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CIVILIAN MODEL



MAINTENANCE MANUAL # 3

User Guide
CMM 80021365-HO Revision: 3



SLIMFIT Mk-5 PN: 80021365

EMERGENCY PARACHUTE

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RECORD OF CHANGES

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		By	Date	By	Date	By	Date
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THE SLIMFIT EMERGENCY PARACHUTE SYSTEM

IS PROUDLY

MANUFACTURED IN DENMARK



1. DISCLAIMER – NO WARRANTY

Due to the unavoidable danger associated with the use of a parachute system, neither the manufacturer of the canopy nor the manufacturer and/or seller of the harness/container assy makes any warranty, neither expressed or implied.

Parachuting is associated with great risks and can lead to serious bodily injury or death.

We cannot advise using the Slimfit parachutes, unless the user agrees to assume the risks associated with it and have the appropriate and required training and insight into the use of parachute equipment.

Parachutes can sometimes operate inadvertently, even though they are designed, manufactured, assembled, packed, maintained and used in accordance with all regulations. Malfunctions can result in disability or death.

Because of the risks associated with the use of parachutes, neither Free Flight Inc, Cahoma Aps nor Lite-Flite Aps assumes no liability and makes no warranty, either expressed or implied.

Free Flight Inc, Cahoma Aps and Lite-Flite Aps disclaims any liability in tort for damages, direct or consequential, including personal injuries, resulting from malfunction or from defects in design, manufacturing, materials or workmanship caused by the use of parachute equipment and does not provide any form of compensation.

The liability of Cahoma and Lite Flite is limited to replacement of defective parts found upon examination by manufacturer to be defective in material or workmanship within 30 days after its purchase from factory, and which has not been caused by accident, striking, improper use, alteration, tampering, excessive use, misuse, abuse or otherwise.

2. SPECIFICATIONS

FFE 201 D Preserve 1 is a round conical, 0-porosity (Permeability) steerable canopy

Canopy approved under TSO c23b & N.A.S. 804

Maximum assembly deployment speed: 150 knots.

Maximum assembly gross weight (Pilot + clothing + equipment): 242 lbs = 113 kg

Sink rate with pilot weight of 105 kg is approximately 5,5 m/sec.

0-porosity (Permeability), 22 gores, Flying diameter 19,3 ft, 420 sq.ft.

3. LIFE LIMITS

Life time of Free Flight manufactured parachute canopies expires after 20 years from date of manufacture, provided the assembly passes the periodic inspections as described in section 5.

FFE PRESERVE I CANOPY MODEL 201 (-C)

4. CANOPY INSPECTION

Inspections to be done by a licensed parachute rigger or master rigger only.
Ensure that the canopy is assembled properly according to Cahoma/Lite Flite manual.
Check that the connector links are properly tightened. Never over tightened.
Ensure that steering toggles are installed on steering lines routed through guide rings.
Check for any damage to canopy material or suspension lines.
Canopy and harness/container material is sensible to acid and UV-rays.
Check for any stains or possible soiling by chemicals.
Determine that there are no foreign objects inside the canopy or entangled with lines.
If the assembly fails inspection, it must be removed from service and repaired as described in section 6, or scrapped.

5. REPAIRS

No major repairs or any alterations are authorized.
If repairs are required, the parachute must be returned to Cahoma/Lite Flite.
Cahoma/Lite Flite will determine further action.

6. ACTUAL USE

After leaving the aircraft, pull the blank opening handle positioned on the shoulder strap at the left side of the chest.
The canopy is steerable.
By pulling left or right red steering toggles on risers the canopy can be turned into the wind to optimize the safest possible landing.
Larger steering effect may be accomplished by pulling the right or left rear riser.

To minimize landing injuries:

- land into the wind
- keep your feet together
- protect your face
- keep your elbows together in front of your chest.

7. PACKING

It is mandatory that the pilot chute bridle is installed through both positioning loops on 2 apex vent lines and around all the other vent lines.

The bridle must have a stitching through the loop to prevent it from tightening around the vent lines during the opening sequence.



Place the canopy on the packing table and connect tension devices at both container and apex ends.

Flake the canopy. 11 gores to each side.

Dan Poynters Parachute Manual describes the procedure

Diaper must be underneath the canopy.

Check each gore on each side.
Ensure that no fabric is wrapped into the next gore.

Check the skirt band and apex band to be straight.

Align the skirt band and up fold 90° parallel to the centre main seams.



Fold the canopy gores length wise in thirds over the centre main seams



Fold it once more over the main seams
(In Fifths)

Place weight bags over the canopy to keep it
in order during further packing.

Replace all damaged, loose or worn out rub-
ber bands on diaper.

