



FLYSURFER

**USER
MANUAL
MOJO**

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01 RELEASE OF LIABILITY

Release of liability, claim waiver, assumption of risk

By assembling and/or using this FLYSURFER product, you agree that you have read and understood the entire FLYSURFER product manual, including all instructions and warnings contained in that user manual, prior to using the FLYSURFER product in any way. You additionally agree that you will ensure any additional or subsequent user of your FLYSURFER product will read and understand the entire FLYSURFER product user manual, including all instructions and warnings contained in that user manual, prior to allowing that person to use your FLYSURFER product.

Assumption of Risk

FLYSURFER product and any of its components involve certain risks, dangers, and hazards that can result in serious personal injury and death to both the user and to non-user third parties. In using this FLYSURFER product, you freely agree to assume and accept any and all known and unknown risks of injury and you and third parties while using this equipment. The risks inherent in this sport can be greatly reduced by abiding by the warning guidelines listed in this user manual and by using common sense.

Claim Waiver

Release and waiver of claims in consideration of the sale of the FLYSURFER product to you, you hereby agree to the fullest extent permitted by law, as follows:

To waive any and all claims, that you have or may in the future have against Skywalk GmbH & Co. KG and all related parties resulting from use of the FLYSURFER Product and any of its components. To release Skywalk GmbH & Co. KG and all related parties from any and all liability for any loss, damage, injury or expense that you or any users of your FLYSURFER product may suffer, or that your next of kin may suffer, as a result of the use of the FLYSURFER product, due to any cause whatsoever, including negligence or breach of contract on the part of Skywalk GmbH & Co. KG and all related parties in the design or manufacture of the FLYSURFER product and any of its components. In the event of your death or incapacity, all provisions contained herein shall be effective and binding upon your heirs, next of kin, executors, administrators, assigns, and representatives. Skywalk GmbH & Co. KG-related parties have not made and expressly deny any oral or written representations other than what is set forth herein and the FLYSURFER User's Manual.

If you have any questions (repair, replacement parts installation, tuning, etc.) the dealers you trust get faster help and correspondingly cheaper support (e.g. by saving shipping costs).

You can find all dealers in your area via our partner map:

<https://flysurfer.com/fs-partner/>

If you need further help, you can reach us at headquarters by phone or email.

E-Mail: support@flysurfer.com

Phone: +49 (0) 8641 6948 0

02 SAFETY NOTES

The detailed **online user manual must be read completely** before using the wing and must be strictly followed. **The following safety instructions and dangers do not claim to be complete.**

01. Windsurfing is a **potentially dangerous sport** that involves basic risks for the athlete and those in the vicinity. Improper use of this product **can lead to serious injuries or even death** for the user and third parties. Every user should have completed a **qualified briefing** on this product at a FLYSURFER kite school or a FLYSURFER dealer.
02. The user bears **sole responsibility** for himself and others when using this product. He must check all parts for condition and function before each use.
03. This product may only be equipped with **original spare parts** and may not be modified.
04. This product is designed for people weighing 50 to 95 kilograms. Outside of these limits, optimal functioning cannot be guaranteed.
05. Never practice the sport in unsuitable conditions such as storm fronts, thunderstorms, or offshore wind. Check the weather and wind carefully and choose the right wing size.
06. Check the area carefully for shallows, obstacles, currents, and prohibitions as well as rescue vehicles access. Always ask people who are knowledgeable about the area.
07. Always keep a safe distance from people and obstacles. Riding near power lines, busy roads, airports, abysses, etc. is extremely dangerous.
08. Make sure to be supervised to expect help if necessary. Never stray further from the shore than you can swim if necessary.
09. Improper use increases the risk of injury to you and bystanders. Body parts that get caught around the wing leash can cause serious cuts or burns.

02.01 Do not fly with a wing

A wing is not designed, tested, or licensed as an aircraft or flying device. The use of a wing as a flying device is illegal and not covered by insurance. **Flying with this product can lead to death!**

02.02 Protective measures

01. It is strongly recommended to wear a **helmet** to protect yourself from your board in case of a fall or any other unexpected situations.
02. A **life vest** can help with the water start. It might also be welcomed if you ever must swim back to the shore.
03. Choose a **board with enough volume** to float whilst standing up.
04. Choose a full-length **wetsuit** (water T° <19°C) or a shorty (water T° >19°C) depending on the water temperature. Be aware that you will use more energy when you are cold.

