



## WELCOME TO AIRDESIGN

Thank you for choosing AirDesign and The Sock Superlight.

This harness is the work of a team of pilots, mountaineers, adventurers, hikers, climbers, who love to share their passion with you.

Based in the Alps, we spent hundreds of hours flying this harness during the development process to ensure you will have lot of pleasure using it for your next adventure.

Please read carefully the manual for this harness.

Please register your harness online on our website at <https://ad-gliders.com/product-registration/?lang=en>. Check the website Product registration page for more details.

If you wish, you can enroll for the AirDesign newsletter. Simply provide us with your e-mail address and you will always be up to date with the very latest news from the AirDesign world.

Up to the minute news and information is available on our Facebook page under "AIRDESIGN gliders". Become a fan and you are online with us whenever you login to Facebook.

More information about The Sock can be found on our website:  
[www.ad-gliders.com](http://www.ad-gliders.com)

For any further questions, please contact your nearest AirDesign dealer –  
<https://ad-gliders.com/dealerlist/?lang=en>

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AUSTRIA

# TABLE OF CONTENT

<b>WELCOME TO AIRDESIGN .....</b>	<b>1</b>
<b>SAFETY.....</b>	<b>3</b>
<b>SIZE CHART .....</b>	<b>3</b>
<b>DISCOVERING YOUR HARNESS .....</b>	<b>4</b>
GENERAL DESCRIPTION .....	4
SAFETY ELEMENTS .....	4
SEAT STRUCTURE.....	4
LARGE VOLUME CONTAINERS .....	5
INFLIGHT ACCESSIBLE POCKETS.....	5
<b>PREPARATION FOR FLIGHT.....</b>	<b>6</b>
UNDER SEAT STORAGE.....	6
INFLATING AIRPILLOW .....	6
BACK CONTAINER.....	7
NOSE CONTAINER.....	7
COCKPIT .....	8
SOLAR PANEL CONNECTION POINTS .....	8
CONNECTION TO TOWING EQUIPMENT.....	8
<b>CLIPPING-IN YOUR HARNESS.....</b>	<b>9</b>
WAIST STRAP .....	9
POD CLOSING .....	9
CHEST CROSS STRAPS .....	10
CONNECTION TO THE PARAGLIDER RISERS.....	10
CONNECTING THE SPEED BAR .....	10
<b>HARNESS ADJUSTMENTS .....</b>	<b>11</b>
1: SEAT INCLINATION ADJUSTMENT (THIGH SUPPORT) .....	12
2, 3, 4 : LEG LENGTH ADJUSTMENT (FOOTPLATE) .....	11
5: LOWER BACK ADJUSTMENT (LUMBAR STRAPS).....	11
6: UPPER BACK ADJUSTMENT (SHOULDER STRAPS).....	12
7: SPEED BAR ADJUSTMENT .....	12
<i>Balance Check</i> .....	13
<i>In flight Adjustment</i> .....	13
<i>Enjoy your flight!</i> .....	13
<b>PREPARING YOUR HARNESS (DETAILS).....</b>	<b>15</b>
CONNECTION DETAIL (HARNESS- CARABINER ASSEMBLY).....	15
RESCUE INSTALLATION.....	15
<i>Risers' connection</i> .....	15
<i>Rescue handle connection</i> .....	16
<i>Container closing</i> .....	16
<i>Rescue deployment</i> .....	17
HARNESS PACKING .....	18
<b>COMPOSITION, CARE AND MAINTENANCE.....</b>	<b>18</b>
<b>ROUTINE INSPECTION .....</b>	<b>18</b>
<b>PRODUCT REGISTRATION AND GUARANTEE .....</b>	<b>19</b>
<i>Product registration – Produktregistrierung - Enregistrement de produit</i> .....	19
<b>RESPECTING NATURE AND ENVIRONMENT .....</b>	<b>19</b>

# SAFETY

The Sock SL is certified according to EN 1651 and NfL 2-565-20 for a maximum pilot weight of 120kg.

AirPillow SL is EN 1651:2018 + A1:2020 and **CE** certified as ImpactPad (shock absorber) according to EU Regulation 2016/425.

As a light harness, it is not advised to perform any acrobatic maneuver.

Towing is permitted providing it's done under professional supervision, with a specific quick release system, connected to the main carabiners, taking care that there is no possible interaction of the towing system with the reserve container.

Please read this manual carefully and thoroughly.

## IMPORTANT SAFETY NOTICE

**By the purchase of this equipment, you are responsible for being a certified paraglider pilot and you accept all risks inherent with paragliding activities including injury and death. Improper use or misuse of paragliding equipment greatly increases these risks.**

**Neither AirDesign nor the seller of AirDesign equipment shall be held liable for personal or third party injuries or damages under any circumstances.**

**If any aspect of the use of our equipment remains unclear, please contact your local paragliding instructor, AirDesign dealer or the AirDesign importer in your country.**

## SIZE CHART

The choice of your harness size is important. The chart will help you to choose but we recommend that you try the equipment at one of our dealers.