Ensure right size rubber bands. 7 x 40 mm.
P/N: 2

0120022



Release tension and pull container towards the canopy putting lines on top of the folded canopy

RIGHT 



WRONG 

Lines must **NOT** be hidden in the canopy fabric



Close the diaper starting with the top rubber band through the top grommet. Form a loop of suspension lines. No more than 4 cm.



Continue with centre rubber band through the centre grommet.

Close with a 4 cm line loop



Bring the lower rubber band through the bottom flap grommet -



and continue through the lower side flap grommet.

Close by using a line loop of no more than 4 cm.



Finish stowing of the remaining suspension lines lengthwise using line loops of no more than 4 cm.

Leave approximately 1,5 m to be stowed in Rubber bands inside the container.



Complete the packing according to the following instructions for **SLIMFIT** packing.

With a fixed wrench size 9 check that connector links are tightened.

Never over tightened.



Check that toggles are in correct place on the Velcro.



Insert pull-up cords into 2 closing loops of 4 to 4,5 cm length

Both closing loops to go over the ends of both ripcord pins under the back pad.



Route pull up cords into each their grommet

Pull up cords now appears inside the container



Keep the loops in place in the container by knotting the pull up cords together.



PACKING WITH SOFT TOP

Place risers inside container and start stowing suspension lines in lower outer rubberband in each side



Continue to stowe lines in top rubber bands and last bottom rubber bands



The diaper with the lines to be stowed in a bottom corner of the container, ensuring that it fills in both corners completely.

Make sure there is no sloppy bottom corners.

Canopy to be placed close to the red cover flaps.



Fold the canopy fabric around the red flaps to lean against diaper in the left side



Continue to fold the canopy fabric back to the right side



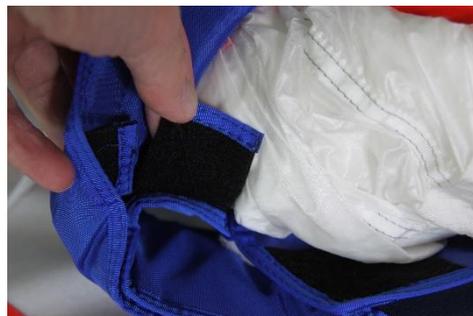
Fold the remaining part of the canopy to the left side so the apex lines are leaning against the diaper.

Feed the pull-up cords through the grommets in top and bottom cover flaps. Make sure the red flaps are covering the lines and the canopy fabric

Pull the loops through the grommets and secure with temporary pins.



Pull free the small Velcro-loop flap in both top corners



Once again fold the top part of canopy

Ease the side Velcro closure in place. Be careful not to damage the canopy fabric. Close the side cover Velcro to the top cover Velcro in both sides.



Compress the pilot chute sitting on the Retaining tool



Make sure that mesh and fabric is stowed in between the spring windings to prevent locking.



Compress the pilot chute completely.



Secure compressed pilot chute with temporary closing pin.



S-Fold bridle cord between the pull up cords.



Place the pilot chute so the closing pin can only be removed to the right side of the container where the spring cover flap is situated.

Pull up the closing loops through the pilot chute grommets

Pull the red inner flaps to the sides to cover the canopy fabric.

Close the left side cover.
Pull up the closing loops and secure with temporary pins.

Remove the closing pin and retainer wrap from pilot chute



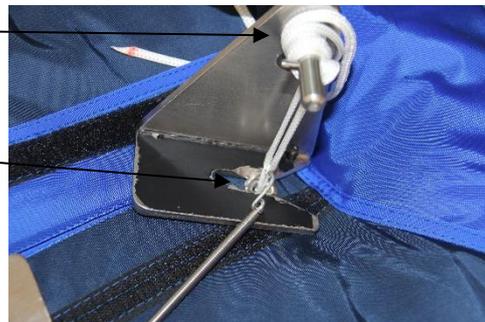
Close the right side cover.
Pull up the closing loops and secure with temporary pins.



CLOSING WITH S-HOOK SPRING

Pull Up winding tool

Insert S-hook in loop



Carefully remove the pull up cord and put it around the second S-hook.



Pull up the second closing loop so the opening is well proud of the grommet.

Pull S-hook towards the loop and ease it gentle into place in the loop opening.



Carefully and gently ease the second S-hook through the loop opening



Slowly and carefully remove both pull up cords from the loops.



Close the velcro cover over the spring.



Dress the parachute with the dressing tool.



Flip over the container. Check that both
ripcord pins are correctly in place.
Loops must be at the middle of the pin.

Seal as applicable.

Sign parachute log card and place in pocket.



Place the back pad on Velcro stripes.

Your parachute is ready



Count your packing tools.



AFTER PACKING, REMEMBER YOUR PAPERWORK !

