

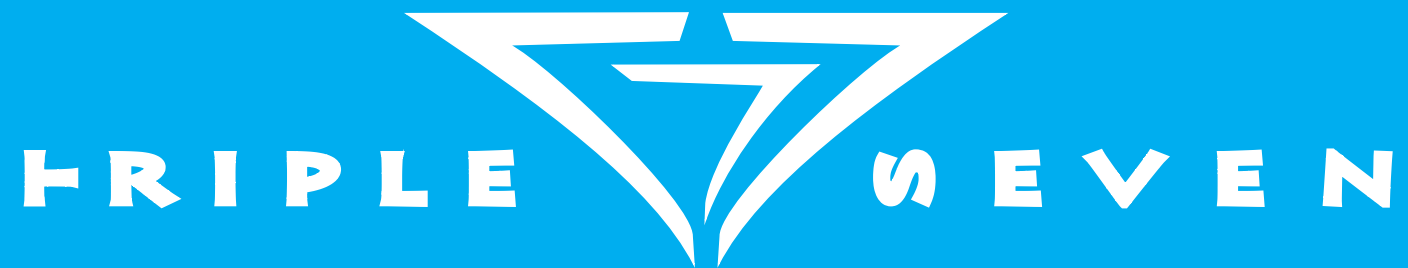


PAWN EN
A



TRIPLE SEVEN





PAWNI

Beginner of The Game EN/LTF-A

USER MANUAL

Version 1.6, Date: 18.07.2014



Introduction

Welcome

Welcome to the Triple Seven Team! We are excited that you have chosen to fly the PAWN, as we are confident that this glider will take you safely and relaxed from school to cloud base. Pawn is developed for maximum safety and ease of flight. As such, this glider is ideal for beginner pilots just starting the game of paragliding adventures. It is designed to be your first glider and also pure fun flyer that you will use for many years, during your first XC steps or any other direction you might take in paragliding. We wish you exciting flying adventures!

Triple Seven Mission

Our company's goal is to produce high quality products and technologically innovative gliders of all types and classes. We are striving to develop state of the art paragliders, with the optimum compromise between safety and performance. Your success is our inspiration; our goal is your success.

Manual

This document contains complete product information and instructions to familiarize you with the main characteristics of your new glider. It contains instructions on how to use and maintain the wing, however, its purpose is not to serve as learning material to pilot this kind of wing. As such, this is not a flying manual. Flying instructions can only be taught by flying schools and specially certified instructors.

It is important that you take time to read this manual carefully before the first flight, as thorough knowledge of your equipment enables you to fly safely and to maximize your full potential. If you borrow or give your glider to another pilot, please pass this manual on with it.

If any use of Triple Seven equipment remains unclear after having read this manual, please contact: your local paragliding instructor, your Triple Seven importer or Triple Seven. This product manual is subject to changes without prior notice. Please check www.777gliders.com for the latest information regarding our products.

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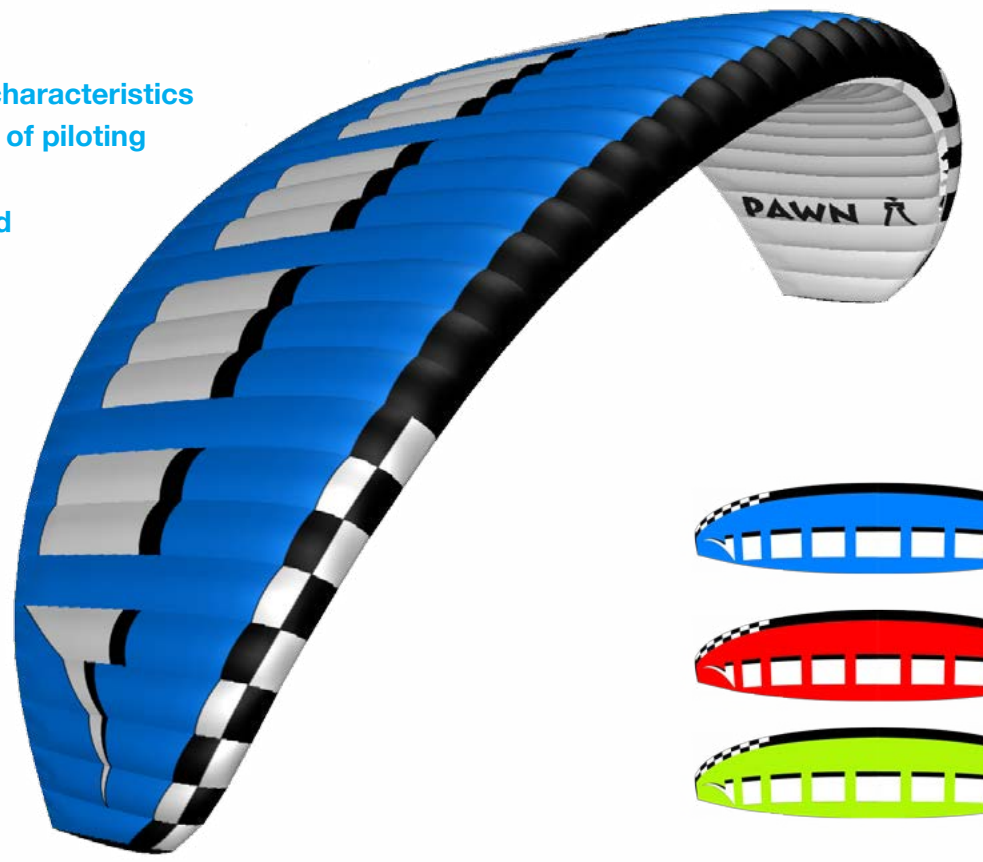


PAWN



- » Easy launch and landing characteristics
- » Progressive handling and easy control characteristics
- » Good balanced wing for maximum ease of piloting
- » Robustness and durability in mind
- » Canopy: Back position intake, reinforced leading edge, smooth trailing edge, low induced drag wingtip, line reduction
- » EN-A, LTF-A class

Safe and relaxed from school to cloud base. Pawn is developed for maximum safety and ease of flight. As such, this glider is ideal for beginner pilots just starting the game of paragliding adventures. It is designed to be your first glider and also pure fun flyer that you will use for many years, during your first XC steps or any other direction you might take in paragliding.



Designer's thoughts

My design goal with Pawn was to make good balanced school glider that will have nice takeoff, landing and easy flying characteristics. During design and development process we were cooperating with local school and instructors, to discuss and improve the glider. With Pawn we decide to introduce BPI (back positioned intake) technology in A class gliders to insure pilots comfort and safety. Pawn has a nice clean canopy shape with aspect ratio somewhere in the middle of its class. Internal constructions is featuring diagonal-ribs for line reduction and mini-ribs for clean trailing edge shape. Construction of the whole wing is optimized for maximum robustness and durability during the school training.



Urban Valič

Pawn is EN-A, LTF-A class glider designed for schools, beginners and intermediate pilots. This glider is developed for maximum safety. Our effort with this glider was also XC abilities and we believe, that pilots will have great fun during their first steps in paragliding and progression toward becoming the new XC masters.

Certification

The PAWN has passed the European EN-A certification for all commercially available sizes. The homologation results are enclosed at the end of this manual.



Before flight

Elements, components

The PAWN is delivered together with a backpack, inner bag, glider strap, Triple Seven T-shirt and USB key with this manual.

Assembly

Before you rush to the first take-off we recommend you take your time to unpack and test your equipment on a training slope. In this way you will have time and will not be distracted or rushed to prepare your equipment, and you will be able to do your first pre-flight check properly.

The place should be flat, free of obstacles, and with light wind. This will enable you to nicely inflate the wing and also familiarize yourself with it while ground handling. Every glider has to be checked by a Triple Seven dealer, however, as a pilot you want to do a proper pre-flight check yourself.

