

## USERS GUIDE

for the

PERSONNEL TROOP PARACHUTE

35T-ST and 35T-NST with 35T-R Reserve

P/N 903070 - 16/ - 52 and 904452-11

Manufacturer:

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## 1 Table of content

1	Table of content .....	2
2	General Information .....	2
3	Components.....	3
4	Maintenance .....	6
	4.1 Cleaning .....	6
	4.2 Special handling of parachute immersed in water .....	6
5	Inspection.....	7
6	Preparing to gear up the parachute system.....	8
7	Special features 35T parachute system.....	15
8	Activating the reserve parachute.....	16

## 2 General Information

This users guide describes the handling instruction for the personnel back parachute 35T-ST and 35T-NST with 35T-R, manufactured by Brüggemann GmbH + CO.KG, Am Kalkheck 2, 58313 Herdecke, Germany

### 3 Components

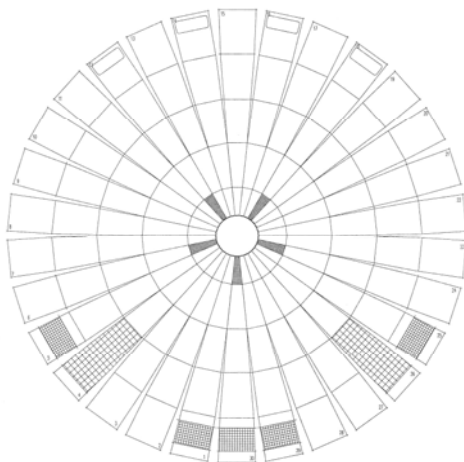
The parachute consists of the following main assemblies

- |                          |                    |                |
|--------------------------|--------------------|----------------|
| <input type="checkbox"/> | Main canopy 35T-ST | P/N 903040-403 |
| <input type="checkbox"/> | Riser              | P/N 900854-201 |
| <input type="checkbox"/> | Harness            | P/N 900863-306 |
| <input type="checkbox"/> | Deployment bag     | P/N 900430-401 |
| <input type="checkbox"/> | Back pack          | P/N 900868-402 |

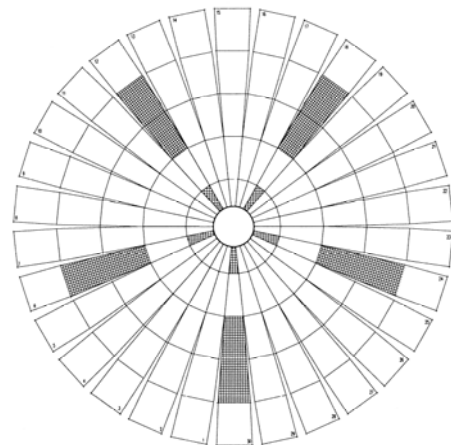
#### 3.1 Main Canopy      35T-ST      P/N 903040-403

                                 35T-NST      P/N 903040-511

- |                          |                          |            |
|--------------------------|--------------------------|------------|
| <input type="checkbox"/> | Inflated canopy diameter | 10,7 m     |
| <input type="checkbox"/> | Geometric form           | Triconical |
| <input type="checkbox"/> | Apex diameter            | 1,05 m     |
| <input type="checkbox"/> | Number of lines          | 30         |
| <input type="checkbox"/> | Length of lines          | 8,0 m      |



**35T-ST**

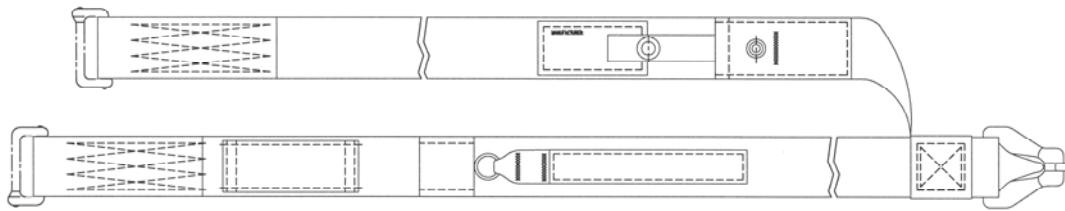


**35T-NST**

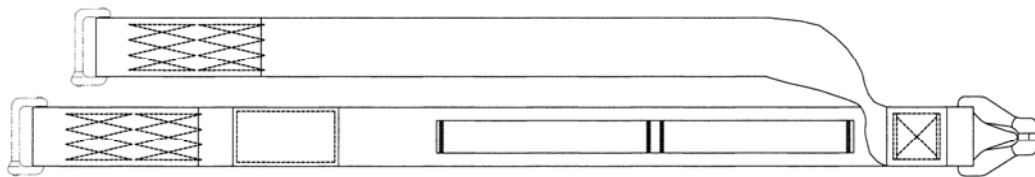
**3.2 Riser                      35T-ST              P/N 900854-201**

