

ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE

DESCRIPTION AND PRINCIPLES OF OPERATION

NB-7 PERSONNEL PARACHUTE ASSEMBLY

PART NO. 566AS100-11 and 566AS100-14

List of Effective Work Package Pages

<u>Page No.</u>	<u>Chg. No.</u>						
1 thru 2	1	3 thru 6	0				

Reference Material

Illustrated Parts Breakdown WP 012 04

Alphabetical Index

<u>Title</u>	<u>Page</u>
Configurations	2
Description	2
General	2
Principles of Operation	2
Manual Operation	2
Repack Schedule	2
Subassembly Configurations	2

Record of Applicable Technical Directives

None

1. DESCRIPTION.

2. **GENERAL.** The NB-7 Personnel Parachute Assembly is a back-type parachute consisting of a multicolored (white, olive green, international orange, and sand shade), 28 ft. diameter, flat, circular, nylon canopy with 28 gores used with a PCU-33/P or PCU-56/P parachute restraint harness. Water deflation pockets are provided on alternating gores. The canopy is packed in a container assembly (Figure 1) and secured to the aircrewmember's back by means of a PCU-33/P or PCU-56/P parachute restraint harness.

3. The parachute assembly is mated to a seat survival kit by a slide fastener and then installed in the aircraft seat. The harness incorporates the parachute restraint harness and provides attachment points for the parachute assembly and survival kit. When aboard the aircraft and seated, the aircrewmember connects the canopy release fittings on the parachute risers to the canopy release adapters on the harness.

4. **CONFIGURATIONS.** Two different configurations for the NB-7 parachute assembly may be used in-service. The difference is the addition or absence of the parachute harness sensing release unit. Refer to the Illustrated Parts Breakdown WP 012 04 for exact configuration requirements.

5. **SUBASSEMBLY CONFIGURATIONS.** The subassemblies listed below make up the various configurations of the NB-7 parachute assembly and are shown in (Figure 2). Refer to WP 012 04 for detailed information on subassemblies.

Pilot Parachute Assembly

Pilot Parachute Connector Strap

Canopy Assembly

Cross-Connector Straps

Ripcord

Risers

Back Pad

Container Assembly

Parachute Harness Sensing Release Units

6. PRINCIPLES OF OPERATION.

7. **MANUAL OPERATION.** After emergency bailout, the following operations take place:

a. Manually pulling the ripcord grip removes the ripcord pins from the container locking cones, permitting the grommets and locking cones to separate.

b. The container spring opening assemblies pull the side flaps apart allowing the pilot parachute to spring from the container and inflate.

c. The aircrewmember's falling away from the inflated pilot parachute causes the canopy to be extracted from the container followed by the suspension lines. The canopy begins to inflate during this operation.

d. The riser fasteners disengage from the container fasteners as load is applied. The risers are then pulled from the container, and the canopy inflates. This permits the aircrewmember to descend suspended in the harness.

e. By manually actuating the four-line release system, the aircrewmember may reduce oscillation during descent and maneuver the parachute to a less hazardous landing site.

f. Upon landing, the aircrewmember releases the canopy by actuation of the canopy release fittings.

g. The parachute harness sensing release unit provides an automatic backup method of releasing the risers after the crewmember makes a seawater entry.

8. REPACK SCHEDULE.

a. Scheduled repack cycle is 672 days.

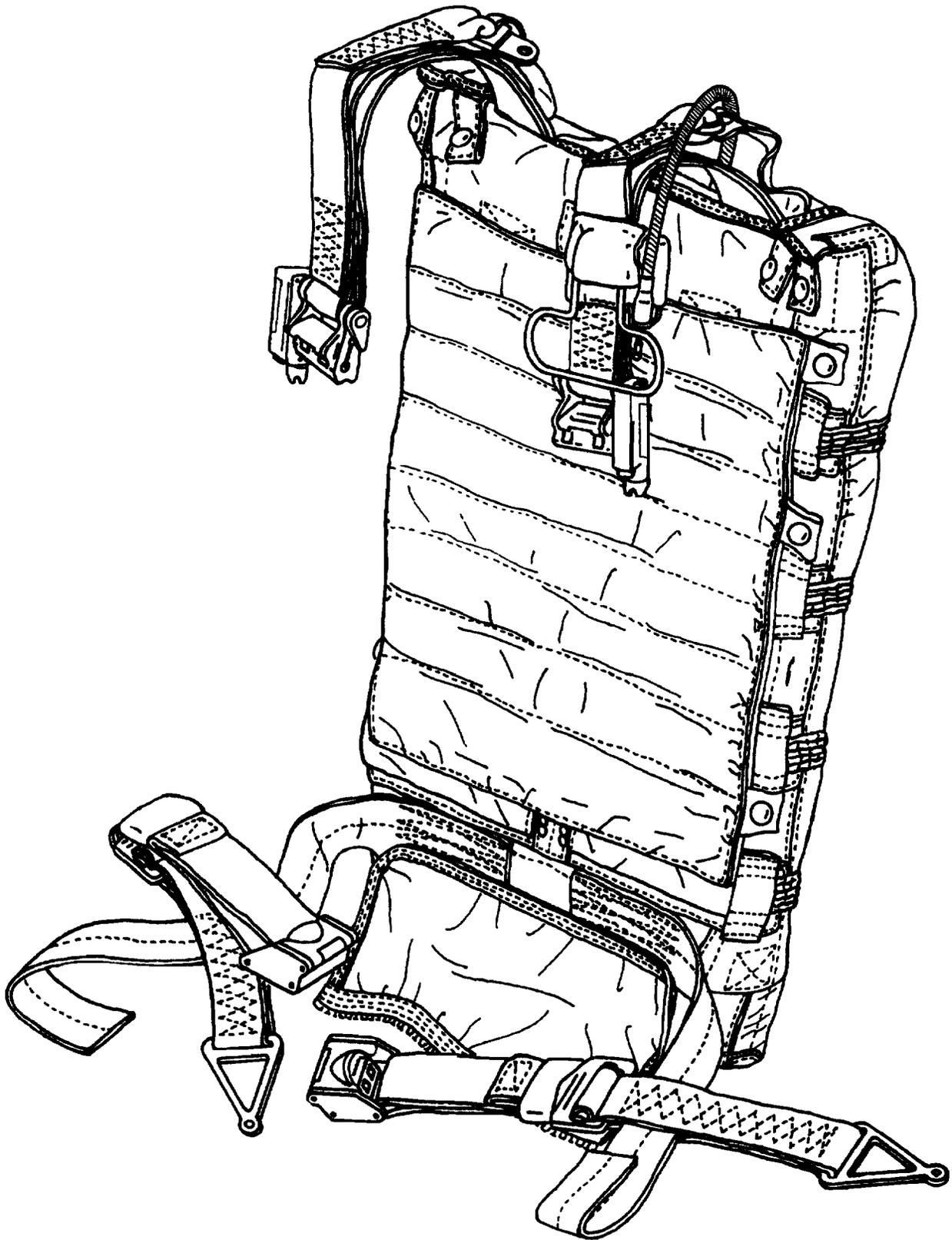
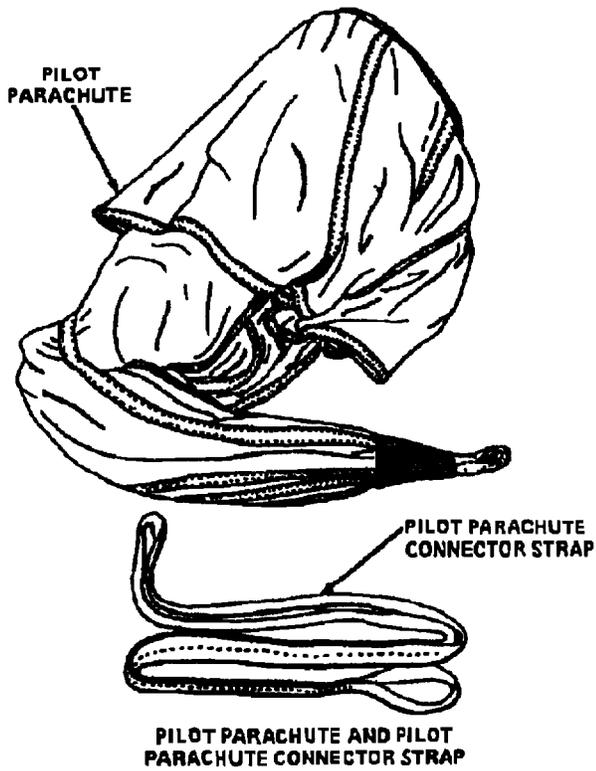
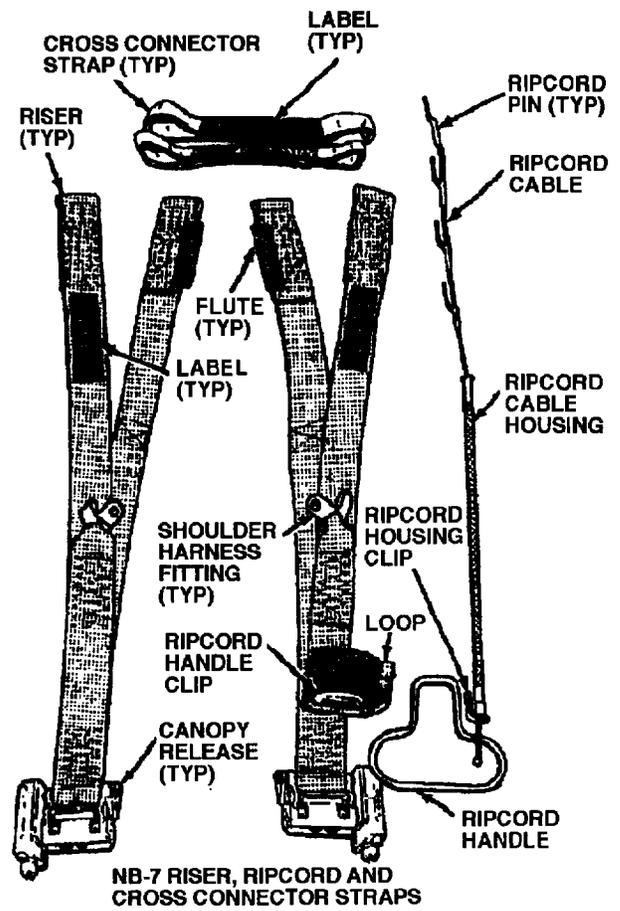


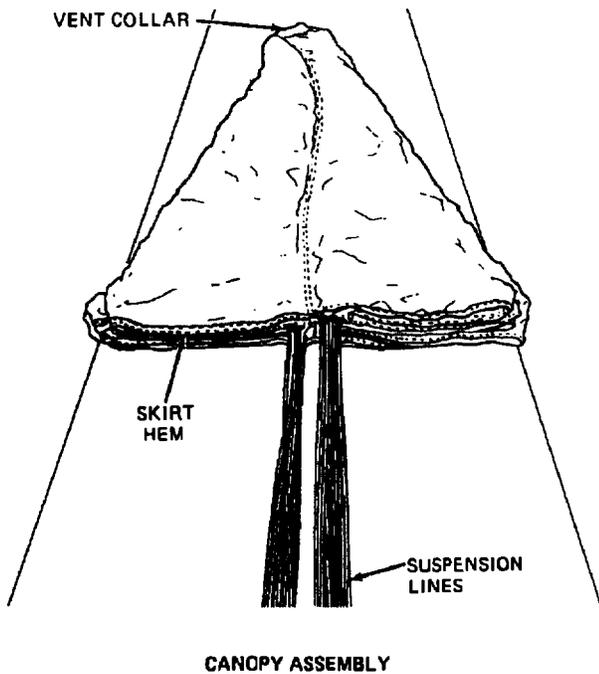
Figure 1. Personnel Parachute Assembly, NB-7



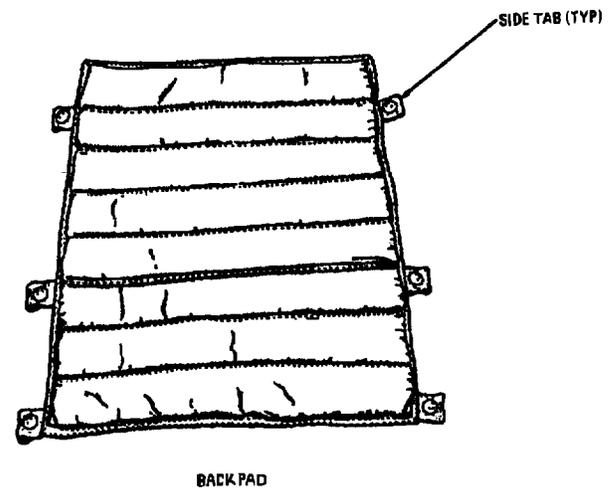
6.2-5011A



6.2-5011C



6.2-5158C



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Figure 2. Subassemblies, NB-7 (Sheet 1 of 3)

