

Boost Owner's Manual



Please read this manual prior to your first flight with the Boost.

Thank you...

Thank you for choosing the Boost. We are confident that this paraglider will provide you with countless happy experiences as you progress in your flying career. This manual contains all the information you need to fly and maintain your paraglider. A thorough knowledge of your equipment will keep you safe and enable you to maximize your full potential.

Please pass on this manual to the new owner if you ever resell your glider.

Happy Flights and Safe Landings,

The GIN Team

Safety Notice

By the purchase of our equipment, you are responsible for being a certified paraglider pilot and you accept all risks inherent with paragliding activities including injury and death. Improper use or misuse of GIN equipment greatly increases these risks. Neither Gin Gliders Inc nor the seller of GIN equipment shall be held liable for personal or third party injuries or damages under any circumstances. If any aspect of the use of our equipment remains unclear, please contact your local paragliding instructor, GIN reseller or the importer in your country.



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1. Gin Gliders

Gin Gliders was formed in 1998 by paraglider designer and competition pilot Gin Seok Song and his team of engineers and test pilots.

Gin's philosophy is simple: to design gliders that he, and any other pilot, loves to fly. This philosophy applies equally for an entry-level wing such as the Boost, as for the world-beating competition glider, the Boomerang. No glider is released to the market without Gin's complete satisfaction.

Gin has been designing and manufacturing paragliders since 1986, and is backed by an equally experienced team, both within the company in Korea and throughout a worldwide network of distributors and dealers. The "GIN Team" has dominated the Paragliding World Cup every year since 1998, and has had countless other competition successes in World Cups, World and National Championships. This high level of expertise provided by dedicated professionals ensures that you get the best possible product support and after sales service.





2. Introducing the Boost

The Boost is a new concept in an entry-level wing. The Designers, Gin Seok Song and Robert Graham, have drawn on all their years of experience to produce a wing that is uniquely in tune with the needs of today's pilots. The Boost offers outstanding security, with precise but forgiving handling. This allows the pilot to accurately feel the sensations of flight, and thus develop an active flying style. Rapid progression up the learning curve is enabled, as the pilot becomes well acquainted with the myriad of different movements and moods of the air. The Boost will allow you to experience the full pleasure of free flight, without ever compromising your safety.

For Pilots Who...

The Boost is an ideal first glider, and is also suitable for the more experienced club pilot who flies infrequently and wants a good performing glider with the highest safety margin. The Boost is designed for all kinds of flying, from the first steps at the paragliding school training slope via ridge soaring to thermalling and cross country.

Cutting-edge Design

Gin and Robert have made extensive improvements in the Boost compared to other school gliders. Safety performance, take-off, landing and handling characteristics have been improved without sacrificing security.

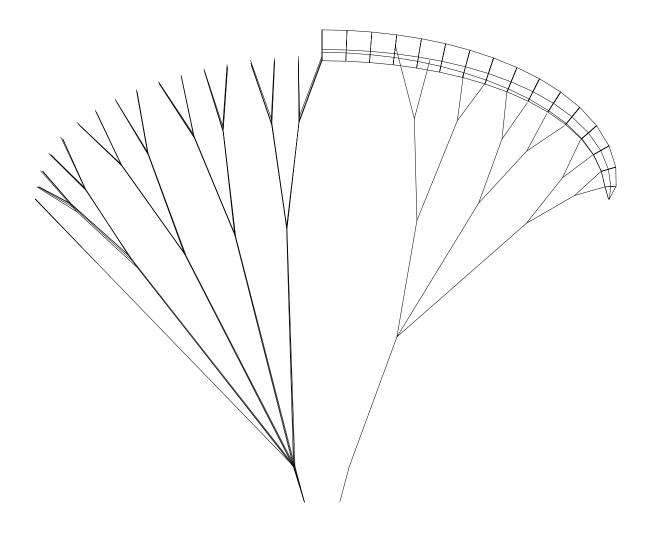
Wind tunnel research and new software to optimize the shape of the leading edge has produced an even cleaner airfoil.

The new shape of the wing tip improves the performance in flight by reducing the induced drag.

A double reinforcement at the leading edge has been introduced. This improves take-off characteristics, performance and increases the lifetime of the canopy.

The brake line layout features an extra upper line that gives the wing an even more precise feel.

Doorst 5



Manufacturing

All GIN gliders are produced in the company's own facilities using the most modern techniques. Highly skilled staff takes extreme care during the entire manufacturing process. Stringent quality control is made after each step, and all materials that go into each wing can be traced. These measures guarantee that pilots fly with the assurance that their wing meets the most exacting manufacturing and safety standards.

