



PARAGLIDERS
www.solparagliders.com.br

POSE # 0



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#### Welcome to the **SOL** team!

Thank you for selecting a **SOL** paraglider. You have just acquired a high quality product, manufactured under one of the most demanding industry standards worldwide.

We trust your paraglider will bring you many great life memories you will cherish forever. We would like you to read this manual carefully and thoroughly. In it, you will find important information about using your new equipment.

This manual is to be read carefully. You'll find important infomation about your glider and its use.

In the event you should have any questions about its usage or should you wish to be updated on the latest news at **SOL**, we remain at your disposal:

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Don't forget to access our website often at:

http://www.solsparagliders.com.br.

Keep current on the latest models' launchings, results and news from the world of paragliding.

Welcome to the SOL Team!



### Warning

- This paraglider meets at the time of delivery the requirements of the LTF certification or of the EN!
- Any equipment alteration will result in the cancellation of this respective certification.
- Flying with this equipment shall be performed at the individual's own risk.
- The manufacturer and its representatives are not liable and therefore not responsible for any misusage nor mishandling of this equipment.
- Every pilot is responsible for the maintenance and assessment of equipment usability.
- It is a basic assumption that the pilot is certified to fly this paraglider.
- This manual offers information about your paraglider. It is not a training manual.
- It is a assumption that the pilot respects the law and order of aviation and that his skills are up to the challenge of this particular equipment!



#### **About SOL**

Founded in 1991, after six months of research and many visits to several manufacturing facilities and suppliers, **SOL** began its production in partnership with the European brands Condor, Comet and Nova.

In 1995, the company moved to its current facility, occupying an area of 4000 m<sup>2</sup> and has at its disposal a team of about 120 employees, of which 22 are pilots. **SOL** provides a comprehensive benefits package such as Health Plan, Life Insurance, partnerships with pharmacies, transportation vouchers, incentive getaways to employees who outperform each month, and education grants. At **SOL**, we take extreme measures to maintain our machinery and manufacturing equipment current with the world market. This way, we safeguard our accuracy everyday in the production process, control and assuring the high quality of **SOL** brand and products throughout more than 70 countries around the world.

In 1999 **SOL** gets its own testing and development centers. From the beginning **SOL** has adopted the philosophy of utilizing certified designs, manufactured with imported materials of the highest quality by specialized and skilled-trained staff.

In early 2004 **SOL** became certified by DHV, which is the most respected regulating body of free-flying worldwide. Its mandate is to make sure its members have the capacity to reproduce faithfully the certified equipment on an industrial scale. Few facilities in the world possess this certification in their manufacturing process. **SOL** was one of the firsts to obtain it! This is just one of the great accomplishments of this young and dynamic company, which presently is among the ten major paragliding and accessories manufacturers in the world!

### **Philosophy**

**SOL**'s philosophy is to introduce products that are considerably better than current ones, in order to guarantee significant advancements in four aspects: Safety, Performance, Ease of Operation and Innovation.

#### Safety:

The new product has to offer a level of safety that is at par or better than the one it is replacing.

#### Performance:

The new product must perform better than the one it is replacing.

#### Ease of Operation:

The new product must display higher levels and better operational ease than the one it is replacing.

#### Innovation

New products must display real benefits to the user, facilitating free-flying, increased safety, or both.

The development process and design of every new product begins at the computer. Drawing Software, 2D, 3D modeling and simulation are utilized before the actual manufacturing of prototypes, in order to ensure greater accuracy in each new design.



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### **SYCROSS**<sup>ONE</sup> - Pure performance on B class

The new SYCROSS ONE: a thermal snooper in a sophisticated state-of-the-art construction with a tremendous XC performance that completes our B class in the high end level.

Destined to pilots in frequent activity who are evolving and searching for a high performance wing without abdicating from safety and confidence of B class.

Half of all pilots fly in B class and with the SYCROSS ONE we offer now the whole spectrum in this category:

- Atmus One EN B low
- Ellus Five EN B mid
- Sycross One EN B high end.

#### **Features:**

- Mini-ribs;
- · 3D shaping;
- Competition Vectran® ULTIMATE lines;
- 3 Risers system;
- Light&Compact series;
- PBP Pressure Booster Profile;
- C-riser control.

The SYCROSS ONE is a new paraglider family performing as a classic C wing with the passive safety of the high end **B** certification.



This glider is not designed for flight school!

**SYCROSS**<sup>ONE</sup> - Pure performance on B class

**SYCROSS ONE - Technical description** 

The SYCROSS ONE combines our performance technology with security.





HPAR - High Project Aspect Ratio: higher A/R in each class.



LCT - Laser Cut Technology: Panels, profiles and parts cutting with Laser equipment.



**HTM** - **High Tech Materials** — highest technology materials guarantee durability - Technora Lines, Diax Laminates, Inox Hardware, Polyester of High Tenacity.



**3RS - 3 Risers System:** A – B – C row in all levels - less 25% line consumption.



**PBP - Pressure Booster Profile:** New design to increase and maintain inner pressure. More performance along all velocity.



**Full Hybrid Tecnology:** is the hybrid utilization of 2 types of fabrics and lines. An optimised combination of durability and resistance with low deformation and less weight.



**BOW Tech:** Greater lift in the same sail area and better pressure distribution across wingspan glider.



**Mini Ribs:** Profiles between the cells of the trailing edge, which improve performance and handling.



X Battens: Cross X battens strengthening the nose profile.



**3D Shaping:** Our double 3D Shaping is a three dimensions modeling technology that reduces wrinkles and imperfections on the leading edge construction, improving the overall aerodynamic performance.



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# **SYCROSS**ONE - The Project

The SYCROSS ONE consists of 57 cells and has internal crossed diagonals applied at the profiles to distribute the weight uniformly. This maintains the canopy very shapely and cleans and reduces the induced drag.

The SYCROSS ONE was designed at the new software. Its enhanced design and profile are the result of our continuous development and refinement process in terms of performance paired with stability. The improved features of this project permit a large speed range and excellent stability.

### **SYCROSS**<sup>ONE</sup> - Technical Data

SYCROSSONE	XS	S	M	L	XL	XXL	Uni
Zoom	0,93	0,965	1	1,03	1,075	1,12	
Cells	57	57	57	57	57	57	
<b>Projected Wingspan</b>	8,99	9,33	9,67	9,96	10,40	10,83	m
Projected Surface	19,05	20,51	22,03	23,37	25,46	27,63	m <sup>2</sup>
Projected A/R	4,24	4,24	4,24	4,24	4,24	4,24	
Real Wingspan	11,19	11,61	12,03	12,39	12,93	13,47	m
Real Surface	22,12	23,82	25,58	27,14	29,56	32,09	m <sup>2</sup>
Real A/R	5,66	5,66	5,66	5,66	5,66	5,66	
Line Diameter		0.6 - (	0.9 - 1.0 -	1.2 - 1.4 V	ectran		mm
Height	723	749	774	796	828	861	cm
Maximum Profile	247	257	266	274	286	298	cm
Minimum Profile	58	60	62	64	67	69	cm
Weight	4,90	5,35	5,65	6,14	6,55	7,10	kg
Take off Weight*	65-80	75-90	85-100	95-110	105-125	120-140	kg
	143-176	154-198	187-220	209-242	231-275	264-308	lb
Sink Rate Minimum	1	1	1	1	1	1	m/s
Minimum Speed**	24+-1	24+-1	24+-1	24+-1	24+-1	24+-1	km/h
Minimum Speed**	39+-1	39+-1	39+-1	39+-1	39+-1	39+-1	km/h
Maximum Speed**	56+-1	56+-1	56+-1	56+-1	56+-1	56+-1	km/h
Glide	10,4	10,4	10,4	10,4	10,4	10,4	m/s
Places	1	1	1	1	1	1	
Certification	Load	В	В	В	В	Load	

<sup>\*</sup> Take Off Weight: Pilot , Glider, Harness and equipment(20kg -44 lb )

The identification and information tag is found at the center of the wingtip.