**Riser                          35T-NST            P/N 900854-203**

Each riser has a length of 760 mm and is made of MIL-W-4088, XIII nylon webbing with the male fitting of the canopy release permanently attached to one web end. The two other ends are looped for attachment of the suspension line connector links.



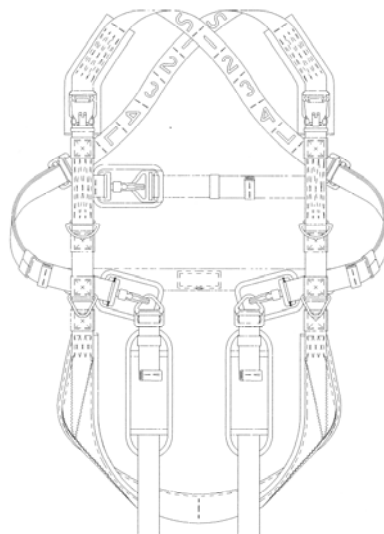
**Riser 35T-ST**



**Riser 35T-NST**

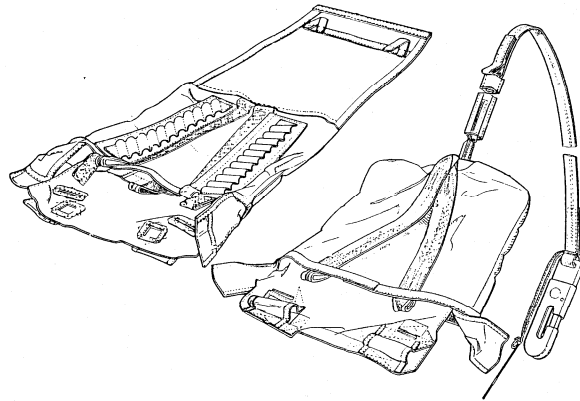
**3.3 Harness                      P/N 900863-306**

Adjustable 3 point harness with quick ejectors, padded shoulder and padded leg straps. The harness assembly is made of MIL-W-4088, XIII nylon webbing.



### 3.4 Deployment Bag P/N 900430-401

The deployment bag is made from MIL-C-10296 cotton sateen cloth and features flexible stow loops.

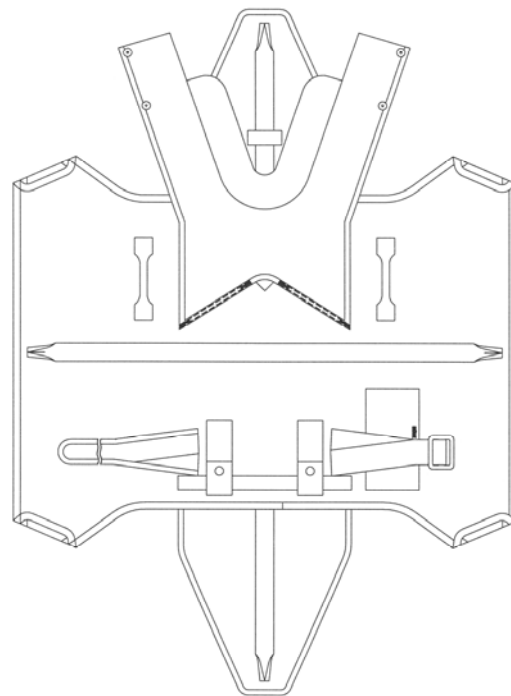


Deployment bag with snap hook PS 70120

### 3.5 Bag Pack

P/N 900868-402

The back pack tray is made from MIL-C-7219, III nylon cloth.



