



ADVANCE FRONTCONTAINER^{ZIP LIGHT}

Manual
Edition 1 / 04_2019

Contents

Thank you for flying ADVANCE	3
About ADVANCE	4
The ZIP Light Front Container	5
Easy to close and compact	5
Notable features of the ZIP Light Front Container.	5
Safety advice	6
General recommendations for paragliding	6
Setting up	7
Delivery	7
Checking the reserve volume	8
Fitting the reserve handle Inner container	9
Connecting the reserve to the ZIP Y-connection	10
Packing the inner container in the ZIP Light front container	11
Closing the four container flaps	11
Closing the ZIP Light front container	12
Fitting to a different harness.	13
Hanging the reserve on the harness.	14
Compatibility check	15

Service & Warranty	17
ADVANCE Service Centre	17
ADVANCE internet site	17
Warranty.	18

Thank you for flying ADVANCE

We congratulate you on your choice of the ZIP Light front container, another quality product from ADVANCE. We hope that you will spend many rewarding hours in the air with it.

This manual is an important part of your flying equipment. In it you will find step by step instructions about setting up the container and using it in practice, and also important advice about safety, care and maintenance of the ZIP Light front container. Therefore we advise you to carefully read through this document before your first flight with the product.

All relevant information is ready for you to download from our website on www.advance.swiss. The latest version of this manual, as well as further information, can be found on www.advance.ch.

Should you have any questions or problems please contact your retailer or ADVANCE direct.

We wish you a lot of pleasure from your ZIP Light front container and always “happy landings”.

Team ADVANCE

About ADVANCE

ADVANCE, based in Switzerland, is one of the world's leading paraglider manufacturers. Since it was founded in 1988, the company has consistently pursued its own directions and concepts, both in development and production. The results are quality products with distinctive characteristics.

Behind the ADVANCE brand name is a team of specialists who share the passion and trust in the company's products. At home in the air themselves, they contribute their valuable personal experience and dedication to the working processes.

Total control of the production process and supervision of the working practices at the ADVANCE factory in Vietnam ensure a high standard of workmanship. Long term relationships with fabric and line manufacturers means that ADVANCE knowledge and expertise also finds its way directly into the development of new materials.

ADVANCE attaches great importance to after-sales customer support, and has built up a worldwide service network for this purpose. An on-going interaction with its customers brings in a steady flow of new knowledge that finds its way into ADVANCE products, thus completing the «Circle of Service».

The ZIP Light Front Container

Easy to close and compact

The clever ZIP Light front container goes especially well with the EASINESS light reversible harness, but is also very suitable for use with other harnesses. Unique: After easily closing the four stretchy neoprene container flaps the container volume is compressed by closing the convenient zip on the back.

Notable features of the ZIP Light Front Container

The front container has an easy-to-pull reserve handle with the standard ADVANCE yellow plastic cables (3.7 kg release force). There's a Velcro surface on the top for fixing a small vario or other mini electronics of your choice.

The ZIP Light front container is not suitable for steerable reserves.

The ZIP Light front container has a number of special features:

- 3 sizes (S: 2,0–2,7 l, M: 2,5–3,5 l, L: 3,5–5,5 l)
- 4 stretchy easy-to-close front container closure flaps
- Zip fastener along the back to compress the container after the flaps have been closed
- Easy-to-pull reserve handle (release force 3.7 kg) with two yellow ADVANCE plastic release cables
- Velcro surface to hold a small flight instrument

Safety advice

The ZIP Light front container is only to be used for paragliding.

It is important that the ends of the ZIP Light front container Y-connections are hung in the harness carabiners before the paraglider risers. In addition, the carabiner gates must face rearwards (opposite the flight direction), so that, if the reserve is thrown, the reserve connection does not cross the paraglider risers.

Correct installation of the reserve must be tested by means of a personal trial release (compatibility test).

General recommendations for paragliding

Paragliding requires suitable training and an adequate knowledge of the equipment, as well as the necessary insurance and licence. A pilot must be able to correctly assess the current weather conditions before embarking on a flight. In addition the pilot's flying skills must be adequate for the demands of the paraglider and equipment to be used.

