



PRODUCT MANUAL - BIPAX 2

Product Manual

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1. THANK YOU FOR FLYING ADVANCE

Thank you for choosing an ADVANCE quality product with Swiss engineering.

User manual

This user manual is an important part of your product. You will find instructions for Putting into service and use in practice as well as important information on safety, care and maintenance. We encourage you to read this document carefully before your first flight. Video instructions can be accessed via QR codes if available. All information can be found on our website in the "Download" section.

Download section

Product Registration

Register your new ADVANCE product online in your MyADVANCE account no later than 10 days after purchase for a warranty extension or to be informed promptly by e-mail about updates and safety-relevant findings regarding your product

Product registration

Our story: Pioneering spirit and Swiss precision

Putting our ideas into the air. That's what we can do. For more than 30 years, ADVANCE have kept the needs and wishes of our pilots at the forefront. With Swiss precision we refine model after model. Highest quality and absolute reliability have our top priority, in the air and in our customer service. So from pioneers we have become perfectionists, and a leading worldwide comprehensive service provider.

Questions and support

You can always contact your ADVANCE dealer or our support team, we will be happy to help you. Send an email to support@advance.ch

We wish you many exciting and enjoyable hours in the air with your new product!

2. SAFETY INFORMATION

2.1. General safety advice

Flying a paraglider calls for appropriate training and a sound knowledge of the subject, as well as, of course, the necessary insurance cover and licence. A pilot must be able to correctly assess the weather conditions before taking off. His or her capabilities must be adequate for the actual paraglider. The paraglider pilot is also required bear a sense of responsibility towards the natural world, especially regarding the preservation of wildlife and landscape.

Warning

Wearing an adequate helmet, suitable boots and clothing, and carrying an emergency parachute (a 'reserve') are essential. Before every flight all items of equipment should be checked for damage and airworthiness. A proper pre-takeoff check must also be carried out.

Warning

Every pilot bears sole responsibility for all risks, including injury or death, when participating in the sport of paragliding. Neither the manufacturer nor the seller of a paraglider can guarantee or be held responsible for the pilot's safety.

2.2. Range of use and load limits

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Like all commercially available reserve parachutes, paraglider harnesses are never suitable for free fall parachuting because their design and construction details do not allow such a thing. Neither the reserve parachute nor its attachments to the harness can withstand the loadings involved in an abrupt opening.

All harness adjustments must be made before the harness is flown. Correct adjustment of the BIPAX 2 greatly contributes to safety, correct function and comfort in flight.

Warning No protector can offer complete protection against injury. The EN/LTF certified protector can only absorb some of the energy of impacts and therefore minimise injuries that might result from unlucky takeoffs and landings.

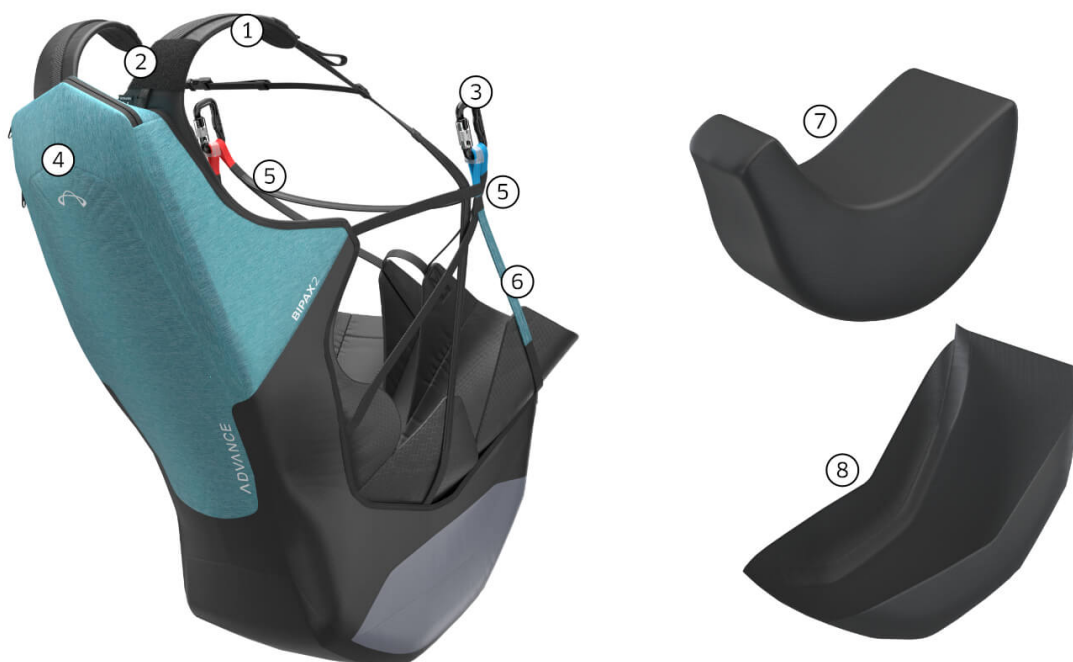
Warning The BIPAX 2 certification up to 120 kg is restricted exclusively to paraglider sport.