## 4 Maintenance

### 4.1 Cleaning

Cleaning must be performed manually by shaking, gently brushing or rubbing the soiled area with a soft-bristled brush or clean cloth and must be limited to the soiled area. Do not wring out the cleaned areas

#### 4.1.1 Drying

Suspend a wet or damp parachute in well-ventilated room away from direct sunlight. Do not dry assembly in direct sunlight or by spreading it on the ground. Drying time may be decreased by the use of fans or by suspending the assembly in a heated drying room. Do not use a room where the temperature exceeds 50°C, nor dry the assembly for more than 3 consecutive hours at this temperature.

### 4.2 Special handling of parachute immersed in water

#### 4.2.1 Salt water

Cotton components that have been immersed in salt water for any length of time and nylon components that have been immersed in salt water for a period of 24 hours or more, must be condemned. Nylon components that have been immersed in salt water less than 24 hours must be given special handling (A.-C. below) within 48 hours after recovery or be condemned. The following instructions cover special handling of the canopy assembly but may be adapted for other components of the parachute assembly.

- A. Immediately after recovery, hang parachute by the bridle loop in the shade and allow it to drain for at least 5 minutes. Do not wring out canopy or lines.
- B. Rinse parachute as soon as possible, but within 48 hours after recovery, as follows:
  - (1) Place the parachute in a large container with 20 or more gallons of fresh clean water and agitate by hand for 5 minutes. Remove parachute from water, hang by bridle loop and drain for 5 minutes. Do not wring out canopy or lines.
  - (2) Repeat rinsing procedure twice, using fresh clear water for each rinse. Allow parachute to drain and dry thoroughly after third rinse. Do not dry parachute in sunlight.
- C. Inspect the parachute (lines, webbing, fabrics and hardware) thoroughly after drying. Corroded hardware must be cleaned with crocus cloth or be replaced and corrosion stained fabrics, webbing and lines must be repaired as authorized by the maintenance allocation chart.

Enter record of immersion, rinsing and repairs in parachute log record.

#### 4.2.2 Fresh water

Immersion of cotton or nylon parachute components in fresh water lakes or rivers does not require rinsing unless the water is dirty, oily or otherwise contaminated. Minor discoloration due to immersion in uncontaminated water should be allowed to remain. Small stains, such as those caused by oil, grease, blood or hydraulic fluid, should be removed as prescribed in paragraph 4.1.1. It is not necessary to remove stains completely; slight discoloration is preferable to a too vigorous washing procedure.

#### 4.2.3 Storage

When available, a warehouse should be used for storage of parachute assemblies. The assemblies must be stored in a dry place, on wood racks that will provide airspace between floor and parachutes, so that dampness will be minimized. Except when required for anticipated use, parachutes must be stored unpacked. Never store parachutes on a concrete floor.

The storage rooms must be closed, the environmental temperature must be between +15°C + 25°C and relative humidity of maximum 60%. It must be protected from direct sun light. There must be no toxic, corrosive, humid, greasy, etc. substances in the parachute warehouse.

#### 4.2.4 Preventive Maintenance

Preventive maintenance to be performed on the troop-back personnel parachute includes before-use services such as prepack inspection, inspection and repack of a parachute that has been packed for 90 days and a routine inspection before the parachute is issued for use. Preventive maintenance also includes after-use service such as shakeout.

### 5 Inspection

#### 5.1 General

The parachute must be given a detailed inspection before and after repairs are made and before the actual packing is begun. In addition, visible components of the packed parachute must be given a routine inspection before the parachute is issued for use. If, during inspection by the packer, a component is found to be defective, the parachute must be rigger-rolled and processed for repair. The inspection at the repair activity is performed on a illuminated

inspection table to determine the most detail requiring repair. The necessity for care and diligence in inspecting the parachute assembly can not be overemphasized. Failure to detect areas of damage may cause the parachute to malfunction.

## 5.2 Maintenance Indicator Checklist

This list indicates possible areas of damage that would make the parachute unserviceable.

### 5.2.1 Canopy

Dampness, debris, large rips or holes, loose or broken stitching, tears, frays, detrimental spots, snags.

### 5.2.2 Lines

Burns, cuts, breaks.

### 5.2.3 Harness and Pack/Risers

Dampness, debris, holes, tears, loose or broken stitching, frays, detrimental spots.

### 5.2.4 Hardware

Corrosion, malfunction, missing damaged surface.

