

OZONE

ZEOLITE 2
ZEOLITE 2 GT

Pilot Manual - EN



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THANK YOU

Thank you for choosing Ozone.

As a team of free flying enthusiasts, competitors and adventurers, Ozone's mission is to build paragliding equipment of the highest quality. We are constantly working together to develop cutting edge designs with class leading performance and maximum security. Wings are rigorously tested and developed by our team of experienced, discerning, world-class pilots to ensure they meet your expectations and demands. The products we offer you are the ones we fly ourselves, every day.

To ensure the highest levels of quality, we manufacture all of our products in our own production facility, our unique made-to-order system means that every glider is effectively tailor-made for you. Panels are individually laser cut from a single layer to ensure the highest precision and production consistency from one wing to the next. Your wing undergoes numerous rigorous quality control checks at each and every stage of the manufacturing process to guarantee it meets the highest industry standards.

It is essential that you read this manual before flying your wing for the first time. It includes important information regarding the use and care of your paraglider. For the latest updates, including all technical datas, please refer to the latest online version.

If you need any further information about any of our products please check flyozone.com or contact your local dealer, school or any of us here at Ozone.

Safe Flying!
Team Ozone

WARNING

- Paragliding is a potentially dangerous sport that can cause serious injury including bodily harm, paralysis and death. Flying an Ozone paraglider is undertaken with the full knowledge that paragliding involves such risks.
- As the owner of an Ozone paraglider you take exclusive responsibility for all risks associated with its use. Inappropriate use and or abuse of your equipment will increase these risks.
- Any liability claims resulting from use of this product towards the manufacturer, distributor or dealers are excluded.
- Be prepared to practice as much as you can - especially ground handling, as this is a critical aspect of paragliding. Poor control while on the ground is one of the most common causes of accidents.
- Be ready to continue your learning by attending advanced courses to follow the evolution of our sport, as techniques and materials keep improving.
- Use only certified paragliders, harnesses with protector and reserve parachutes that are free from modification, and use them only within their certified weight ranges. Please remember that flying a glider outside its certified configuration may jeopardise any insurance (e.g. liability, life etc) you have. It is your responsibility as the pilot to verify your insurance cover.
- Make sure you complete a thorough daily and preflight inspection of all of your equipment. Never attempt flying with unsuitable or damaged equipment.
- Always wear a helmet, gloves and suitable footwear.
- Pilots should have the appropriate level of license for their respective country and third party insurance.
- Make sure that you are physically and mentally healthy before flying.
- Choose the correct wing, harness and conditions for your level of experience.
- Pay special attention to the terrain you will be flying and the weather conditions before you launch. If you are unsure, do not fly and always add a large safety margin to all your decisions.
- NEVER fly your glider in rain, snow, strong wind, turbulent weather conditions or clouds.
- If you use good, safe judgment you will enjoy many years of paragliding.

YOUR ZEOLITE 2 / GT

The Zeolite 2 and Zeolite 2 GT are the production versions of the Zeolite 2 XD as used by our team pilots in the 2023 edition of the X-Alps race. The GT version shares exactly the same design as the Zeolite 2 but with top surface material changes for better longevity and more robust risers for easier daily use. The Zeolite 2 is a highly efficient tool designed for hike & fly, vol-biv and serious XC, offering competition level performance in an extremely light and compact package. It is easy to launch, easy to land in small/restricted areas and is both comfortable and intuitive to fly.

The profile has evolved to include the latest progress we've made in the areas of speed and handling. Principally, the benefits have come from a new cell opening position.

The aspect ratio is slightly increased, but still moderate for the category and very has proved to be comfortable in strong alpine conditions. The cell count is increased by 7, but a new refined structure provides the resulting performance increase without adding weight.

Passive safety and collapse behaviour has been improved via better chord wise line support at the rear of the wing. Despite the improved support, total line drag is less than its predecessor. A new spanwise architecture is made entirely of 3-cell bridges, similar to the Photon. This allows the best diagonal panel ratio for the amount of line attachments, which maintains light weight while increasing efficiency.

Compared to the Photon, the Zeolite 2 is a faster and more agile wing for more experienced pilots. The Zeolite 2's arc and winglet-free design yields the best possible thermalling experience while maintaining good collapse recovery behaviour, however the pilot workload in turbulent air is higher than the Photon. The Zeolite 2 requires more precise inputs in strong conditions as it is less pitch & roll stable.

Rucksack

A choice of optional rucksacks are available for your wing. We have a large range suited for many applications - from large competition bags to accommodate modern competition harnesses to small lightweight compact designs suited for lightweight harnesses and hike & fly. You can choose from any of them at the time of order, or decide to not take one and re-use your old rucksack.

Brake Lines

The brake line lengths have been set carefully during testing. We feel it is better to fly with a wrap (one turn of the handle around the hand), for greater turn authority in the thermals and better overall control. Shortening the brakes from the factory setting will affect the trailing edge at full speed, so we strongly recommend to not do so. As the wing ages, the brakes will naturally reduce in length, so it is possible that they will require lengthening at some stage. When adjusting the brake lengths please keep in mind the following:

- Ensure both main brake lines are of equal length.
- If a brake handle has been removed, check the main brake line is routed through the pulley when replacing the handle. Use a bowline knot.
- When the brakes are fully released in flight, the brake lines should be slack. There must be a minimum of around 10cm of free play before the brakes begin to deform the trailing edge and a substantial bow to guarantee no deformation of the trailing edge when accelerated.

Risers

The wing has been designed with 2 risers per side and a foot operated accelerator system, they do not feature trimmers. The A risers have a smaller riser holding the outermost AR3 line. As the wing ages, it is not unusual for the AR3 risers to reduce in length. For the GT version, adjustment can be made by releasing the loop found on the small maillon attached to the B riser. Replacement AR3 risers for the GT version can also be ordered separately from your Ozone dealer.

Later production versions feature adjustable B handles. See page 30.