### **SYCROSSONE** - Parts List and Material

All components are high standar and were chosen for a long life of your equipment.

Тор	Wtx40 PU+Silicon Coating 40 gr/sm
Bottom	Wtx40 Pu+Silicon Coating 40 gr/sm
Profiles/Diagonal Bands:	Pro-Nyl High Tenacity Nylon rip-stop Hard finish 42 gr/sm
Karabiners:	Ansung Precision 15 mm Bl 800 kg
Risers:	Fitanew 15 x 2,0 mm flat multi Bl. 1.600 kg
Pulleys:	Sol PL14
Button:	Magnetic ISR 10 mm
Reinforcements:	Nylon Battens (Profile front)
Front/Edges band:	Multiprint polyester 25 mm white
Attach Band(loops):	Fitanew 10 x 0.8 mm 140 kg
Sewn Tread:	Guterman / Coats Poliester continuous filament 60 white Linhanyl / Coats Poliamide 20-30-40 Black

Tipo de Linha Type of Line	12100 Vectran	12240 Vectran	16330 Vectran	12470 Vectran	16560 Vectran	988-2,1
Fabricante de linha Line manufacturer	Cousin FR					
No. do teste de resistência Test number of line bending	LKT 561 Eapr	LKT 560 Eapr	LKT 559 Eapr	LKT 558 Eapr	LKT 555 Eapr	EAPR- BT- 0388/15 262,6 daN
Diâmetro Diameter	0,6mm	0,9mm	1,0mm	1,2mm	1,4mm	2,1mm
Material do Núcleo Material Core	Vectran	Vectran	Vectran	Vectran	Vectran	Technora
Material revestimento Material Cladding	-	-	-	-	-	Polyester
Resistência das Linhas Line Strength bended	27,9 daN	57,5 daN	85,7 daN	128,9 daN	179,0 daN	181,1 daN

# **SYCROSS**ONE - Suspension system

The SYCROSS ONE lines consist of Vectran with high resistance to tension and has low distortion rate. The set is made of individual lines, with sewn ties on both extremities.

The upper lines distinguish themselves (next to the inside layer) and the main lines, which are connected to the Quick Links. These, in turn connect to the main lines on the risers. The stabilizers' lines are connected to the same Quick Links.



<sup>\*\*</sup> Performance depends on pilot position and aerodynamic form of the harness.

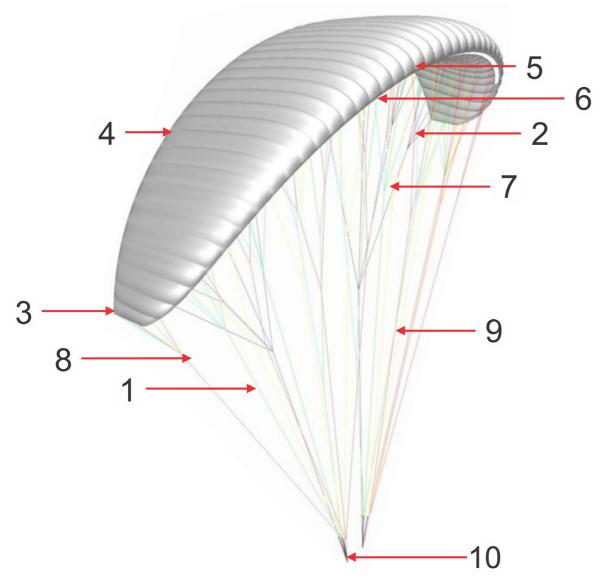
The brake lines come out of the trailing edge, through the master line and are linked to the toggles, passing through a pulley attached to the 'C' riser.

The brake lines are of different color in order to facilitate takeoff preparation.

The Quick Links are triangular shaped and are made of inox resin.

On the brakes' master lines, there is a mark at the ideal setting point, at which height the toggles are affixed. This setting should not be altered as it ensures adequate and sufficient path and room for the toggles in case of emergency situations during flight and landing. Furthermore, in this position the paraglider is not constantly on a stall.

### **SYCROSSONE** - Overview Glider

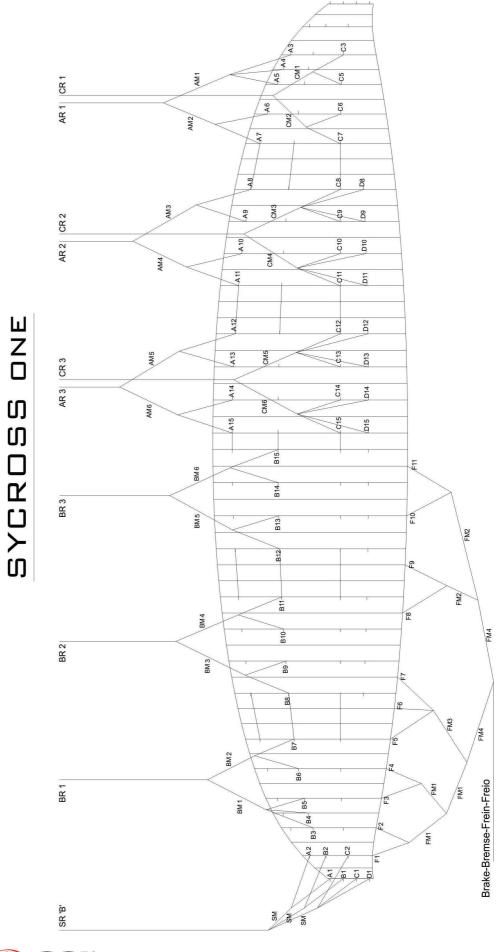


- 1 Bremsleinen
- 2 Galerieleinen
- 3 Stabilo
- 4 Austrittskante
- 5 Typenschild

- 6 Eintrittskante
- 7 Mittlere Leinen
- 8 Stabiloleinen
- 9 Stammleinen
- 10 Tragegurte







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# **SYCROSS**<sup>ONE</sup> - S - Line lengths

SYCROSS One S									
	Α	В	С	D			F		
1						1			
2						2			
3						3			
4					ΙI	4			
5					ll	5			
6					ll	6			
7					ΙI	7			
8					1 1	8			
9					ll	9			
10					ll	10			
11					ΙI	11			
12					1 '				
13									
14									
15									
		· ·							

EAPR total length include risers



# **SYCROSS**<sup>ONE</sup> - M - Line lengths

		S١	CROSS	One M		
	Α	В	С	D		F
1	6932	6935	6952	7008	1	7243
2	7075	7051	7080		2	7264
3	7273	7260	7283		3	7264
4	7286	7275	0		4	7297
5	7328	7312	7352		5	7323
6	7402	7382	7426		6	7333
7	7500	7468	7517		7	7449
8	7571	7532	7581	7676	8	7524
9	7545	7501	7552	7660	9	7606
10	7566	7519	7570	7688	10	7780
11	7637	7583	7641	7756	11	8043
12	7675	7614	7668	7794	1 —	
13	7645	7584	7643	7770		
14	7668	7605	7668	7797		
15	7741	7676	7741	7863		