	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	95 kg	100+ kg*
150cm	S	S	S	S							
155cm	S	S	S	S	S						
160cm	S	S	S	S	S	S	S/M				
165cm	S	S	S	S	S/M	S/M	M	M			
170cm	S	S	S/M	S/M	M	M	M	M	M		
175cm		M	M	M	M	M	M	M/L	M/L	L	
180cm			M	M	M/L	M/L	M/L	L	L	L	L
185cm				M/L	L	L	L	L	L	L	L
190cm					L	L	L	L	L	L	L
195cm						L	L	L	L	L	L
200cm							L	L	L	L	L

\* Maximum equipped pilot weight 120kg

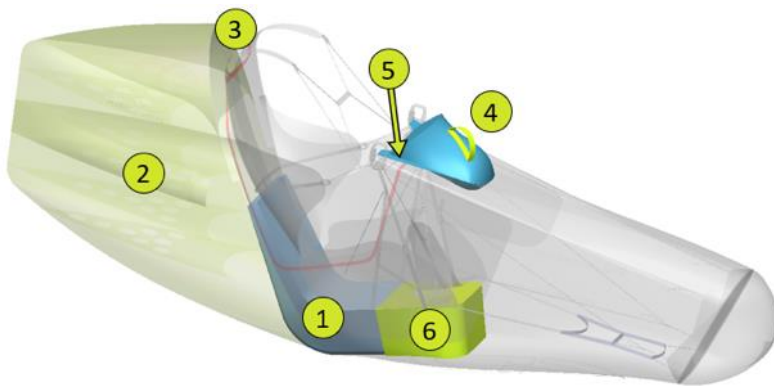
# DISCOVERING YOUR HARNESS

## General description



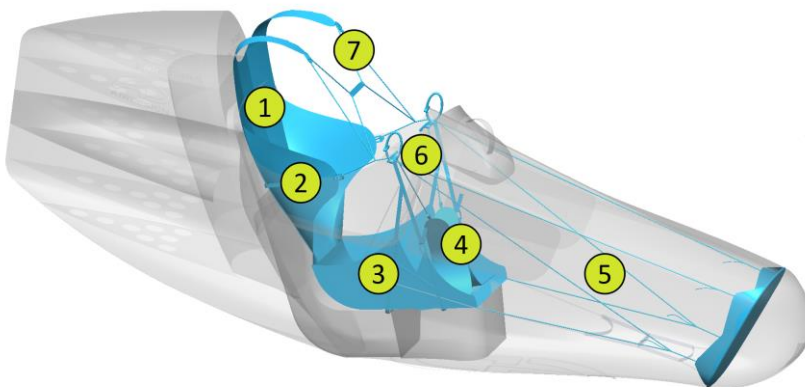
- 1: Front rescue container
- 2: Aerodynamic Pod
- 3: Pod nose
- 4: Aerodynamic fairing
- 5: 3D Shaped comfortable backseat

## Safety elements



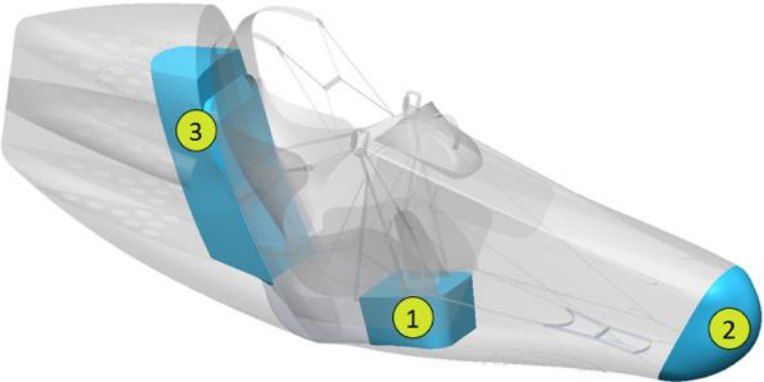
- 1: Air Pillow protector
- 2: Inflatable Fairing
- 3: Rescue risers
- 4: Rescue container
- 5: Hook Knife
- 6: Underseat Pocket

## Seat structure



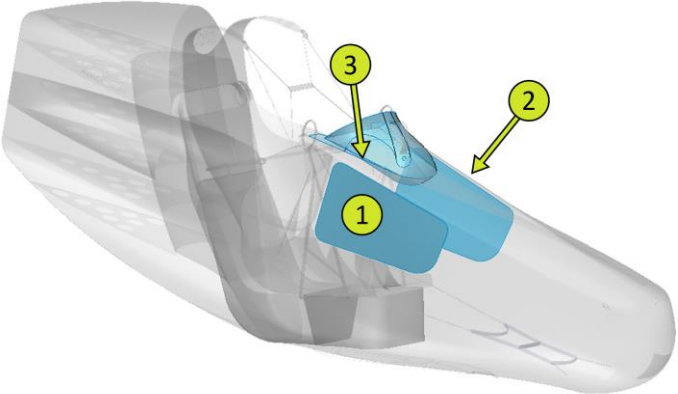
- 1: 3D Shaped back
- 2: Adjustable lumbar support
- 3: Adjustable seat inclination
- 4: Leg straps
- 5: Footplate support lines
- 6: Waist strap
- 7: Adjustable shoulder straps

### Large volume containers



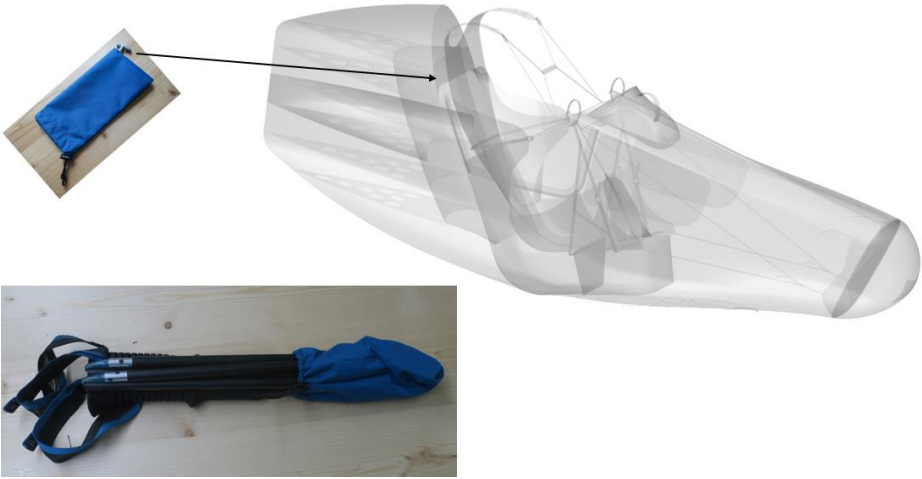
- 1: Underseat container
- 2: Pod Nose Pocket
- 3: Back container (40l)

