



skywalk

X-ALPS

Ultralight Performance – LTF09: DE | EN: D

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INTRODUCTION

Welcome to skywalk!

Congratulations on the purchase of your new X-ALPS3 and thank you for your trust in us and in our products. In this manual you will find information that will help you quickly get to know your new paraglider to ensure your fun for a long time.

At skywalk we are enthusiastic about wind sports and innovative technologies. When we founded skywalk in 2001, our goal was to make paragliders and kites that offer new solutions to set new impulses, and to provide customers with a maximum of user friendliness. Today we are one of the most successful paraglider manufacturers in the world. For this we are thankful for our curiosity about everything that flies, sails and surfs, as well as our interest in a variety of outdoor sports. It's this "big picture" view that allows us to continuously set new accents in paragliding.

We are always open for questions, comments or critique and are happy to provide you at any time with further information!

Your skywalk Team
 PURE PASSION FOR FLYING

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 The latest version of the manual can be found on www.skywalk.info

2 DESCRIPTION

The X-ALPS3 was developed for Hike & Fly pilots who want to achieve the maximum in competitions like the Red Bull X-Alps. The optimal synthesis of high performance, balanced flight characteristics and radically low weight design provides the basis for huge successes where every gram counts.

PILOT REQUIREMENTS

The X-ALPS3 is designed for pilots well practised in recovery techniques, who fly very actively, have significant experience of flying in turbulent conditions, and who accept the implications of flying such a wing.

SCOPE OF DELIVERY

The X-ALPS3 comes standard with inner bag, compression strap, user manual, glider backpack and riser bag.

JET FLAPS

Each of our gliders is equipped with skywalk's patented JET FLAP technology. Air is conducted from the bottom of the wing (pressure area) to the top of the wing (vacuum area) and is blown out there with a higher speed. The connection is established through jet shaped channels located toward the back of the wing. The addition air mass on the top of the wing delays the flow separation. The stall occurs later, the minimum flyable speed is lower, and the pilot has more reserve in the angle of attack. This is especially important in phases such as takeoff and landing. The JET FLAPS also help to improve climb performance since they allow you to circle very slowly in thermals with little danger. The glider can be flown normally as the JET FLAPS don't require any special control technique.



2 TECHNICAL DATA

Size	XXS	XS	S
Cell number	80	80	80
Area flat (m ²)	20,5	21,5	22,4
Wingspan flat (m)	11,98	12,27	12,57
Aspect ratio flat	6,99	6,99	6,99
Area projected (m ²)	17,67	18,54	19,3
Wingspan projected (m)	9,77	10	10,21
Aspect ratio projected	5,4	5,4	5,4
min. profile depth (cm)	46,1	47,2	48,2
max. profile depth (cm)	212	217	221
middle line length without risers (cm)	690	706	722
Line consumption (m)	266	272,8	278,7
Weight (kg)	3,3	3,4	3,5
Take-off weight from - to (kg)	65–85	70–90	80–95
Winch certified	yes	yes	yes
JET FLAP technology	yes	yes	yes
Paramotor homologation	no	no	no
Accelerator	yes	yes	yes
Maximum speed bar travel (mm)	180	180	180
Trimmers	no	no	no
Number of seats	1	1	1

CAUTION



THE FIRST FLIGHT MUST BE CARRIED OUT BY A QUALIFIED EXPERT. THE TYPE CERTIFICATE AND THE DATE OF THE FACTORY INSPECTION CAN BE FOUND IN THE MIDDLE CELL OF THE GLIDER. THE DATE OF THE FIRST FLIGHT AND NAME OF THE PILOT SHOULD BE ENTERED HERE. SHOULD THIS BE MISSING, ASSUME THAT THIS GLIDER IS A PROTOTYPE THAT HAS NOT BEEN TESTED.

2 LINE SYSTEM

The layout of the suspension points is designed for optimal load distribution and a long lifespan. With all considerations and calculations however, our focus is always on safety. The mix of materials used on the lines of the X-ALPS3 is an ideal combination of durability, low stretch and low drag.

The skywalk X-ALPS3 has 3 A-, 3 B-, 3 C-, and 1 stabilo line.

The main-stabilo is connected with the B2-riser.

The brake lines are not load-bearing and lead from the trailing edge over the main brake lines through the brake pulleys on the C-risers to the brake handles.

A marking on the main brake line indicates the position of the handle attachment.

This setting should not be lengthened, for example, to provide more brake travel in extreme flight situations or during landing, nor shortened such that the glider is flown constantly with some brake on.

To provide a better overview and to make sorting easier, the lines have different colors:

- the Stabilo lines have a pink loop cover
- the main brake-lines are orange
- the remaining lines are unsheathed.

The lines are attached with loops to triangular shackles and secured with rubber rings.

The skywalk X-ALPS3 has 5 risers per side.

These are depicted in a schematic diagram at the end of this manual.

IMPORTANT SAFETY WARNING



FLYING A PARAGLIDER REQUIRES MAXIMUM CAUTION AT ALL TIMES. WE REMIND YOU THAT YOU FLY YOUR PARAGLIDER AT YOUR OWN RISK! AS THE PILOT IT IS YOUR RESPONSIBILITY TO ENSURE THE AIRWORTHINESS OF YOUR GLIDER BEFORE EVERY FLIGHT. REMEMBER THAT MENTAL FITNESS IS ALSO A RISK FACTOR.

The skywalk X-ALPS3 may not be flown:

- outside of the minimum and maximum certified takeoff weights
- with a motor
- in rain, snow, or in extremely turbulent weather conditions, or in strong wind
- in clouds or fog (visual flight)
- with insufficient pilot experience
- if flown with more than one person
- if the canopy is wet
- at temperatures under -30°C or over 50°C
- for acrobatic flight (flight maneuvers at an angle of more than 135 degrees)

During production, the X-ALPS3 underwent carefully selected quality controls and was inspected once again before shipping. Keep in mind that a paraglider can only be flown while observing the laws of the country in which it is flown.



3 ACCELERATION SYSTEM

The skywalk X-ALPS3 can be equipped with a foot-operated acceleration system. The acceleration system effects the A, A2, B and B2 risers. Exact lengths and an illustration of the risers can be found at the end of the instructions. Both risers are equipped WITHOUT trimmers.