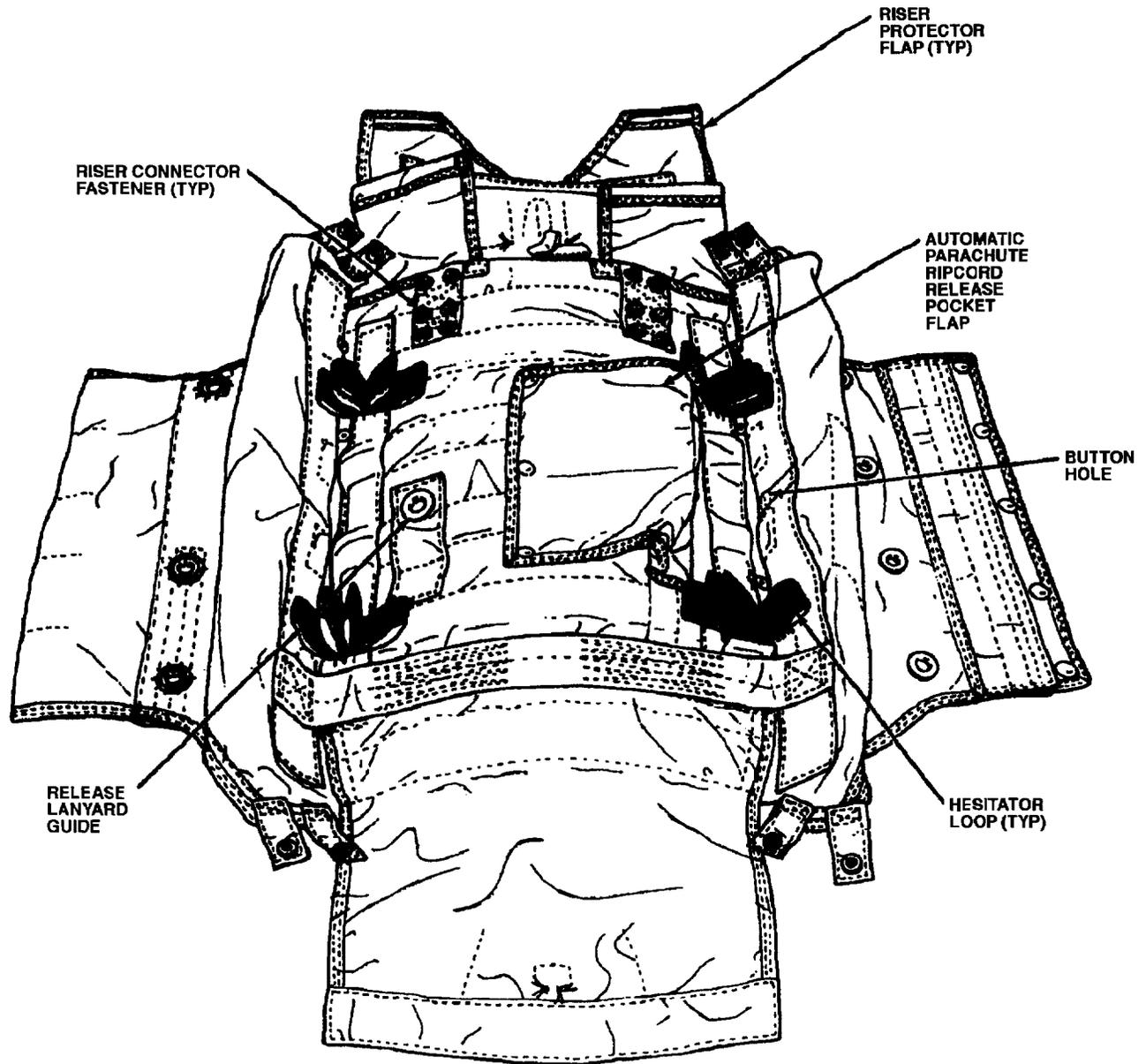


Figure 2. Subassemblies, NB-7 (Sheet 2 of 3)

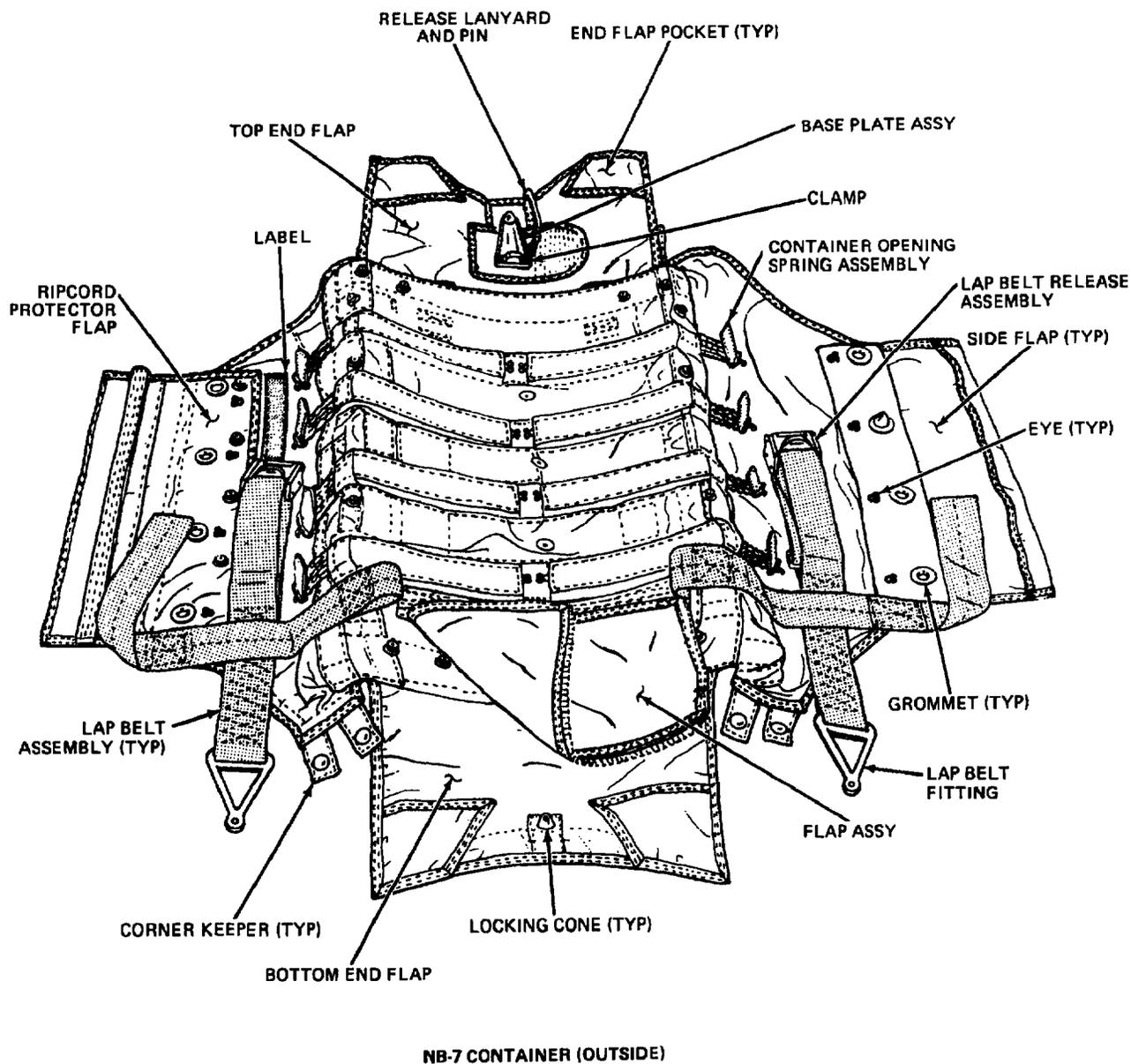


Figure 2. Subassemblies, NB-7 (Sheet 3 of 3)

ORGANIZATIONAL MAINTENANCE

REPAIR PROCEDURES

NB-7 PERSONNEL PARACHUTE ASSEMBLY

PART NO. 566AS100-11 and 566AS100-14

List of Effective Work Package Pages

<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>
1 thru 6	10						

Reference Material

Aviation-Crew Systems Seat Survival Kits (Oxygen Hoses and Non-SDU-Series Kits) NAVAIR 13-1-6.3-1

Alphabetical Index

<u>Title</u>	<u>Page</u>
Canopy Release Assembly	2
Replacement of Canopy Release Assembly	3
Replacement of Torque Seal on Canopy Release Assembly	4
Replacement of Torque Seal on Canopy Release Assembly with SEAWARS Incorporated	4
Container Assembly	5
Replacement of Ripcord Pin Retention Tie	5
Replacement of Spring Opening Assembly	5
Introduction	2
Lap Belt Assembly	4
Replacement of Lap Belt Release Assembly	4
Riser Assembly	2
Replacement of Ripcord Housing Clip Tacking	2
Survival Kit	5
Replacement of Retainer Strap Tackings	6
Replacement of Standard Soft Pack (SSP) and Ventilated Seat Pan	5

Record of Applicable Technical Directives

None

1. INTRODUCTION.

- a. This Work Package (WP) contains instructions for organizational level repair to ensure that the parachute assembly remains in Ready-For-Issue (RFI) status.
- b. When performing repairs detailed in this WP, proceed per these guidelines:
 - (1) Review all applicable instructions prior to starting repair.
 - (2) Ensure that all necessary support equipment and materials required are available prior to starting repair.
 - (3) When required, remove enough material from its source for immediate use only. Ensure that the material identification ticket remains with the source material at all times. Material that cannot be identified will not be used.
 - (4) To ensure conformity, all repair work shall be carefully inspected and compared to applicable instructions at completion of work.
 - (5) A Quality Assurance (QA) inspector shall examine the finished work.

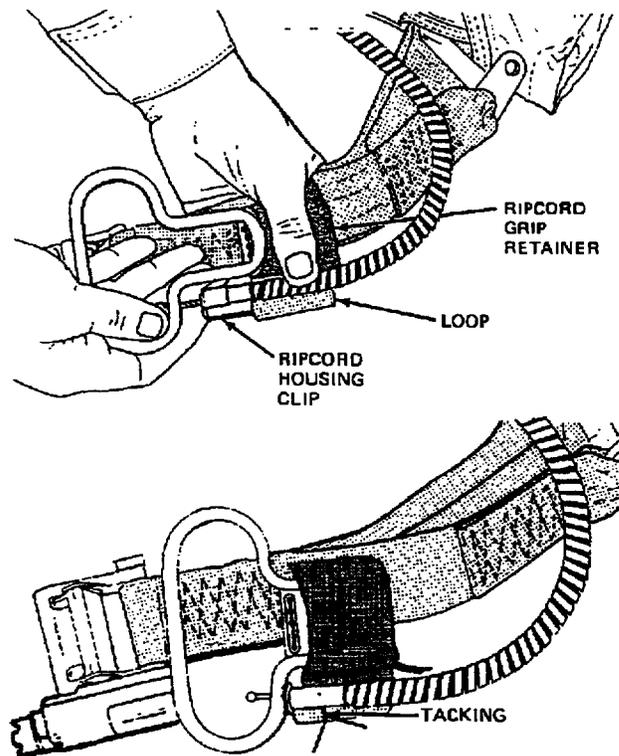


Figure 1. Replacement of Ripcord Housing Clip Tacking

6.2-5649

2. RISER ASSEMBLY.

3. REPLACEMENT OF RIPCORD HOUSING CLIP TACKING.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. If necessary, reinsert ripcord housing clip into webbing loop attached to riser (Figure 1).
- b. Insert ripcord grip into retainer.
- c. Tack thru loop and thru hole in housing clip with one turn of size E thread, single and waxed; tie off (Figure 1). (QA)

4. CANOPY RELEASE ASSEMBLY.

- a. Repair of the canopy release assembly is limited to the following:
 - (1) Replacement of broken torque seal on screwhead.
 - (2) Cleaning of dirt, grease, and other contaminating agents.
- b. Replace canopy release assembly for any of the following:
 - (1) Failure of actuating lever to meet torque requirement.
 - (2) Inoperable release.
 - (3) Corrosion, contamination, pitting, cracks, dents, and other damage. Inspect the release lever left and right arms for cracks.

5. REPLACEMENT OF CANOPY RELEASE ASSEMBLY.

Support Equipment

Part Number	Nomenclature
Meter, Torque	TQS-050 (Cage 55719) or TQS6 (Cage 55719)
Driver, Hex Head 1/16 in. bit	TMA2 (Cage 55719) for use w/TQS6

Material Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound

CAUTION

After pin has been removed, do not lift canopy release assembly fitting locking cover plate.

a. Remove unserviceable canopy release assembly fitting by removing setscrew on underside of fitting and sliding retention pin out. Remove pin guide tube from riser loop.

b. Inspect replacement canopy release for broken springs, corrosion, dents, or sharp edges. Measure torque of knurled actuating lever as follows:

(1) Hold locking lever in open position and insert torque meter into either hexagonal cavity.

(2) Rotate actuating lever to point just prior to contact with body. The allowable torque is 28 to 50 in-oz.

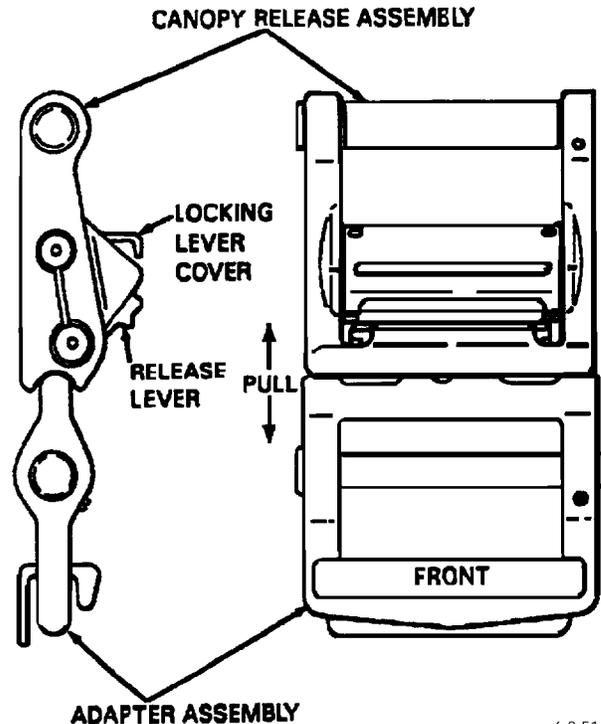
c. Inspect replacement canopy release assembly for proper locking as follows:

(1) Engage male adapter (with trapezoidal notch) with canopy release assembly (Figure 2).

(2) Verify full locking of canopy release assembly by lifting locking lever and attempting to disengage adapter from canopy release.

NOTE

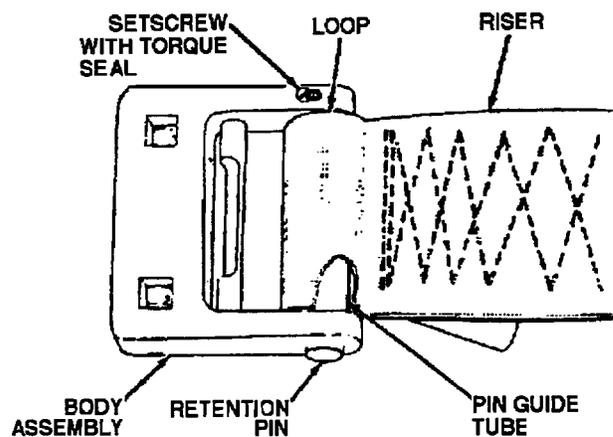
Any free movement of actuating lever without spring tension is cause for rejection of canopy release.



6.2-5162

Figure 2. Canopy Release Assembly Locking Inspection

d. Insert new pin guide tube into riser loop (Figure 3).



6.2-5090

Figure 3. Canopy Release Assembly Replacement

e. Insert riser loop pin guide tube into body of canopy release. Insert retention pin thru pin guide tube.

f. Insert setscrew in hole located on underside of new canopy release assembly and tighten. Apply torque seal to setscrew (Figure 3).