### Inflight accessible pockets



- 1: Mid-size zipped pocket (right)
- 2: Mid-size zipped pocket (left)
- 3: Power/Food pocket (under rescue)

### Poles protection pocket

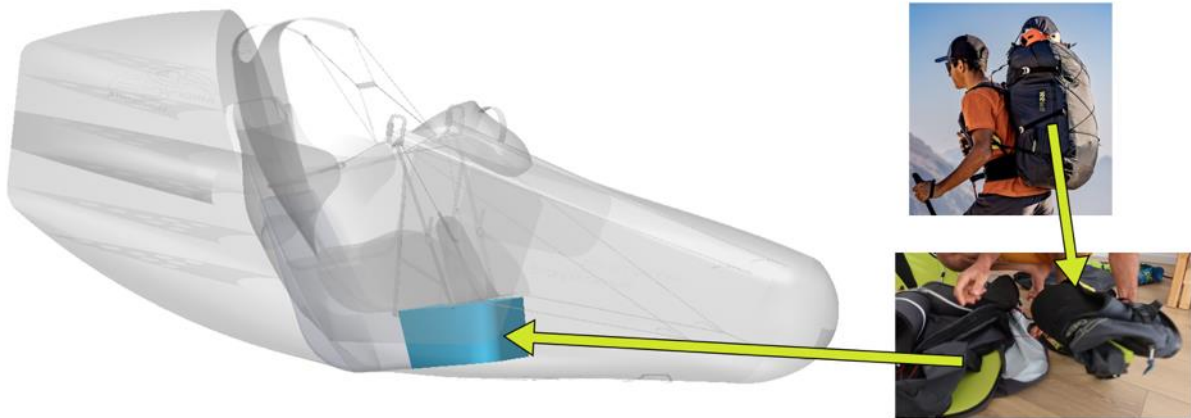


# PREPARATION FOR FLIGHT

## Under seat storage

We recommend using the under seat container to store your folded rucksack. This allows to improve your protection with a small additional absorber.

(Certification does not take the bag in consideration but better results were verified)



## Inflating AirPillow

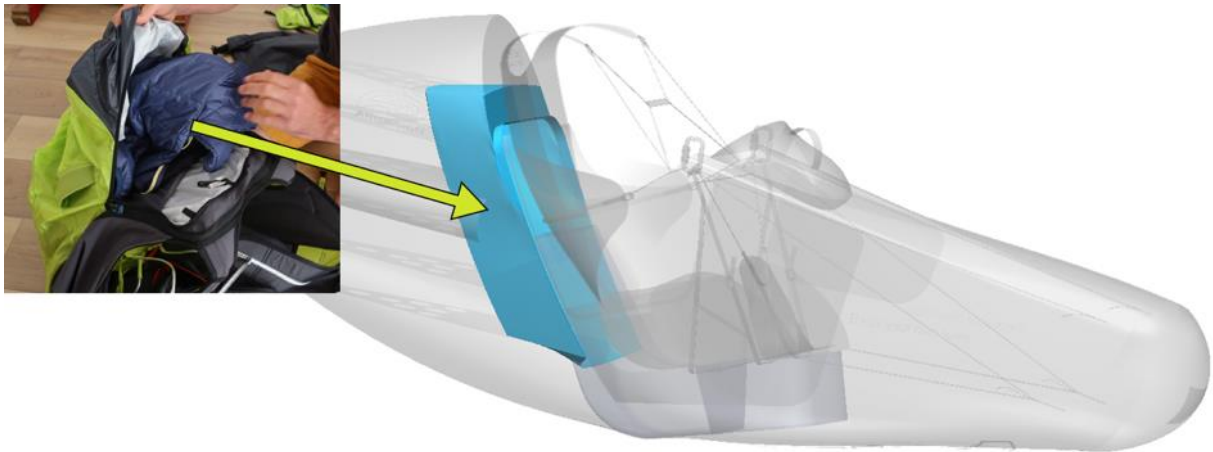
The Sock Superlight harness contains an inflatable AirPillow SL protector which provides an excellent impact absorption. This protection is EN and CE certified (Air Turquoise SA **PH\_418.2023**)

Before using your harness, you need to inflate the AirPillow SL. You can use the Sock Superlight Bag to inflate it using the pipe. Once the Air Pillow SL is completely filled up, close the pipe using the clamp to lock it tight.

