MANUAL





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ADAM 2 MOTOR Owner's Manual

Solo paraglider for free-flight and paramotor use: EN / LTF A

Welcome to Bruce Goldsmith Design

BGD is a world leader in the design and production of paragliders. For many years Bruce Goldsmith and his team have been developing products with world-beating performance for pilots who want the best. We apply our competitive knowledge to design top quality products that combine the highest performance with the safe handling our customers value and respect. BGD pilots appreciate our quality and reliability. BGD's world-class status is based on the skills and expertise we have developed in combining aerodynamic design with cloth and materials technology. All BGD products are developed and made with the same skill and attention to good design that are synonymous with the ultimate performance and precision required by paragliders.

Congratulations on your purchase of the BGD ADAM 2 MOTOR

The ADAM 2 MOTOR is a safe and fun wing, suitable for beginners and perfectly adapted for paramotoring. It is a hybrid wing, which means it can be used for free flight and for paramotoring. This manual refers to the ADAM 2 MOTOR, which is delivered with paramotor risers with trimmers. The only difference between the ADAM 2 and the ADAM 2 MOTOR is the risers.

In order to ensure your wing retains its original flight characteristics, it should be properly looked after. Please read this manual from the first to the last chapter to ensure you get the best out of it.

Do not hesitate to contact your nearest BGD dealer if you need advice or information about your paraglider, or any replacement parts.

Introduction

The ADAM 2 MOTOR is suitable for beginners. It can be flown with or without a motor.

The MOTOR version is supplied with paramotor risers which have trimmers. The EN/LTF A certification for free flight is valid only when it is flown within the 'in-flight weight range for free flight' with the trimmers in their fully closed (slow) position. If the trimmers are at any other setting, it is no longer EN / LTF certified.

When using the paramotor risers, the brake line lengths should be adjusted to suit the hangpoints (high, low, trike). See <u>Preparation</u>.

We recommend setting the trimmers to position 2 for take-off.

Safety Notes

Your paraglider must not:

- 1. Be flown outside the certified weight range.
- 2. Have its trim speed adjusted by changing the length of risers or lines.
- 3. Be flown in strong turbulence, violent winds, rain or snow. A wet canopy is much more likely to enter a parachutal or full stall. If you fly into a rain shower, you should immediately go and land somewhere safe, steering the canopy gently and avoiding manoeuvres such as Big Ears which can make it more likely to stall.
- 4. Be towed with a tow-line tension in excess of 200kg.

- 5. Do not perform spiral dives with big ears or asymmetric collapses. The high G loading on fewer lines could overload and break the lines.
- 6. When using the PPG riser-set, only the brake line lengths should be adjusted. No other changes or modifications should be performed without first consulting your BGD dealer, as they may invalidate the warranty or certification.
- 7. Brakes should not be used when trimmers and speed bar are both applied. It is safe to use the brakes with the trimmers (and no speed bar) at all trimmer settings.

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Trimmers + brakes = OK
Trimmers + speed bar + brakes - No!
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Warranty

Information about the BGD warranty can be found on the Warranty page of our website. In order to benefit from it, you must complete the <u>warranty registration form on the website</u> (www.flybgd.com)

It is your dealer's responsibility to test fly the paraglider before you receive it, to check the trim settings are correct. Please check that this has been completed. The waranty may be void if the test flight has not been completed by the dealer.

Preparation

Riser set-up

The risers on the ADAM 2 Motor can be adapted to the height of the **hangpoints** of your paramotor frame/harness. The risers are delivered ready for use with a low-hanpoint machine. For a paramotor with high hangpoints you will need to move the brake leg to the lower position, as shown:

- 1. Take the brake lines off the handles they are knotted to.
- 2. Remove the brake leg which is attached to the upper webbing loop on the D riser and move it to the lower position on the D riser.
- 3. Tie the brake handle back on, and lengthen the brake lines by the distance between the loops (20cm). If they are not long enough, you will either need to get longer lines, or the line can be extended at the top where it does not run though any rings or pulleys.

Brake Line lengths

There should be enough slack in the brake lines so that in flight with 'hands up' the glider's trailing edge is not deflected either at trim speed or accelerated. The brakes have a knot at the handle so the pilot can check the brakes are long enough and adjust them if necessary.

For free-flight gliders 5-10cm slack is usual; for paramotor wings it can be as much as 15cm. When your dealer test-flies a brand new wing, it is one of the things they check. New gliders will be delivered with the correct brake length which is also the certified length.



However, as a glider ages the brake lines can shrink; even the presence of multiple twists in the brake lines can effectively shorten them. You should make it a habit to check for this and untwist the brake lines on launch or lengthen them at the knot. Avoid over-shortening the brake lines.

When your glider is serviced, brake line shrinkage will be spotted but it is also a good idea as a pilot to check from time to time that when you fly hands up, you can see a slight 'bow' or 'slack' in the brake lines and there is no deflection of the trailing edge.

On launch

- 1. Select a suitable take-off area determined by wind and terrain, clear of any obstacles that may catch in the lines or damage the canopy.
- 2. Unroll the canopy with the bottom surface facing upwards, the openings at the downwind end of the take-off area, and the harness at the trailing edge at the upwind side.
- 3. Unroll the canopy to each side so that the leading edge openings form a semicircular shape, with the trailing edge drawn together at the centre of the arc. The harness should be drawn away from the canopy until the suspension lines are just tight.
- 4. Prepare and check your paramotor according to the manufacturer's instructions.
- 5. Connect the wing to the paramotor, making sure there are no twists in the risers, and that the maillons or karabiners are correctly closed.

Pre-flight Checks

A thorough pre-flight procedure is mandatory on all aircraft. The following should be carried out before each flight.

- 1. Whilst opening out the paraglider check the outside of the canopy for any tears...
- 2. Check that the lines are not twisted or knotted. Divide the suspension lines into six groups, each group coming from one riser. By starting from the harness and running towards the canopy remove any tangles or twists in the lines. Partially inflating the canopy in the wind will help to sort out the lines.
- 3. Ensure the brakes are clear and free to move. Check the knot which attaches the brake handles to the brake lines. Both brakes should be the same length and this can be checked by asking an assistant to hold the upper end of the brake lines together whilst the pilot holds the brake handles. The brake lines should be just slack with the wing inflated when the brakes are not applied. After checking the brake lines lay them on the ground.
- 4. Always check the riser maillons and the attachment points to the paramotor frame or buggy. It is strongly recommended to use a safety strap.
- 5. Before getting into the harness you should be wearing a good helmet. Put on the harness ensuring all the buckles are secure adjusted for comfort.
- 6. Check that the trimmers are set to position 2, the position recommended for take-off, and maillons at the same height.

Take care to protect yourself and other people from the propeller. Always start your motor up at a safe distance from other people. If it touches the ground it can fire objects into the air which could injure people several metres away. Remember there are inherent risks with petrol, oil and volatile or flammable materials.

Flight Characteristics

This manual is not intended as an instruction book. You should be a qualified pilot or under suitable supervision, but the following comments describe how to get the best from your paraglider.

Weight range

Each size of paraglider is certified for a certain weight range. The weight refers to the 'overall take-off weight'.

The 'Free flight (EN / LTF A) weight range' is the weight of the pilot, paraglider, harness and other equipment carried when free-flying. The paraglider is EN/LTF certified for this weight range.

The 'Paramotor weight range' allows for all of the above, plus the paramotor and a full tank of fuel.

We recommend flying in the middle of the weight range.