6. REPLACEMENT OF TORQUE SEAL ON CANOPY RELEASE ASSEMBLY.

Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound

a. Ensure setscrew is tight and seated properly in retention pin.

b. Apply torque seal to setscrew (Figure 3). (QA)

7. REPLACEMENT OF TORQUE SEAL ON CANOPY RELEASE ASSEMBLY WITH SEAWARS INCORPORATED.

Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound

a. Apply torque seal to the plug assembly, sensor plug and electronics package assembly attaching screws (Figure 4).

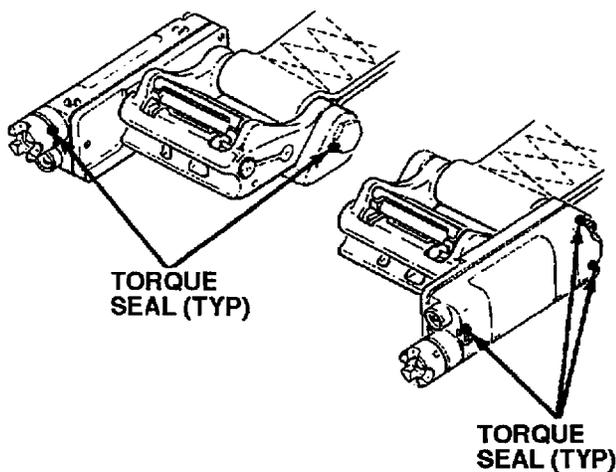


Figure 4. Torque Seal on PHSRU Assembly Replacement

6.2-6716

8. LAP BELT ASSEMBLY.

9. REPLACEMENT OF LAP BELT RELEASE ASSEMBLY.

Materials Required

Specification or Part Number	Nomenclature
1979AS826-1 -or- 015-11365-1 -or- 990060-1	Release Assembly, Lap Belt
MIL-S-22473	Sealing Compound, Grade H

a. Remove two shoulder screws. Pull release assembly away from webbing and slide pin out of harness webbing loop.

b. Inspect new release assembly for operation, corrosion, burrs, and sharp edges.

c. Insert new pin into webbing loop.

d. Apply sealing compound to threads of two shoulder screws. Install screws thru holes in release assembly and into pin (Figure 5).

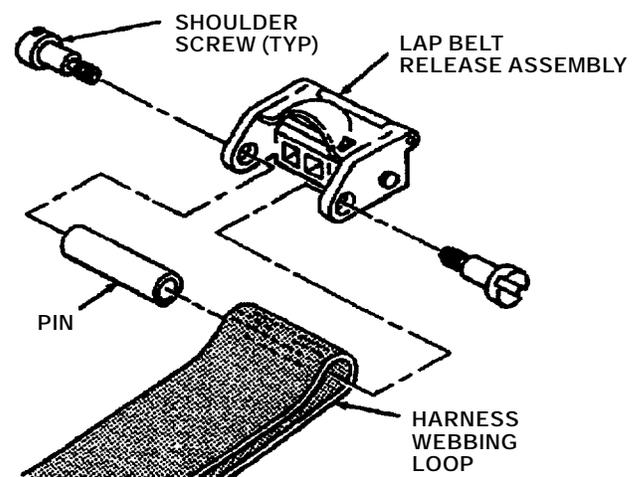


Figure 5. Lap Belt Release Assembly Replacement

6.2-5652A

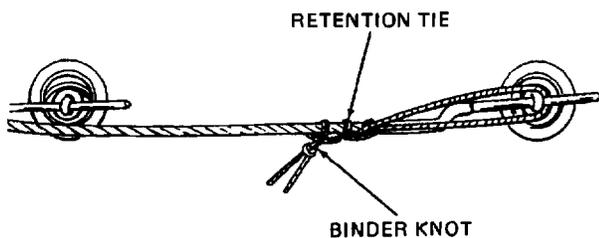
10. CONTAINER ASSEMBLY.

11. REPLACEMENT OF RIPCORD PIN RETENTION TIE.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A

- a. Completely remove broken retention tie from ripcord pin and cable.
- b. Loop a 12-in. length of size E thread, single and waxed, under bottom ripcord pin. Secure by bringing thread ends together and forming 3 to 5 half-hitches above ripcord pin ferrule. Top off with a binder knot (Figure 6).



6.2-5648

Figure 6. Ripcord Pin Retention Tie Replacement

- c. Trim excess thread 1/2-in. from knot.

12. REPLACEMENT OF SPRING OPENING ASSEMBLY.

Materials Required

Specification or Part Number	Nomenclature
60A113D11-3	Spring Assembly, Container Opening

- a. Measure length of replace spring opening assembly. Required length is $10 \frac{3}{8} \pm \frac{1}{4}$ -in. when measured from end of one hook to end of other hook with no tension applied.

- b. Inspect spring opening assembly for broken spring, contamination, corrosion, cuts, fraying, bent or broken hooks, elasticity, and loose or broken stitching.

- c. Remove back pad from container.

- d. Remove defective spring opening assembly from eyelet on container centerline.

- e. Attach hook of defective spring opening assembly to hook of replacement spring opening assembly at pull tab end. Pull replacement spring opening assembly thru channel while removing defective spring opening assembly.

- f. Attach hook of replacement spring opening assembly with hook facing down to eyelet on container centerline. Crimp hook to eyelet.

- g. Attach remaining hook to corresponding eyelet on container.

- h. Attach back pad to container.

13. SURVIVAL KIT.

14. REPLACEMENT OF STANDARD SOFT PACK (SSP) AND VENTILATED SEAT PAN.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

NOTE

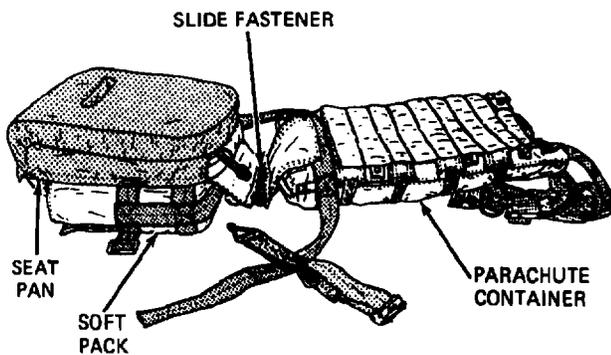
Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Ensure that ventilated seat pan and SSP have been inspected and secured together per NAVAIR 13-1-6.3-1.

- b. Attach ventilated seat pan and SSP to parachute container.

- c. Place ventilated seat pan and SSP on table with SSP facing down.

- d. Place parachute container upside down on table with bottom of parachute container facing rear of seat pan and SSP. Engage slide fastener (Figure 7).



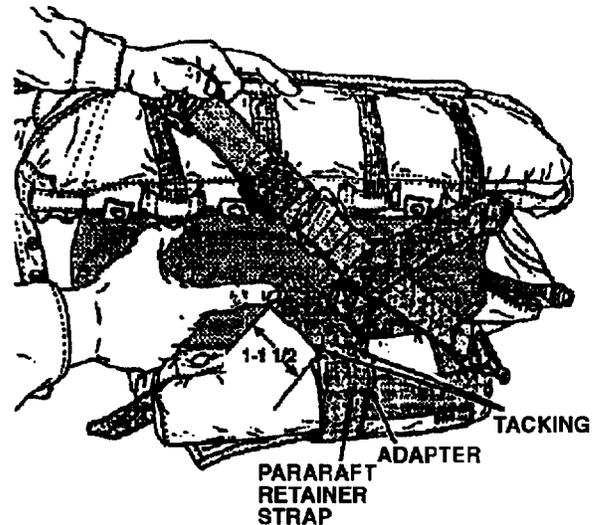
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Figure 7. Placement of Parachute Container

e. Rotate parachute container over and place on top of seat pan and SSP.

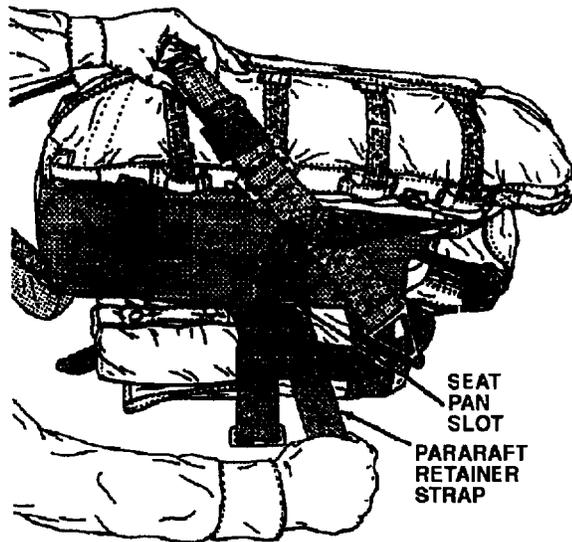
f. Reeve both pararaft retainer straps thru slots in sides of seat pan (Figure 8).

h. Leave 1 to 1 1/2-in. of strap above adapter. Tack both edges of each strap to strap beneath with two turns of size 6 thread, single and waxed; tie off (Figure 9).



6.2-5654C

Figure 9. Tacking of Both Straps



6.2-5654B

Figure 8. Reeving of Retainer Straps

g. Reeve pararaft retainer straps thru adapters on sides of SSP. Reeve retainer straps back thru adapters.

15. REPLACEMENT OF RETAINER STRAP TACKINGS.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

a. Ensure retainer strap is reeved properly (Figure 9).

b. Tack retainer strap on both strap edges to strap beneath with two turns of size 6 thread, single and waxed; tie off (Figure 9).

INTERMEDIATE AND DEPOT MAINTENANCE

PACKING PROCEDURES

NB-7 PERSONNEL PARACHUTE ASSEMBLY

PART NO. 566AS100-11 and 566AS100-14

List of Effective Work Package Pages

<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>
1 thru 21	11					

Reference Material

Intermediate and Depot Maintenance, Common Repair Procedures	WP 004 00
Introduction, Organizational, Intermediate and Depot Maintenance with Illustrated Parts Breakdown, Emergency Personnel and Drogue Parachute Systems	WP 002 00
Organizational, Intermediate and Depot Maintenance, Parachute Loft Requirements/Administration	WP 003 00
Organizational, Intermediate and Depot Maintenance, Support Equipment	WP 005 00

Alphabetical Index

<u>Title</u>	<u>Page</u>
Final Checkout	21
General	3
Inspection (Special)	4
Canopy Assembly	5
Canopy Release Assembly	6
Container and Back Pad	7
Inspection of Ripcord Assembly	6
Lapbelt Assembly	7
Pilot Parachute Connector Strap	6
Riser and Cross-Connector Straps	6
Service Life Check and Configuration Updating	4
Suspension Line Continuity Check	5
Layout of Rigged Parachute Assembly	4
Packing	7
Attachment of Ripcord Housing and Spacer to Container Base	11
Attachment of Risers to Container	11
Attachment of Standard Soft Pack (SSP) and Ventilated Seat Pan	20
Attachment of Survival Kit	19
Closing of Container	17
Retention Tie Ripcord Pin and Tacking Ripcord Housing Clip	20
Ripcord Pin Pull Check	20
Stowage of Canopy	14
Stowage of Suspension Lines	12
Whipping and Folding of Canopy	7

Alphabetical Index (Cont.)

<u>Title</u>	<u>Page</u>
Preliminary Procedures	3
Survival Kit Attachment	20
Attachment of Standard Soft Pack (SSP) and Ventilated Seat Pan	20
Retention Tie Ripcord Pin and Tacking Ripcord Housing Clip	21
Ripcord Pin Pull Check	20

Record of Applicable Technical Directives

None

1. GENERAL.

a. Packing instructions are provided with the assumption that they will be carried out under ideal conditions in a parachute loft (WP 003 00). When a parachute assembly must be packed under unfavorable conditions provisioning must be made to protect it from possible damage and excessive humidity.

b. In no case shall the packing of a parachute assembly be interrupted after the packing operation has been started. If the packing operation is interrupted due to unforeseen circumstance, the parachute assembly shall be completely repacked per instructions contained in this Work Package (WP).

c. Quality Assurance (QA) points have been included in the packing procedures. When a procedural step is followed by "(QA)" there is a quality assurance requirement. Witnessing of (QA) steps may be delayed by (QA) if their satisfactory completion is verified in later steps.

d. During packing procedures, packer shall be positioned on left side of packing table, and helper on right side when viewed from riser end of table.

2. PRELIMINARY PROCEDURES.

Support Equipment Required

Part Number	Nomenclature
TMA2 (use w/TQS6)	Hex Head Driver 1/16-in. Bit
Refer to WP 005 00	Shot Bag (4)
Refer to WP 005 00	Long Bar (2)
Refer to WP 005 00	Fid
—	Guide Tube
TQS-050 or TQS6	Torque Meter
Refer to WP 005 00	Packing Hook
11-1-3512	Small Line Separator
Refer to WP 005 00	Temporary Locking Pin (2)
DPP-50	Scale, Spring

Part Number	Nomenclature
Refer to WP 005 00	Ripcord Pin Lock

Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound
V-T-295	Thread, Nylon, Size A, Type I or II, Class A
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
V-T-295	Thread, Nylon, Size FF, Type I or II, Class A
V-T-295	Thread, Nylon, Size 3, Type I or II, Class A
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

PIA-C-5040	Cord, Nylon, Type I or IA
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- Ensure that all support equipment and materials required are available prior to starting.
- Inspect packing tools for nicks, burrs, or sharp edges which may cause damage to the parachute assembly.
- Count and record number of packing tools.
- Clean packing table.

3. LAYOUT OF RIGGED PARACHUTE ASSEMBLY.

- Completely open parachute container and detach spring opening assemblies and corner keepers.
- Remove canopy from container and place on table.
- Remove release lanyard from connector link.
- Remove connector link tacking and disengage riser fasteners from container and release lanyard pin from stud.

e. Remove suspension lines from container and then stretch full length on packing table.

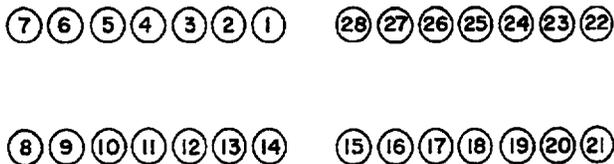
f. Locate gore 28 (nameplate gore) and place uppermost in center of packing table.

g. Attach tension strap hook to canopy vent lines.

h. Separate suspension lines into two equal groups with lines 1 thru 14 on packer's side and lines 15 thru 28 on helper's side. Grasping each group of lines, walk from skirt hem to connector links removing any twists between the two groups.

i. Position container on packing table with inside facing up and ripcord pocket on packer's side of table.

j. Place connector link holding lines 1 thru 7 on top of connector link holding lines 8 thru 14. Place connector link holding lines 22 thru 28 on top of connector link holding lines 15 thru 21. Insert tension hooks into connector links and insert hooks into packing table (Figure 1).



