

rescue parachute owner's manual

sh-1



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ATTENTION!
Read this manual before use!

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Owner's Manual

Rescue Parachute SH-1

1. Purpose

Our rescue parachute is dedicated to solo flying pilots. In case of serious paraglider malfunction rendering further flight impossible, our system reduces the sink rate and allows for safe landing.

The system comes with a bag to be packed into harness-integrated container. Your harness should have its own release handle and V- or H-shaped risers, leading from the shoulder straps to the container. If any of these elements are missing, call your harness dealer and/or manufacturer, since length and shape of the parts can vary with the harness model and must exactly fit the one you are using.

At Dudek Paragliding you can get also externally mounted container with release handle and V-risers. You can attach it to the front or side of the harness, depending on your preferences and harness characteristics.

SH-1 is activated manually by releasing the handle, pulling the bag out of the container and throwing it out in the direction of the airflow (together with the handle).

2. Technical details

TYPE	1
Canopy system	single
Number of pieces / lines	20
Surface flat [m ²]	36,33
Surface projected [m ²]	23,70
Max opening speed tested [km/h]	120
Opening time [s]	up to 3
Sink rate [m/s]	up to 5
Maximum load	120
Weight (including connectors) [kg]	2,4

3. Included documentation:

owner's manual

airworthiness certificate

4. Inspections and repacking (pro pack)

rescue Parachute requires a periodical inspection every 12 months by the producer or producer authorised paragliding organisation. The canopy should be ventilated and repacked every 6 months, also by the producer or authorised paragliding organisation.

5. Repairs

Any repairs can be carried out only by the producer.

6. Storage and maintenance

The rescue system should be stored in a dry place of room temperature, away from any chemicals.

When the parachute gets wet, it should be dried in a room temperature. It can be dried outdoors, but not exposed to direct sun heat. In case of contact with salty water, first rinse it thoroughly with sweet water.

If you need to remove any dirt, clean it with a moistened rag.

During winter operation be alert to keep snow away from the SH's container.

7. The structure of the rescue system

The rescue system SH-1 consists of following elements:

- canopy (panels, wedges, canopy brink, vent opening, vent brink)
- suspension lines
- central lines
- bridle
- bag (holds the system folded)

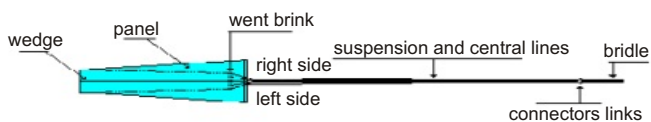
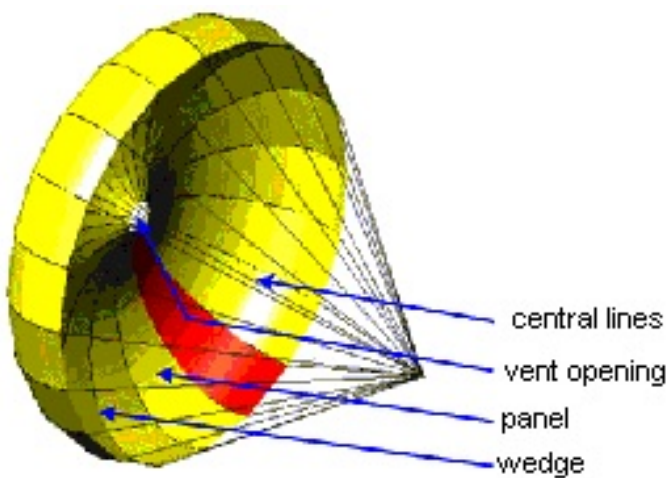


Fig. 1



8. Packing the system

Before you start packing the rescue system, it should be ventilated (that is - spread the canopy and straighten lines for 24 hours, as shown on Fig. 1 or hang it in a dry place of room temperature), and checked panel by panel for any damages.

It is strongly recommended to perform all steps with assistance of another person.

Photo 1

Smooth and clean surface with 7x1,5 m dimensions (e.g. a table) is required for packing the system.



Photo 1



Photo 2

Photo 2

Lead an assistance strap through loops in canopy top, fix it to the edge of a table and spread the rescue system flat on the surface. Find central panel, marked by data sheet.



Photo 3-6

Lay the canopy on the left side and make sure that data sheet panel is under the canopy.

One person should stand near the canopy brink and the other near its top. Take the first suspension line together with two central lines and start flaking each panel out, adding its suspension lines to the bundle.

The panels should be pulled out completely and accurately, both at the brink and top.

Stop on reaching the tenth panel.



Put the other half of the canopy over and repeat the procedure starting from central panel (the one with data sheet).

Check if there are any overlooked panels and if the number of the panels is the same on the right and left side.