IMPORTANT

In the unlikely event of a brake line snapping in flight, or a handle becoming detached, the glider can be flown by gently pulling the rear risers (B-risers) for directional control.

LIMITATIONS

Pilot Ability

The Zeolite 2 has been designed as a lightweight solo high performance XC wing suitable for experienced pilots only. It is NOT suitable for beginner or intermediate pilots, aerobic manoeuvres, training or tandem flights. To be flown safely, the Zeolite 2 requires a good level of piloting skills - pilots are expected to have the necessary active flying skills and quick reaction times to keep a high aspect ratio wing open in turbulent air. We also expect recent and on-going SIV experience.

Total Weight in flight

Each Ozone glider has been designed and certified for a defined weight range. We strongly recommend that you respect these weight ranges. If you are between sizes the following information may help you make a decision as to which size to buy:

- For the most precise and dynamic handling or if you generally fly in mountains and/or in strong conditions, you should choose to fly near the top part of the weight range.
- If you want a better sink rate, or if you generally fly in flat lands and/or in weaker conditions, you may choose to fly nearer the middle part of the weight range. Remember, you can always add ballast when conditions are stronger.
- It is not recommended to fly at the very bottom of the weight range.

SIV & Collapse lines

As a lightweight thoroughbred high performance machine, we do not recommend to induce collapses with the Zeolite 2 during SIV training. It was certified with the use of collapse lines, therefore induced collapses cannot be performed correctly, or safely without them. We strongly recommend to not perform collapses, it is better to work on your stall control. If you must, ensure the collapse lines are correctly mounted.

Collapse lines are available to order from your Ozone dealer. Ensure you fully understand the correct and safe use of this equipment before attempting SIV and only do so under expert tuition over water with all the necessary safety precautions in place.

IMPORTANT

The Zeolite 2 was certified with the use of collapse lines, therefore induced collapses cannot be performed correctly, or safely without them.

Towing

The Zeolite 2 may be tow-launched. It is the pilot's responsibility to use suitable harness attachments and release mechanisms and to ensure that they are correctly trained on the equipment and system employed. All tow pilots should be qualified to tow, use a qualified tow operator with proper, certified equipment, and make sure all towing regulations are observed. When towing you must be certain that the paraglider is completely over your head before you start. In each case the maximum tow force needs to correspond to the body weight of the pilot.

Flying in the Rain

Modern wings are susceptible to rain and moisture, flying with a wet wing can result in the loss of normal flight.

Due to the efficient, wrinkle-free design of the sail, water tends to bead on the leading edge causing flow separation. Flow separation will make the wing more prone to entering inadvertent parachutal stalls, so flying in the rain, or with a wet wing (e.g early morning dew) should be avoided at all costs.

If you are accidentally caught-out in a rain shower, it is best to land immediately. If your wing becomes wet in the air it is advised to maintain accelerated flight using the speed bar, even during the final approach. DO NOT use big ears as a descent technique, big ears increases drag, and with a wet wing this will further increase the chances of a parachutal stall occurring. Instead, lose height with gentle 360's and maintain your air speed at all times. If your wing enters parachutal stall when wet, immediately accelerate the wing with the speed bar to regain airspeed.

IMPORTANT
**Never fly in the rain or
with a wet glider.**

PREPARATION

Accelerator System

Attach the speed system lines to the accelerator system on the risers with the Brummel hooks. Alternatively they can be bypassed with the speed system attached directly to the riser accelerator lines using a larks foot.

There must be enough slack in the speed system to ensure the A risers are not inadvertently pulled during normal trim speed flight, but not so long that it is impossible to use the full speed range of the glider.

With the Zeolite 2 GT, maximum speed is achieved when the A/B limiter comes under tension. Pushing the speed system beyond this point will not increase the speed.

The Zeolite 2 risers do not have an AB limiter, full speed is achieved when the pulleys are fully overlapped.

Once set up, test the full range of the accelerator in calm flying conditions and ensure that both risers are pulled evenly during operation. Fine-tuning can be completed when you are back on the ground.

Harness

It is important to set up your harness correctly before flying the wing. Make sure to spend time adjusting your harness's different settings until you are completely comfortable. Depending on the size of the wing, we recommend a chest strap setting between 42cm and 48cm (measured between the centre of the hang points). The XS & S sizes were certified with a chest strap set to around 40-42cm, the MS/ML between 44-46cm, and the L between 46-48cm. Do not fly with a chest strap setting too tight (below 42cm) or too wide (above 48cm) as this will affect the behaviour and feedback of the wing.

The wing has been certified with a standard seated harness. Using a pod harness in a laid back supine position does not invalidate the certification but it may have an influence on the behaviour of the wing. Pod harnesses increase the risk of twists occurring during a large asymmetric collapse.

IMPORTANT

Using the accelerator decreases the angle of attack and makes the wing more prone to collapse, therefore using the accelerator near the ground or in turbulent conditions should be avoided.

Wing

To prepare the wing, lay it out on the top surface and perform a thorough daily check. You should inspect the top and bottom surfaces for any rips and tears or any other obvious signs of damage. Lay out the lines one side at a time, hold up the risers and starting with the brake lines, pull all lines clear. Repeat with the B and A lines, including the upper C's laying the checked lines on top of the previous set. Make sure no lines are tangled, knotted or snagged. Mirror the process on the other side and then inspect the lines for any visual damage.

Inspect the risers for any signs of obvious damage or wear. Ensure they are not twisted, pay particular attention to the AR3 risers as these are easily twisted.

Take-off checklist:

1. Check reserve parachute - pin is in and handle secure
2. Helmet on and fastened
3. All harness buckles closed - check leg-loops again
4. Risers connected to the harness correctly with carabiners and maillons tight
5. Accelerator system connected
6. Holding the A risers and your brake handles correctly
7. Leading edge open
8. Aligned in the middle of the wing and directly into wind
9. Airspace and visibility clear

BASIC FLIGHT TECHNIQUES

Launching

Your Zeolite 2 will launch with either the forward or reverse technique. The wing should be laid out in a pronounced arc, with the centre of the wing higher than the tips.