If you fly in the lower half of the weight range, the glider's turning agility decreases and it will be more damped. In strong turbulence the wing will have a slightly increased tendency to deform and to collapse than with a higher wing loading. Only fly lightly loaded if you fly in aerologically stable conditions, such as in the morning or evening.

If you fly in the upper half of the weight range, agility and stability in turbulence will increase, and speed will increase slightly. The self-damping will decrease in turns, as well as after collapses.

Take-off

We recommend setting the trimmers to position 2 for take-off.



Your wing is easy to inflate in light or stronger winds and will quickly rise overhead to the flying position. The best inflation technique is to hold one A-riser in each hand. Hold the brakes in your hands and rest the risers on your arms. Hold the A risers and Baby A together at the links as shown in the image. Never try to launch if the wing is not fully inflated and above your head, and if you do not have full control of pitch and / or roll.

Initial climb

Once in the air, you should continue to face into the wind while you gain altitude. Leave the trimmers in the take-off position (mark 2) to attain the best climb rate. Do not attempt to

increase your climb rate by braking, as using the brakes combined with the engine's thrust can increase the angle of attack to the point where the wing can stall. In addition, this high angle of attack can result in a big dive if the motor suddenly dies, which could be dangerous if you are near the ground.

Do not initiate a turn until you have sufficient height and speed to do so. In certain circumstances, a pilot can induce **unintended oscillations**. This can be due to a combination of the engine/propeller and pilot's weightshift and / or action on the brakes. To stop these oscillations you should reduce the power, ensure that you are seated centrally and not accidentally applying weightshift, and that you are not acting on the brakes. Once the oscillations have stabilised you can gently reapply power.

Trimmers and Speed Bar

The PPG risers have trimmers and an accelerator system (speed bar), which can be used to increase the speed. The standard trimmer setting is fully closed (maillons level), which is the slowest position. For best fuel consumption or to fly in thermals, the trimmers should be closed.

After take-off, once you have gained a safe altitude if you want to increase your speed you can open up the trimmers, keeping your hands up, or apply the speed bar.

Trimmers should be pulled backwards or down when applied. The trimmer should not be pulled to the side or in towards the pilot, as this will cause the webbing to rub on the trimmer buckle causing premature wear. To increase speed using the speed bar, pressure should be applied gradually to the bar. Do not use excessive force to attempt to go beyond the point where the pulleys touch, as this may result in the glider collapsing. Using the speed system can affect the pilot's balance in the harness and it may be necessary to make some adjustments to the harness

Using speed bar is not as comfortable as using trimmers but is safer, because in the event of unexpected turbulence the pilot can react immediately by releasing the bar.

We recommend you fly in conditions where you can penetrate into wind without having to use the accelerator or fully opening the trimmers, which gives you a safety margin of extra speed should you need it.

Glide deteriorates slightly and the glider is slightly more susceptible to collapses with trimmers open or the speed bar applied.

We do not recommend pilots to fly with full accelerator and trimmers fully open at the same time at low altitude.

The ADAM 2 MOTOR has roller-cam trimmers, which are smooth to operate and reduce wear on the webbing.

Nonetheless, it is important to regularly check the wear on the trimmers and that the system is functioning cleanly with no sticking points. If they are showing signs of wear, the trimmers should be replaced. This can be done by the pilot.

Using brakes when accelerated

It is safe to use the brakes at all trimmer settings. Brakes should not be used when trimmets and speed bar are both applied.

Trimmers + brakes = OK Trimmers + speed bar + brakes - No!

Turning

Your first turns should be gradual and progressive. The first action to change direction should be the movement of your weight in the harness towards the side of the intended turn. Then gently relax the pressure on the outer brake, and gently apply pressure to the inner brake until you attain the desired bank angle. To adjust your speed and turning-circle size, coordinate your weightshift with pressure on the outer brake.

Remember that to violently apply pressure on the brakes is dangerous and should be avoided. Never initiate a turn if you are flying slowly, as you risk the glider entering a spin.

Landing

Set the trimmers to the closed position (maillons aligned) and set up your approach downwind of the landing field. When your height above the field is around 40m, slow the motor down and glide in the direction of your intended

landing point. If you are sure to be able to reach your landing place, you should switch the engine off ready for landing. If you land with the engine running there is a considerable risk of rotational propeller damage, (lines passing through the propeller, or even injury).

If you are likely to arrive short of your intended landed spot, power up, gain some height and make your approach again.

When you are on your final approach with your engine off, maintain your speed (hands up) to keep plenty of energy in the wing until you are about 1-2 metres above the ground. Flare, braking slowly and gradually to slow down the wing until you are close to the stall-point and able to land on your feet.

Active Piloting

Active Piloting is a tool that will help you fly with greater safety and enjoyment. It means flying in empathy with your paraglider, guiding it through the air and being aware of feedback from the wing, especially in thermals and turbulence. If the air is smooth the feedback can be minimal but in turbulence feedback is continuous and needs to be constantly assessed by the pilot. This becomes instinctive in good pilots.

Rapid Descent Techniques

Always keep hold of both brakes in order to retain control of your glider when doing Big Ears or B-Line stalls. We do not recommend putting your hands through the brake handles, as this makes it harder to recover from a deep stall situation. There is a risk of deep stall occurring with both Big Ears and B-Line Stall.

Big Ears

The 'baby A-riser' allows the wing tips of the paraglider to be folded in simply and easily to increase its sink rate. It allows you to descend quickly without substantially reducing the forward speed of the canopy (B-lining substantially reduces the canopy's forward speed). To engage big ears, lean forward in the harness and grasp the

baby A-risers (one in each hand) at the maillons, keeping hold of both brake handles if possible. Pull the risers out and down at least 30cm so as to collapse the tips of the glider. It is very important that the other A-lines are not affected when you do this, as this could cause the leading edge to collapse. Steering by weightshifting is possible with big ears in. If the big ears do not come out quickly on their own, a gentle pump on the brakes will speed things up. Before using the big ears facility in earnest it is essential to practise beforehand with plenty of ground clearance in case a leading edge collapse occurs.

B-Line Stall

This fast descent method is a useful emergency procedure. Keeping hold of the brake handles, take hold of the top of the B-risers, one in each hand, and pull them down by around 30cm. This will stall the canopy and forward speed will drop to zero. Make sure you have plenty of ground clearance because the descent rate can be over 10m/sec. To increase the descent rate pull harder on the B-risers. When you release the B-risers the canopy will automatically start flying again, normally within two seconds. Sometimes the canopy will turn gently when it exits from the B-line stall. It is normally better to release the B-risers fairly quickly rather than slowly, as doing so slowly may result in the canopy entering deep stall. Always release the risers symmetrically, as an asymmetric release from a B-line stall may result in the glider entering a spin. This manoeuvre is useful if you need to lose a lot of height quickly, perhaps when escaping from a thunderstorm. It should not be performed with less than 100m of ground clearance.

Spiral Dive

A normal turn can be converted into a strong spiral dive by continuing to apply one brake. The bank angle and speed of the turn will increase as the downward spiral is continued. Be careful to enter the spiral gradually as too quick a brake application can cause a spin or an over-the-nose spiral.

BGD gliders are designed and tested to recover from normal spirals with a descent rate less than 16m/s, automatically without pilot input. If the pilot increases the descent rate of the spiral to over 16m/s or initiates what is known as an over-the-nose spiral, the glider may require pilot input to recover. In this case all the pilot needs to do is to apply some outside brake and steer the glider out of the turn.

The over-the-nose spiral is a special type of spiral dive where the glider points almost directly at the ground. It will enter this if you make a sudden brake application during the spiral entry so that the glider yaws around. The nose of the glider ends up pointing at the ground, after which it picks up speed very quickly. This technique is very similar to SAT entry technique, and like the SAT it is an aerobatic manoeuvre, which is outside the normal safe flight envelope. Please do not practise these manoeuvres as they can be dangerous.