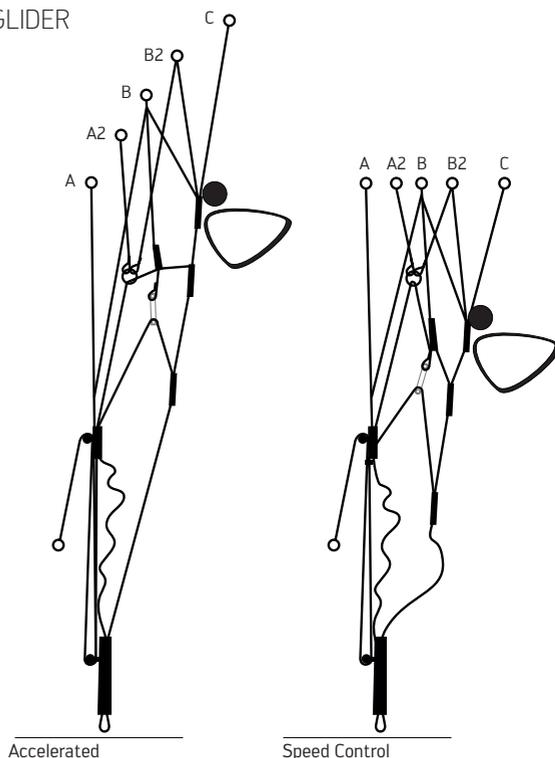
SPEED CONTROL HANDLE

Handle on rear riser. This handle allows the pilot to even out turbulence, speed and pitch while flying on speed bar without having to release the speed bar. Pull down the handle, but only so far that the line shackles on the rear riser don't drop below the line shackles on the A-riser.

CAUTION



WHEN FLYING AT TRIM SPEED, THE HANDLE SHOULD ONLY BE USED FOR STEERING THE GLIDER IN CASE OF EMERGENCY.



4 HARNESS

The skywalk X-ALPS3 is licensed for all certified harnesses of the GH type (harnesses without solid cross-bracing). Be aware that the relative brake travel and the agility of the glider change with the height of the attachment point.

5 FLIGHT TECHNIQUES AND CHARACTERISTICS

PREFLIGHT CHECK AND MAINTENANCE

It is important to check all paragliding equipment thoroughly before every flight to see if it has any defects. Also check the paraglider after long flights and after long storage.

Check thoroughly:

- All seams on the harness, the rescue chute attachments and the risers
- That all connecting parts, line shackles and carabiners are closed
- The brake line knots right and left, following the lines all the way up to the canopy
- All other lines from the risers to the canopy
- All line attachment points on the canopy
- The top and bottom of the wing for damage and wear and tear
- The profiles and the crossports on the inside
- If the glider is dry

CAUTION



DO NOT LAUNCH IF YOU FIND ANY DEFECTS, EVEN SMALL ONES! IF YOU FIND ANY SIGNS OF DAMAGE OR ABNORMAL WEAR AND TEAR, CONTACT YOUR FLIGHT SCHOOL OR SKYWALK DIRECTLY.

LAYING OUT THE GLIDER

If you use your paraglider for the first time we recommend that you practise some inflations and try some simple flights at a training site. This way you are able to get used to your skywalk X-ALPS3. Lay out the canopy so that the leading edge is slightly arched.

The middle of the canopy should form the deepest point of the paraglider. This way the A-lines are tensioned first in the middle whilst inflating. The paraglider inflates evenly which ensures a stable and straight take off.

The X-ALPS3 is very easy to sort due to the 3 line levels, yet sorting should always be completed carefully. All lines have to run freely without any knots and twists from the risers to the canopy.

During flight, tied or crossed over lines can often not be released or untangled! The brake-lines are lying directly on the ground, so please pay attention that they do not become entangled during launch. There shouldn't be any lines beneath the canopy during take-off. Line-overs can have fatal consequences!

TAKE-OFF

The skywalk X-ALPS3 is easy to launch. Hold the A-risers and the brake handles in your hands. The brake lines are coloured orange and the brake handles are black. Hold your arms slightly sideways and backwards like an extension of the A-risers. Before launching check the laid out glider.

Further check the wind direction and the airspace! Pull rapidly and the canopy of the skywalk X-ALPS3 will launch and rise above your head. The canopy will inflate fast and reliably. Keep the paraglider straight above your head and run forward.

Slow down a little as soon as the upward pull decreases. You can open any collapsed cells by pumping the affected side. Changes of directions that are necessary can be carried out now. Look and feel that the wing is properly inflated. Don't make your final decision to accelerate or to take-off until you are absolutely sure that the wing is properly and evenly inflated. Otherwise, stop the take-off procedure immediately! During reverse launches and in strong winds, it is possible that the paraglider surges forward and inflates faster than intended.

You can counteract this by running towards the glider. We recommend practicing this demanding launch technique on a flat slope! If you reverse launch it is advisable to only use the inside A-risers. This way the glider opens a bit more slowly and in strong winds you don't have to deal with the full pressure at once.

TURNING

The skywalk X-ALPS3 is very manoeuvrable and reacts to steering inputs directly and without delay. Simple weight shift enables you to fly very flat turns with minimal altitude loss. Combined steering technique: Weight shifting and pulling of the inside brake line allow extra tight turns. During turning you can control the speed, the curve radius and banking by additional use of the outer brake. Counter braking or releasing the brake lines can change these parameters most effectively.

CAUTION



PULLING THE BRAKE LINES TOO FAR AND TOO FAST CAN CAUSE A STALL! YOU CAN RECOGNIZE AN IMPENDING NEGATIVE SPIN BY THE HIGH CONTROL LINE PRESSURE AND SLIGHT BACKWARDS FOLDING OF THE WING TIP. IF THIS HAPPENS, RELEASE THE INSIDE BRAKE IMMEDIATELY.

EMERGENCY STEERING

Should a brake line break or a brake handle become detached, you can still steer and land the glider with limited control using the C-risers.