05. We recommend using a **board leash** to the ankle.

06. To enable riding with a **harness**, a rope can be tied to the attachment points between the handles.

Warning: The leash can wind around limbs! Any inseparable connection to the wing or the board can be life-threatening and lead to serious injury or death!

03 OVERVIEW OF THE WING



03.01 Description & rider requirements

The MOJO gives you a safe access into the world of wind-powered sports. The versatile wing requires previous knowledge of wind and weather, as well as an average level of physical fitness. The MOJO is designed for quick learning success, a durable sports equipment for fun on land, water and snow.

03.02 Features

1 Extra Handles

The special grip position has been developed for low-effort driving in strong winds. Gripping the Extra Handles reduces the pressure on the arms and the wing can be moved more easily overhead. In addition, we recommend using the handles for jibes and turns.

2 Free Flow Valve

Adapted SUP valve for quick air supply and air discharge. Protects the bladder with a special, flexible base plate. To ensure maximum rigidity, the Free Flow Valve is attached to the front tube and the center strut.

3 Harness Leash Attachment Points

There are attachment points on the strut to attach the connection to the trapezoid. A rope can be attached to the harness hook to drive the wing with less effort. Using a harness is recommended for advanced riders, and only in shallow water.

4 Reinforced Wingtips

The MOJO is an all-terrain product and the wingtips have been specially reinforced against abrasion. This feature increases durability and delays damage that can occur on asphalt or ice, for example.

5 Wrist/Waist Leash Attachment Point

Connection point in the middle of the leading edge. Stabilizes the wing after letting go, can be used to fix it to the ground.

6 Viewing Windows

The UV-resistant transparent windows give you an overview of the surroundings at all times. We recommend avoiding kinking the window when packing.

7 Non-Slip Handles

Non-slip segmentation, oval cut and handles to keep the best control of the wing.

8 Profile Support

The fabric wall between the strut and the upper sail regulates the tension in the sail. The power is not lost when pumping and is converted into propulsion. The profile support also serves as a tail unit for self-stabilization in the hover state.

+ Self-stabilizing Drift

The V-shape of the MOJO supports its flight stability, the roll axis regulates itself. Wave riding becomes a real pleasure.

+ Superb Wind Range

The sail tension gives the MOJO its functional profile. The wing's power is accessible and can be easily controlled in stronger wind. The handling is exceptionally good not only in the sweet spot but also when pushing the limits.

+ Balanced Center of Gravity

The basic shape of the MOJO creates the center of lift further forward and only moves minimally in comparison to other products. The pressure / force distribution is always homogeneous, even if the handle position or the angle of attack change significantly. The constant propulsion is generated by the wing and does not have to be generated by the hydrofoil. The wing powers/depowers very efficiently and runs effortlessly upwind.

+ Rigid Construction

The stiffness of a wing is crucial for its performance. The MOJO is equipped with two separate free flow valves on the strut and leading edge to keep the perfect pressure in the bladder. The diameters are selected so that the basic shape and profile are prevented from buckling and maximum performance can be called up at any time.

04 HANDLING



The wing has not been developed for use below -5 °C or 23 °F.



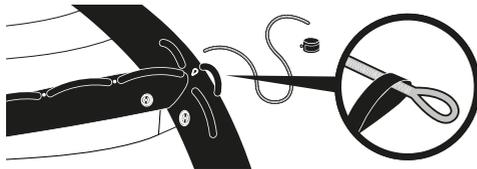
Always secure the wing! A wing that flies away can pose a great danger to anyone downwind.

04.01 Attaching the arm leash

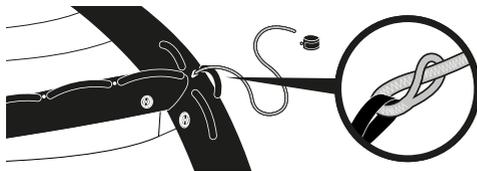
- 1 Disconnect the arm cuff from the leash.



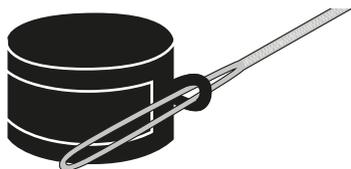
- 2 The connection point in the form of a black loop is located in the middle of the leading edge. Thread the leash with the thin end through the black loop.



