SUPAIR

English

BUMP STK2

User's manual

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RCS 387956790

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Introduction

Welcome to the world of paragliding according to SUPAIR, a world of shared passion.

The BUMP STK2 inflatable protection is an option for the STRIKE 2 hike&fly harness.
This option is particularly suitable for entering the world of light and performance!
This protection increases the damping characteristics of the STRIKE 2 and makes the harness more compact in the walking phase!

Originally designed for X-Alps pilots, it is intended for the hike & fly pilots looking for performance.

The design and choice of materials have been designed with the objective of comfort and lightness.
STRIKE 2 harness was certified EN 1651 : 2018 and LTF Nfl II 91/09. Indicating that it meets European and German safety requirements.

The inflatable STK2 Bump has been designed for the Strike 2 and should only be used for the Strike 2.

After reading this manual, we suggest you to check your harness in static hang-posts to adjust it before your first flight.

The principle of this inflatable protection was the subject of a patent (INPI registration number 97 11915) by Pierre Bouilloux that we filed in September 1997... and that we had not yet implemented. This patent being more than 20 years old, it has now fallen into the public domain...

N.B : Three important icons will help you when reading this manual :

 Advice

 Caution !

 Danger !!

GENERAL PRESENTATION

NOMENCLATURE

1. Envelope
2. Inflatable pocket
3. Pipe
4. Pull-push valve

OPERATING PRINCIPLE

The inflatable BUMP inflates by mouth and deflates as needed (carrying or flying).

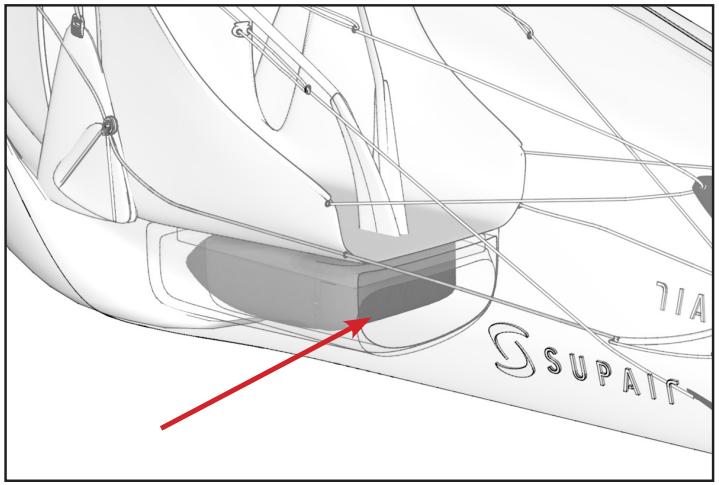
The waterproof bag is structured with internal partitions to distribute pressure and overpressure (during an impact).
The fabric envelope reinforces the strength and prevents the waterproof bag from bursting during an impact.

A tube ending in a Pull-push valve allows the bag to be inflated or deflated. This action is done at the harness shoulder straps which makes it possible to inflate the protection when the pilot is in the harness at take-off (or in flight to adjust the pressure).

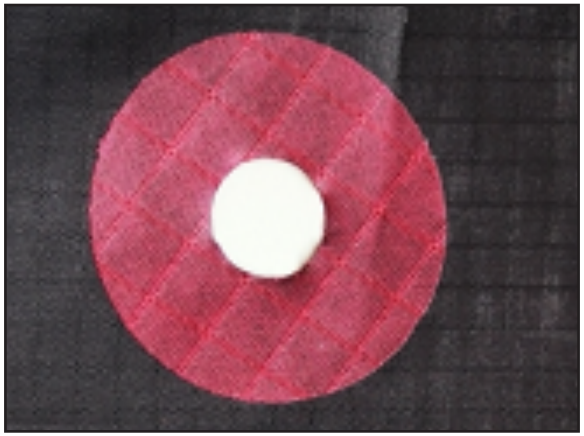
INSTALLATION IN THE HARNESS

Once fitted, the inflatable BUMP doesn't need to be removed from the harness except for inspection and maintenance.

1 Open the zip of the under-seat pocket and open (zip) the BUMP pocket



2 Insert the Inflatable BUMP by first passing the pipe through the hole at the bottom of the pocket on the top right.
The passage (8mm diameter hole may be difficult to find)



INSTALLATION IN THE HARNESS

3 Pass the pipe on the left side of the harness between the backrest and the container (under the back pocket)

4 The pipe passes between the back plate pocket and the back pocket (visible by opening the horizontal zip in the back pocket). Pass the tube through a new 8mm diameter hole into the back pocket.