Care should be taken when exiting from any spiral dive. To pull out of a steep spiral dive, release the applied brake gradually or apply opposite brake gradually. A sharp release of the brake can cause the glider to surge and dive as the wing converts speed to lift. Always be ready to damp out any potential dive with the brakes. Also be ready to encounter turbulence when you exit from a spiral because you may fly though your own wake turbulence, which can cause a collapse.

CAUTION: Spiral dives can cause loss of orientation (black-out) and some time is needed to exit this manoeuvre. This manoeuvre must be exited in time and with sufficient height.

Do not perform spiral dives with big ears or asymmetric collapses. The high G loading on fewer lines could overload and break the lines.

Recovery Techniques

All of the following manoeuvres can be dangerous, and should only be practised in a secure environment, such as an SIV course.

Stalls

Stalls are caused through flying too slowly. Airspeed is lost as brake pressure increases and as the canopy approaches the stall point it will start to descend vertically and finally begin to collapse. Should this occur it is important that the pilot releases the brakes at the correct moment. The brakes should never be released when the wing has fallen behind the pilot; the brakes should be released fairly slowly, to prevent the forward dive of the canopy from being too strong. A pre-release of the brake and the reconstruction of the full span is recommended to avoid the tips getting cravatted during the recovery.

Deep Stall (or Parachutal Stall)

Your paraglider has been designed so that it will not easily remain in a deep stall. However, if it is incorrectly rigged or its flying characteristics have been adversely affected by some other cause, it is possible that it could enter this situation. In the interests of safety all pilots should be aware of this problem, and know how to recover from it. The most common way to enter deep stall is from a flying too slowly, from a B-line stall or even from big ears.

When in deep stall the pilot will notice the following:

- Very low airspeed.
- Almost-vertical descent (like a round canopy), typically around 5m/s.
- The paraglider appears guite well inflated but does not have full internal pressure. It looks and feels a bit limp.

Recovery from deep stall is quite simple: the normal method is to simply initiate a mild turn. As the canopy starts to turn it will automatically change to normal flight, but it is very important not to turn too fast as this could induce a spin. The second method is to pull gently on the A-risers. This helps the airflow to re-attach to the leading edge, but be careful not to pull down too hard as this will induce a front collapse.

If the deep stall is particularly stubborn and the previous methods do not work then a full stall will solve the problem. To do this apply both brakes again fairly quickly, as if to do a strong stall, then immediately release both brakes and damp out the forward surge in the normal way. The canopy will swing behind you then automatically reinflate and surge forward in front of you before returning to normal flight. It is the surge forward that exits the canopy from deep stall.

Spins

Spins occur when the pilot tries to turn too fast. In a spin the pilot, lines and canopy basically stay vertical and rotate around a vertical axis. Your paraglider will resist spinning, but if a spin is inadvertently induced the pilot should release the brake pressure but always be ready to damp out any dive as the glider exits the spin. If the pilot does not damp the dive on exiting the spin the glider may have an asymmetric deflation.

Symmetric Front Collapse

It is possible that turbulence can cause the front of the wing to symmetrically collapse, though active piloting can largely prevent this from occurring accidentally. A pilot can reproduce the effect by taking hold of both the A-risers and pulling down sharply on them. The wing will automatically recover on its own from this situation in around 3 seconds. During this recovery period it is advisable not to apply the brakes as this could stall the wing.

Asymmetric Front Collapse

Your paraglider is very resistant to deflations; however if the canopy collapses on one side due to turbulence, the pilot should first of all control the direction of flight by countering on the opposite brake. Most normal collapses will

immediately reinflate on their own and you will hardly have time to react before the wing reinflates automatically. The act of controlling the direction will tend to reinflate the wing. However, with more persistent collapses it may be necessary to pump the brake on the collapsed wing using a long, strong, smooth and firm action. Normally one or two pumps of around 80 cm will be sufficient. Each pump should be applied in about one second and smoothly released. In severe cases it can be more effective to pump both brakes together to get the canopy to reinflate. Be careful not to stall the wing completely if this technique is used.

Releasing a trapped tip (cravat)

It should be difficult to trap the tip so that it will not come out quickly. However, following a very severe deflation any canopy could become tied up in its own lines. If this occurs then first of all use the standard method of recovery from a tip deflation as described in Asymmetric Front Collapse above. If the canopy still does not recover then pull the rear risers to help the canopy to reinflate. Pulling the stabilo line is also a good way to remove cravats, but remember to control your flight direction as your number-one priority. If you are very low then it is much more important to steer the canopy into a safe landing place or even throw your reserve.

NOTE: Test pilots have tested your paraglider well beyond the normal flight envelope, but such tests are carried out in a very precise manner by trained test pilots with a back-up parachute, and over water. Stalls and spins on any paragliders are dangerous manoeuvres and are not recommended.

Loss of brakes

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 for directional control.

Maintenance

Storage

Always store the canopy in a dry, warm place. Ideally this should be in the temperature range of 5°C to 25°C. Never let your canopy freeze, particularly if it is damp.

If you have to pack your canopy away wet, do not leave it for more than a few hours in that condition. As soon as possible dry it out, but do not use direct heat sources as it is flammable!

Your paraglider is made from high quality nylon which is treated against weakening from ultraviolet radiation. However, UV exposure will still weaken the fabric and prolonged exposure to harsh sunlight can severely compromise the safety of your canopy. Therefore once you have finished flying, put your wing away. Do not leave it laying in strong sunshine unnecessarily.

Do not treat your canopy with chemical cleaners or solvents. If you must wash the fabric, use warm water and a little soap. If your canopy gets wet in sea water, wash it with warm water and carefully dry it.

Small Repairs

Small tears in the top or bottom surface (not normally the ribs) of a canopy can be repaired with a patch of self-adhesive ripstop nylon. Tears of up to 100mm can be repaired in this way providing they are not in a high-stress area.

Lines

Releasing line loops



All BGD gliders are rigged from new with loops on the maillons of the C lines (and D lines if any) plus the stabi line. The loops are there so that they can be released to compensate for any shrinkage of the back lines as the glider gets older.

BGD recommends releasing the loops after 100 hours or one year, whichever comes first, or earlier if the pilot feels the glider does not come up as easily on launch.

When the first line check is done, normally at 2 years, the loops should already have been released, and this should be verified and fine-tuned by the check centre.

Left: loops on maillons; Right: loops released

Replacing lines

If you need to replace lines on your glider, we recommended that a professional should mount the new lines. The airworthiness of your glider, and your safety, depends on it being done correctly.

You can identify the line(s) you need to replace from the line layout diagram for your wing. Download the latest version here: https://tinyurl.com/BGDlines

Replacement lines can be ordered from the Accessories section of www.flybgd.com. Check that the lines you have

received correspond with the line layout diagram, and that this matches the line layout of your wing.

The quickest way to remove the old lines is to cut them off. (Don't cut the old lines off if you have not received the new ones or you may end up not being able to fly!). Sometimes only a part line set is needed (eg excluding top lines or brakes) so take care not to cut any lines that need to be retained.

It is important that lines are mounted the correct way up (see diagram on the following page). Microlines have internal reinforcing in one end, marked by yellow thread. This must be put on the line-junction end. The non-reinforced end is marked with white thread and should be attached to the glider tab or the maillon. Sheathed lines have no additional reinforcing and can be mounted either way up.