ACTIVE FLYING

Active flying means flying in harmony with your paraglider. That means that instead of flying with the brakes always in the same position, you are aware of the slightest disturbances in the air and react accordingly, especially in turbulent thermals. Never let go of the brake handles, especially in turbulent conditions! Despite your glider's high stability, you should constantly use brakes and weight shift to correct the position of the canopy in turbulence. With a light tug on the brakes you can constantly keep in contact with the canopy and feel its internal pressure. That way you can recognize and react early to a pressure drop and impending collapse. As you gain experience, these reactions will become instinctive.

The skywalk X-ALPS3 rarely collapses even without a pilot reaction. However, maintaining an active flying style will greatly increase your margin of safety.

Examples:

- To avoid large changes in the angle of attack, release the brakes when flying into strong updrafts and pull them when flying into downdrafts.
- When flying in turbulent air, if you feel a drop in pressure in parts of your glider, pull the brake briefly and progressively until the pressure becomes normal again. If you brake the wing too quickly and too far, you risk stalling it!

ACCELERATED FLYING

The speed bar should be secured to the harness prior to launch.

To use the acceleration-system you will need to make some effort. This can affect the sitting position in the harness. Therefore we recommend an upright position in the harness. Adjust the harness before your first attempt of accelerated flight.

We remind you to only fly in wind conditions that don't require constant use of the acceleration-system.

To reach the maximum speed press the acceleration-system firmly until both pulleys on the A-risers touch each other. As soon as you apply the acceleration-system the angle of attack will be reduced, the speed increases, but the paraglider becomes less stable and can collapse more easily. Therefore always use the acceleration-system with adequate altitude from the ground, obstacles and other aircraft.

Avoid adjusting the speed bar too short. It is important to avoid unintentionally accelerating the glider due to a setting that is too short. Accelerated collapses are normally more impulsive and demand fast reactions.

CAUTION



- NEVER ACCELERATE IN TURBULENT AIR!
- NEVER ACCELERATE NEAR THE GROUND!
- NEVER LET GO THE BRAKE HANDLES!
- NEVER BRAKE THE GLIDER SYMETRICALLY WHILE FLYING ACCELERATED!



LANDING

The skywalk X-ALPS3 can be landed easily. Make your final approach against the wind and let the glider slow down at its own rate. Further reduce the speed by applying the brakes lightly and evenly. At about 3m above the ground you increase the angle of attack by slowing down more and eventually completely flare out the glider.

When you have reached the minimal speed apply full brake. In strong head winds, slow down carefully. When you have reached the ground safely, stall the glider warily. Avoid turning sharply before your final approach. This increases the danger of pendulum effect!

PACKING

Conscientiously packing your glider guarantees a consistently high quality. First, remove all leaves, grass, sand, etc., then sort the lines and lay them on top of the glider. Always make sure that the glider is dry and clean before you pack it.

Start with the second cell from the middle and lay them cell for cell on top of each other so that the reinforcements of the inlets are kept together. Repeat this process on the trailing edge by starting from the middle and folding together every second panel, drawing them towards the middle. After that, lay the folded panels on top of each other and press the air from the trailing to the leading edge. After doing this on both sides, turn one half onto the other and beginning from the bottom, fold the glider up towards the leading edge.

You can fold the risers in with the glider or leave them sticking out at the bottom or still attached to your harness. When packing, remember to straighten out the lines and shackles to keep them from bending. After every fold, let out the remaining air in the glider through the leading edge. Attach the compression strap around the glider loosely and place it in the nylon bag. If you prefer to use a tube, the steps are the same up the point where you turn the folded panels onto each other. Pull the straps tight and make sure that no material is caught in the zippers.

You can also pack any skywalk glider with elastic nylon wires by any other method without damaging the leading edge. Place the harness with the seat board facing up (to distribute the load better) on top of your glider and close the zippers. You will find adequate space rest of your equipment (helmet, overall, instruments, etc.) under the cover of the rucksack.

A hint to increase the life of your glider even more:

Don't pack your glider too tightly. Treat the leading edge with care despite its robustness and open up your wing a bit if you store it for a longer period of time.

WINCHTOWING

The skywalk X-ALPS3 is well suited for winch towing.

Make sure that you only use certified winches and that you climb from the ground at a flat angle.

The pilot must have had proper towing instruction and must ensure that the winch operator has had proper training that includes paragliders. When launching on a winch, always fly with a lot of feeling and don't brake too much as your glider will already have an increased angle of attack. We recommend the use of a towing adapter.

FLYING WITH A MOTOR

Currently, the X-ALPS3 has no certification for flying with a motor.

You can find out the current status of motor certification at any dealer or importer, or by asking skywalk directly.

6 DESCENT TECHNIQUES

This manual is not intended to be an instruction manual and skywalk highly recommends taking part in a safety training course over water.

The following hints will help you to get the most out of your glider.

For all extreme maneuvers it is important:

- First to practice them under the tutelage of a certified flight instructor as part of a safety training course.
- To ensure that the airspace below you is clear before entering each maneuver.
- To maintain eye contact with your glider throughout each maneuver.

SPIRAL DIVE

The skywalk X-ALPS3 does not tend to enter a stable spiral dive – rather, it will recover by itself if the brakes are released. You can enter a spiral dive by carefully increasing the brake pressure on the inside of a turn while shifting your weight in the same direction.

If the glider doesn't bank enough and the sink rate doesn't increase, it's better to start over again rather than to keep applying brake without sensitivity. The spiral begins when the glider banks sharply to the side and enters a sharp, steep turn. You can control the bank angle and descent rate by applying or releasing the inside brake.

The spiral dive can be used to lose altitude quickly, so please consider the following:

- High sink rates and the related high G-forces lead to a high physical strain on the body that may be too much for inexperienced pilots! Approach spiral dives slowly!
- Tensing your stomach muscles during a spiral dive can be very helpful!
- If you feel dizzy or faint, exit the spiral dive immediately!
- Due to the extreme altitude loss in a spiral dive, make sure you always have enough safe reserve.
- To avoid strong surging when exiting the spiral dive, release the inside brake slowly while continuing to apply the outside brake.
- The brake line pressure in a spiral dive is substantially higher than in normal flight!

