



ADVANCE STRAPLESS^{BI2}

Manual
Edition 1.0 / 28.08.2019

Welcome to ADVANCE

Many thanks for choosing the STRAPLESS BI 2, an ADVANCE high-quality ultralight product. We wish you plenty of fun and many enjoyable hours in the air with it.

This Getting Started is both guide and manual in one, and therefore forms an important part of your flying equipment.

Here you will find not just instructions for setting up and use in practice, but also important advice about safety, care and

maintenance. We therefore advise you to carefully read it through before your first STRAPLESS BI 2 flight.

Register your product on www.advance.ch/warranty, so that you will receive information about product updates and safety relevant matters about the STRAPLESS BI 2, direct from us.

Important notice

The STRAPLESS BI 2 is certified according to DIN EN 1651 for a maximum pilot weight of 110 kg (load test only).

Due to its ultra light construction, it is completely forbidden to carry out acro or extreme flight manoeuvres, including the taking part in safety training (SIV) and winching!

Every pilot carries sole responsibility for all risks associated with paragliding, including injury and death. Neither the manufacturer nor the seller of paragliding equipment can guarantee the safety of the pilot or be held responsible for it.

Delivery and basic settings

Before delivery every ADVANCE product has to be checked by the dealer for completeness of the delivery package and correct basic settings.

Delivery of the STRAPLESS BI 2 includes:

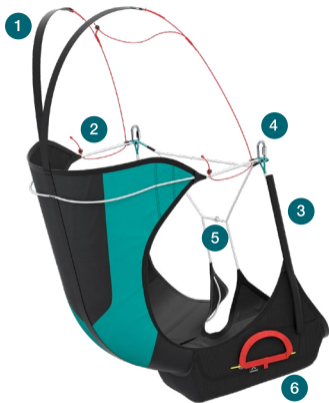
- Harness
- Two MAILLON RAPIDE main support quicklinks with O rings
- Reserve handle with inner container
- Packing bag

Options available for the STRAPLESS BI 2 are:

- Tandem spreaders Light
- STRAPLESS 2 passenger harness
- LIGHTPACK rucksack of 83 or 91 litres volume

Features

- 1 Adjustable shoulder straps with minichest strap
- 2 Shoulder strap adjustment
- 3 Channel for reserve V-connection lines
- 4 Maillon Rapide main supports (quality quicklinks)
- 5 Bullet toggle, opened for more leg movement
- 6 Reserve compartment for 5.0 to 9.0 litres reserve volume



Setting up

Before the first flight set the STRAPLESS BI 2 shoulder strap lengths for your height. To adjust this length move the black balls at the lower ends of the lines in the desired direction.

Leave the EASY CONNECT LIGHT SYSTEM in the main support maillons for mounting the reserve system.


Connecting to the paraglider:

First the spreaders must be connected to the STRAPLESS BI 2 using the supplied Maillons Rapide. These can be fixed in position by rubber rings.


Now connect your paraglider with the STRAPLESS BI 2 following the instructions for your spreaders.


Make sure the carabiners are completely tightened and can only be loaded in their lengthwise direction.

Installing the reserve

 **Caution:** Installing a reserve parachute must be done by a skilled person. Your safety depends on it!

Every reserve/harness combination has its own peculiarities. It is essential that pilot and reserve packer have confidence in the system, and are fully familiar with its functioning – especially when the combination is a new one (new reserve in regular harness or vice versa, or both new). Only then can reliable operation be assured.

 **Caution:** In every case safety must be confirmed by a personal test release/compatibility check – to prove that the chosen reserve works with the STRAPLESS BI 2.

 **Caution:** When newly folded, a reserve volume can increase by up to 30%. ADVANCE therefore strongly recommend a fresh compatibility check after every repack.

Steerable reserves

The STRAPLESS BI 2 is not suitable for steerable reserves.

Packing the reserve in the inner container

Pack your reserve to the shape and size of the supplied STRAPLESS BI 2 inner container. When laying the folded parachute in the inner container put the lines opposite the reserve handle. Leave approximately 90 cm of the lines free for closing the inner

container. (There will be three loops to make.)



Caution: The STRAPLESS BI 2 reserve pocket is rectangular in shape with the longer length aligned with the direction of flight.

Closing the inner container

Fold the inner container flaps over the bungee flap in order of their numbers (1–3). Secure the top flap (3) with a loop of lines,

of a length of 5 to 6 cm (about 3 finger widths) through the bungee. Check the tension of the retaining bungee loop, and adjust as necessary.

The line loop should release from the bungee under the weight of the reserve alone.

Now close the outer flap of the container with two more line loops of equal lengths (5 to 6 cm), as used to secure flap 3. Both these secondary line loops are secured by double elastic bands which lead through the eyelets on the outer flap.