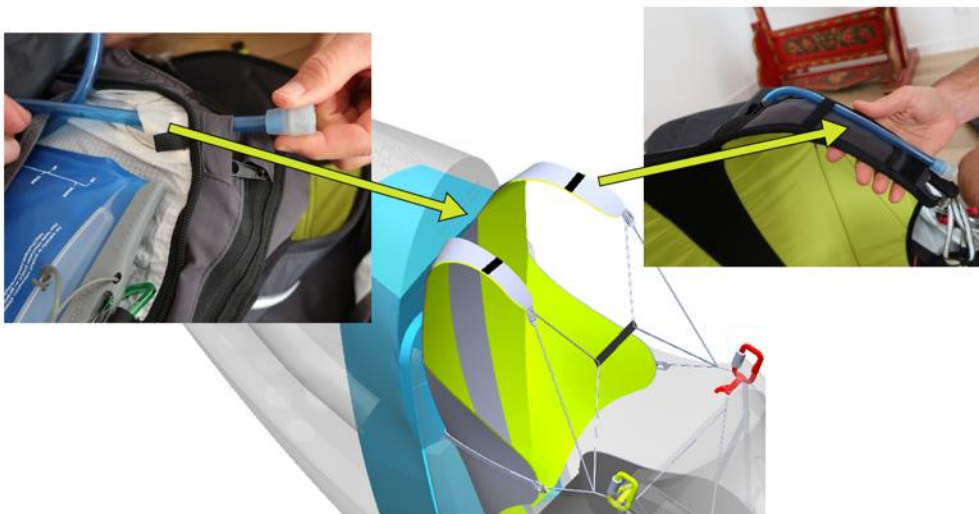


## Back container

The back container offers a large storage volume.



Hydration system hooking and slots:



## Nose container

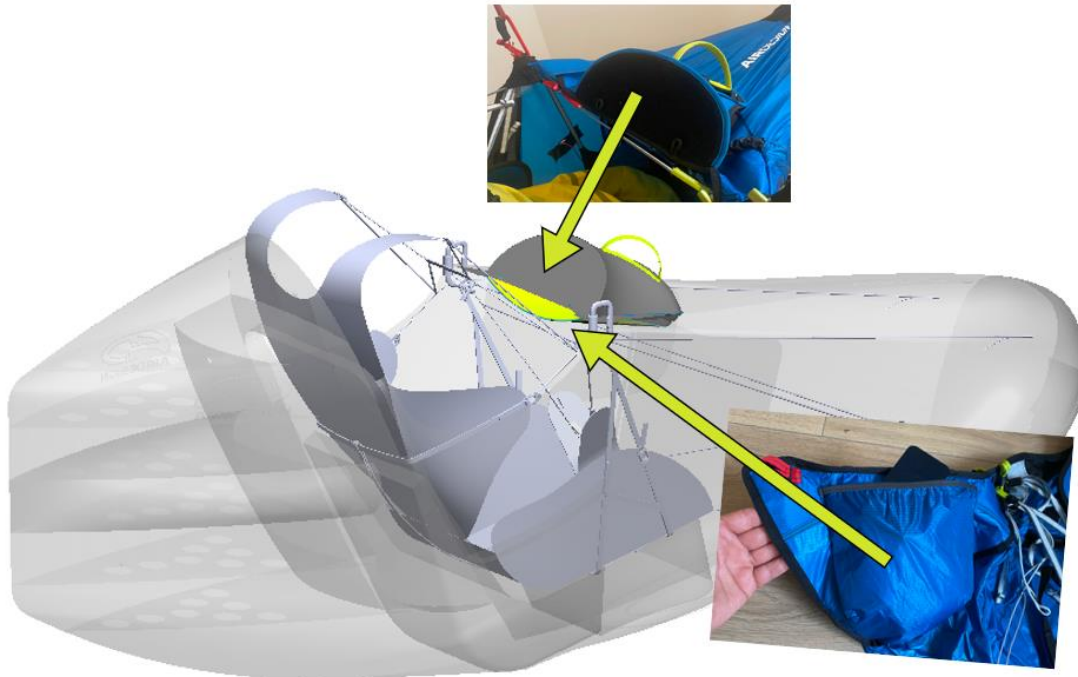
You can use the Nose container for your Sock Bag and AirPack.



Warning: Avoid storing heavy objects in this pocket.

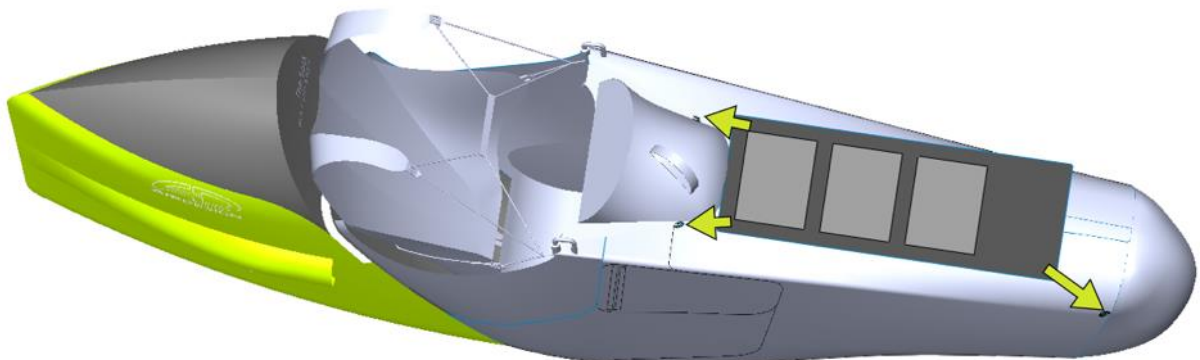
## Cockpit

The Cockpit is covered with Velcro and allows you to display all your instruments. The Mesh pocket underneath is perfect for all kinds of energy reserves (batteries, power bars).



## Solar Panel connection points

Loops on the pod allow you to connect and secure foldable solar panels.



## Connection to Towing equipment

The sock Harness is suitable for winch-towing launches. There are no special attachments for this type of launch. The tow release system is to be connected to the main carabiners.

**Please ensure that the tow release equipment is compatible with the front rescue container.**

Follow the instructions of the tow release and the tow adapter or ask a flight instructor or professional experienced with paraglider towing.