EAPR total length include risers



# **SYCROSS**<sup>ONE</sup> - L - Line lengths

	SYCROSS One L							
	Α	В	С	D			F	
1	7118	7123	7145	7204		1	7460	
2	7267	7243	7273			2	7483	
3	7471	7478	7490		ΙΓ	3	7489	
4	7486	7479	0		ΙΓ	4	7523	
5	7529	7520	7559		ΙΓ	5	7551	
6	7607	7588	7634			6	7563	
7	7704	7674	7726			7	7679	
8	7784	7744	7793	7884	1 [	8	7751	
9	7757	7708	7767	7874	ΙΓ	9	7834	
10	7781	7724	7789	7899	ΙГ	10	8010	
11	7851	7792	7861	7970		11	8285	
12	7891	7823	7892	8012	-			
13	7865	7792	7866	7988				
14	7891	7818	7888	8018				
15	7961	7889	7956	8081				
					•			

EAPR total length include risers

# $\ensuremath{\text{SYCROSS}^{\text{ONE}}}$ - XL - Line lengths

- 1	Α	В	С	D			F
1	7422	7422	7444	7506		1	7772
2	7574	7548	7579			2	7794
3	7788	7772	7804		1	3	7800
4	7802	7789	7879			4	7834
5	7846	7828	7878			5	7866
6	7932	7901	7955			6	7877
7	8033	7991	8053			7	8000
8	8109	8063	8124	8214	1	8	8081
9	8081	8030	8094	8205		9	8167
10	8102	8040	8114	8231		10	8348
11	8177	8113	8186	8301		11	8623
12	8216	8149	8218	8344	1		
13	8183	8113	8187	8321			
14	8211	8135	8210	8351			
15	8286	8212	8285	8421			

EAPR total length include risers



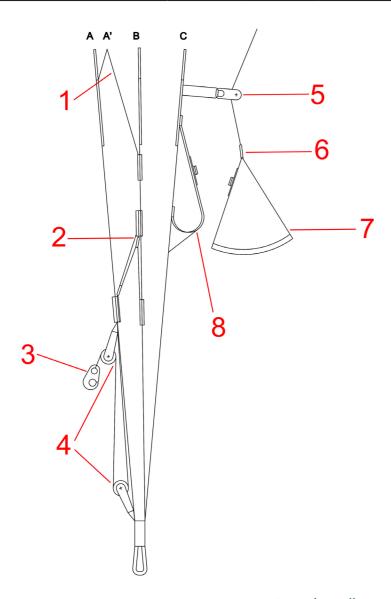


### **SYCROSSONE** - Risers and Speed System

The SYCROSS ONE doesn't have trimmer but can be used with a speedbar. He has 3 risers on each side, with the 'A' lines attached to the 'A' riser. The riser 'A1' is divided to make "ears" easy. The 'B' lines and the stabilizer are attached to the 'B' riser. And lines 'C' are attached to riser 'C' additionally to the brake pulley.

The Speed System works on the risers 'A', 'A1' and 'B'. When set at the normal position, all risers have the same length. When the Speed System is activated, it shortens the risers 'A', `A1' and 'B'. The riser 'C' remains in its original position.

	Α	A1	В	С
Normal position	560mm	560mm	560mm	560mm
Speed System activated	430mm	450mm	470mm	560mm



- 1- Ears
- 2- System of increase speed
- 3- Speed System Connection
- 4- Speed Pulleys

- 5- Brake pulley
- 6- Swivel
- 7- Toggle
- 8- Command handle



### Adjusting your speed system

The majority of the latest harnesses have pulleys for assembling the Foot Speed System. In the eventuality the pulleys are not there, it is important to attach such pulleys (sewing them) in such way to make the operation of the speed system softer. The little chord on the speed system must be firmly attached (by a non-slippery knot) to the stirrup (aluminum bar). The other end of the cable is fed through the harness' pulleys and comes out vertically, and firmly attached to a Quick Link with a strong coil, a quick hook-up or preferably closed by a nut.

In order to adjust the Speed System, we suggest that you connect the harness and the risers together, suspended from the ground. Ask a friend to pull the risers 'A' upwards. At this time, adjust the length right to the bar in such way to be easily reachable with your feet in flight and by stretching the legs, make sure to llow for a clear path to maximize the accelerator usage.

### Operation

The pilot activates the speed system by pushing the stirrup forward. The pulleys on the risers reduce to 2/3 the necessary energy and the risers at the front are shortened.

Before takeoff, the Quick Hook-Up or the Quick Link must be connected at the ring on the speed system risers. It is important to note that the little chord must run free of snags. The rubbing with the risers may cause damage. The Paraglider has no further technical parts that can be adjusted.



### Warning

- An incorrect system assembly, that allows for different measurements other than the indicated above nullifies the certification!
- Remember that when using the speed system, the angle of attack decreases which may result in the
  collapse of the paraglider, consequently, the use of the speed system close to the ground should be
  avoided. We do not recommend the use of the speed system in turbulent conditions.
- Never use the speed system in extreme maneuvers.
- In the event the canopy collapses, release the stirrup immediately and make the appropriate corrections.
- Never let go of the toggles!

### **SYCROSSONE** - Harness

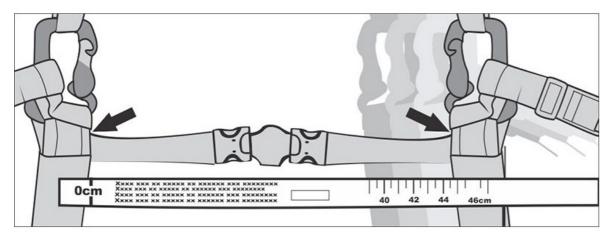
The SYCROSS ONE was tested with a harness LTF Type GH. Any harness of type ABS are recommended for the SYCROSS ONE, tested with large clips set at 42 cm and 47 cm heights from the board, depending on the harness size. Care must be taken because the large clips height affects the brake position when set at 'normal'.

The regulated distance between the large clips (adjustable at the chest) is 42 cm for the paraglider size "S" and "M", 44cm for size "L" and 46 cm for size "XL". Variations of more than 5 cm above these ones will alter the fundamental characteristics of the canopy and are potentially dangerous.

SOL give free together all gliders and harnesses, a Measuring Tape "Easy Check" to help pilots to check the distance between carbines.



The measurement has to be made at the points indicated in the graphic:





• Cross straps may jeopardize flying and do not improve safety

### **SYCROSS**ONE - Flight



### Warning

The **SYCROSS ONE** must not be used

- Out from recomended weight range;
- With motor;
- In the rain;
- Non paraglider recomended wheather conditions;
- For pilots with no knowledge
- · With passenger
- With wet equipment
- Below minus 10o. Celsius and over plus 50o. Celsius Degrees;
- Acrobatics.

