



Oops Reserve Bi

certification number	55.9 m ²
maximum height w/weight	2000 g
expiry year	Exp. 2015
weight	25 kg

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OOPS Owner's Manual

Reserve Parachute

Paragliders with Personality

Bruce Goldsmith Design is a specialist manufacturer of high quality paragliding equipment. We fly, research and develop in the south of France. Gourdon produces active-air test conditions year round, giving us a significant advantage over other manufacturers.

Bruce Goldsmith has been designing paragliders and equipment since 1991, and has produced some of the world's most loved and successful wings - including two world championship winning designs. He is assisted by test pilot Ant Green, who is also our film producer. Arna Goldsmith manages Sales and Marketing and our distribution is located in Austria with Christoph Scheer at the helm who is also the financial guru.

Our mission is to build gliders with personality: exceptional wings with the refined handling and innovative qualities that Bruce Goldsmith has become renowned for. We love the feeling of being connected to the air through your wing, and our wings are designed with that in mind. Our goal is to make wings pilots love to fly.

Description

The Oops 90 / 110 / 135 / Biplace 210 is a life saving system for paragliding.

Oops 90 / 110 / 135 / Biplace 210 is a hand-thrown or manually activated emergency parachute canopy. The design, materials and technologies used in the Oops 90 / 110 / 135 / Biplace 210 make the product very reliable. All the panels are cut by a CNC cutter to ensure pre-assembly precision and accurately shaped panels. The canopy is made of cloth specifically engineered for this application. The cloth is coated with a material that prevents sticking to facilitate smooth and rapid deployment. The cloth is also engineered to minimise shape distortion. These features, as well as the distinctive canopy design and the low permeability of the cloth, result in a low sink rate.

The lines leading from the canopy are selected for their superior strength and resilience. They reduce opening shock, especially at high speeds. The Oops 90 / 110 / 135 / Biplace 210 canopies have a centreline or pull-down apex. This design feature shortens the opening time and aids in stabilisation. The canopy lines are packed in loops and each loop is secured with a rubber fitting. As the system is deployed the loops are released one by one, thereby preventing tangling and facilitating a smooth and even deployment.

The reserve is packed in an inner container linked to deployment handle. The inner container is designed to open in any direction. The safety pins at the end of the handle secure the system within the outer container or harness, and prevent accidental openings. The handle is also reinforced for an easy grip, even when wearing gloves.

THIS MANUAL REFERS TO THE FOLLOWING EMERGENCY PARACHUTES:

Oops	90	110	135	210	
Area	23.95	29.15	35.75	55.9	
Number of Panels	13	14	16	20	
Max. Take-off Weight	90	110	135	210	kg
Max. Payload *	86	106	130	-	kg
Sink Rate at Max. Payload	5.5	5.5	5.5	<5.5	m/s
Max. Speed for Opening	115	115	115	-	km/h
Weight of the Rescue	1.40	1.70	2.00	2.80	kg
Certification	EP 117.2015	EP 118.2015	EP 119.2015	EP 120.2015	

* Weight of fully equipped pilot without the paraglider

Deploying

Using the Oops 90 / 110 / 135 / Biplace 210 system

Before each flight, check all straps securing the outer container to the harness (where applicable). Ensure that the container is closed properly, and visually inspect the safety pins for damage and make sure that they are secure.

Deploying the Reserve Canopy:

1. Find the deployment handle.
2. Grasp the deployment handle. Pull it out of the outer container or harness.
3. Using the deployment handle, throw the inner container forcefully into open air (AWAY from the paraglider canopy).
4. Throwing the inner container away will separate it from the canopy.
5. The canopy - thanks to the central line - inflates quickly and easily.
6. Collapse the paraglider by pulling the „B“ risers, to stabilise the descent.

As with all paraglider reserve systems, the deployment throw must be forceful enough to separate the inner container from the canopy. The special coating and design of Oops 90 / 110 / 135 / Biplace 210 dramatically reduce failed deployments, in comparison to other reserve systems.