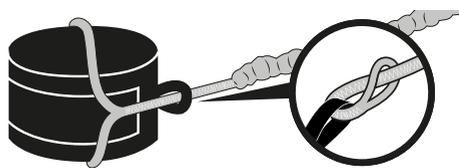
- 3 Thread the long end of the leash through the shorter end of the leash. Pull the leash tight.



- 4 Thread the long end of the leash through the black attachment point on the arm cuff.

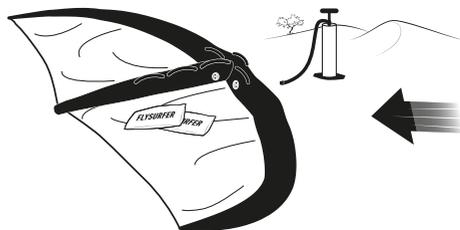


- 5 Put the loop of the leash over the arm cuff. Pull the leash tight.



04.02 Inflating the wing

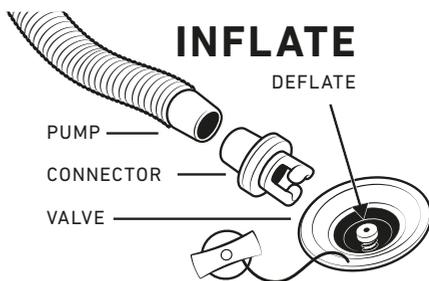
- 1 Spread the wing out on a surface without any hard or sharp objects. Place the wing with the leading edge in the wind. Weigh down the wing next to the strut with a suitable object (sand, board, etc.).



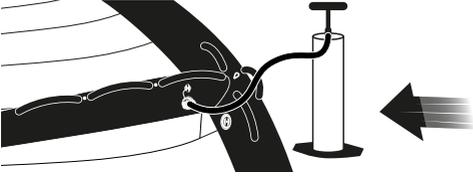
- 2 Connect the pump to the attachment point in the middle of the leading edge.



- 3 Before inflating, check that the free flow valve is closed. If not, press the pin - it should be visible. Insert the pump tubing with the appropriate adapter into the valve with a quarter turn.



4 The wing has two free flow valves. Inflate the wing until the strut and leading edge are full. Note the PSI guidelines next to the valve! Close the valve caps before going on the water.

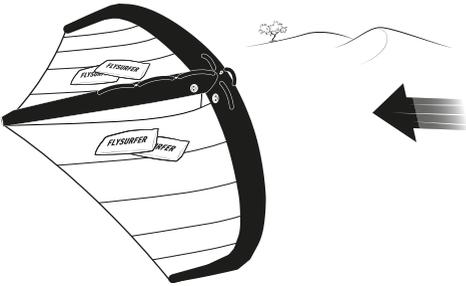


To ensure the correct operation of the Free Flow valves in the long term, we recommend:

- ▶ Avoid getting sand in.
- ▶ Make sure there is no sand in the pump adapter before attaching it to the free flow valve.
- ▶ After air is completely purged, close the valve cap to protect the bladder from dirt or damage.

04.03 Secure

1 Flip the wing over so that the bottom side is on the ground and the leading edge faces the wind. Weigh down the wing with sand or a sufficiently heavy, blunt object on the sail.



The wing can also be attached to an object with the arm leash to secure it. Keep the leash short to prevent the wing from bouncing on the ground!

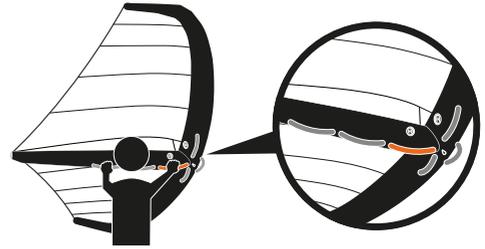
04.04 Carry

Hold the wing by the **handle at the front** of the leading edge so it can blow in the wind. Move with the leading edge pointing upwind to stay in control.



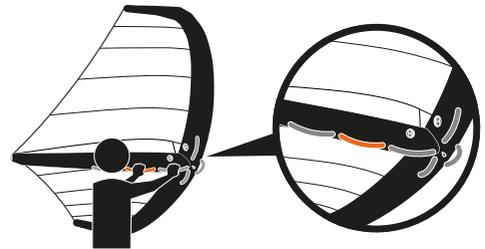
04.05 Handle positions

Grab the **first position** with your front arm (in riding direction) and use it to guide the wing. This position is used to regulate the angle to the wind and the force that acts on your arm.