Wearing an adequate helmet, suitable footwear and clothing, and the carriage of an emergency parachute are all essential. Before every flight all parts of the equipment should be checked for damage and airworthiness. A takeoff check must be carried out before every flight.

Every pilot bears sole responsibility for his own paragliding risks, including injury and death. Neither the manufacturer or seller of a paraglider can guarantee the safety of a pilot, or be held responsible for it.

Setting up

Delivery

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

Delivery package

The ZIP Light front container package contains:

- Front container with a four elastic container flaps
- Reserve handle including two ADVANCE plastic release cables
- Reserve Y-connection

Checking the reserve volume

The ZIP Light front container is available in three sizes S, M and L. Size S holds a reserve of between 2.0 to 2.7 litres, size M from 2.5 to 3.5 litres and size L from 3.5 to 5.5 litres. The volume of your reserve will either be on a small label on the reserve (e.g. on the Companion SQR's certification placard) or in the reserve's manual.

It is important that your inner container is the same longish shape as the ZIP Light front container, in other words your reserve should be folded to the same long shape.

i Info: A packed reserve's volume also depends on packing style and skill, and can therefore vary. The following formula gives a very rough estimate of volume – based on reserve weight (Reserve kgs x 2.7 = volume in litres). It could still be that a reserve which meets a container's certified volume requirements, according to the formula, does not achieve a problem-free release.

For product registration and support please scan the QR code above, or visit us at: www.companion.aero

Max.TOW: 140 kg

Serial No.: SQR 140

Model: SQR 140

Companion rescue systems

conformity checked at: 2019-W08

Packing interval: 12 months

Inspection: 24 months

Area: 37,8 m²

Weight: 1707 g

Center line: 628 cm

Total length: 826 cm

Pack volume: 5950 cm³

Teststandard: EN 12491/2001


LTF NFL II 91/09

Test Ref. No.: EP_236.2018

Test Center: Air Turquoise SA

Rte du Pré-au-Compte 8,
CH-1844 Villeneuve

This air sport conformity check with the leg Germany. It c examined sample.



Warning! Not to be used at speeds in excess of 32m/s according to EI

Fitting the reserve handle Inner container

Fasten the reserve handle – supplied with the ZIP Light front container – to the centre loop on your reserve inner container. It is important that the reserve handle acts on the middle of the inner container. If your inner container does not have a central loop it cannot be used with the ZIP Light front container.

! **Caution:** The connection between the reserve handle and the inner container should never be under tension (not too short) while the reserve is in place. There must be enough free travel so that the reserve handle can pull the yellow cables free before pulling on the inner container.



Connecting the reserve to the ZIP Y-connection

Connect the reserve bridle to the ZIP Light front container Y-connection with a quicklink of at least 2400 daN working load. Stabilise the webbings in position on the quicklink – for example with rubber o-rings or Neoprene loops – so that they do not slip round the quicklink when the reserve is thrown (this could both side load the quicklink and cause heating by friction).

A direct loop to loop joining of the two connections may only be done by the harness manufacturer or someone trained and authorised by him. If this simple connection is not correctly done the webbing can slip when the reserve opens and the resulting friction and heat can melt the connection, causing failure.





Packing the inner container in the ZIP Light front container

First open the zip on the back of the ZIP Light front container. Put the Y-connection in the ZIP Light front container so that an arm of the Y-connection emerges left and right from the front container. Then put the inner container on top with the reserve handle facing towards you.



Closing the four container flaps

Fold the left and right container flaps in and thread each closure loop with a packing line (to make a 5 or 6 cm loop – about 3 finger widths). Fold the lower container flap up and thread the packing lines through the metal eyelets. Finally close the upper container flap over and thread the two packing lines through the other eyelets. Make sure that the reserve handle connection runs out of the container flaps centrally, between left and right eyelets.

Closing the ZIP Light front container

Lead the two yellow reserve handle cables through their closure loops and into their "button holes". The handle will then lie close to the front container, be visible and easy to reach.

Always make sure that the yellow cables run cleanly in position, to ensure correct release.

Then stow the reserve handle with the velcro on the container flap.

Finally pull the two packing lines slowly out of the closure loops. To avoid friction damage to these loops we recommend that you lead the packing lines under their yellow cables before pulling them out.