PACKING WITH FIRM TOP

Place risers correct inside container and stow suspension lines in rubber bands like mentioned under "PACKING WITH SOFT TOP".

Close Velcro for riser covers as far as possible

Place diaper in top of the container



Turn the container 180° underneath the canopy

Place canopy fabric against the red inner flaps



Fold the canopy around the red flaps against the diaper in right side



Continue folding the canopy around the centre back to the left side



Last portion of canopy is folded so the apex lines come close against the diaper in right side



Lift up the bottom cover and place the canopy fabric inside



Make sure that canopy fabric fills out both bottom corners



Open and pull up Red centre cover flaps



Route both pull up cords throug grommets in top and bottom covers

Make sure that the red flaps are in place to protect suspension lines and canopy fabric



Close covers with temporary pins



Pull free the little Velcro-loop flap in both sides

Make sure that no Velcro-hook parts are damaging neither suspension lines nor canopy fabric



Close top cover corner with side cover corners in each side

Make sure that velcro connection is covering each other



Check that both bottom corners are filled out with canopy fabric

Pull out the red r flaps to cover the canopy fabric



Compress the pilot chute and secure in wrap.
S-fold bridle cord and place between pull up cords

Pull the red inner flaps to the sides to cover the canopy fabric.



Place the pilot chute on top of bridle cord

Make sure the closing pin on the pilot chute is situated to be released to the left side only (S-hook cover flap side)

Route pull up cords through pilot chute grommets



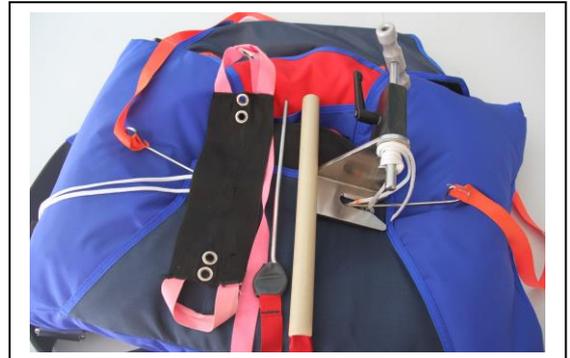
Close right side cover

Route pull up cords through grommets

Pull up loops and close with temporary pins



Release pilot chute closing pin and wrap



Remove both parts



Close left side cover
Route both pull up cords through the grommets

Pull up the loop in firm top of container
Remove the temporary pin



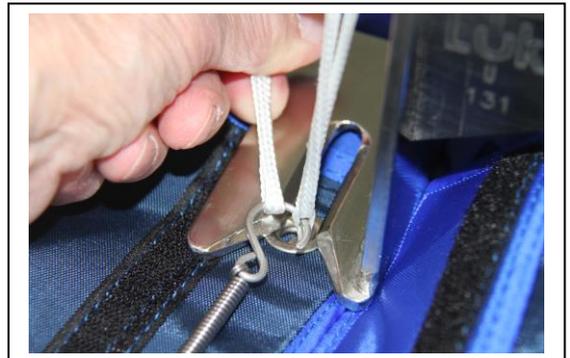
Insert one S-hook into the loop



Carefully and slowly remove the pull up cord
Put it around the other S-hook



Pull up the loop
Pull the second S-hook towards the loop
Carefully insert the S-hook into the loop



Slowly and carefully remove the pull up cord



Dress the container with the dressing tool



Flip over the container. Check that both ripcord pins are correctly in place. Loop must be at the middle of the pin.

Seal as applicable.

Sign log card and place in pocket



Close back pad on velcro stripes

Your parachute is ready



Count your packing tools





PERSONAL NOTES:

8. PACKING TOOLS:

60030030 Dan Poynter: The Parachute Manual
20153080 Pull up cords, 3mm, 85 cm, 2 ea
20150145 Shot bag (Packing weight)
20150150 Temporary closing pins, 2 ea in colored bridle
20150135 Pilot Chute retainer wrap with flagged closing pin
20150180 Dressing tool
20150160 PS retaining pull up tool

9. ACCESSORIES

90011605 Connector links # 5 Stainless Steel
20090080 Toggles, set of 2
80023112 Closing loop, 3 - 5 cm – define desired length
20120022 Rubber bands, ¼ kg, 7 x 40 mm
20050380 Pilot chute for Slimfit with top grommets
20070203 Pilot chute bridle cord
20101490 Ripcord, 2 pin
80023108 Opening spring with 2 S-hooks
80022510 Back pad, semi sheep, to be ordered with container
80022520 Back pad, nylon duck, to be ordered with container
60030211 Packing Instructions, MK-5, GB (This manual)
60031020 Parachute record log card
80022102 Transport bag



HAPPY FLYING WITH SLIMFIT MK-3, MK-4 and MK-5