TR-375

TACTICAL RESERVE PARACHUTE

BY PERFORMANCE DESIGNS, INC.



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SECTION 1: INTRODUCTION

WARNING AND DISCLAIMER

It is beyond the scope of this manual to teach you how to deploy, fly, land, or maintain this parachute. This manual is only a general guide about this parachute. It is not a replacement for proper training and instruction.

Parachute systems sometimes fail to open properly, even when properly assembled, packed, and operated. There is a risk of equipment damage, serious injury, or death each time this system is used.

Each time you use this parachute you risk bodily injury and death.

You can substantially reduce this risk by: (1) assuring every component of the parachute system has been assembled and packed in strict accordance with the manufacturer's instructions. (2) by obtaining proper instruction in the use of this parachute and the rest of the equipment, and (3) by operating each component of the system in strict compliance with the owner's manual and safe parachuting practices.

STATEMENT OF COMPLIANCE

The policies contained herein comply with the Federal Aviation Regulations, Part 21.

REVISION LIST

Performance Designs, Inc (PD) may revise this manual at any time. The only way to be sure this manual is current for your canopy is to check periodically with PD or check www.performancedesigns.com. PD welcomes suggestions of ways to improve this publication. If you feel parts are incomplete or hard to understand, please let us know by writing or emailing PD. Copyright 2005, Performance Designs, Inc.

DISCLAIMER NO WARRANTY

Because of the unavoidable danger associated with the use of this parachute, the manufacturer makes no warranty, either expressed or implied. It is sold with all faults and without any warranty of fitness for any purpose. The manufacturer also disclaims any liability in tort for damages, direct or consequential, including personal injuries resulting from a defect in design, material, workmanship or manufacturing whether caused by negligence on the part of the manufacturer or otherwise.

By using this parachute assembly, or allowing it to be used by others, the user waives any liability of the manufacturer for personal injuries or other damages arising from such use.

CANOPY PACKING/DEPLOYMENT LOG

As any conventional ram air reserve is repeatedly handled and repacked, the fabric permeability will increase. This increased permeability will affect opening, flight and/or landing characteristics. To monitor this important issue, we have incorporated a tracking and inspection program into our reserve canopies. Compliance with this program is mandatory. Each time the reserve is inspected and packed, a single diagonal line \ is to be placed in the next open box on the label. In the event of an actual deployment, an X is to be placed in the next available box.

The warning label should accurately reflect the repacks and uses on that reserve canopy. In the event a rigger encounters a discrepancy between the packing data card and the warning label, the label should be brought into compliance, just as the rigger would do with any other piece of equipment. The owner of the reserve



should be informed that the rigger is simply complying with Performance Designs' requirement for the label to accurately reflect the repacks and/or uses on that canopy.

After 40 repacks or 25 deployments have been reached, the reserve must have its permeability tested. (In most countries, 40 repacks are usually performed over a 10 to 20 year period.) The testing is performed to insure that the fabric permeability has not reached a point where the openings and landing performance would be unacceptable. Subsequent to passing this testing, an additional label is affixed and the canopy is then returned into service. The label will contain additional boxes, the specific number being chosen according to the results of the test.



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SECTION 2: TSO INFORMATION



Parachute Equipment Manufacturing, Sales, Service 1300 East International Speedway Boulevard DeLand, Florida 32724 Telephone: (904) 738-2224 Fax: (904) 734-8297

FAA Atlanta Aircraft Certification Office 1701 Columbia Ave. Suite 2-160 College Park, GA 30337-2748 Att.: Cindy Lorenzen

7 March 97

Dear Ms. Lorenzen:

Enclosed is a complete technical data file containing: a TR375 file contents, a chronological correspondence file, Qualification and Test Report cover sheets, a copy of FAR Part 21 Subpart O Technical Standard Order Authorizations, a set of engineering drawings, a copy of the Performance Designs, Inc. Owners manual, a copy of AS-8015B, and test documentation for the TR375. No changes in our previously approved Quality Control systems or manual are necessary.

Application is hereby made for authorization under TSO C23d for the TR375 reserve parachute

The undersigned hereby certifies that the Performance Designs, Inc. Reserve canopy P/N TR375 has been tested and found to meet the requirements of TSO C23d parachutes. In addition all other applicable parts of FAR 21, subpart O have been complied with.

Performance Designs, Inc. Already holds a TSO on P/N PD113R, PD126R, PD143R, PD160R, PD176R, PD193R, PD235R, and PD253R reserve parachutes. The TR375 is identical to the existing products with regard to manufacturing processes and quality control. The design and some of the materials have changed for increased strength. It is a different size for better performance with larger loads and higher speeds.

This parachute was tested for qualification/placard limits of 425 pounds maximum suspended weight and 170 knots maximum deployment speed. If you have any questions please feel free to contact me by phone, fax or electronic mail to: bill@pd.net-mail.com

Thank you

Bil lor

Bill J. Coe President

bc/rdr

Performance Designs, Inc. P/N TR375 QUALIFICATION TEST REPORT

FOR CERTIFICATION UNDER TSO C23d USING PERFORMANCE STANDARD SAE AS-8015B

Qualification tests under AS-8015B were conducted as follows for P/N TR375. Further details on tests and video documentation of tests are available at Performance Designs, Inc. DeLand facility.

4.3.3 Compressed Pack and Environmental Tests were conducted on 24 Feb 97 and 3 Mar 97. One heat soak per 4.3.3.1, and one cold soak per 4.3.3.2. Test was performed at Flagler county Airport, Both were successful.

4.3.4.2 Strength Tests were conducted in July 96. Three each were performed on P/N TR375 at Dunellon Airport. No failures of any type were noted.

4.3.5 Functional Tests (Twisted Lines) were conducted on 3 Jan 97 and 4 Jan 97. Five were performed on P/N TR375 at DeLand Municipal airport. All were successful.

4.3.6 Functional Tests (Normal Test) were conducted from 31 Oct 96 to 11 Feb 97 at DeLand Municipal Airport and Flagler county Airport. All tests listed were performed on P/N TR375. All tests were successful.

4.3.7 Rate of Descent Tests were conducted in conjunction with functional tests 4.3.5 and 4.3.6. The highest rate of descent was 14.3 feet per second. All passed by a large margin.

4.3.8 Stability tests were conducted on 10 feb 97 and 11 feb 97 at Flagler County Airport. No oscillations were observed.

4.3.9 Live Drop Tests were conducted by Mike Sigmon and Billy Weber. No discomfort was noted and both were able to remove the parachute assembly unaided.

Submitted by:

Big la

Bill J. Coe President

bc/rdr



APR 14 1997

U.S. Department of Transportation Federal Aviation Administration

Small Airplane Directorate Atlanta Aircraft Certification Office Campus Building, Suite 2-160 1701 Columbia Avenue College Park, GA 30337-2748

APR 1 0 1997

Mr. Bill J. Coe President Performance Designs, Inc. 1300 East International Speedway Boulevard Deland, Florida 32724

Dear Mr. Coe :

This is in response to your March 7, 1997, request for Federal Aviation Administration authorization to identify the Performance Designs Model TR375 reserve canopy in accordance with the requirements of Federal Aviation Regulation (FAR) Part 21, Subpart O, Technical Standard Order (TSO) C23d, and SAE Aeronautical Standard AS-8015B.

We find your March 7, 1997, Statement of Conformance submitted with your request and your Quality Control Manual, Revision 4, dated May 5, 1996, acceptable.

The following data as submitted with your March 7, 1997, letter will be retained on file for this authorization:

a. Performance Designs Drawings TR375-1 through TR375-22, no revision, dated February 21, 1997 through March 6, 1997.

b. Performance Designs P/N TR375 Qualification Test Report and Qualification Test Data

c. Performance Designs PD Series Ram-Air Reserve Parachute Owner's Manual, Third Edition, dated June 1995.

Effective this date, you are authorized to identify Performance Designs TR375 reserve canopies with the appropriate TSO markings required by the applicable TSO and FAR 21.607(d).

This authorization is not transferable to another person or location and is effective until surrendered, withdrawn, or otherwise terminated by the Administrator.

