

This manual is intended expressly for the use of individuals owning a Delta II Parawing and applies to no other deceleration device except the Parawing. The manual contains the latest information available regarding performance, packing, care and handling and maintenance of the Delta II Parawing, and is not to be considered as any kind of warranty by Irvin Industries, Inc. or its distributors on the performance of any individual Parawing.

The Delta II Parawing is recommended for use by experienced parachutists and careful study of the information presented herein will enable you to get the utmost performance and enjoyment out of your Parawing consistant with offery.

#### PREFACE

Welcome to the wonderful world of sport perschuting! As the new works a policy land personnel of the property of the personnel of the personne

The Delta II has generated a new and exciting atmosphere within the parachuting sport as evidenced by comments from veteran jumpers, some of whom had lost interest in the sport and were considering "retirement". After jumping the Delta II their reaction was as if they had just re-discovered the sport of parachuting.

It makes little difference if you are an avid competition jumper or just a weekend participant who jumps for the fun of it. In either case you will find that with the Delta II Parawing you have a device whose accuracy and gliding ability is unsurpassed.

You and your Parawing are an unbestable team, and together you will discover a vast new area of parachuting that previously did not exist. Irvin Industries, Inc. is proud to present the Delta II Parawing to you, and wishes you many happy, accurate landings.

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### IRVAN INDUSTRIES GICGREORATED

On April 28, 1919, Mr. Leslie L. Irvin made the first free-fall parachete jump from an air plane at McCook Field, Deyton, Ohlo. This first temp dispelled the popular belief, that a man would black-out immediately upon jumping from a plane.

Mr. Invie, who was the chief on inventor of the manually-operated fine-fall paracipute, had made many jumps fromballoons with earlier chutes and knew that these beliefs were without proper foundation. Witnessing safety officials that day instigated immediate agaptation of the free-fall parachute as standard equipment for all military aircraft.

During the same year, Mr. Irvin organized the Irvin Air Chute Company and was awarded a contract by the Army Air Corps. The present company (Irvin Industries, Inc.) is comprised of the six U.S. facilities; one in Canada, Australia, South Africa; seven in Europe; and one in Japan. The company at one time held ninety-five percent of all basic perchate petents. It ourrently holds 28 active patents and hee several pending.

Irvin Industries Inc. hab a long continuing history of parachuse "firsts", a few of which are mentioned below.

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1964	XB-70A Landing Deceleration Sys	tem		
1969	The Delta II Parawing			
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Irvin has saved over 200,000 lives with parachutes, including that of Jimmy Doolittle, whose memorable wire states "Airplane failed — chute worked". Irvin is not engaged in the manufacture of just recovery systems however. The product line includes automobile seat belts, vending machines, metal products, air eargo containers, and motor generators, to name a few.

With the long list of successful accomplishments enjoyed by Irvin Industries, Inc., future innovations in the parachute industry are assured. With an aggressive, experienced engineering staff and modern facilities, we are constantly looking sheed, pushing back the state-of-the-art, to bring you today what others promise you tomorrow.

#### HISTORY OF THE PARAWING

The Delta II Parawing has been known as the Rogallo Wing, Flatwing, Limp Paragilder and the Individual deployment glider. Several of these terms have only recently come into being, thus leading one to believe that the Parawing is a recent development. This is not the case, however, for the Parawing was conceived in 1946 by Mr. Francis M. Rogallo, an aeronautical engineer employed by the Government. Working at home in his spare time, Mr. Rogallo experimented with his new device, testing it in a homemade wind tunnel, free flying it as a hand launched glider and tethered outdoors flying as a kite. His private endeavor spanned 13 years from 1945 to 1958, when America's entry into the exploration of space brought considerable interest from governmental agencies in this and other unconventional ideas.

After extensive testing, the practical application fo Mr. Rogallo's invention was quickly realized. With its gliding ability and pin-point accuracy it could be used for the safe return of astronauts from space, air cargo delivery, individual troop use and other applications where its flying characteristics could be put to advantageous use.

Realizing that the Parawing represented a totally new concept in deceleration devices, irvin industries, inc. began a developmental program on the wing in 1966. After three years of extensive testing, which saw the incorporation of many design innovations, the Parawing is being introduced to the world of sky diving where it will get its most exhausting use.

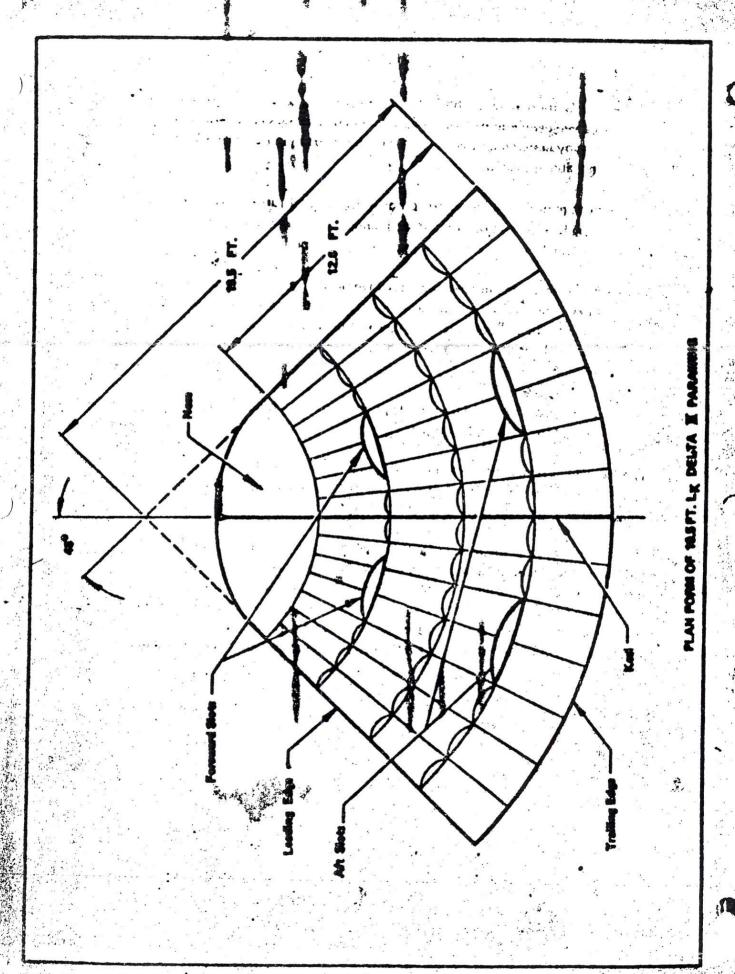
Extensive testing is continuing today by various agencies who are looking at advance designs of the Parawing for future applications.