Figure 2 shows correct organisation of the canopy brink and top (the number of panels in the picture was reduced to make it clear).

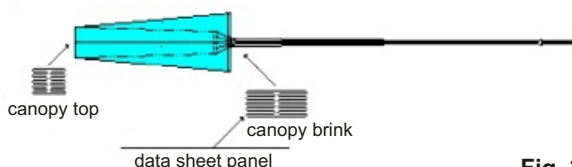


Fig. 2

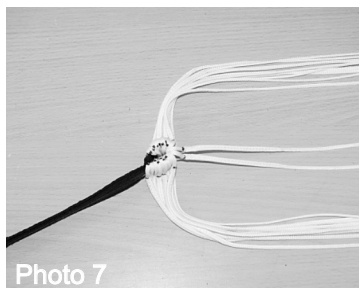


Photo 7



Photo 8

Photo 7

Check if the lines are separated and if the central lines (mounted at the top of connector link) do not cross with suspension lines all the way till the vent.

Photo 8

Stretch the lines, holding them together at the canopy brink.



Photo 9



Photo 10

Photo 9, 10

Fold both sides of the canopy in half.

Photo 11

Put the right (folded) half put under the left one, so that kind of W-shape should form.

Remember to keep the canopy taut.



Fot. 11

Figure 3 shows the correct folding.

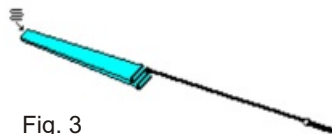


Fig. 3



Photo 12

Canopy brink before further steps.

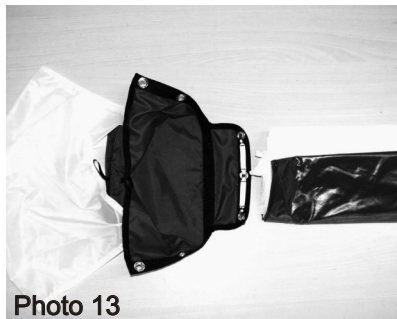


Photo 13

Photo 13

Place the bag near the top of the canopy.



Photo 14

Photo 14

Slip the canopy in the bag, bending it up some 10 cm from its top.



Photo 15

Photo 15

Bend the canopy up and down to form a concertina shape. Pull the bag over a packet.



Photo 16



Photo 17

Photo 16

Close the bag with middle rubber loop using the assistance stick.
Fold the lines in double eights and put protective rubbers over the ends.

Photo 17

Correct appearance of the double eights before placing them in the bag.



Photo 18



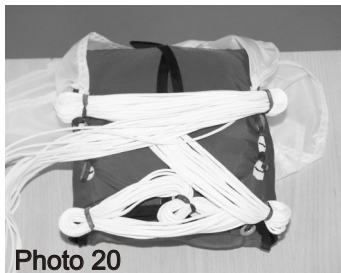
Photo 19

Photo 18

Take out the assistance stick and put the two double eights into bag.
Close the bag with middle rubber loop, interlacing lines through it.

Photo 19

Lead the lines through remaining rubber loops, completely closing the bag.

**Photo 20****Photo 20**

Start fixing the lines in the bag rubbers in Z-shapes, beginning from the one nearest to pilot chute.

**Photo 21****Photo 21**

Detach any spare rubbers from the bag.

After fixing the lines SH-1 is ready to be put into a harness-integrated or external container.

9. Packing SH-1 in a external container

**Photo 22****Photo 23****Photo 22**

Lead the little loop of the bag through the metal ring in pilot chute.
Fasten the release handle by putting the handle strip through the loop.

Photo 23

Place the bag on the container.

The bridle can point up or down, depending on the way you are going to attach the container to the harness.



Photo 24



Photo 25

Photo 24

Close the container side lids using the assistance lines and pins.

Photo 25

Close the last lid, replacing the assistance pins with those of the release handle.



Photo 26



Photo 27

Photo 26

Take out the assistance lines.

Photo 27

Secure the release handle with protective lid.



Photo 28

Photo 28

Straps and velcros fastening the container to the harness.



Photo 29

Photo 29

Connection of the bridle and harness V-shaped risers.

10. Packing SH into a harness-integrated container

Connect the bridle with harness risers.

Attach release handle to the bag.

Put the SH in harness container. Close container using the handle pin.

Make sure the pin is secured so that it will not drop out unexpectedly.

It is recommended to have the container pin sealed by authorised rigger, with a thread of max. 5 kg tenacity.

11. Everyday use inspection

Loops and pins closing the container require constant monitoring.
Before each start you should check whether:

- the pins are not loose (could result in unwanted opening)

- there is nothing that could block the pins and make release impossible.

SH must be kept clean and dry at all times.



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