CAUTION



TO EXIT A SPIRAL WITH A HIGH SINK RATE (→ 14M/S), IT MAY BE NECESSARY TO BRAKE THE OUTSIDE HALF OF THE GLIDER AND/OR TO SHIFT YOUR WEIGHT TO THE OUTSIDE OF THE TURN. THE EXIT MAY REQUIRE SEVERAL COMPLETE ROTATIONS AND MAY CAUSE A HIGH LOSS OF ALTITUDE. FOR THIS REASON, DON'T PERFORM THIS MANEUVER AT AN ALTITUDE OF LESS THAN 200 METERS! BY THE TIME YOU REACH THIS ALTITUDE, THE MANEUVER SHOULD HAVE ALREADY BEEN COMPLETED!

BIG EARS

In contrast to the spiral dive, with big ears your forward speed is higher than your sink speed. This descent method is used to quickly leave dangerous areas in a desired horizontal direction. To collapse the wing tips, pull down both outside A-lines, which are connected to separate A-risers. The resulting collapsed wing tips will put the glider in a stable sink flight. The brake handles remain in your hands together with the outer A-risers. The glider can still be steered by weight shifting. The danger of canopy disturbances in turbulent air is greatly reduced with big ears.

To exit, release the A-lines. The canopy will normally reopen by itself. You can brake a little to speed-up the opening. It is better if you reopen one side at a time to reduce the danger of a stall.

Examples:

- If the pilot is surprised near a summit with little ground clearance by strong wind or a thundercloud, neither a B-stall nor a spiral dive can help.
- If the pilot is stuck in very strong lift, it is advisable to exit the lift band with the use of big ears and to find sinking air in which to lose altitude.

B-LINE STALL

This manoeuvre is not possible with the X-ALPS3. For fast descent use a spiral dive.

7 EXTREME FLIGHT MANEUVERS

ASYMMETRIC COLLAPSE

The X-ALPS3 is an EN/LTF D glider and should be flown by seasoned pilots with experience in extreme conditions. Your skywalk X-ALPS3 is a very stable glider, but collapses can still happen in strong turbulence.

The inherent turn toward the collapsed side of the glider can be minimized by braking the open side. With large collapses, brake the open side carefully to avoid stalling the wing. If the collapse doesn't open despite braking and weight shifting on the open side, you can speed up the opening process by repeatedly pumping the brake on the collapsed side.

CRAVAT/ LINE OVER

This type of disturbance has never occurred during test flights with the skywalk X-ALPS3. However, it is possible in extremely turbulent air or due to a pilot error that part of the wing could get tangled in the lines. The pilot should first stabilize the glider by carefully braking the open side. Without pilot reaction, a cravat can cause a glider to enter a stable spiral dive!

To clear the cravat, there are several possibilities:

- Pumping the open side
- Pulling on the stabilo-line
- Perform a manual collapse of the affected side
- Fullstall

Should these maneuvers not succeed or if the pilot feels overwhelmed by the situation, the rescue parachute should be deployed immediately!

FRONTSTALL

The glider can be front-stalled with a strong pull on the A-risers or when encountering sudden down drafts. The leading edge collapses impulsively along its entire length. Light brake pressure can reduce oscillations around the longitudinal axis and will help to speed up the opening of the canopy. The skywalk X-ALPS3 will recover from a front stall by itself. Should the recovery be delayed by turbulence, you can support it with light braking on both sides. Make sure that you don't over brake your glider!

PARACHUTAL STALL

The X-ALPS3 never showed a tendency to parachutal stall in the entire development phase. Despite this, it is possible to perform a parachutal stall. Gliders with porous material (UV radiation) are especially susceptible, as are those that are burdened frequently by winch tow launches. A parachutal stall can also occur when the glider is flown in rain (soaks up moisture). The glider has no forward speed and a high sink rate.

The skywalk X-ALPS3 will normally recover from a parachutal stall by itself. If this doesn't happen, the pilot can end the stable parachutal stall by pushing forward on the A-risers at the level of the line shackles or by activating the speed bar with your feet.

CAUTION



IF YOU APPLY THE BRAKES DURING A PARACHUTAL STALL, THE GLIDER WILL IMMEDIATELY ENTER A FULL STALL. NEAR THE GROUND, A STABLE PARACHUTAL STALL SHOULD NOT BE EXITED DUE TO THE RESULTING OSCILLATIONS. INSTEAD, THE PILOT SHOULD SIT UP IN HIS HARNESS AND PREPARE FOR A PARACHUTE LANDING FALL.

NEGATIVE SPIN

A paraglider enters a negative spin when one side of the wing is stalled. The canopy rotates around the vertical axis with the center of rotation located within the wingspan. The inside wing flies backwards.

There are two causes for the negative spin:

- One brake is pulled too far and too hard (e.g. when entering a spiral dive)
- One brake is pulled too hard when flying slowly (e.g. while thermal flying).

If an accidental negative spin is exited immediately, the skywalk X-ALPS3 will normally resume flight without much altitude loss. Just release the brake line that was pulled too far until the airflow is restored to the inside wing. After a long negative spin, the canopy may surge forward on one side. This could result in an impulsive collapse.

WINGOVERS

Alternating left and right turns as the bank angle is gradually increased. If wingover are flown high with a large bank angle, the outside wing tip may loose pressure and start to feel light. In this case, don't increase the bank angle any more as the tip could collapse impulsively.

CAUTION



NEGATIVE SPINS AND WINGOVERS OVER 135° ARE FORBIDDEN ACROBATIC MANEUVERS AND ARE NOT ALLOWED TO BE FLOWN UNDER NORMAL CONDITIONS. THE WRONG EXIT TECHNIQUE OR PILOT OVERREACTION CAN HAVE DANGEROUS CONSEQUENCES REGARDLESS OF THE TYPE OF GLIDER

FULLSTALL

A glider enters a full stall when both brakes are pulled down too far. The glider loses forward speed and eventually collapses back behind the pilot.

CAUTION



AT THIS MOMENT IT IS IMPORTANT TO NOT LET UP ON THE BRAKES, OTHERWISE THERE IS THE DANGER THAT THE GLIDER MAY SURGE FORWARD IN FRONT OF THE PILOT AND MAY EVEN FALL BELOW THE PILOT.