Forward Launch - Nil to Light winds

When the wind is favourable, whilst gently holding the central A risers move forward positively, your lines should become tight within one or two steps and the Zeolite 2 will immediately start to inflate. You should maintain a constant pressure on the risers until the wing is overhead. Do not pull down or push the risers forward excessively, or the leading edge will deform and possibly collapse.

Move smoothly throughout the entire launch, do not rush or snatch at it. Once above your head look up and check the canopy is fully inflated and there are no knots in the lines before committing yourself to the launch run.

Reverse Launch - Light to Strong Winds

Lay out your wing as you would for the forward launch. Turn to face it by passing one entire set of risers over your head as you turn. Inflate the glider using your body weight and the A-risers. Once the wing is overhead, release the risers, brake gently if necessary, turn and launch. In stronger winds, be prepared to take a few steps towards the glider as it inflates. This will take some of the energy out of the wing and it will be less likely to overfly you or pick you off your feet.

Speed to Fly

The Zeolite 2 achieves its best glide in still air at trim speed. To maximise glide ratio when gliding downwind or when the air is not excessively sinking fly at trim speed or slightly slower by applying gentle pressure on the B risers. To penetrate better in headwinds and improve the glide ratio in sinking air, crosswinds or headwinds you should fly faster than trim speed using the accelerator. Using up to half bar does not degrade the glide angle or stability significantly and will improve your efficiency.

IMPORTANT

Never take off with a glider that is not fully inflated or if you are not in control of the pitch/roll of your wing.

At full speed the Zeolite 2 is very fast, we recommend to only fly at full speed when absolutely necessary, such as when on final glide during a competition or when flying towards a strong thermal. 3/4 speed should suffice in most normal XC conditions.

Always pilot the wing with the B risers whilst accelerated, never apply the brakes, not only is it inefficient, it also makes the wing more prone to a collapse. Do not fly full speed close to the ground or in turbulent conditions.

By applying approximately 20cm of brakes the Zeolite 2 will achieve its Minimum-Sink rate; this is the speed to use for thermalling and ridge soaring.

Turning

To familiarize yourself with the Zeolite 2 your first turns should be gradual and progressive. To make efficient and coordinated turns, first check the airspace is clear and then lean in the direction you want to go. The first input for directional change should be weight-shift, followed by a smooth application of the brake until the desired bank angle is achieved. To regulate the speed and radius of the turn, coordinate your weight shift and use both the outer and inner brake.

Active Flying

To minimize the likelihood of suffering collapses in turbulent conditions, it is essential to fly the wing actively. The aim of active flying is to maintain a constant pressure and pitch control of the wing. If you feel a reduction or loss of pressure quickly apply the brakes until you feel normal pressure again. Once you have normal pressure, raise the hands back to the original position. Avoid flying with continuous amounts of deep brake in rough air as you could inadvertently stall the wing - always consider your airspeed. These subtle adjustments will help keep the glider flying smoothly directly above you and dramatically reduce the likelihood of a collapse. If the glider pitches in front of you, use the brakes to slow it down. Equally, if the glider drops behind you, release the brakes to allow it to speed up, but be ready to anticipate the following pitch forward. The goal is to maintain the wing directly overhead with a constant level of internal pressure.

IMPORTANT

Never apply the brakes whilst using the speed system - it makes the wing more prone to collapse.

IMPORTANT

Never initiate a turn at minimum speed (i.e. with full brakes on) as you could risk entering a spin.

When the conditions are turbulent, be more active and anticipate the movements of your wing, always be aware of your altitude and do not over-react.

We strongly advise you to keep hold of your brakes at all times and to not fly in turbulent conditions.

Active B Riser control

When gliding, whether at trim speed or in accelerated flight, we recommend to pilot the wing using the B risers. This gives an improved feel and control over the angle of attack enabling you to fly actively without using the brakes (which causes drag and pitch movements). The direct feel allows you to stop collapses before they happen and maintain higher speeds and higher levels of efficiency.

To fly with the B risers, keep hold of your brake handles (remove any wraps) and take hold of the wooden handles located on the B risers. Now you have direct control of the AofA; by pulling the B risers down you increase the AofA, releasing pressure reduces AofA and returns the wing to trim speed. With B riser control you can fly actively through turbulence, collapses can be stopped or at least reduced with correct inputs due to the sudden increase in AofA. If you feel the nose of the wing lose internal pressure, or you see a crease appear between the A and B line attachment points on the sail you can quickly input the B risers to stop the collapse occurring. The amount of pressure and size of the input is dependent on the amount of turbulence, or loss of pressure, but always avoid long deep inputs to avoid inducing large pitch movements or inadvertent stalls.

During accelerated flight, the added control of active B riser flying further increases the efficiency and stability of the wing. Whilst accelerated the act of pulling the B risers is exactly the same as releasing the speed bar. This translates to direct control of speed, AofA, and internal pressure in your hands. Coupled with active speed bar control, adjustments can be made with the B risers to optimise your speed and internal pressure through turbulence helping you to maintain a higher average speed whilst reducing the likelihood of unexpected

IMPORTANT

Always keep hold of your brakes. Do not fly in turbulent conditions

collapses. When pushing the bar, if the air becomes slightly turbulent apply some pressure to the B risers, when the air becomes less turbulent again you can reduce (or release) pressure on the B risers for extra speed. Flying fast and efficiently in normal air requires constant attention to the wing, it is necessary to combine B riser inputs and speed bar adjustments to keep the wing open and pressured.

This control method is suitable for gliding in good 'normal' air without huge levels of turbulence, it does not replace proper active flying with the brakes in strong turbulent conditions. If you are unsure about the air return the glider to trim speed, release the B risers and fly the glider actively with the brakes. If the air becomes very turbulent we recommend to use the brakes instead of the B risers.