In case the system does not deploy immediately due to a weak throw, the pilot should grasp the parachute bridle

attached to the harness, and pull it back for another, more forceful, throw. (This scenario is extremely unlikely to occur, even when using systems inferior to Oops 90 / 110 / 135 / Biplace 210),

WARNING! The reserve is not to be used for skydiving. According to EN 12491, the reserve is "not suitable for usage at speeds above 32m/s (115km/h)".

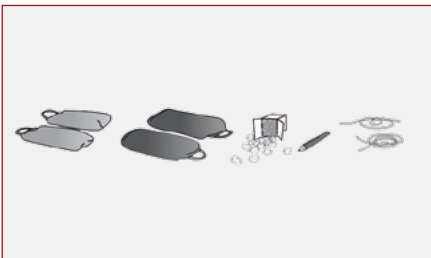
This guide conforms to requirements specified by Regulation EN 12491.

Packing

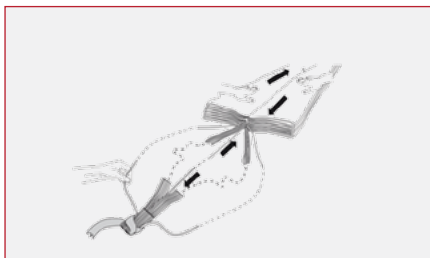
BGD emergency parachutes have been specially conceived to facilitate all stages of folding.

The following MANUAL is aimed at pilots who are competent in folding hemispherical parachutes with a pull-down apex. The manual itself cannot serve as a substitute for proper training in folding a parachute.

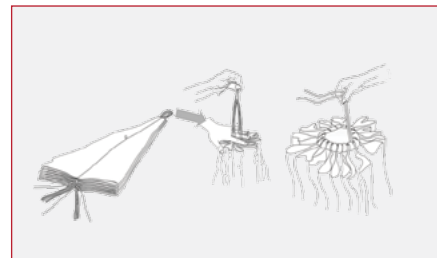
The manufacturer can ensure the safety and reliability of the system only when it has been packed by a trained professional who followed a proper packing procedure.



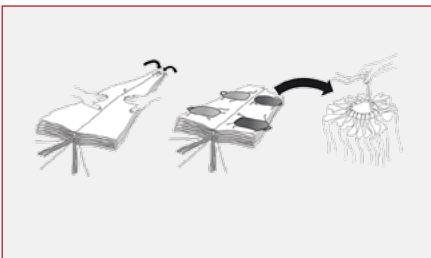
STEP 1: Establish a detailed list of all equipment required for folding.



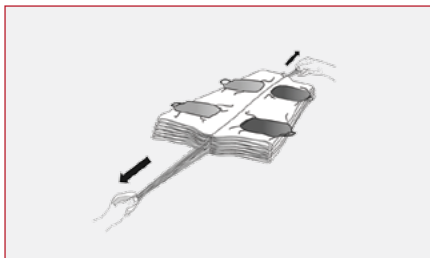
STEP 2: Make sure the parachute is completely disentangled and that both the lower line and the upper of the reef knot run freely from the risers to the canopy.



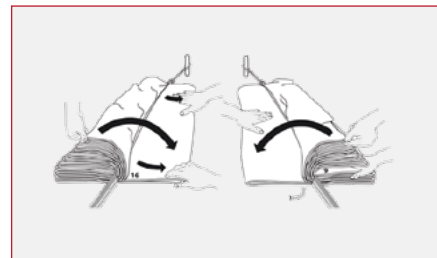
STEP 3: Even out the parachute into a neat funnel shape and hold the webbing while stretching out the central cord.