Firstly, prepare and spread out the glider like you would normally do. While you are spreading out and walking along the glider, observe the fabric material for any abnormalities. When you are done with the inspection of the canopy, grab the risers and spread the lines, check if the risers and maillons (carabiners) are properly closed. Identify and disentangle the A1, A2, B, C risers and the lines including the brake lines. Connect the risers' main

attachment points correctly to the harness, watch for any twists and make sure that the main carabiners are properly closed.

Harness

The PAWN has passed EN-A certification testing using a GH - ABS type harness. This certification allows the PAWN to be flown with most of the harnesses on the market, but keep in mind that the change of a harness greatly influences the feeling of the glider, depending on the effectiveness of the harness weight shift. Check with the harness manufacturer or with your instructor whether your harness is of the proper type.

The length of the harness chest strap affects the distance between the main carabiners and the wing's handling as well as your stability in the harness. Tightening the chest strap increases your stability, but greatly increases the risk of twisting after a collapse. A tight setting also increases the tendency to maintain a deep spiral. As a rule of thumb, a more opened chest strap gives you more feedback from the glider, which is good for your climbing efficiency and increases safety in a flying incident. But we strongly recommend adjusting the length of the harness chest strap according to the lengths used during certification. This setting varies according to the harness size from 42cm to 50cm.

Check the settings used during testing under the certification specimen section. We recommend that your first flight with the PAWN is not also with a new harness. Another rule of thumb is if you want to experience the feeling of new equipment, change only one part of equipment at a time.

Accelerator settings

The PAWN speed system increases the speed of the glider by 11km/h with the accelerator at full travel, from trim speed at 38km/h to full speed at 49km/h.

Before attaching the accelerator system to the PAWN risers, check that the speed system inside your harness is correctly routed and that all pulleys are set correctly. Make sure there are no knots or other obstacles that might make the accelerator get stuck during usage.

The length of the speed bar lines should be adjusted on the ground so that your legs are fully extended at the point of full accelerator travel. While setting the speed line lengths make sure they are long enough, so that the speed system does not accelerate the glider by itself. If in doubt how to properly set the accelerator system, please consult your instructor or Triple Seven dealer.

Brakes' adjustments

The length of the brake lines has already been adjusted by the manufacturer and is the same as used during the certification test flights. The length is set and fine-tuned during the development of the glider, therefore generally there should be no need to adjust them. We recommend flying this setting for a while, and you can still change it afterwards if you wish to do so. If you change the length of the brakes, do it in a step by step process of 2 cm at a time. Bear in mind that if you make the brake lines too short, they might be applied unintentionally while the speed system is being used.

Weight range

Each size of the PAWN is certified for its own weight range. The above mentioned weight includes the weight of the pilot and complete paragliding equipment, together with the glider, harness, all accessories and optional ballast. Every glider changes its characteristics by changing the take-off weight. We recommend that you always fly your glider in the specified weight range. To measure your take-off weight, step on a scale with all your equipment packed in the rucksack.

Lower half of the weight range

Flying the PAWN, as any other glider, in the lower part of the weight range, causes the agility of the glider to decrease, and when flying through turbulence its tendency for collapses relatively increases as compared to flying it in the upper wing loading range. However, reactions after a collapse are less dynamic and sink rate improves. Therefore, if you mainly fly in weak conditions, you might prefer this weight range.

Upper half of the weight range

Again, as with any other glider, flying the PAWN in the upper part of the weight range increases the stability and agility of the glider. Consequently, there is a slight increase in the glider's speed and also gliding performance, especially when flying against the wind. If you normally fly in stronger conditions and you prefer relatively more dynamic flying characteristics, you should set the take-off weight in the higher weight range. Reactions after a collapse may be more dynamic in the upper half of the weight range.

Wing inflation

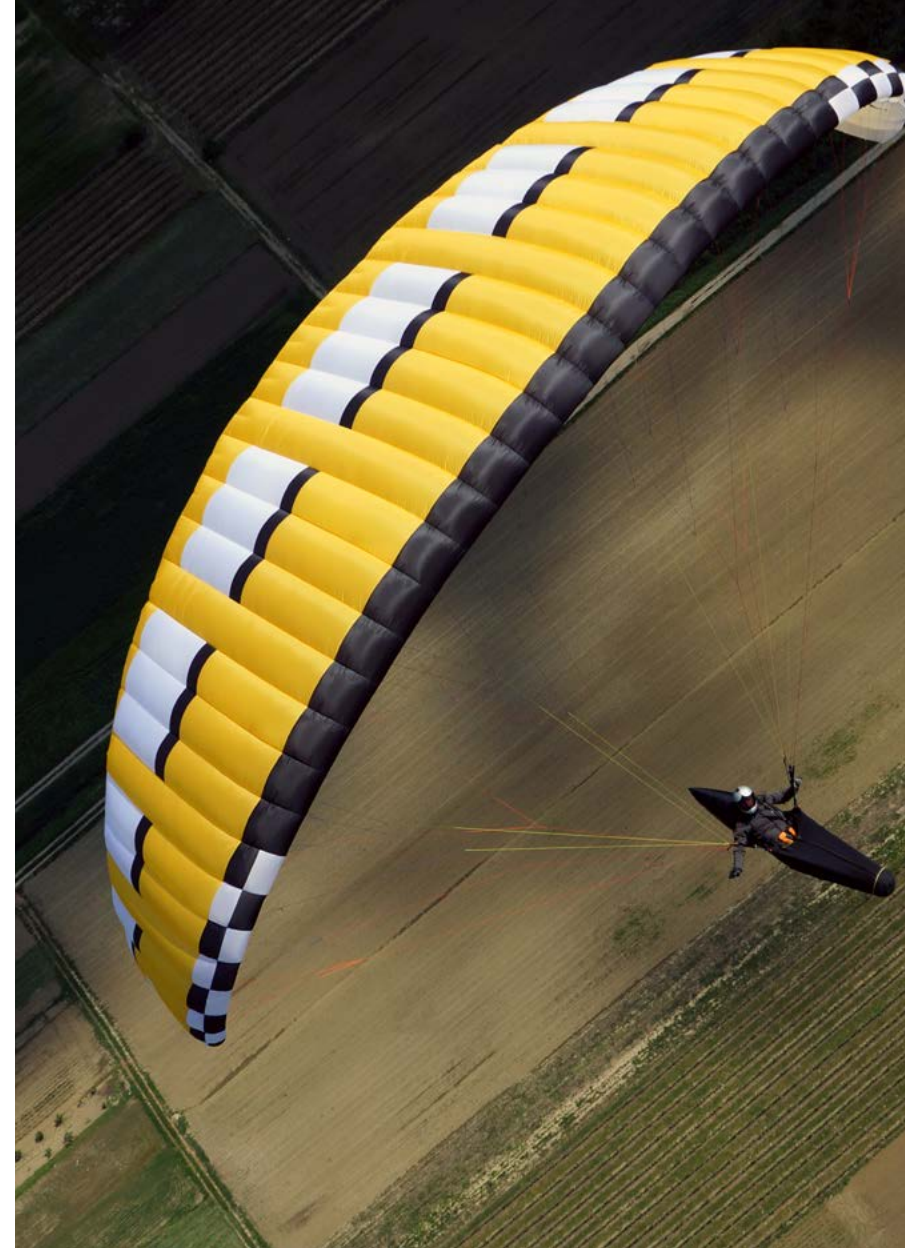
Still being on the training slope and having prepared and checked everything, inflate your wing and play with it to get a feel of your new glider while ground handling. By doing this you are making a final check of the canopy and lines, and that everything is in order. You will find that the PAWN inflates very easily and smoothly without excessive energy and with minimum pressure while moving forwards. For inflation and lifting the glider you may use only the A1 risers. Do not pull on the risers just with your hands, instead use your whole harness. Your hands should only accompany the rising movement of the wing. When the wing is above you, apply correct pressure on the brake lines and the glider will stay above you.

Modifications on the glider

Any modifications of the lines or risers' speed system cause the loss of the certification, similarly to flying the wing outside the weight range.

Preflight safety

Before flying the PAWN, you should obtain all practical and theoretical training and the certification for flying this kind of wing. Pilots should be physically and mentally fit, using complete paragliding equipment and flying only in conditions suitable for their level of flying expertise.