# CLIPPING-IN YOUR HARNESS

## Waist strap

First get into the harness by putting the shoulders on.

Make sure that the leg loops, coming from behind, pass between your legs.

Then close the waist strap with the toggles and the loops – **Red to Red** & **Green to Green**



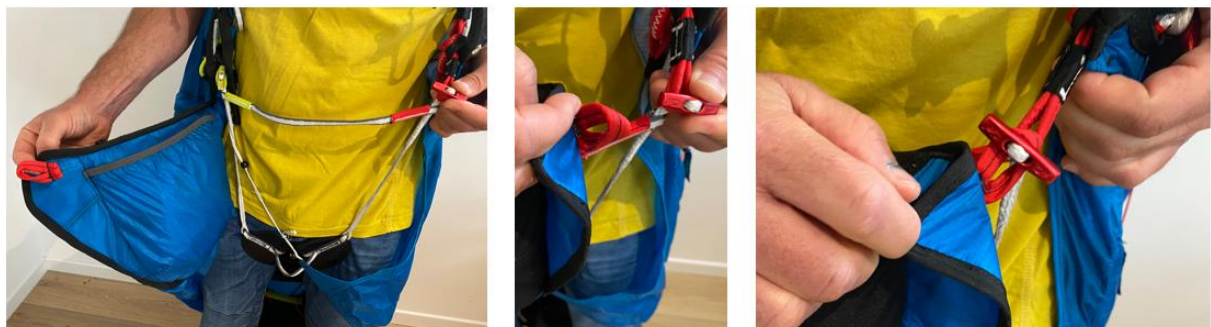
## Pod closing

First close the left panel diagonally using the clip on the right side.

Make sure the connection is free and nothing is tangled with other lines from the pod.

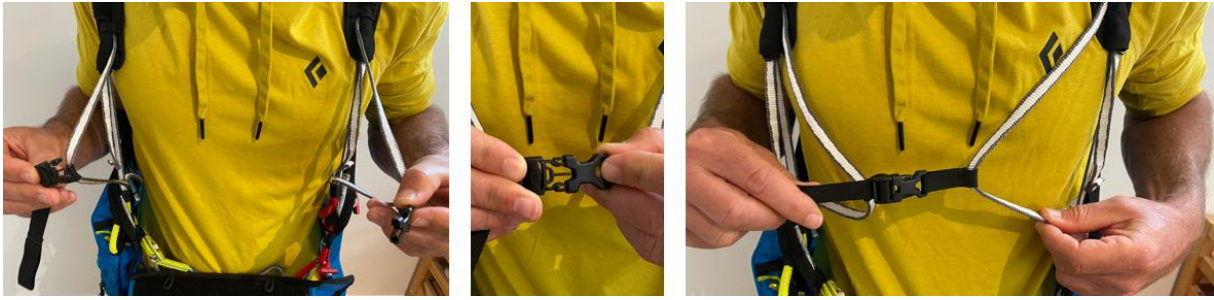


Then close the right panel passing the rescue container loop around the left red toggle. **Red to Red.**



## Chest cross straps

Close chest strap using the clip.

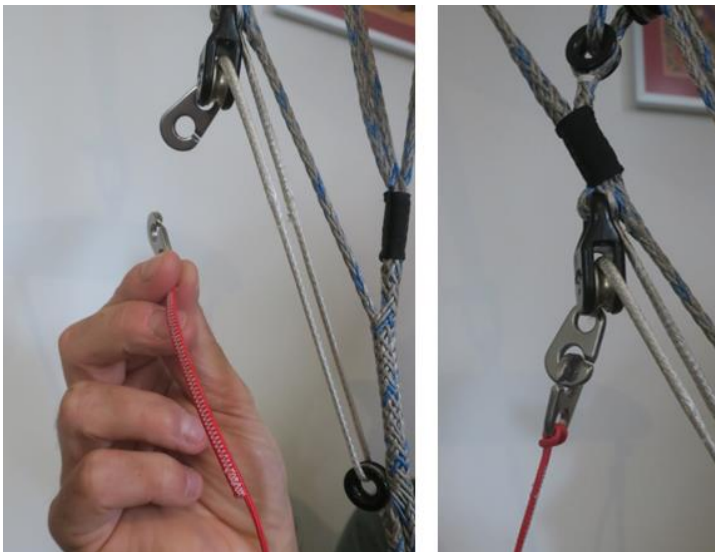


## Connection to the paraglider risers



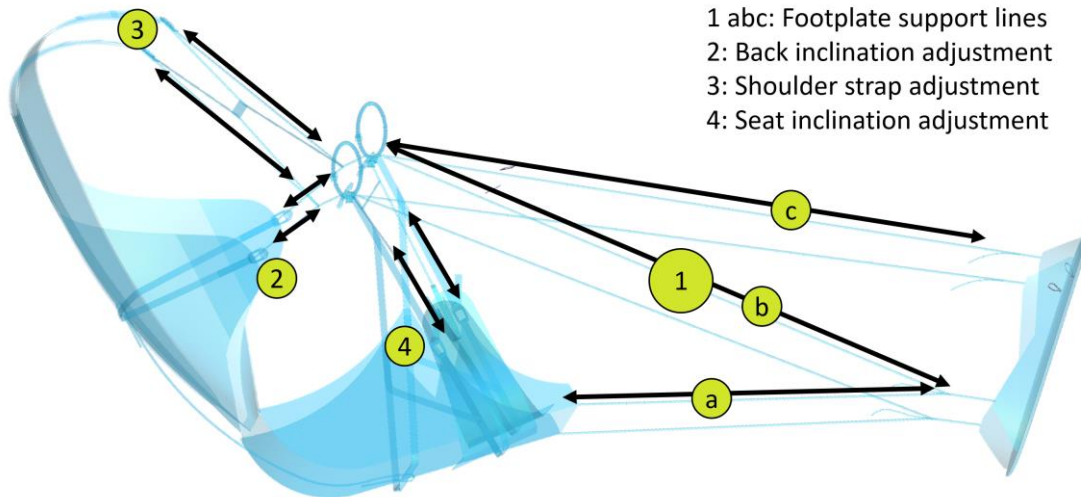
**Warning!** Ensure that AD Connects are locked and not twisted before take-off.