INSTALLATION IN THE HARNESS

5 Pull the pipe out of the back pocket through the left exit against the left shoulder strap of the harness

6 Pass the pipe through the two elastic bands of the sling.
Don't forget to close the BUMP pocket and pocket under the seat.

WARNING

- The right side back pocket outlet is dedicated to the camel back (the hose can be pulled out in case of emergency use) and the left side outlet is dedicated to the inflatable protection. And not the reverse.

- Check that the tube is not twisted or pinched between the bag and the mouthpiece, which can affect inflation in flight.

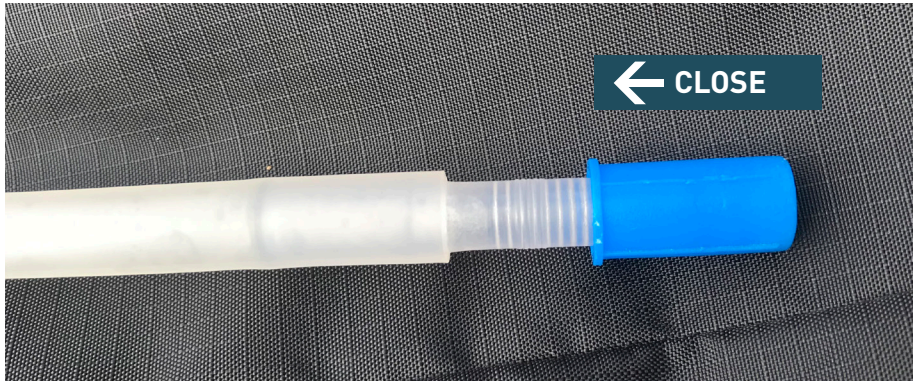
INFLATE THE PROTECTION

1. Open the pull-push valve by pulling the movable nozzle towards you

2. Inflate the bag by blowing directly into the tube. 5 long exhalations may be sufficient (depending on the pilots!).

   The bag is correctly inflated when the pressure in the bag prevents further inflation (like a buoy, there is no need to force it).

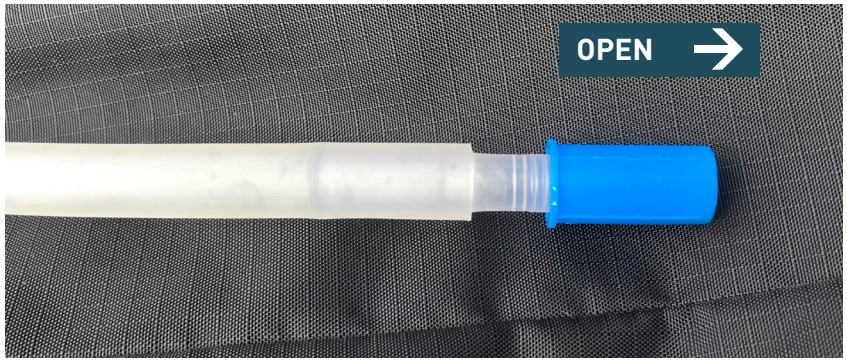
3. Close the valve by pushing the nozzle towards the bag.



USE

DEFLATE THE PROTECTION

1. Pull the movable nozzle towards you



2. Compress the harness on the protection to empty it of its air

WARNING

Don't try to turn the valve. Risk of damaging the connection with the pipe.
The only movements you need to do are pulling or pushing the nozzle.

NOTE

Influence of the pressure in the protection on the performance of the damping

What is the influence of the pressure of the protection on the damping performance?
This is difficult to establish precisely. Here is what we can say:
For the standard test: The protection is inflated and tested at the same altitude with a "normal" full inflation pressure at the mouth without forcing.

At an altitude higher than the take-off altitude, i.e. higher than the inflation altitude, the pressure in the protection increases. Supair's tests show a stable shock absorption quality compared to the test conditions.
At an altitude lower than the take-off altitude, and therefore lower than the inflation altitude, the pressure in the protection decreases. We have tested the half-inflated bag and the result shows that the impact performance is still within the standard, but with lower values than those measured when the protection is fully inflated.

It is therefore recommended that, after losing a significant flight altitude in relation to the take-off altitude, you reinflate the protection in flight using the mouthpiece (left, see page 9)

CARE

Cleaning and maintenance

Clean the BUMP envelop with water.
For the valve: clean with water and washing-up liquid.
In all cases, do not use thinner or solvent as this could damage the fibres that make up the fabric of your protection.

Life span and warranty

This protection is guaranteed for two years. This protection can be used for up to 5 years if there is no air leakage from the pocket and if the fabric cover is not damaged.

CARE

Repair

Possible on the fabric envelop.
If the air pocket or the valve or the pipe are damaged it is necessary to replace the entire protection.