2

Your responsibilities as a holder of a TSO authorization are outlined in FAR 21.3 and FAR 21, Subpart O.

The Airframe Engineer for this authorization is Cindy Lorenzen, telephone number (404) 305-7357. The Program Support Technician is Lorraine Bush, telephone (404) 305-7345.

Sincerely,

ter

Fine Paul C. Sconyers Associate Manager, ACE-117A Atlanta Aircraft Certification Office

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SECTION 3:

PARACHUTE MAINTENANCE AND REPAIR

RESERVE PARACHUTE INSPECTION

OVERVIEW

The Performance Designs reserve parachute must be inspected thoroughly before its first pack and before each subsequent repack. This inspection should be performed with even more care and attention when first assembled and after a deployment. A certificated rigger must inspect the new Performance Designs reserve and determine its compatibility with your rig. This inspection should be done in a clean, well-lit area with enough room to spread out the reserve parachute.

The following is the Performance Designs recommendation for reserve parachute inspection. Consult the owner's manual for the harness and container and other components for instructions for inspection.

VISUAL INSPECTION

TOP SURFACE

Spread the parachute out on its bottom surface and inspect the top surface starting at the front of the left end cell. Check half of the cell from nose to tail. Then check the other half from tail to nose. Repeat this pattern until each cell's top surface has been inspected. Look for rips, stains, snags, burns, abrasions or failed seams.

BOTTOM SURFACE

Turn the parachute over and spread it out to inspect the bottom surface. Again use the procedure of inspecting half-cells as on the top surface. Check for rips, stains and failed seams. Look very closely at the line attachments. Even slight damage is cause for rejection in these areas. Line attachments must be completely free of any damage or defects. Check under the ends of the line tabs.

RIBS

Inspect each rib from leading edge to the trailing edge by looking inside each cell. Pay extra attention to the line attachment points. Check for items such as burns, tears, seam integrity and pulled threads. Also check the cross ports.

STABILIZERS AND LINE CONNECTIONS

Lay the parachute neatly on one side, stacking each loaded rib on top of the others. Check that all lines in each line group are the same length and that the trim differential between each line group is correct for this reserve. Check the condition of the stabilizers and slider stops on the stabilizer.

SUSPENSION LINES

Check the full length of each line for damage and wear. Look for fraying at all cascades and where each line attaches to the connector link. Check that all lines are sewn and that the stitching is good. Check the continuity and routing of each line.

SLIDER

Ensure the fabric is not torn, the grommets are undamaged with no sharp edges, and that they are securely attached to the slider. Be sure every suspension line and both steering lines pass through the proper grommet on the slider. Inspect the integrity of the bridle attachment points on the slider



RISER AREA

Visually check the link and its condition. If the link is not bent, cracked or damaged, the link is ok for continued service.

PROTECTIVE LINK COVERS

Insure that the protective link covers located on the connector links are the correct ones, are positioned correctly, are in good condition and are properly secured with tacking cord.

TOGGLES

The toggles must be installed correctly and must match the guide ring and the hook and loop fastener on the risers. Performance Designs canopies come with brake settings and toggle tie on marks set for PIA standard riser/brake dimensions. This standard calls for 4 inches (10.2 cm) from the top of the riser to the top of the brake-setting ring. If the risers are more than 1 inch or (2.5 cm) different from this standard the parachute must be modified. This modification may only be done by a master rigger and must be reported to Performance Designs, Inc. In addition, any changes must be marked on the parachute's data panel.

FABRIC TESTING

STRENGTH

Performance Designs recommends that a random sample of 10% of all reserves placed in service within your organization be strength tested once per year. A minimum of 3 per year should be tested if the inventory is less than 30 parachutes. If a failure occurs during one of the tests, the cause of that failure shall be determined. If the cause of fabric failure is due to an isolated event (i.e. acid contamination or a cigarette burn), then the testing may be continued at the 10% level. If the cause of the failure is undetermined, contact the manufacturer for further guidance on further testing and any other required actions. The environment in which the parachute has been used may have a significant effect on the strength of the fabric (i.e., desert sun, salty conditions).

Use commercially available 1-inch (2.5 cm) wide fabric testing clamps with rubber-faced jaws and appropriate scale. The scale should be calibrated at least once per year and be accurate within 1.0 lb (0.45 kg). The clamps should be free of any burrs or rough edges that could snag the fabric.

Three fabric strength tests should be performed on each of the following locations on the parachute:

- left end cell, top surface
- right end cell, top surface
- center top surface near trailing edge

The test should never be done where any part of the fabric involved in the test is within 3 inches (7.6 cm) of any seam or the data panel. The test should be done chord-wise. An additional test must be performed on any stained or discolored areas.

Attach the locking fabric clamps to the ripstop fabric. The distance between the clamps should be 3 inches (7.6 cm) and the clamps should be aligned so that the ripstop pattern is parallel to the edge of the jaw.

Lock the clamps securely to avoid slippage. Pass a short length of cord through the eye of one clamp and secure to the packing table or other object that will allow a 30 lb (13.6 kg) load without movement.



Pass the hook from the spring scale through the other eye and apply a 30 lb (13.6 kg) load for 3 seconds.

PERMEABILITY

The permeability of the fabric is very important. As the permeability increases, the parachute will open more slowly and flight performance will deteriorate. The rate of descent will increase and the forward speed will decrease. The ability of the parachute to flare to a soft landing will decrease.

To ensure the parachute is safe to use, Performance Designs has established an average permeability limit of 8.0 cfm for the reserve parachute throughout its service life.

Fabric permeability does not change while the parachute is packed; it changes because of use, packing and handling. That's why it is important to maintain a complete history of the parachute.

Fabric permeability must be tested if any of the following events occur:

- The parachute is completely submerged in water.
- 25 jumps have been made on the parachute since it was new or last certified.
- The parachute has been repacked 40 times since it was new.
- The parachute has an unknown number of jumps, repacks, or there is reason to believe that jumps or repacks were not properly logged.
- Flight performance appears to be substandard.
- There are other reasons to believe the fabric permeability may exceed specifications.

The Performance Designs factory is equipped to perform permeability testing. It is recommended that any parachute needing such testing be returned to the factory.

MAINTENANCE AND REPAIRS

Repairs should only be performed by appropriately rated riggers with training and experience specific to PD parachutes.



ATTACHING THE RESERVE TO THE RISERS

ATTACHING THE RESERVE TO THE RISERS

OVERVIEW

When assembling a Performance Designs canopy onto risers it is important that the directions are followed precisely. The first time you perform an installation, it should be under supervision. If these directions are followed correctly, and only parts supplied by Performance Designs are used, these links will provide excellent service.

CONNECTOR LINKS

Remove all grease and dirt from links, using a solvent that will leave no residue. Trichloroethylene or electrical contact cleaner is recommended.

Inspect the links carefully. Check for nicks, burrs and any sign of bending or stress. Check to be sure the barrel will screw down at least 2-3/4 turns from first engagement with no resistance.

If the bumpers are not already installed, slide them over the links and onto the lines. You can use a pull up cord to assist you in doing this.

Attach the connector links onto the risers and tighten the links - finger tight.

Perform a thorough line continuity check at this point, making sure that the canopy is rigged correctly.

Tighten the link finger tight and torque to 20-30 in lbs-force (2.26 - 3.39 Nm). To accurately gauge this, place a 5 lb. (2.27 kg) weight on a wrench, 5 inches (12.7 cm) from the link. When the wrench is horizontal and the barrel no longer turns, the link is fully tightened. Do not tighten more than 30 in lbs-force (3.39 Nm).



ATTACHING DACRON STEERING LINES TO TOGGLES

ATTACHING DACRON STEERING LINES TO TOGGLES

OVERVIEW

The following contains instructions on toggle attachment. A mark is provided on the parachute steering line that is the best location for the toggle. If the toggles are above the mark, the parachute will not have the forward speed it should and may not land well.

