## User Manual (EN) Rescue System

## ALFAcross\*115



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Text by Josef Gasteiger, Layout /Graphik by Frank Gasteiger and Tobias Albert Version: Mai 2016 office@gleitschirm-retter.at \*\*\* www.gleitschirm-retter.at

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## **Verification of Checks and Repairs**

_							
A	LFAcross*115						
Serial number:							
First check by	/ Fluggeräte G.m.b.H / date:	Name/ Stamp					
Check (C) Repair (R)	Which repair/ Check? Check valid until?	Performed by/ date					
Check (C) Repair (R)	Which repair/ Check? Check valid until?	Performed by/ date					
Check (C) Which repair/ Check? Repair (R) Check valid until?		Performed by/ date					
Check (C) Which repair/ Check? Repair (R) Check valid until?		Performed by/ date					

#### **Foreword**

## Congratulations on buying your **ALFAcross\*115** rescue system

# Before you get to know your system please read the manual which includes important information.

This manual gives you information on the entire specific and general characteristics of the rescue **ALFAcross\*115**.

All technical data and instructions in this manual were drawn up with great care. FLUGGERÄTE G.m.b.H cannot be made responsible for any possible errors in this manual.

Should you decide to sell this rescue system at a later date, please pass on this manual to the new owner.

No guarantee of any kind can be made against accidents, injury, equipment failure, and/or death. It is assumed that the pilot is in possession of the necessary qualifications and provisions of any relevant laws are observed.

The use of this rescue system is entirely at your own risk.

Every pilot bears the responsibility of his/her own safety. The manufacturer or distributor assumes no responsibility for accidents occurring while using it.

#### It is strictly prohibited to use the ALFAcross\*115

- beyond the maximum recommended weight
- for skydiving
- with damaged canopy, lines, connection belt or seams or
- without regular check (check interval).

## **WARNING:**

# The rescue system is not suitable for speeds in excess of 32 m/s (115 km/h).

Important information in this manual is written in fat cursive writing.

Any important changes to this manual will be published in our homepage (www.gleitschirn-retter.at).

it.

Every pilot must ensure that the rescue system is properly checked at regular intervals.

### To get to know your ALFAcross\*115

Technical data					
Area (m²)	36,20				
Number of cells	20				
Weight including container (kg)	1,25				
Minimum Volume packed (cm³)	4200				
Maximum Volume packed (cm³)	4200				
Maximum payload (kg)	115				
Middle line	1				
Rate of descent max. payload (m/sec)	5,41				

The **ALFAcross\*115** is a manually deployable rescue system it is for suitable paragliding pilots in an emergency situation and is made by high quality light materials and has a quadratic canopy with one middle line which pull down apex.

Rescue systems from FLUGGERÄTE G.m.b.H are characterized by a high level of reliability and maximum material strength. Fastest inflation while maintaining moderate sink rates are features of these systems.

The material is air permeable, strong nylon. There are bands sewn into the main seams to strengthen the canopy. The base and side edges are reinforced with bands. The apex is pulled .The lines are grouped into a strap. This strap generates the connection between rescue system and harness.

The rescue system is sewn to NATO standards which means that all rescue systems are sewn by professionals and delivered only after inspection and approvals..

The specially designed inner container prevents the lines cannot get caught up in the cap and the opening speed is accelerated with this inner container.

When using a different inner container it is important to ensure that the rescue system can be thrown without probleme.

## What to do when it happens?

If you find yourself in an uncontrollable situation in the air, pull hard on the deployment handle. This will open the outer reserve container and release the reserve parachute. Then throw the reserve package forcefully away from you. As the suspension lines become tight, the container will fall away and the reserve will open.

In an emergency situation, the handle of the rescue system is given a sharp pull. The special thread which holds the closing splint breaks.

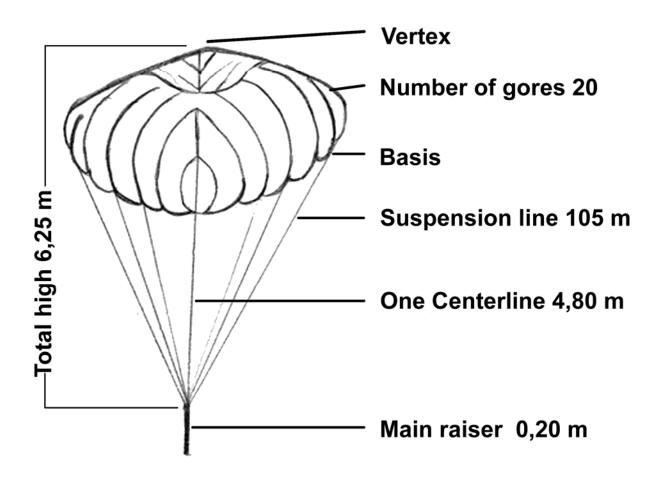
If your glider is rotating it pays to throw the reserve against the rotation as this will speed up the inflating process. If you have had a collision and find yourself entangled with someone else's glider try to make sure you don't throw the canopy into the entanglement, as this will delay the opening.