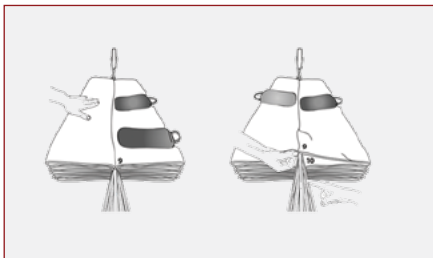
STEP 4: There are folding loops, nearly midway down the canopy where the panels were stitched. Pass a tie through these loops and stretch the parachute out.



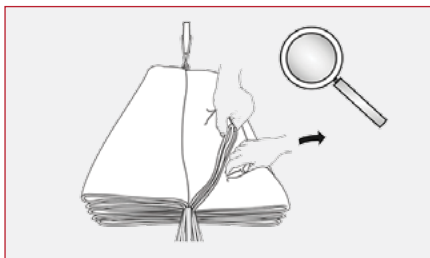
STEP 5: Separate the two outer lines (the outside lines on the riser) and lay them on the comb. Flake the canopy, starting with the lower panel on the right (panel 16), arranging it neatly.



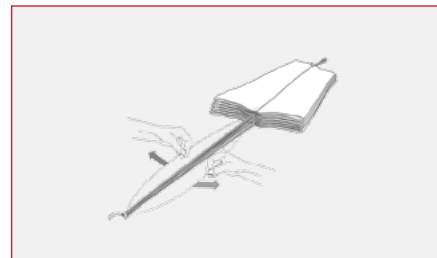
STEP 6: Successively arrange all the panels on the right, one on top of the other. Repeat this process with the panels on the left side, starting with panel 1.



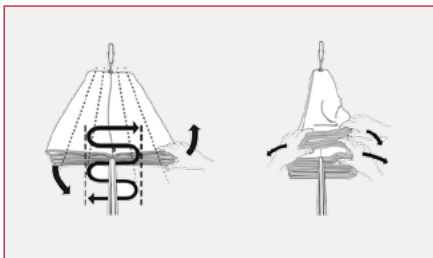
STEP 7: Check the number of panels on each side is identical, and matches the SPECIFIC model. Take the time to verify that the leading edge is perfectly aligned.



STEP 8: Lift the upper line to make sure the folds are neat along the whole length of the panels and that the wind channel is clearly right up to the apex of the canopy.



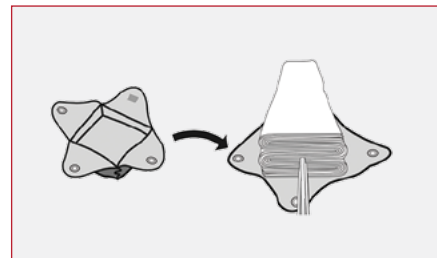
STEP 9: Check both lower and both upper lines to make sure that they run freely from the canopy to the riser(s).



STEP 10: S-fold the left and the right side of the canopy one after the other in the direction to the centre of the chute. Keep the canopy neatly folded using sandbags.



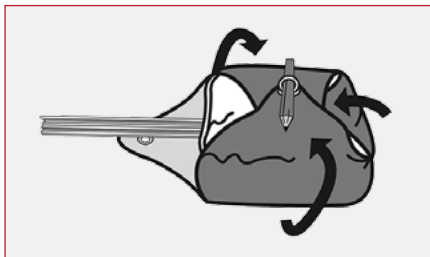
STEP 11: Squeeze the air out of the canopy then REMOVE THE TIE WHICH HOLDS THE FOLDING LOOPS TOGETHER. (See inventory list).



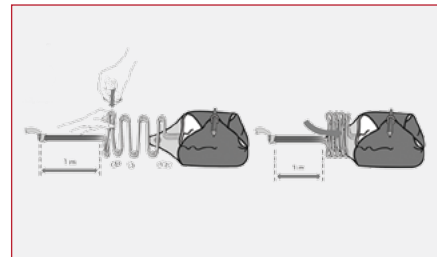
STEP 12: Take the container and place it under the folded chute, so the flap with the rubber fitting is under the canopy.