### **Takeoff Weight**

The SYCROSS ONE has been certified for a defined weight range. If your weight range falls between two sizes, we recommend the following:



- 1. If you desire better speed, accurate commands, and if you usually fly over mountains and/or extreme conditions, you should choose to fly near the middle to maximum suggested weight.
- 2. If you desire a better sink ratio, and if you usually fly above flat elevations, and light conditions, you should choose to fly near the minimum suggested weight.

### First Flight

A careful First Flight is necessary with every paraglider, the SYCROSS ONE is no exception. This flight must take place on a practice hill. After unpacking the paraglider and laying out it in a horseshoe shape position, the following steps must be taken:

- The paraglider must be laid out in such a way that, when tension is applied to risers 'A', the canopy center should be extended before the extremities. This allows for an easy takeoff with good directional stability.
- Special attention must be taken to the wind's direction upon the lifting of the canopy, so that the two
  halves are inflated symmetrically.
- All lines must be organized and completely free of any entanglements. Special attention must also be given to the lines 'A', which must be free right from the risers 'A' (with the red mark) to the canopy.
- Same priority and care must be given to the brake lines, which must also be completely free and without any possibility of entanglement on any obstacle during takeoff.
- All lines should be checked and all the risers in appropriate order. When the risers are aligned and not twisted, the brake lines will be free from the pulleys (on the rear risers) to the canopy's rear edge.
- It is extremely important that no entanglements nor bunched lines are present.
- Any line going under the canopy or tie may result in disastrous consequences.
- Before and after each flight the lines, risers and canopy must be checked for any possible damage.
- In case there is any damage present, as insignificant as it may be, the canopy should not be flown!



### Warning

• It is not advisable to fly the SYCROSS ONE in rainy days or with a wet paraglider, since the in-flight maneuvers become more sensitive and a reserve deployment may occur upon exiting a B-Stoll or in the event of excessive usage of breaks.

### Takeoff Pre-flight Checklist - DO NOT FORGET

- Make sure reserve is OK! Opening device and pins activated?
- Helmet?
- · Carbines closed?
- Harness Connected all Locks closed?
- 'A' risers in hands?
- Untangled brakes in hand?
- Are you in the center of the canopy?



- Takeoff path is clear?
- Paraglider and pilot aligned with the wind?
- Airspace ahead of takeoff area is clear?
- Distance between carbines is correct?

#### **Takeoff**

#### **Forward Takeoff**

It's very easy to fly the SYCROSS ONE. When ready to takeoff, the pilot must take risers 'A', 'A1' together with the toggles. In order to differentiate between the lines, line 'A' and risers 'A' inclusive are marked with a different color.

Before takeoff, a last check is required to ensure all the equipment is laid out properly. The arms must be extended to the side, as if they are extensions of risers 'A'. A decisive run allows for a quick and stable inflation.

Canopy overtakes are not common. After the initial inflation momentum, the pilot must keep the tension forward on risers 'A' (pushing them ahead, and not pulling them downwards), until the canopy is above your head. At this point, the brakes must be carefully activated, ensuring room for the possibility of directional changes. A move to underneath the center of the paraglider is the best method for corrections, provided there is room for it. The pilot glances at last upwards to ensure the canopy is properly located above, completely unobstructed and inflated. At this point, the pilot decides whether or not to takeoff.

#### **Reverse Takeoff**

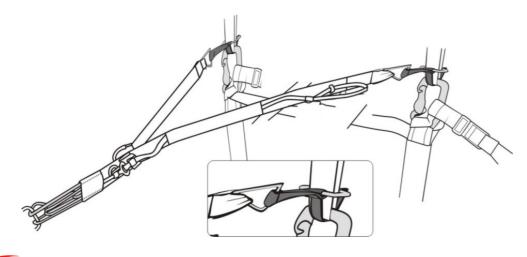
Reverse takeoffs in strong wind conditions are also very easy to execute. Due to risk of takeoff with entangled lines (twist), it is highly recommended to take some time and practice reverse takeoffs on a small, leveled hill initially.

#### Installation of tow release and auxiliary adaptation

The SYCROSS ONE can be used for towed flight as long as is connected to the towed flight system (Tow release). It must be connected to the same carbines that join the harness with the paraglider. It is activated through an activator that is strategically located and when is pulled it releases the equipment to fly.

During the taking off it's necessary to avoid a small angle of the cable with the ground.

A taking off with tow release help needs instructions and appropriate procedures. Make sure that you have the necessary knowledge and that the operation is made in a safe and correct way.





#### **Normal Flight**

The SYCROSS ONE in its normal flight, performs better with the hands lifted. Applying 20 - 25 cm the canopy enters safely the minimum speed range. In order to accelerate, use the speed stirrup.

Maximum symmetric way of brake lines, by maximum weight:

 Size S:
 65 cm

 Size M:
 67 cm

 Size L:
 69 cm

 Size XL:
 72 cm

#### **Thermaling and Soaring**

In turbulent conditions, the paraglider must be flown with the brakes softly applied. An increase in angle of attack is achieved by this measure, resulting in greater canopy stability.

The pendulum effect back and forth must be avoided! The canopy must remain on top of the pilot. For this purpose, the speed must be increased by releasing the brakes upon entering a thermal (depending on its intensity) or braking on exit. This is part of the basic technique on active flying.

During flights over the lift, it is highly recommended a minimum height of 50m be kept, for safety reasons.

It is extremely important to know and respect flying regulations, especially so when the airspace within close proximities of canyons is shared among several pilots, where last minute anti-collision maneuvers are not executable.

#### **Turns**

The SYCROSS ONE is very sensitive, responding instantly to turn commands. Leveled turns can be achieved with the shifting of weight on the risers with minimum altitude loss.

A combination of weight shifting and breaking technique is the most efficient way of executing turns in any situation. The given brake utilized determines the radius of turns.

By activating the brakes on the outside edge of the turns, as well as applying maximum weight shifting on the risers, the efficiency and resistance to collapse in turbulences (at the edge of thermals) is increased.

In case it becomes necessary to perform turns in a constrained space with the SYCROSS ONE, we recommend you to release the outside brake in the given turn and pull a little more the brake on the inside of the turn.

The SYCROSS ONE glides best when no brakes are applied.



# Warning

• By pulling either brake too strongly or suddenly, there is a danger of creating a negative spiral!

#### **Accelerated Flight**

It is recommended to use the accelerator when flying against the wind or in descending current zones. Due to a decreased angle of attack, the canopy may collapse easier than when set at the normal position. The pilot must remember that the higher the speed, the more dynamic the collapse response or symmetric closing will be.



#### 23

#### Flight in turbulent conditions

In turbulent conditions it is not recommended to fly the glider with full speed, cause the SYCROSS ONE is than more sensitive to deformation and closing. You must remember that the higher the speed, the more dynamic the collapse response or symmetric closing will be.



#### Warning

• The SYCROSS ONE requires active flying in turbulences! This can avoid canopy closings and deformations.

#### **Active flight**

For best performance during your flight, it is important to be always sensitive to what your canopy is trying to communicate. The key elements of active flying are the advancements and tension control. When the canopy moves ahead of you, carefully apply the brakes, so that the canopy returns to be above you, and if the canopy moves behind you, you must release the brakes. Flying with the brakes lightly applied (+ - 20 cm) allows the canopy to fly slightly behind. In turbulent circumstances the internal paraglider tension may change, which you will feel on the brakes. The idea is to maintain a constant tension, and in case you feel loss of tension, apply the brake.

