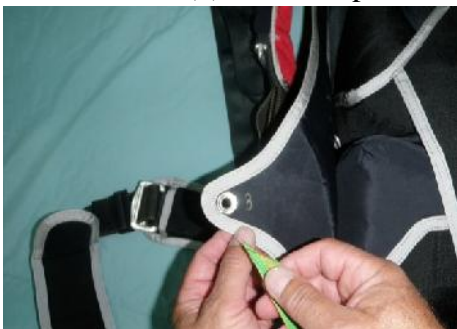
Pass the closure loop through the lower (1) flap.



Pass the closure loop through the upper (2) flap



Close the left (3) lateral flap.



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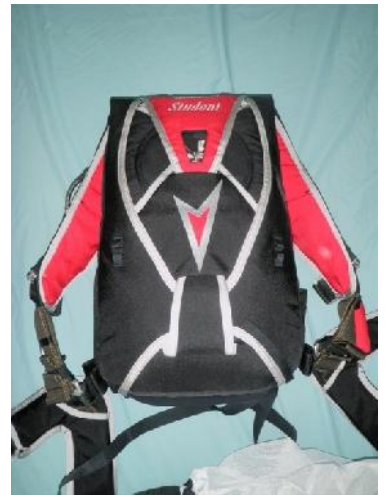
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Close the right (4) lateral flap.



Slide the hand deploy bridle under the right lateral flap and close the main cover flap.



Fold the internal riser cover over the main risers



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View of the closed upper riser cover.



Insure that the center line of the hand deploy pilot chute is free and fold the hand deploy as shown. Then stow it in the elastic pouch in the bottom of the container.



AFF activation view



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### MAIN CLOSING INSTRUCTIONS WITH RIPCORS ( spring loaded main pilot chute )



Insert the black ripcord cable in to channel as shown on the

*NOTE: New ripcord cable may need to be trimmed. Trim at 5" 8" past the grommet. Heat the ends with a lighter and carefully mooth the ends with your finger.*

Main ripcord

Left side main activation handle



Lay bagged canopy in pack tray with the lines facing to the bottom of container as shown.

S-fold the bridol over the bag.



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Thread a pull-up cord onto the closing loop out the grommet in the top.

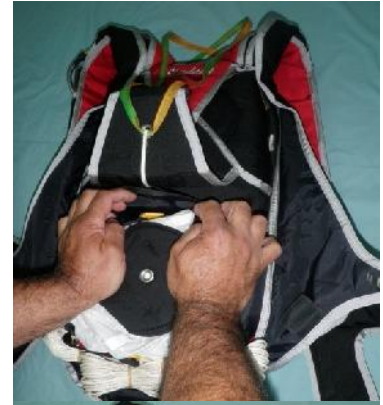
Center base of the pilot chute on the bag and compress. Gather the pilot chute fabric around the base.

Use the black ripcord cable to pin and hold in place.

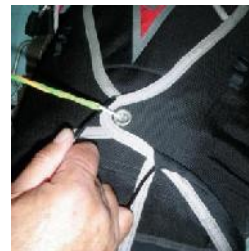
Thread the pull-up cord through the bottom flap and close.

At this point pinning to hold in place is not necessary if you're kneeling on top of the pilot chute and container.

Thread the pull-up cord through the top flap and close.



Thread the pull-up cord through the left then right side flaps and before closing, pass the ripcord cable through the loop as shown. Always close ripcord/right side **LAST!!!**



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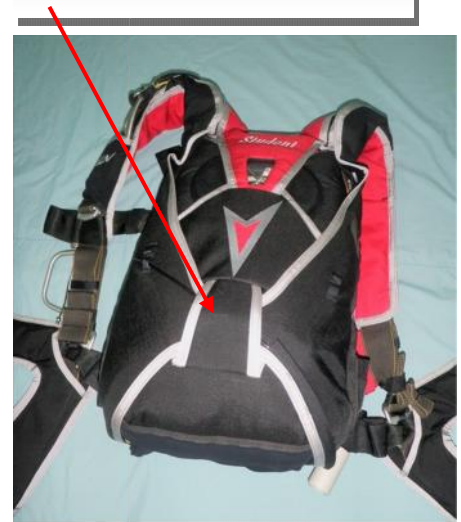
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If you use a left side main activation handle attach it as shown on the pictures bellow.



Mate the hook Velcro of the activation handle to the pile Velcro on the left side flap as shown. Thread the pull-up cord through the left then right side flaps and before closing, pass the ripcord cable through the left side main activation lanyard as shown.

**!Don't forget to close the pin/loop closing flap!**



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### MAIN CLOSING INSTRUCTIONS

#### PILOTE CHUTE ASSIST STATIC LINE ( spring loaded main pilot chute )



Using a Larks Head knot, attach the static line assist to the pilot chute and static line.



Out-ward facing pile Velcro on the bridle/with pilot chute.  
In-wards facing hook Velcro on the static line.  
The two are then mated together as shown.



Lay bagged canopy in pack tray with the lines facing to the bottom of container as shown.

S-fold the bridle over the bag.



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Center base of the pilot chute on the bag and compress. Gather the pilot chute fabric around the base.

Thread the pull-up cord through the bottom flap and close.

At this point pinning to hold in place is not necessary if you're kneeling on top of the pilot chute and container.