STEP 13: S-fold the canopy into the container, leaving a small space for the lines to be coiled.



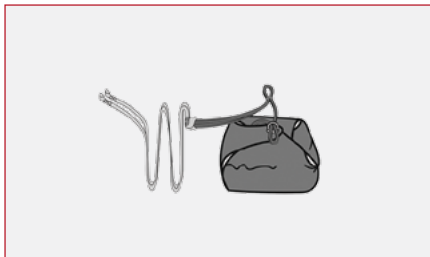
STEP 14: Close the rear flap and the two lateral flaps. .



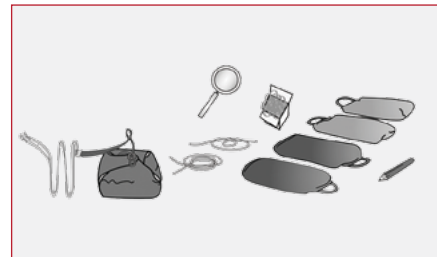
STEP 15: Coil the lines into the space previously left for them, leaving about 0.5 to 1m length of lines for the outer coils. **NEW RINGS SHOULD BE USED FOR EACH PACKING.**



STEP 16: Close the fourth flap and put a coil of lines (about 4 cm) through the loop of the flap with the rubber fitting in order to hold the container closed.



STEP 17: Coil the remaining lines on the outside of the container.



STEP 18: Make sure that all the items listed in Step 1 have not been accidentally packed with the parachute.

Mounting

How to Mount the System

The Oops 90 / 110 / 135 / Biplace 210 system can be mounted in two ways:

1. Inside the harness (according to the instructions of the harness manufacturer).
2. Outside the harness in the supplied outer container. The safety system could be used only in ways described above. Using the system in any other way is not possible.

Maintenance

Maintenance

The canopy is to be stored in a clean and dry place. Avoid extensive exposure to direct sunlight. If the canopy gets wet, immediately dry the canopy and the lines to prevent damage caused by mould. Contamination by oils or other chemicals could significantly reduce the load stability of the life saving system. A contaminated canopy must be inspected by the manufacturer. The outer container can be cleaned (WITHOUT the canopy inside!) using water and a mild detergent followed by a thorough rinse and drying. Use only clean water without soap to clean the canopy and lines.

The parachute should be checked and repacked once a year. This is to ensure it remains clean and dry and does not become compressed into a solid block.

When repacking be sure to air the parachute and above all keep out any insects or moisture.

The parachute should be replaced completely after ten years from the date of first use. This date must be written on the certification label by the dealer when the parachute is sold.

Repairs

All repairs must be carried out by the manufacturer. Any unqualified repair might lead to the system failure.

Inspection

Before packing the reserve, a thorough inspection is necessary.

1. Lines – carefully inspect all the lines on both sides to ensure that they are undamaged from the riser all the way to the canopy.
2. Cloth – ensure that it is not damaged or contaminated.
3. Outer and inner containers – ensure that the handle is properly and securely attached to the inner container and the riser is securely (tightly) attached to the harness.

If you encounter any damage or contamination that may lead to system failure, the system must be checked by the manufacturer. If you are not certain about the reliability of the system, send the system to the manufacturer for inspection.

Proper packing of the canopy is essential for the reliability and safety of the system. Therefore it is strongly recommended to have the system re-packed only by an authorised and trained specialist, or the manufacturer, every year.

The reserve system is not to be discarded but given back to the retailer or to BGD PARAGLIDERS.

Guarantee

The reserves are guaranteed for 10 years against any production fault, from the date of purchase.

THE GUARANTEE DOES NOT COVER:

Damage caused by misuse, by neglecting the regular maintenance, or in case of overloading the reserve chute.

Closing

If you are ever unsure about the information contained in the manual, contact your BGD dealer.

This document is not a contract.

BGD reserves the right to alter or modify its products without notice.

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