3. FEATURES

The BIPAX 2 is a tandem passenger harness suitable for body heights from 155 to 202 cm.

3.1. Features & Delivery

1. Adjustable shoulder straps
2. Velcro for Mini Vario
3. Foras carabiners with Antitwist
4. Back stowage and separate pocket
5. Closure system with colour coded loops
6. Two blue webbing markings as handles for the passenger or as pull points for the launch helpers
7. Air-Foam-Hybrid protector
8. Replaceable base
9. Getting Started Booklet



4. PREPARING THE PRODUCT

4.1. Delivery

Every ADVANCE harness must be checked by the authorized dealer before delivery to ensure that the scope of delivery is complete and that the basic settings are correct.

Register your new ADVANCE product in your MyADVANCE account no later than 10 days after purchase to benefit from the extended ADVANCE warranty. More information under Warranty.

4.2. Adjusting the harness

4.2.1. Closing & Adjusting

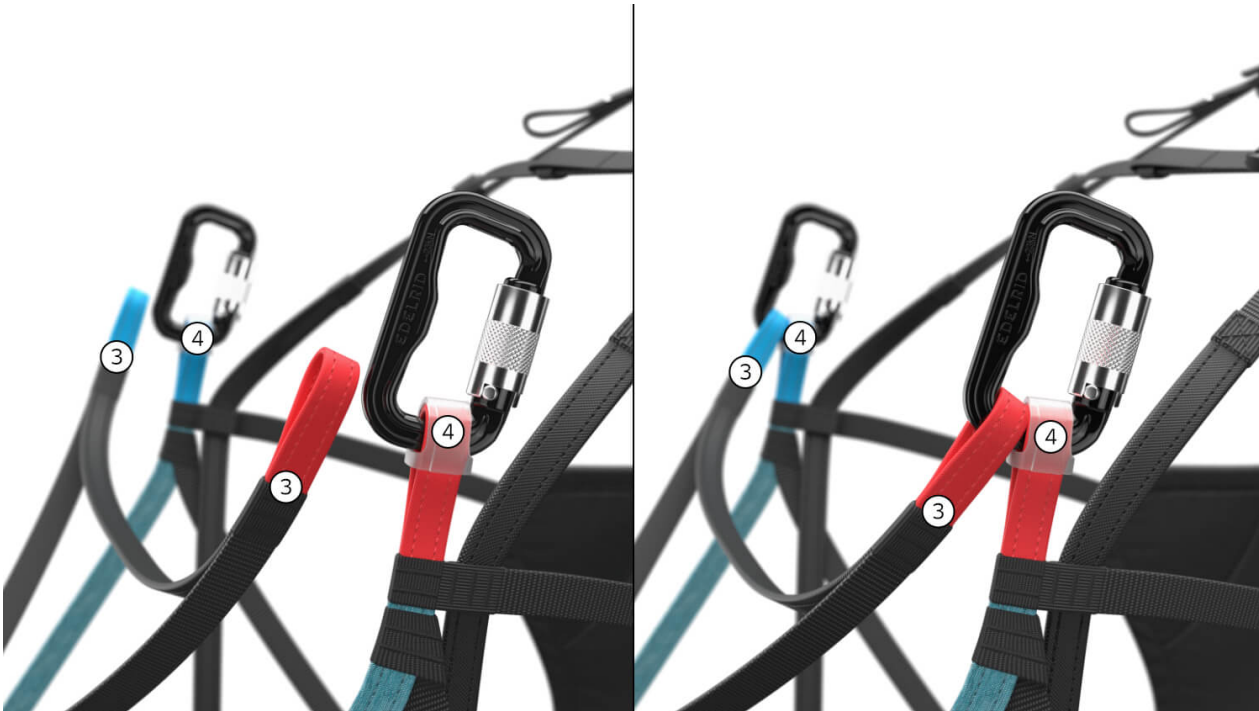
Preparing the harness

Loosen the shoulder straps (1) completely, open the small chest strap (2) and unhook the leg straps resp. the front strap (3) from the carabiners.



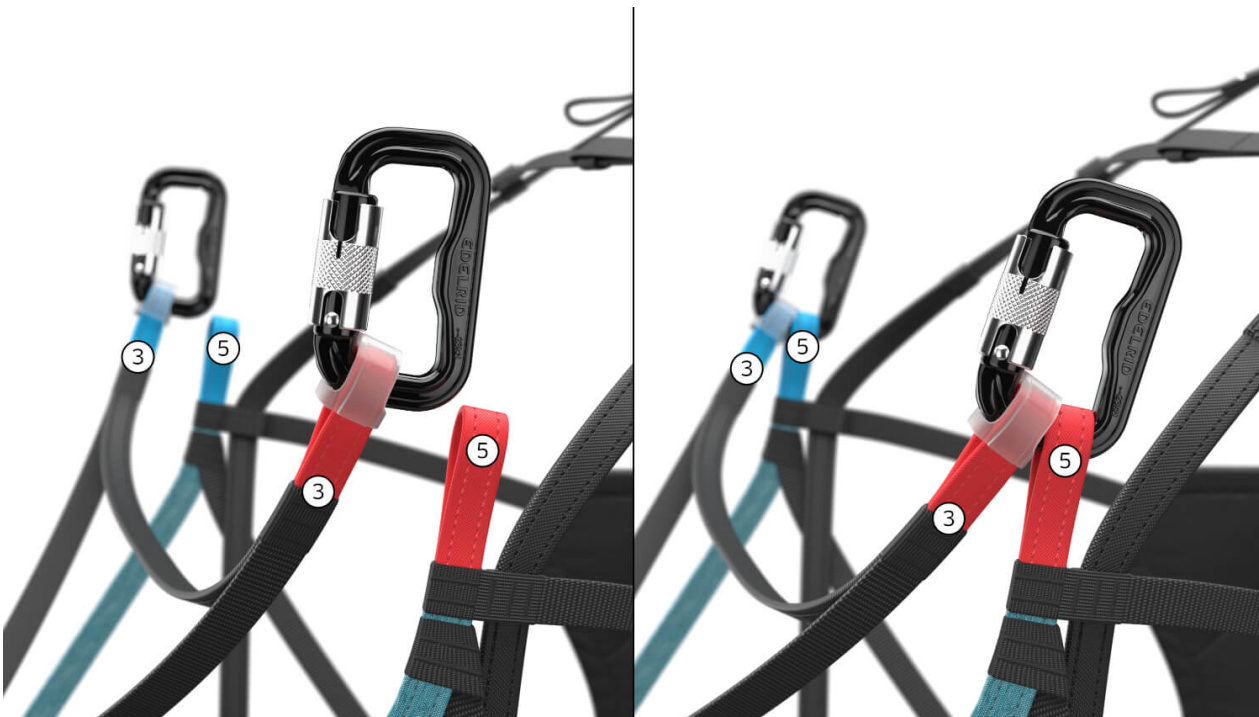
Tighten and fasten

Put the harness on your passenger. To close the harness, hook the red and blue loops of the leg straps resp. the front strap (3) into the carabiners (4).