1202-1

Figure 1. Arrangement and Orientation of Suspension Lines on Connector Links

k. Tension canopy using tension strap.

l. Pull canopy vent collar below upper lateral band. Ensure that upper lateral band is even (Figure 2).

m. Pull vent collar back to original position.

4. INSPECTION (SPECIAL).

a. Maximum scheduled repack cycle is 672 days.

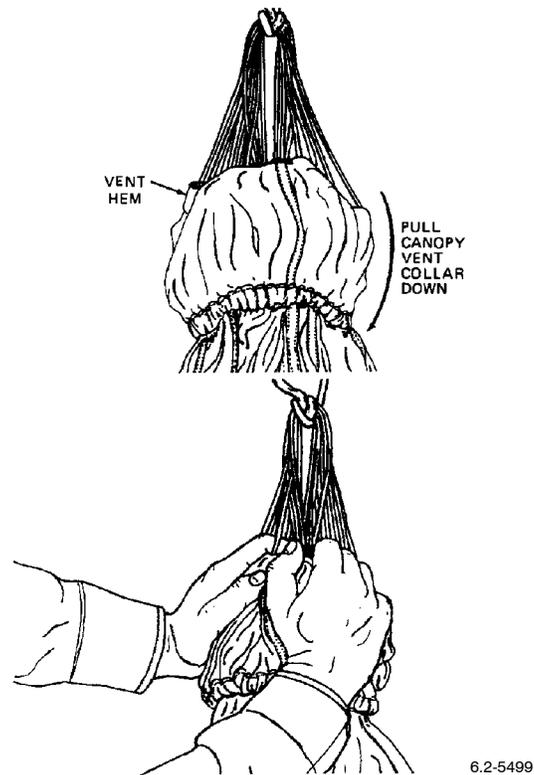


Figure 2. Adjustment of Vent Hem

5. SERVICE LIFE CHECK AND CONFIGURATION UPDATING.

NOTE

Unless otherwise noted, parachute component life shall start on the month of the date of manufacture and expire on the last day of that month.

a. All internal service life components, including cartridges, shall be replaced if service life expires prior to the next repack cycle. Repack cycles may be shortened to correspond to the first component that is expiring prior to the next inspection cycle. An external overage component (i.e. Parachute Harness Sensing Release Unit Cartridge) can be replaced without a parachute repack.

NOTE

Upon initiation of any Quality Deficiency Report (QDR), contact the In-Service Support Team at NAWCWD, China Lake, CA.

b. When replacing an external overage component without a parachute repack, draw a single red line through any information pertaining to that component on the Parachute Record (OPNAV 4790/101). The replacement component will be annotated on the next available line. The QA who witnessed the task shall apply the QA stamp to the right of the entry and complete the VIDS/MAF (OPNAV 4790/60).

c. A parachute assembly may be opened to permit compliance with a Technical Directive. After completion of directive, the parachute assembly repack cycle may be re-based if all parachute components have the necessary life available or may be returned with the original repack date in order to keep it aligned with the actual aircraft inspection cycle.

d. When a component reaches the service/total life limit, it shall be returned to supply for disposition.

e. If parts received from supply are lacking a date of manufacture and are new in manufacturer's packaging, they may be used for one complete repack cycle, then removed. Place "No Date of Manufacture" in the Date of Manufacture's block on the Parachute Record (OPNAV 4790/101). Submission of a Quality Deficiency Report (QDR) shall follow each occurrence.

f. Components without a service/total life shall be removed from service if the components do not pass inspection, as determined by Quality Assurance Representative (QAR) or Collateral Duty Inspector (CDI).

g. Check date placed in-service and date of manufacture on each parachute part for service/total life as follows:

Nomenclature	Service Life (Yr)	Total Life (Yr)
Battery	4	4
Canopy Assembly	None	15
Cartridge MW19	Refer to NAVAIR 11-100-1.1	
Cross-Connector Strap	(See Note 1)	(See Note 1)
Electronics Package		
Assembly	None	8
Pilot Parachute		15
Pilot Parachute		
Connector Strap	None	15
Riser Assembly	None	15

Note 1: Replace at Canopy Assembly replacement.

(1) Markings for completeness, legibility, and agreement with information on Parachute Record (OPNAV 4790/101).

(2) Compare configuration of parachute assembly to that shown in NAVAIR 13-1-6.2 Record of Applicable Technical Directives, and Illustrated Parts Breakdown.

6. SUSPENSION LINE CONTINUITY CHECK.

a. Grasp line 1 on left side of gore 28 and raise line to height sufficient to ensure that line is free of dips and twists from skirt hem to connector links. Continue procedure with lines 2 thru 14. (QA)

b. Use same procedure as in step a above on right side of gore 28 except that packer shall start with line 28 and work thru line 15 (Figure 1). (QA)

7. CANOPY ASSEMBLY.

a. Canopy skirt hem, fabric surface, diagonal seams, radical seams, vent hem, water deflation pockets, for cuts, holes, ruptures, contamination, deterioration, and loose or broken stitching.

b. Suspension lines and canopy apex lines for fraying, ruptures, protruding inner core lines, burns, contamination, and presence of twists.

c. Attachment of suspension line at skirt hem for security and condition of V-tabs.

d. Attachment of four-line release anchor loops to suspension lines 3 and 26.

e. Attachment of four-line release lanyards to anchor loops on suspension lines 3 and 26.

f. Activate the four-line release and retack per WP 004 00. (QA)

g. Four-line release system for proper rigging and security of tacking WP 004 00. (QA)

h. Connector links for corrosion, distortion, nicks, burrs, sharp edges, and cracks.

NOTE

For Double "L" Connector Link, refer to WP 012 03 for disassembly, assembly, and inspection instructions.

i. Connector links for defective yoke and plate assemblies. Maximum of 1/32-in. play allowable in plate.

j. Torque seal unbroken with yoke and plate assemblies installed with knurled portion facing up and screwheads facing outboard (Figure 3). (QA)

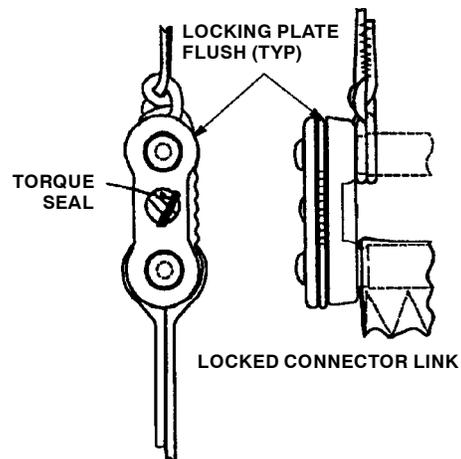


Figure 3. Torque Seal Unbroken

8. PILOT PARACHUTE CONNECTOR STRAP.

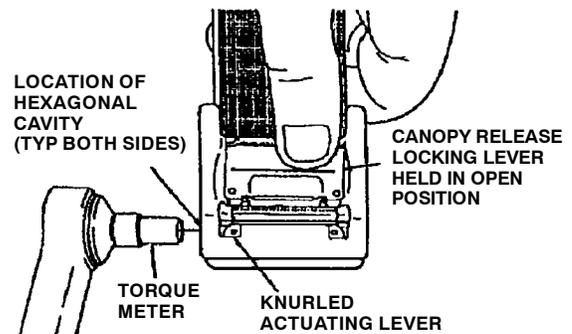
- a. Fabric surfaces, and seams for cuts, tears, burns, fraying, and loose or broken stitching.
- b. Vane material for cuts, tears, burns, fraying, and deterioration.
- c. Seam area at crown for seam separation.
- d. Spring assembly for distortion.
- e. Loose or broken tackings (4 places) at bottom of coil spring.
- f. Connector strap for cuts, fraying, burns, loose or broken stitching.
- g. Connector strap for proper attachment at apex lines and pilot parachute loop.
- h. Connector strap for loose or broken tacking of Lark's head knot at pilot parachute loop.

9. RISERS AND CROSS-CONNECTOR STRAPS.

- a. Webbing for contamination, rust at points of contact with metal parts, cuts, twists, fading, wear, fraying, burns, abrasions and loose or broken stitching.
- b. Four-line release lanyard flute for wear and proper attachment.
- c. Cross-connector straps for proper attachment to connector links.
- d. Four-line release and release lanyard pull loops for loose or broken tackings.
- e. Snap fastener sockets for proper mating to container, easy release if pulled from connector link end of riser, damage, and security of attachment.
- f. Ripcord grip retainer for corrosion, damage, and security of attachment.
- g. Cross-connector straps for contamination, cuts, fraying, burns, and loose or broken stitching.
- h. Shoulder harness fittings or corrosion, damage, and security of attachment.

10. CANOPY RELEASE ASSEMBLY.

- a. Release body for broken actuating and locking lever springs, corrosion, dents, dirt, or sharp edges. Inspect the release lever left and right arms for cracks.
- b. Presence and condition of torque seal on setscrew.
- c. Measure torque of knurled actuating lever as follows:
 - (1) Hold locking lever in open position and insert torque meter into either hexagonal cavity. (QA)
 - (2) Rotate actuating lever to point just prior to contact with body. The allowable torque of 28 to 50-in. oz. (Figure 4).



6.2-1102

Figure 4. Torque Inspection

11. INSPECTION OF RIPCORD ASSEMBLY.

- a. Cable for corrosion, bends, fraying, broken strands and security of attachment of swaged ball.
- b. Locking pins for bends, dents, cracks, security of attachment to cable, and corrosion.
- c. Grip for bends, dents, cracks, and corrosion.
- d. Housing and clip for corrosion, bends, dents, security of attachment, loose ferrules, breaks, and cracks.

12. CONTAINER AND BACK PAD.

- a. Grommets, cones, snap fasteners for security of attachment, cracks, corrosion, nicks, and gouges.
- b. Slide fasteners for condition and proper operation.
- c. Fabric areas release lanyard, and hesitator loops for seam separations, loose or broken stitching, cuts, tears, contamination, and deterioration.

d. Hardware for corrosion, bends, dents, nicks, sharp edges, and security of attachment.

e. Spring opening assemblies for broken springs, contamination, corrosion, cuts, fraying, bent or broken hooks, elasticity, and loose or broken stitching.

f. Spring opening eyes (8) for security of attachment.

g. Snap fastener studs for proper mating with risers, security of attachment, and damage.

h. Release assembly pocket slide fastener for proper operation.

13. LAPBELT ASSEMBLY.

a. Webbing for contamination, cuts, fraying, twists, loose or broken stitching and presence and condition of keeper straps.

b. Adapters for corrosion, nicks, burrs, sharp edges, security of attachment and ease of operation.

c. Lapbelt fittings for corrosion, bends, burrs, wear, and cracks.

d. Slide fastener for condition and security of attachment.

e. Release assemblies for condition, corrosion, security of attachment and proper operation (Figure 5).

14. PACKING.

15. WHIPPING AND FOLDING OF CANOPY.

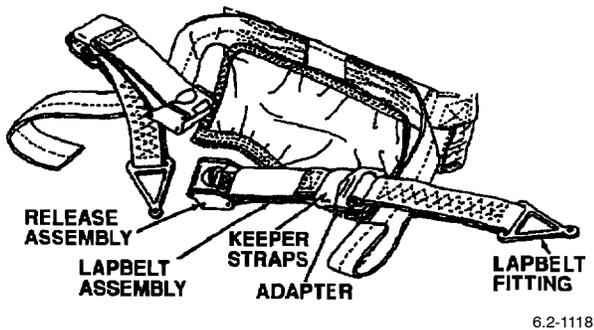


Figure 5. Proper Attachment

a. Packer and helper shall lift suspension line on each side of nameplate gore up and out. Skirt hem between lines shall

be taut so that canopy apex can be seen on inside. While holding suspension line up, each man shall whip the gore hanging from line outwards to prepare canopy for folding (Figure 6).

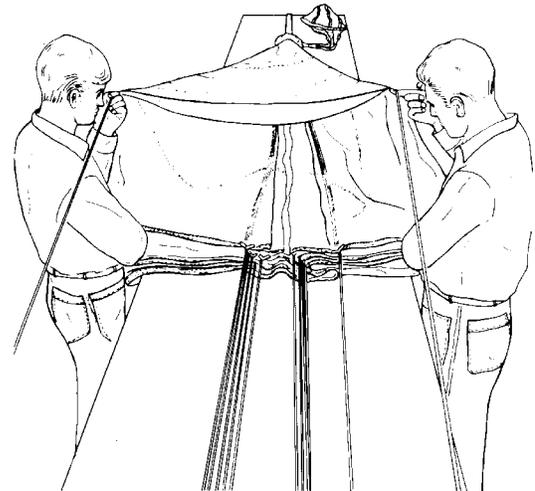


Figure 6. Lift Suspension Line on Each Side of Nameplate

6.2-5184B

b. Draw next suspension line upwards to suspension line in hand, using a rapid, circular motion (Figure 7).

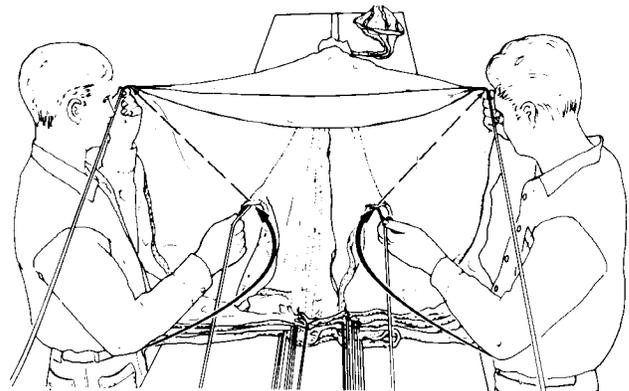
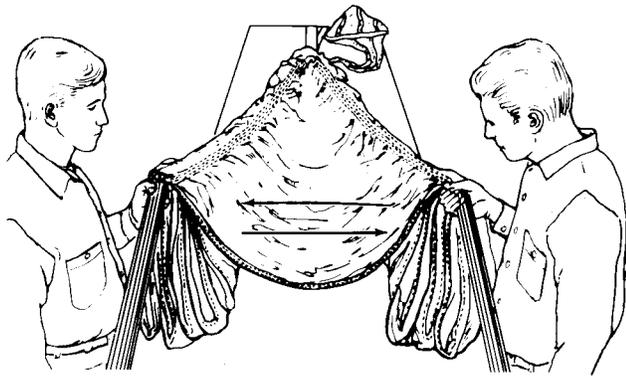


Figure 7. Draw Next Suspension Line Upwards

6.2-8184B

c. Continue whipping operation for all gores. Ensure radial seams are not overlapped by gore material. Move whipped gores rapidly back and forth across packing table (Figure 8).