Avoid flying excessively with the brakes on because you might brake to the point of stopping the canopy from flying. Always consider your aerodynamic speed. Your movements can be symmetric or asymmetric and both or one brake can be applied. We suggest that you do ground practice runs and advancing simulations. Tension loss can be simulated well on the ground.



### Warning

- Neither pilot nor any paraglider are immune to collapses; therefore active flying will decrease the chances of happening.
- Always maintain altitude awareness and do not get into excessive commanding mode. We advise you
  to maintain brake tension and avoid flying in extreme turbulent conditions.

#### Landing

It's very easy to land with the SYCROSS ONE. The final approach stage must be done in straight line upwind. During this final glide, the paraglider must be decelerated slowly and at about 1 m from the ground the pilot must stall the canopy, according to the conditions.

With a strong nose wind, the pilot should break only slightly or eventually don't even brake at all, and utilizing just the risers 'C' to de-inflate and overcome the canopy after the landing. By breaking during a landing in strong wind conditions, you may expose the canopy to the wind, which could lead to the pilot being dragged backwards.

The final approach must be done always in a straight line. Sharp and alternating turns may produce a dangerous pendulum movement close to the ground.

Motorized Flight, Acrobatic Flight and Tandem Flight



### Warning

• The SYCROSS ONE has not been designed for motorized flight, or acrobatics. This project is designed for only one pilot without passenger.



### **SYCROSSONE** - Fast descent maneuvers

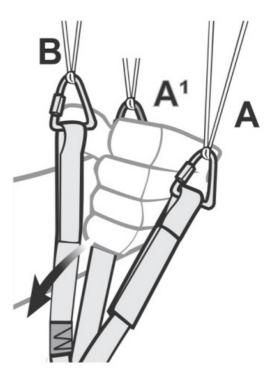


### Warning

- All fast descent maneuvers must be executed in light conditions and at sufficient altitude, so that they
  can be performed as necessary under extreme flying conditions.
- 'Full Stalls' and negative spirals must be avoided, regardless of the paraglider being flown. Incorrect recoveries and exits can result in disastrous consequences.
- The best flight technique is to fly safely and correctly. This way you will never need to descend rapidly!

#### **Ears**

By pulling simultaneously the external riser 'A1' at about 18 cm, the canopy tips will close. The canopy remains completely maneuverable through the activating of unilateral brakes or the shifting of weight towards the risers, flying at a fast descending rate (up to approximately 5m/s). In order to recover, the pilot must release the external riser 'A1' lines. Usually the canopy re-opens by itself, but the pilot can assist with a long and quick pumping.





# Warning

SOL does not recommend combining of ears and spirals, as this may exceed the allowable load.

### **Positive Spiral**

Spirals carry a high rate of descent. Therefore high accelerations (G) make it impossible to hold them for an extended period of time. The spiral force may cause the pilot to faint and to lose flying controls, and crash. Furthermore, they will exert a lot of force and affect the pilot and equipment alike.



The pilot should never exercise this maneuver in turbulences or with wide lateral angles. In windy conditions, the pilot must be aware of oscillations during the maneuver.

When the pilot activates just one brake, slowly and progressively, the paraglider inclines sideways in a sharp angle and enters a steep and quick turn, which may become a positive spiral.

During a spiral the rotation radius can be controlled by the greatest or smallest force applied to the inside brake.

In order to come out of it, the pilot must release the brake slowly and shift his/her weight lightly to the outside of the turn. A sudden exit may result in an exaggerated momentum forward of the canopy, and collapsing it. For this reason, on exiting the last turn, the inside brake of a given turn must be softly applied again.

In case the canopy collapses during this process, the spiral must be counter-acted, as the active canopy area will be reduced.



#### Warning

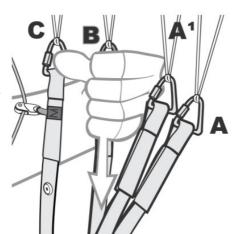
- Never combine ears with spirals. The canopy active area reduction plus the 'G' force, by the centrifugal effect, may result in line and/or canopy damage.
- Exiting of any spiral at great speeds must be piloted.
- This maneuver requires high altitudes (at least 600 meter over ground) and is dangerous due high descent ratio pilot can lose the altitude reference. Never do this maneuver without sufficient experience.

#### **B-Stoll**

To induce a 'B-Stall', the pilot must pull the risers 'B' simultaneously, between 15 and 20 cm. There will be a shift of air flow on the outer layer and the canopy will initiate a parachutal phase.

By releasing the risers 'B' quickly the airflow recoils on the outer layer and the canopy returns to its normal flight position. In case the canopy does not recover to normal flight, refer to the section on Wraps. The momentum of return creates a forward motion by the canopy. We recommend avoiding braking the paraglider eliminating the possibility of a parachutal stall.

The load applied on the 'B' lines during this maneuver is not beneficial to your paraglider. Use this maneuver only in emergencies. In the event risers 'B' are pulled too quickly or too deeply, a horseshoe may occur towards the front. In order to regain normal flight, the pilot must apply the brakes lightly.



### **SYCROSS**<sup>ONE</sup> - Behavior in extreme maneuvers and collapses



### Warning

• Extreme maneuvers must be executed under the supervision of a qualified instructor, on safe courses and with the entire infrastructure available for above ground and water flying!



### **Lateral Asymmetric Closing**

Like any other canopy, a negative angle of attack will result in a closing. In order to maintain directional control upon a lateral asymmetric closing, the brakes must be applied on the open side. In case of a major closing, the amount of braking must be well graduated, in such way to avoid the airflow displacement (stall) on the open section of the canopy.

To facilitate the canopy re-inflation during a collapse, the steps above must be followed in conjunction with a long and slow brake pumping action (2 seconds) with the toggle on the closed side. The shifting of weight on the opposite side riser of the closing will also assist with the re-inflation and increase safety, requiring less brake action and keeping away from the stall point.

In case the pilot does not compensate with the brakes, the SYCROSS ONE in most situations will inflate by itself even in major asymmetric collapses. The SYCROSS ONE can make a complete turn and in the event it does not open on its own.

Without action, the paraglider will begin a positive spiral. The pilot must lightly apply the brake on the external side to stop a spiral and at the same time shift his/her weight on the same side until the canopy is stabilized. Exactly at this stage of pendulum effect under the canopy, it is important that the pilot controls carefully the amount of force applied on the brakes, and often it is needed to decrease the force. Once a straight flight is achieved, the closed side can be re-inflated by the pumping action.



### Warning

• If the pilot does not actively terminate the spiral, it will continue all the way to the ground!

#### Line-Over

In the eventuality of lines going over the canopy during flight, the pilot must take the following steps:

- Try to maintain a straight flight: Shift the weight to the open side of the paraglider and assist with a light brake tension on the open side.
- To re-open: Pull the stabilizer line on the closed side (first line of riser 'B' of a different color) until the line entanglement is cleared.
- If the line-over is serious, if it's not possible to maintain a stable flight (spiral) and if there is sufficient altitude (>400 m), there is a chance of resolving this mal-function by executing a 'Full Stall'. In case the above maneuver does not solve the problem, or if the altitude is not sufficient, the pilot can activate the emergency parachute (reserve).



### Warning

 Line-overs are generally the result of poor preparation before takeoff, collapses during acrobatics or lateral asymmetric closings.