Alternative closing method

The carabiners are attached directly to the leg straps resp. the front strap (3) and fixed with the antitwist rubber. To close, grasp the carabiners and hook them into the suspension points (5).



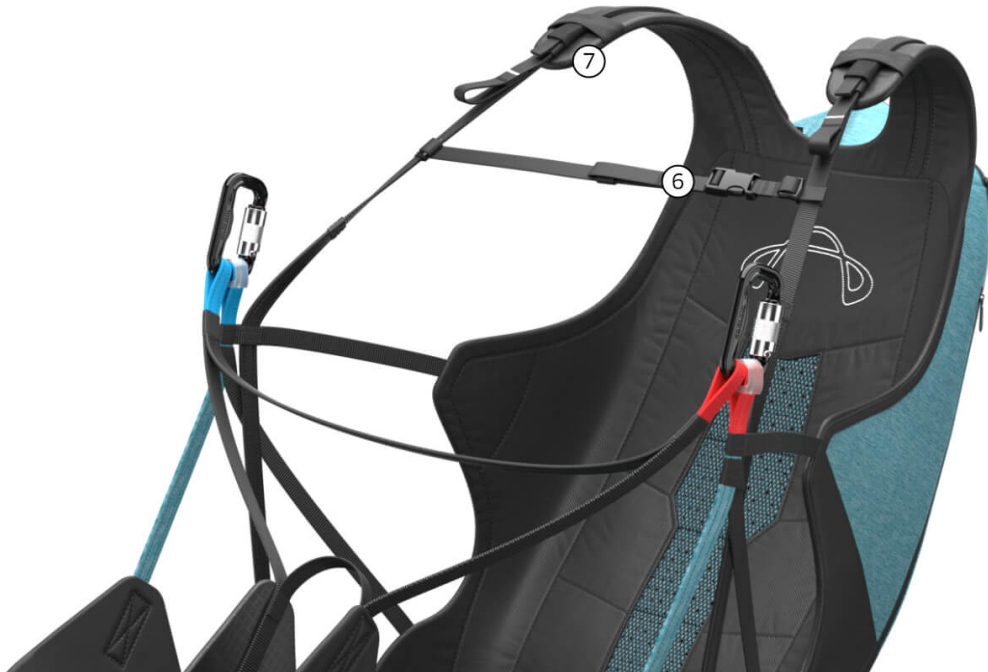
Warning With the alternative method, the carabiner opening must face forward.

Hint With the alternative method you reduce the risk of hooking the passenger into the spreaders without closing the harness. On the other hand, the carabiners hanging down from the leg straps can hit the ground and come into contact with dirt.



Adjusting the harness

Close the small chest strap (6) and adjust the shoulder straps (7) to the appropriate length.



5. PREPARATION FOR FLIGHT

5.1. Takeoff preparation and checks

Before every takeoff carry out the following pre-takeoff checks:

1. Harness and helmet buckled, reserve OK?
2. Lines free?
3. Canopy open?
4. Wind direction and strength assessed?
5. Airspace and field-of-view clear?

Hint

To get the wing in the right shape for takeoff do the following: pull the brake lines in while you are sorting the lines until the canopy arrives at the perfect banana shape.

Warning

Before each flight, check that the reserve handle is in the intended position and that the yellow locking cables of the reserve handle are correctly stowed.