Flying PAWN

First Flight

Now that you have already familiarized yourself with your new glider while ground handling on a training slope, you are ready for your first flight. For the first flight it is recommended that you choose a familiar flying area and to fly your new glider in calm conditions.

Preflight check equipment

Before every flight you need to do a pre-flight check and the inspection of other equipment. Learn to do this, as it takes no extra time. This procedure may vary, depending on the instructor, pilot or equipment settings. Some pilots have their wing always connected to the harness. However you should have a consistent method of checking and preparing your equipment and doing the final pre-flight check.

1. After the arrival on take-off, assess the suitability of flying conditions.
2. While walking around the canopy preparing and spreading out the wing, you should at the same time inspect the canopy.
3. After you check the lines and connect the risers to the harness, grab the lines and slide them through your fingers as you walk towards the canopy. In this way you double check that the lines are not tangled, stuck or damaged. If meanwhile the canopy

moves, walk around and correct it again.

4. Inspect the harness, reserve, speed system and all connections.

Final preflight check

1. Strap into the harness. The leg straps should be the first to be connected on the take-off and the last ones to be released after the flight. Make sure you are strapped in correctly and wearing a helmet.
2. Check the risers for a twist and that the carabiners are properly closed. Check if the speed system is not affecting your risers – accelerating unintentionally.
3. Check the lines. The A riser lines should be on top, and all lines untangled. Check if none of the lines are lying over or below the canopy.
4. Check the canopy. The glider should be spread out in the shape of an arch and all cells open.
5. Check the wind, take-off and airspace. The wind should be favourable for take-off and the pilot's level of expertise. Airspace should be cleared, together with the take-off area.

Inflation, control, take-off

The PAWN has easy take-off behavior and does not require any additional advice regarding the forward or reverse launch. Try to divide and practice the take-off procedure in three steps.

1. Inflating and raising the glider
2. Controlling the wing and wing check
3. Accelerating and take-off

It is always advisable to practice and improve proper launching techniques as this reduces unnecessary additional stress before the take-off.

Wind speeds up to 25 to 30km/h are considered strong and extra care is required for the flight. If you are launching in strong winds we recommend the reverse launch technique, with your brakes in the right hands at all times. Launch the glider with a gentle pull and then walk towards it if necessary to reduce the relative wind force. When the glider is above you, gently control the wing and take off.

Line knots or tangles

If you fail to observe a line knot or you find yourself flying with a knot before being able to prevent the unintentional, uncontrolled take-off, try to stay away from the ground or other pilots by flying away from the mountain, before taking any corrective action on the wing. This means that you weight shift and/or counter brake the opposite side of the wing and control the flying direction with the least amount of force needed for the wing to fly straight away from the mountain. Be careful not to apply too much brake or to fly too slowly to avoid a stall or spin. When you are at a safe distance away from the mountain and you have gained relative height by flying away, you may want to gently and briefly pull the lines that are tangled with the knot. If the knot is on the brake lines you might want to gently and briefly “pump” the appropriate brake line. Please note that by pulling the lines, the knot may get stuck in a worse position and the situation may escalate also to a stall or spin. Therefore, if you estimate that you can control the wing relatively safely and that the knot is not released by gently and

briefly pulling the tangled lines, immediately fly to the landing zone and land safely.

Normal flight, best glide

Without any brakes applied and without using the accelerator, the wing flies at the so called “trim speed“. In calm air this is theoretically the best glide speed. The best speed glide depends on the glider's polar and air mass, vertical and horizontal speed. We recommend reading more about the theory of the best glide and McCready theory.

Minimum sink

If you apply brakes on both sides for about 15 to 20cm you will slow the glider to the theoretical minimum sink speed. But we do not recommend using this speed even for thermalling, as you achieve much better climbing and control by letting the glider fly with its “trim speed” and natural energy. With a proper take-off weight you will find that the glider has great climb, reactions and agility.

Accelerated flight

After you get comfortable flying the PAWN, you can start practicing using the speed system, which will provide better performance while gliding against the wind and through a sinking air mass. The PAWN was designed to be stable through its entire speed range, but this requires the use of active flying techniques. Note that any glider becomes less stable while flying accelerated and that the risk of a collapse is higher in accelerated flight. Additionally, the

reaction of the glider to a collapse in accelerated flight is more radical in comparison to the one which occurs at trim speed.

We recommend that you avoid accelerated flight near the ground and to be very careful using the accelerator in turbulent conditions. Use a soft speed bar, which enables you to accelerate the glider by using only one leg. To control the direction use weight shift. To control the pitch change the amount of the speed bar. Do not use or pull the brakes while using the speed bar. Use the speed bar progressively when accelerating and instantly release when you feel a slight loss of tension, pressure or even a collapse. If you encounter a collapse while using the accelerator, release the speed bar immediately before taking any other corrective action. Always keep more distance from the ground when using the speed bar.

Active flying

This is a basic flying technique for any pilot. It implies permanent control and the correction of pitch and roll movements together with the prevention of any deflations or collapses. In a nutshell this means flying straight through active or turbulent air, so that the pilot keeps the glider above his or her head at all times, compensating and correcting any unwanted movements of the wing.

Few examples:

- While entering a strong thermal, the wing will stay a little bit behind relative to the pilot. The pilot should let the brake up allowing the wing to fly faster and to catch up.
- If the wing surges in front of the pilot, the pilot should counter brake until the surge is controlled and then release the glider to let it fly normally.

- If the pilot feels a loss of tension on the wing or a loss of pressure on the brakes on one side of the wing, he should smoothly apply the brake on the side with loss of pressure and/or weight shift to the opposite side until the pressure returns. After that, again release the brake and/or weight shift to the neutral position and let the glider fly normally.

The key in all cases is to avoid an over-correction and not to maintain any correction longer than necessary. After each action let the glider fly normally again. To re-establish its required flying speed. You can train or get a feeling for most of these movements safely on the ground while ground handling your glider. Good coordination of your movements and coordination with the wing on the ground will enable you a quick progression when actively flying in the air. The next step is to attend SIV courses where you should also get a better understanding of the full brake range and the glider's speeds.

Flying in turbulence

Wing deflations can occur in a strong turbulence. The PAWN is designed and tested to recover without pilot's input in almost all situations by simply releasing the brakes and letting the glider fly. To train and understand all the manoeuvres described, attend SIV courses.

Cascade of events

Many reserve deployments are the result of a cascade of over-corrections by the pilot. Over-corrections are usually not problematic because of the input itself or its intensity; but due to

the length of time the pilot continues to over-handle. After every input you have to allow the wing to re-establish its normal flying speed. Note that over-corrections are often worse than no input at all.

Asymmetric deflations

Strong turbulence may cause the wing to collapse asymmetrically. Before this occurs the brake lines and the feeling of the harness will transmit a loss of pressure to the pilot. This feedback is used in active piloting to prevent a collapse. If the collapse does occur, the PAWN will easily re-inflate without the pilot's reaction, but the wing will turn towards the collapsed side. To prevent this from happening turn and actively recover the asymmetric collapse by weight shifting and applying appropriate brake input on the side that is still flying. Be careful not to over-brake your wing's flying side. This is enough to maintain your course and give the glider enough time to recover the collapsed side by itself. To actively reopen the collapsed side after course stabilization, pull the brake line on the collapsed side firmly and release it. You can do this several times with a smooth pumping motion. After the recovery, release the brake lines for your glider to regain its trim speed. You must be aware of the fact that asymmetric collapses are much more radical when flying accelerated. This is due to the difference in weight and the inertia of the canopy and the pilot hanging below.

Symmetric deflations

Symmetric or frontal deflations normally reopen immediately by themselves without pilot's input. The glider will then regain its airspeed accompanied by a small surge forwards. To actively control this event, apply both brakes slightly when the collapse

occurs and then instantly release the brakes to let the glider fly. Be prepared to compensate for the glider's slight surge forward while returning to normal flying.