Landing

The Zeolite 2 shows no unusual landing characteristics but as a reminder, here are some tips:

- Always set up for your landing early, give yourself plenty of options and a safe margin for error.
- Once below 30 metres avoid turning tightly as the glider will have to dive to accelerate back to normal flight. If you are at low altitude, or if you hit sink, this could mean you hit the ground harder than necessary.
- Lean forward out of your harness before the actual landing (especially if it's turbulent), with your weight leaning forward against the chest strap, and make sure your legs are ready for the landing and a possible PLF (parachute landing fall).
- Allow the glider to fly at hands up (trim) speed for your final descent until you are around 1 metre above the ground (in windy or turbulent conditions you must fly the glider actively all the way). Apply the brakes slowly and progressively to slow the glider down until groundspeed has been reduced to a minimum and you are able to step onto the ground.
- In light winds/zero wind you need a strong, long and progressive flare to bleed off all your excess ground speed. In strong winds your forward speed is already low so you are flaring only to soften the landing. A strong flare may result in the glider climbing upwards and backwards quickly, leaving you in a vulnerable position.

IMPORTANT
Always take hold of the B risers during accelerated flight.

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- If the glider does begin to climb, ease off the brakes (10-20cm) - do not put your hands up all the way - then flare again, but more gently this time. Keep the brakes at mid speed, stand up, be ready to run and make sure you brake fully as you arrive on the ground.
 - Choose the appropriate approach style in function of the landing area and the conditions.
 - In strong winds you need to turn towards the glider the second your feet touch the ground. Once facing the wing pull smoothly and symmetrically down on the brakes to stall the wing. If the glider pulls you, run toward it.
 - If the wind is very strong, and you feel you might be dragged, or lifted again, stall the glider with the B risers. This stalls the wing in a very quick and controllable way and will drag you less than if you use the brakes.
 - Always land heading into wind!

RAPID DESCENT TECHNIQUES

Big Ears

Folding in the wing tips increases the sink rate without radically changing the airspeed. Although mostly pointless with this type of wing, big ears can be useful for staying out of cloud or descending through the lift band of the hill, for example when top landing. As a means of descent though, it is better to find some sinking air and make steep turns.

To pull big ears, keep hold of your brakes and pull down on the AR3 line on each side until the wing tips fold under. The size of the big ears can be adjusted by pulling more line, or reaching higher up the line.

It is also possible to pull big ears with the 'B3' technique. To do so, keep hold of your brakes and pull BR3 lines on each side until the wing tips peel backwards.

Directional control while using the ears should be with weight shift.

Once the ears are engaged you can further increase the sink rate by pushing on the accelerator bar. Whilst it is possible to enter a spiral dive whilst holding in the ears, the high forces applied to the lower lines could exceed the breaking strain, leading to equipment failure!

Ozone strongly recommend to NOT perform Spiral Dives with Big Ears engaged.

To reopen the ears, release the lines at the same time. To help reinflation, if necessary brake gently one side at a time until tips open and regain pressure. Avoid deep symmetric applications of the brake as this could accidently induce parachutal or full stalls.

B-Line Stall

Traditional B-line stalls are not possible with the Zeolite 2. Prolonged deep input on the B risers will result in a full stall. Do not do it.

DO NOT perform spiral dives with the big ears engaged.

Spiral Dives

The spiral dive is the most effective form of rapid descent. To initiate a spiral, look and lean in to the direction you want to turn, then smoothly and progressively pull down on the inside brake. The Zeolite 2 will first turn almost 360 degrees before it drops into the spiral. Once in the spiral you should re-centre your weight shift and apply a little outside brake to keep the outer wing tip pressured and inflated.

Safe descent rates of more than 10m/s are possible, but at these rates the associated high speeds and g-forces can be disorientating. Always pay particular attention to your altitude.

To exit the spiral dive, smoothly weight shift in the opposite direction of the spiral and smoothly release the inside brake whilst applying the outside brake. It is possible for the Zeolite 2 to remain neutral in a spiral dive, always be prepared to pilot the wing out of a spiral dive. To do so, use opposite weight shift and smoothly apply enough outside brake until the wing starts to decelerate, the glider will then start to resume normal flight. Recovering from a spiral with hard or quick opposite inputs will result in an aggressive climb and surge and is not recommended. Always be prepared to manage the energy, allow it to continue to turn until enough energy is lost for it to return to level flight without an excessive climb and surge.

Never perform spiral dives close to the ground.

Remember the spiral dive should be used in emergency situations only, excessive use of the spiral may result in an asymmetry in the lines and will put unnecessary strain on the canopy reducing the performance.

IMPORTANT

Always be prepared to pilot the wing out of a spiral dive. Use opposite weight shift and apply enough outside brake to stop the wing from spiralling.

INCIDENTS IN FLIGHT

Deflations

No pilot or wing is immune to deflations, however correct active flying will reduce the chances significantly.

Asymmetric collapses should be controlled by first weight shifting away from the collapse, fly away from the ground, obstacles and other pilots. Apply enough opposite brake to control your direction, this action alone will be enough to start the recovery process. In your efforts to stop the glider turning towards the collapse be very careful not to stall the flying side. If you are unable to stop the glider turning without exceeding the stall point, allow the glider to turn during the reinflation process.

If the deflation does not spontaneously reinflate make a deep, smooth, progressive input on the deflated side. Pumping too short and fast will not reinflate the wing and pumping too slow might take the glider close to, or beyond, the stall point.

Symmetric front collapses normally reinflate without pilot input, however 15 to 20cm of brake applied symmetrically, and immediately will speed the process. After a symmetric collapse always consider your airspeed. Make sure the glider is not in parachutal stall before making any further inputs.

If your Zeolite 2 collapses in accelerated flight, immediately release the accelerator and manage the collapse using the methods described above.