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3. Before you fly

Pre-delivery Inspection

The Boost is delivered with speed system, rucksack, inner bag, compression strap, repair tape and this manual. Your instructor or dealer should have made a test inflation followed by a test flight before delivery.

Speed System

The speed system increases the maximum speed by lowering the angle of attack with a pulley-guided, foot-operated system. Approx. 10 km/h gain in speed can be realized with the accelerator at full travel.

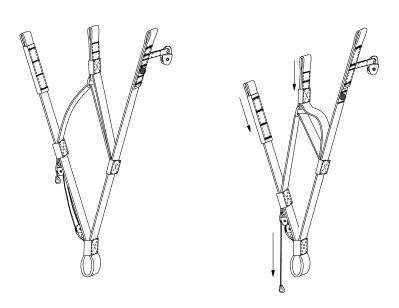
It is important to have your accelerator system correctly routed through your harness and attached to the risers with the supplied Brummel hooks. The length of the speed bar should be initially adjusted while on the ground, sitting in the harness so that the legs are fully extended at the point of full accelerator travel. It is helpful to have an assistant hold the risers taut while making this adjustment. Subsequent fine tuning can be done on the ground following the first flight with the speed system. If in doubt about this procedure, consult your instructor or dealer.



The Boost is equipped with a unique acceleration system that offers the pilot increased feedback through the speed bar pressure. The "Kick-Down System" helps the pilot to be more aware of the incidence of the wing and therefore glide performance. At 50% acceleration there is a marked increase

in pressure to alert the pilot of his position along the polar curve.

Riser	А	В	С
length at trim speed	50cm	50cm	50cm
length at full speed	38cm	44cm	50cm

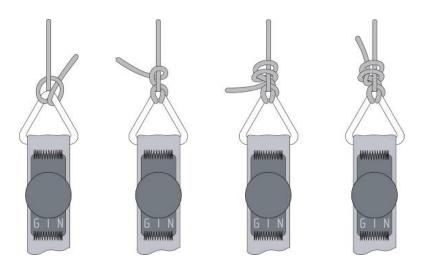


boose

Brake line adjustment

The main brake line lengths of the Boost correspond to the tested results of EN/LTF. These line lengths have been fine tuned by GIN test pilots, and it should not be necessary to adjust them. In soaring flight, it is common to fly with half a wrap on the brakes. However, care should be taken to release the wraps in any extreme situation.

If you do need to make adjustments to suit your harness, body and flying style, we strongly recommend that you test fly the glider with every 2cm of adjustment. There should be a minimum of 10cm of free brake travel when the glider is flown hands-off. This prevents the brakes being applied unintentionally when the speed system is fully engaged. We recommend a double sheepshank or a bowline knot for the brake handle attachment as shown in the diagram.



Rucksack

All Gin gliders are delivered with a durable ripstop KODURA® rucksack, designed for ergonomic carrying comfort and ease of use.

The rucksack should be packed carefully to achieve maximum comfort. First, place the glider inside the harness and then put the top of harness in the bottom of the rucksack with the glider side next to the back of the rucksack. Finally, tighten the internal and external compression straps and adjust the shoulder and waist straps to ensure the equipment stays firmly in place when walking. There are also two storage pockets for accessories.

An XXL rucksack (200L capacity) is available as an optional extra for pilots that require it. 90 I. lightweight rucksack able to include all your light equipment (paraglider, light harness, rescue system, helmet...) is also available as option. Not only made for ultra-light equipment, you can easily pack your light equipment and normal wing inside. You can also carry in and on your mountaineering equipment.

ENGLISH







Your harness

The Boost is certified for use with all harnesses with variable cross-bracing (GH type). 99% of harnesses produced after 1993 are of the GH type. Older harnesses with fixed cross-bracing (GX type) are not certified and should not be used. Check with the manufacturer of the harness or your paragliding instructor if in doubt.

The adjustment of the harness chest strap controls the distance between carabiners and affects the handling and stability of the glider. Tightening the chest strap increases stability, lengthening it gives more feedback from the glider and decreases stability.

Gin calculates and draws the plan of the glider with a distance between the carabiners of 44cm. We recommend a setting a distance of 42cm to 50cm between the carabiners, depending on the size and design of the harness. There is no need to fly with a tight chest strap setting with the Boost, as there is no tendency for it to feel unstable, unlike older gliders.