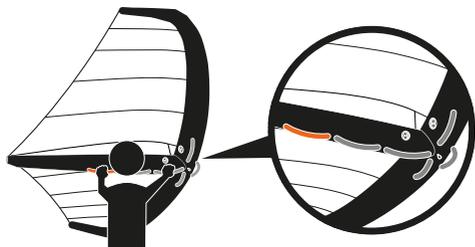
If you move your hand towards the leading edge, you reduce the pressure on the arm. If you bend the arm strongly to pull the wing towards the body, the wing loses power.

On the downwind course reach for the **middle grip** position with your backhand. This handle is not needed on any other course. It is also used to help to water start with small boards with a volume below the body weight.

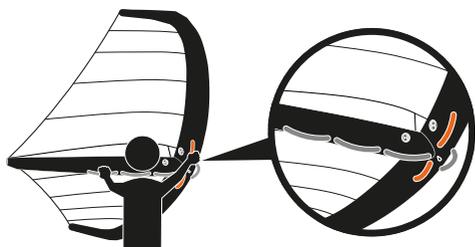


The wings force acts almost exclusively on this handle position. The use requires a lot of physical strength.

The **handle closest to the trailing edge** is used to regulate the force produced, depending on the angle or hand position.

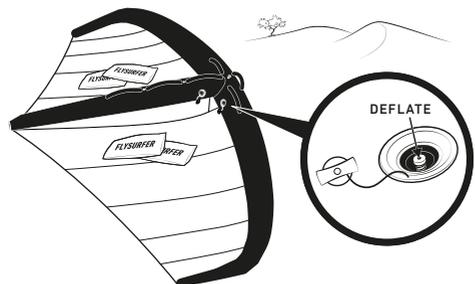


Use the **extra handles** to save energy on the half wind course or when crossing the wind. The wing can be guided more easily overhead to avoid water touchdowns.

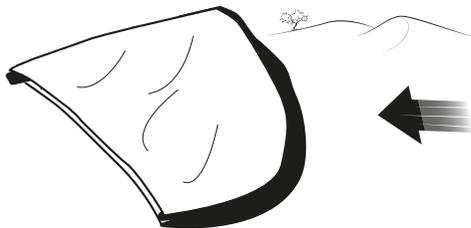


04.06 Pack up

1 Deflate the wing using both free flow valves.

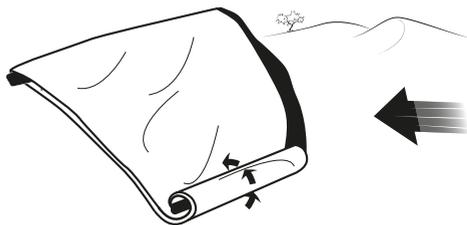


2 Before folding the wing, push most of the air out of the bladder. Place both wingtips on top of each other.

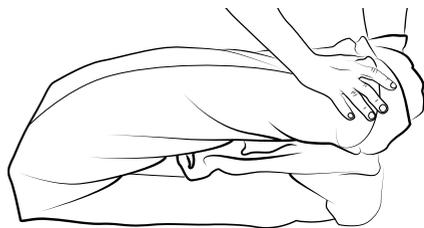


To reduce the pack size, a third of the strut can be folded towards the leading edge beforehand. Avoid kinking the windows.

3 Roll the wing towards the center to push the remaining air out of the bladder.



4 Fold the wing so that it can be easily stowed in the bag.



The wing windows should not be folded. Folding the window can cause cracks and breaks in the material. Damage from cracks and breaks in the window is excluded from the warranty.



05 WING CARE

FLYSURFER wings are durable and UV and saltwater resistant. With proper care, your wing may last even longer. Eventual color changes of the cloth can be caused by environmental causes, UV-exposure, mechanical strain as well as dirt. A color change has no influence on the flight characteristics whatsoever and is not covered by warranty.

Drying

If a wing is packed away wet and left for a long period of time it can develop ugly mildew spots, rust on the metal parts or color bleeding of the cloth. This does not affect how the wing performs, but will reduce the value of your wing. In extreme cases the wing may get mouldy. To dry, simply continue to fly the wing until the canopy is dry.

Tip: To speed up the drying of the wing, put it inflated in light wind when there is little sunlight. Avoid hitting or flapping in the wind and make sure the wing is secured.