Cravats

Cravats are when the wing tips become trapped within the lines and can result in the wing entering a spiral dive if not addressed correctly. The first action should be to stabilise the glider, i.e get control of your direction using opposite weight shift and brake input. Large cravats may require the wing to continue turning to avoid stalling the flying side. Once you have control of the spiral use strong deep pumps of the brake on the cravated side to try to free the tips. When doing so it is important to lean away from the cravat otherwise you risk spinning or deepening the spiral. The aim is to empty the air out of the wing tip, without

IMPORTANT

Never apply the brakes whilst using the speed system - it makes the wing more prone to collapse.



spinning. Correctly done, this action will clear the cravat quickly, it is the most efficient and effective method. You can also try collapsing the wing tip by pulling on the AR3 line, this can help free small stubborn wing tip cravats. Whichever method you use, be careful with any brake inputs to not stall the opposite side.

If it is a very large cravat and the above options have not worked then a full stall is the next option. Only attempt this if you have enough altitude.

Remember if the rotation is accelerating and you are unable to control it, throw your reserve parachute immediately whilst you still have enough altitude.

Deep Stall / Parachutal Stall

It is possible for gliders to enter a parachutal stall, this normally occurs when flying with too much brake, after a front collapse or when flying with a wet wing. If the wing is out of trim this can also be a contributing factor.

If the wing enters a parachutal stall, your first reaction should be to fully raise both hands. This allows the glider to return to normal flight but if nothing happens after a few seconds, apply the speed bar to encourage the wing to regain normal flight. Ensure the glider has returned to normal flight (check your airspeed) before you use the brakes again.

Do not fly in rain, doing so significantly increases the likelihood of parachutal stalls occurring. To reduce the chance of stalling in rain avoid using deep brake movements or big ears. Find a safe area to land and using the speed bar, maintain a good airspeed at all times.

IMPORTANT
Never fly in the rain or with a wet glider.

IMPORTANT
Only a few cms of input from your brakes can maintain your wing in the stall. Always release your wraps if you have taken them!

CARE AND MAINTENANCE

Packing

To prolong the life of your wing and to keep the plastic reinforcements in the best possible condition it is very important to pack the wing carefully. We recommend to use the concertina packing method exactly as shown so that all of the cells rest alongside each other and the plastic reinforcements are not unnecessarily bent. It is also good practice to use the supplied inflatable folding pillow to reduce the angle of the leading edge fold, this will help to preserve the plastic reinforcements. The folding pillow can be deflated and carried in your harness. Using the Ozone Concerto pack will help preserve the life of the wing and aid with the speed and ease of packing.

Step 1. Lay the mushroomed wing on the ground or on the Concerto pack if you are using one. It is best to start from the mushroomed position as this reduces the dragging of the leading edge across the ground.



Step 2. Group leading edge (LE) plastic reinforcements with the A tabs roughly aligned. Make sure the plastic reinforcements lay side by side. Note the glider is NOT folded in half; it is folded as a complete concertina from wing tip to wing tip.

Step 3. Group together the middle and the trailing edge (TE) of the wing by sorting the concertina folds near the B and C tabs.



Step 4. Once the LE and TE of the wing have been sorted, turn the whole wing on its side.



If using the Concerto pack go to Step 7.

Step 5. Place the Folding Pillow below the LE - at the point of the first fold. The pillow reduces the angle of the fold and helps preserve the plastics. Next fold the TE over the LE being careful to not fold with tight angles.



Step 6. Now place the folded wing into the stuff bag.



Step 7. If using a Concerto pack, with the wing laid on its side carefully close the zip without trapping any material.



Step 8. Lay the Folding Pillow in place and make the fold of the LE around it. Use 2 folds.



IMPORTANT: Do NOT lay the wing flat on the ground before packing the glider, this will cause abrasion damage to the top surface as you pull the glider towards the middle. ALWAYS pack from a mushroom or lift the wing off the ground when gathering the wing and grouping the leading edge.



IMPORTANT: Do not fold the glider in the centre, you will bend the plastics, instead pack the wing with a full concertina method from tip to tip.





Caring Tips

Careless handling damages many paragliders. Here are some things to avoid in order to prolong the life of your aircraft:

- DO NOT drag your wing along the ground or any hard surface as this is guaranteed to damage to the sailcloth. Lift it up and carry it clear of the ground.
- DO NOT try to open your wing in strong winds without untangling the lines first - this puts unnecessary strain on the lines.
- DO NOT walk on the wing or lines.
- DO NOT repeatedly inflate the glider and then allow it to crash back down. Try to keep this movement as smooth as possible by moving towards the glider as it comes down.
- DO NOT slam your glider down on the ground leading edge first. The impact puts great strain on the wing and stitching and can even explode cells.
- FLYING in salty air, in areas with abrasive surfaces (sand, rocks etc.) and ground handling in strong winds will accelerate the aging process.
- DO NOT fly in the rain or expose the wing to moisture.
- DO NOT expose the wing to unnecessary UV or high levels of heat. Leaving the wing sitting in the sun or allowing it to get hot (e.g in the back of a car) will significantly increase the chances of premature ageing.
- Change your main brake lines if they are damaged.
- When ground handling be careful to not saw the brake lines against the risers or main lines. The abrasion caused by a sawing motion can damage the main lines and the risers. If you notice any signs of abrasion, especially to the lines, make sure to replace them. It is important to modify your ground handling technique to stop any future damage.
- Your wing has an opening on the wing tips called the 'Butt hole'. The Butt hole makes it easy to empty any sand, leaves, rocks, mobile phones etc that may have accumulated in the wing.

It is recommended that you regularly CHECK your wing, especially after a heavy period of use, after an incident or after a long period of storage.

Storage and Transport

Your wing should be dry before being packed away. Always store all your flying equipment in a cool, dry room, protected from direct heat and high levels of humidity. Moisture, heat and humidity are the worst elements for damaging your glider. Storing a damp glider in your car in the sun will lead to premature ageing of the cloth and should be avoided at all costs.