Certified Weight Range

The Boost must be flown within the certified weight range given in the reference section at the back of this manual. The weight range is quoted as the total weight in flight, i.e. the weight of the pilot, glider, harness and accessories. The easiest way to check your total weight is to stand on weighing scales with all your equipment packed into your rucksack.

Pre-flight safety

To fly this equipment you should:

Have appropriate practical and theoretical training and experience for this class of glider. Have the necessary insurance and licences.

Be in your right mind, unaffected by extreme stress, recreational or prescribed drugs. Only fly in conditions suitable for your level of paragliding.

Wear suitable head protection, use a certified harness and emergency parachute. Make a thorough pre-flight check.

4. Flying the Boost

We recommend that you first practice inflating your glider on a small training hill, or flat ground. Make your first flights with your new paraglider in gentle conditions on a familiar flying site.

Preparation for launch

Following a consistent method of preparation and pre-flight checks is vital for safe flying. We recommend the following:

On arrival at the flying site, assess the suitability of the conditions: wind speed and direction, airspace, turbulence and thermal cycles.

Inspect your glider, harness, reserve handle and pin, helmet and any other equipment.

Choose a sufficiently large take-off area with even ground and no obstacles.

Lay the glider out according to the plan form, and get the lines and risers sorted out.

Secure yourself in your harness and don't forget the leg loops! Put your helmet on.

Connect the risers to your harness carabiners, ensuring there are no twists or loops around the lines.

Connect the speed system to the risers with the Brummel hooks.

Do a final line check by pulling gently on the risers or lines to ensure there are no new knots, tangles or interfering branches or rocks. Take extra care in nil or light winds.

Pre-flight check list

Reserve parachute: pin in and handle secure.

Helmet and harness buckles closed.

Lines free.

Canopy open and into wind.

Airspace clear.

Take off

The key to a successful launch technique is to practice ground handling on flat ground whenever you can.

Light or Nil Wind Launch

The Boost inflates steadily in nil-wind conditions. Simply guide the glider with the A-risers, keeping your arms bent and hands at the level of the shoulders. Allow your arms to rise in an arc and wait for the glider to inflate and come above your head – do not push the risers. There is no need to pull the risers hard. Run positively as the glider comes above your head. Be sure to look up and check that the canopy is fully inflated before you take-off, and that there are no tangles in the lines. If any irregularity should occur and you're not yet airborne, abort the launch immediately by stalling the glider. On steep launches, stall one side of the glider and run parallel to the hill.

If the glider should come up sideways, and the situation is recoverable, run towards the lower side rather than trying to struggle against the force.



An impulse launch where you start running with slack lines close to the glider is not needed.

Strong Wind Launch

The reverse launch technique is recommended. Holding the brakes, turn around to face the wing passing one set of risers over your head as you turn. We suggest building a "wall" by partially inflating your glider on the ground, thus sorting lines out thoroughly. Check the airspace is clear and gently pull the glider up with the A risers. When the glider is overhead, check it gently with the brakes, turn and launch. In stronger winds, be prepared to take a couple of steps towards the glider as it inflates and rises.

Line knots or tangles

If you do take off with a line knot or tangle, try to get clear of the ground and any traffic before taking corrective action. Weight shift and/or counter brake to the opposite side and pump the knotted side with your brake. Be careful not to fly too slowly to avoid a stall or spin. If the knot or tangle is too tight to pump out, immediately fly to the landing zone and land safely.

Min Sink / best glide

The minimum sink speed is achieved by pulling approximately 30 cm of brake. The theoretical best glide speed in calm air is realized at the hands-off position.

Accelerated flight

Once you have become accustomed to flying the Boost, you can practice using the speed system, which allows improved glide in headwinds and greater penetration in strong winds.

Apply the speed system by pushing the speed bar progressively with your feet. Be prepared to control roll by using weight shift and pitch by varying the amount of bar. Keep a very light pressure on the brakes in order to feel the canopy.

Avoid flying accelerated near the ground, and don't use more than half the maximum travel in turbulence.

If you do encounter a collapse while using the accelerator, step off the bar first before taking any other corrective actions.

Active Flying

The Boost has a high internal pressure, resistance to tucking and a very high degree of passive safety. However, it is recommended that at this stage you already start practising an active flying style. This will help you avoid deflations in all but the most turbulent conditions. The key to active piloting is keeping the glider above your head at all times. If it falls back behind you, let up the brakes. If it surges in front of you, counter brake until the surge is controlled. If you sense a loss of pressure on one side of the canopy, smoothly apply brake and/or weight shift on the appropriate side until you feel pressure return. In all cases, maintain adequate airspeed and avoid overreaction.