The available brake line travel is about 45cm for size XXS, 47cm for size XS and 49cm for size S. However, these values are only reference points to give an idea of the useable brake travel. In turbulent air, a stall can occur much earlier or later with the application of a higher or lower amount of brake line travel.

8 MATERIALS

The skywalk X-ALPS3 is manufactured from the highest quality materials. skywalk has selected the best possible combination of materials with regard to resilience, weight and performance. We are aware that the durability of the glider is a deciding factor in the pilot's satisfaction.

WING AND RIBS

Upper sail:	Porcher Skytex 27g
Lower sail:	Porcher Skytex 27g
Ribs:	Porcher Skytex 27g hard

LINES

A, B, C Main lines:	Edelrid 8000U-230,/U-190/U-90
A, B, C Middle lines:	Edelrid 8000U-90/U-50, Liros DC60
A, B, C Top lines:	Edelrid 8000U-50, 9200-30
Brake lines:	Liros PPSL160, DC60, Edelrid 9200-30

RISERS

Liros 6mm Dyneema

9 MAINTENANCE

With proper care, your skywalk glider should remain airworthy for many years. A well treated glider will be able to fly twice as many hours as a glider that after each use is stuffed without feeling back into its sack.

Always remember: your life depends on your glider!

STORAGE

Ideal is a dry, dark place with a constant temperature. Moisture is an old enemy of the durability of all paragliders. For this reason, always dry your equipment before you store it, preferably in a heated and well ventilated room, so that moisture can evaporate.

CLEANING

Any rubbing or abrasion can cause your glider to deteriorate quickly. The PU coated canopy material is dirt-repellent and in emergencies, can be cleaned easily. If you still think you need to clean your glider (e.g. of cow manure), then use a soft, damp towel or a sponge WITHOUT soap, solvent or detergent. Let your glider dry thoroughly before storing it.

REPAIR

Repairs should only be carried out by the manufacturer or by an authorized skywalk service center. Exceptions include the repair of small cuts (up to about 5 cm that don't affect a seam) that can be patched with skywalk sail tape, and the swapping out of lines. Replacement lines can be ordered directly from the skywalk homepage.

LINE REPAIRS

The main lines of the skywalk X-ALPS3 consist of a Dyneema- or Technora core. Avoid heavy loads on individual lines as excessive stretching may be irreversible. Repeating kinking of lines at the same spot reduces their strength. Visible damage to lines, even if it's only to the sheath, should be checked and possibly repaired. New lines can be ordered from the manufacturer or from an authorized skywalk service center. They will help you to replace defective lines. Before a line is replaced, the correct length has to be verified by comparing it with the corresponding line on the other side of the wing. After the replacement and before your next flight, perform a line check by kiting up the glider on the ground.

TRIM CHECK

To ensure maximum safety and performance, we recommend to measure the lines of the glider after 50 flight hours or 200 flights (according to which occurs first) to check the trim of the glider.

HINTS FOR MATERIAL CARE

- Avoid leaving your glider unused in the sun or lying outside in bad weather.
- Avoid exposing your glider to abrasion by dragging it over sticks and stones.
- Always fold your glider carefully and loosely and avoid sharp creases and extreme compression of the material.
- Always store the risers in the riser bag provided.
- Should the material come in contact with salt water, rinse it immediately and carefully with fresh water and make sure that it has enough time to dry in a shady location.
- If you land in a tree, never pull hard on the lines or material to free your glider. Rather, do so carefully and with patience. Once you have removed all leaves and branches from your glider, inspect the line lengths and symmetry before your next flight.
- When laying out your glider, make sure that neither material nor lines are dirty as particles caught in the fibers can shorten the lines and damage the material.
- If lines get caught on the ground, they can get stretched or torn during launching. For this reason, make sure that all lines are free and avoid stepping on them.
- Make sure that no snow, sand or stones find their way into the canopy because weight on the trailing edge of the glider can brake or even stall it. Should this happen anyway, lift up the glider by C-lines so that the air inlets are pointing down and the canopy can empty itself.

→ When launching in a strong wind, part of the glider may hit the ground hard. This can lead to tears in the ribs or damage to the seams. For this reason, inspect your glider on a regular basis for this type of damage.

→ After landing, don't let the glider fall to the ground on its nose as this can damage the material in the leading edge.

10 DISPOSAL

When choosing materials, skywalk places high value on environmental compatibility and the highest quality control. Should your glider someday no longer be flyable, remove all metal parts such as shackles, pulleys, etc. All remaining parts such as lines, material and risers can be turned in at a recycling center. The metallic parts can be turned in at a metals recycling center. The best solution is to send your retired skywalk glider directly to us. We will then take care of recycling it.

11 MAINTENANCE CHECK

According to LTF regulations your glider will have to undergo a maintenance check after 24 months or after 100 flight hours (according to which occurs first). According to these regulations the Two-Year-Check has to be carried out by the manufacturer, its representative or by the owner himself. The check will have to be confirmed by an official stamp (ex. Checkair label). Missing this deadline or if the check is carried out by an unauthorised company will lead the skywalk X-ALPS3 to lose any guarantee claim. We recommend not doing this check yourself. Without the proper instruments and specific knowledge the check will be insufficient. Airworthiness is therefore not guaranteed.

CAUTION



IF THE GLIDER IS SUBJECTED TO ABOVE AVERAGE WEAR AND TEAR (EXTREME FLIGHT MANEUVERS, FORBIDDEN ACROBAT FLIGHT MANEUVERS) OR IS USED FREQUENTLY IN SAND OR SALTY AIR, IT SHOULD BE INSPECTED EARLIER OR SHOULD UNDERGO AN ADDITIONAL INSPECTION!

Changes to the paraglider:

Your skywalk X-ALPS3 is manufactured within the regulated parameters of tolerance. These parameters are very narrow and must not be altered under any circumstance. Only this way the optimum balance between performance, handling and safety can be guaranteed!



CAUTION

UNAUTHORIZED CHANGES INVALIDATE THE TYPE APPROVAL AND ALL LIABILITY CLAIMS AGAINST THE MANUFACTURER ARE INVALIDATED.

12 HOMOLOGATION

The X-ALPS3 is certified to LTF09 and EN926-1, EN926-2 in the category D.