Tab Alignment

Lines should be symmetrically placed on the tab, except where the tab is inclined. The A tabs are inclined backwards on all BGD gliders, to align with the direction of pull of the line. So when assembling the lines, the A tabs should be angled back, and the B, C and D tabs should be perpendicular to the undersurface.

Line Loops

New lines should be mounted on the maillons without loops on the A and B risers. The Stabi line and the C risers should have a single loop on the maillon.

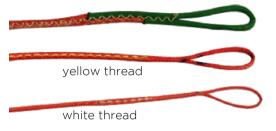
Maillon Inserts

The maillons have black plastic inserts to stop them coming undone accidently and the lines falling off. Always ensure these are correctly installed after rigging the glider. If they are lost then use a locktight to secure the maillon closed. New inserts can be ordered at www.flybgd.com.

Check before flying

After rigging, always do a full dimensional line check of the wing, and also inflate the wing to check everything is correct before flying.

Correct alignment of microlines

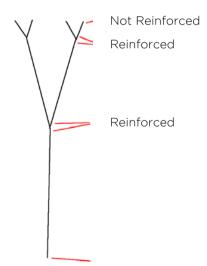




Sheathed lines have no additional reinforcement and can be mounted either way up

Yellow thread marks the reinforced end of a microline

White thread marks the non-reinforced end of a microline



Connecting lines

All the lines are connected to other lines or to tabs with lark's foot junctions. Make sure that these are joined correctly with an interlocked junction and not a looped junction.



Servicing / Inspection

It is important to have your glider regularly serviced. Your wing should have a thorough check / inspection every 24 months or every 150 flight hours, whichever occurs first. This check must be made by the manufacturer, importer, distributor or other authorised persons.

Please print out the service pages from this manual, fill in the number of flights and hours flown in the Service Record, and send together with your glider when it goes for inspection or servicing. The manufacturer will only accept responsibility for paraglider lines and repairs which we have produced and fitted or repaired ourselves.

If you are concerned about any aspect of the integrity of your paraglider please contact your nearest BGD dealer or talk to BGD directly.

Environmental protection and recycling

Our sport takes place in the natural environment, and we should do everything to preserve our environment. A glider is basically made of nylon, synthetic fibres and metal. At the end of your paraglider's life, please remove all metal parts and put the different materials in an appropriate waste/recycling plant.

Technical data

Materials

The ADAM 2 MOTOR is made from the following quality materials:

Sail

Top surface Dominico D30 42g/m²
Bottom surface: Porcher Eazyfly 40g/m²

Internal Structure Porcher Skytex hard finish 40g/m²

Nose reinforcing Plastic wire

Risers

Webbing 20mm Kevlar/Nylon webbing

Maillon Rapide 3.5D Delta shackles + inserts

Pulleys Sprenger Allen

Lines

Top linesLiros PPSLMiddle linesLiros PPSLLower linesLiros PPSLBrakesLiros DSL

Spare parts can be obtained directly from BGD or though our network of registered BGD repair shops. For a full list check www.flybgd.com

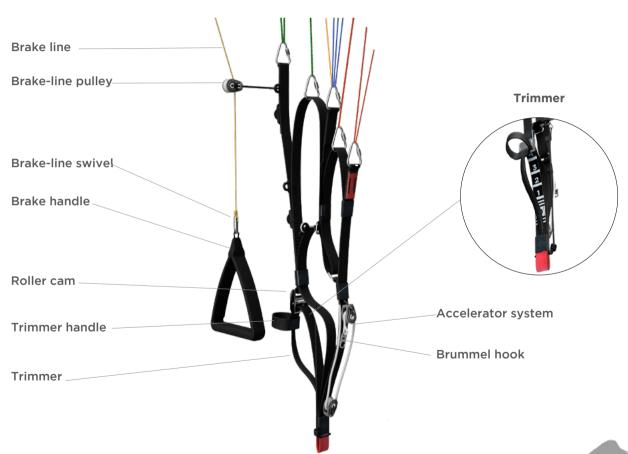
Specifications

| | • | | | | |
|-------------------------------|---------|----------|-----------|-----------|-----------|
| | XS | S | M | ML | L |
| Linear scaling factor | 0.96 | 1.00 | 1.04 | 1.08 | 1.12 |
| Projected area (m²) | 17.9 | 19.7 | 21.4 | 23.1 | 24.8 |
| Flat area (m²) | 21 | 23 | 25 | 27 | 29 |
| Glider weight (kg) | 4.1 | 4.4 | 4.75 | 4.96 | 5.4 |
| Total line length (m) | 212 | 232 | 252 | 272 | 293 |
| Number of main lines | | | 3/4/3 | | |
| Cells | | | 36 | | |
| Flat aspect ratio | | | 4.8 | | |
| Projected aspect ratio | | | 3.4 | | |
| Root chord (m) | 2.6 | 2.7 | 2.9 | 3.0 | 3.1 |
| Flat span (m) | 10.0 | 10.5 | 11.0 | 11.4 | 11.8 |
| Projected span (m) | 7.9 | 8.2 | 8.6 | 8.9 | 9.2 |
| Free-flight weight range (kg) | 50 - 65 | 60 - 80 | 75 - 95 | 88 - 108 | 100 - 125 |
| PPG weight range (kg) | 65 - 95 | 75 - 105 | 90 - 120 | 103 - 133 | 115 - 150 |
| Trim speed (km/h) | 35 | 36 | 38 | 39 | 39 |
| Top speed (km/h) | 48 | 50 | 51 | 50 | 50 |
| Min. sink (m/s) | | | 1 | | |
| Best glide | | | 8.5 | | |
| Certification (free flight) | | | EN+LTF: A | | |
| DGAC registration (paramotor) | | | Yes | | |
| Max. engine power (HP / kW) | 27 / 20 | 27 / 20 | 27 / 20 | 37 / 27 | 37 / 27 |
| Suitable for towing | | | Yes | | |
| | | | | | |

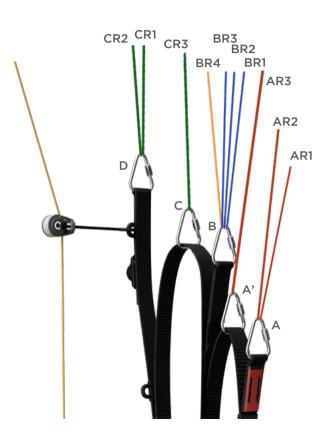
Overview of glider parts



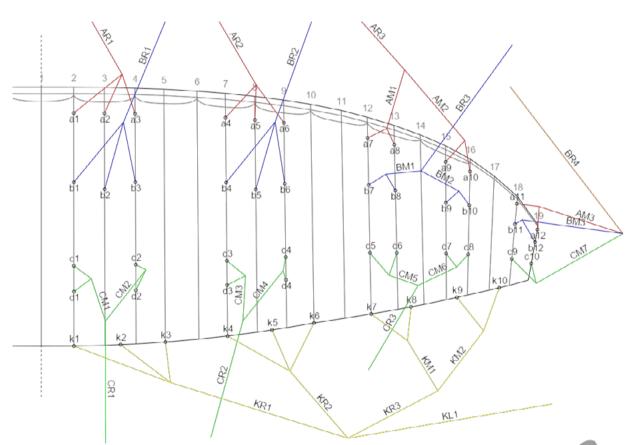
ADAM 2 Motor Risers



Lines / Risers



Line Plan



Line Lengths

All measures are in mm, with 50N line tension, the tension being slowly and gradually applied before taking the measurement. The lengths are measured from the lower surface of the canopy and include the risers.