### **Frontal Symmetric Closing**

Risers 'A' and 'A1' are tightly pulled until a complete closing of the Leading edge is achieved, then quickly release the risers until it is closed. The pilot should not hold the risers after the closing. Special attention must be given to ensure enough altitude is available.



The SYCROSS ONE, on most instances, recovers on its own from a frontal asymmetric closing. In turbulent conditions, a head butt may occur, which must be overcome by accurate brake control.

#### **Parachutal**

The SYCROSS ONE does not have parachutal stall tendencies and recovers on its own from an intentional parachutal stall induced by braking commands. In the event of a parachutal stall upon coming out of a B-Stall, it is enough just to pull the risers 'A' downwards or the accelerator, thus reducing the angle of attack, therefore reorganizing the air flow contact to the canopy.

#### Full Stall

To create a 'Full Stall', the pilot must pull both brakes to the end, and hold them tightly in this position. In this situation, the SYCROSS ONE flies in most times on reverse, in a forward horseshoe shaped tie.

The canopy must be stabilized before the procedure for normal flight re-entry is initiated. Any attempt of recover during the beginning stages of a stall, when the paraglider reverses suddenly can result in a sudden push forward of the canopy. When recovering from a 'Full Stall', both brakes must be released slowly simultaneously and symmetrically (> = 1 second). The SYCROSS ONE will move forward gradually and begin normal flying.

An asymmetric recovery (releasing one brake before the other) of a 'Full Stall' is utilized only by test pilots to simulate a paraglider being expelled out of a thermal and must not be attempted by pilots!

### **Negative Turns**

To induce a fast Negative Turn out of normal velocity (LTF) or starting from the minimum speed (EN), the pilot must pull tightly and quickly one toggle right to the end of it. During the negative spiral, the canopy rotates relatively fast around its center, with its inner side flying backwards.

When entering an unintentional Negative Turn, the pilot must recover as soon as it is noticed by releasing the brake slightly so that the canopy will accelerate and returns to a stable flight, without losing too much altitude.

When a negative turn is intentionally prolonged, the SYCROSS ONE accelerates forward asymmetrically. A frontal asymmetric closing should not be under-estimated.

To recover from an intentional negative spiral, the pilot must release the pulled brake and pay close attention to a strong canopy surge ahead.

### Wingover

In order to perform a 'Wingover' the pilot must generate a strong pendulum effect by alternating turns on both sides. A complete closing of the canopy is possible.



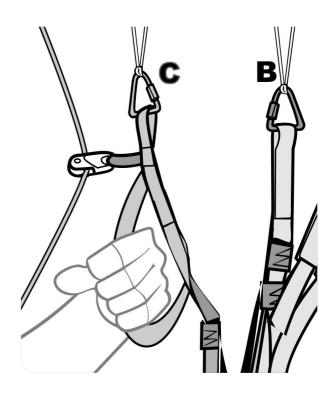
A turn with an incline beyond 60° is considered acrobatic.



### **Emergency Flying**

In case braking controls are impossible, the canopy can be driven by utilizing risers 'C' and eventually land. Pay close attention to the length of the command, which should be shorter than braking commands.

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### **SYCROSS**<sup>ONE</sup> - Up-keep and care



### Warning

A good maintenance extends the life of your SYCROSS ONE for many years to come.

### Storage

The SYCROSS ONE fabric is made mainly out of Nylon, which like any other synthetic material is sensitive to UV light radiation, causing it to decompose, losing its mechanical resistance, and thus increasing its porosity. For this reason, the unnecessary exposure to sun light, which carries a high UV radiation level in high altitudes must be avoided. It is highly recommended to leave the paraglider stored away and well protected when it's not being used in a dry place, protected from UV light and away from chemical products. Avoid keeping the paraglider in places with high temperature (trunk of the car).



# Warning

After an accident or long time without using the paraglider must be checked.



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### **Backpack**

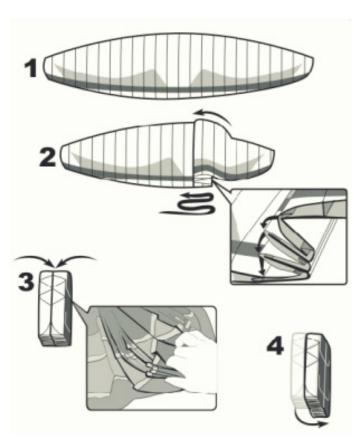
Your backpack was designed with comfort and practicality in mind. It's format allows for good content distribution. Shoulder straps and back support are padded so that comfort is not compromised during walks.

### Folding your paraglider

By following each step properly, you will be helping to preserve the life span of your equipment:

- Open the canopy completely on the ground.
- Place all the lines spread by the inner layer and risers in the middle outside the canopy on the trailing edge.
- We recommend folding your paraglider like an accordion. This will keep the profile reinforcements (Mylar/Carbon) from being crumpled and/or folded. By using this folding method, the paraglider will keep its takeoff and flight characteristics for longer.
- Keep folding to approximately 50 cm.
- Remove all the air by sliding your hand from the trailing edge to the leading edge.
- Make sure the volume is a little smaller than the protection bag.
- Avoid multiple folds at the same place.

### Steps to fold the canopy



- 1. Open the canopy completely
- 2. Packing the glider "accordion wise" as show in the figures
- 3. Place each profile reinforcement over the corresponding cell.
- 4. Bring together the two parts and roll the canopy up without compressing too strongly.

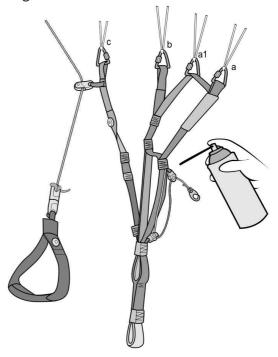


### Cleaning

Cleaning must be performed only when it is absolutely necessary. We recommend the use of water only with a smooth sponge or cloth. Do not use any chemical product, since it will damage the material permanently.

### **Pulleys**

It is important you keep pulleys lubricated because in case they do not work may consume the speedy handle or axle, apply paraffin or lubricant spray, read carefully about the lubricant to avoid spots and fabric consume. Do not apply on the sewing lines.





When buying the lubricant make sure that this product do not attack the material properties. This may
affect the fabric and lines resistance.

## Recommendations for a long life

- The SYCROSS ONE lines are made of Vectran. Individual line overloads beyond the normal range in flight
  must be avoided, because an excessive deformation of the line is irreversible, and becoming permanent.
  The same way, folding and creasing the lines must be avoided, specially the main lines. Never step over
  the lines or canopy, above all on hard surface.
- The canopy must be opened only on a clean surface area, since dirty can penetrate in the canopy's fiber, shorten the lines or spoiling the fabric. The lines must be kept from any entanglements on takeoff to prevent excessive deformation. Avoid storing the paraglider for long periods in areas with high humidity or heat, this causes premature aging of the materials. Keep away sand, stones or snow from entering the canopy cells because any weight on the trailing edge slows the canopy down, possibly creating a stall, furthermore, sharp corners may cut the fabric.
- During takeoffs and landings in windy conditions, a run-away canopy may hit the ground strongly and the shock may rupture the material.