Special folding lines were used when X-ALPS3 was going through certification. Without these folding lines, asymmetric and symmetric collapses (tucks and frontals) may not behave or recover as they did in certification tests.

The folding lines have a special setting according to the LTF/EN D requirements.

At the canopy, the folding lines are attached to special loops at the test model. At the lower end, their three main lines are attached to a special riser. Please contact skywalk if you have any questions regarding use of the folding lines and riser.

The X-ALPS3 is defined as a lightweight sport aircraft with an empty weight of less than 120kg in the paraglider category. The many homologation tests are the last hurdle in the development of a skywalk paraglider. The homologation test flights only take place when the test team is completely happy with the glider development.

We remark that the certification results will differ during flight in thermals or turbulent air. The homologation informs solely regarding the paraglider performance during extreme-flight-manoevres performed in stable air conditions. These extreme-flight-manoevres during the homologation process should thus not be overvalued.

Remember that certification maneuvers were carried out with a harness in the group GH with a carabiner distance (middle to middle) of 42-46 cm. If another harness is used, the glider may display flight characteristics that differ from those in the description.

13 NATURE AND ENVIRONMENTALLY COMPATIBLE BEHAVIOR

We have taken the first step towards ecological awareness with our nature-friendly sport. Especially with our mountain climbers who prefer to climb to the launch site.

Nevertheless, we plan on continuing in the same vein. This means specifically: clean up your trash, stay on marked trails and don't cause unnecessary noise.

Please help to maintain the balance of nature and to respect animals in their territory.

14 CLOSING WORDS

The skywalk X-ALPS3 is at the pinnacle of paraglider development in the market for high performance wings and shows what is possible regarding performance, safety and innovation. It cost us a lot of time to develop this glider, but it was also a lot of fun. In this development we recognize the challenge of making the right product for every area and individual taste. We are pleased if you notice this during your first flight and if you feel a certain unity with your glider from the very beginning.

The X-ALPS3 will provide you with plenty of joy over many years if you treat it and care for it properly. Respect for the demands and dangers of our sport are essential for successful and beautiful flights. Even the safest paraglider can be dangerous due to misjudgments of meteorological conditions or pilot error.

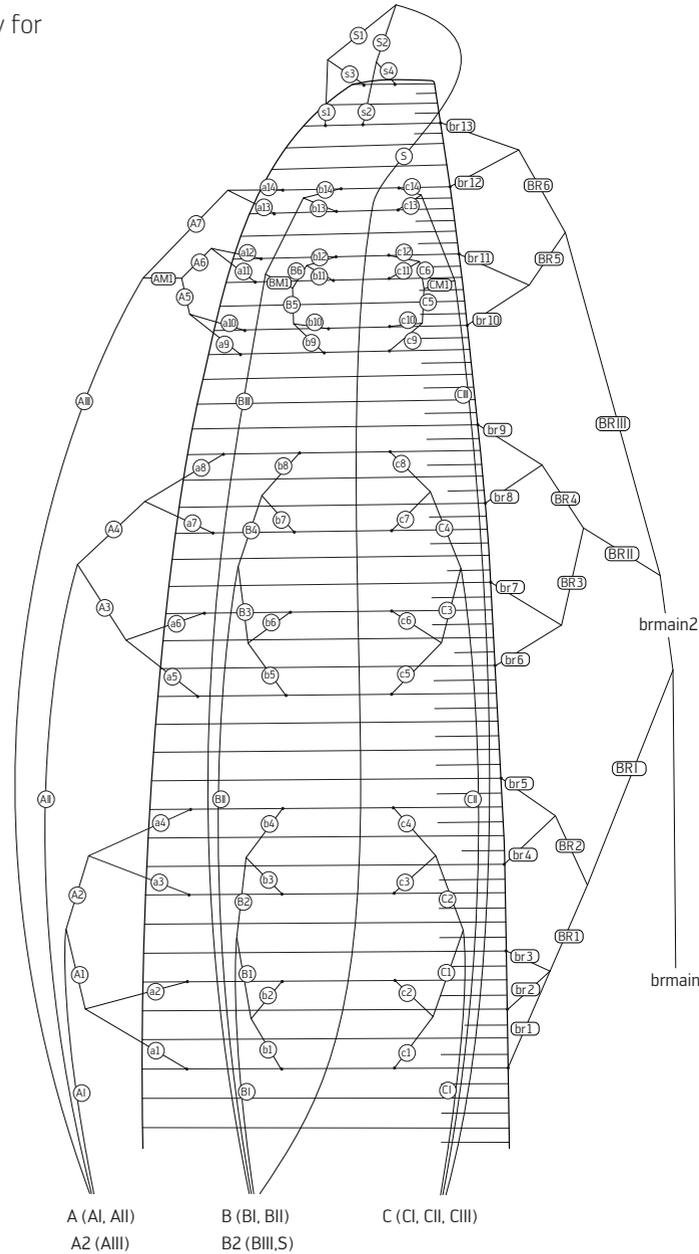
Always remember that flying sports are potentially risky and that you are responsible for your own safety. We advise you to fly carefully and to respect laws in the interest of our sport, because every pilot always flies at his or her own risk!

WE WISH YOU A LOT OF FUN WITH YOUR NEW GLIDER AND ALWAYS HAPPY LANDINGS!!

