

Rev. 2



# DIAMOND cross

*steerable – version ST*

## PACKING INSTRUCTION

Installation, Packing, Repacking

Valid for

|                                 |             |
|---------------------------------|-------------|
| DIAMONDcross 100 ST (steerable) | EP 157.2016 |
| DIAMONDcross 125 ST (steerable) | EP 158.2016 |
| DIAMONDcross 160 ST (steerable) | EP 173.2017 |

Revision 2  
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All work must be carried out by an authorized service person, that is familiar with this work instruction.

All measures must be confirmed in the log book.

If you have any doubts, check our packing video at the website **finsterwalder-charly.de** or contact the manufacturer or an authorized service center.

### **Required material:**

Work Instruction (Installation, Packing, Repacking), always latest revision

Rope to connect lines

Rope to connect Canopy

Shackles

Packing rubbers (6x)

Packing table (recommended)

Log book

#### **1.) Connect parachute to harness**



Connect riser and red safety connection with “L” or “Left” to left hand side (flight direction) of the harness. Connect RH riser and red safety connection to right side of reserve parachute attachment point of the harness. **Put both loops on each side into the shackle!**

If your harness has an included V-line, remove it. **Do not** connect the DIAMONDcross reserve parachute onto the V-line!

**1.1**



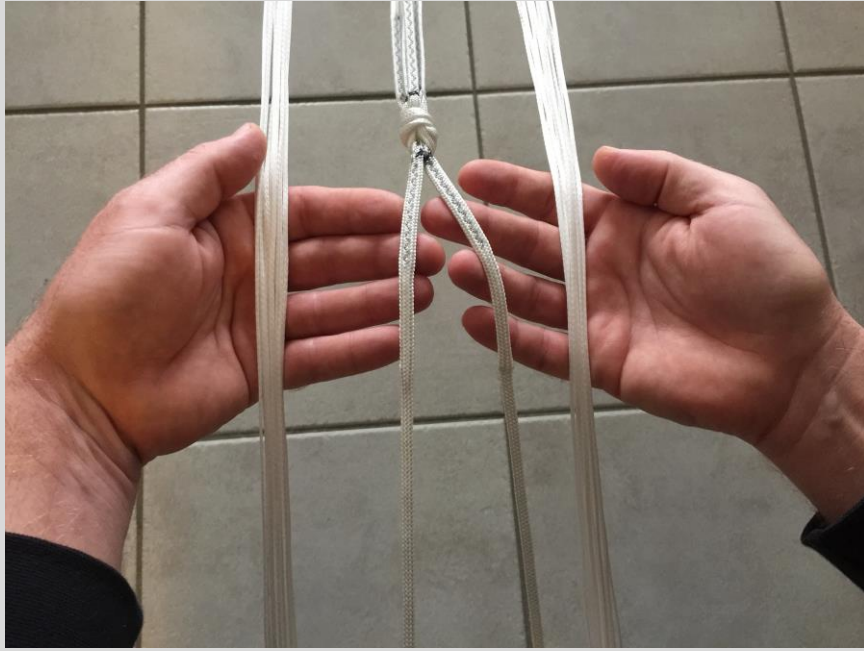
Install only approved connectors with at least 500 kg WLL (Work Limit Load). If you use Dyneema links, install them according to the instructions of the manufacturer.

**2. Check main lines**



Separate lines of both risers, begin at the side of the harness and continue to the canopy.

2.1.



Continue and separate the centerlines according to the picture.

2.2.



Continue and check that all centerlines are between the two front and two rear fork lines. **CAUTION: If the center lines are not between, there is a line over and the canopy is inside out.**



### 3. Check brake lines



Follow the brake lines from the brake line riser to the canopy and check for twists.

### 4. Presort canopy



Pull back the material of the canopy around the contour of the parachute, so that outer and center lines are pre tensioned. This makes folding of the canopy easier.

**5. Inspection center lines from top position**



Look inside the canopy from the top, if you can see the attachment points of the center lines inside, there is no line over.

**5.1.**



Presorted canopy after line check and twist check

**6. Turn harness face down**



Turn harness in clockwise direction (rotation direction if you look in direction of the canopy). Attach harness, so that it is possible to apply tension during packing

**7. Install packing rope**



For easy packing, you may install a packing rope to bundle the lines.



**8. Position canopy for packing**



Push back the half side of the canopy underneath, so that the red marking of the front tip, that shows the flight direction, is close to you.

**9. Connect packing loop**



The DIAMONDcross has only one packing loop. This is sufficient for easy packing of the canopy and saves time. The loop is aligned with the tension stripe on which the red front tip is also connected.



**10. Fold the canopy**



Start with panel 01. The Number is located at the bottom side of the canopy.

**10.1.**



Align the reinforcement straps of each panel along a centerline, and position one panel over the other. Take care not to confuse the straps with the seams of the canopy.

**10.2.**



Continue until panel 08 for the DIAMONDcross 100 and 125.

**10.3.**



Open the rear tip to align the center lines.

**10.4.**



Align the center lines in the middle of the canopy. Pull to tension the center lines and move the material of the canopy in the center up as far as you can reach inside for better folding in the next steps.

**10.5**



Continue folding until all panels are on one side.



**10.6**



Fold-back half of the panels to the other side.

**10.7**



Fold panels two times at approx. 1/3 of depth in direction of the center. You may use packing clamps or weights.



**10.8**



Continue the procedure on the other side

**10.9**



Pull up slightly the rear tip of the canopy and open it.

**10.10**



Position the rear tip on the top of the wound-up panels and open the gap. This special and easy packing method guarantees a much faster opening as the standard S-fold.

**11. Disconnect the rope from the packing loop**



Put the panels on the top of the canopy a bit together before next step.

**12. Put canopy into the container**



Wind-up approx. 10 - 15 cm of the top of the canopy and put it into the bottom of the inside container.

**12.1**



Continue with vertical S-folds until the canopy is inside the container



**13. Close the container**



Take the rubber loop and both leaves of the container and close it with the bundle of lines.

**14. Remove packing rope**



**CAUTION:** If the packing rope will not be removed, the parachute cannot open. This can cause malfunction, injuries or death!



**15. Bundle the lines**



Position the lines according the picture and bundle the lines with three loops on each side of the bundle.

**16. Split riser**



Split the riser and prepare lines and bundles to close the inside container.

**17. Close the container**



The redundant loops to close the container prevent an inadvertent or too early opening during the extraction of the container from the harness.

**18. Twist the container**



Twist the container 180° counterclockwise (direction of rotation, if you look in direction of the harness) and if the reserve parachute will be installed on the right side of the harness. Otherwise opposite.

**19. Prepare container for installation in the harness**



Move the container in the twisted position to the right side of the harness, if the container opens on the right side. Otherwise to the opposite direction.



Move harness into upright position, install handle on the inside container. Pack risers (like V-lines) and container into the harness according the instruction of the harness manufacturer.

**20. Carry out a compatibility test (k-test), according the latest valid requirements.**

**CAUTION!** We highly recommend, using the original container, which has been designed for the DIAMONDcross reserve parachute:

The container shape has been developed and tested on the G-Force Trainer ® and is also usable on harness that will be delivered including the inside container. In some cases it has been shown, that the original DIAMONDcross ® container has better extraction characteristics than the container that was delivered with the harness.

The same is valid for the opening phase of the reserve after the pilot dropped. The original DIAMONDcross ® container gives you the highest safety level of the system in different cases of emergency!!

**For further information, and how to modify your container with the handle of the harness, contact Finsterwalder GmbH or your Charly dealer.**

**21. Have fun with your DIAMONDcross ® reserve 😊.**