Rinsing

Rinse your wing from time to time with clear water, after using it in salt water, and leave it to dry in the shade. Do not use any detergents. The warranty will be void after the use of detergents on the cloth.

Check

Check all parts of the wing before each use. Especially parts that can wear out. Material failure on those parts can lead to further damages, or put the wingsurfer at risk.

Storage

We recommend a dry storage at plus degrees. Folding the wing should be avoided when storing. If folding / kinking is necessary, we recommend laying out the wing regularly during storage.

06 REPAIR

Before starting the repair, we recommend that you go to a place that is protected from sand, water and wind and has a clean surface. We recommend having the wing repaired by one of our professional partners (specialist shop, school, workshop) who work with original spare parts.

The included repair kit contains material to repair small damage (cracks, holes) in the bladder or sail.

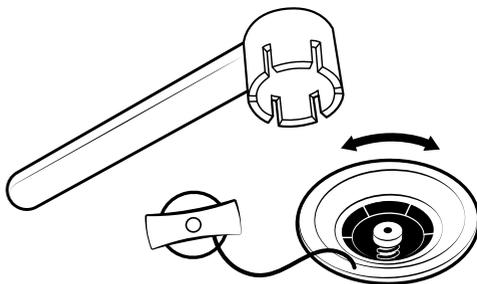
06.01 Cloth repair

In case you get a small tear (e.g. through contact with a sharp object) we have included a repair kit with your wing. The area that needs to be repaired must be clean, dry and grease-free. Temporary repairs are possible with spinnaker repair tape. It is recommended that you round off the edges of the repair tape. A repair manual is included with the binding agent.

Tip: When a tear is close to a seam (less than 5cm), we recommend using sewing to repair the damaged area.

06.02 Valve replacement

A special tool (key) is required to replace the valve. The free flow valve can be screwed out of the body with the key. The cap can easily be replaced and any damage to the pin or the metal spring repaired.

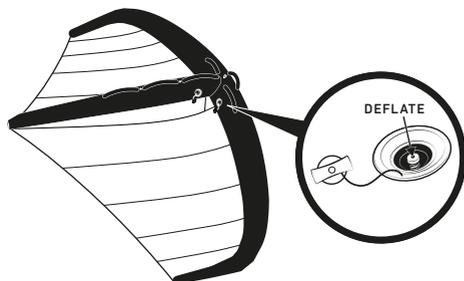


06.03 Bladder replacement or repair

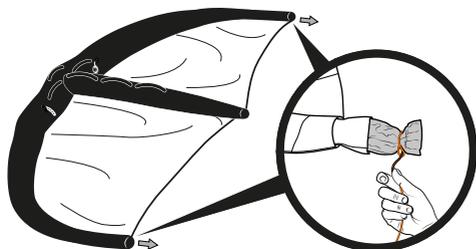
Bladder replacement or repair is a complex process and should be carried out by a specialist.

We recommend a second person to help.

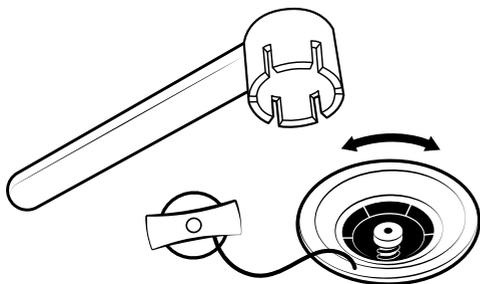
- 1 Put the wing on the ground and deflate the air.



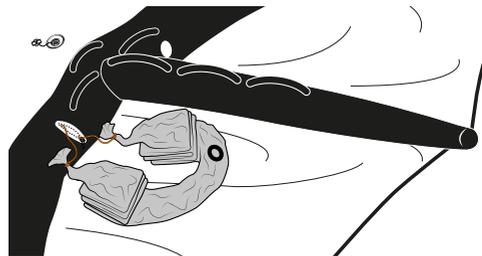
- 2 Open the ends of the leading edge and attach a long line to each end of the bladder.



- 3 Use the special tool (key) to screw the valve out of the body of the Leading Edge. Loosen the hook-and-loop fastener on the valve connection and press it into the tube.



- 4 Open the zipper in the middle of the wing and pull the bladder out of the tube via this exit. The previously attached lines now run through the chamber of the leading edge.