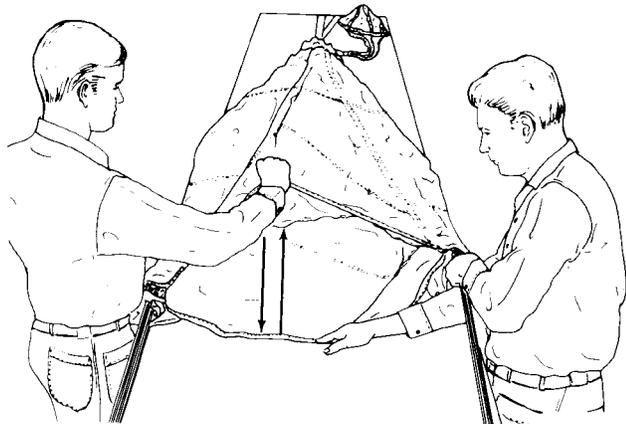


6.2-5184C

Figure 8. Continue Whipping Operation

d. Two groups of suspension lines shall be stretched to edges of packing table with folded gores hanging over sides. Packer and helper shall grasp all folds at outer edges on skirt hem and hold suspension line groups at edges of packing table. Packer and helper shall simultaneously move folds up and down rapidly in a whipping motion.

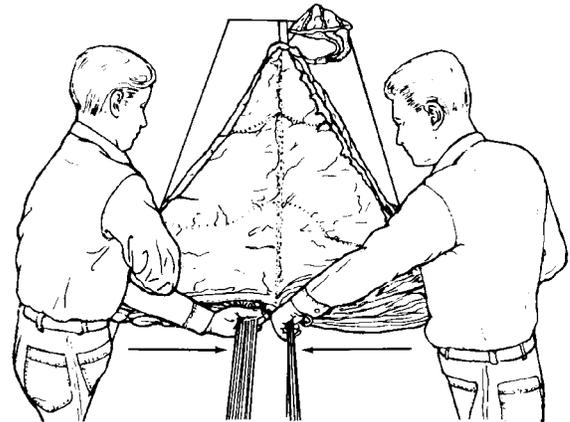
e. Packer shall flap top gore up and down at skirt hem center as helper holds bottom gore at skirt hem center (Figure 9).



6.2-5184D

Figure 9. Packer Shall Flap Top Gore

f. On signal, packer and helper shall draw their respective gores, at skirt hem centers, towards table edge while at same time bringing suspension line groups to center of packing table (Figure 10).

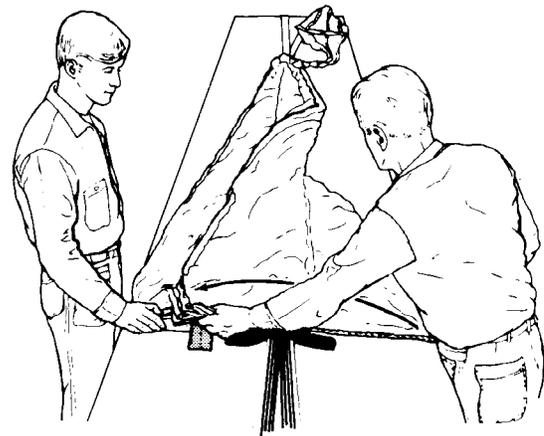


6.2-8185A

Figure 10. Draw Respective Gores to Center

g. Insert suspension line groups into their respective slots in line separator and place shot bag on lines. Packer shall place second shot bag across skirt hem on left side of suspension lines.

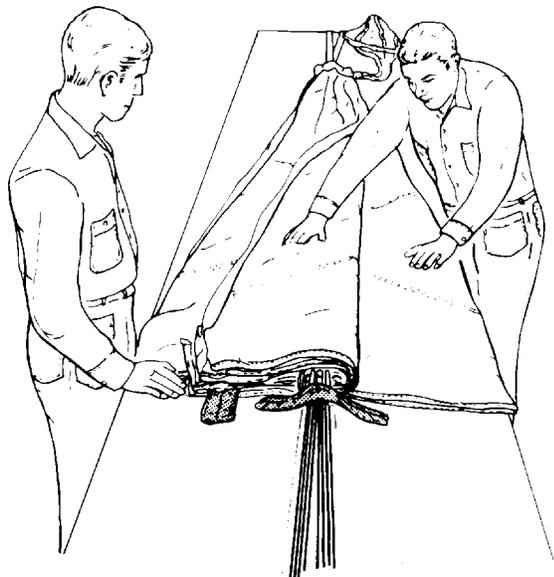
h. Helper shall rotate all gores as a group except bottom gore, from helpers side to packer's side of packing table (Figure 11).



6.2-5185B

Figure 11. Helper Rotate All Gores to Packer's Side

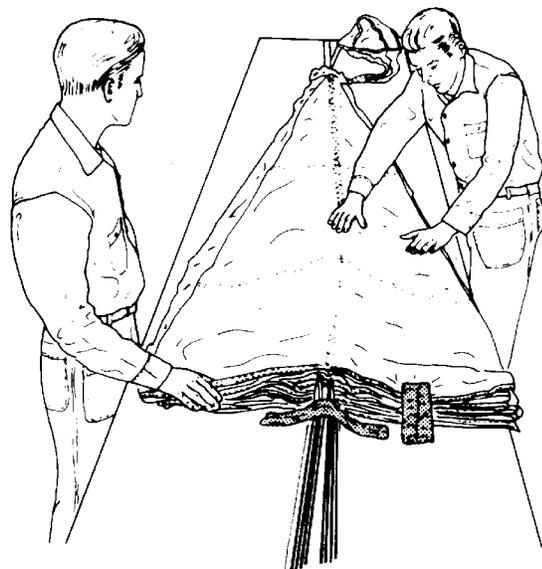
i. Helper shall straighten and smooth bottom gore on helper's side of packing table throughout its length to apex (Figure 12).



6.2-5185C

Figure 12. Helper Shall Straighten and Smooth Gores

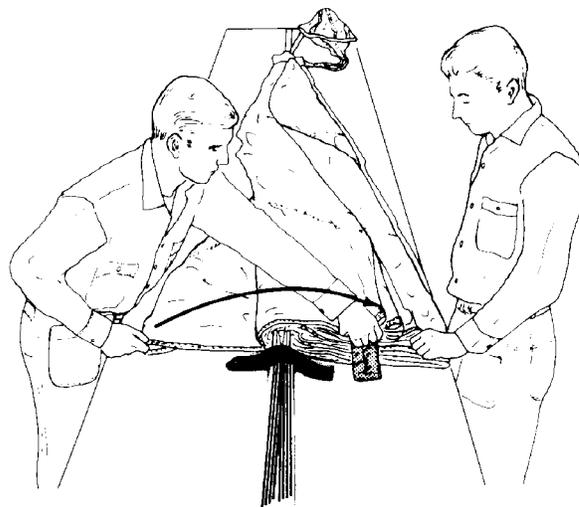
j. Packer shall return folded gores above shot bag to helper's side of packing table. Helper shall straighten and smooth each gore and place the shot bag on skirt hem (Figure 13).



6.2-5185D

Figure 13. Packer Return Folded Gores Above Shot Bag

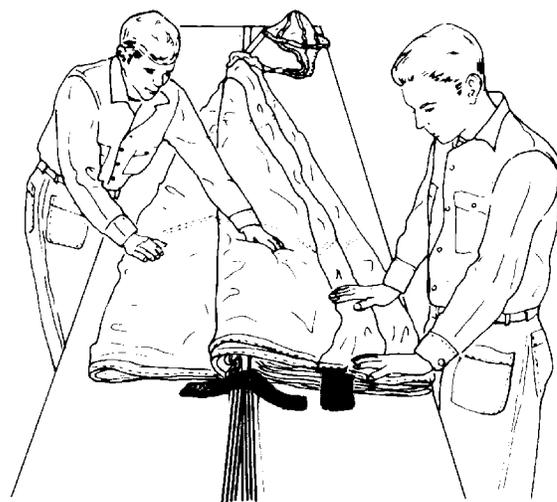
k. Packer shall rotate all gores as a group, except bottom gore, from packer's side to helper's side of packing table (Figure 14).



6.2-5186A

Figure 14. Packer Shall Rotate All Gores

l. Packer shall straighten and smooth bottom gore on packer's side of packing table throughout its length to apex (Figure 15).



6.2-5186B

Figure 15. Packer Shall Straighten and Smooth Gores

m. Helper shall return folded gores above shot bag to packer's side of packing table. Packer shall straighten and smooth each gore. remove shot bag from canopy (Figure 16).

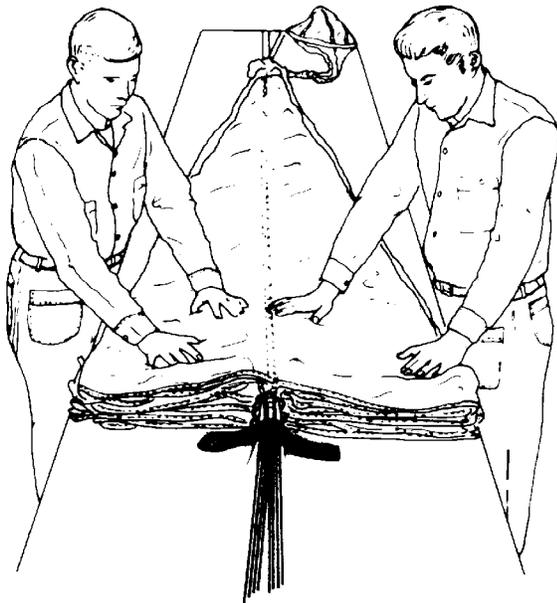


Figure 16. Helper Shall Return Gores Above Shot Bag

6.2-5186C

n. Packer and helper shall grasp skirt hem at mid-sections of gores and rotate towards suspension lines (Figure 17).

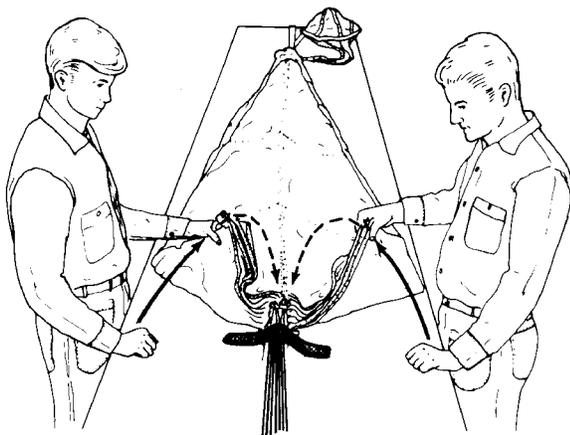
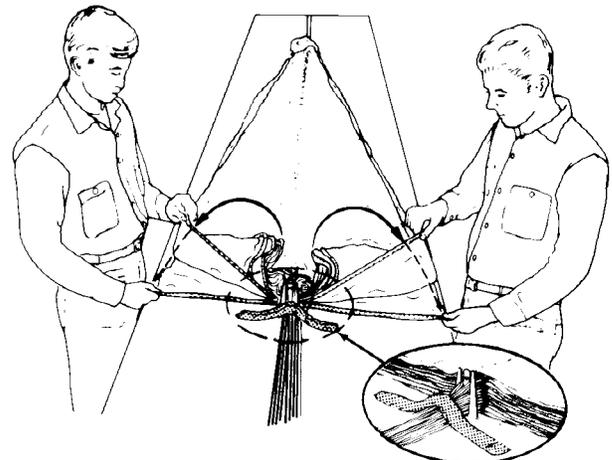


Figure 17. Grasp Skirt Hem and Rotate Towards Suspension Lines

6.2-5186D

o. Packer and helper shall grasp bottom most gore fold and extend outwards, aligning edge of skirt hem and suspension line V-tab reinforcements. Remaining 13 gores shall be aligned in a similar manner. Ensure that all V-tab reinforcements face same direction and that 14 gores have been counted on each side (Figure 18).



VIEW AFTER COUNTING AND ALIGNMENT

6.2-6006A

Figure 18. Grasp Gore Folds and Extend Outwards

p. Canopy shall be folded by packer placing his hand on helper's side at skirt hem. Helper shall rotate gores to center of canopy (Figure 19).