Compliance of the test sample's suspension lines, control lines and risers with the dimensions given in the user's manual are checked by the testing laboratory after the test flights have been completed.

The difference in line lengths between the manual and the sample may be no more than 10mm. The measured lengths are in the appendix.

Size XS

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 6462 | 6358 | 6420 | 6530 | 6789 |
| 2 | 6451 | 6347 | 6409 | 6518 | 6521 |
| 3 | 6422 | 6324 | 6398 | 6491 | 6485 |
| 4 | 6409 | 6310 | 6375 | 6471 | 6534 |
| 5 | 6380 | 6289 | 6378 | 6458 | 6312 |
| 6 | 6377 | 6298 | 6412 | 6491 | 6228 |
| 7 | 6277 | 6196 | 6261 | | 6170 |
| 8 | 6178 | 6108 | 6145 | | 6181 |
| 9 | 6150 | 6090 | 6115 | | 6029 |
| 10 | 6022 | 6004 | 6099 | | 5978 |
| 11 | 5972 | 5973 | 6098 | | 5900 |
| 12 | 5752 | 5766 | 5908 | | 5889 |
| 13 | 5557 | 5621 | 5785 | | |

| Α | | В | | С | | D | | K | |
|------|------|------|------|-----|------|-----|------|-----|------|
| a1 | 363 | b1 | 368 | c1 | 344 | d1 | 407 | k1 | 671 |
| a2 | 352 | b2 | 357 | c2 | 333 | d2 | 395 | k2 | 403 |
| a3 | 385 | b3 | 382 | с3 | 375 | d3 | 397 | k3 | 372 |
| a4 | 372 | b4 | 367 | с4 | 352 | d4 | 377 | k4 | 421 |
| a5 | 365 | b5 | 353 | c5 | 326 | d5 | 348 | k5 | 418 |
| a6 | 362 | b6 | 362 | с6 | 360 | d6 | 381 | k6 | 344 |
| a7 | 1956 | b7 | 1680 | с7 | 1608 | | | k7 | 360 |
| a8 | 392 | b8 | 400 | с8 | 408 | | | k8 | 361 |
| a9 | 364 | b9 | 382 | с9 | 378 | | | k9 | 375 |
| a10 | 389 | b10 | 340 | c10 | 296 | | | k10 | 314 |
| a11 | 339 | b11 | 309 | c11 | 295 | | | k11 | 297 |
| a12 | 382 | b12 | 394 | c12 | 1172 | | | k12 | 286 |
| a13 | 178 | b13 | 240 | c13 | 1049 | | | | |
| | | | | | | | | | |
| AR1 | 5610 | BR1 | 5502 | CM1 | 711 | DM1 | 753 | KM1 | 804 |
| AM1 | 2404 | BM1 | 1995 | CM2 | 1349 | DM2 | 1415 | KM2 | 754 |
| AM2 | 2381 | BM2 | 1987 | CM3 | 1378 | DM3 | 1431 | KM3 | 1197 |
| AMU1 | 1471 | BMU1 | 1198 | CM4 | 1089 | | | KM4 | 1123 |
| AM4 | 2441 | BM4 | 2096 | CM5 | 1155 | | | KM5 | 868 |
| AM5 | 640 | BR4 | 4263 | CR1 | 4898 | | | KM6 | 807 |
| AM6 | 648 | BR2 | 3469 | CR2 | 4207 | | | KR1 | 2754 |
| AR2 | 3154 | BR3 | 3085 | CR3 | 4180 | | | KR2 | 2082 |
| AM3 | 1131 | ВМ3 | 949 | | | | | KR3 | 2181 |
| AR3 | 2710 | | | | | | | KL1 | 2567 |
| | | | | | | | | | |

Size S

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 6799 | 6693 | 6762 | 6874 | 7147 |
| 2 | 6789 | 6682 | 6750 | 6862 | 6877 |
| 3 | 6761 | 6659 | 6740 | 6833 | 6841 |
| 4 | 6748 | 6645 | 6718 | 6815 | 6891 |
| 5 | 6719 | 6624 | 6720 | 6801 | 6650 |
| 6 | 6715 | 6634 | 6757 | 6837 | 6572 |
| 7 | 6612 | 6536 | 6618 | | 6515 |
| 8 | 6510 | 6445 | 6496 | | 6519 |
| 9 | 6476 | 6426 | 6466 | | 6369 |
| 10 | 6340 | 6327 | 6430 | | 6304 |
| 11 | 6289 | 6295 | 6429 | | 6224 |
| 12 | 6065 | 6080 | 6230 | | 6213 |
| 13 | 5887 | 5953 | 6101 | | |