When you are flying recurrently grab the position of the handle so you can find it in an emergency!!

If you have enough height, first try to resolve the problem and stabilize the rescue as far as possible (danger of screwing of the bailout).

If you have not enough height don't hesitate for pulling the rescue.

Do not forget to unhand the rescue handle!



## **Packing Instructions**

#### **Packing preparations**

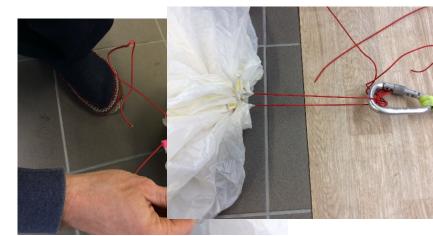
Before you pack the rescue system it is important that the canopy is spread out on the ground for about six hours.

If possible, it would be even better to air it one night long by hanging it up by the top lines. Before the rescue system gets packed, a release control must be carried out. The release force should be between 50 and 80 N.

#### Pulling the packing line trough the fixing loops

To help you pack the rescue system, use a short piece of old paraglider line and thread it through all the apex fixing loops. The fixing loops are sewn on the canopy.





Attach the line to a stable fixed point. Sort out the suspension lines.

Take line 1 and the last one (20) stretch the lines so they are running parallel to the main strap and make sure that the middle lines are in the middle and the other lines to the side.

There should not be any tangles or knots in the lines. All lines must have a straight course and may not have any twists.

#### Sorting the panels

Take the lines in your hand as shown on and fold over each panel from the left side side like turning the pages in a book and top of the opening outward..

Start with panel 1, the last one is panel 20.



the photo onto right pull the

Now you can see the opening of panel 1. opening like a triangle.

Sort the next panels to the left side until the opening of panel 16. Fold it like panel Do the same up to panel 11.



Fold the

you see 1.

Now fold all panels from the right side to

the left.

Put the first five panels to the right side until you can see the opening of panel 6. Fold the opening like a triangle.

Afterwards fold the following panels to on the right side. When you see panel 11 last of 4 triangles.

Afterwards check both sides.

On each side there must be 10 panels.



panel 10 fold the

Check the lines. You can devide the lines in to three parts on the left, one to the right and the middle line.

All lines must have a straight course and may not have any twists.

## Remove the line from the fixing loops!

#### Folding the canopy into thirds

The left third is folded onto the middle and right third is folded under the middle. Do the top of the canopy.

Fold the protruded triangles and pay to the size of the container!



then the same on

attention

#### S-folding canopy to fit into inner container

Fold the canopy in "S" folds from the top right down to the base, so that it fits into the inner container.









# Now is the last time to remove the helping line from the fixing loops!

Now put the canopy into the inner container. Close both sides of the inner container with the white rubber band and pull the suspension lines through the rubber band for closing.

Fold the suspension lines using two fingers in "S" bundles and fix with special rubber bands.

These are special rubber bands which you can buy from the manufacturer and you must novate it after each time you repack.

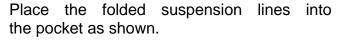
Use the last 50 cm of the suspension lines for the final closing of the inner container.













With the rest of the suspension lines you finalize the closing of the inner container by pulling the suspension lines through the black rubber loop. Now the packing is finished.





Make a note of the date of packing in the pack control booklet.

#### Installing your rescue handle

Most harnesses have a handle for the harness containers. This handle must be connected to the inner container.

The inner container of ALFAcross\*115 rescue systems has two loops, in which the handle of the harness can be attached (center, side).

Handles for front and back containers are generally suspended in the central loop, container on side or under the seat, the side strap used.

Note the instructions for the rescue unit in the operating instructions of your harness.

If there is no handle of the harness or it does not fit with your inner container, please ask the dealer of your harness or your paragliding school.

The handle must be firmly connected to the loop on the inner container (opening strength < 70 N).

#### Attachment of the connection belt with the harness

For connecting the two belts use a fixable 24 kN- snap hook with a diameter of 8 mm. It is very important that the snap hook cannot twist to prevent rotation stress of the snap hook.

Therefore use cable fixer, adhesive tape or strong rubber bands and pull it **above and below the snap hook** around the belts.