6. USE IN PRACTICE

6.1. Attaching the harness

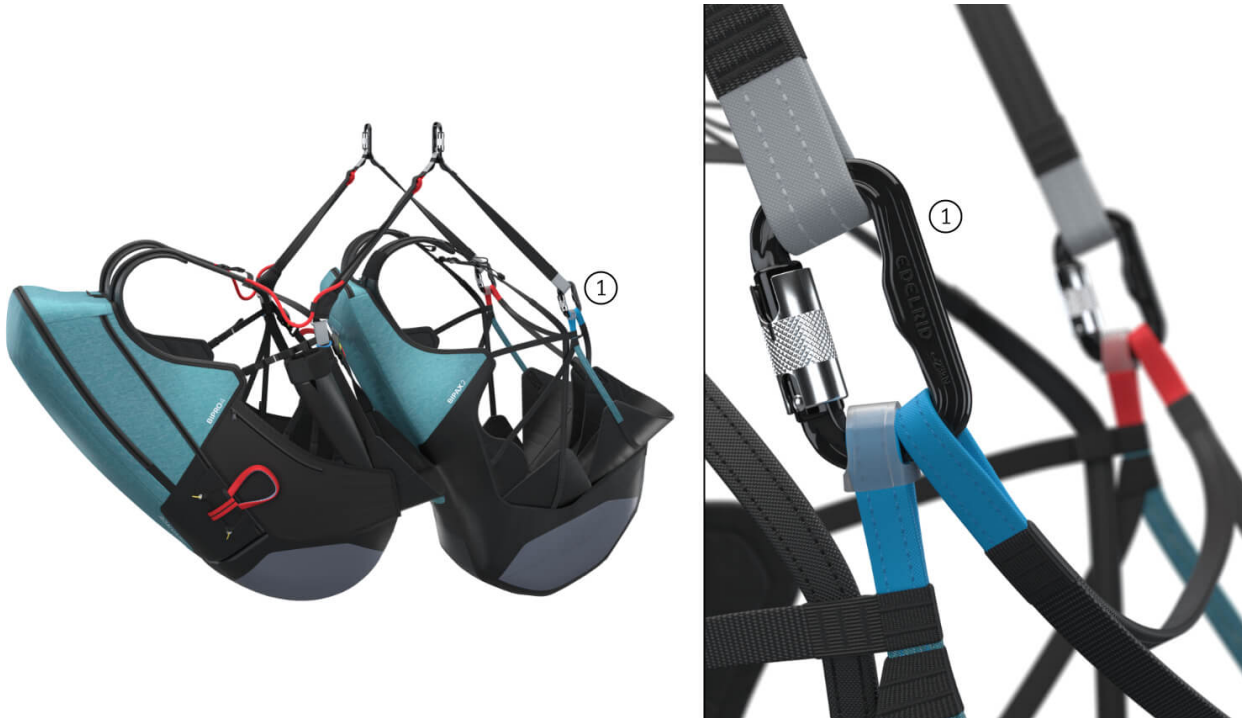


Connecting with spreaders

Hang the BIPAX 2 correctly in their support loops on your tandem spreaders.

6.2. Winching

The BIPAX 2 is suitable for winch towing. The tow link must only be fixed to the harness's main carabiners (1). If there is any doubt, the winch driver or a person authorised by the manufacturer should be consulted.



Warning Make sure the carabiners are correctly closed, and not twisted.

7. MAINTENANCE

7.1. Maintenance harness

General care

ADVANCE recommends that you visually inspect the harness regularly for signs of wear. This includes checking the general condition, the condition of the seams and straps and the functioning of the buckles. In addition, the rescue parachute must be regularly aired and repacked. Any defects (damaged seams, webbing, etc.) must be repaired immediately by the manufacturer or an authorized service center.

Warning Do not make any modifications to your harness and never fly with a harness whose straps are damaged in any way.

Warning If the harness was used as part of a rescue emergency opening, the harness must then be inspected by the manufacturer or an authorized service center.