| A B C D K a1 379 b1 386 c1 361 d1 427 k1 715 a2 369 b2 375 c2 349 d2 415 k2 445 a3 403 b3 400 c3 392 d3 415 k3 390 a4 390 b4 385 c4 370 d4 397 k4 440 a5 383 b5 369 c5 341 d5 364 k5 438 a6 379 b6 379 c6 378 d6 400 k6 360 a7 2046 b7 1766 c7 1701 k7 375 a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 | | | | | | | | | | |
|--|------|------|------|------|-----|------|-----|------|-----|------|
| a2 369 b2 375 c2 349 d2 415 k2 445 a3 403 b3 400 c3 392 d3 415 k3 390 a4 390 b4 385 c4 370 d4 397 k4 440 a5 383 b5 369 c5 341 d5 364 k5 438 a6 379 b6 379 c6 378 d6 400 k6 360 a7 2046 b7 1766 c7 1701 k7 375 a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 k12 | Α | | В | | С | | D | | K | |
| a3 403 b3 400 c3 392 d3 415 k3 390 a4 390 b4 385 c4 370 d4 397 k4 440 a5 383 b5 369 c5 341 d5 364 k5 438 a6 379 b6 379 c6 378 d6 400 k6 360 a7 2046 b7 1766 c7 1701 k7 375 a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 k12 300 | a1 | 379 | b1 | 386 | c1 | 361 | d1 | 427 | k1 | 715 |
| a4 390 b4 385 c4 370 d4 397 k4 440 a5 383 b5 369 c5 341 d5 364 k5 438 a6 379 b6 379 c6 378 d6 400 k6 360 a7 2046 b7 1766 c7 1701 k7 375 a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 300 AM1 2514 BM1 2086 CM2 1411 DM2 1480 KM2 873 AM2< | a2 | 369 | b2 | 375 | c2 | 349 | d2 | 415 | k2 | 445 |
| a5 383 b5 369 c5 341 d5 364 k5 438 a6 379 b6 379 c6 378 d6 400 k6 360 a7 2046 b7 1766 c7 1701 k7 375 a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 300 a13 187 b13 251 c13 1098 KM1 999 AM1 2514 BM1 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 < | a3 | 403 | b3 | 400 | с3 | 392 | d3 | 415 | k3 | 390 |
| a6 379 b6 379 c6 378 d6 400 k6 360 a7 2046 b7 1766 c7 1701 k7 375 a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 300 a13 187 b13 251 c13 1098 CM KM1 909 AM1 2514 BM1 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AM4 | a4 | 390 | b4 | 385 | с4 | 370 | d4 | 397 | k4 | 440 |
| a7 2046 b7 1766 c7 1701 k7 375 a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 300 a13 187 b13 251 c13 1098 c13 c14 200 c14 300 c14 </th <td>a5</td> <td>383</td> <td>b5</td> <td>369</td> <td>c5</td> <td>341</td> <td>d5</td> <td>364</td> <td>k5</td> <td>438</td> | a5 | 383 | b5 | 369 | c5 | 341 | d5 | 364 | k5 | 438 |
| a8 411 b8 419 c8 427 k8 379 a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 300 a13 187 b13 251 c13 1098 c13 k12 300 AR1 5891 BR1 5779 CM1 742 DM1 787 KM1 909 AM1 2514 BM1 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AM4 2554 BM4 2193 CM5 1208 KM6 KM5 908 <td>a6</td> <td>379</td> <td>b6</td> <td>379</td> <td>с6</td> <td>378</td> <td>d6</td> <td>400</td> <td>k6</td> <td>360</td> | a6 | 379 | b6 | 379 | с6 | 378 | d6 | 400 | k6 | 360 |
| a9 382 b9 400 c9 397 k9 393 a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 300 a13 187 b13 251 c13 1098 CM 742 DM1 787 KM1 909 AR1 5891 BR1 5779 CM1 742 DM1 787 KM1 909 AM1 2514 BM1 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMU1 1539 BMU1 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 51 | a7 | 2046 | b7 | 1766 | с7 | 1701 | | | k7 | 375 |
| a10 406 b10 356 c10 310 k10 328 a11 355 b11 324 c11 309 k11 311 a12 400 b12 413 c12 1227 k12 300 a13 187 b13 251 c13 1098 c12 1227 k12 300 AR1 5891 BR1 5779 CM1 742 DM1 787 KM1 909 AM1 2514 BM1 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMU1 1539 BMU1 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 5148 KM6 | a8 | 411 | b8 | 419 | с8 | 427 | | | k8 | 379 |
| all 355 bl1 324 cl1 309 kl1 311 al2 400 bl2 413 cl2 1227 kl2 300 al3 187 bl3 251 cl3 1098 cl2 1227 kl2 300 AR1 5891 BR1 5779 CM1 742 DM1 787 KM1 909 AM1 2514 BM1 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMU1 1539 BMU1 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 <t< th=""><td>a9</td><td>382</td><td>b9</td><td>400</td><td>с9</td><td>397</td><td></td><td></td><td>k9</td><td>393</td></t<> | a9 | 382 | b9 | 400 | с9 | 397 | | | k9 | 393 |
| a12 400 b12 413 c12 1227 k12 300 a13 187 b13 251 c13 1098 k12 300 AR1 5891 BRI 5779 CMI 742 DMI 787 KMI 909 AM1 2514 BMI 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMUI 1539 BMUI 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CRI 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 RM3 4400 KM2 KM2 2194 </th <td>a10</td> <td>406</td> <td>b10</td> <td>356</td> <td>c10</td> <td>310</td> <td></td> <td></td> <td>k10</td> <td>328</td> | a10 | 406 | b10 | 356 | c10 | 310 | | | k10 | 328 |
| ARI 5891 BRI 5779 CMI 742 DMI 787 KMI 909 AMI 2514 BMI 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMUI 1539 BMUI 1262 CM4 1157 AM4 2554 BM4 2193 CM5 1208 AM5 670 BR4 4488 CRI 5148 AM6 704 BR2 3655 CR2 4426 AR2 3325 BR3 3255 CR3 4400 AM3 1183 BM3 993 | a11 | 355 | b11 | 324 | c11 | 309 | | | k11 | 311 |
| ARI 5891 BRI 5779 CMI 742 DMI 787 KMI 909 AMI 2514 BMI 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMUI 1539 BMUI 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CRI 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 | a12 | 400 | b12 | 413 | c12 | 1227 | | | k12 | 300 |
| AMI 2514 BMI 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMUI 1539 BMUI 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | a13 | 187 | b13 | 251 | c13 | 1098 | | | | |
| AMI 2514 BMI 2086 CM2 1411 DM2 1480 KM2 873 AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMUI 1539 BMUI 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | | | | | | | | | | |
| AM2 2491 BM2 2080 CM3 1442 DM3 1499 KM3 1250 AMU1 1539 BMU1 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | AR1 | 5891 | BR1 | 5779 | CM1 | 742 | DM1 | 787 | KM1 | 909 |
| AMUI 1539 BMUI 1262 CM4 1157 KM4 1178 AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | AM1 | 2514 | BM1 | 2086 | CM2 | 1411 | DM2 | 1480 | KM2 | 873 |
| AM4 2554 BM4 2193 CM5 1208 KM5 908 AM5 670 BR4 4488 CR1 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | AM2 | 2491 | BM2 | 2080 | CM3 | 1442 | DM3 | 1499 | KM3 | 1250 |
| AM5 670 BR4 4488 CR1 5148 KM6 845 AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | AMU1 | 1539 | BMU1 | 1262 | CM4 | 1157 | | | KM4 | 1178 |
| AM6 704 BR2 3655 CR2 4426 KR1 2810 AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | AM4 | 2554 | BM4 | 2193 | CM5 | 1208 | | | KM5 | 908 |
| AR2 3325 BR3 3255 CR3 4400 KR2 2194 AM3 1183 BM3 993 KR3 2300 | AM5 | 670 | BR4 | 4488 | CR1 | 5148 | | | KM6 | 845 |
| AM3 1183 BM3 993 KR3 2300 | AM6 | 704 | BR2 | 3655 | CR2 | 4426 | | | KR1 | 2810 |
| | AR2 | 3325 | BR3 | 3255 | CR3 | 4400 | | | KR2 | 2194 |
| AR3 2863 KL1 2720 | AM3 | 1183 | ВМ3 | 993 | | | | | KR3 | 2300 |
| | AR3 | 2863 | | | | | | | KL1 | 2720 |

Size M

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 7095 | 6979 | 7059 | 7182 | 7486 |
| 2 | 7084 | 6969 | 7048 | 7170 | 7267 |
| 3 | 7052 | 6946 | 7039 | 7140 | 7118 |
| 4 | 7041 | 6932 | 7015 | 7120 | 7171 |
| 5 | 7010 | 6911 | 7017 | 7107 | 6920 |
| 6 | 7007 | 6923 | 7053 | 7138 | 6798 |
| 7 | 6896 | 6823 | 6917 | | 6740 |
| 8 | 6782 | 6722 | 6779 | | 6789 |
| 9 | 6753 | 6702 | 6744 | | 6633 |
| 10 | 6612 | 6592 | 6691 | | 6534 |
| 11 | 6561 | 6560 | 6690 | | 6479 |
| 12 | 6331 | 6354 | 6510 | | 6466 |
| 13 | 6148 | 6220 | 6374 | | |