Licenses 11

In turbulence

Deflations of the canopy can occur in strong turbulence. The Boost will recover without pilot input in almost all situations, so whenever in doubt, let up the brakes and let the glider fly. However, it is recommended that you follow the advice below in order to help the wing recover more rapidly.

Asymmetric deflation

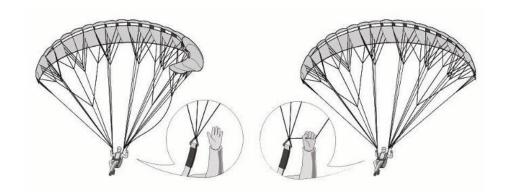
In the event of encountering strong turbulence and suffering an asymmetric deflation (collapse on one side), the Boost will promptly and easily re-inflate without interference from the pilot, but the course might alter slightly. This might be unwanted close to the ground or other gliders. Maintain your course by weight shifting away from the collapsed side. This action can be aided by applying a little force on the brake opposite to the deflation. This will normally be sufficient. However, if the deflation fails to come out, pump the deflated side with a firm and smooth pumping motion. Let the glider regain its flying speed after it has re-inflated.

Symmetric deflation

A symmetric (frontal) deflation will come out promptly without pilot input. The glider will regain airspeed with a small surge. If counter braking, be careful not to over-correct.

Cravat / glider wrapped around lines

A cravat occurs after a severe deflation when the wingtip becomes trapped in the glider lines. It is extremely unlikely to occur on the Boost. Nevertheless, the pilot should be familiar with the procedure for correcting it. Counter brake and/or weight shift and pump the brake on the tangled side. On all Gin gliders, there is a separate stabilizer/winglet main line that goes down to the B riser. This line usually comes slack in the event of a cravat. Pull it down completely until it comes tight and the cravat normally comes out.



Cascade of events

Many reserve deployments are a result of a cascade of over-corrections by the pilot. Please note that over-corrections are often worse than no input at all.

Flat spin

In normal thermalling flight, you are very far from the limits of a flat spin. Nevertheless, should this occur, just let up the brakes and wait for the glider to surge forward.



Full stall, dynamic stall

This is an extreme manoeuvre and there should never be any need to perform one.

Do not take wraps with your brakes before entering a full stall. Keep your hands close to your body during the stall, and lock them under your harness seat plate if necessary. In a stable full stall, the canopy will oscillate back and forth. Before releasing the stall, raise your hands slightly and evenly to fill the glider with air. If possible, let the brakes up when the glider is in front of you to avoid excessive surge. The Boost will slow down the surge on its own, but you may counter brake the dive briefly for comfort if needed and then let up the brakes to regain airspeed. Be careful to not stall the glider again when damping the surge.

Never attempt a stall and then change your mind and release the brakes, as the glider will surge radically.

Deep stall (parachuting, stable stall)

The Boost does not have a tendency to get into nor stay in a deep stall. Should this nevertheless occur, put your hands on the A risers and push forward to gain speed. On some modern harness/accelerator setups, you can reach the speed bar without using your hands. If so, push the speed bar. Never try to steer out of a deep stall.

You can recognise a deep stall by the glider getting "mushy" and the airflow around your ears decreasing. This situation is usually achieved by flying in turbulence or exiting a deflation with too much brakes applied.

Losing altitude

Extremely strong and widespread lift is found, for example, in storm conditions. The best place to be in this situation is on the ground. Nevertheless, if you've been caught out by the weather and find yourself needing to descend rapidly, there are several ways to do so. The best way is, of course, to find sink. Failing that, try one of the techniques below. They are presented in order, from the least to the most extreme. Most of these techniques place undue stress on your glider, and should be avoided if your wish to extend its lifetime. We recommend you initially practice these manoeuvres under qualified supervision during a safety training course.

Big ears

Big ears are a safe method of moderately losing altitude while maintaining some forward speed. Pull in big ears with the outer "A" line on each side. The Boost is fitted with a "big ears kit" to facilitate this process. Simply pull the red handles Velcroed to the risers outwards and downwards as shown.





Although the noise of the wind around your ears may indicate the airspeed improves, you forward speed does not improve with big ears. You may use the speed bar in combination with big ears to maintain your forward speed but increase the sink.

The glider can be steered while in big ears using weight shift alone.