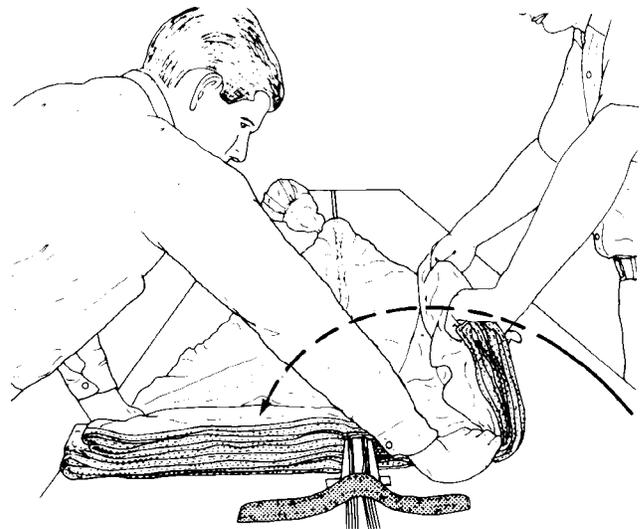
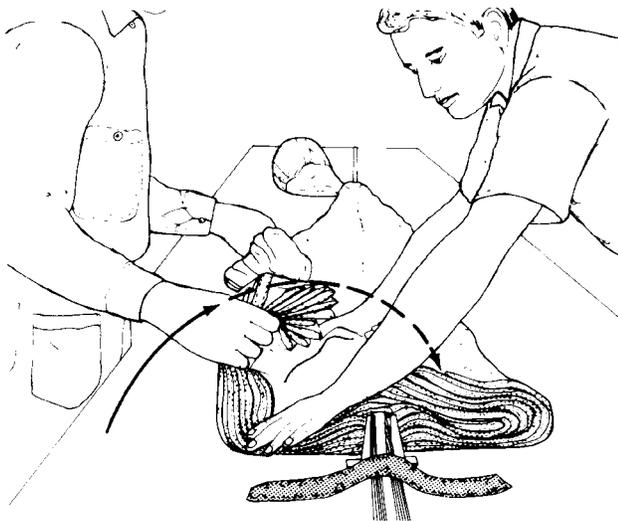


Figure 19. Helper Rotate Gores to Center of Canopy

6.2-6006B

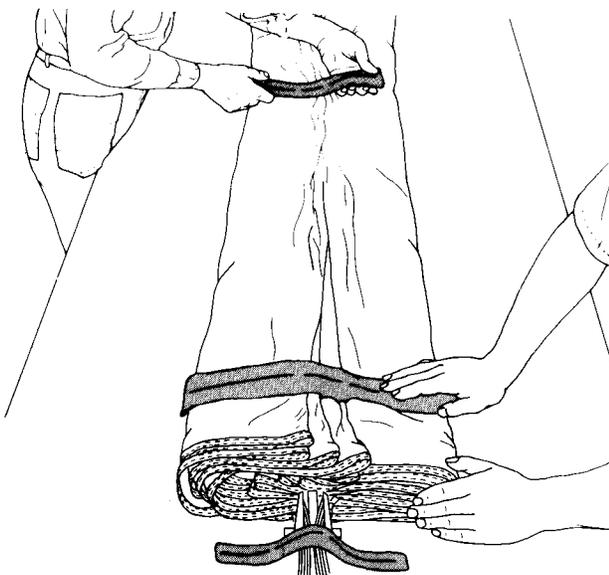
q. Helper shall place his hand on packer's side of skirt hem at center. Packer shall rotate gores to center of canopy. two groups of folded gores shall butt together. Note that canopy cannot be folded throughout entire length but breaks about two-thirds distance to apex (Figure 20).



6.2-6006C

Figure 20. Packer Rotate Gores to Center of Canopy

r. Place one shot bag slightly behind hem and another on middle of canopy. Remove small line separator (Figure 21).

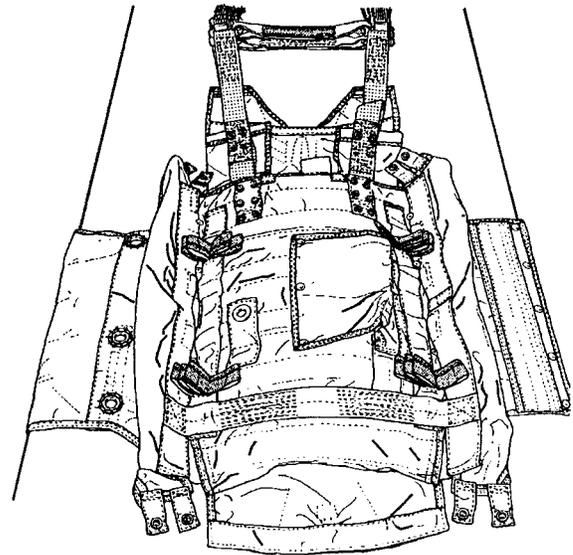


6.2-6006D

Figure 21. Placement of Shot Bags

16. ATTACHMENT OF RISERS TO CONTAINER.

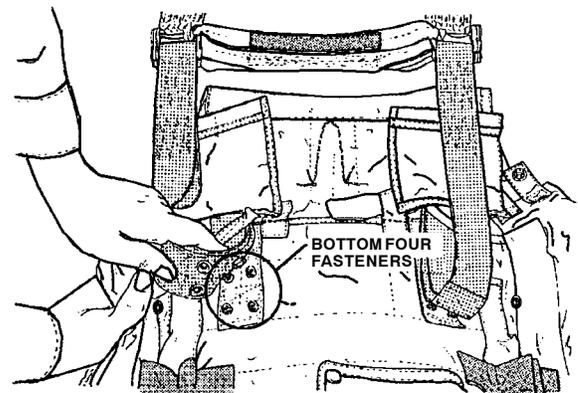
a. Position container on top of canopy release assemblies with inside facing up. Insert risers into slots located at top end of container (Figure 22).



6.2-6035A

Figure 22. Position Container

b. Slide container towards connector links. Fold each riser back and secure riser fasteners to four bottom fasteners on container (Figure 23).



6.2-6035B

Figure 23. Slide Container Towards Connector Links

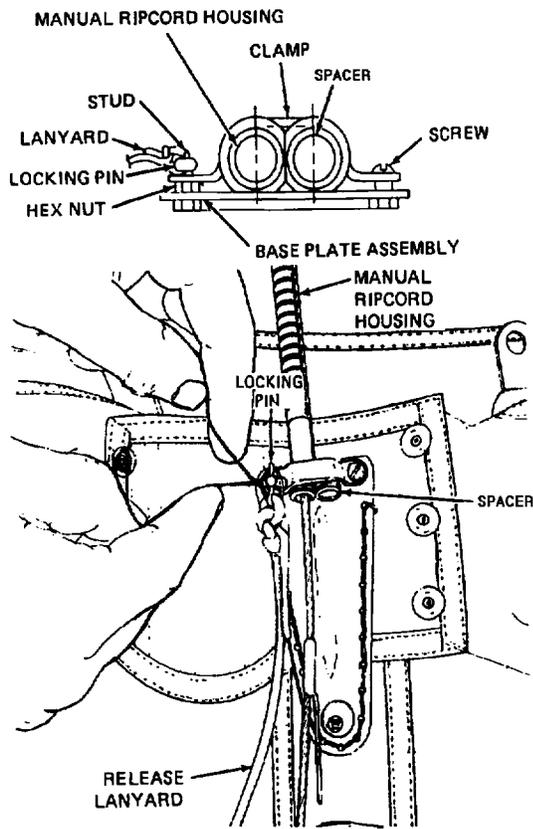
c. Release tension and remove tension strap, and place pilot parachute on top of canopy. Remove tension hooks from connector links, then remove hooks from packing table.

17. ATTACHMENT OF RIPCORD HOUSING AND SPACER TO CONTAINER BASE.

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

a. Position circular slotted end of base plate clamp under screwhead on base plate. Position manual ripcord housing and spacer under clamp with flat sides of each housing positioned against base plate. Engage clamp in clamping groove of two housing ends. Position elongated slot of clamp over base plate stud. Insert release lanyard locking pin into stud hole to secure clamp (Figure 24). (QA)



6.2-5280A

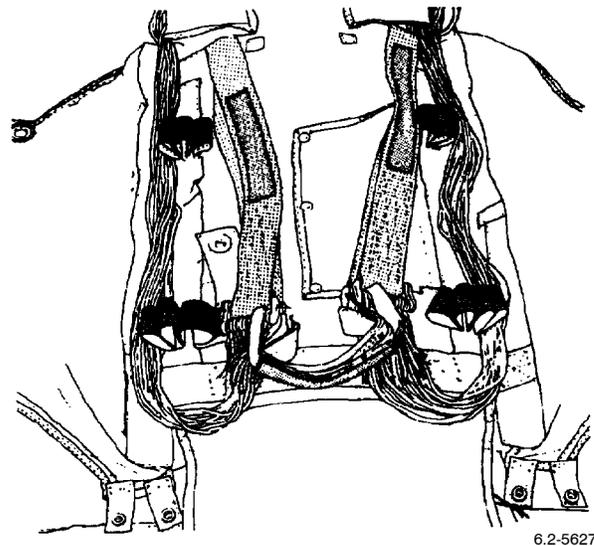
Figure 24. Attachment of Ripcord Housing and Spacer to Container Base

b. Safety-tie locking pin to stud with one turn size FF thread, single and waxed. Pass thread thru lanyard knot; tie off (Figure 24).

18. STOWAGE OF SUSPENSION LINES.

a. Position connector links inside open container (Figure 25).

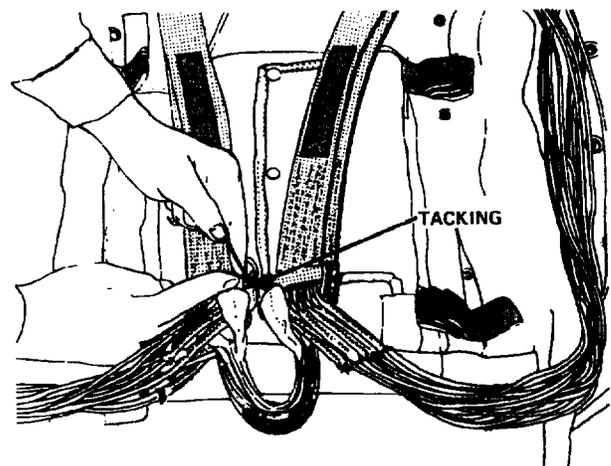
b. Reeve lanyard thru lanyard guide grommet. Position 36-in. mark on lanyard over bar on bottom of left connector link and secure with a bowline knot followed by an overhand knot.



6.2-5627A

Figure 25. Position Connector Links

c. Position connector links on centerline of container above fifth container stiffener from top end. Tie inboard sides of connector links together, passing one turn size 3 thread, single and waxed, or one turn size FF thread, doubled and waxed, thru fabric above fifth container stiffener; tie off (Figure 26).



6.2-5627B

Figure 26. Position Connector Links on Center Line of Container

d. Helper shall position suspension lines at bottom edge of container. Packer shall form first bight over hesitator loop farthest from canopy and farthest from helper. Draw bight 3/4-in. past hesitator loop edge (loop edge to hook body). Ensure that there are equal lengths of suspension line in both groups from connector links to hand. Canopy shall be drawn along packing table only in enough lengths to let each bight to be formed (Figure 27).

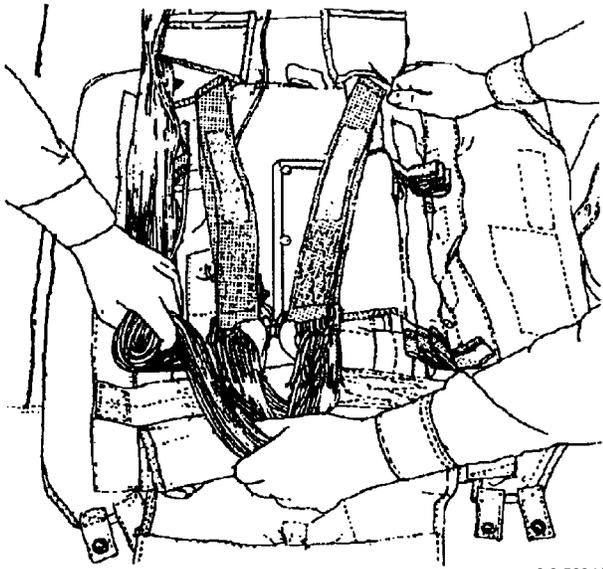


Figure 27. Helper Shall Position Suspension Lines

6.2-5294A

e. Keeping light tension on suspension line bight with packing hook, reposition and deposit the bight in front of hesitator loop. Carefully withdraw packing hook (Figure 28).

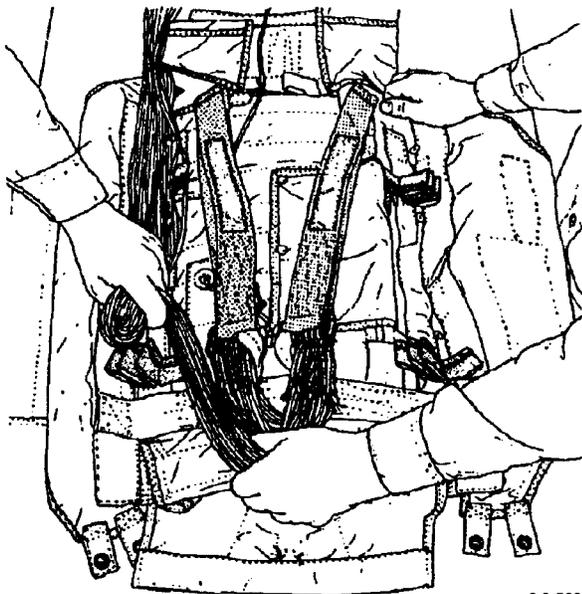


Figure 28. Keep Light Tension on Suspension Line Bight

6.2-5294B

f. Packer shall insert packing hook thru hesitator loop and draw first bight in suspension lines thru hesitator loop. There shall be a 3/8-in. clearance between packing hook and hesitator loop. When stowing bight 1 thru 8, helper shall assist by holding container steady and by holding finished bight while next bight is being formed (Figure 29).

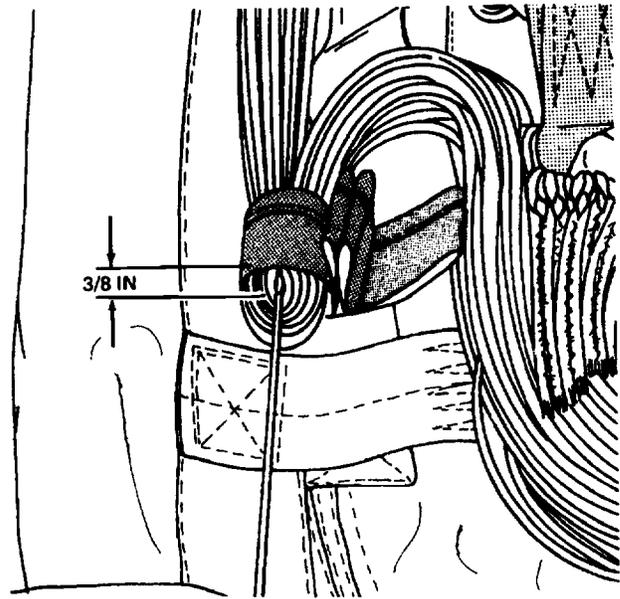


Figure 29. Insert Packing Hook Thru Hesitator Loop

6.2-5294C

g. Draw suspension lines and folded canopy toward container enough distance to let second suspension line bight to be formed. Draw suspension lines thru hesitator loop opposite first stow, maintaining 3/8-in. clearance between packing hook and hesitator loop (Figure 30).