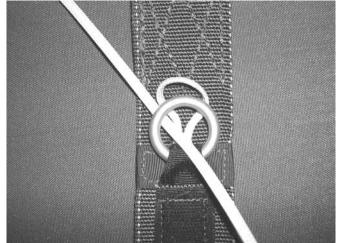
Attach the steering toggles according to the rig manufacturer's instructions if they are compatible with the type of steering line used. Be sure the knot cannot get caught on the riser guide ring.

If the rig manufacturer gives no conflicting instructions, then Performance Designs recommends either of the following methods. The methods shown will work well for most toggles.

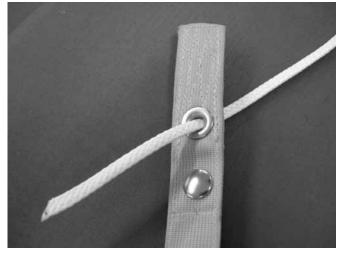
PROCEDURE

NOTE: Prior to hooking up the steering toggles, make sure the steering line passes through the grommet on the slider.

Route the steering line through the guide ring located on the riser.

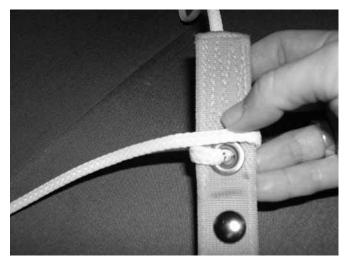


Continue to route it through the grommet in the toggle, starting from the hook and loop fastener side.

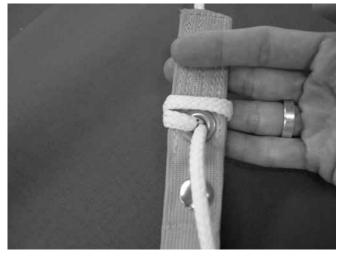




While holding the toggle mark in place, wrap the cut side of the steering line around the toggle 1 $\frac{1}{2}$ times.



Insert the steering line thru the grommet again from the backside of the toggle.



Tie a half-knot in the steering line...

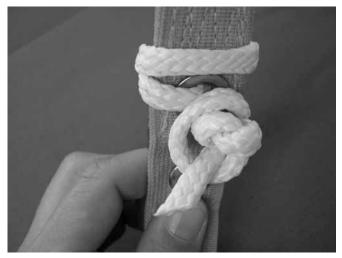




Cinch it against the toggle.



Tie another half-knot wrapping the line between the existing knot and the grommet.



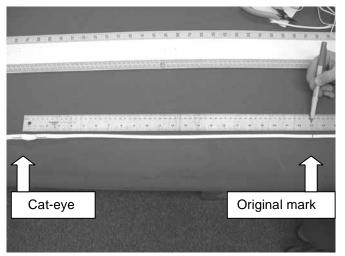
Cinch it down tightly against the toggle.





ALTERNATE METHOD

The factory toggle mark is located 23 inches from the top of the cat-eye.

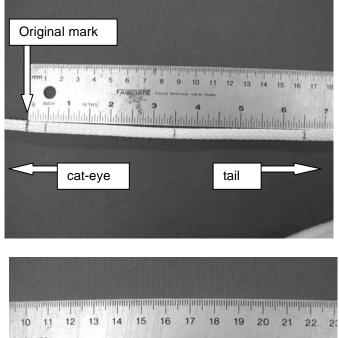


Working towards the cut tail, place a mark at each of the following locations:

- ½" from the original mark towards the tail
- 3 ½" from the original mark towards the tail
- 6 1/2" from the original mark towards the tail. This is the cut mark.

Use different color ink than the factory placed mark to help distinguish between the original and the newly placed marks.

At the $6\frac{1}{2}$ " mark, cut the line at an angle using scissors. Do not use a hot knife.

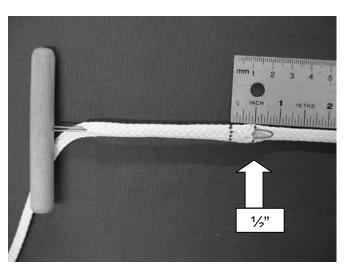




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Insert the finger-trapping tool into the line at a distance greater than the amount of line being finger-trapped. The finger trap tool shall emerge at the $\frac{1}{2}$ " mark drawn in step 2.

The line between the 3 $\frac{1}{2}$ " mark and the 6 $\frac{1}{2}$ " mark is the portion to be finger-trapped.



Insert the tail of the line thru the eyelet of the finger-trapping tool.



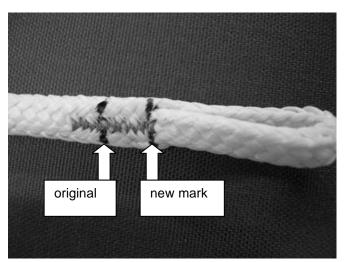
Pull the line thru until the $3\frac{1}{2}$ " mark and the $\frac{1}{2}$ " mark are in alignment.

Remove the fingertrap tool. Ensure the tail remains completely inside the line.

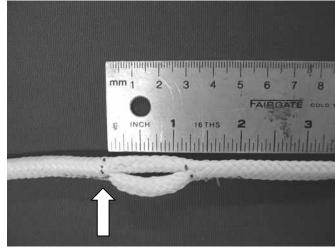




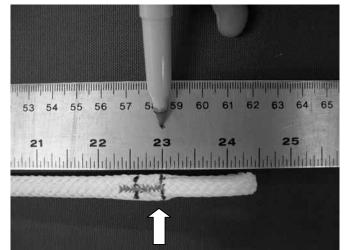
Place a bartack (or its equivalent) at the fingertrap insertion point to secure the fingertrap.



Double-check your measurements against the tape. The distance between the top of the categye...

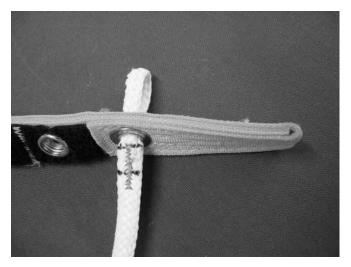


 \ldots and the start of the finished loop should be 23 inches.

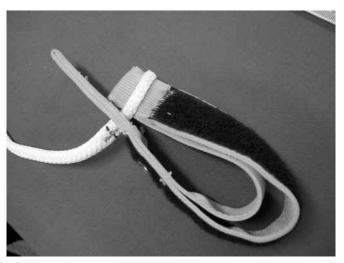




Push the finished loop through the back of the toggle.



Thread the toggle through the finished loop creating a lark's head knot. Do not thread the upper end of the toggle through the loop because this is not a secure method and may come off.



Pull the toggle completely through and tighten the knot around the toggle.





CLEANING THE PARACHUTE ASSEMBLY

CLEANING THE PARACHUTE ASSEMBLY

OVERVIEW

Washing a parachute is not recommended unless deemed absolutely necessary. Washing a parachute can weaken it by increasing the permeability of the fabric. Washing can also cause shrinkage in the nylon and possibly the cotton components (i.e., bridle attachment area). Do not dry clean parachutes. Parachute components may be spot cleaned or cleaned as a unit and care must be taken that the cleaning process does not do more damage than the original soiling.

This chapter also covers identification and removal of some types of contamination. Items such as acid, salt water, and petroleum products are covered.

HANDWASHING (IF ABSOLUTELY NECESSARY)

- 1. A mild soap or soap solution, and a water softener may be used.
- 2. Immerse the parachute into clean, fresh water contained in a smooth vessel, such as a bathtub.
- 3. Do NOT wring the parachute fabric. Damage to fabric permeability will result.
- 4. Gently move items by hand until all air pockets are removed. Agitate as little as possible or damage to fabric permeability will result.
- 5. Empty the vessel of dirty water and refill with fresh warm, clear water.
- 6. Rinse the parachute several times in warm, fresh water until rinse water is clear.

DRYING A PARACHUTE

The procedure for drying a parachute is as critical as the procedure for washing it. Asymmetric shrinkage may occur if the parachute is dried unevenly.

- 1. Remove pilot chute assembly and/or drogue/slider control line.
- 2. Hang parachute full-length or the seams may experience uneven shrinkage creating a turn in the parachute.
- 3. Hang reserve parachute assembly by all four connector links for the same time.