## Connecting the speed bar



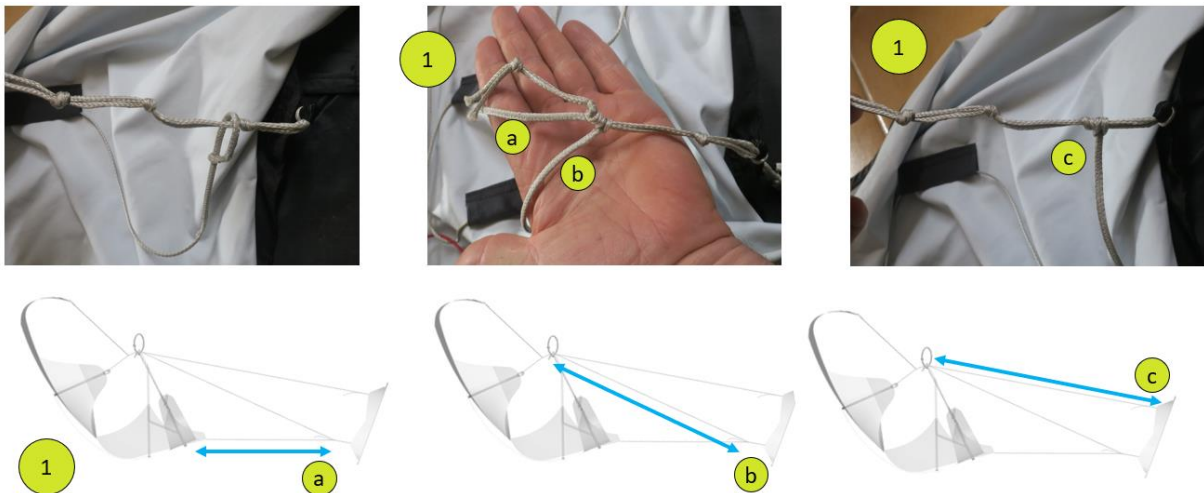
# HARNESS ADJUSTMENTS (#Put your Sock On)

The adjustment sequence is recommended as following here below:



## 1 (abc) : Leg length adjustment (Footplate)

Adjust line lengths by positioning the lark's head knot according to your legs length. Harness is optimized so that all connections are on same knot position (for instance, if line #2 is on knot #1, lines 3 and 4 should also be on knots # 1).



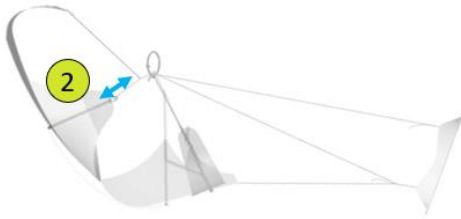
We recommend having the knees just a little bit bent so you can push your footplate properly to help in turns (but it's pilot's choice of course).

In any case, at this stage, better having the legs a bit too short. It will help pushing your back against the seat back.

If your leg adjustment is too long, your body might slip forward, and create an uncomfortable crease at the bottom of your back.

## 2: Lower back adjustment (Lumbar straps)

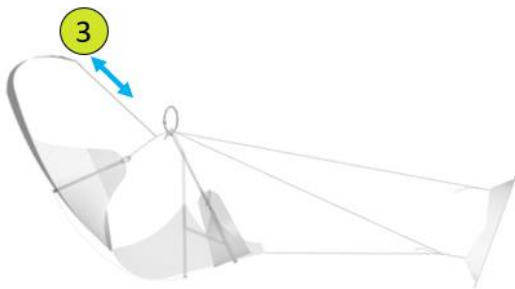
Adjust the lumbar straps symmetrically for a comfortable fit and balanced back support.



The Sock is designed for a seated to semi-inclined position for better handling efficiency.

## 3: Upper back adjustment (Shoulder straps)

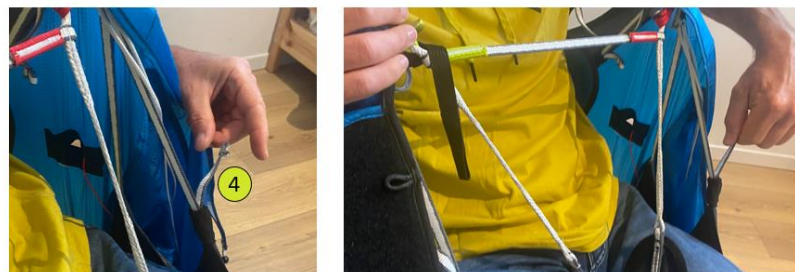
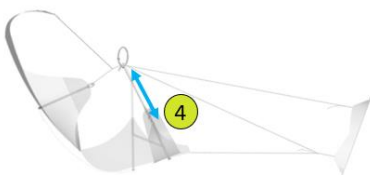
Adjust the shoulders symmetrically for a balanced back support.



The shoulder straps should be in tension but no push your shoulders forward. Too tight would round up your back and neck, too loose would lose a bit of support for the top of your back.