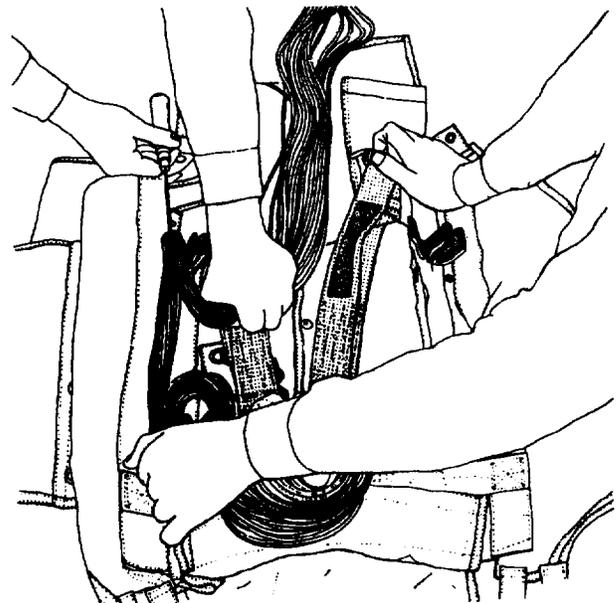
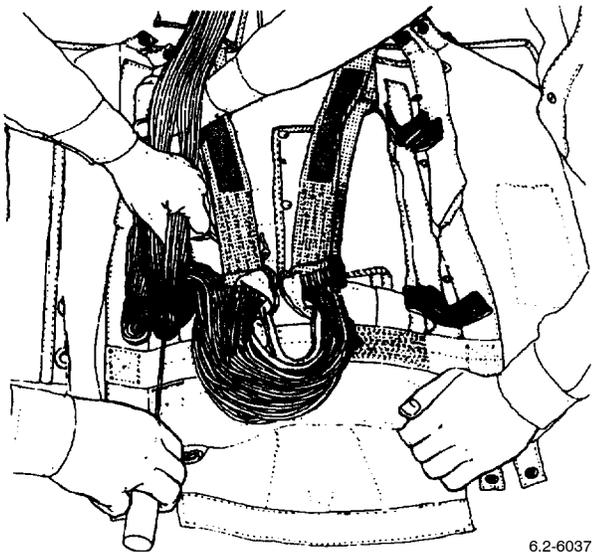


Figure 30. Draw Suspension Lines

6.2-5294D

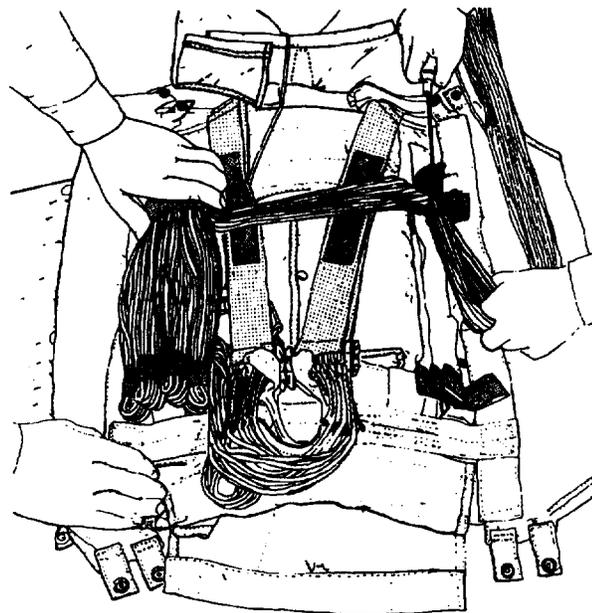
h. Third bight is formed in same manner as in previous steps. Bight pulled thru hesitator loop next to first bight stowed (Figure 31).



6.2-6037A

Figure 31. Form Third Bight

- i. Store bights 4 thru 8 in same manner as bights 1 thru 3.
- j. Helper shall route suspension lines across container and stow bight 9 in first hesitator loop across from hesitator loop 8. When stowing bights 9 thru 16, packer shall assist helper by holding container steady and by holding finished bight while next bight is being formed (Figure 32).



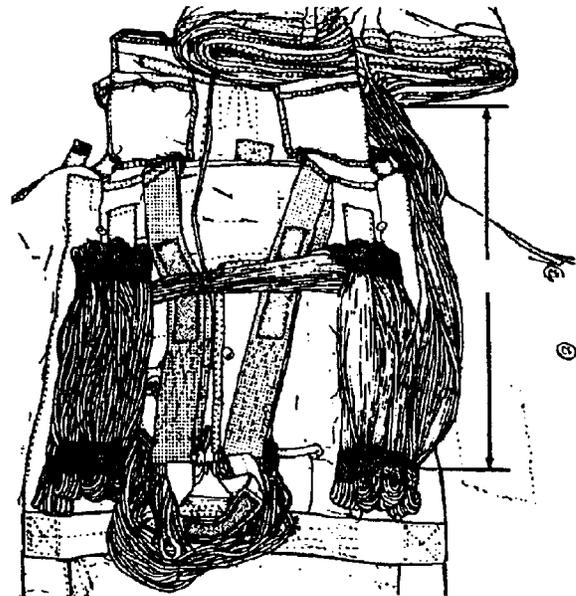
6.2-6037B

Figure 32. Helper Shall Route Suspension Lines Across Container

- k. Helper shall stow bights 10 thru 16 in same manner as bights 1 thru 8.

- l. As each stow is completed, ensure that suspension lines are not rotated or loose and there are no suspension lines left out of hesitator loops. Keep 3/8-in. clearance between packing hook and hesitator loop when stowing bights.

- m. Straighten all hesitator loops, using temporary locking pin. When suspension lines are in all hesitator loops, there shall be 21 ± 3 -in. between last stow and skirt hem (Figure 33). (QA)

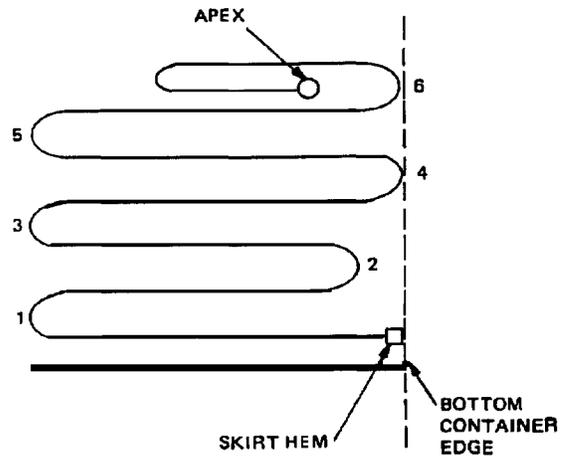


6.2-6037C

Figure 33. Straighten All Hesitator Loops

19. STOWAGE OF CANOPY.

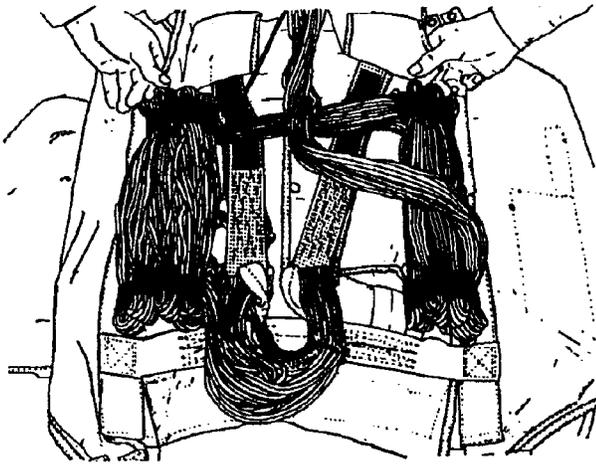
- a. Six folds shall be made when stowing canopy. Use following illustration as a guide while stowing canopy (Figure 34).



6.2-5971A

Figure 34. Making of Six Folds

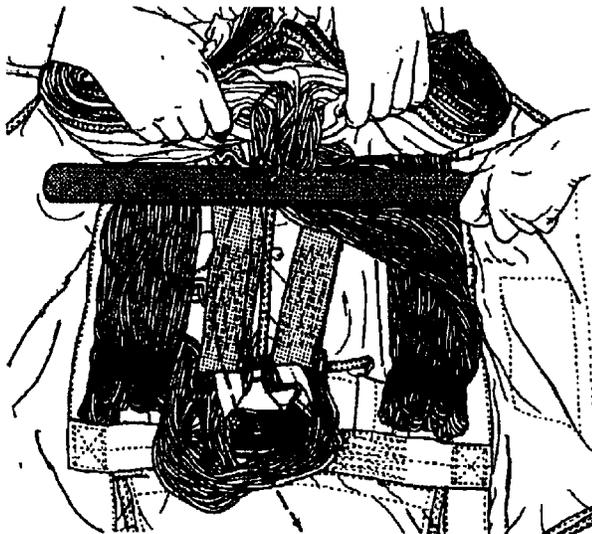
- b. Remove shot bags from canopy. (QA)
- c. Place riser protector flaps on top of risers (Figure 35).



6.2-5971B

Figure 35. Placement of Riser Protector Flaps

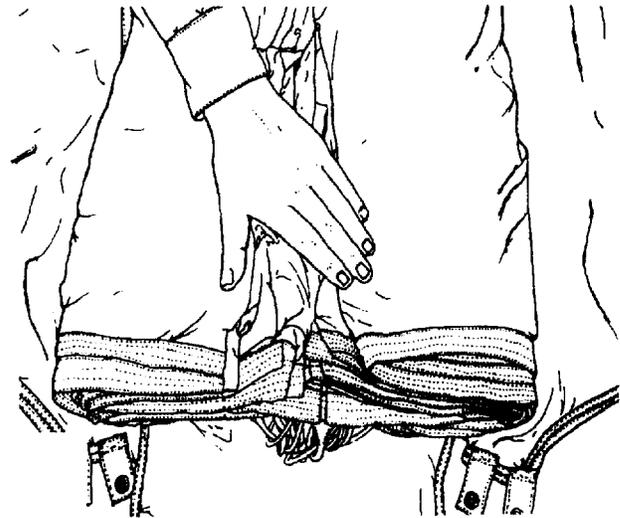
- d. Helper shall place long bar over suspension lines at middle of container. Packer shall grasp canopy skirt hem on each side of suspension lines and draw canopy across container (Figure 36).



6.2-5971C

Figure 36. Place Long Bar Over Suspension Lines

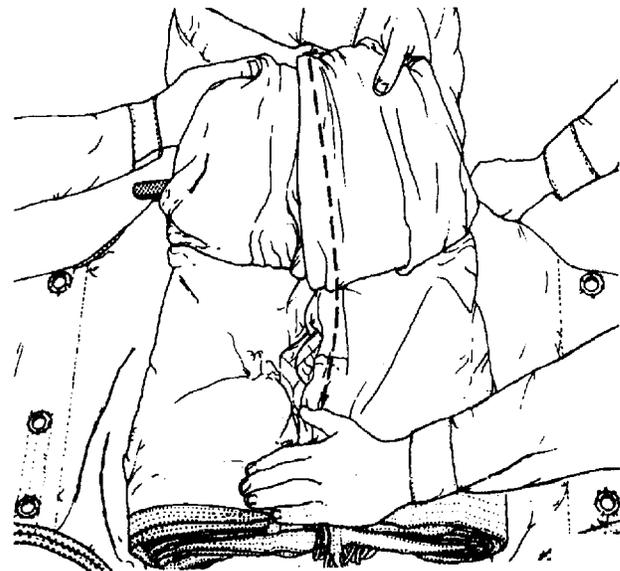
- e. Skirt hem shall be aligned with bottom of container edge. Allow folded canopy to spread $1\frac{1}{2} \pm 1/2$ -in. over side of container. It may be necessary to move long bar slightly forward to align skirt hem with container edge (Figure 37).



6.2-5971D

Figure 37. Align Skirt Hem With Bottom of Container

- f. To make first and second folds, helper shall remove bar from between canopy and container and place it on top of canopy, parallel with upper container edge. Packer shall grasp canopy one container length from long bar and draw it across container (Figure 38).



6.2-5971E

Figure 38. Make First and Second Folds

- g. Second fold shall be positioned slightly behind skirt hem. Sides of canopy shall spread $1\frac{1}{2} \pm 1/2$ -in. over sides of container (Figure 39).

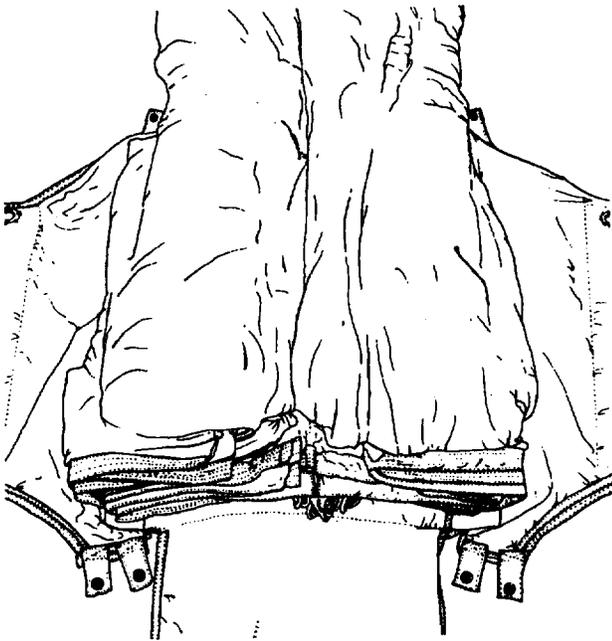


Figure 39. Position Second Fold Slightly Behind Skirt 6.2-5297A

h. To make third and fourth folds, helper shall use long bar in same manner as with first and second folds. Fourth fold is extended to align with skirt hem (Figure 40).

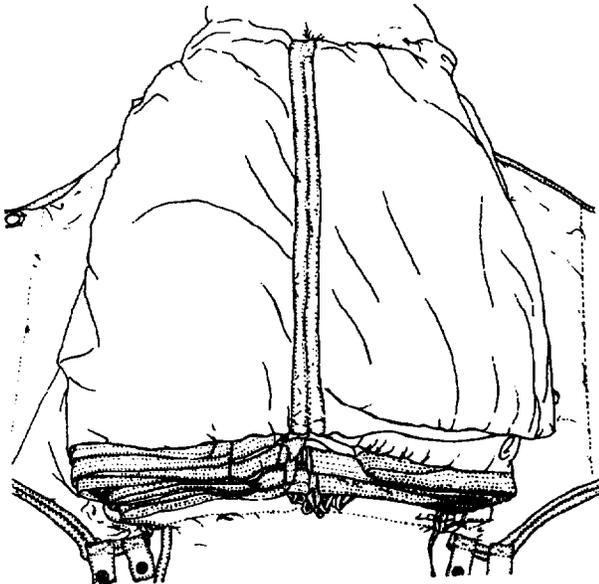


Figure 40. Make Third and Fourth Folds 6.2-5297B

i. Continue accordion folding remainder of canopy onto container, keeping $1\frac{1}{2} \pm \frac{1}{2}$ -in. overlap on sides of container. As apex of canopy is drawn close to container, pilot parachute shall be placed back onto packing table (Figure 41).