Hardware & Parts

There is no spare part for this approved protection and safety product.

Materials

The pocket is in PU 300 micron, neutral anti-mold material.

The envelope is made of 210 D ripstop nylon fabrics

Recycling

We have minimized our manufacturing footprint by carefully selecting environmentally friendly materials; most of our components are recyclable.

If you estimate that your BUMP STK2 has reached the end of it life span, you can separate plastics from metals and recycle them according to your community rules in effect. As for the fabric itself, contact your local authorities to find out how to proceed to discard it.

Shock Absorber

The harness you have just purchased has a BUMPAIR type shock absorber.
This protection is intended to protect you against potential impacts. It complies with EU Regulations 2016/425 relating to personal protective equipment (PPE) and certified by expert following protocol SP-002 12/2016.

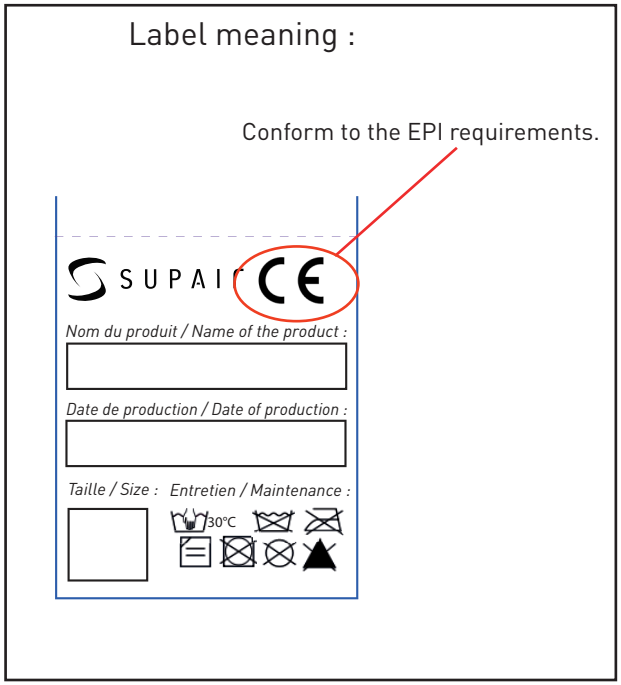
The shock absorber UE conformity of your harness is certified by the following laboratory: ALIENOR CERTIFICATION n ° 2754, Z.A. du Sanital, 21 Rue Albert Einstein, 86100 Chatellerault, FRANCE

Please note that no shock absorber can guarantee total protection against injury. The back protector does not prevent potential injuries to the spine and/or pelvis. In addition, only the parts of the body covered by the shock absorber are likely to benefit from adaquate protection against possible impacts.

Please note that the performance of the equipment can be dangerously affected by any modification made or improper use of the shock absorber, and negatively affect the proper functionality of the protector which must be whole and properly installed. You must check that all is in order prior each flight:
-The correct installation of the BUMPAIR shock absorber.
-The BUMPAIR seams and overall condition of the fabrics - look for holes, tears, snags ....

The protection can have a five (5) year lifespan under normal use conditions.
Warning! Following a major hard landing would justify the protector to be discarded.

Label meaning :



If your BUMPAIR is damaged, have it inspected and repaired at a professional qualified facility or contact us at sav@supair.com

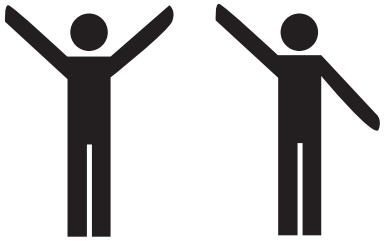
The test results and the EU declaration of conformity can be found at: www.supair.com

IN CASE OF AN INCIDENT

Call for help after an accident

Emergency call numbers	
EUROPE / INDIA	112
USA / CANADA	911
CHINA / JAPAN	119
NEPAL	101
IRAN	112
AUSTRALIA	000
NEW ZEALAND	111

Help needed?



Flashlight SOS :

SERVICE BOOK

This page will help you keep record of your BUMP STK2 scheduled maintenance.

Purchase date	
Owner's name :	
Name and stamp of the shop :	

☐ Care ☐ Resale	
Date	
Workshop's name/ Buyer's name	

☐ Care ☐ Resale	
Date	
Workshop's name/ Buyer's name	

☐ Care ☐ Resale	
Date	
Workshop's name/ Buyer's name	

☐ Care ☐ Resale	
Date	
Workshop's name/ Buyer's name	

DESIGNED
IN ANNECY

100% MADE
IN EUROPE

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