Therefore use cable fixer, adhesive tape or strong rubber bands and pull it **above and below the knot** around the belts.

Pay attention to the symmetry of both lines. Neither side of the loop should be longer than the other.

A higher breaking force could otherwise endanger the release of the rescue system!

#### Compatibility- check

A control of every new combination of rescue system and harness/outer container has to be carried out by either the producer of the harness or the rescue system or an authorized person (dealer or flight instructor). The activation of the rescue system in flight position has to be correct and in conformity to the construction guidelines.

The check has to be recorded in the documentation of the rescue system. The throwing movement should be practiced every time the rescue system is repacked.

#### IMPORTANT POINTS TO LOOK OUT FOR:

- Check (regularly)
  - connection of the rescue system to your harness
  - connection of the harness and deployment handle

#### helping line from the fixing loops is removed (after each packing)

- **○** Check compatibility of rescue system and harness
- ➡ Before each start with your paraglider you have to check the container is closed!!

## Care, maintenance and repair

#### **Care Instructions**

- Please do not store your rescue system in the vicinity of acids, grease, oils or paint. To
  ensure safe operation, the system needs proper maintenance and care.
- Do not store your rescue system in extreme temperatures or humidity (more than 30° C 0r 55-65% humidity).
- A humid or wet canopy needs repacking.
- Exposure to UV-rays causes deterioration of the fabric.
- Please only use clean and fresh water to clean your rescue system or container.
- Wet cloth stored in warm conditions will begin to mould and significantly lose structural strength. Rescue systems in this condition must be brought to the manufacturer to be checked.

It may take several days to dry out the rescue completely especially the lines of the rescue system, which take longer than the fabric.

Do not fold and store your rescue system prematurely if it not completely dry. Mildew may damage your harness and your rescue system.

#### Repairs

The seal of approval can only be preserved if original parts are used. If you discover any damaged parts to the rescue system which might impede deployment, please end it back to the manufacturer to get repaired.

Repairs can only be carried out by the manufacturer or from the manufacturer authorized persons.

#### Use limitations, packing- and check intervals

**Packing interval** 

6 to12 month; the rescue system also must be aired recurrent

**Check interval** 

2 years; if the rescue system was opened after a flight accident, the rescue system must

be checked.

Without regular certified inspections, your rescue will loose its pattern test result and quarantee.

**Use limitation** 

15 years; Our rescue system ALFAcross\*115 have a lifer span of 15 Years by

observance of the regulations for packing and checking. Certification is no longer

valid thereafter.

The certified life span can be extended by a further three years, if the rescue

system is checked by the manufacturer...

Important: Packing and checks of the rescue system must be documented otherwise

guarantee is cancelled.

#### Terms of the guarantee

Fluggeräte G.m.b.H guarantees the proper processing, an operation within the allowable limits of proper operation and the fulfillment of the eligibility criteria of rescue.

Guarantee is only valid for FLUGGERÄTE G.m.b.H products with LTF/ EN certification <sup>1</sup>.

#### What is not covered by the rescue guarantee?

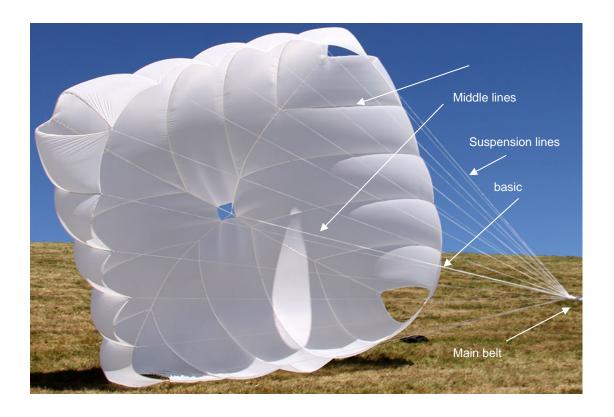
- which have been changed by yourself,
- that were not purchased from an authorized dealer / flight school,
- where the required inspection intervals were not met and the verification of the rescue system was not conducted by a Fluggeräte G.m.b.H authorized operation / person

#### Damage

- which has occurred due to improper treatment (i.e. storage in humidity, heat or direct sunlight)
- caused by solvents, salt water, insects, sun, sand or humidity
- caused by force majeure.

In case of a concluded claim the period of guarantee carries on. The period of guarantee and the connected claim are not prolongated and are only valid until the original date of expiry

## **Description of the rescue system**





## **Maintaince and Pack-Interval Overview**

DATE	WORK	USED OPEN	RESULTS	Signation by

It is compelling advised to check and repack the rescue ALFAcross\*115 every 6 months. In the case of ignoring this, there might be probleme with opening time of the rescue.