Wing tangle, cravat

A cravat is very unlikely to happen with the PAWN, but it may occur after a severe deflation or in a cascading situation, when the wing tip gets caught in the glider's lines. A pilot should be familiar with the procedure of handling this situation with any glider. Familiarize yourself with the stabilizer's main line ("stabilo" line Orange colour) already on the ground. If a cravat occurs, the first thing to do is to try to keep the glider flying on a straight course. Do this by weight shifting and counter braking the untangled side. After that, grab the stabilizer's main line on the tangled side and pull it down until it becomes tight again. At this point the cravat normally releases itself.

Possible solutions of the cravat situations (consult your SIV instructor):

- Pulling the wing tip "stabilo" line
- Using a full stall, but it is essential to be very familiar with this manoeuvre. You also want to have a lot of relative height.
- If you are in a situation where you have a cravat and you are low in rotation or even with twisted risers, then the only solution is the reserve parachute.

Negative spin

In normal flight you are far from negative spin. But, certain circumstances may lead to it. Should this occur, just release the brake lines progressively and let the wing regain its flying speed. Be prepared for the glider to surge forward, compensating the

surge with brake input if necessary.

Full stall

A full stall does not occur unintentionally on its own – it happens if you pull both brakes for 100% and hold them. The wing then performs a so called full stall. Releasing the brakes improperly may lead to massive surge of the glider with danger of falling into the canopy. This is a complex manoeuvre and as such outside the scope of this manual. You should practice and learn this manoeuvre only on a SIV course under professional supervision.

Deep stall

Generally when in deep stall, the wing has no forward motion and at the same time high sink speed. When in deep stall the wing is almost fully inflated. With the PAWN it is very unlikely to get into this situation unintentionally. This could possibly happen if you are flying at a very low speed in turbulent conditions. Also the porosity of the material and line stretch on a very old glider can increase the possibility of the deep stall tendency. If you trained this manoeuvre on a SIV course you would realize that it is very hard to keep the PAWN in deep stall. If you apply the brakes a little bit too much you enter the full stall. If you release the brakes just a little bit too much the wing returns to normal flight. If you want to practice the deep stall on SIV courses, you need to master the full stall first.

Fast decent techniques

Fast descent techniques should be well familiar to any pilot as they are important resources to be used in certain situations. These manoeuvres should be learned at your flying school as a part of

paragliding pilot training. Nevertheless, we recommend practicing these manoeuvres on SIV courses under professional supervision.

Big ears

This is a safe method to moderately loose altitude while still maintaining forward speed. To do big ears, release any brake line loops around your wrist, set your leg on the speed bar, but do not push it. Now pull the outer A lines (the A2 risers in the drawing) on both sides. As long as you keep the A2 risers pulled, the wing tips stay folded and the sink speed increases. To regain normal flight, release the A2 risers, and if necessary apply the brakes with short impulse movements. Release big ears at least 100 meters above the ground. While using big ears, the wing speed decreases, which is why we also recommend using the accelerator half way in combination with big ears to maintain enough horizontal speed and to also additionally increase vertical speed. Be careful not to pull the brakes while making the ears! Steering is done by weight shift only. Always do the big ears first and then accelerate; not the other way around as you will risk getting a frontal collapse.

B line stall

While in the B-stall the glider has no horizontal speed and the sink rate increases to about -8m/s. To enter the B-stall reach for the B risers just below the maillons and pull both B line risers symmetrically for about 20 cm. To exit the manoeuvre, simultaneously release both risers quickly. On exit the PAWN gently dives without deep stall tendencies.

Spiral dive

The spiral dive is the most demanding of all three manoeuvres (Big ears, B-stall, Spiral) and should only be trained gradually and

always at high altitude. The spiral dive should be practiced and learned on a SIV course under professional supervision. To enter the spiral, weight shift to the desired side and gradually apply the brake on the same side. Then let the wing accelerate for two turns and you will enter the spiral dive.

While in the spiral, you can control your descent rate and bank angle by applying more or less inner brake. Depending on how steep the spiral is you may need to use also outer brake. To exit the spiral dive we recommend that the pilot is in the neutral weight shift position. If you release the inner brake, the wing exits the spiral dive by itself.

The PAWN has no tendency of a stable spiral but you should be aware of the procedure for exiting a stable spiral.

To exit a stable spiral dive, weight shift to the opposite side of the turn and apply the outer brake until feeling the deceleration of the wing rotation. Then release the outer brake and let the glider decelerate for the next couple of turns. To avoid a big pendulum movement after exiting the spiral, apply a short brake input on the inner side before the glider exits the spiral.

Warnings (Spiral dive):

- There is a possibility of losing consciousness while in the spiral dive. Never make a spiral with more than 16-18m/s sinking speed.
- In fast spirals it may be necessary to apply the outer brake to begin exiting the spiral dive.
- If practicing the spiral dive low, a pilot may not have enough altitude or time to safely exit this manoeuvre.

Winch launch

The PAWN is easy to launch using a winch and has no special characteristics considering this kind of launching. To practice this launching technique special training is needed and you have to be aware of the procedures and dangers, which are specific for winching. We do not recommend using any special towing device which accelerates the glider during the winch launch.

Aerobatics

The PAWN was not designed for aerobatics, therefore, these may not be performed on this glider. In addition to this, any extreme manoeuvres place unnecessary stress on the glider and shorten its lifespan.

Primary controls failure

If for any reason you cannot use the brake lines, you have to pilot the wing to the landing place by using weight shift. Weight shift should be enough to safely land the glider. You can also use the C risers to control and steer the wing. Be careful not to over-handle the glider by using the C riser technique when steering. By pulling the C risers too strong you can cause a stall or a negative spin. Land your glider at trim speed without using the C risers, to avoid over-handling the glider low above ground. We recommend using weight shift.

Landing

Similarly to the take-off, the PAWN's landing characteristics are easy. In turbulent conditions it is advisable to apply about 15%

of the brakes, to increase stability and the feeling of the glider. Before landing, adopt the standing position as this is the most effective and the safest way to compensate the touch down with your legs. Again we recommend training the landing manoeuvre, as it might be useful to be able to land in small places, especially in an unknown cross country terrain. Learn to evaluate the wind direction by observing the signs on the ground and also your drift while making turns. This proves to be useful for cross country, when landing outside of your usual landing field. Another advice we suggest taking into account in stronger winds is to go higher for the landing fields and thus assuring you reach them. Likewise, always look for possible alternatives downwind.

Maintenance

General advice

Careful maintenance of your glider and the following simple guidelines will ensure a much longer airworthiness and performance of your wing:

- Pack your glider after you land and do not unnecessarily expose it to UV radiation by leaving it on the landing site unpacked. The sun UV radiation degrades the cloth and lines material.
- Fold your glider like recommended under the section of packing instructions.
- If the glider is damp or wet when you pack it, partially unfold it at home to allow it to dry. Do not dry it in direct sunlight.
- Avoid exposing the glider to violent shocks, such as the leading edge hitting the ground.
- Avoid dragging the glider on the ground or through rocky terrain as you might damage the lines or canopy.
- Avoid stepping on the lines or canopy, especially when they are lying on a hard surface.
- Avoid exposing the glider to salt water, as it damages the lines and the canopy material (wash with fresh water).
- Avoid bending your lines, especially in a small radius.
- Avoid opening your glider in strong winds without first untangling the lines.
- In general, avoid exposing your glider to very hot or humid environments, UV radiation or chemicals.

Packing instructions

It is important to correctly pack your glider as this prolongs its lifespan. We recommend that you fold the glider like a harmonica, neatly aligning the profiles with the leading edge reinforcements side by side. The wing should then be folded in three parts or two folds. The wing should be packed as loosely as possible. While packing be careful not to trap any grasshoppers inside your canopy as they will tear the canopy cloth. This technique will make your glider last longer and ensure its best performance.

Storage

Correctly packed, store your glider in a dry place at room temperature. The glider should not be stored damp, wet, sandy, salty or with objects inside the cells of the glider. Keep your equipment away from any chemicals.