- In case of line entanglement the brake lines may peel-off or a main line may get cut by a brake line, due to friction.
- On landing, avoid letting the Leading Edge fall forward and downward towards the ground because this may damage the materials that form the front of the paraglider and/or rip the sewn areas.
- The manipulation of the paraglider during ground takeoff, or a lot of wind speed up the aging process of your equipment.
- After a tree or water landing, the lines must be checked and tested. In case of salt-water contact, the
  paraglider must be soaked and washed with fresh water. Salt water might decrease the lines' resistance
  even if soaked with fresh water. The lines must be changed after contact with salt water.
- Never dry the paraglider directly under the sun. This must be done in a shaded area.
- After an accident send the paraglider for inspection to the manufacturer or distributor.



#### Atenção

 Your SYCROSS ONE was designed, tested and certified to perform the best. Any alteration of your paraglider will nullify your certification and jeopardize your safety. For these reasons we strongly recommend you to avoid altering anything on your paraglider.

## **SYCROSS**<sup>ONE</sup> - Inspection

The first inspection check is mandatory completing 24 months or 100 flights, whichever comes first.

After the first inspection any wing has to be checked yearly or at each 100 flights, whichever comes first. In any of these inspections may occur that a shorter period of time for the next inspection will be defined (f. ex. 6 months or 50 flights). It is of utmost importance to follow these guidelines. Without performing the mandatory inspections, the paraglider loses its certification and the respective SOL warranty becomes null and void.

Always check your equipment after an incident or in case the canopy has been stored for a long time. In case of excessive use (permanent spirals and other extreme maneuvers) the period of inspection has to be shorter.

Repairs must be performed only by the manufacturer, distributor or authorized personnel. Minor repairs could be handled by yourself, although we recommend that repairs should be performed by the manufacturer or authorized personnel. They have the necessary materials and tools to maintain your glider.

## **SYCROSS**<sup>ONE</sup> - Repairs

#### Tears

Along with your kit you get small adhesives for repair. Small tears up to 10 cm away from the line points may be fixed by you. Beyond that we advise you the maintenance be made by the manufacturer or by the registered workshop.

- Clean the spot where the adhesive will be applied with a humid cloth.
- It must be at least 2,5 cm more of the adhesive than the tear.
- Make the edges rounded to avoid to unglue after is glue.
- Apply on both sides of the tear.



### Line breakage

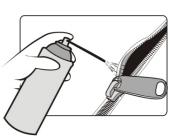
Along with your kit you get a 1.1 thickness line to make a little repair. When you repair we advise you to sew the unsowed point after you check the measure. Do not knot because it may diminish up to 80 % of the line resistance.

### **Sealing**

Along with your kit you get sealing for the carbines. Do not leave your risers without them because they avoid the movement of the screw nut making it impossible their opening.

### Zíper

The backpack zipper must open and close softly. If there is any difficulty to move it you must apply paraffin or a spray lubricant to diminish the attrition among the components. You will notice the difference when you move it.



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It is possible most of the times you fix by yourself the zipper. In case it does not close any more just pull it until the beginning of the position and with a pliers press both sides of the zipper.





### Warning

• We advise you the maintenance and repairs be made by the manufacturer or by a registered workshop.

# **SYCROSS**ONE - Warranty

Every paraglider manufactured has a Warranty of 3 Years or 300 Hours of Flight, whichever comes first.

#### **Warranty Terms**

- 1. This warranty is valid for all SOL Paraglliiders with LTF, EN or AFNOR certification, rated for leisure use only. The warranty includes defective materials and production errors.
- 2. This warranty does not include paragliders rated for professional use (school, competitions, aerobatics, etc). All paragliders used for competition or acro have a 1 year warrant for production errors.
- 3. This warranty is defined as repair or substitution of the defective paraglider parts determined by the producer.



### **Warranty Pre-requisites**

- 1. A three-copied filled-out form: One copy to be sent to SOL Paragliders within 30 days after purchase; one copy to the sales person and one copy to the purchaser.
- 2. All flights must be logged providing information on date, place and length of flight.
- 3. The equipment must be kept in accordance with the instructions provided in this manual. All the storage, folding, cleaning and care instructions must be carefully taken.
- 4. Maintenance and inspections can only be performed by the manufacturer or authorized shop and must be properly documented.
- 5. The first inspection check is mandatory completing 24 months or 100 flights, whichever comes first. After the first inspection any wing has to be checked yearly or at each 100 flights, whichever comes first. In any of these inspections may occur that a shorter period of time for the next inspection will be defined (f. ex. 6 months or 50 flights). It is of utmost importance to follow these guidelines. Without performing the mandatory inspections, the paraglider loses its certification and the respective SOL warranty becomes null and void.
- 6. All shipping and handling expenses are paid by the owner.
- 7. The final decision on exchanging or repairing the equipment will be decided by SOL Paraglliiders. The corresponding equipment has to be sent to SOL Paragliders in the following way:
- a) Accompanied by a copy of all inspections and a log of all flights.
- b) Accompanied by a copy of the SOL Paragliders warranty form.

### This warranty does not cover

- 1. Any alterations on original fabric colors, lines and risers.
- 2. Any damage caused by chemical products, sand, friction, cleaning products or salt water.
- 3. Any damage caused as a result of errors during operation of the Paraglider, incidents or emergency situations.
- 4. Any damage caused by inadequate operation of the Paraglider.
- 5. Paragliders that may have been subjected of any alteration from the original design and without proper permission from **SOL Paragliders**.
- 6. Damages caused by inappropriate transport, storage or settings of the paraglider.
- 7. Damages caused by the use of not compatible components with the paraglider.
- 8. Damages caused by the use of inappropriate packaging for the transport.
- 9. Paragliders without original identification label and serial number.
- 10. Handling inadequately to the instructions given in the owner's manual.



### **SYCROSS**<sup>ONE</sup> - Nature and environment

Apart from self-evident things, like not leaving your rubbish behind, we would like to appeal for a thoughtful behavior towards animals, like birds of prey or game animals. If you notice, that your fly by affects those animals (like causing a shortening reaction) please increase your distance.

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#### SYCROSS<sup>ONE</sup> - Out of use

Disused paragliders need a proper disposal. If you are not sure about the correct removal, please send your glider to SOL or your flying school.

#### Final words

Safety is the major theme of our sport. In order to fly safely, pilots must train, study, practice and be alert to the dangers around us.

In order to achieve excellent safety levels, we must fly regularly as much as possible, don't go beyond our limitations and avoid exposing ourselves to unnecessary dangers.

Learning to fly is a slow process and takes years, so don't pressure yourself. If conditions are not favorable, keep your equipment stored away.

Don't overestimate your skills and be honest with yourself. Every year we see many accidents which in most cases could be prevented with a minor adjustment.

We are a part of the community in which we live: friends, family and even people we don't necessarily know worry about us. Our obligation towards this community is to keep ourselves healthy and that at each landing we will be one landing happier than before. We fly so that we can feel more alive.

We wish you good and safe flights with your SYCROSS ONE.