Your skywalk Team

15 LINE SCHEMATIC

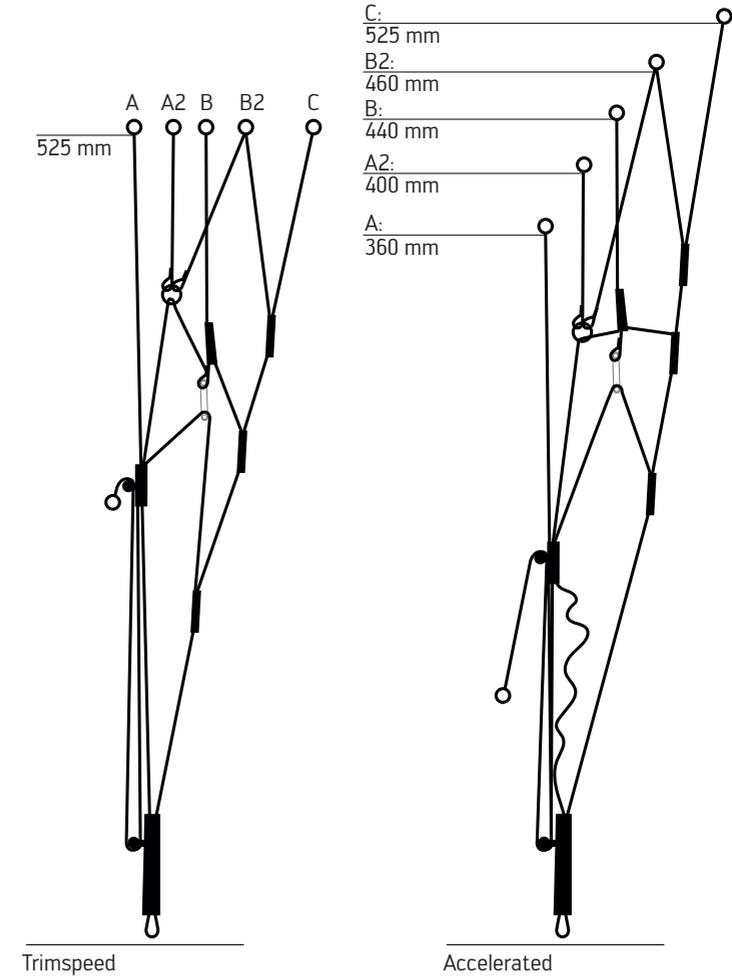
This line schematic is only for illustration purposes.



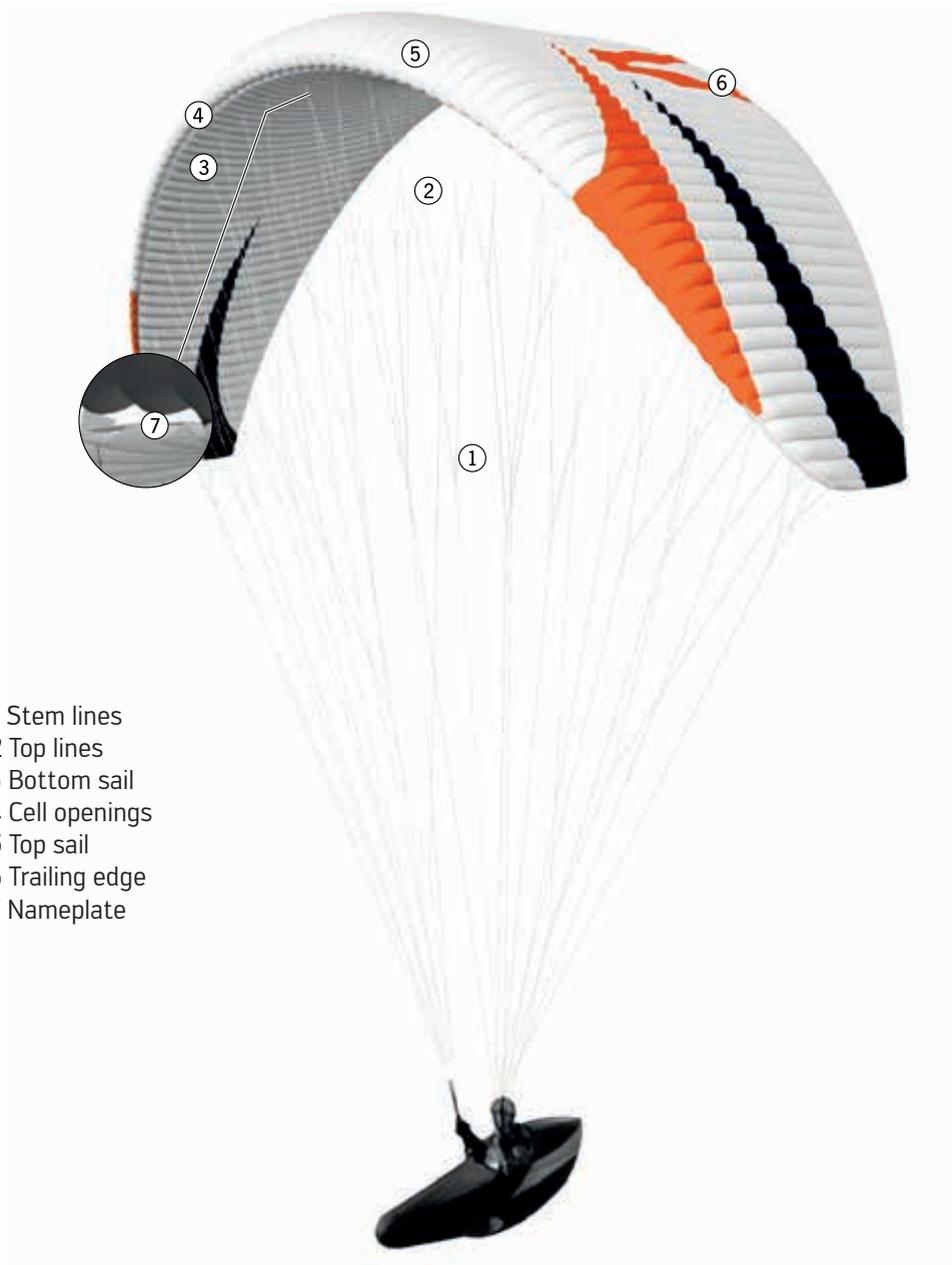
16 RISERS

X-ALPS3

Size XXS, XS, S



17 OVERVIEW GLIDER



- 1 Stem lines
- 2 Top lines
- 3 Bottom sail
- 4 Cell openings
- 5 Top sail
- 6 Trailing edge
- 7 Nameplate

18 LINE LENGTH

Total line length XXS: www.skywalk.info

Total line length XS: www.skywalk.info

Total line length S: www.skywalk.info

Single line length XXS: www.skywalk.info

Single line length XS: www.skywalk.info

Single line length S: www.skywalk.info

19 TEST PROTOCOL			Date:
Customer, Name:			
Adress:		Phone:	
Glider:	Size:	Serial number:	
GütesiegeInr.:		Date of last check:	
Date of first flight:	Year of construction:		