ACID CONTAMINATION

Nylon that has been contaminated by acid will have irregular shaped spots of gray or dead white color. The acid-contaminated fabric will also become powdery when scraped lightly.

Parachute components suspected of acid contamination may be tested with blue litmus paper. Dampen the suspect area with distilled water. Then lay the litmus paper on the area in question. If the paper turns pink, acid is present. Be careful not to touch the litmus paper. Touching the paper can cause an erroneous response.

If an area tests positive for acid, that area should be neutralized with a solution of distilled water and ammonia. Household ammonia will work. Ammonia will not damage nylon or hardware. The damaged area should be removed and the resulting hole should be patched.

REMOVAL OF SALT WATER CONTAMINATION

Crystals of dry salt and the presence of pale brown, circular stains often evidence salt-water exposure. If the parachute is allowed to dry after salt-water immersion without being rinsed in fresh water, salt crystals will form causing damage to the fabric and suspension lines.

1. Parachutes exposed to salt water should be rinsed out several times in warm, fresh water in a smooth tub. Use of a water softener is recommended. Hang assembly in drying tower in accordance with the section above entitled "Drying a Parachute."

The maximum complete salt-water immersion limits for the parachute are listed below. The parachute assembly should be cleaned within 8 hours of immersion.

Remove from service any parachute assembly or sub-assembly for any of the following conditions:

- 1. Immersion in salt water for more than 6 hours if the parachute contains cadmium-plated parts.
- 2. Immersion in salt water for more than 24 hours if the parachute contains stainless steel parts (i.e., slider stops).
- 3. Immersion in salt water and cannot be cleaned for 36 hours.

REMOVAL OF PERSPIRATION

Perspiration causes damage to the parachute much like salt water does. Clean the parachute in accordance with the "Removal of Salt Water Contamination" section above.

REMOVAL OF FRESH WATER

Dry parachute assembly in accordance with the section above entitled "Drying a Parachute."

REMOVAL OF MILDEW

- 1. Wash affected area with mild soap and water solution.
- 2. Rinse affected area thoroughly with fresh, clear water.
- 3. Hang assembly in drying tower in accordance with the section above entitled "Drying a Parachute."

REMOVAL OF FIREFIGHTING AGENTS

Parachute fabric and webbing exposed to light water, protein foam, PKP, and any combination of such shall be thoroughly washed within 30 hours after exposure. Hang assembly in drying tower in accordance with the section above entitled "Drying a Parachute."

Metallic parts or components so exposed shall be disassembled as far as practical, washed, dried, and examined. Metallic components treated in this manner may be returned to service if undamaged.

Remove from service any parachute assembly or sub-assembly for any of the following conditions:

1. Contamination by soda-acid firefighting agent. Hardware items may be returned to service after cleaning.



 Contamination by firefighting agents such as light water, protein foam, PKP or any combination of such, if not decontaminated within 30 hours. Hardware items may be returned to service after cleaning.

REMOVAL OF PETROLEUM PRODUCTS

Hydrocarbons usually do not harm nylon. Petroleum products such as oil or grease have a greenish or brownish appearance. Wash affected area by repeated applications of mild soap and water solution. Each application shall be followed by a rinse in clean, fresh water.

- 1. Continue washing and rinsing affected area until clean.
- 2. Hang assembly in drying tower in accordance with the section above entitled "Drying a Parachute."

REMOVAL OF BLOODSTAINS

- 1. Soak the stained area in cold water.
- 2. Hand wash affected area with mild soap and water solution.
- 3. Rinse affected area thoroughly with fresh clean water.
- 4. Hang assembly in drying tower in accordance with the section above entitled "Drying a Parachute."

REMOVAL OF SOIL

- 1. Hang the canopy and shake to remove most of the dirt and sand.
- 2. Brush lightly with a soft-bristled brush.
- 3. If the assembly is extremely contaminated, perform the following:
 - a. Wash only the soiled areas in warm water with a mild soap.
 - b. Rinse affected area thoroughly with fresh clean water.
- 4. Hang assembly in drying tower in accordance with the section above entitled "Drying a Parachute."



REPAIR LIMITATIONS

REPAIR LIMITATIONS

OVERVIEW

This section contains some limitations to adhere to when performing parachute repairs.

REPAIR QUALIFICATIONS

Minor Repairs - a senior rigger or country's equivalent may perform minor repairs.

Major Repairs - a master rigger or country's equivalent may perform major repairs.

Factory Repairs - these repairs may only be performed at the PD factory. These include all repairs that are not specifically listed as minor or major repairs.

PATCHES

Holes or snags smaller than the size of one ripstop box (1/8 inch, 3.2mm) may remain unrepaired as long as no more than one hole exists within any 10-inch (25.4cm) circle. A maximum of three such holes or snags per cell are allowed.

Ripstop tape is not authorized for use on Performance Designs reserve parachutes. If the damage is enough to warrant a repair, a sewn repair must be performed.

Darning is not a means of repairing Performance Designs parachutes.

Any hole or tear up to 10 inches (25.4 cm) in length may be repaired by a senior rigger as long as the closest area of the completed repair is at least 1 inch from the nearest seam and at least 5 inches from the nearest tape or line attachment. These are minor repairs.

LINES

Any line, tape, or webbing damage is a major repair.

A master rigger may replace lines. However, it is recommended that the factory do these repairs.

Master riggers may perform repairs that do not involve taking apart any bartacks on the canopy. Special bartack patterns are used that are not normally found in the field. In addition, removal and replacement of these stitch patterns usually weakens the fabric to the point that it is necessary to replace the portions of panels. The original templates are needed to complete this correctly.

GENERAL

Reserves may only be repaired using certified materials. All replacement materials must come from the Performance Designs factory. Under-strength thread and fabric is frequently found in the field. The only way to be sure the material meets Performance Designs standards is to obtain them directly from Performance Designs.



BASIC PATCH PROCEDURE

BASIC PATCH PROCEDURE

OVERVIEW

The Raghanti Basic Patch is recognized as the preferred patching method throughout the industry. The patching method does not require pins nor does it require a measuring square.

The Raghanti Basic Patch can be made in almost any size as long as it falls within the limitations for patch sizes (listed in "Limitations" section below). This chapter will focus on a 6-inch practice patch as the example. This size patch may be used to repair small damage to the parachute. "Small damage" would be approximately 2 square inches (5.08 sq cm) in size.

LIMITATIONS

A senior rigger (or country's equivalent) is qualified to repair any damage up to 10 inches (25.4 cm) in length as long as the closest area of the completed repair will be:

- At least 1 inch (2.54 cm) from the nearest seam, and
- At least 5 inches (12.7 cm) from the nearest tape or line attachment.

Small snags and holes smaller than 1/8-inch square (one ripstop box) located further than 10 inches (25.4 cm) from the closest line attachment may remain unrepaired as long as there are no more than one in any 10-inch (25.4 cm) diameter circle. A maximum of three such snags per cell are allowed.

Ripstop tape is not authorized for use on Performance Designs reserve parachutes. If the damage is enough to warrant a repair, a sewn repair must be performed.

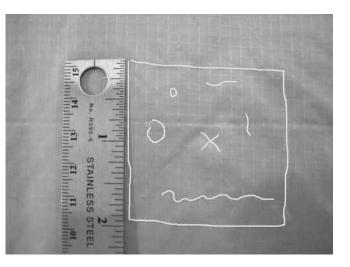
EQUIPMENT AND SUPPLIES NEEDED

- Marking pencil
- Single needle sewing machine with "E" thread
- Ruler
- 7-inch (17.8cm) square piece of fabric for the patch
- 13-inch (33 cm) fabric piece (on which to sew the practice patch)
- Hemostat
- Scissors
- Nippers

PROCEDURE

Locate the damage on the fabric (ex. circles and lines in the photograph). Once the damage has been identified, draw a box around it to define the damage area. The boundary for this particular area of damage is approximately a 2inch square.

Find the center of the damage and mark it with an "X".



Allow approximately $2\frac{1}{2}$ inches from each boundary side for repair work. This includes a $\frac{1}{2}$ -inch seam allowance.

Measure half the patch size (in this case, 3 inches) to the left of the damage center. Follow one rip stop line in the fabric as a guide.