## 6 Preparing to gear up the parachute system

### 6.1 Placing the parachute

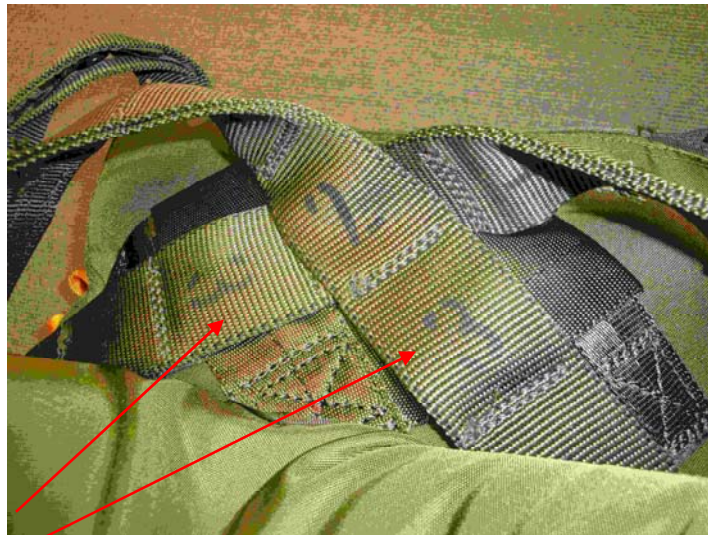




### 6.1.1 Adjusting the harness size



Open the pull the dots on the left and right side of the protecting collar



Open the two pull the dots, located underneath the webbing and adjust the harness size. Make sure that the harness fits tight after the adjustment.

**NOTE:**

**!! Make sure to close the pull the dots correctly after adjusting the harness !!**

### 6.1.2 Closing the chest and leg straps



After gear on close the left and right leg straps first, stow the excess leg strap. Then close your chest strap, stow the excess chest strap.

### 6.1.3 Adjust and tighten up the left and right diagonal bag straps



Tighten the left and right diagonal bag straps until the harness fits firm, stow the excess.

#### 6.1.4 Attaching the reserve parachute 35T-R, P/N 904452-11



Route the belly strap through the lower left and right openings on the reserve pack tray.



Hook the reserve pack tray snaps onto the left and right d-ring on the parachute harness. Secure the belly strap with to the buckle strap on the left side of the bag pack.



The reserve parachute is now correctly attached to the d-rings of the parachute harness, the belly strap is secured with the buckle strap.

Route the static line through the rubber bands of the load limiter, than to the left side of the back pack and start stowing the static line from left to right.



**The parachute system is ready for use.**

## 7. Special features 35T Parachute System



Protection collar

Canopy Release Covers

Higher Reserve Attachment Points

Additional Leg Strap Padding



Cypres Ready Setup

Center Pull Rip Cord with DAD System

## 8. Activating the reserve parachute



Reserve parachute with center rip cord handle

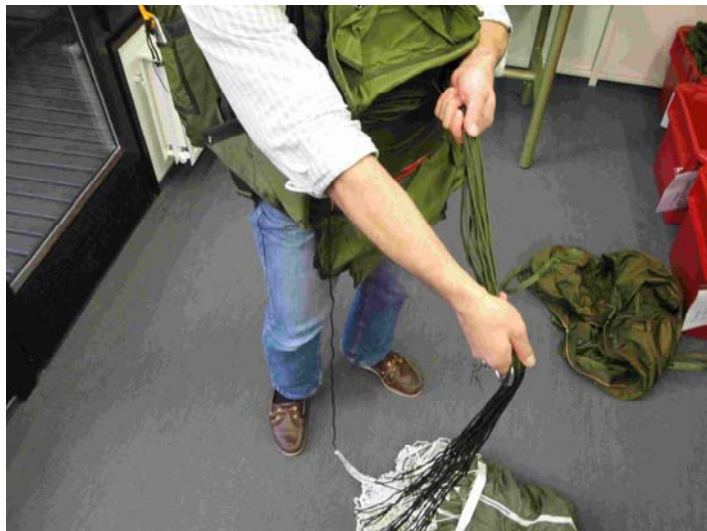


Place one hand as shown on the chest strap and grip the reserve rip cord handle with the other hand.





Activating the reserve by pulling the reserve rip cord handle



Supporting the line extraction by un-stowing the suspension lines by low speed reserve deployment

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