Take care that no insects get packed away with the wing. They may eat the cloth and make holes in a bid to escape. They can also leave acidic deposits if they die and decompose.

Transport the wing in the supplied bags and keep away from any oils, paints, chemicals and detergents

Cleaning

Any kind of wiping/scratching can damage the coating of the cloth. We recommend to not clean the wing, but if you do have to, use a soft cloth dampened with a small amount of water and use gentle movements across the surface. If you land in salt water, you must first rinse it thoroughly with clean fresh water. Dry the wing completely, preferably out of the sun, in the wind. Never use a hair dryer or other sources of direct heat.

Wing Repairs

Always let a registered dealer, professional repair centre or the manufacturer carry out any major or complex repairs, especially those near seam margins.

If you damage the sail:

If the rip is small and in the middle of a panel however you can fix it yourself. You'll find all the materials in the repair kit you need. The fabric can be simply mended with the sticky rip stop/spinnaker tape. When cutting out the patches allow ample overlap of the tear and make sure both sides are different sizes. Make sure to round off each corner of the patches.

If you damage a line:

Any line that is visually damaged **MUST** be replaced. Lines can be ordered from your local Ozone dealer, alternatively use a reputable paragliding service centre to make the replacement lines.

IMPORTANT

Never pack away or store your glider wet.

IMPORTANT

Never use detergent or chemical cleaners.



It is important that replacement lines are made from the correct materials and diameters. You should check lengths against their counterpart on the other side of the wing to make ensure symmetry. Once the line has been replaced, inflate and check the glider before flying.

Maintenance Checks

Your wing should be checked regularly to ensure airworthiness. It is important to perform regular inspections to know the exact condition of all of the components of your wing. These inspections must be carried out by a qualified professional and to follow the guidelines set out here: <http://downloads.flyozone.com>

These guidelines are based on the PMA standard for inspecting wings and form the minimum values expected.

To ensure the correct trim, the lines should be measured and adjusted to the published values as necessary. Loops in the B lines and the AR3 risers are in place to make the trimming process easier. The overall line lengths (riser lines + mid lines + upper lines) has to be checked under 5Kgs of tension and the difference between the measured lengths and the published lengths should not exceed +/- 10mm. Risers should be checked for signs of wear or abrasion. Differences to manual lengths should not exceed +/-5mm.

The sail cloth and the lines do not age in the same way or at the same rate so it is expected to change the line set at least once during the life of the wing.

You alone are responsible for your flying equipment and your safety depends on it. Take care of your equipment and have it regularly inspected. Changes in inflation/ground handling/flying behaviour indicates the gliders aging, if you notice any changes or you suspect any damage you should have the wing serviced before flying again.

IMPORTANT
Take care of your glider and make sure you have it checked and serviced according to the schedule.



Modifications

Your Ozone Zeolite 2 was designed and trimmed to give the optimum balance of performance, handling and safety. Any modification means the glider loses its certification and will be more difficult to fly. For these reasons, we strongly recommend that you do not modify your glider in any way.

IMPORTANT
**Do not modify your
wing in any way.**

OZONE QUALITY GUARANTEE

Ozone guarantees its products against manufacturing defects or faults, we will repair or replace any defective product free of charge. This does not include accidental damage or damage caused by normal wear and tear.

Ozone and its distributors provide the highest quality after sales service, do not hesitate to contact your local Ozone dealer for the latest most up to date information on our products. If you have an issue please contact the Ozone dealer where you purchased the product from, we will do our best to get you back in the air as fast as possible. Minor damage can normally be repaired locally, any serious damage can be rectified by the factory.

We always welcome customer feedback, it is how we improve our products - our contact details can be found on the website.

Summary

Safety is paramount in our sport. To be safe, we must be trained, practised and alert to the dangers around us. To achieve this we must fly as regularly as we can, ground handle as much as possible and take a continuous interest in every aspect of paragliding. If you are lacking in any of these areas you will be exposing yourself to more danger than is necessary.

Respect the environment and look after your flying sites.

If you need to dispose the wing, do so in an environmentally responsible manner. Do not dispose of it with the normal household waste.

Finally, RESPECT the weather, it has more power than you can ever imagine. Understand what conditions are right for your level of flying and stay within that window.

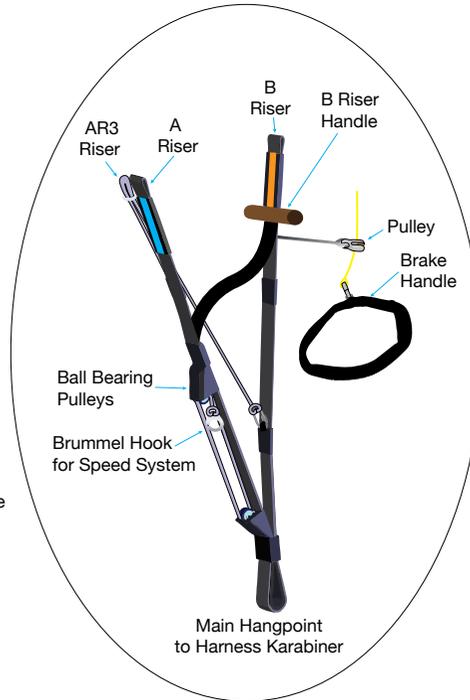
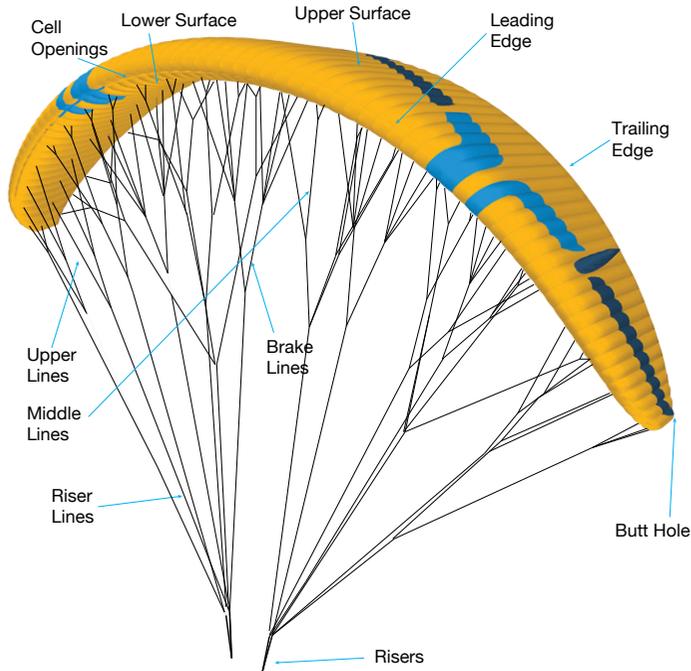
Happy flying & enjoy your Zeolite 2 / Zeolite 2 GT.