At 3 inches out make a center and left border mark (resembling a "T" turned 90° counterclockwise). The center mark will be on the ripstop line (which was followed out 3 inches) and the left border mark will be perpendicular to the center mark, Go 3 inches up from the left center mark and place a top left corner mark.



Count down 10 ripstop boxes from the top border and make a mark. This is the starting point.

Count 14 rip stop boxes down on the 7-inch fabric (patch) piece and make a mark. This is the starting point.

Align the starting marks on both pieces of fabric.





5. Fold the patch material under four-ripstop boxes. Hold this 4-block seam allowance with the hemostats.



Disengage the puller if one exists on the sewing machine. This gives the person sewing more control over the fabric to prevent slippage and bunching.

Lower the foot and needle into the fabric. While using one hand to hold the two pieces of fabric taut in front, use your other hand to help feed the fabric thru the machine.



Sew to approximately 2 inches from the corner. Fold the 4-block seam allowance under for the second side creating a corner. Hold with the hemostats.





Make sure to set the hook in the stitch loop before lifting the foot to turn a corner. Sew to 1 block from the edge and turn the corner.



Sew the second side to 2 inches from the corner. Fold the 4-block seam allowance under for the third side creating a corner. Hold with the hemostats.

At this point make sure that the third and fourth sides will align properly before sewing.

Sew the third side, then the forth side as shown.

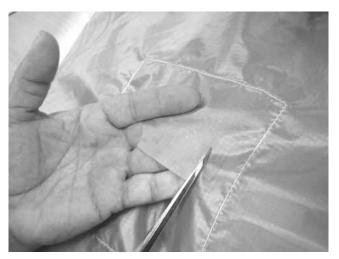


Perform a 4-6 inch oversew.





Using scissors cut the damage out along the ripstop lines 7 boxes in from the stitching holding the patch on. Placing the hand between the patch and parachute while trimming (like wearing a mitten) will prevent damaging the patch with the scissors.



Make a diagonal cut in each corner to 3 ripstop boxes from the corner.



Place the work under the sewing machine. Using the hemostats clamp 1 ripstop box in from the cut edge.





Place the parachute fabric behind the fold back of the patch forming a French fell seam. Do this in two places and seat the 1 box fold back against the patch stitch row with the tip of the hemostat. Sew around the parachute patch repeating this process on each side.



Take care that each corner is fully seated and square.

Use the side of the presser foot as a guide for stitching.



Inspect the work thoroughly.



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LINE REPLACEMENT

LINE REPLACEMENT

OVERVIEW

Damaged suspension lines shall not be repaired. A Master Rigger or his equivalent should replace the lines. Also, lines shall be replaced in pairs to minimize any asymmetrical line trim issues that may result from a single line replacement. Any line, tape, or webbing damage is classified as a major repair and therefore can only be performed by a Master Rigger or his equivalent.

REQUIRED EQUIPMENT AND MATERIALS

- Replacement lines from manufacturer
- V-T-295 size E nylon thread of the same color as used on the rest of the lines
- Bar tack or zig-zag machine
- Scissors
- Seam ripper
- Finger trapping needle

COMPLETE STEERING LINE REPLACEMENT

PROCEDURE

- 1. Remove the damaged steering line.
- 2. Starting with the outboard side, attach the new line to the parachute using the same knot as used on the other lines.
- 3. Bartack the fingertrap. Ensure the bartack originates at the fingertrap entry and extends toward the live side of the fingertrap.
- 4. Repeat steps 1 through 3 to attach all upper steering lines to the parachute.
- 5. Thread the lower steering line through the slider and steering line guide ring on the riser and tie to the steering toggle or loop.
- 6. Apply even tension and adjust all knots. Recheck all measurements.
- 7. Inspect the work thoroughly. Double check line lengths.
- 8. Perform a line continuity check.



LOWER STEERING LINE (LST) REPLACEMENT

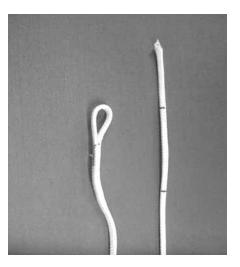
PROCEDURE

- 1. Remove the damaged lower steering line.
- 2. Place the new lower steering line through the lower loops of the upper steering lines.
- 3. Fingertrap the line back into itself, ensuring the marks on the line match up.
- 4. Bartack the fingertrap ensuring it originates at the fingertrap entry and extends toward the live side of the fingertrap.
- 5. Attach bottom end of the lower steering line to the rapide link in the same location as the damaged lower line.
- 6. Perform a continuity check.

SUSPENSION LINE REPLACEMENT

The line being replaced will either be an A/B line or a C/D line. These lines come from the factory as follows:

- The "A" portion of the A/B line and the "C" portion of the C/D line will have a prefabricated loop for parachute attachment. (see picture)
- The "B" portion of the A/B line and the "D" portion of the C/D line come straight line (without a loop) and cut at an angle for finger trapping.



PROCEDURE

- 1. Remove the damaged line.
- 2. Attach either the A or the C line (depending on which line is being replaced) to the parachute using a lark's head knot.
- 3. Attach either the B or the D line (depending on which line is being replaced) to the parachute by wrapping the line around the parachute attachment loop to resemble a lark's head knot.
- 4. Verify the finger-trap match marks are aligned. This ensures the line is at its proper length.
- 5. Fingertrap the line back into itself, ensuring the marks on the line match up.
- 6. Bartack the fingertrap. Ensuring it originates at the fingertrap entry and extends toward the live side of the fingertrap.
- 7. Perform a line continuity check.
- 8. Repeat steps 1 through 7 for the line opposite the damaged line to ensure symmetry and trim.



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SECTION 4: PACKING INFORMATION

REPACK CYCLE

Currently, up to one-year repack cycles are authorized for Performance Designs reserve canopies when cared for properly. Proper care includes keeping the entire system clean, dry, limited exposure to UV light, not overheating, and no exposure to degrading elements. Performance Designs reserves the right to extend or reduce repack intervals based on continued research and field experience. You must use the shortest repack cycle specified by your country's applicable legal requirements, harness/container manufacturer's requirements, and AAD manufacturer's requirements. Your new Performance Designs reserve canopy must be assembled inspected and packed into your parachute system by a certificated rigger. Even if you live in a country where it is legal for you to assemble and maintain your reserve, you should let an experienced and appropriately rated person that is familiar with this reserve, your harness/container and all other components of the parachute system perform the assembly and repack.



FLAT PACKING INSTRUCTIONS FOR THE TR-375 RESERVE

FLAT PACKING INSTRUCTIONS FOR TR-375 RESERVE

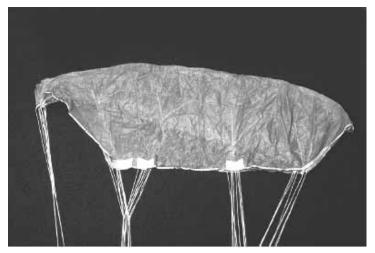
OVERVIEW

If the rig manufacturer specifies a packing method other than the ones shown, and the rig manufacturer authorizes its use for this specific parachute, you may decide which instructions to follow. Otherwise you must follow the Performance Designs instructions. It is recommended that you follow the instructions for the packing method with which you are most familiar.

Inspect the parachute thoroughly before starting to pack it, following the inspection instructions described in Maintenance and Repair Section of this manual. Check the line continuity, and ensure the parachute has been assembled on the rig correctly.

FLAT PACKING THE RESERVE PARACHUTE

Flake out the parachute until all T-seams (where non-loaded ribs meet the top skin) are straight from leading edge to trailing edge.



Be sure the parachute is flaked and straight. Grasp the T seams at the leading edge in your left hand. Grasp the T seams directly above the A lines with your right hand. Pull tension against the rig to be sure the A lines are straight, and then fold the leading edge back under the parachute so the A-line path is on the far left as you look from parachute top towards rig.





Hold down the parachute at the A-line path. Grasp the T seams directly above the B-line path and fold to the left placing the B lines on top of the A lines.





The material between the A and B lines should now create the fold to the right of the A and B lines.