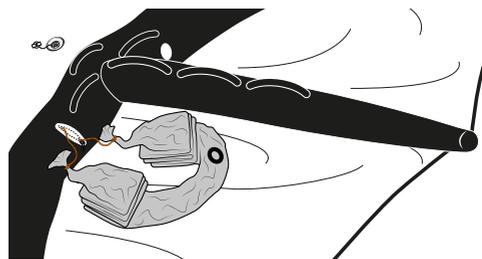
- 5 After the bladder is completely extracted from the tube, the lines can be removed and attached to the center of the wing. The lines stay in the body of the leading edge so that the bladder can later be pulled through the tube again.

Visually check the bladder for leaks. If the visual inspection has not produced any result, partial areas can be checked with a sponge moistened with water.

Quick repairs can be carried out on small holes or small cracks (e.g. by a sharp object) with a **self-adhesive bladder plaster**. The area to be repaired must be clean, dry and free of grease. It is advisable to roughen the area to be covered around the hole or crack.

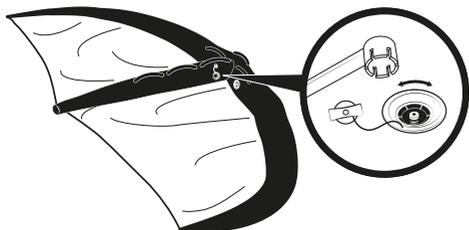
Check the airtightness of the bladder before it is pulled back into the tube.

- 6 Place the bladder with the free flow valve in front of or on the wing. Attach the lines to the bladder ends.

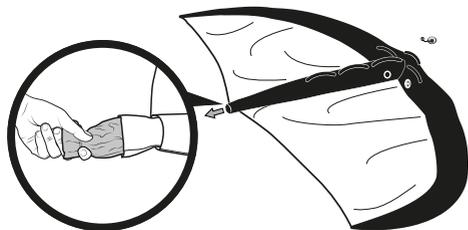


- 7 Fold the bladder and use the lines to carefully pull it into the tube. Close the ends of the tube and the zipper.

8 Use the special tool (key) to unscrew the valve from the body of the strut. Separate the hook-and-loop fastener from the valve connection and press the valve into the tube.



9 Open the end of the strut and pull the bladder out through this opening.

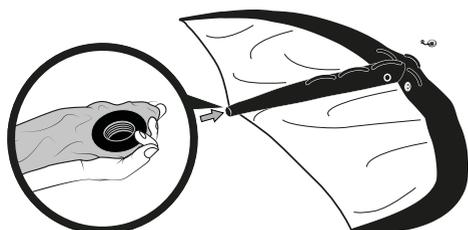


Visually check the bladder for leaks. If the visual inspection has not produced any result, partial areas can be checked with a sponge moistened with water.

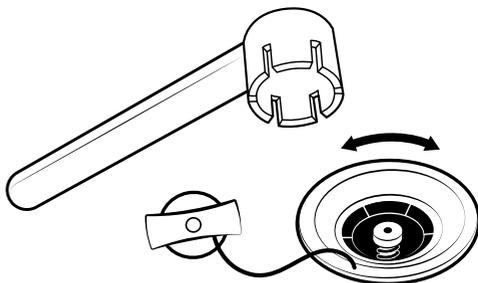
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Check the airtightness of the bladder before it is pulled back into the tube.

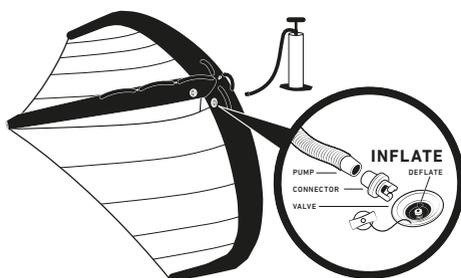
10 Grasp the bladder by the valve and insert it into the strut. Position the valve in place and align the bladder along the strut. Close the end of the strut.



11 Use the special tool (key) to screw the valves back into the leading edge and strut.



12 Inflate the wing softly and check its shape (avoid bubbles, warpage or large wrinkles), repeat the process several times.



Finally, the wing should be inflated for at least two hours according to PSI information.

06.04 Handle repair

If the handles are damaged, we recommend that they be repaired by a specialist. Small cuts on the surface can be sewn independently.

06.05 PVC viewing window repair

We recommend having a specialist replace a PVC window as a whole. Small cuts or holes can be treated like cloth repairs with sail repair tape.



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