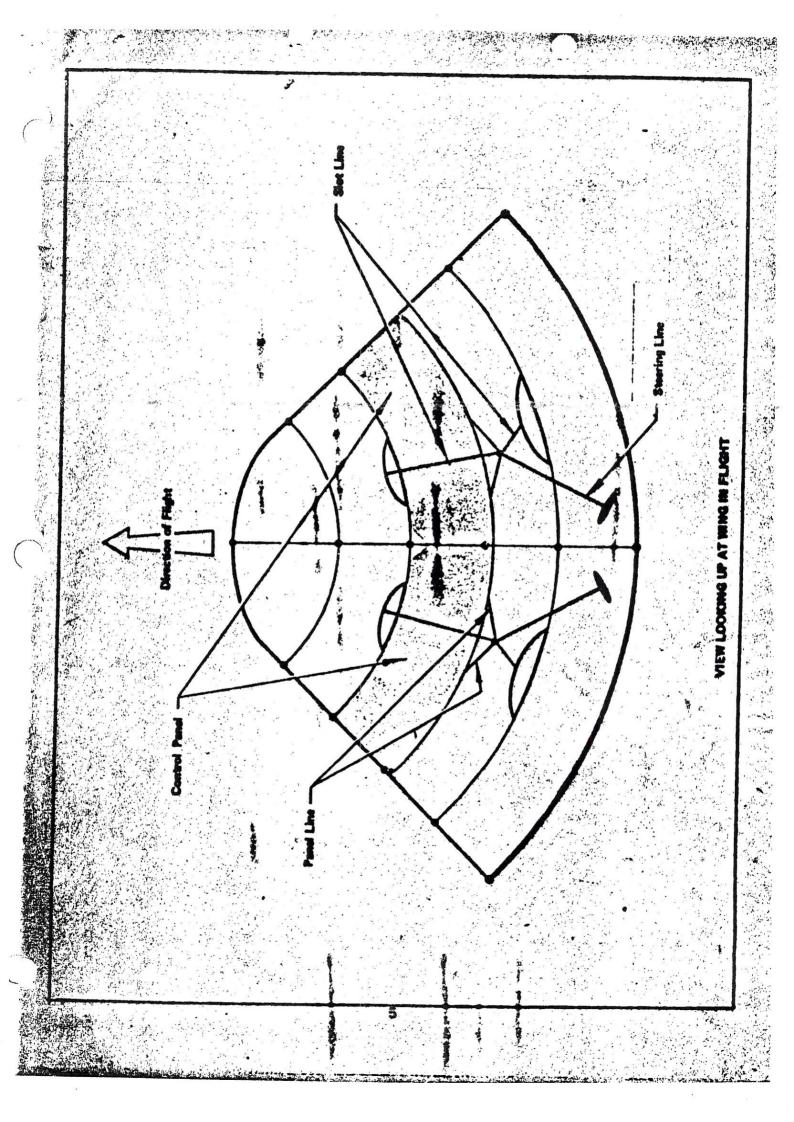
#### TECHNICAL DATA

- The Delta II Parawing has a 254 square foot surface area, consisting of fourteen gores, each having five aerodynamic lifting sail panels. The canopy material is basically 2.25 ounce ripstop nylon cloth, calendared and silicon treated.
- Both material and geometric porosity (open trea) vary at a function of wing location. However, the total emopy perceity is 32 percent of the wing's surface area under typical descent conditions.
- The suspension network consists of ten leeding edge lines and six keel lines. These are all nylon and have an ultimate tensile strength of 1000 pounds. In addition, there are two slot lines, two panel lines and two steering lines. These lines are also nylon and have a 750 pound tensile strength.
- Risers are contructed from 6500 pound type XIII, nylon webbing with 3600 pound type VIII keepers .

The Parawing's reference size is measured from the trailing edge along the keel and terminates at a focal point of the 90 degree annular sector. Thus the Parawing has a reference keel length of 19.5 feet and is written "19.5 ft. LK".

High performance of the Irvin Delta II Parawing is due to its basic airfoil design accompanied with introduction of radial louvers in the wing's upper surface to provide directionally controlled air streams. Such controlled air streams promote laminer flow control, wing shaping and a thrusting action. These louvers give a slight saw-tooth profile to the wing created by incorporating extra width to the trailing edge of the gore panels. They also provide a favorable increase in the stability of the wing when compared to the "solid" or nonslotted versions.





#### PERFORMANCE DATA

Rate of descent

(Steady Glide)

50% Brakes

75% Brakes

Full Brakes

Turn Rate (360°)

From straight flight

After 1 revolution

Suspended weight

Maximum lift/drag ratio

Maneuvers

14-16 ft./sec.

15-17 ft./sec. (approx.)

16-20 ft./sec. (approx.)

20-30 ft./sec. (approx.)