Hold down the parachute at the B-line path. Grasp the T seams directly above the C-line path. Fold the C lines to the left, past the B-line path as far as possible, and then bring them back. Lay the C-lines on top of the B lines. This results in the parachute fabric between the B and C lines being folded on the left side of the parachute and the C lines are directly on top of the B lines. Straighten this fold as necessary.





Clear the stabilizers while ensuring tension on the line groups.



SECTION: PACKING



Hold down the parachute at the C-line path. Grab the T seams directly above the D-line path. Fold to the left placing the D lines on top of the C-line path. The material between the C and D lines should be folded to the right of the lines.

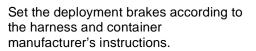


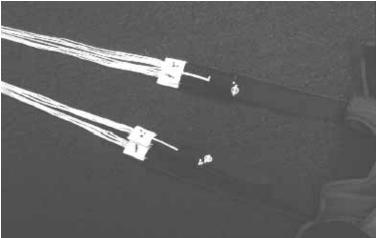
Hold down the parachute at the D-line path. Grasp the tail with your right hand. Fold the steering lines to the left, past the D-line path, and then back. This results in the parachute fabric between the D and steering lines being folded on the left side of the parachute and the steering lines are directly on top of the D lines. Make the second half of this fold on an angle so that there is enough slack in the steering lines to set the brakes. The D lines should stay taut.



Straighten this fold as necessary after setting the brakes. Be sure none of the lines are wrapped around a slider stop.







Split the tail so there are five folds on each side from the bottom up. Lay the center cell of tail on top. It should be spread out to the same width as the rest of the folded parachute.



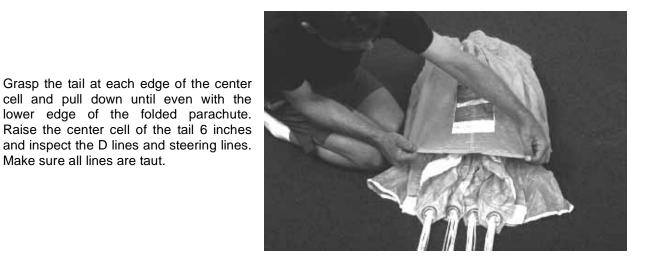


Clear the stabilizers A to B, B to C, and C to D so that they are on each side of the line path and do not cross the center. Look up the lines to all the line attachment points. All lines should go up to the attachment points with no parachute fabric between them.



Pull up the slider by grabbing the tapes around its center and walking from the connector links to the base of the folded parachute.







Make sure all lines are taut.

Dress the center of the tail by spreading out the top center panel to the width of the rest of the parachute underneath.



Tuck the center tail panel around the parachute, working from bottom to top and making sure not to cover the leading edge.



Kneeling on the lower tail, pull the top of the folded reserve up onto your lap. Make sure the seven leading edge openings are exposed and that the tail is not wrapped in front of the openings. Lay the parachute back down and redress in preparation for inserting it into the free bag.





FOLDING THE PARACHUTE TO PUT INTO THE FREE BAG

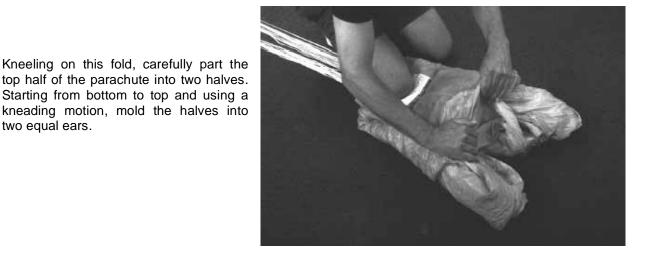
There are several different types of bags used by various harness and container manufacturers. Performance Designs, Inc. recommends three different folding techniques to prepare the parachute for placement into these bags.

If the harness and container manufacturer specifies a different method of dressing the reserve parachute before it is placed into the bag, then follow their instructions. However, you must make sure that the manufacturer's instructions are correct for this parachute.

FOR ONE AND TWO PIN CONTAINERS WITH CLOSING LOOPS ON A VERTICAL CENTER LINE OF THE CONTAINER:



Fold the bottom of the folded reserve back and on top of itself making approximately a 6-inch S-fold.



two equal ears.

In the case of a two-pin centerline configuration, a dimple should also be made between the left and right line groups below the slider.



Follow the harness and container manufacturer's instructions for putting the parachute into the bag and completing the pack job.

FOR ONE AND TWO-PIN CONTAINERS THAT REQUIRE S-FOLDING THE PARACHUTE INTO THE BAG:

Starting at the bottom of the parachute and working toward the top using a kneading motion, fold the parachute into a tight narrow roll.





Redress the tail around so that the data panel is on top and the parachute is the width of the data panel. Be sure not to cover the seven leading edge openings by repeating step 14 above. Put the parachute into the bag on its side.





Follow the harness and container manufacturer's instructions for putting the parachute into the bag and completing the pack job.

FOR TWO-PIN CONTAINERS WITH THE CLOSING LOOPS SIDE BY SIDE:

Fold the bottom of the reserve parachute back onto itself. This will make an approximate 6-inch fold.







Make a second S-fold on top of the previous fold.

Kneeling on this fold and using a choking motion, make a side-to-side dimple in the parachute so that the proper amount of bulk is above and below the dimples. Performance Designs, Inc. does not recommend the use of a strap to aid in this step. However, if you must use a strap, be extra sure to remove the strap before closing the bag.



Follow the harness and container manufacturer's instructions for putting the parachute into the bag and completing the pack job.



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PRO PACKING INSTRUCTIONS FOR THE TR-375 RESERVE

PRO PACKING INSTRUCTIONS FOR TR-375 RESERVE PARACHUTE

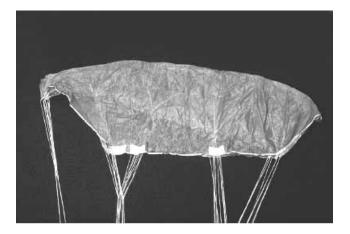
OVERVIEW

If the rig manufacturer specifies a packing method other than the ones shown, and the rig manufacturer authorizes its use for this specific parachute, you may decide which instructions to follow. Otherwise you must follow the Performance Designs instructions. It is recommended that you follow the instructions for the packing method with which you are most familiar.

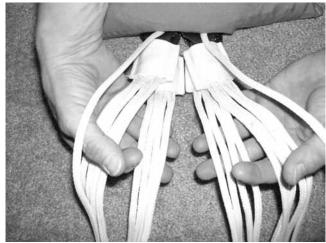
Inspect the parachute thoroughly before starting to pack it, following the inspection instructions described in Maintenance and Repair Section of this manual. Check the line continuity, and ensure the parachute has been assembled on the rig correctly.

PACKING INSTRUCTIONS

Flake the parachute out on its side until all the Tseams are aligned from leading edge to trailing edge. Set the brakes according to the rig manufacturer's instructions.



Crouch next to the risers and face the parachute. Be sure there are no twists in the risers. Slip the fingers of your left hand between each left hand riser and between the left hand steering line and the risers. Do the same with your right hand.





Move up the lines, allowing them to slide between your fingers. Lift the parachute off the ground ensuring lines are not twisted and parachute is facing the correct direction.



Starting with the end cell nearest your legs, flake the nose. Once the entire nose is flaked, tuck it between your knees and hold it there.

Clear the stabilizers. Flake the material between each line group out toward the stabilizers, keeping the line groups stacked together in the middle of the pack job. Clear the tail, flaking the material between each steering line toward the outside of the pack job.

Hold the parachute parallel to the floor with the nose facing down. Continue to hold the lines in one hand while using your free arm to support the parachute fabric. While maintaining even tension on the lines, gently place the parachute back down on the floor or packing table with the nose facing down.





Starting on the right side of the parachute, carefully lift the folds of material back towards the center of the pack job until the nose is exposed. Clear the three cells to the right of the center cell and flake this section of the nose toward the outside of the pack job.