Team Ozone

TECHNICAL SPECIFICATIONS

	XS	S	MS	ML	L
Cells	71	71	71	71	71
Projected Area (m ²)	15.9	17.2	18.5	19.8	21.1
Flat Area (m ²)	18.9	20.4	22.0	23.5	25.1
Projected Span (m)	8.9	9.3	9.6	9.9	10.3
Flat Span (m)	11.3	11.8	12.2	12.6	13.1
Projected Aspect Ratio	5	5.0	5.0	5	5
Flat Aspect Ratio	6.8	6.8	6.8	6.8	6.8
Root Chord (m)	2.09	2.17	2.26	2.33	2.41
Weight (Kg) Zeolite 2	2.72	2.88	3.03	3.16	na
Weight (Kg) Zeolite 2 GT	3.37	3.53	3.75	3.91	4.19
Max Control Travel (cm)	55	55	60	65	70
In-Flight Weight Range	60-75	65-85	80-95	90-105	100-115
Certification EN/LTF	D	D	D	D	D

TECHNICAL DRAWINGS



Non Accelerated	
A	540mm
A ³	535mm
B	530mm

Accelerator Range (fully overlapped)	
L - ML	175mm
MS - S	165mm
XS	155mm

ADJUSTABLE B HANDLES

The height of the B handles on the rear risers can be adjusted to taste. There are several positions available to suite most body/arm lengths and hangpoint heights. If you lower the B handle height you must lengthen the brake line lengths by the same amount accordingly, however if you raise the handles from the factory setting DO NOT shorten the brake lengths.

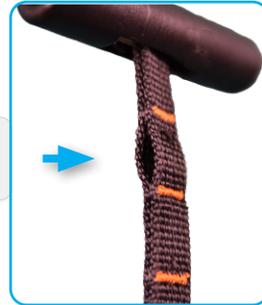
To change the height from the factory position, pull the handle upwards sharply to disengage the retaining bar.



The bar can then be removed from the slot between the orange stitch lines.



Choose a new position and replace the locking bar centrally in the slot. The wedge-shaped thinner edge of the bar should be orientated to the top.



Pull the handle down so that it engages the bar properly. You will hear and feel a click once it is locked in place correctly.



IMPORTANT

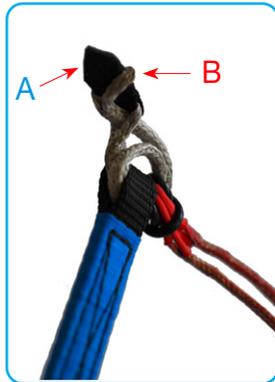
If you lower the B handle height you must lengthen the brake line lengths by the same amount. However if you raise the handles from the factory setting DO NOT shorten the brake lengths accordingly.

LINK LITES

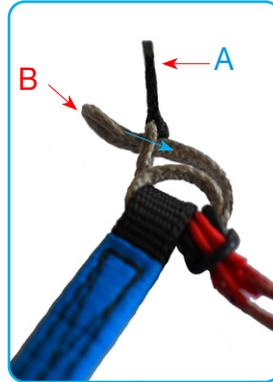
Your wing uses lightweight Amsteel Dyneema Link Lite connectors, they replace standard maillons and have a breaking load in excess of 1000kgs. To avoid disappointment, injury or death, when changing lines it is vitally important to connect the Link Lites correctly.

Please follow these instructions carefully, if you have ANY doubts please consult with your Ozone dealer.

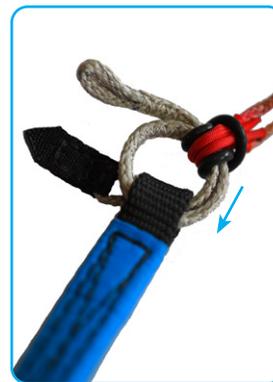
Removal



First loosen the **B** loop before feeding the **A** tab through the **B** loop.



Pull the **B** loop through the **A** loop, the lines and the rubber ring.



Continue pulling the **B** loop through the risers/lines/ring for the second turn.

Re-attaching the Link Lite is the reverse of the above procedure.

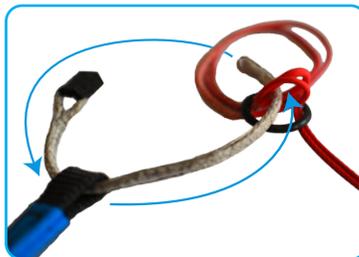
Replacement



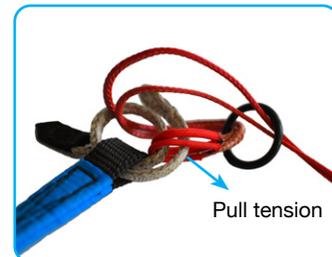
Ensure the lines are in the correct order and not overlapped, then install the rubber ring as shown.