Ultraviolet radiation, temperatures below -20°C and above +60°C, humidity, salt water, aggressive cleaning agents,

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improper storage as well as mechanical stress (e.g. grinding on the ground) accelerate the aging process.

The life span of your harness can be extended considerably if you pay attention to the following points:

- Allow wet or damp harness to dry completely at room temperature or outside in the shade. Repack the reserve regularly.
- Thoroughly rinse a harness that has been in contact with salt water with fresh water. Always repack the reserve.
- Clean the harness only with fresh water and neutral soap if necessary, never with solvents.
- Check the main connection bridle between the harness and the reserve after every reserve deployment.
- Have the harness checked by a qualified person after any very high loading (e.g. serious impact).
- Inspect the harness regularly for defective seams and straps, especially the reserve connection and the seams of the main carabiners.
- Do not subject the harness to extremes of temperature and make sure it gets adequate ventilation, to prevent condensation forming.
- Do not expose the harness unnecessarily to the sun (UV radiation) before and after the flight.

Packing the reserve parachute

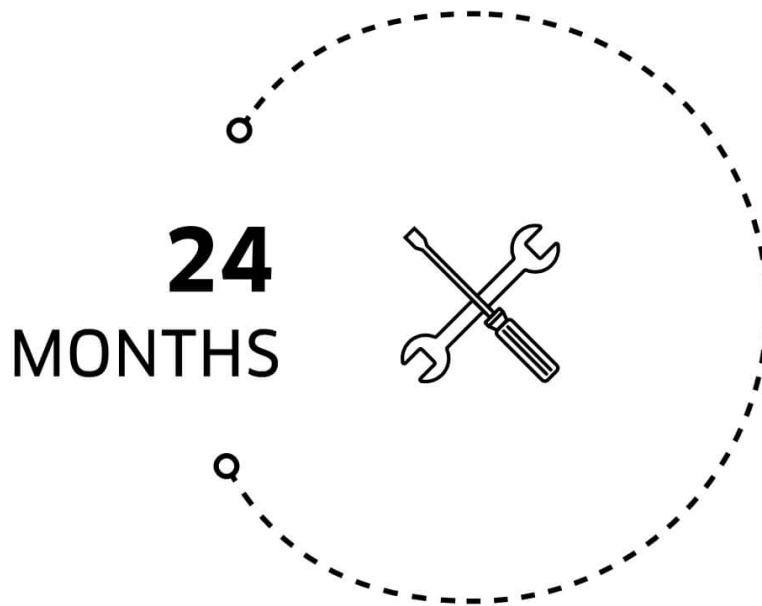
Most reserve parachute manufacturers recommend maintenance or repacking of the reserve parachute every 6 months to ensure reliable and quick opening at all times. If the reserve gets wet, damp or overheated, it must be definitely repacked. We strongly recommend that you let a qualified person pack your reserve. ADVANCE also strongly recommends that you regularly check the yellow locking cables in the locking loops of your harness. It is sufficient to move the cables slightly.

7.2. Air-Foam Hybrid

The foam protector does not require any special care, but it should definitely be inspected for possible damage after an impact. In case of damage to the outer shell, the protector must be replaced. If you are flying with the Permanent Protector system, also check the sleeve of the protector element.

7.3. Check harness

Inspect your harness regularly for damage and have it thoroughly visually inspected by a professional every 24 months. The inspection includes a visual assessment of the fabric, straps and connections, major stitching and main carabiners. All parts are inspected for tears, kinks, pre-damaged seams, damage and severe wear. Detected damage requires the harness to be professionally repaired before the next flight.



You can find more information about the check in the "Service" chapter of this manual or at www.advance.swiss.