### **SYCROSS**<sup>ONE</sup> - Certification

#### SYCROSS<sup>ONE</sup> S

# Gleitschirm - Paraglider

### **SOL SYCROSS ONE - S**

Vor Gebrauch Betriebsanweisung lesen! Read owners manual before using this product



SOL Sports IND. E COM. LTDA Rua Walter Marquardt 1180 CEP: 89259-700 Jaraguá do Sul-SC - Brazil info@solsports.com.br www.solsports.com.br

1usterprüfnummer	/ Type testing No:	EAPR-GS-0505/16
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Angewandte Prüfrichtlinien: LTF91/09; 926-1:2006 & 926-2:2013

Applied norms:

Musterprüfstelle / Testlaboratory Center: EAPR GmbH

87730 Bad Grönenbach Germany - www.eapr.eu

Klassifizierung / Classification: LTF - EN B

Schulungstauglich / Suitable for school use: Nein / No

### **Betriebsgrenzen / Limitations**

Gurtzeugbeschränkung / harness restrictions: GH

Fluggewicht / Total weight in flight: 75kg - 90kg

Sitzzahl / Number of seats: 1

Windenschlepp / winch: ja / yes

Nachprüfintervall / Periodical check: 24 Monate oder 100 Flugstunden

24 month or 100 hours of flying

### Merkmale / Notes

Trimmer / Trimmer: nein / no
Beschleuniger / Accelerator: ja / yes 12cm

Gewicht (ohne Packsack) / Weight without bag: 5,3 kg

Bemerkung / Comment: Keine / none
Fläche projiziert / Projected Surface: 4 (A, A¹, B and C)

Fläche projiziert / Projected Surface: 20,51 m<sup>2</sup>

Herstellungsdatum: Date of manufacture:		
Stückgeprüft durch Conformity checked by:		
Serien-Nr.	Monat/ Jahr	
Serial No.:	Month/ Year:	



### SYCROSS<sup>ONE</sup> M

# **Gleitschirm - Paraglider**

### SOL SYCROSS ONE - M

Vor Gebrauch Betriebsanweisung lesen!
Read owners manual before using this product



SOL Sports IND. E COM. LTDA Rua Walter Marquardt 1180 CEP: 89259-700 Jaraguá do Sul-SC - Brazil info@solsports.com.br www.solsports.com.br

Musterprüfnummer / Type testing No: EAPR- GS-0480/16

Angewandte Prüfrichtlinien: LTF91/09; 926-1:2006 & 926-2:2013

Applied norms:

Musterprüfstelle / Testlaboratory Center: EAPR GmbH

87730 Bad Grönenbach Germany - www.eapr.eu

Klassifizierung / Classification: LTF - EN B
Schulungstauglich / Suitable for school use: Nein / No

### **Betriebsgrenzen / Limitations**

Gurtzeugbeschränkung / harness restrictions: GH

Fluggewicht / Total weight in flight: 85 kg - 100 kg

Sitzzahl / Number of seats:

Windenschlepp / winch: ja / yes

Nachprüfintervall / Periodical check: 24 Monate oder 100 Flugstunden

24 month or 100 hours of flying

### Merkmale / Notes

Trimmer / Trimmer: nein / no
Beschleuniger / Accelerator: ja / yes 12cm

Gewicht (ohne Packsack) / Weight without bag: 5,6 kg

Bemerkung / Comment: Keine / none
Fläche projiziert / Projected Surface: 4 (A, A¹, B and C)

Fläche projiziert / Projected Surface: 22,03 m<sup>2</sup>

Herstellungsdatum: Date of manufacture:	
Stückgeprüft durch Conformity checked by:	
Serien-Nr.	Monat/ Jahr
Serial No.:	Month/ Year:



#### SYCROSS<sup>ONE</sup> L

# Gleitschirm - Paraglider

### **SOL SYCROSS ONE - L**

Vor Gebrauch Betriebsanweisung lesen! Read owners manual before using this product



SOL Sports IND. E COM. LTDA Rua Walter Marquardt 1180 CEP: 89259-700 Jaraguá do Sul-SC - Brazil info@solsports.com.br www.solsports.com.br

√Justerprüfnummer	/ Type testing No:	EAPR-GS-0498/16
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Angewandte Prüfrichtlinien: LTF91/09; 926-1:2006 & 926-2:2013

Applied norms:

Musterprüfstelle / Testlaboratory Center: EAPR GmbH

87730 Bad Grönenbach

Germany - www.eapr.eu

Klassifizierung / Classification: LTF - EN B
Schulungstauglich / Suitable for school use: Nein / No

### **Betriebsgrenzen / Limitations**

Gurtzeugbeschränkung / harness restrictions: GH

Fluggewicht / Total weight in flight: 95kg - 110kg

Sitzzahl / Number of seats: 1

Windenschlepp / winch: ja / yes

Nachprüfintervall / Periodical check: 24 Monate oder 100 Flugstunden

24 month or 100 hours of flying

### **Merkmale / Notes**

Trimmer / Trimmer: nein / no
Beschleuniger / Accelerator: ja / yes 12cm

Gewicht (ohne Packsack) / Weight without bag: 6,1 kg

Bemerkung / Comment: Keine / none
Fläche projiziert / Projected Surface: 4 (A, A¹, B and C)

Fläche projiziert / Projected Surface: 23,37 m<sup>2</sup>

Herstellungsdatum: Date of manufacture:	
Stückgeprüft durch Conformity checked by:	
Serien-Nr.	Monat/ Jahr
Serial No.:	Month/ Year:





# **Gleitschirm - Paraglider**

## **SOL SYCROSS ONE - XL**

Vor Gebrauch Betriebsanweisung lesen! Read owners manual before using this product



SOL Sports IND. E COM. LTDA Rua Walter Marquardt 1180 CEP: 89259-700 Jaraguá do Sul-SC - Brazil info@solsports.com.br www.solsports.com.br

Musterprüfnummer / Type testing No: EAPR-GS-0506/16

Angewandte Prüfrichtlinien: LTF91/09; 926-1:2006 & 926-2:2013

Applied norms:

Musterprüfstelle / Testlaboratory Center:

87730 Bad Grönenbach Germany - www.eapr.eu

Klassifizierung / Classification: LTF - EN B
Schulungstauglich / Suitable for school use: Nein / No

### **Betriebsgrenzen / Limitations**

Gurtzeugbeschränkung / harness restrictions: GH

Fluggewicht / Total weight in flight: 105kg - 125kg

Sitzzahl / Number of seats:

Windenschlepp / winch: ja / yes

Nachprüfintervall / Periodical check: 24 Monate oder 100 Flugstunden

24 month or 100 hours of flying

#### Merkmale / Notes

Trimmer / Trimmer: nein / no
Beschleuniger / Accelerator: ja / yes 12cm

Gewicht (ohne Packsack) / Weight without bag: 6,5 kg

Bemerkung / Comment: Keine / none
Fläche projiziert / Projected Surface: 4 (A, A¹, B and C)

Fläche projiziert / Projected Surface: 25,46 m<sup>2</sup>

Monat/ Jahr Month/ Year:



Flight Log

Size:	
Serial Number:	
Date of purchase:	
Purchased from:	

Date	Duration	Site	Flight Details



# Inspection

Owner:	
Address:	
Phone:	
Date:	

Item	Condition
Cells	
Dacron re-enforcements	
Тор	
Bottom	
Leading Edge	
Tabs	
Upper A-Lines	
Upper B- Lines	
Upper C- Lines	
Midle A- Lines	
Midle B- Lines	
Midle C- Lines	
A-Main-Lines	
B-Main-Lines	
C-Main-Lines	
Stabilizers' Lines	
Brake-Lines	
Internal Cell Walls	
Cross Ports	
Maillon Rapides	
Toggles	
Risers	
Porositätstest	
Observations:	