When releasing the lines, the Boost's ears will come out on their own. Release the big ears at least 100m above the ground. If this is not possible, keep the big ears in until you flare for landing rather than letting them out on the approach. This is a safer method because of a possible wind gradient close to the ground and your low airspeed/high wing loading with big ears in.

Spiral dive

The spiral dive should be considered an extreme manoeuvre. Practice spiralling with caution and lower sink rates to get a feel for the Boost's behaviour. Weight shift and pull the brake on one side gradually. Let it accelerate for two turns and you will enter the spiral dive. Once in the spiral, you can control your descent rate and bank angle with weight shift and the outer brake.

WARNING! A pilot who is dehydrated and/or not accustomed to spiralling can lose consciousness in a steep spiral dive! As with all types of aircraft, we advise you to assist the glider to exit from the spiral dive in a controlled manner. Let the glider decelerate for one or two turns by applying outer brake and/or weight shift. In the DHV-certification test, the automatic and spontaneous exit from a spiral dives is tested up to a sink rate of 14m/sec.

B-stall

To quickly lose altitude without straining your body with G-force you can use the B-stall. Reach up to the B-risers just below the maillons and twist your hands while gently pulling. It will be difficult at first, but become lighter the more you break the aerofoil. Once pulled, do not release immediately. The glider needs to settle into a stable B-stall before releasing. On exiting the B-stall the Boost has a very gentle dive without deep stall tendencies. We advise you to release the B-stall symmetrically with both hands in a decided manner.

Steering without brakes

If a brake is not operational for some reason, you can steer the Boost with the D-risers. Add steering input by weight-shifting in your harness. Be careful not to steer too much with the riser to avoid any possibility of a spin.

Aerobatics

The Boost is not designed for aerobatics. Besides the inherent risks, extreme manoeuvres of any kind place unnecessary stress on the glider and effectively shorten its lifespan.

Landing with the Boost

Select a familiar landing area free of obstacles and carefully note the wind speed and direction in the landing area. The low minimum flying speed of the Boost will help you to make a soft landing in all conditions. Approach the landing with sufficient airspeed and don't leave your last turn too late or too steep.



Before landing, slide your legs forward in the harness so that you adopt the standing position. NEVER land in the seated position; it is very dangerous for your back even if you have back protection, which is only a passive safety system. Standing up before landing is an active safety system, and is much more effective.

Tow launch

The Boost is suitable for towing by pilots who have the relevant towing qualification. The Boost has no tendencies towards deep stall/parachuting. There is sufficient margin to counter steer the glider in a normal towing situation. Make sure you use proper equipment, experienced personnel, the recommended techniques and all relevant safety precautions for towing.

Motorized flight

Paragliding certification does not include motorized flight. However, motorized flying has been made with great success due to its very easy take-off characteristics, good performance, stability and extraordinarily good handling. Always use certified combinations of engine/harness/glider. Always check with your federation if in doubt.

Doors 15

5. Care, Maintenance and Repairs

The materials used in the Boost have been carefully selected for maximum durability. Nevertheless, following the guidelines below will keep your paraglider airworthy and will ensure a long period of continuous safe operation. Excessive wear is caused by careless ground handling and packing, unnecessary exposure to UV light, chemicals, heat and moisture.

Ground handling

The following should be avoided:

Violent shocks to the upper surface (e.g. when the canopy crashes to the ground leading edge first whilst ground handling).

Dragging the glider along the ground.

Stepping on the lines or canopy. The Kevlar inside the sheath can take lots of pulling force without stretching, but is sensitive to bending with small radius.

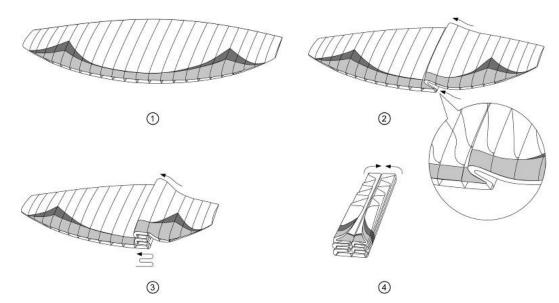
Opening your wing in strong winds without first untangling the lines.

UV damage

Avoid leaving the glider out in the sun unnecessarily. UV rays from the sun degrade paraglider cloth.

Packing instructions

We advise you to pack the glider 'accordion wise' as shown in the diagram. This packing procedure takes slightly longer and requires an assistant, but it conserves the rigidity in the profile reinforcements.