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2.8 100.

120 to 250 lbs.

2/1

Glide, brake, turn, stall

#### PARAWING OPENING

Delta II Parawing openings are consistent and reliable. The opening process is ansitive with a logical, repeatable cycle being maintained. The Parawing opening consister of four (4) separate stages as follows:

- 1. The lines payout from the big until the beg locking flap is released.
- The bag is dragged off the folded wing and the wing unfolds as it emerges from the bag.
- 3. After the wing clears the lag, the nose inflates, creating the initial deceleration shock felt by the jumper and line stretch occours.
- 4. When the nose inflates, it pulls a locking tab off the Opening Shock Inhibitor allowing the OSI to unwrap, thus freeing the lines and allowing the wing to completely inflate. (The Opening Shock Inhibitor is a device that is attached to the wing and wraps ground the lines during packing. Its purpose is to provide a smooth controlled opening. Further information regarding the OSI is presented in the packing instructions.)

It takes only a few seconds for the OSI to unwrap from the rear lines. If by any chance the OSI fails to unwrap completely, jerking of the left front riser will complete the unwrapping process. Once the canony is fully inflated the OSI will be trailing from the left rear trailing edge of the wing.

After Delta il Parawing Inflation, the parachutist will intractately notice two distinct flight characteristics; one being the high maneuverabilitat, and the other is wind noise due to the forward penetration of the glide. A lift oversirag ratio of 2 to 1 is typical; in other words, the parachutist will glide approximately 20 feet horizontally for every 10 feet of vertical descent.

#### **FLIGHT CHARACTERISTICS**

#### TURNS

Stable, slow turns can be commenced by smoothly and slowly pulling down on either toggle knob (found on the aft side of the front riser on both the left and right side). The turn will commence as soon as the toggle knob is pulled away from the control line keeper. As the knob is pulled further and further down, the turn rate will increase as will the swing angle, 'g' forces on the body and rate of descent.

Upon releasing the toggle knob completely, the wing will stabilize and the body will swing out in a slight reverse are and return to the normal position under the wing.

During this turn recovery period, the body's forward speed can be heard to diminish to silence as the wing slows, and then the air rush can be heard increasing again as the wing returns to normal flying speed.

If you should fly the wing with the toggle knob unconsciously pulled slightly down, you will find turns in either direction slightly less responsive than normal.

To effect a turn while in the half to full brake position, let up on the toggle opposite the direction you wish to turn. For example, to execute a right turn, let up on the left toggle.

It is important to mention here that you should not attempt tight turns while you are "low and slow". The Parawing may be likewed to an airplane that attempts to turn while near it's stalling speed. If you apply a little afteron and rudder to start the turn, the plane will fall off on one wing and begin to spin because it doesn't have sufficient speed to maintain flight.

The Parawing is more like an airplane than a parachute. The same rules of flight apply to both the airplane and the wing.

So, - if you're below 500 feet, don't attempt my steep turns. Just keep in mind that as you reach low altitudes and begin your run on the target, ONLY MINOR CORRECTIONS SHOULD BE MADE. Don't attempt any radical maneuvers. Non-compliance with these instructions can be hazardous.

#### BRAKING

Braking to slow the wing merely requires slowly and smoothly pulling down both toggle knobs. At about shoulder height the forward speed will be decreased to approximately 5 miles per hour. The L/D can be advantageously decreased or increased by the proper application of brakes. The rate of descent will range from 14 feet per second with no brakes to approximately 30 feet per second with full brakes applied. A wide variation such as this can be used to full advantage to turn a near miss into a scoring jump, but it must be used with proper judgement and technique to be effective.

#### STALLS

The Parawing, like any other gliding device, is subject to stalling, or loss of flying speed. A stall may be effected by pulling both toggles slowly and smoothly downward slightly pest the full brake position. At this point your forward speed gradually diminshes to zero and an accelerated vertical velocity begins. As the stall mode is entered, the canopy remains fully inflated, but loses some directional stability by drifting slightly to the right or left. This is easily corrected for by elternately pulling on the toggles. After a little practice you can keep the canopy directly everhead throughout the stall. If you do not correct the canopy, it will begin a gradual turn to whatever side it has drifted to. Once this happens, the controls must be set free and the canopy will resume a stable gliding attitude within a few seconds. It is to be emphasized that the vertical velocity during a stall can be as much as 30 feet per second. For this reason, it is cautioned that stalling is not a recommended maneuver below 500 feet above ground level.

#### GLÍDES (L/D)

The Delta II Parawing has an inherent gliding ability that is perhaps its most exceptional attribute. While its gliding ability is noteworthy, it is important to remember that certain variables, such as wind velocity and the direction the canopy is facing, can, and do influence the L/D or glide angle with respect to a given point on the ground. The type of terrain you are over also affects your glide peth, as certain kinds of surfaces are more effective than others in heating the air directly above.

Ploughed ground, rocks, sand and barren land give off a great deal of heat. These rising warm air currents are commonly known as updrafts and are encountered at low altitudes over these types of surfaces. On hot days the updrafts will be more prevalent than on cool days. When you get to low altitudes and begin your run on the target and encounter updrafts their effects must be taken into account. The extra lift created by the updraft can be nullified by gradual braking which will prevent overshooting the target.

Water and vegetation, on the other hand, have a tendency to retain heat thus allowing a downdraft of all The effects of a downdraft can be hazardous at low altitudes due to the added vertical velocity orgated by the falling air currents.

The maximism and is obtained during free flight (hands off the controls). In this condition the Parawing will fly in a stable, maximum glide attitude. The nominal L/D may be decreased by the gentle application of brakes. The more brakes you use, the slower you fly gausing a corresponding loss in lift and a subsequent increase in vertical velocity.