Cleaning

If necessary always clean your glider with fresh water and a cloth only, without using any cleaning chemicals. This includes also the lines and canopy. More importantly, always remove any stones or sand from the canopy as they will gradually damage the material and reduce the glider's lifespan.

Repair

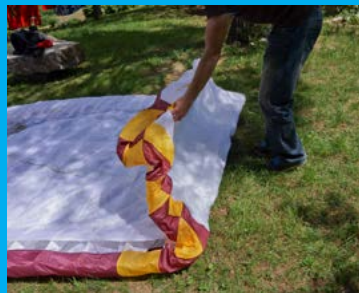
To repair small damages (less than 5cm) on the canopy cloth, you can use the rip stop tape. Greater damages, including stitches and lines must be repaired by a specialized repair shop. Damaged lines should be replaced by a Triple Seven dealer. When replacing a line it should always be compared with the counterpart for adjusting the appropriate length. After the line was repaired, the wing should be inflated before flying, to ensure that everything was done correctly. Major repairs, such as replacing panels, should only be carried out by a Triple Seven distributor or Triple Seven. If you are unsure about the damage or in any doubt please contact Triple Seven.

Checks and control

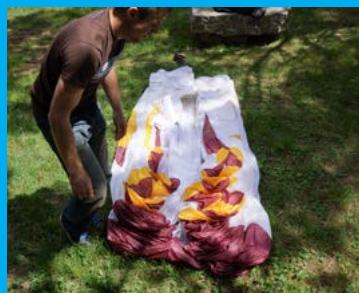
To ensure the wing's airworthiness the PAWN has to be periodically serviced and checked to guarantee that the glider continues to fulfil the EN certification results and to extend your glider's lifespan. We recommend a line check and trim inspection every 100 hours or 12 months depending what happens first. After that, the glider needs to be fully checked after 150 hours or 24 months of usage, whichever comes earlier. This inspection includes checking the suspension lines, line geometry, riser geometry and the permeability of the canopy material. A certified inspector can then define the check interval depending on the glider's condition. Please note that the condition of the glider can vary considerably depending on the type of usage and environment. Salty coastal air or dunes will considerably affect your wing's material. For more information please visit our website.