7.4. Carabiner service life

EDELRID FORAS

Maximum 5 years

The carabiners are high quality EDELRID Foras Alu Carabiners (51 g, 23 kN). Aluminium carabiners must be regularly visually inspected for metal discolourations, dents, obvious scratches or cracks. In addition you must be careful that a carabiner is always loaded vertically – along its major axis. If a carabiner shows any of the above visually evident conditions or has been incorrectly loaded, both carabiners must be replaced immediately. In any case the carabiners must be replaced no later than 5 years after being put into service or first flight (if unknown, 5 years after production date), and may not be used again. The production date is printed on the carabiner.



7.5. Overstress

When using the product there is always the risk of unpredictable overstress in flight, for example caused by flying conditions or a surprise bump in the air. In rare cases the product could suffer damage. This is especially disappointing in that, usually, neither the manufacturer nor the pilot can be held responsible. Light products tend to be more susceptible to damage due to overstress.

Info

In the event of damage, please contact your dealer and they will contact us. We strive to be accommodating in such cases and work together to find the best possible solution. This is individual and depends on the assessment of each case.

7.6. Repairs harness

You should never carry out harness repairs yourself. The various seams are prepared with the greatest precision. Only the manufacturer or an authorised Service Centre should carry out repairs with original materials.

7.7. Removing & replacing components

General

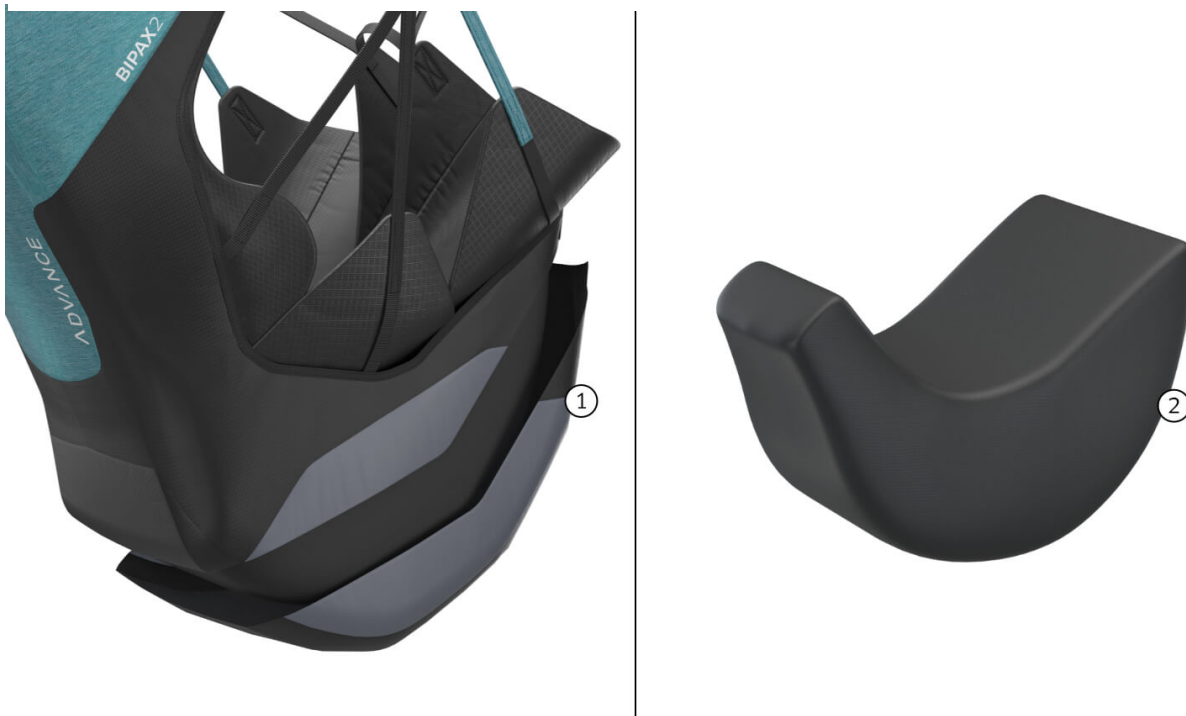
The BIPAX 2 is delivered with a built-in protector and mounted base. All individual parts can be easily removed, e.g. to carry out any repairs or to replace them.