The loops of the lines must come back through the rubber ring as shown.



Feed the **B** loop through the riser, then through the line loops, passing behind the lines before going through the riser for the second time. Tension the Link Lite so it is approximately the correct dimension, the **A** tab should be close to the risers.



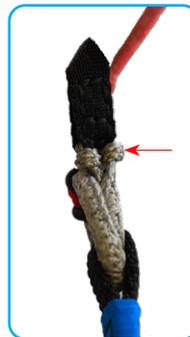
Feed the **B** loop through the line loops for the second time following the same path as before. Once the **B** loop is through the second time and in the correct position pull tension on the lines to force the rubber ring into the correct position.



At this stage, make sure the lines and rubber ring are seated neatly on the Link Lites with no twists or overlapping loops.



Close the Link Lites by feeding the **B** loop through the **A** loop before passing the **A** tab through the **B** loop.

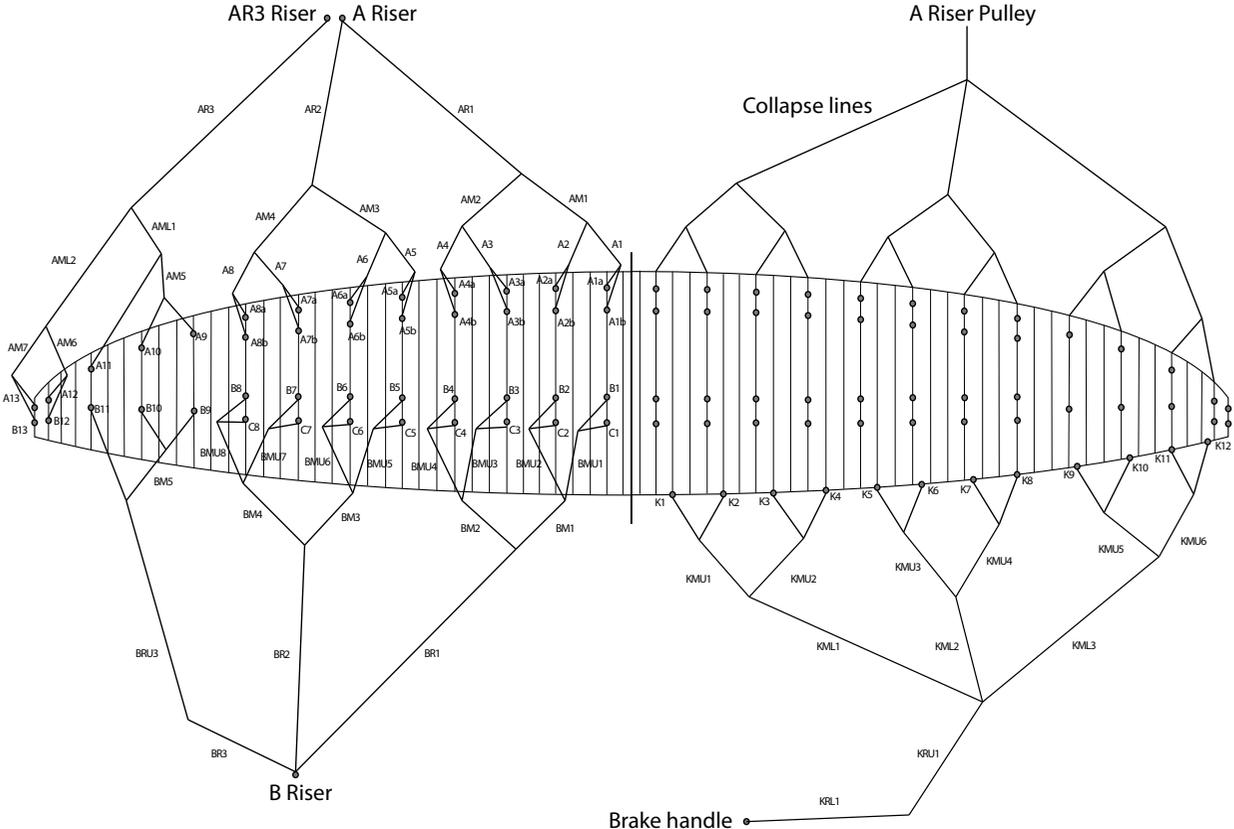


Double check the Link Lite is closed correctly, it should look exactly as shown.

WARNING:
Incorrect mounting of the Link Lites will reduce the working strength and possibly cause complete failure resulting in serious injury or death. Ensure that they are mounted with **2 turns** and closed correctly.

LINE DIAGRAM

Individual and linked line lengths can be found online.



MATERIALS

All Ozone gliders are made from the highest quality materials available.

Zeolite 2

Cloth

Upper Surface

Dominico N10D

Lower Surface

Dominico N10D

Internal Ribs

Porcher 70000 E29 (hard)

Leading Edge Reinforcement

Plastic

Main Line Set

Riser Lines

Edelrid 8001

Middle Lines

Edelrid 8001 - Edelrid 9200

Upper Lines

Edelrid 8001 - Edelrid 9200

Risers and hardware

Shackles

Link Lites

Riser webbing

07mm Dyneema webbing

Pulleys

Ronstan ball bearing

Zeolite 2 GT

Cloth

Upper Surface

Dominico N20D / N10D

Lower Surface

Dominico N10D

Internal Ribs

Porcher 9017E29 / Dominico 32D FM

Leading Edge Reinforcement

Plastic

Main Line Set

Riser Lines

Edelrid 8001

Middle Lines

Edelrid 8001 - Edelrid 9200

Upper Lines

Edelrid 8001 - Edelrid 9200

Risers and hardware

Shackles

Link Lites

Riser webbing

12mm Aramid webbing

Pulleys

Ronstan ball bearing

INSPIRED BY NATURE, *DRIVEN* BY THE ELEMENTS

FLYOZONE.COM

OZONE

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