Packing PAWN

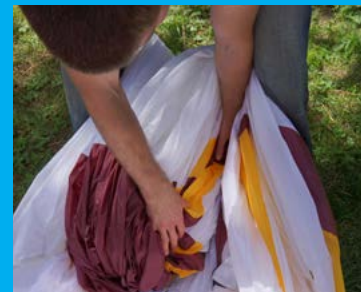
1. FOLD THE GLIDER LIKE HARMONICA



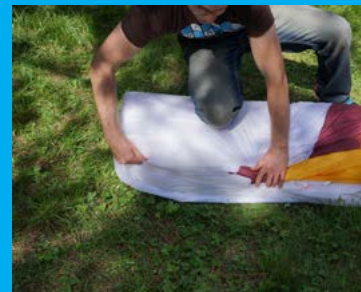
2. ALIGN THE CELLS



3. FOLD LEADING EDGE BACK TOWARD TRAILING EDGE AND ALIGN THE CELS



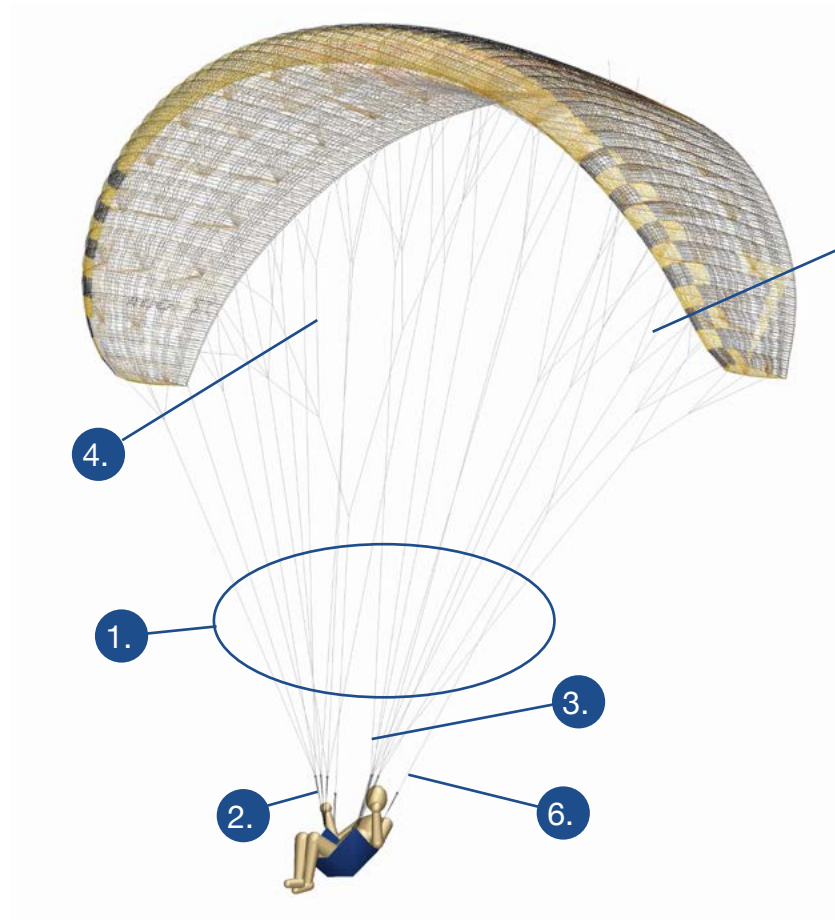
4. FOLD THE GLIDER IN THREE PARTS



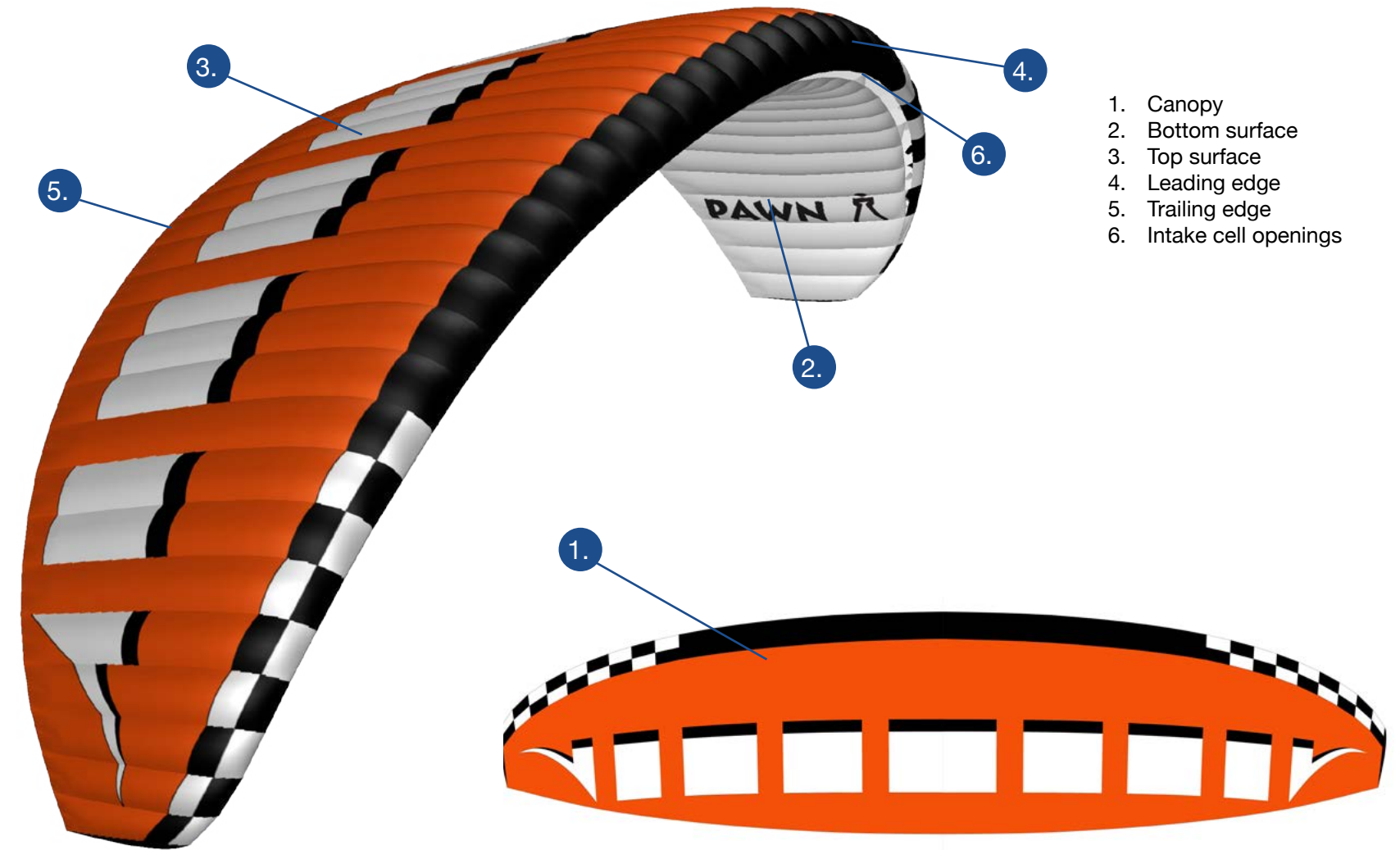
5. FINISHED



Technical data



1. Suspension lines
2. Risers
3. Main lines
4. Middle cascades
5. Upper cascades
6. Brake lines



1. Canopy
2. Bottom surface
3. Top surface
4. Leading edge
5. Trailing edge
6. Intake cell openings

Technical data

SIZE			PAWN S	PAWN M	PAWN L
CELLS	NUMBER		40	40	40
FLAT	AREA	m ²	23.8	27.1	30.2
	SPAN	m	10.9	11.6	12.3
	ASPECT RATIO		5	5	5
PROJECTED	AREA	m ²	20.1	22.9	25.6
	SPAN		8.6	9.2	9.7
	ASPECT RATIO		3.7	3.7	3.7
ROOT CHORD		m	2.7	2.9	3.0

RISERS		A	B	C	
PAWN S	LENGTHS (mm)	540	540	540	STANDARD
PAWN S	LENGTHS (mm)	420	460	540	ACCELERATED
S-Distance between pulleys: 130					

PAWN M	LENGTHS (mm)	540	540	540	STANDARD
PAWN M	LENGTHS (mm)	370	433	540	ACCELERATED
M-Distance between pulleys: 150					

PAWN L	LENGTHS (mm)	560	560	560	STANDARD
PAWN L	LENGTHS (mm)	380	440	560	ACCELERATED
L-Distance between pulleys: 170					

SIZE			PAWN S	PAWN M	PAWN L
	TRIMS		NO	NO	NO

IN FLIGHT WEIGHT MINIMUM	kg	65	80	100
MAXIMUM	kg	80	105	125
GLIDER WEIGHT	kg	4.4	5.1	5.8
CERTIFICATION	EN/LTF	A	A	A

Materials description

CANOPY	FABRIC CODE
Upper surface	NCV Skytex 38 Universal
Bottom surface	NCV Skytex 38 Universal
Profiles	NCV 9017 - E29A
Diagonals	NCV 9017 - E29A
Loops	COUSIN 608 10mm
Reinforcement loops	NCV F06391 - E45A, SR-Scrim X15
Internal construction D-Ribs, H-Straps, Mini ribs	NCV 9017 - E29A
Thread	Serafil 40/2000, 60/2000

SUSPENSION LINES	FABRIC CODE
Upper cascades	Cousin 0,95mm (Blue,Orange) Dyneema

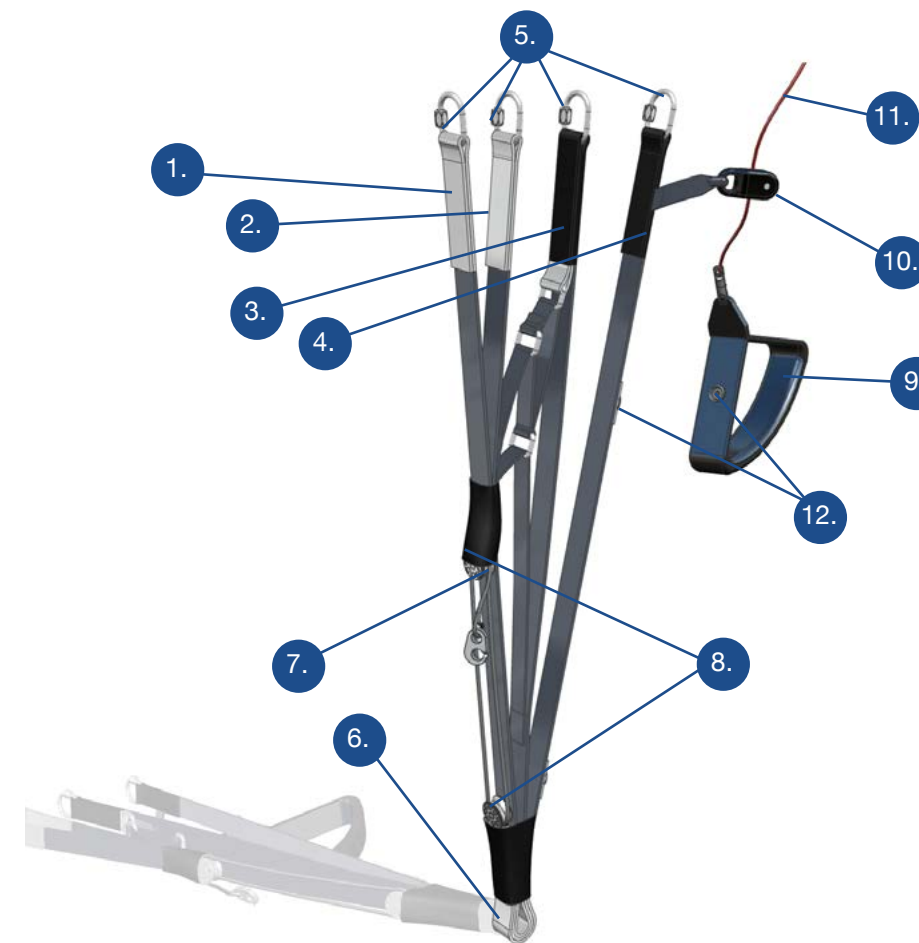
Middle cascades	Cousin 1,8mm (Blue Yellow,Orange) Technora
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Main	Cousin 2,1mm (Blue,Yellow) Technora
Brake lines	Cousin 0,95mm (Orange) Dyneema