Since folding the glider weakens the materials, pack the glider as loosely as possible.



Transport and Storage

Moisture is the worst enemy for your glider, adversely affecting the ageing of fabric, lines and reinforcements. The Boost should therefore be kept dry and cool. Do not pack the glider away for a prolonged period if it is damp, sandy, salty, or if other objects have entered the cells. Always allow it to dry naturally before storage in a dry room. Leave the rucksack zip open whenever possible to allow residual moisture to evaporate, and do not transport or store the glider in the proximity of chemicals such as gasoline, paints or other solvents.

Cleaning

Use only lukewarm water and a soft cloth to clean your wing. Never use any abrasive materials or detergents. Only clean the wing if it is absolutely necessary e.g. after a landing in salt water.

Inspections

The Boost should be fully inspected by an authorized Gin agent after every 100 hours flying time or every year, whichever is sooner. A full inspection will give you peace of mind and extend your glider's lifetime. Additional inspections should be performed by a qualified person following a crash or violent landing on the leading edge, or if you note a deterioration of performance or behaviour.

You should also check for any damage to your lines, sail, and carabiners before each flight.

Repairs

Very small holes in the sail can be repaired with the sticky back tape provided with your glider. Ideally, damaged lines should be replaced by your GIN dealer. Before fitting a replacement line, check it for length against its counterpart on the other side of the wing. When a line has been replaced, always inflate the glider on flat ground to check that everything is in order before flying.

Major repairs, such as replacement panels, should only be carried out by the distributor or manufacturer.

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6. Reference

Testing and Certification

The Gin Gliders Boost has passed LTF 1(GH) and has also been certified to the EN-926 standard. This is the safest class of paraglider. The Boost has also passed load tests and shock tests with a load exceeding 8G of the maximum weight in flight.



Gleitschirm / Paraglider Boost M

Prūf-Nr. / Test reference-No GS_0200.2008 Certification Date / Prüfung Datum 08-06-2009

Angewandte Prüfrichdinien/normen: Lufttüchtigkeitsanforderungen für GS Klasse / Class: 1
Testregulations/ Standards Applied: Anzahl Sitze / Number of Seats: 1

Hersteller / Manufacturer Gin Gliders Inc. Fluggewicht / Weight in flight (kg): 75-95

Musterprüfbescheinigung Erteit An:
Declaration Of Conformity Issued To:

Gin Gliders Inc.

Gerätegewicht / Weight of Glider (kg): 4.8

Projectet Flache / Projected Area (m2): 21.9

Serial- No:
Conformitty Checked By: Monat / Jahr :

Stückeprüft Durch: Month / Year : Beachleuniger / Accelerator: ja/yes
Regelmässige Nachprüfung Nach:
Periodic Inspection After: every 12 months or every 100 flying hours Trimmer / Trimmer: nein/no

Conformity tests according to 2. DV LuftGerPV §1, Nr. 7 c standards carried out by: LBA anerkannte Prüfstelle für Hängegleiter und Gleitsegel Angewandte Prüfschtlinien / Normen durch:



Air Turquoise SA Rte du Pré-au-Compte 8 | CH-1844 Villeneuve tel. +41 21 965 65 65 | mobile +41 79 202 52 30

Anzahl Tragegurte / Number of Risers: 3

Vor Gebrauch Betriebsanleitung lesen / Read instructions before use





Air Turquoise SA. Rie du Pré-au-Comte 8 | DH-1844 Villeneuve tel. -4121 965 65 65 | mobile -4179 202 52 30 into@pare-test.com





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Class: A

In accordance with EN standards 926-2:2005 & 926-1:2006: PG_0204.2009

Date of issue (DMY): 15. 04. 2009

Manufacturer: Gin Gliders Inc.

Model: Boost L

Serial number:

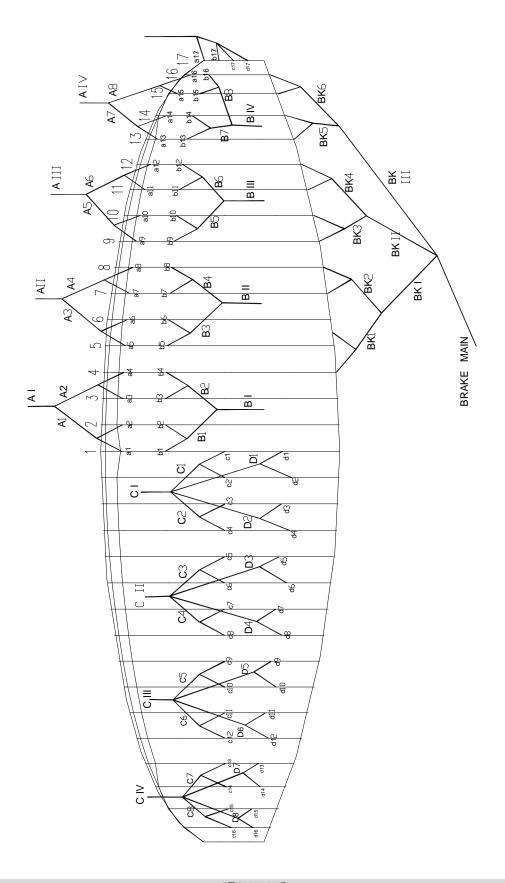
Configuration during flight tests

Paraglider		Accessories	
Maximum weight in flight (kg)	120	Range of speed system (cm)	10
Minimum weight in flight (kg)	90	Speed range using brakes (km/h)	13
Glider's weight (kg)	5.05	Range of trimmers (cm)	0
Number of risers	3	Total speed range with accessories (km/h)	19
Projected area (m2)	24,27		
Harness used for testing (max weigh	t)	Inspections (whichever happens first)	
Harness type	ABS	every 12 months or every 100 flying hours	
Harness brand	Gin Gliders	ers Warning! Before use refer to user's manual	
Harness model	Gingo ML	Person or company having presented the glider for testing: None	
Harness to risers distance (cm)	48		
Distance between risers (cm)	46		
1 2 3 4 5 6 7 8	9 10 11 1	2 13 14 15 16 17 18 19 20 21	22 23 24

Technical Specification Data

SIZE		XS	S	M	L
	AREA	21.65 m²	23.15 m²	25.15 m ²	27.9 m²
FLAT	SPAN	9.64m	9.98m	10.4m	10.95m
	A.R	4.3	4.3	4.3	4.3
	AREA	18.83 m²	20.15 m²	21.9 m²	24.27 m²
PRO JECTED	SPAN	7.8m	8.06m	8.4m	8.85m
	A.R	3.23	3.23	3.23	3.23
CHODD	ROOT	2.81m	2.91m	3.03m	3.19m
CHORD	TIP	0.71m	0.74m	0.77m	0.81m
TOTAL HEIGHT		6.12m	6.33m	6.60m	6.95m
CELL NUMBER		32	32	32	32
GLIDER WE	GLIDER WEIGHT		4.4kg	4.8kg	5.2kg
WEIGHT IN FLIGHT		45-65kg	60-80kg	75-95kg	90-120kg
MAX LOAD PARAMOTOR		-	-	135 kg	160 kg
LTF		in process	I	I	I
EN		in process	В	В	А

Lineplan



Material List FABRIC OF CANOPY

	ΝΙΛΝΙΓ	DOMINICO TEV	DODCUED NO	V Industries
	NAME	DOMINICO TEX		
SUPPLIER	ADDRESS	641-11 Dungchondong Kangseogu Seoul Korea	L'Isle d'Abeau, Parc de Chesne 75, rue du Ruisseau 38070 SAIN QUENTIN FALLAVIER Cedex / France	
TY	PE OF FINISH	SIDE COATED	SIDE COATED(F	POLYURETHANE
TY	PE OF YARN	NYLON 6.6 HIGH TENACITY – 30 Denier	PA 6.6 HIGH TEN	JACITY – 33 dtex
F	PLACE USED	RIBS, LOWER	UPPER REAR	UPPER FRONT
FABRIC COD)E	3RS	9017 E38A	9017 E77A
PATTERN		Rip Stop	Rip Stop	Rip Stop
Coated fabric's weight (g/sqm)		43+2	40+/-2	40+/-2
Tear	WARP (DaN)	3.6 Max	1.5 min	1.5 min
Strength	WEFT (DaN)	4.1 Max	1.5 min	1.5 min
Elongation	on bias 3 lbs (%)	11.5 Max	8 max	6.5 max
Elongation on bias 5 lbs (%)		17.5 Max	17 max	2 max
Elongation on bias 10 lbs (%)		25.5 Max	28 max	15 max
Breaking Strength	WARP (DaN/5cm)	42 Max	38 min	38 min
Judigui	WEFT (DaN/5cm)	43 Max	33min	33min
AIR Permeability p=2000Pa (I/SQMXMN)		40 Max	40max	40max