#### TARGET APPROACH

In sport parachuting, and particularly accuracy jumping, target approach is perhaps the most challenging aspect of the jump. A good exit, style and maneuvering can be exceptional but secondary if a dead center is missed due to poor target approach. The Parawing, with its serodynamic qualities can make target approaches exciting for even the most experienced parachutist.

As long as you exit within one-half mile of target and deploy the Perawing at a minimum altitude of 2,000 feet, you can make it back to target from any direction as long as the winds are less than 8 miles per hour. When the winds are excessive, exit well up-wind of target to avoid possible overshooting of the landing area.

You will find that you can hit the pea gravel every time after a few practice flights. The first problem everybody encounters is overshooting the target area because one is unaccustomed to the high forward speed of the Parawing. With gentle application of brakes after crossing the edge of a pit, the wing can be made to settle in an erea where dead center landings are only a matter of foot placement. A suggested approach to target on low wind days is simply to slowly circle the target area about one hundred yards out and when you feel you are low enough and at least cross wind, or better yet, towards upwind, slowly turn in for landing. Another suggested approach is to turn upwind on final over the spot that yellds the proper trajectory angle to the target based on the wind conditions encountered. Adjust the trajectory through gentle braking adjustments to maintain the desired "approach angle" to the target disc.

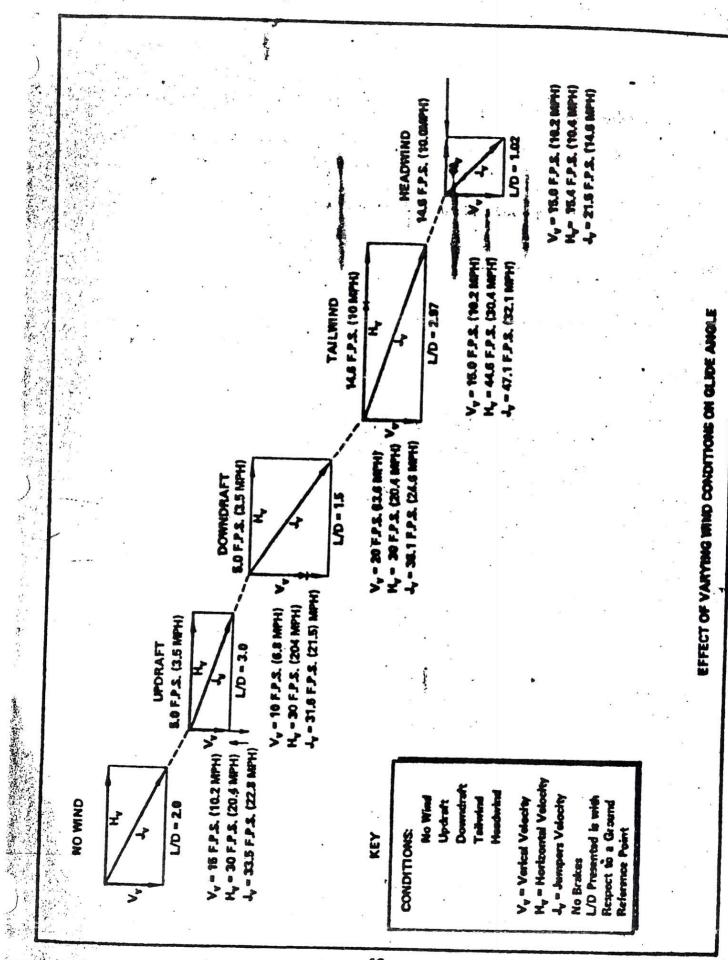
Because of the greater forward speed of the Parawing, it requires an earlier application of braking to slow down. Also no forward or rearward swing, as with a conventional perachute canopy, occurs when the brakes are applied and released. Should you desire to avoid conflict with other canopies at your same height, tight 3600 degree turns will lose altitude rapidly and allow you to make your run on target from any direction without interference.

Initially, it is suggested that all landings be make facing into the wind from about 100 feet and after assuming a normal landing position. After landing and once the suspended weight is taken of Pthe Parawina, it will sollands.