Main brake	Cousin 260/2.1mm (Red)
Thread	Serafil Amann 60/0415

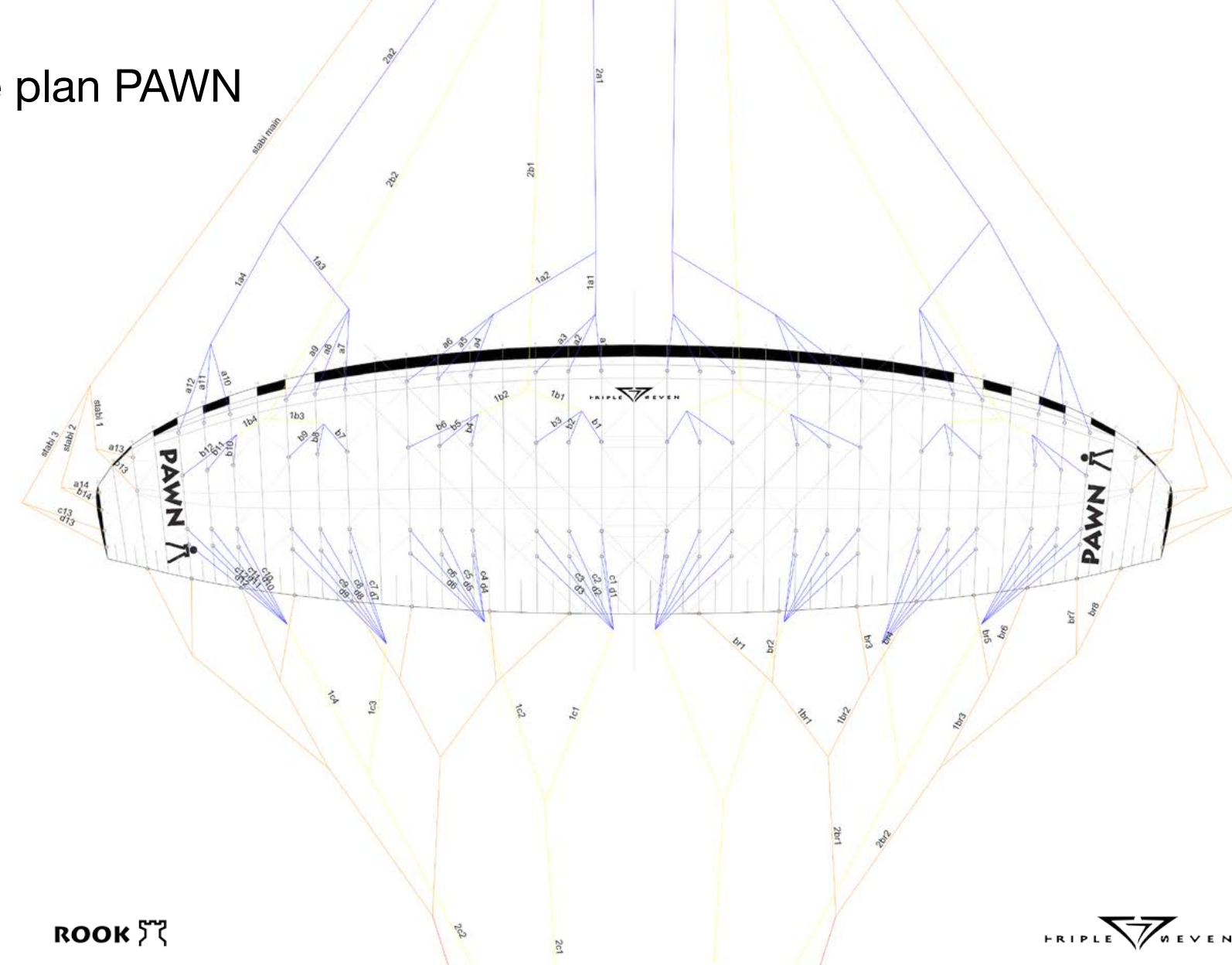
RISERS	FABRIC CODE
Material	Güth & Wolf Black 80682/19mm Webbing Cousin 3455-12mm, Güth & Wolf 70 404/12,5mm Dyneema
Material	Güth & Wolf Black 70 404/12,5mm Dyneema
Color indicator	Cordura 200/200PU
Thread	Serafil Amann 20/4000, 20/1078
Brake Swivel	Fob ningbo - china 6mm
Maillons	Rapid Peguet 20mm
Pulleys	Speed: 4 x Finsterwalder Mini role metal 28mm, Brake: 2 x Riley plastic 35mm.

PAWN risers arrangement



1. A1 riser
2. A2 riser, (Ears)
3. B riser, (B-Stall)
4. C riser
5. Maillons
6. Main attachment point
7. Speed bar attachment point
8. Speed bar pulleys
9. Brake handle
10. Brake line pulley
11. Main brake line
12. Clip for brake handle
13. PAWN has no trimmers or any other adjustable or removable device

Line plan PAWN



Line lengths PAWN S

Triple Seven PAWN S Lines Length (mm)										LINE CHECK							
First gallery										a1	6115	c1	6186	br1	6999		
Lines A	mm	Lines B	mm	Lines C	mm	Lines D	mm	BR lines	mm	a2	6046	c2	6087	br2	6585		
a1 - blue	1110	b1 - blue	974	c1 - blue	920	d1 - blue	975	br1 - orange	1337	a3	6055	c3	6088	br3	6355		
a2 - blue	1041	b2 - blue	892	c2 - blue	821	d2 - blue	882	br2 - orange	919	a4	6044	c4	6073	br4	6342		
a3 - blue	1050	b3 - blue	901	c3 - blue	822	d3 - blue	881	br3 - orange	965	a5	6027	c5	6064	br5	6228		
a4 - blue	1021	b4 - blue	877	c4 - blue	804	d4 - blue	861	br4 - orange	946	a6	6084	c6	6144	br6	6102		
a5 - blue	1004	b5 - blue	860	c5 - blue	792	d5 - blue	845	br5 - orange	903	a7	6038	c7	6095	br7	6006		
a6 - blue	1062	b6 - blue	930	c6 - blue	875	d6 - blue	919	br6 - orange	777	a8	5974	c8	6003	br8	5953		
a7 - blue	991	b7 - blue	927	c7 - blue	816	d7 - blue	862	br7 - orange	704	a9	5984	c9	6003				
a8 - blue	926	b8 - blue	859	c8 - blue	724	d8 - blue	767	br8 - orange	651	a10	5919	c10	5919				
a9 - blue	936	b9 - blue	869	c9 - blue	724	d9 - blue	759			a11	5858	c11	5862				
a10 - blue	874	b10 - blue	799	c10 - blue	686	d10 - blue	715			a12	5860	c12	5882				
a11 - blue	813	b11 - blue	747	c11 - blue	629	d11 - blue	650			a13	5603	c13	5388				
a12 - blue	815	b12 - blue	759	c12 - blue	648	d12 - blue	659			a14	5316	d1	6242				
a13 - orange	936	b13 - orange	877	c13 - orange	437	d13 - orange	510			b1	6067	d2	6148				
a14 - orange	495	b14 - orange	502							b2	5985	d3	6148				
Second gallery										b3	5994	d4	6130				
Lines A	mm	Lines B	mm	Lines C	mm	Lines D	mm	BR lines	mm	b4	5982	d5	6114				
1a1 - blue	2262	1b1 - yellow	2021	1c1 - yellow	1848			1br1 - orange	1380	b5	5965	d6	6188				
1a2 - blue	2279	1b2 - yellow	2033	1c2 - yellow	1850			1br2 - orange	1108	b6	6035	d7	6141				
1a3 - blue	1998	1b3 - yellow	1679	1c3 - yellow	1510			1br3 - orange	946	b7	5979	d8	6046				
1a4 - blue	1996	1b4 - yellow	1687	1c4 - yellow	1465			1br4 - orange	923	b8	5911	d9	6038				
										b9	5918	d10	5948				
										b10	5860	d11	5884				
Main Lines										b11	5806	d12	5892				
Lines A	mm	Lines B	mm	Lines C	mm	Lines D	mm	BR lines	mm	Stabilo Lines	mm	STB	mm	b12	5817	d13	5460
2a1 - blue	2761	2b1 - yellow	3090	2c1 - yellow	3437			2br1 - orange	1750	stab3 - orange	793	b13	5546				
2a2 - blue	3067	2b2 - yellow	3391	2c2 - yellow	3787			2br2 - orange	1843	stab2 - orange	674	b14	5320				
										stab1 - orange	512						
										stab. main	4160						
										br main	cut 2630, mark 2580						

Paramotor



FICHE D'IDENTIFICATION ULM DE CLASSE 1

(à joindre à la carte d'identification)

a	b	c	d	e	f	Rev n°
B	1	0	1	S	F	0 2 7 7 5 E

- a) Construction en série - B - autres cas : A
 b) Monoplace : 1 - Biplace : 2
 c) Paramoteur : 01 - Pendulaire : 02 - Multiaxe : 03 - Autogire : 04 - Aérostat : 05 - ULM à motorisation auxiliaire : 1A - 2A - 3A - Hélicoptère : 06
 d) Code de l'autorité aéronautique
 e) Numéro d'ordre
 f) Utilisation : Loisir : L - Activité particulière : T - Loisir et activité particulière : E

Appellation ou type d'ULM	PAWN S
Constructeur	TRIPLE SEVEN - 777 JADRALNA PADALA D.O.O.
Adresse	Ulica IV . prekomorske 61 5270 AJDOVSCINA - SLOVENIE

DESCRIPTION DE L'ULM

Activités particulières prévues	n/a			
Options prévues	n/a			
Masse minimale	Masse maximale	Volure		
		Fabricant	Modèle/Référence	
85 kg	112 kg	777 gliders TRIPLE SEVEN	PAWN S	
Référence manuel d'utilisation	MANUEL PAWN VERSION 1.0 DU 6/6/14.	ANNEXE PARAMOTEUR FRANCAIS AU MANUEL GENERAL PAWN.	Surface à plat	Résistance minimale d'ancrage
			23.80 m²	63.80 daN
Limitations du constructeur de la voie vs-à-vis des CMP		Puissance maximale 30 KW.		