Fixing the reserve connection lines to the STRAPLESS BI 2

First, the spreaders must be attached to the STRAPLESS BI 2. These can be stabilised on the main maillons with rubber O rings. Now secure the integral reserve connection lines in their channels on the backs of the spreaders.

The left hand line goes through the channel on the chest strap to the right hand side where it joins the right hand

connection line. In addition fix each connection lines to its adjacent main support Maillon with an O ring (provided).

 **Caution:** Make sure that the connection lines run behind the main maillons (facing pilot)! If this is not the case the reserve may not deploy correctly.

 **Info:** If the reserve is thrown the O rings snap when the reserve lines are tensioned.

Connecting the reserve to the harness

Connect the spreader connection lines to the reserve bridle with a Maillon of 2,400 daN minimum breaking strain. Stabilise the webbing loops on each end of the Maillon – using rubber O rings or neoprene bands – to prevent slipping and side-loading the maillon during a reserve opening. Joining the two loops directly may only be done by the harness manufacturer or his trained and authorised representative.

Incorrect looping could result in slipping when a reserve opens - causing heating, melting and failure of the connection.





Caution: Never stabilise the connections on the maillon with sticky tape instead of rubber O rings!

Putting the inner container in the reserve pocket

First lay the reserve connection lines in the reserve pocket, then the inner container. We recommend that the inner container

closure flaps face downwards (towards the ground in flight).

 **Caution:** If a repacked reserve does not fit the inner container it must be refolded to the shape of the inner container.

 **Caution:** Never tie the inner container to the reserve!

Closing the reserve pocket

The outer container flaps are closed by closure loops and yellow cables. The design of the outer container creates the necessary tension and pressure on the closure loops and cables. Thread two short lengths of packing line through the white closure loops on the lower container flap. Thread this right hand help line through the right eyelet of the right hand and upper flaps of the container; secure the loop with a



reserve handle yellow cable. The V- lines now should lie between the eyelets, and the reserve handle can be pre-positioned on the velcro. Then repeat for the left side. Finish by stowing both ends of the yellow cable in their button holes.

Compatibility check


Correct stowage of a reserve parachute must always be checked by a test release. Put the harness on and hang the STRAPLESS BI 2 up by its main quicklinks from a harness stand. Pull the reserve out by its handle. This test is not acceptable if the tester is not sitting in the harness.


It must be possible to pull the reserve handle out from the flying position, in accordance with the requirements of this

manual. If uncertain about this you should consult an expert or contact your regular ADVANCE dealer. The correct throwing technique must be used – an outwards pull to the side to release the reserve. Otherwise the release may not work properly. The following factors can complicate or prevent a reserve opening, especially if two or more of them combine:

- Reserve too big – too much volume for the outer and/or inner container.
- The reserve has not been folded to the shape of the inner container.
- The reserve is not pulled with the correct technique. A pull to the side (not up) is correct.
- Volume of the reserve was originally OK in a new harness, but after a repack is too big.

- A small person with short arms can sometimes find it difficult to pull the reserve.
- High g in effect while trying to throw (more than 3g, e.g. in a spiral dive).

 **Info:** Your own successful compatibility check creates confidence in your reserve system.

 **Caution:** Before every flight check that the reserve handle is in its correct

place, and that the yellow release cables are correctly stowed.

 **Info:** We recommend that during every flight you make a brief check of your reserve handle's position. This commits its position to the instinctive memory. We also advise you to mentally rehearse the sideways throwing movement.

Putting the harness on

When the STRAPLESS BI 2 is fitted with a reserve you have to step into the closed harness from above. Then you pull the shoulder straps over and fasten the small chest strap with the ball.



Attention: crampons and heavy duty mountain boots can cause damage!



Handle with care

The STRAPLESS BI 2 is extremely light and intended for a specific use. The choice of materials and design make the harness sensitive to damage caused by inappropriate handling. The “Handle with Care” label should always be borne in mind – the lifespan of this product very much depends on your awareness and consideration.

The following actions can significantly reduce the life of your STRAPLESS BI 2:

- Speed Flying and Speed-Riding
- (Coast) Soaring with permanent touch & go
- Extensive Ground-Handling

Warranty and Service

Set up a MyADVANCE-Account on www.advance.ch/warranty and register your STRAPLESS BI 2 direct online after purchase. You will then benefit from the extended ADVANCE warranty. This includes an extension of the legal warranty obligation of your country by one year.

Your STRAPLESS BI 2 must have a check every 24 months and be regularly inspected. Damage must be immediately rectified by an authorised service station.

More detailed information about the worldwide ADVANCE Service Network can be found on www.advance.ch. There you can also find advice about safety and up-to-date messages, as well as answers to FAQs.

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