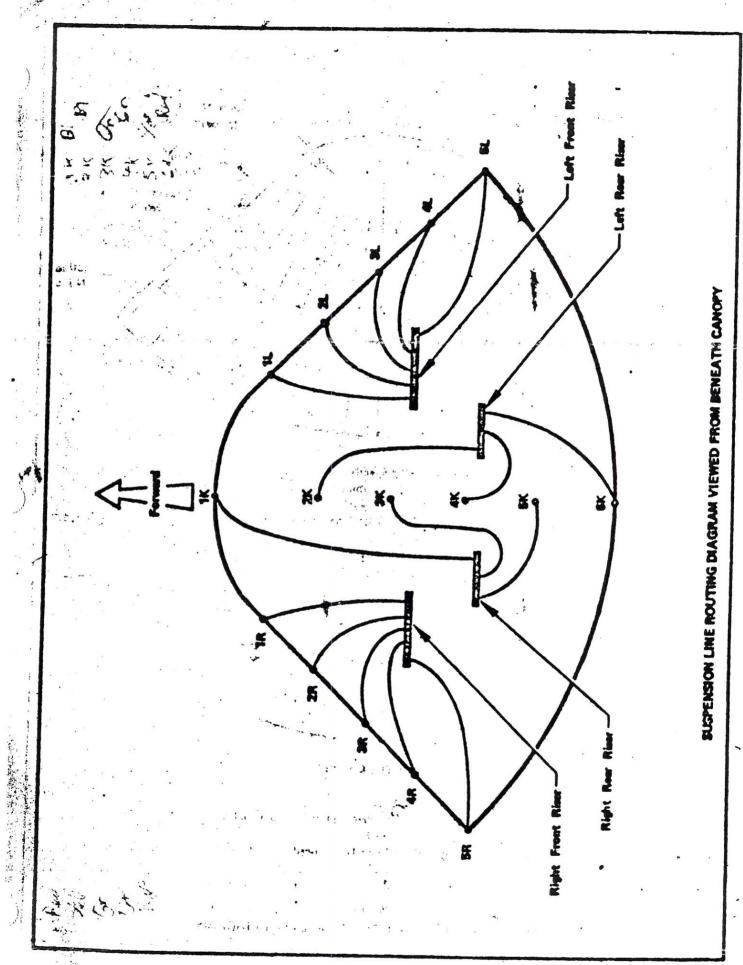
#### RESTRICTIVE FLIGHT MANEUVERS

Because the Parawing in its sport parachuting configuration has been designed for high glide ratio and wind penetration, certain limitations to low altitude meneuvers an nécessary. It is strongly recommended that the three basic points of advice be understood and followed exactly before jumping the Parawing.

- 1. Stalling Do not attempt to stall the wing below 500 feet above ground fivel.
- 2. Steep Turns Do not attempt steep turns at low altitudes. Plan large radius turns with minor corrections in the final approach.
- 3. Landing Always land the Parawing upwind.



CONTROL PANEL on Ordering Speelfy: 1) That needed Panel is for Control Panel 2) Color of Panel 2) Number of Pands Req



#### PACKING PROCEDURES

These packing instructions are attended only für personnel theroughly experienced in the packing of sport paralliuse. Due to theperodynamic features of the Delta II Parawing, no deviations or additions from these instructions should be made. Inexperienced parachutists are advised to seek the aid of a licensed parachute rigge.

Packing can usually be done near the landing zone as it only requires a few minutes.

If you desire to pack elsewhere, without removing the harness, chain link the suspension lines up to the wing. Roll the wing up into a ball and remove it to the packing area.

Line entanglements are extremely rare, as long as the risers are not 'disconnected from the harness. Suspension and control line orientation as shown on the enclosed figures should be verified before packing is begun.

#### WARNING

- Do not change any suspension line langths.
- 2. Do not change any rigging of control line lengths. Flight performance can be seriously affected.

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 Do not attempt to repair or replace suspension lines except with proper factory supplied pre-assembled and properly measured replacement lines.

COVER PHOTO CREDIT: M. ANDERSON JENKINS

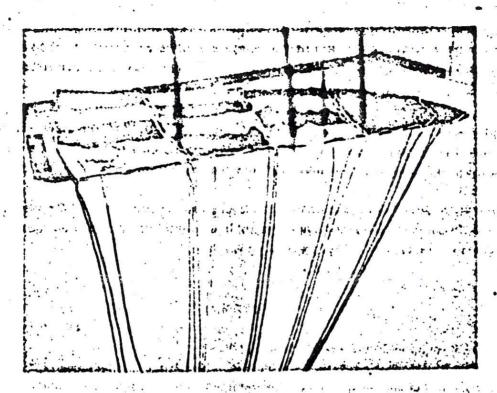


FIGURE 1

Ley the wing on the floor or ground. The open pack tray should be facing down (harness up) as seen from the pack tray. The wing should lay on its side with the nose pointing to the right as seen from the pack tray (FIGURE 1). The OSI should be untangled and extended flat from the trailing edge. Tension (5 to 10 pounds) is helpful as you fold the wing to keep the lines straight, so if the pack tray can be secured, do so.

#### LINE CHECK

Line check is made by lifting the top right side of the wing as shown (FIGURE 2). All five lines on the right leading edge should run directly to the right front connector link and the five lines on the left leading edge should run directly to the left front connector link. If these lines have no other lines running over the top or through them, all lines are straight provided that the Capewells have not been disconnected since the previous property rigged jump.

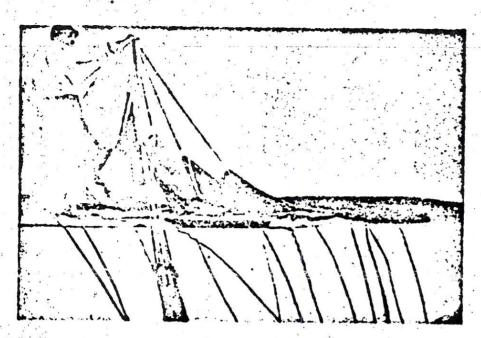
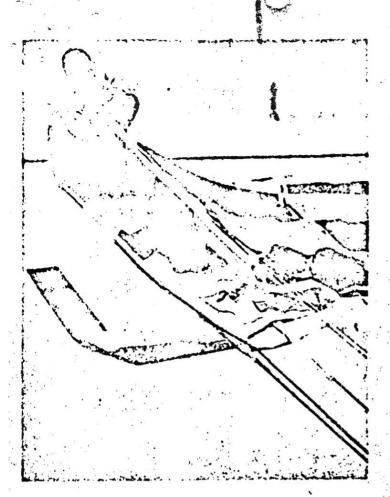


FIGURE 2



FIGURE 3

Check the locking tap lanyard that is attached to the K2 loop and passes through the D-rings on the keel (FIGURE 3). Be sure the lanyard is not twisted or knotted around any lines. After the above checks have been made proceed with the packing as outlined in the following steps.