1. Underside

The harness base can be replaced if damaged. To do this release the Velcro surround and fit the new harness base

2. Protector

The Air-Foam-Hybrid protector can be changed. It is removed via a zip in the lower back pocket.



7.8. Disposal

Environmental protection plays an important role in the selection of materials and the manufacture of an ADVANCE product. We use only non-toxic materials and fabrics that are subjected to continuous quality and environmental impact assessments. When your equipment reaches the end of its useful life, please remove all metal parts (recycling) and dispose of straps and material in the designated facilities.

8. SERVICE & WARRANTY

8.1. ADVANCE Service Center

ADVANCE operates two company-owned service centres that carry out checks and repairs of all types. The workshops based in Switzerland and France are official maintenance operations, which have many years' experience and in-depth product-specific expertise. The ADVANCE worldwide service network includes other authorised service centres that provide the same services. All service facilities use original ADVANCE materials exclusively. You can find all information on checks and repairs and the relevant addresses at www.advance.swiss.

8.2. Support (Website)

At www.advance.swiss you will find detailed information about ADVANCE and our products as well as contact details for any questions you may have.

You also have the opportunity to register your product online up to 10 days after purchase in order to enjoy the full benefits of the ADVANCE warranty. You can also:

- Keep yourself updated about new safety-related findings about ADVANCE products.
- Download an application form for the check at ADVANCE as a PDF in order to be able to send in your product.
- To find an answer to a burning question under FAQ (frequently asked questions).
- Subscribe to the ADVANCE newsletter to receive regular e-mail updates about new products and services.



8.3. Online Account

Set up a MyADVANCE account at www.advance.swiss/warranty and register your product directly online after purchase.

In the MyADVANCE account you will find all documents for your product as PDF, e.g. the manual, security updates and much more. You can also view spare parts for your product and make support requests directly.

8.4. Warranty

As part of the ADVANCE warranty, we undertake to rectify any defects in our products that are attributable to manufacturing faults. In order for a warranty claim to be made, ADVANCE must be notified immediately on discovery of a defect, and the defective product sent in for inspection. The manufacturer will then decide how a possible manufacturing fault is to be rectified (repair, replacement of parts or replacement of the product). Basically, the legal warranty obligations of your country apply. If you register your product for free on our website within 10 days of purchase you receive an extended warranty of 12 months beyond the legal warranty period of your country!

Warranty and Service Intervals begin from the date of the glider's first flight, recorded on the identification plate. If no date is evident the applicable date is that on which the glider was transferred from ADVANCE to the ADVANCE dealer. The ADVANCE warranty does not cover any other claim. Claims in respect of damage resulting from careless or incorrect use of the product (e.g. inadequate maintenance, unsuitable storage, overloading, exposure to extreme temperatures, etc.) are expressly excluded. The same applies to damage attributable to an accident or normal wear and tear.

9. TECHNICAL DATA

9.1. Data

BIPAX 2		M
Pilot height	cm	155-202
Chest strap width	cm	~45
Carabiner height	cm	~46
Harness weight	kg	1.85
Harness certification		EN 1651:2018+A1:2020 & NfL 2-565-20 / 120 kg

9.2. Materials

We continuously review and test the variety of materials on offer. Like all ADVANCE products, the BIPAX 2 has been designed and manufactured according to the latest findings and processes. We have chosen the materials very carefully and with the strictest quality requirements in mind.

Materials



Main straps	Polyamid 15mm, 1320daN
Shoulder straps	Polyamid 15mm, 1320daN
Leg straps	Polyamid 15mm, 1320daN
Seat area	Nylon 210D Oxford
Outer covering	N/P 350D Melange Oxford, Nylon 210D small R/S
Carabiner	Foras, Twist Lock, 23kN, 51gr.