Pour le Ministre chargé de l'Aviation Civile
Document établi le : 15 Juillet 2014

Benoit PINON
Chef du pôle certification,
Visa de l'autorité SUM de navigabilité et aviation générale

A remplir par le constructeur d'ULM en série ou par son représentant pour toute copie conforme remise à l'acheteur.

Je soussigné, _____, certifie que l'ULM numéro de série _____ est conforme au dossier technique ayant fait l'objet de la présente fiche d'identification.

à _____
signature et cachet de l'entreprise



FICHE D'IDENTIFICATION ULM DE CLASSE 1

(à joindre à la carte d'identification)

a	b	c	d	e	f	Rev n°
B	1	0	1	S	F	0 2 7 7 6 E

- a) Construction en série - B - autres cas : A
 b) Monoplace : 1 - Biplace : 2
 c) Paramoteur : 01 - Pendulaire : 02 - Multiaxe : 03 - Autogire : 04 - Aérostat : 05 - ULM à motorisation auxiliaire : 1A - 2A - 3A - Hélicoptère : 06
 d) Code de l'autorité aéronautique
 e) Numéro d'ordre
 f) Utilisation : Loisir : L - Activité particulière : T - Loisir et activité particulière : E

Appellation ou type d'ULM	PAWN M
Constructeur	TRIPLE SEVEN - 777 JADRALNA PADALA D.O.O.
Adresse	Ulica IV . prekomorske 61 5270 AJDOVSCINA - SLOVENIE

DESCRIPTION DE L'ULM

Activités particulières prévues	n/a			
Options prévues	n/a			
Masse minimale	Masse maximale	Volure		
		Fabricant	Modèle/Référence	
80 kg	133 kg	777 gliders TRIPLE SEVEN	PAWN M	
Référence manuel d'utilisation	MANUEL PAWN VERSION 1.0 DU 6/6/14.	ANNEXE PARAMOTEUR FRANCAIS AU MANUEL GENERAL PAWN.	Surface à plat	Résistance minimale d'ancrage
			27.10 m²	78.80 daN
Limitations du constructeur de la voie vs-à-vis des CMP		Puissance maximale 30 KW.		

Pour le Ministre chargé de l'Aviation Civile
Document établi le : 15 Juillet 2014

Benoit PINON
Chef du pôle certification,
Visa de l'autorité SUM de navigabilité et aviation générale

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Je soussigné, _____, certifie que l'ULM numéro de série _____ est conforme au dossier technique ayant fait l'objet de la présente fiche d'identification.

à _____
signature et cachet de l'entreprise



FICHE D'IDENTIFICATION ULM DE CLASSE 1

(à joindre à la carte d'identification)

a	b	c	d	e	f	Rev n°
B	1	0	1	S	F	0 2 7 7 7 E

- a) Construction en série - B - autres cas : A
 b) Monoplace : 1 - Biplace : 2
 c) Paramoteur : 01 - Pendulaire : 02 - Multiaxe : 03 - Autogire : 04 - Aérostat : 05 - ULM à motorisation auxiliaire : 1A - 2A - 3A - Hélicoptère : 06
 d) Code de l'autorité aéronautique
 e) Numéro d'ordre
 f) Utilisation : Loisir : L - Activité particulière : T - Loisir et activité particulière : E

Appellation ou type d'ULM	PAWN L
Constructeur	TRIPLE SEVEN - 777 JADRALNA PADALA D.O.O.
Adresse	Ulica IV . prekomorske 61 5270 AJDOVSCINA - SLOVENIE

DESCRIPTION DE L'ULM

Activités particulières prévues	n/a			
Options prévues	n/a			
Masse minimale	Masse maximale	Volure		
		Fabricant	Modèle/Référence	
100 kg	166 kg	777 gliders TRIPLE SEVEN	PAWN L	
Référence manuel d'utilisation	MANUEL PAWN VERSION 1.0 DU 6/6/14.	ANNEXE PARAMOTEUR FRANCAIS AU MANUEL GENERAL PAWN.	Surface à plat	Résistance minimale d'ancrage
			30.20 m²	98.10 daN
Limitations du constructeur de la voie vs-à-vis des CMP		Puissance maximale 30 KW.		

Pour le Ministre chargé de l'Aviation Civile
Document établi le : 15 Juillet 2014

Benoit PINON
Chef du pôle certification,
Visa de l'autorité SUM de navigabilité et aviation générale

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Je soussigné, _____, certifie que l'ULM numéro de série _____ est conforme au dossier technique ayant fait l'objet de la présente fiche d'identification.

à _____
signature et cachet de l'entreprise

Safety and responsibility

Paragliding is a dangerous and high risk activity, where safety depends on the person practicing it. By purchasing this equipment you are responsible to be a certified paragliding pilot, and you accept all risks involved in paragliding activities, including serious injury and death. Improper use or misuse of paragliding equipment considerably increases these risks.

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 equipment should only be used by qualified and competent pilots or by pilots under supervision of qualified paragliding instructors. You must not use this equipment if you are not trained.

You alone as a qualified and competent pilot must take full responsibility to ensure that you understand the correct and safe use and maintenance of this paragliding equipment and to use it only for the purpose that it was designed for and to practice all proper safety procedures before and during its use.

Guarantee

Triple Seven WARRANTY:

All Triple Seven products are fully warranted for 24 months, against material defects that are not the result of normal wear or accidental damage.

Registration information

To fully use all Triple Seven maintenance and warranty services you need to register your glider on our website. Wanting to provide good product support, we invite you to do so, even if you bought your glider second-hand.

Triple Seven Warranty & Product registration:

<http://www.777gliders.com/tripleseven/support>

Get involved

As a new Triple Seven pilot we invite you to contact us in case of any technical or practical issues regarding equipment or techniques. We also invite you to send us your flying photos, videos or even postcards. We would like to hear from you and your exciting adventures with your new PAWN! Finally, join our Facebook community and share the passion. Have fun!

Contact

Triple Seven Gliders

Company: 777 jadralna padala d.o.o.

Address: Ulica Ane Zihlove 10

Postal Code / City: 1000 Ljubljana

Country: Slovenia

Tel.: +386 40 777 313

Email: info@777gliders.com

Online resources

For complete help, the latest news, product information and support go to:

Official website:

www.777gliders.com

Facebook:

www.facebook.com/TripleSevenParagliders

Newsletter register:

www.777gliders.com/newsletter/subscriptions

Ask questions, make suggestions

General questions:

info@777gliders.com



Top 5 tips

1. Master your takeoff and ground handling techniques. This is great way to get a feeling for the glider and basic active piloting safe on the ground.
2. Fly together with friends and have fun! Share exciting stories and ask questions to more experienced pilots.
3. Safety first, remember that its better to stay on the ground wishing to be in the air then to be in the air wishing to be on the ground. Mountain will wait for another day.
4. Step by step, practice your equipment and techniques. Climbing is the most important! Practice it, especially in weak conditions and don't be afraid to bomb out.
5. Attend safety and XC courses and learn to fly your glider safely.
"Gašper Prevc"

TRIPLE  SEVEN