Depending on the size of the packed reserve you can close the zip on the back of the front container to reduce its volume.





Fitting to a different harness

Connect the lines from the ends of the Y-connection to the loops on the front container as described below. These loops take the weight of the reserve when it is hung in the harness carabiners.

Connect the grey lines from the right and left reserve connections with their respective loops on the sides of the ZIP Light front container.

Proceed as shown in the following illustration: (pic)

The supported position of the front container can be adjusted by moving the position of the knots on the lines, to suit your harness.

! **Caution:** The figure-of-8 knots should not go past the red marks on the grey lines!

! **Basic rule:** The front container should not function as a chest strap.

Hanging the reserve on the harness

Before every flight the ZIP Light front container must be hung in the harness carabiners by the ends of the red Y-connection. The carabiner gates must face aft to ensure that the reserve connection loops do not touch them: this may mean reversing the carabiner fitting direction.

! **Caution:** Always hang the reserve connections in the carabiners first, before hooking in the paraglider risers! The reserve connection cannot then interfere with the carabiner gates in flight!



Compatibility check

Correct installation of a reserve must always be checked by a personal test release – best done with the gloves you will wear in flight. Put the harness on, do it up, and then hang the ZIP Light front container in the carabiners, as described on the previous page. Then hang the harness in a harness stand. Now lean well back in the harness and pull the reserve out by its handle.



Note: It is not good enough to pull the reserve out without sitting in the harness.

The reserve handle function must work without problem, in the flying position, and according to the provisions of this manual. The force required must not be less than 4 daN or more than 7 daN. If you are not sure about this you should contact a qualified person or your ADVANCE dealer.


The correct throwing technique must be used – forwards and sideways – otherwise release may be more difficult.





Caution: make sure that the reserve handle first pulls the yellow cables out, then the inner container connection.


The following factors can make reserve opening more difficult, especially if they apply together:

- Reserve too big, too much volume for the outer or inner containers.
- Incorrect throwing technique. A throwing movement forward and to the side.
- The volume of the packed reserve was acceptable when installed in the new harness, but after a repack it is too big.
- Pilot arm length can be decisive – small pilots with short arms may have difficulties releasing a reserve under some conditions. This can especially apply if the connection between handle and reserve is too long. This length has been carefully chosen as ideal for the ZIP Light front container. Even so small people with short arms should pay special attention to this factor.
- Reserve release under high g loading (> 3g, e.g. in a spiral dive).

 **Caution:** The reserve system can only work if the front container has been correctly attached, according to the instructions.

 **Caution:** Before every flight check that the reserve handle is in its correct position and that the yellow cables are in the right place.

 **Tip:** We recommend that you make a brief reminder of the reserve handle position during each flight. This will imprint its position in the subconscious. We also advise you to mentally rehearse the sideways throwing technique.

 **Info:** If you carry out a successful compatibility yourself you will gain confidence in the reserve system.

Service & Warranty

ADVANCE Service Centre

ADVANCE operates two of its own Service Centres which carry out checks and repairs of every kind. The workshops in Switzerland and France have many years experience and fundamental product-specific know-how. The worldwide ADVANCE service network comprises further authorised centres which provide the same services. All these use ADVANCE original materials exclusively. You can find all the information about annual checks, repairs and relevant addresses on www.advance.ch.

ADVANCE internet site

On www.advance.swiss there is detailed information about ADVANCE itself and its products, as well as useful addresses to contact if you have questions.

There you can also

- register a product online after purchase, and benefit from an extension of the comprehensive ADVANCE warranty.
- inform yourself of safety-relevant knowledge about ADVANCE products.
- download a PDF booking form for a check at ADVANCE, so that you can send your glider in.

- find an answer to a burning question from the FAQs (frequently asked questions).
- sign up for the ADVANCE Newsletter, and regularly be informed by Email about news and new products.

It pays to make a regular visit to the ADVANCE Homepage because offers of services are always being extended.

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.

ADVANCE

advance thun ag
uttigengstrasse 87
ch 3600 thun

fon +41 33 225 70 10
fax +41 33 225 70 11

www.advance.ch
info@advance.ch