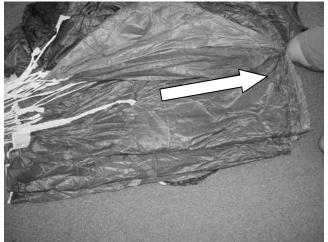
Flake the material between the A and B lines away from the line channel in the center of the pack job. Be sure all three T seams to the right of the center cell are neatly flaked.

Find all bottom seams to the right of the center cell and flake them out toward the stabilizer. Be sure the right side B lines are grouped together and stacked neatly on top of the A lines. Smooth out the fold between the A and B lines.



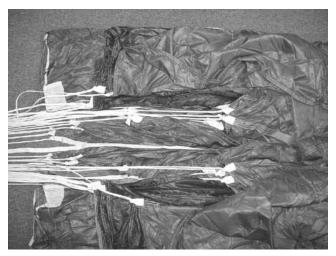
Flake the material between the B and C lines away from the line channel in the center of the pack job. Make sure the C lines are grouped together and stacked neatly on top of the A and B lines. It is important to keep even tension (in the direction of the arrow) on all the line groups throughout the remainder of the pack job. Pulling on the T seams directly above the line attachment points will help keep the lines straight and maintain the folds in the material.

Repeat the previous steps to flake the material between the C and D lines on the right side.

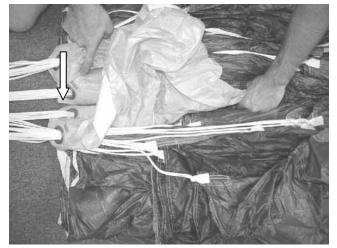




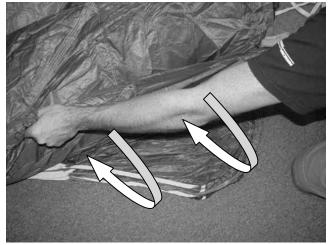
Repeat the previous steps to flake and clear the left side of the parachute. Make sure the line channel in the center of the pack job is clear.



Make sure the slider grommets are seated against the slider stops sewn into the stabilizers. Ensure the fabric of the slider is pulled upwards into the air channel, and the slider is quartered.



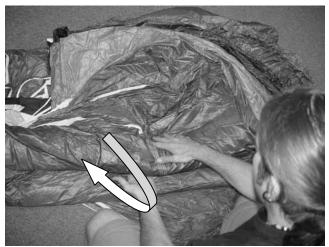
Going back to the flaked material, fold the material between the A and B lines in half (folding underneath towards the center of the pack job). Do not go beyond the line attachment points. This step is called a reduction and decreases the width of the parachute pack to better fit the bag.





Repeat the previous steps to create reduction folds between the B and C lines and again between the C and D lines.

Repeat reduction folds for the other side of the parachute starting with the A and B, continuing through all reduction folds as described above.



Flake the material between the upper control lines toward the outside of the pack job, leaving the control lines stacked neatly on top of the A, B, C, and D lines.

Repeat for the other side.



Fold the flaked tail section of the canopy under to achieve the same width as the rest of the canopy. Use the center cell material to cocoon around the tail section. The flaked tail section folds and center cell material are folded around the B to D material and tucked in behind the A to B material.



View of parachute after tail and all flaked material has been folded.



Kneeling on the lower tail, pull the top of the folded reserve up onto your lap. Distribute the seven leading edge openings evenly across the pack job. Ensure the nose is exposed and that the tail is not wrapped in front of the openings.



Lay the parachute back down and redress in preparation for inserting it into the free bag.

Place the parachute into the freebag.

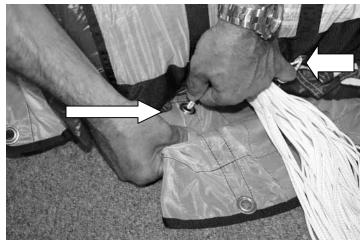




Fold top flap over the canopy so the safety stow at the edge of the top flap (see photo) aligns with the grommets closest to the canopy with the bottom flap.



Holding one end of the safety stow with your little finger (see arrow in photograph), pass the other end through the grommet of the bottom flap ...









...and pass the loop through the respective grommet on the side flap.

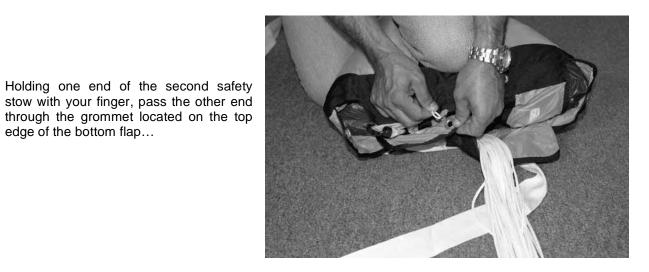
Temporarily secure the locking stow using the freebag bridle.





Repeat for the opposite side.







...and pass the loop through the respective grommet on the side flap.

Secure the second locking stow with the first line bight.





Repeat for the other side.





Turn the bag towards you.

Remove the bridle from the locking stow and replace it with the third line bight. Ensure you follow an S-fold pattern while stowing line bights.



Repeat for the last safety stow



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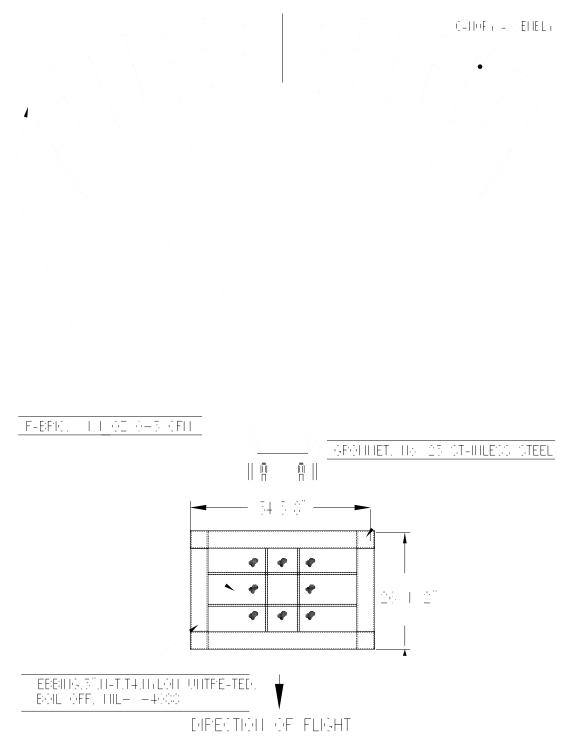
SECTION 5: DRAWINGS