## 4: Seat Inclination adjustment (thigh support)

Adjust the strap height to reach a comfortable thigh support and inclination.



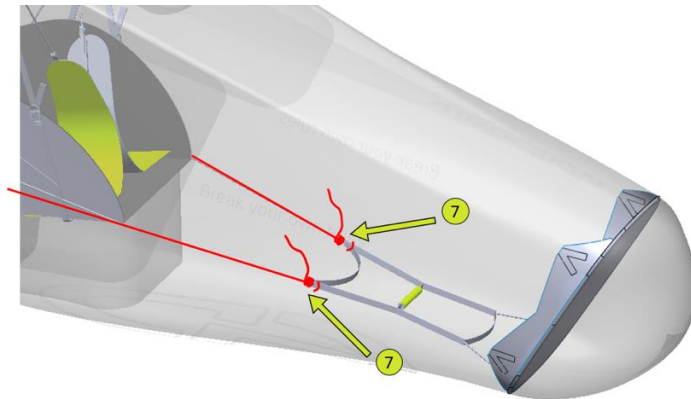
The last (and important) adjustment to make while you're sitting in the final position, but your seat adjustment is still loose, proceed as following:

- Pull up the straps so they get in moderate tension, the seat coming in contact with your thighs
  - Pull up 2-3cm more so you get a correct support of your thighs, but stop before it is bending your knees more than when completely loose.
- If you don't get any support from the seat, you may create discomfort while your thighs are only supported by the leg straps. If you pull too much up, you may create discomfort by creating a pressure line behind your knees, and also modify the seating position when you're using the speed bar.

## Speed bar adjustment

Speed bar is already mounted with a standard adjustment.

Should you need to adjust the speed bar line length, use the knots at bottom of the speed bar lines.



## Balance Check

Check the angle of your harness and adjust if necessary.

Use back adjustments and foot plate lines to adjust legs length and harness horizontal balance.



Remark: Perform all adjustments with shoes on and all your gear in flight configuration (Weight distribution matters)

## In flight Adjustment

You can adjust Back and Shoulders during the flight, but we recommend you to do it before take-off.

## Waist strap width (for information)

Waist strap width is fixed. It's set for best balance between weight transfer handling and stability.

For information, widths between the connects are:

Small :	44 cm
Medium:	45 cm
Large :	47 cm

Enjoy your flight!



## PREPARING YOUR HARNESS (details)

### Connection detail (Harness- AD Connect assembly)

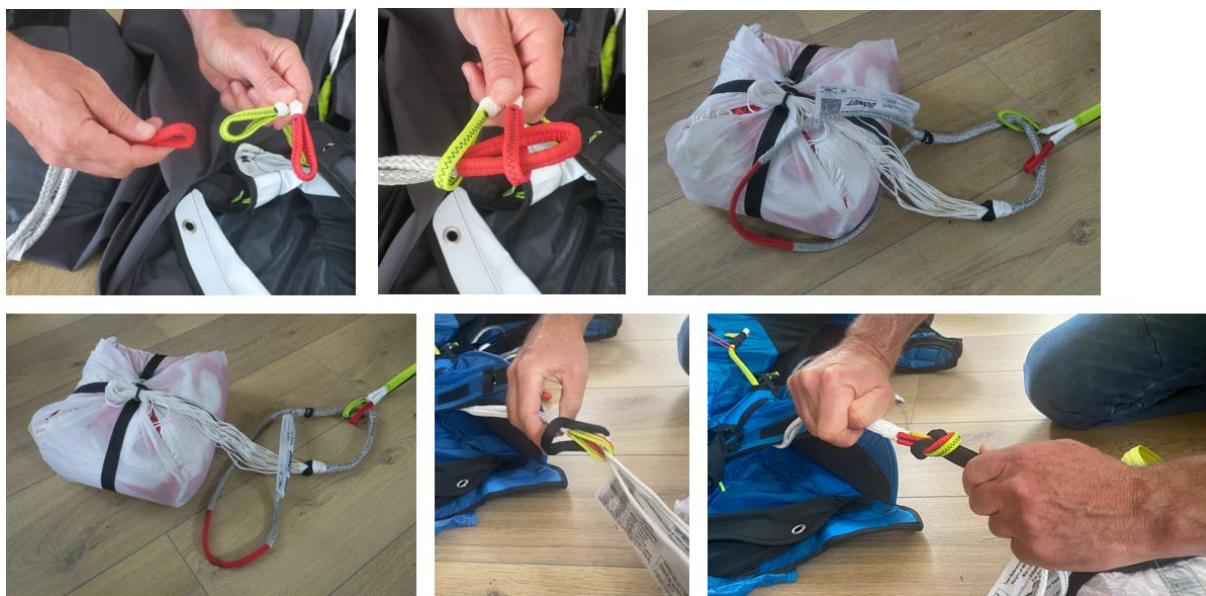
The harness is delivered with AD Connect. In case you have to remove them, please respect the mounting as here below. Note that it's important to keep the toggle facing towards the back of the harness so it is not mistakenly used to connect the front container. Nothing should be connected to the AD Connect toggles.