| Α | | В | | С | | D | | K | |
|------|------|------|------|-----|------|-----|------|-----|------|
| a1 | 396 | b1 | 402 | c1 | 376 | d1 | 445 | k1 | 551 |
| a2 | 385 | b2 | 392 | c2 | 365 | d2 | 433 | k2 | 332 |
| a3 | 419 | b3 | 417 | с3 | 410 | d3 | 434 | k3 | 407 |
| a4 | 408 | b4 | 402 | с4 | 386 | d4 | 414 | k4 | 460 |
| a5 | 399 | b5 | 385 | c5 | 358 | d5 | 385 | k5 | 457 |
| a6 | 396 | b6 | 397 | с6 | 394 | d6 | 416 | k6 | 335 |
| a7 | 2124 | b7 | 1855 | с7 | 1790 | | | k7 | 348 |
| a8 | 428 | b8 | 437 | с8 | 447 | | | k8 | 397 |
| a9 | 399 | b9 | 417 | с9 | 412 | | | k9 | 411 |
| a10 | 424 | b10 | 371 | c10 | 324 | | | k10 | 312 |
| a11 | 373 | b11 | 339 | c11 | 323 | | | k11 | 326 |
| a12 | 413 | b12 | 434 | c12 | 1305 | | | k12 | 313 |
| a13 | 191 | b13 | 261 | c13 | 1169 | | | | |
| | | | | | | | | | |
| AR1 | 6161 | BR1 | 6044 | CM1 | 766 | DM1 | 819 | KM1 | 1136 |
| AM1 | 2620 | BM1 | 2166 | CM2 | 1472 | DM2 | 1548 | KM2 | 912 |
| AM2 | 2597 | BM2 | 2161 | CM3 | 1502 | DM3 | 1564 | KM3 | 1301 |
| AMU1 | 1596 | BMU1 | 1323 | CM4 | 1210 | | | KM4 | 1230 |
| AM4 | 2652 | BM4 | 2269 | CM5 | 1245 | | | KM5 | 948 |
| AM5 | 721 | BR4 | 4680 | CR1 | 5398 | | | KM6 | 879 |
| AM6 | 759 | BR2 | 3840 | CR2 | 4638 | | | KR1 | 2940 |
| AR2 | 3486 | BR3 | 3424 | CR3 | 4602 | | | KR2 | 2303 |
| AM3 | 1230 | ВМ3 | 1017 | | | | | KR3 | 2415 |
| AR3 | 3014 | | | | | | | KL1 | 2846 |
| | | | | | | | | | |

Size ML

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 7361 | 7242 | 7322 | 7444 | 7751 |
| 2 | 7351 | 7232 | 7311 | 7432 | 7461 |
| 3 | 7321 | 7213 | 7302 | 7404 | 7420 |
| 4 | 7309 | 7199 | 7278 | 7384 | 7477 |
| 5 | 7276 | 7177 | 7282 | 7371 | 7217 |
| 6 | 7273 | 7188 | 7322 | 7410 | 7131 |
| 7 | 7164 | 7089 | 7192 | | 7070 |
| 8 | 7053 | 6990 | 7059 | | 7079 |
| 9 | 7017 | 6969 | 7026 | | 6913 |
| 10 | 6872 | 6857 | 6971 | | 6840 |
| 11 | 6817 | 6822 | 6970 | | 6757 |
| 12 | 6575 | 6591 | 6755 | | 6744 |
| 13 | 6382 | 6454 | 6614 | | |

| Α | | В | | С | | D | | K | |
|------|------|------|------|-----|------|-----|------|-----|------|
| a1 | 411 | b1 | 418 | c1 | 391 | d1 | 463 | k1 | 775 |
| a2 | 401 | b2 | 408 | c2 | 380 | d2 | 451 | k2 | 485 |
| a3 | 436 | b3 | 434 | с3 | 426 | d3 | 451 | k3 | 422 |
| a4 | 424 | b4 | 419 | с4 | 402 | d4 | 431 | k4 | 479 |
| a5 | 415 | b5 | 401 | c5 | 370 | d5 | 396 | k5 | 475 |
| a6 | 412 | b6 | 412 | с6 | 410 | d6 | 435 | k6 | 389 |
| a7 | 2217 | b7 | 1922 | с7 | 1862 | | | k7 | 403 |
| a8 | 446 | b8 | 455 | с8 | 464 | | | k8 | 412 |
| a9 | 415 | b9 | 434 | с9 | 431 | | | k9 | 427 |
| a10 | 441 | b10 | 387 | c10 | 337 | | | k10 | 354 |
| a11 | 386 | b11 | 352 | c11 | 336 | | | k11 | 339 |
| a12 | 434 | b12 | 448 | c12 | 1331 | | | k12 | 326 |
| a13 | 203 | b13 | 273 | c13 | 1190 | | | | |
| | | | | | | | | | |
| AR1 | 6421 | BR1 | 6296 | CM1 | 804 | DM1 | 853 | KM1 | 983 |
| AM1 | 2721 | BM1 | 2257 | CM2 | 1526 | DM2 | 1602 | KM2 | 950 |
| AM2 | 2696 | BM2 | 2252 | CM3 | 1562 | DM3 | 1624 | KM3 | 1353 |
| AMU1 | 1666 | BMU1 | 1374 | CM4 | 1270 | | | KM4 | 1278 |
| AM4 | 2766 | BM4 | 2375 | CM5 | 1309 | | | KM5 | 983 |
| AM5 | 725 | BR4 | 4909 | CR1 | 5616 | | | KM6 | 915 |
| AM6 | 762 | BR2 | 4004 | CR2 | 4839 | | | KR1 | 3064 |
| AR2 | 3645 | BR3 | 3572 | CR3 | 4813 | | | KR2 | 2405 |
| AM3 | 1279 | ВМ3 | 1073 | | | | | KR3 | 2519 |
| AR3 | 3148 | | | | | | | KL1 | 2936 |
| | | | | | | | | | |

Size L

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 7633 | 7502 | 7590 | 7715 | 8019 |
| 2 | 7622 | 7492 | 7578 | 7703 | 7711 |
| 3 | 7592 | 7479 | 7571 | 7675 | 7669 |
| 4 | 7579 | 7465 | 7546 | 7655 | 7728 |
| 5 | 7546 | 7443 | 7551 | 7643 | 7469 |
| 6 | 7542 | 7455 | 7593 | 7683 | 7369 |
| 7 | 7424 | 7354 | 7464 | 0 | 7307 |
| 8 | 7311 | 7251 | 7326 | 0 | 7327 |
| 9 | 7279 | 7230 | 7292 | 0 | 7147 |
| 10 | 7130 | 7112 | 7235 | 0 | 7080 |
| 11 | 7072 | 7076 | 7233 | 0 | 6995 |
| 12 | 6821 | 6837 | 7007 | 0 | 6981 |
| 13 | 6620 | 6695 | 6861 | 0 | 0 |

| Α | | В | | С | | D | | K | |
|------|------|------|------|-----|------|-----|------|-----|------|
| a1 | 427 | b1 | 433 | c1 | 406 | d1 | 480 | k1 | 823 |
| a2 | 416 | b2 | 423 | c2 | 394 | d2 | 468 | k2 | 515 |
| a3 | 453 | b3 | 450 | сЗ | 442 | d3 | 467 | k3 | 438 |
| a4 | 440 | b4 | 435 | с4 | 417 | d4 | 447 | k4 | 497 |
| a5 | 430 | b5 | 416 | c5 | 384 | d5 | 411 | k5 | 492 |
| a6 | 426 | b6 | 428 | с6 | 426 | d6 | 451 | k6 | 402 |
| a7 | 2296 | b7 | 1993 | с7 | 1930 | | | k7 | 417 |
| a8 | 462 | b8 | 472 | с8 | 481 | | | k8 | 427 |
| a9 | 430 | b9 | 451 | с9 | 447 | | | k9 | 443 |
| a10 | 458 | b10 | 401 | c10 | 350 | | | k10 | 366 |
| a11 | 400 | b11 | 365 | c11 | 348 | | | k11 | 352 |
| a12 | 451 | b12 | 465 | c12 | 1380 | | | k12 | 338 |
| a13 | 211 | b13 | 284 | c13 | 1234 | | | | |
| | | | | | | | | | |
| AR1 | 6672 | BR1 | 6541 | CM1 | 833 | DM1 | 883 | KM1 | 907 |
| AM1 | 2818 | BM1 | 2337 | CM2 | 1581 | DM2 | 1659 | KM2 | 898 |
| AM2 | 2794 | BM2 | 2333 | CM3 | 1619 | DM3 | 1683 | KM3 | 1402 |
| AMU1 | 1727 | BMU1 | 1424 | CM4 | 1316 | | | KM4 | 1325 |
| AM4 | 2867 | BM4 | 2461 | CM5 | 1356 | | | KM5 | 1019 |
| AM5 | 751 | BR4 | 5107 | CR1 | 5837 | | | KM6 | 948 |
| AM6 | 789 | BR2 | 4169 | CR2 | 5034 | | | KR1 | 3273 |
| AR2 | 3797 | BR3 | 3722 | CR3 | 5009 | | | KR2 | 2504 |
| AM3 | 1325 | ВМ3 | 1112 | | | | | KR3 | 2624 |
| AR3 | 3283 | | | | | | | KL1 | 3053 |
| | | | | | | | | | |