Thread the pull-up cord through the top flap and close.



Thread the pull-up cord through the left then right side flaps and before closing, pass the yellow pin cord through the loop as shown.

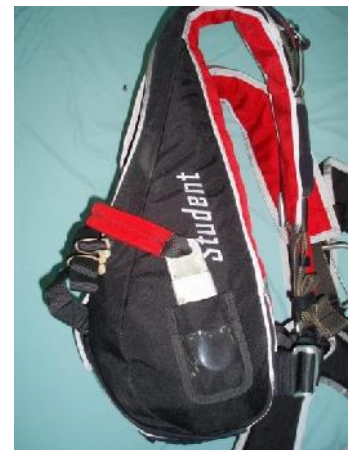
Close the pin cover flap.



The type of aircraft used will determine what side the static line is routed. If the door is on the left side of the aircraft, the static line should be routed out the right side of the container. On right door aircraft the static line should come out the left.

Stow static line as shown. Stow must be tight; double wrapping the rubber bands is strongly advised.

Stow static line snap in appropriate side pocket.



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### **3. Maintenance & Repairs**

The AVALON<sup>PT</sup> Student Harness/Container is built with the best materials available on the market and produced with high end production technologies. All maintenance and repairs on the AVALON<sup>PT</sup> Student Harness/ Container must be done by the manufacturer or a qualified and trained person.

**Attention:** The AVALON<sup>PT</sup> Student Harness/ Container has been certified under AS 8015 B. The label is sewn on the left reserve riser. If this label is not present do not pack or use the rig. The removal of the certification or warning labels voids all certification approvals.

#### **3.1 Maintenance frequency**

##### Reserve Canopy

The reserve canopy maintenance and packing interval is one year in normal conditions of use and storage. See also chapter 3.3.

##### Main Canopy

The maintenance and packing interval of the main canopy is one month or after every jump.

#### **3.2 Maintenance procedure**

##### **3.2.1 Reserve Canopy**

##### Warning

A reserve canopy is not always used in good conditions. It is always possible that your rig or some components are damaged during use (burns, broken stitching, etc.) For these reasons it is necessary to check all the minor and major components before taking a decision to reuse and repack it.

If there are any visible signs of wear or damage your harness/container should not be used. In this case you need to let your harness/container be checked and repaired or damaged parts replaced by a qualified person.

##### Warning

Never use slider bumpers on the reserve canopy.

##### Check the following components

- All stitching,
- Webbing – tapes – binding tapes – fabric integrity,
- Plastic plate integrity,

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## **AVALON Pop Top STUDENT Packing Manual**

- Hardware for sharp edges or damage,
- Grommets for damage.

### Accessories

- AAD reserve closure loop, replacement if necessary,
- Cut away handle cables are in good condition and no damage to cable coating,
- Reserve handle must be in good condition and does not have sharp edges,
- Reserve D-bag stitching and grommets. Replace shock cord if damaged.
- Reserve bridle is in good condition.
- Reserve pilot chute fabric, spring attachment & condition.

### **3.2.2 Main Canopy**

Operations on the main rig must be inspected after every 50 jumps. All components and parts must be checked.

### Harness container check

- All stitching,
- Webbing, tapes, binding tapes, fabric integrity,
- Plastic plate integrity,
- Hardware no sharp edges, no damage,
- no damage on grommets,
- Replace Main closure loop with new if worn. Change main closure loop as soon as it shows signs of damage.

### Accessories

- Main D-bag stitching, tapes and change rubber stowing bands,
- Main bridle & kill line stitching and kill line condition,
- Hand deploy pilot chute stitching & mesh & fabric condition,
- Main risers and three ring miniforce check and follow the instructions on page 22 of this manual,
- Toggles stitching and pin.

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### **3.3 Storage and use**

Textile (polyamides) and others materials (hardware) used in the construction of all parachutes are sensitive to the following environmental elements.

- Acids (car battery)
- Abrasion
- Chlorine
- Smoke
- Excessive heat 93<sup>0</sup> C or more
- Oil and grease (polyamide)
- Bugs or vermin
- Salt water
- Ultra Violet (Sun)
- Water and humidity

When the parachute is not in use it must be stored in an appropriate bag and stored in a clean room with constant air temperature between 15<sup>0</sup> C and 30<sup>0</sup> C and humidity between 15% and 70%.

### **3.4 User check-list before every jump**

- Verify the packing date on the data-card
- Check correct position of the reserve handle in its pocket and the correct cable routing without tension
- Check correct position of the cut away handle in its pocket and correct cable routing in housings
- Turn on AAD
- Check position of the 3-ring system and loop condition.
- Harness main webbing and leg webbing stitching.
- Hardware condition (no grease, no corrosion).
- Main and reserve closure loop condition.
- Hand deploy pilot chute bridle routing.
- Curved pin extraction force not more than 6 kg/12 lbs.
- Hand deploy handle in correct position.

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## **AVALON Pop Top STUDENT Packing Manual**

When wearing your rig make sure that the harness and leg webbing is not twisted. Check position and easy access of:

- Main hand deploy handle
- Cutaway handle
- Reserve handle

### **3.5 Maximum service life**

The AVALON<sup>PT</sup> Student harness/container Sport/Student may be used for 20 years with correct maintenance and use.

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