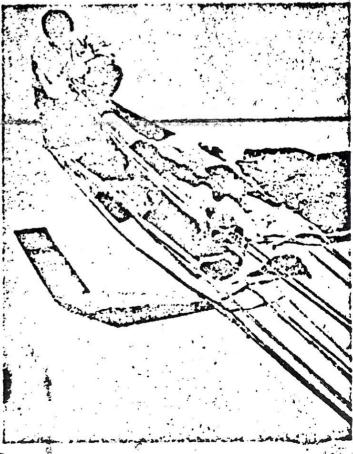


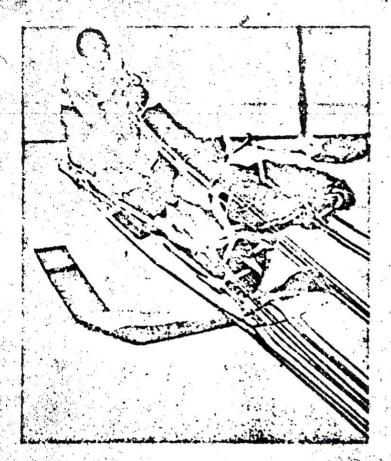
Standing at the top of the wing (facing the container) greep the top of the wing as shown in FIGURE 4, and fold this section in half. Be sure to pull the top of each lobe in order to maintain tension in the keel lines as well as the leading edge lines during the folding process.

FIGURE 4

Grasp the wing at the next section and pull it toward you to remove the line slack and fold in half per FIGURE 5. Lay this fold on top of the preceeding fold.

FIGURE 5





Grasp the wing at the next section, pull it toward you to remove line slack and fold it over on top of the preceding two sections.
(FIGURE 6)

FIGURE 6

Fold the final section in half and place directly on the preceding folds. (FIGURE 7)

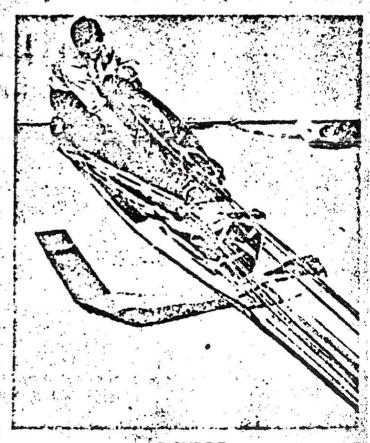


FIGURE 7



FIGURE 8

Split the nose section to the left and right and wrap each half around the outside of the folded canopy as shown in FIGURE 8.

The folding process is now finished.

The next operation to be completed is the wrapping of the Opening Shock Inhibitor (OSI) tab properly around the lines to control the "staging" or progression of the wing opening sequence. This procedure must be accomplished properly in order to achieve reliable openings.

(See next page)

#### WRAPPING THE OPENING SHOCK INHIBITOR (OSI)



FIGURE 9.

Pass the realing tab(OSI) over the red and gold group and wrap it completely around once as shown in FIGURE 10. Separate the three red lines (5L, 5R, & 6K) plus the five gold lines (4L, 4R, & 5K) and two steering lines from the rest of all the lines as shown in FIGURE 9.

IMPORTANT - Make sure that the above mentioned lines are completely free of the remaining lines and there are no cross-overs as shown in FIGURE 12A, page 22.



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FIGURE 10

Separate the three green lines (3L, 3R, & 4K) from the main group and place together next to the green marker on top of the rolled OSI as shown in FIGURE 11.

Wrap the OSI tab completely around these three lines.

The orange marker should now be visible on top of the OSI roll.

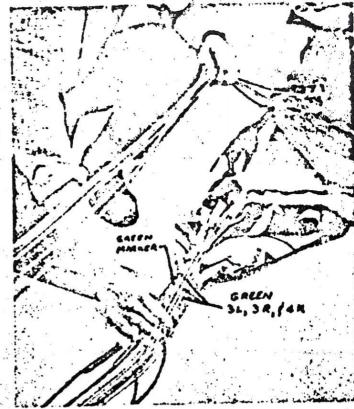


FIGURE 11

As in the previous steps when separating each color group, make sure that the lines in that group do not cross over or interfere with any other lines in the chuts.

Figure 12a shows improper routing of one of the lines in the orange group. Note the crossover as pointed out below:



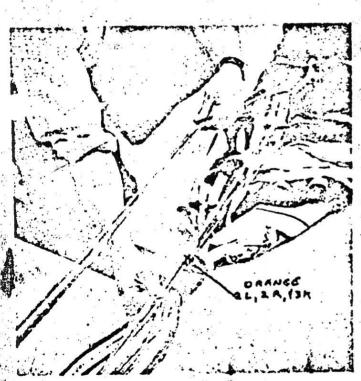


FIGURE 12

Next, separate the three orange lines (2L, 2R, & 3K) from the remaining 4 blue lines and place the three orange lines next to the orange marker on the reefer tab.

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Wrap the OSI tab completely around these three lines. (Ref. FIG. 12)

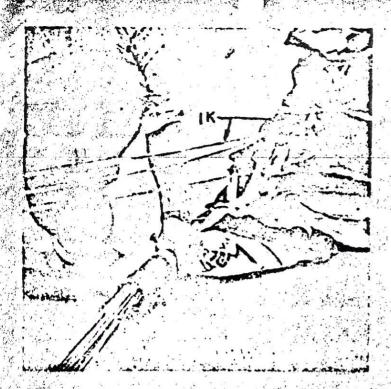


FIGURE 13

Wrap the OSI tab completely around 1L,1R, & 2K, #II blue, and continue wrapping remainder of the OSI tab until the end is reached. Make sure that 1K is omitted completely from all of the remaining wraps and is entirely free from the OSI. FIG. 14

When finished wrapping the OSI<sub>a</sub> there should be a minimum of four and no more than 5½ complete wraps around the first three lines. If you do not come out with these specified wraps, go back and tighten up the preceeding wraps until you do.

#### Reference FIGURE 13

There should now be four blue lines remaining (IL, 1R, 2K, & 1K).

Separate 1L,1R, & 2K from 1K making sure there are no crossovers on 1K and that it is completely clear of the other threeblue lines.