Service Record

Service No 1

Date

Nº flights

Type of Service

Notes

Service No 2

Date

N° flights

Type of Service

Notes

Stamp / Signature

Service No 3

Date

Nº flights

Type of Service

Notes

Stamp / Signature

Stamp / Signature

Stamp / Signature

Date

N° flights

Type of Service

Service No 4

Notes

Stamp / Signature

Service No 5

Date

Nº flights

Type of Service

Notes

Service No 6

Date

N° flights

Type of Service

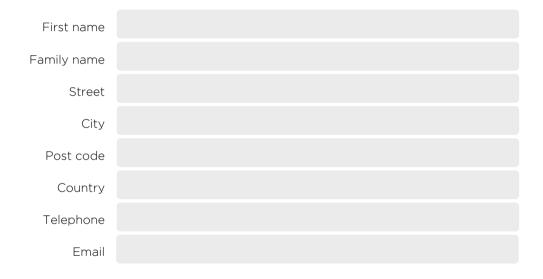
Notes

Stamp / Signature

Owner Record Pilot No 1

| First name | |
|-------------|--|
| Family name | |
| Street | |
| City | |
| Post code | |
| Country | |
| Telephone | |
| Email | |

Owner Record Pilot No 2



Closing Words

Your new paraglider promises many hours of safe and enjoyable flying, provided you treat it with care and always respect the potential dangers of aviation.

Please always remember that flying can be dangerous and your safety depends on you. With careful treatment your wing should last for many years. It has been tested under current international airworthiness standards, and these represent the current knowledge concerning the safety of a glider. However, since there are still many unknown issues, for example the effective lifespan of the current generation of gliders and how strong the material aging can be accepted without affecting the airworthiness. There are natural forces that can threaten your safety, regardless of the quality of construction or the condition of your glider. Your security is ultimately your responsibility. We strongly recommend that you fly carefully, adapt to the weather conditions and keep your safety in mind. Flying in a club or a school with experienced pilots is highly recommended. We recommend that you fly with a standard harness with back protection and a reserve parachute. Always use good equipment and an approved helmet.

See you in the sky!

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Appendix

EN line measurements

The tables below show the line measurements for the test wings, as measured by the test house during the certification procedure. These figures relate to the Bridle Check Tables.

Size XS

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 6462 | 6358 | 6420 | 6530 | 6789 |
| 2 | 6451 | 6347 | 6409 | 6518 | 6521 |
| 3 | 6422 | 6324 | 6398 | 6491 | 6485 |
| 4 | 6409 | 6310 | 6375 | 6471 | 6534 |
| 5 | 6380 | 6289 | 6378 | 6458 | 6312 |
| 6 | 6377 | 6298 | 6412 | 6491 | 6228 |
| 7 | 6277 | 6196 | 6261 | | 6170 |
| 8 | 6178 | 6108 | 6145 | | 6181 |
| 9 | 6150 | 6090 | 6115 | | 6029 |
| 10 | 6022 | 6004 | 6099 | | 5978 |
| 11 | 5972 | 5973 | 6098 | | 5900 |
| 12 | 5752 | 5766 | 5908 | | 5889 |
| 13 | 5557 | 5621 | 5785 | | |

Size S

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 6791 | 6688 | 6762 | 6878 | 7141 |
| 2 | 6781 | 6678 | 6751 | 6864 | 6880 |
| 3 | 6763 | 6660 | 6733 | 6828 | 6834 |
| 4 | 6746 | 6646 | 6710 | 6810 | 6890 |
| 5 | 6718 | 6621 | 6715 | 6794 | 6661 |
| 6 | 6715 | 6629 | 6748 | 6829 | 6565 |
| 7 | 6612 | 6533 | 6620 | | 6507 |
| 8 | 6506 | 6441 | 6499 | | 6524 |
| 9 | 6477 | 6423 | 6468 | | 6363 |
| 10 | 6342 | 6326 | 6431 | | 6313 |
| 11 | 6293 | 6292 | 6429 | | 6229 |
| 12 | 6063 | 6078 | 6230 | | 6218 |
| 13 | 5885 | 5945 | 6100 | | |

Size M

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 7085 | 6977 | 7060 | 7183 | 7479 |
| 2 | 7083 | 6971 | 7049 | 7172 | 7259 |
| 3 | 7049 | 6947 | 7040 | 7142 | 7116 |
| 4 | 7039 | 6933 | 7017 | 7124 | 7168 |
| 5 | 7007 | 6910 | 7017 | 7109 | 6931 |
| 6 | 7006 | 6924 | 7051 | 7137 | 6792 |
| 7 | 6897 | 6823 | 6920 | | 6728 |
| 8 | 6791 | 6718 | 6770 | | 6799 |
| 9 | 6760 | 6695 | 6735 | | 6627 |
| 10 | 6613 | 6587 | 6687 | | 6544 |
| 11 | 6564 | 6551 | 6686 | | 6488 |
| 12 | 6324 | 6347 | 6508 | | 6477 |
| 13 | 6140 | 6211 | 6372 | | |

Size L

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 7633 | 7502 | 7590 | 7715 | 8019 |
| 2 | 7622 | 7492 | 7578 | 7703 | 7711 |
| 3 | 7592 | 7479 | 7571 | 7675 | 7669 |
| 4 | 7579 | 7465 | 7546 | 7655 | 7728 |
| 5 | 7546 | 7443 | 7551 | 7643 | 7469 |
| 6 | 7542 | 7455 | 7593 | 7683 | 7369 |
| 7 | 7424 | 7354 | 7464 | 0 | 7307 |
| 8 | 7311 | 7251 | 7326 | 0 | 7327 |
| 9 | 7279 | 7230 | 7292 | 0 | 7147 |
| 10 | 7130 | 7112 | 7235 | 0 | 7080 |
| 11 | 7072 | 7076 | 7233 | 0 | 6995 |
| 12 | 6821 | 6837 | 7007 | 0 | 6981 |
| 13 | 6620 | 6695 | 6861 | 0 | 0 |

Size ML

| | Α | В | С | D | K |
|----|------|------|------|------|------|
| 1 | 7360 | 7239 | 7318 | 7442 | 7749 |
| 2 | 7351 | 7228 | 7310 | 7430 | 7455 |
| 3 | 7319 | 7211 | 7301 | 7405 | 7410 |
| 4 | 7308 | 7198 | 7276 | 7386 | 7470 |
| 5 | 7276 | 7175 | 7281 | 7370 | 7223 |
| 6 | 7272 | 7183 | 7320 | 7411 | 7122 |
| 7 | 7167 | 7091 | 7194 | | 7064 |
| 8 | 7051 | 6987 | 7056 | | 7086 |
| 9 | 7016 | 6967 | 7022 | | 6905 |
| 10 | 6878 | 6855 | 6970 | | 6847 |
| 11 | 6821 | 6819 | 6968 | | 6766 |
| 12 | 6577 | 6590 | 6753 | | 6754 |
| 13 | 6380 | 6450 | 6610 | | |