Accomplished checking:	Results [+/-]:	Description of failure:	Suggested repairs:
Identification:	<input type="checkbox"/> + <input type="checkbox"/> -		

Visual check of canopy:

Upper surface:	<input type="checkbox"/> + <input type="checkbox"/> -		
Lower surface:	<input type="checkbox"/> + <input type="checkbox"/> -		
Profiles:	<input type="checkbox"/> + <input type="checkbox"/> -		
Line flares:	<input type="checkbox"/> + <input type="checkbox"/> -		
Leading edge:	<input type="checkbox"/> + <input type="checkbox"/> -		
Trailing edge:	<input type="checkbox"/> + <input type="checkbox"/> -		
Crossports:	<input type="checkbox"/> + <input type="checkbox"/> -		

Visual check of lines:

Seams:	<input type="checkbox"/> + <input type="checkbox"/> -		
Abrasion spots:	<input type="checkbox"/> + <input type="checkbox"/> -		
Core withdrawals:	<input type="checkbox"/> + <input type="checkbox"/> -		

Vis. check of connectionparts:

Suspension line screw locks:	<input type="checkbox"/> + <input type="checkbox"/> -		
Risers:	<input type="checkbox"/> + <input type="checkbox"/> -		

Length measurement:

Risers:	<input type="checkbox"/> + <input type="checkbox"/> -		
Lines:	<input type="checkbox"/> + <input type="checkbox"/> -		

Examinations of the canopy:

Firmness of canopy:	<input type="checkbox"/> + <input type="checkbox"/> -		
Porosity:	<input type="checkbox"/> + <input type="checkbox"/> -		

Examinations of the lines:			
Firmness of main lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	daN	
	Results [+/-]:	Description of failure:	Suggested repairs:
Visual check of trimming:			
Checkflight necessary?			
Gütesiegel patch?			
Identification plate?			
Condition:	New Very good condition Good condition Well used Heavily used, but within gütesiegel standards, frequent checks required No longer airworthy, outside of the limit values.		
Repairs made?:			
Signature of tester:		Date:	
Name of tester:		Firm stamp:	

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NOTES

NOTES

SKYWALK 2+2 GUARANTEE

skywalk bietet seinen Kunden für alle nach dem 01.07.2007 gekauften Gleitschirme eine über die gesetzlichen Gewährleistungsvorschriften hinausgehende skywalk 2 + 2 Garantie. Die skywalk 2+2 Garantie umfasst Fehler am Material oder Verarbeitungsfehler und gilt für alle zugelassenen, (DHV Gütesiegel oder CEN) privat genutzten Geräte. Professionell genutzte Schirme (z.B. Schulung oder gewerbliche Tandemschirme) sind von der Garantie ausgenommen. Kein Garantiefall liegt vor bei: normalem Verschleiß ungenügender Wartung, unsachgemäßer Lagerung, Behandlung oder Berührung mit Chemikalien aller Art bei Unfall oder Hindernisberührung unsachgemäßem Umgang mit dem Gleitschirm Zum Wirksamwerden der Garantie sendet der Kunde die skywalk Garantiekarte innerhalb von 14 Tagen nach dem Erwerb des Gleitschirms an skywalk zurück oder füllt das entsprechende Onlineformular auf der skywalk homepage aus. Im Schadensfall ist der Gleitschirm auf eigene Kosten mit einer Kopie des Kaufvertrages an skywalk zu senden. Garantieentscheidungen und Garantiereparaturen werden ausschließlich von skywalk selbst durchgeführt. Liegt ein Garantiefall vor, entscheidet skywalk über Reparatur, Teilaustausch oder Ersatz des Produkts (eventuell gegen Abzug Neu für Alt). Die Garantie gilt zunächst 2 Jahre ab dem Kaufdatum des Schirms. Wird der Gleitschirm bei skywalk selbst oder einem von skywalk autorisierten Checkbetrieb (aktuelle Liste unter www.skywalk.org/dealer) bis 2 Jahre nach dem Kaufdatum einem qualifizierten 2 Jahrescheck nach den strengen skywalk Checkrichtlinien unterzogen, so verlängert sich die skywalk 2+2 Garantie um weitere 2 Jahre, also auf 4 Jahre. skywalk wird für jeden Einzelfall bestrebt sein, die für den Kunden optimale Lösung zu finden und daher auch ggf. im Kulanzweg noch weitergehende Leistungen bereitzustellen.

**Bitte auf skywalk.org
registrieren!**

SKYWALK 2+2 GUARANTEE

skywalk is offering its customers a brand new Guarantee. This Guarantee applies to all customers who have purchased a Glider after 01.07.2007, and further extends the current skywalk Guarantee. We are calling it the skywalk 2+2 Guarantee. The skywalk 2+2 Guarantee covers material or workmanship defects and applies to all authorized, (DHV seal of approval or CEN) privately used equipment. Professionally used gliders (for instance Flight Instruction School Gliders and commercially utilized Tandem gliders) are not included in the guarantee. No warranty claim is available for: Normal wear and tear insufficient maintenance, improper storage, treatment or handling with chemicals of any kind accidents or purposefully crashing into obstacles any behaviour which is purposefully damaging to the glider In order to activate the guarantee, the customer must send the completed skywalk Guarantee Card within 14 days back to skywalk, or simply complete the online formula on the skywalk homepage. In the case of damage the Glider should be sent to skywalk at the customers expense with a copy of the sales contract. Guarantee decisions and Guarantee repair will be carried out exclusively by skywalk. If a Guarantee is warranted, skywalk will carry out all decisions regarding repair, parts exchange or product replacement (possibly with discount- new for your old glider) The Guarantee is valid until 2 years after the date of purchase. If a complete Glider check is performed by skywalk or by a skywalk authorized check center (current listing under (www.skywalk.org/dealer)) according to rigorous skywalk guidelines within two years of purchase, then skywalk will extend the 2+2 Guarantee for two more years, so to speak, to a 4 year Guarantee. skywalk strives to find the optimal solution for each individual customer, and where applicable is prepared to undertake further actions as a gesture of goodwill to our customers.

**To take advantage of all the
skywalk 2+2 Guarantee please
register on www.skywalk.org**

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SAMAXA300