SUSPENSION LINES

MATERIAL		ARAMID(TECHNORA)			
	NAME	TEIJIN LIMITED, JAPAN			
SUPPLIER	ADDRESS	1- 1, UCHISAIWAI-CHO 2-CHOME, CHIYODA-KU, TOKYO 100, JAPAN			
PLACE USED		TOP LINES MID LINES BOTTOM LINES LINES			
NA	ME	TGL80 TGL140 TGL280 TG		TGL220	
DIAMET	ER(mm)	1.1 1.4		1.8	1.6
YARN COUNT		1,0000	1,0000	1,0000	1,0000
NUMBER	OF CORE	4	5	14	11
BREAKING (M		80kg	140kg	280kg	220kg

REINFORCEMENT

FABRIC CODE		W420 SCRIM
	NAME	PORCHER NCV Industries
SUPPLIER	ADDRESS	L'Isle d'Abeau, Parc de Chesnes, 75, rue du Ruisseau 38070 SAINT QUENTIN FALLAVIER Cedex / France
MA	TERIAL	POLYERTER SCRIM
WEIGH	HT(GR/M²)	180
BREAKING	WARP	137
STRENGTH (KG/5Cm)	WEFT	118
TEAR	WARP	4.2
STRENGTH (KG/5Cm)	WEFT	4.1
WEAVE DESIGN		RIPSTOP

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RISER

MATE	RIAL	POLYERSTER TAPE
SUPPLIER	NAME	Güth & Wolf GmbH
SUPPLIER	ADDRESS	Herzebrockerstr. 1-3 D-33330 Gütersloh GERMANY
WEIGHT	(GR/M)	34
BREAKING STRENGTH		1,100DAN
WIDTH (mm)		20mm

MAILLONS

MATER	IAL	STAINLESS STEEL
CLIDDLIED	NAME	SUBO TECH CO.
SUPPLIER	ADDRESS	981-1 CHAGOK-RI PALTAN-GU, HWASUNG-CITY, KYUNG KI- DO, KOREA
WEIGHT	(GR)	12
BREAKING STRENGTH		1,000kg
DIAMETER (mm)		4.3

BRIDLE(ATTACHMENT LINES)

MATERIAL		NYLON
SUPPLIER	NAME	KOLON INDUSTRIAL CO.
SUPPLIER	ADDRESS	45 MU KYO DONG JUNG – GU, SEOUL, KOREA
WEIGHT	(GR/M)	7.2
BREAKING (k	ī.	110KG
WIDTH	I (mm)	13

THREAD

MATERIAL		HIGH TENACITY POLYESTER YARN		
CLIDDLIED	NAME	AMANN & SÖEHNE GMBH & CO.		
SUPPLIER	ADDRESS	INDUSTRIESTRASSE 1, D-74391 ERLIGHEIM, GERMANY		
DEN	IER	150D/3	225D/3	
BREAKING STRENGTH (EN2062)		2.9kg	3.2kg	
MAXIMUM ELONGATION (EN 2062)		16%	16%	

"Designing paragliders is a personal journey of challenge and discovery, an ongoing search for perfection."

- Gin Seok Song

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Every effort has been made to ensure that the information in this manual is correct, but please remember that it has been produced for guidance only. It should not be used as a "how to fly" manual.

This owner's manual is subject to changes without prior notice. Please check www.gingliders.com for the latest information regarding the Boost and other GIN products.

WARNING:

All gliders have to be inflated on a flat ground before the first flight. The first flight has to be done by the Gin Gliders official dealer before delivery to the final pilot.

Paragliding is an extremely dangerous activity that can and sometimes does result in serious injury or death.

The designer, manufacturer, distributor, wholesaler and retailer cannot and will not guarantee your safety when using this equipment or accept responsibility for any damage, injury or death as a result of the use of this equipment. This paragliding equipment should only be used by qualified and competent pilots or by pilots under the direct supervision of a competent and qualified paragliding instructor.

You alone must take full responsibility to ensure that you understand the correct and safe use of this paragliding equipment, to use it only for the purpose for which it is designed, and to practice all proper safety procedures before and during use.

Paragliders require careful and constant care.

Over time, age, solar radiation, dirt, dust, grease, water, wind, stress and other variables will degrade the materials, performance and safety of the glider, thereby increasing the risk of injury or death.

Read and make sure you fully understand the owner's manual of this paraglider before you fly.

Always wear a helmet and protective clothing when flying a paraglider.