### Rescue installation

#### Risers' connection

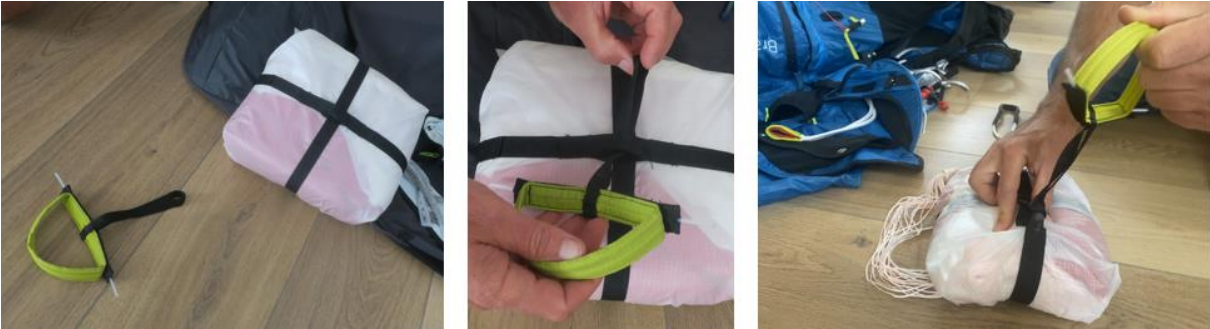
To connect your rescue to the risers, please proceed as shown here below.



If your rescue does not allow this lark's head knot assembly, you can use a maillon with suitable resistance. Follow then the instructions related to your rescue or ask a flight instructor or

professional with experience in paraglider rescue installation. By any mean, avoid friction with unsheathed Dyneema lines or ropes.

**Rescue handle connection**

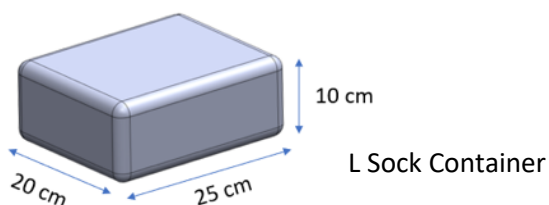


**Container closing**





## Risers' sleeve



Maximum recommended volume for the rescue is 4L for S Size, 4.5L for M size, 5L for L size.

## Rescue deployment

We recommend a rescue pull out at least once a year and at every repacking in order to verify its proper functioning.



Warning : User must check that the length between the handle and the container does not allow entanglement with the rescue lines.

## Harness packing



## COMPOSITION, CARE AND MAINTENANCE

The durability of this harness depends on your good care. Using the harness for ground handling, touch and go, speed flying or speed riding will lower its life span.

The harness is composed of Ripstop Nylon fabric, nylon elastane fabric, polyester mesh, polyester, Dyneema and nylon webbings, Nitinol rods, Aluminum toggles, TPU inflatable bag with PVC pipe, zippers and polypropylene buckles.

Take care of the following:

- Avoid excessive exposure to UV, heat and humidity.
- Pack the harness dry and store in a cool dry place.
- Do not pack it too tight to avoid permanent damages to the Nitinol rods.
- Never drag or skim your harness along the ground.
- Keep your harness clean of dirt, oils and any corrosive substance.
- This harness can be washed with a soft brush and clear water. Do not dry under direct sun exposure.

## ROUTINE INSPECTION

Regularly inspect your harness (every 20 flights or 3 months) by visually check the stitching, webbing and all structurally important areas. Pay particular attention to the webbing around the hang point area. Same intervals apply for your rescue / harness connections and for AirPillow's tightness when inflated.

If you find any damage or if you are in any doubt make sure the harness is checked by a professional or contact your dealer immediately.

Harness should be checked and inspected thoroughly by a professional before reaching 5 years or 500 flights.

Change the AD Connects after 5 years or 500 flights.

**Warning!** Do not use the AD Connects if any sign of damage is visible or if they have suffered from a shock.

# PRODUCT REGISTRATION AND GUARANTEE

This product is guaranteed 2 years from date of purchase against production faults

**Product registration – Produktregistrierung - Enregistrement de produit**

**Model/Modell/Modèle: The Sock SUPERLIGHT**

Size/Größe/Taille:  S  M  L

Serial Number/Seriennummer/Numéro de série: \_\_\_\_\_

Date of Purchase/Kaufdatum/Date d'achat: \_\_\_\_\_

First Flight/Erstflug/Date de premier vol: \_\_\_\_\_

**Customer/Käufer/Client:**

Family Name/ Nachname/Nom de famille: \_\_\_\_\_

First Name/Vorname/Prénom: \_\_\_\_\_

Address/Adresse/Adresse: \_\_\_\_\_

\_\_\_\_\_

Tel: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Product Registration: cut off and send to AIRDESIGN, or register online at: [www.ad-gliders.com](http://www.ad-gliders.com)

Produktregistrierung abtrennen und einschicken, oder online registrieren unter: [www.ad-gliders.com](http://www.ad-gliders.com)

Enregistrement produit : couper et envoyer à AIRDESIGN, ou enregistrer en ligne sur : [www.ad-gliders.com](http://www.ad-gliders.com)

AIRDESIGN GmbH | Rhombergstraße 9, 3.Stock | 6067 Absam | AUSTRIA

## RESPECTING NATURE AND ENVIRONMENT

Finally, we would ask each pilot to take care of nature and our environment. Respect nature and the environment at all times but most particularly at take-off and landing places.

Respect others and paraglide in harmony with nature.

Do not leave marked tracks and do not leave rubbish behind.

Do not make unnecessary noise and respect sensitive biological areas.

The materials used on the harness should be recycled.

Please send old AIRDESIGN harnesses back to AIRDESIGN offices. We will undertake to recycle the harness.

**Thank you, now put your Sock on, go out and enjoy your flights!**

EN & LTF Certification :  
AirTurquoise SA  
Rte du Pré-au-Comte 8 - 1844 Villeneuve / Switzerland

CE Conformity assessment :  
RICOTEST- Notified Body N.0498  
Via Tione 9 - 37010 Pastrengo (vR) - Italy