Place 1L,1R, & 2K together next to the blue marker on the OSI roll.

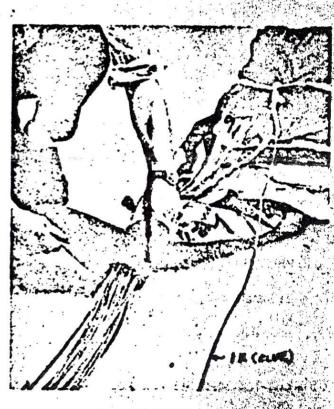


FIGURE 14

Reach up along 4K (Green in color) and pull the locking tab down 4K and place it over the Velcro pile, thus locking the OSI closed as shown in FIGURE 16.

If the Velcro release lanyard is twisted as shown in FIGURE 15. unwind it until it is completely free from 4K and make sure that the D-ring is free and clear from other lines.



FIGURE 15

This FIGURE 16 shows the OSI Velcro release lanyard and locking tab being installed correctly.

#### WARNINGI **WARNING!**

The Velcro locking system shown must be properly engaged as shown before each lump. Failure to do so might yield high opening shock loads that may cause serious injury.

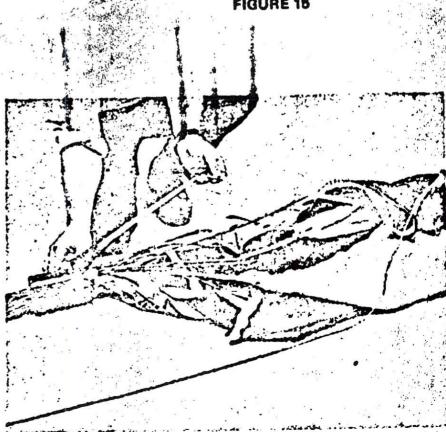


FIGURE 16



According fold canopy into deployment bag, FIGURE 17, by stuffing the wing material alternately into the left and right corners of the bag until is is filled.

FIGURE 17

Place the rolled OSI in last as shown in FIGURE 18

Caution: Make sure the OSI

Velcro locking tab is

still properly positioned

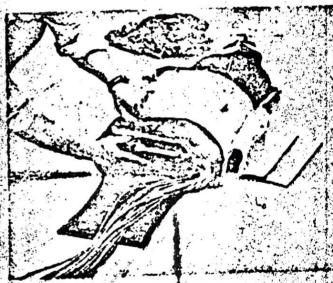


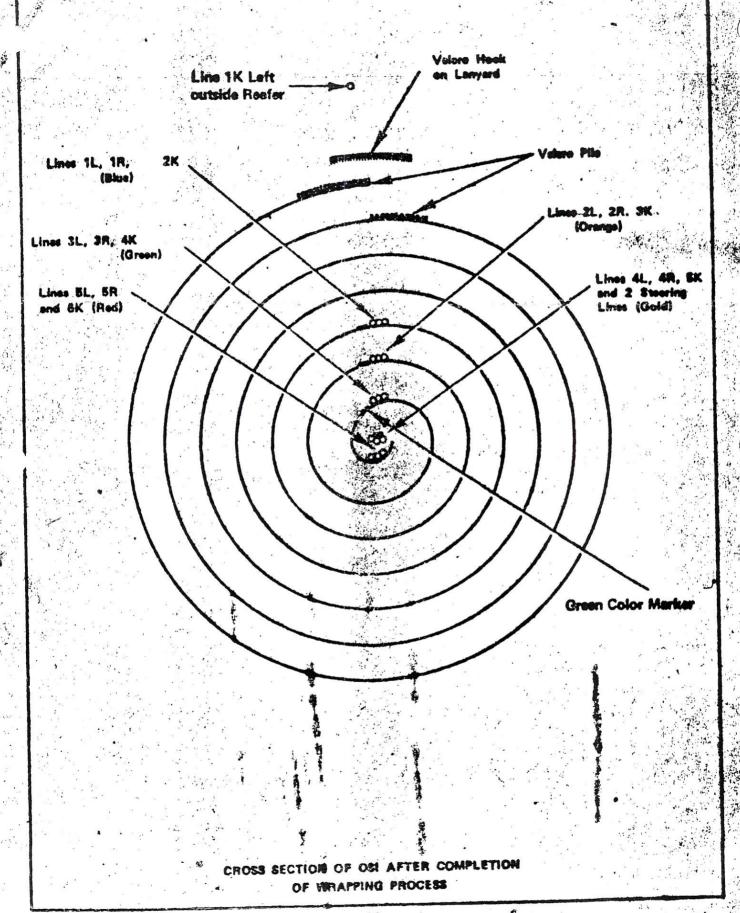
FIGURE 18

Close the deployment beg locking flap as shown in FIGURE 19, and commence stowing the rest of the lines in the conventional manner.

When all the lines are stowed, close the line cover flap and turn the harness and container, essembly over in order to place the stowed wing into the container.

Close the container as required.





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#### CARE AND HANDLING

#### INSPECTION AND REPAIRS

To maintain the Parawing in the best possible condition, it should be inspected after every jump. A brief but thorough inspection will reveal any areas of major demage. Periodically you should minutely examine the wing, penel by penel, and mark any burns, tears, holes or frayed stitching for leter repairs. Any slight demage should be attended to as soon as possible to prevent it from becoming more severe in nature. If there are major repairs to be made, they should be accomplished by an FAA licensed rigger. If one is not available, contact your nearest Parawing distributor who can give you information on where the repairs can be made. Your distributor can also supply information concerning the replacement of penels, should the need occur.