TR-375 WARNING LABEL

L	
THIS IS A HIGH PERFORMANCE PARACHUTE, EVEN NORMAL US RESULT IN SERIOUS INJURY OR DEATH, TRAINING, PROFICIEN SKILL ARE REQUIRED TO LOWER THE RISK, READ AND COMPL ALL MANUFACTURER'S MANUALS, RECOMMENDATIONS, PROCE	
PLACARDS AND LIMITATIONS. PARACHUTE SYSTEMS SOMETIMES FAIL TO OPERATE CORRECTL WHEN PROPERLY MANUFACTURED, ASSEMBLED, PACKED AND OPE YOU' RISK SERIOUS INJURY AND DEATH EACH TIME YOU USE THIS S	RATED.
TRAINING AND PROFICIENCY REQUIREMENTS:	
DO NOT USE THIS PARACHUTE SYSTEM UNLESS YOU HAVE: A. RECEIVED INSTRUCTION IN THE USE OF THIS SPECIFIC PARAC SYSTEM AND OPERATE IT WITHIN THE STUDENT OR NO LIMITATIONS LISTED BELOW: -OR-	
B. PERFORMED AT LEAST 50 RAM AIR PARACHUTE JUMPS AN LEAST 10 SOFT STAND UP LANDINGS, WITHIN THE TARGET USING A CANOPY NO MORE THAN 15% LARGER THAN THIS -OR-	AREA, Size.
C. EXPERIENCE WITH THIS EQUIPMENT AND ARE HIGHLY FAM AND PROFICIENT WITH THE OPERATION, FLIGHT AND LAN CHARACTERISTICS OF THIS MODEL/SIZE PARACHUTE AND SYS	IDING
SKILL AND OPERATING LIMITS (STD. DAY TEMP. AT SEA LEVEN	
WEIGHTS LISTED ARE (jumper + clothing + equipment) LBS (K MIN. WT. STUDENT* NOVICE* INT.* ADV.* EXPERT* MA VLC** 281 (128)319 (145375 (170)00 (182)25 (193)42	X. WT.
MAXIMUM DEPLOYMENT SPEED 170 KTS EAS @ SEA LEVE	
* MAXIMUM WEIGHT, TO REDUCE RISKS STAY WELL BELOW THIS WE -WEIGHT ADJUSTMENTS FOR LANDING CONDITIONS:	
REDUCE ALL WEIGHTS BY 2 % PER 1000 FT (300m) LANDING ELEVA REDUCE ALL WEIGHTS BY AN ADDITIONAL 1% FOR EVERY 3° C	TION.
ABOVE STD. DAY TEMP., WHICH IS 15°C (59°F) AT SEA LEVE	EL. 🔨
STD DAY TEMP. DECREASES 2°C (3.5°F) PER 1000 FT (30 FOR EACH 1000 FT ABOVE SEA LEVEL.	
-OPENING FORCES INCREASE WITH ALTITUDE, REDUCE MAXIMUM WI AND/OR MAXIMUM AIRSPEED (EAS) FOR DEPLOYMENT ALTIT	
**VARIES WITH WEATHER/LANDING CONDITIONS -F.A.A APPROVED TSO-C23d, AS8015-B 4.3.4 AVG FORCE: 60	
-J.A.A APPROVED JTSO-C23d, AS8015-B 4.3.4 AVG FORCE: 6 "-NOT APPROVED FOR TANDEM USE	
OPERATING LIMITATIONS FOR MILITARY AND FOREST SERVICE	USE ONLY
MAXIMUM DEPLOYMENT WEIGHT = 425 LBS (193 KGS) MAXIMUM LANDING WEIGHT = 425 LBS (193 KGS)	
DATE OF MANUFACTURE DOM_TXT	
PN: PN_TXT INSP:	
Performance 1300 E. Int'l Speedway	Blvd
	72 (22) 7
Designs Inc. (386) 738-2224, FAX (386) www.performancedesign	ns.com
US PATENTS #4,930,727, #5,197,696, #5,573,20 REMOVAL OF THIS LABEL VOIDS ALL WARRANTIES AND TH	7
CANOPY HISTORY LOG EACH TIME THIS CANOPY IS PACKED BUT HAS NOT BEEN JUMPED,	MARKA
DIAGONAL BAR IN THE NEXT EMPTY BOX	
EACH TIME THIS CANOPY IS PACKED AFTER IT HAS BEEN JUMPED, "X" IN THE NEXT EMPTY BOX	
THIS CANOPY MUST RECEIVE A FABRIC PERMEABILITY TEST WITHIN JUMPS AND 40 PACKS. DO NOT REPACK UNLESS THESE REQUIREMENTS A	EACH 25 RE MET.
TF-STS	
TF-STS TFSTS+OUT FE	

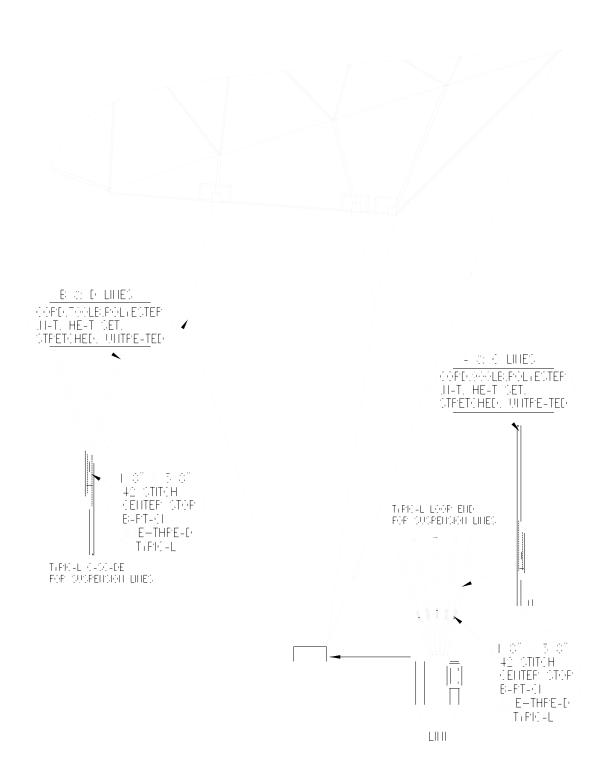


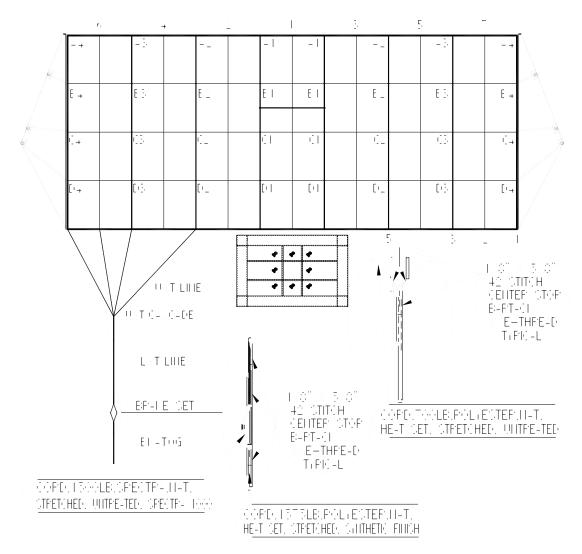
TR-375 FLYING FRONT VIEW











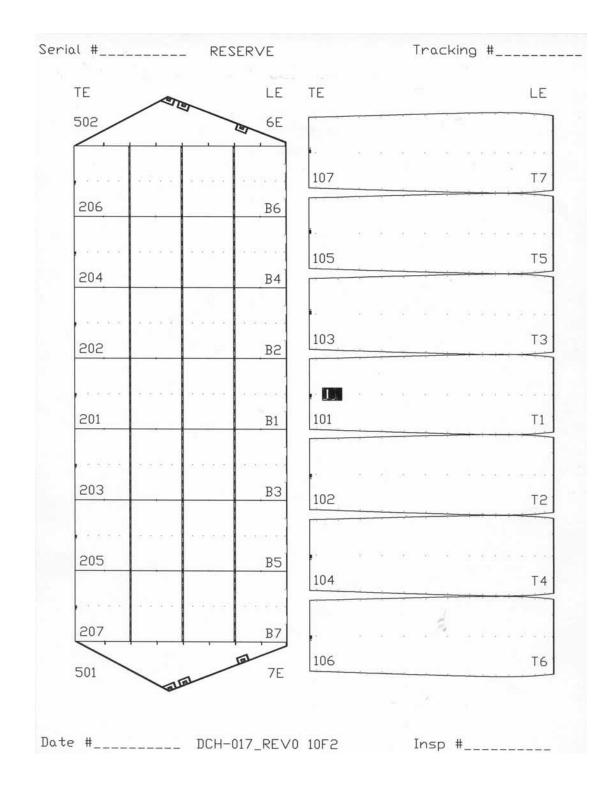
TR-375 PLANFORM

LINE LENGTHD FOR FOURTIENT INCREDIENT

<u>evvi nen nor</u>	<u>Lanan -</u>				
4 LIHE	180-1/2*	± 1 ⁰	⇒ TΩ E	4.374°	± 1/2"
		± 1/2°	- A TO €	17.1/4*	± 1/2"
ERALE TO TOBGLE	29.1/8*	÷ L/2	- 4 ΤΟ Ε	30.7781	± 1/2"
SEATI TO SEATI TOF SENT#	47 1/61 TO 48 1/61		A TO UST	17.1/2°	± 1/2*
ETTO CI	35° TO	36 3/8"			



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TR-375 DAMAGE CHART (FIRST OF 2 PAGES)

TR-375 DAMAGE CHART (SECOND OF 2 PAGES)