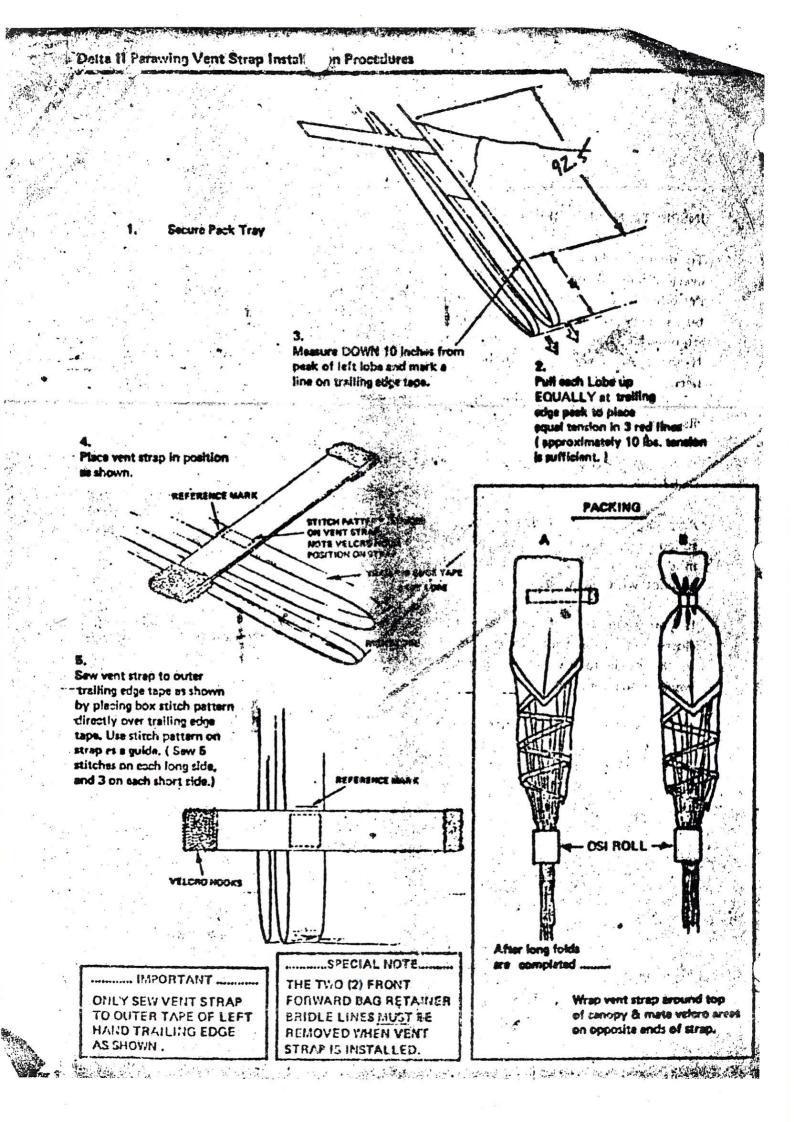
#### CLEANING

Any large deposits of dirt or mud should he remained from the canopy at once. The solled area, or the entire canopy can be weeklight by using lukewern water and a very mild laundry soap. Do not use a detirgent and never allow the canopy to come into contact with oil, grease or acid.

If you jump into sait water, the canopy, liner and all hardware must be thoroughly sinsed with fresh water to remove all sait chapasits. After doing this, hang the canopy in the shade to dry. Never dry the Paraway in direct sunlight as this will tend to weeken the meterial.

If you jump into fresh water, you need only hang the wing in the shade to dry.

Always be sure the Parawing is completely dry before packing. If you wish to store
it for extended periods, it should be hung or loosely packed in a cool, dry place.



#### QUALITY CONTROL OPERATION NO. 167

76-130 Parawing Station-Check-Out

5/N 224

#### Inspect

- 1. Bridge tapes for dimensions and zig-zag stitching. Check for zig-zag stitching on Keel at each Keel line loop.
- 2. "D" Rings and -77 Loops on Keel just behind K-3 and K-4. "D" Rings must be snug against Keel.
- 3. -49 Control Panel for correct color pattern and stitching attachment (Double row straight). Insure that no excess material is trapped by stitchings. Check for location of 61 control line loops.
- 4. -73 Buffer Panel for correct position and Check for excess material between stitchings attaching panels to trailing edges.
- 5. 81 Bag Loops for correct location are using check correct locations of front and rear large steering slots and location control line loops.
- 6. -63 Subassembly for correct dimension, and location on trailing edge of left lobe.

## QUALITY CONTROL OPERATION NO. 200 (Final) 76-130

#### Inspect

- Suspension lines for correct continuity and insure each group is free from twists.
- Steering lines for attachment and insure each is fine from twists with main suspension 2.
- K-6 suspension line for correct perition of -91 buffer and hand tacks. (ii) 3.
- -57 Panel Lines and -59 Slot Lines for correct dimensions (1) 4.
- -63 Subassembly for application of -75 tellon learns. 5.
- Risers for correct attachment and routing of control line through ferrule. 6.

11 267.00	18 767.00
2L 2.57.00	an 257.06
3L 247.00	20 1/7.1.0
4L 22850	19.50

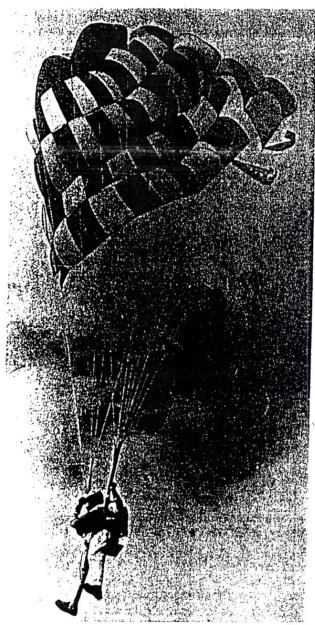
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