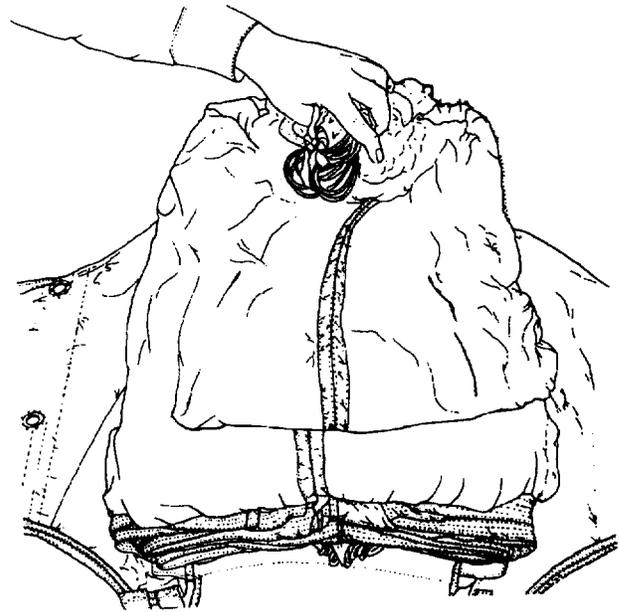


Figure 41. Continue Accordion Folding 6.2-5279C

j. When not enough canopy remains to continue folding, canopy shall be folded under 9 ± 2 -in. from apex (Figure 42).



Figure 42. 9-in. Fold Under From Apex 6.2-5297D

k. Folded under portion of canopy shall be positioned on top of canopy to form upper most fold (Figure 43).



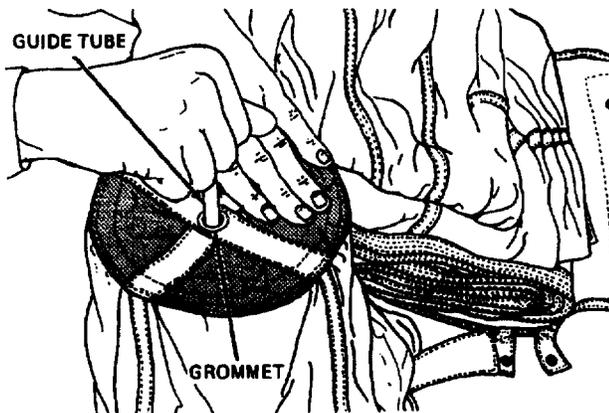
6.2-6038A

Figure 43. Positioned Folded Under Canopy to Form Upper Fold

l. Adjust canopy, as required, to obtain neat and square folds.

m. Inspect pilot parachute connector strap for entanglements, rotate container 90-degrees counterclockwise.

n. Position pilot parachute vertically on packing table and insert guide tube into grommet in crown of pilot parachute. Extend guide tube to bottom of pilot parachute and position over locking cone on spring baseplate (Figure 44).



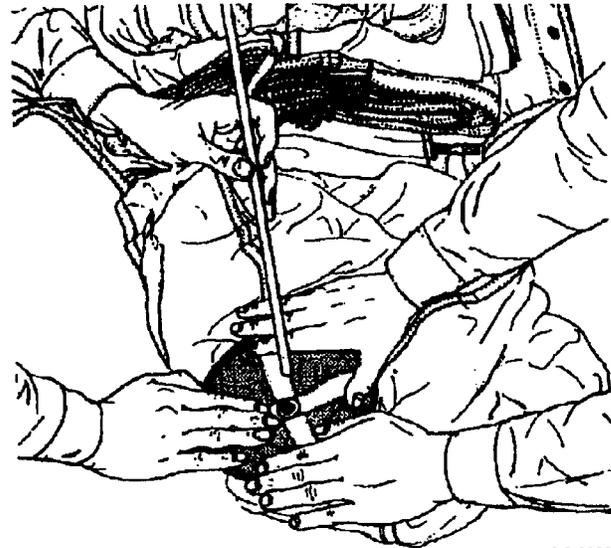
6.2-6038B

Figure 44. Position Pilot Parachute



Ensure pilot parachute cloth is not twisted around or entangled in compressed pilot parachute spring.

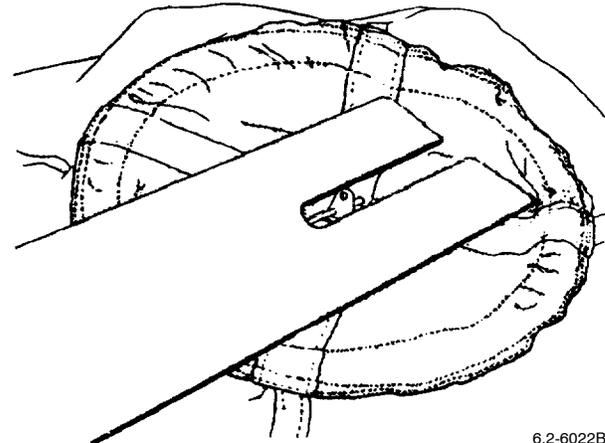
o. Compress pilot parachute spring and remove guide tube from locking cone. Locking cone shall protrude thru grommet (Figure 45).



6.2-6038C

Figure 45. Compress Pilot Parachute Spring

p. Insert temporary locking pin plate into bottom hole of locking cone to keep pilot parachute compressed (Figure 46).

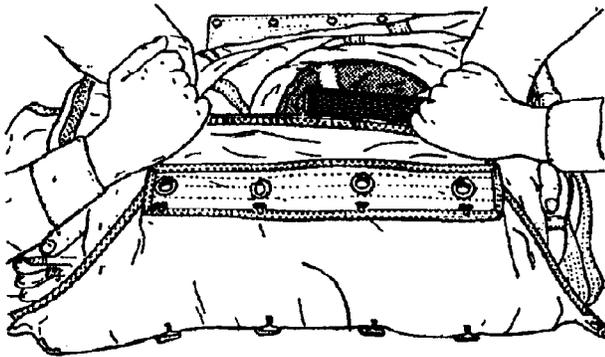


6.2-6022B

Figure 46. Insert Temporary Locking Pin Plate

20. CLOSING OF CONTAINER.

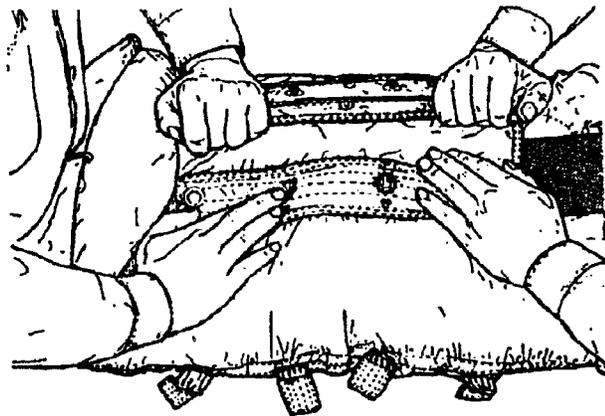
a. Packer and helper shall pull side flap with locking cone over canopy and pilot parachute and align second grommet from bottom container edge over locking cone in pilot parachute. Roll pilot parachute cloth under outer edge of crown (Figure 47).



6.2-5300A

Figure 47. Pull Side Flaps Over Locking Cone

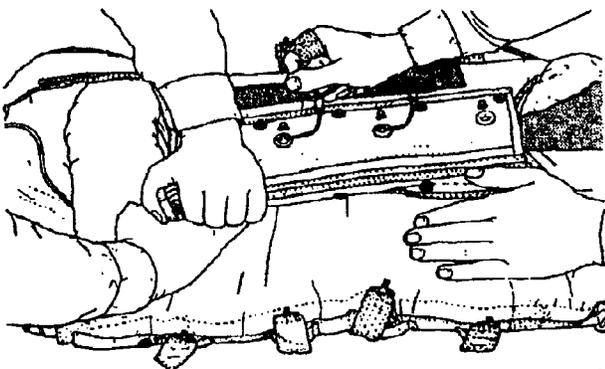
b. Packer and helper shall pull side flap with grommets over canopy while holding side flap with locking cone in place. Keep canopy movement to a minimum (Figure 48).



6.2-5300B

Figure 48. Pull Side Flap with Grommets Over Canopy

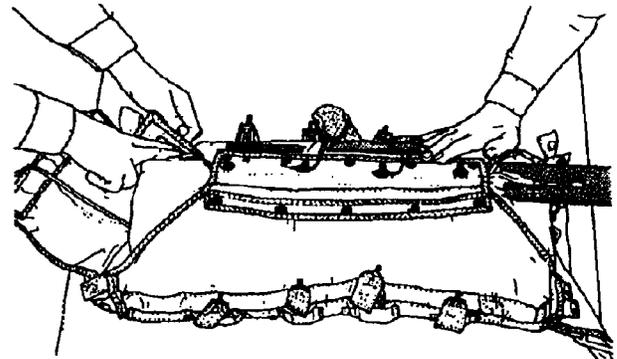
c. Place grommets over locking cones and insert two temporary locking pins towards top end flap (Figure 49).



6.2-5300C

Figure 49. Place Grommets Over Locking Cones

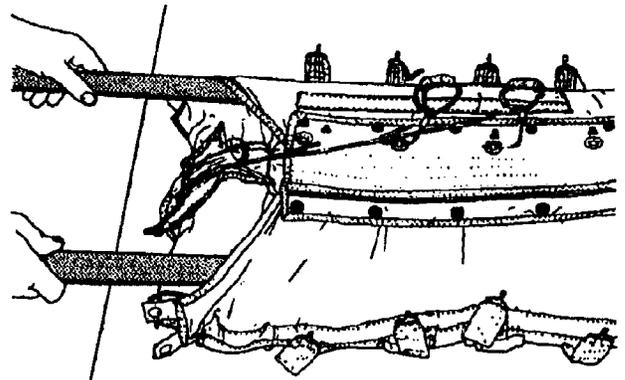
d. Remove temporary locking pin plate from pilot parachute locking cone and adjust canopy at both ends of container (Figure 50).



6.2-5300D

Figure 50. Remove Temporary Locking Pin Plate

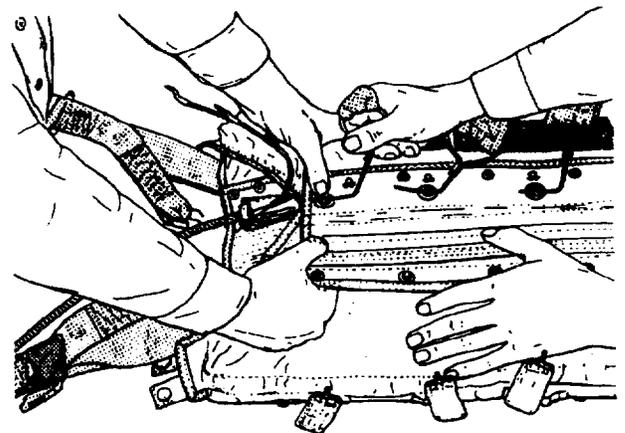
e. Packer shall tuck top end flap under side flaps using two long bars inserted in pockets (Figure 51).



6.2-5300E

Figure 51. Tuck Top End Flap Under

f. Packer shall place side flap grommets over top end flap locking cone as helper inserts temporary locking pin toward top end flap (Figure 52).



6.2-6039

Figure 52. Place Side Flap Grommets Over Top End Flap

g. Place side flap grommets over bottom end flap locking cone. Insert temporary locking pin toward top end flap (Figure 53).

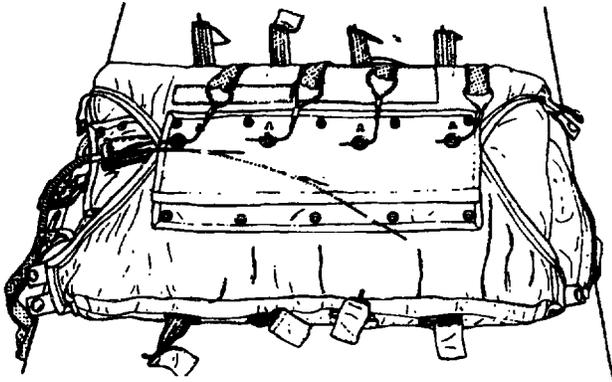


Figure 53. Place Side Flap Grommets Over Bottom End Flap

- h. Push riser protector flaps firmly into container.
- i. Remove wrinkles in corners of container using packing fid.

WARNING

Use of ripcord pins as alignment aids during installation may cause bending of pins and result in excessive pull forces.

j. Helper shall remove temporary locking pin from locking cone nearest ripcord housing and packer shall insert top ripcord pin (Figure 54). (QA)

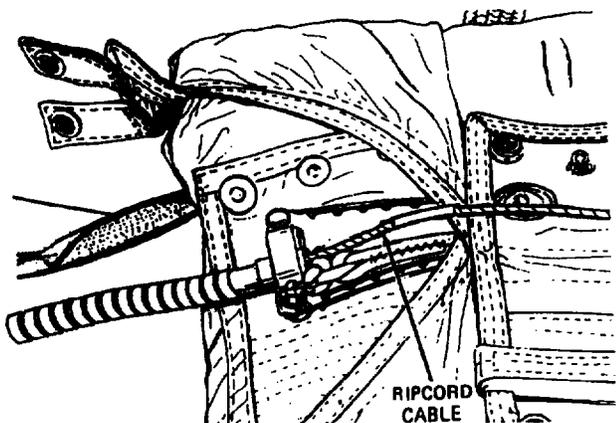


Figure 54. Remove Temporary Locking Pin

k. Working from packer's end to helper's end remove temporary locking pins and at same time insert ripcord pins.

WARNING

Ripcord pins must be centered in locking cones.

l. Ensure ripcord pins are centered in locking cones so that shoulder of ripcord pin is not jammed against hole in locking cone, but extends more than 1/2-in beyond cone (Figure 55).



Figure 55. Ensure Ripcord Pins are Centered

- m. Attach spring opening assemblies to container eyes.
- n. Turn container over so lapbelt harness faces up and secure eight corner keepers to fasteners on container; then secure six backpad keepers to container fasteners (Figure 56).

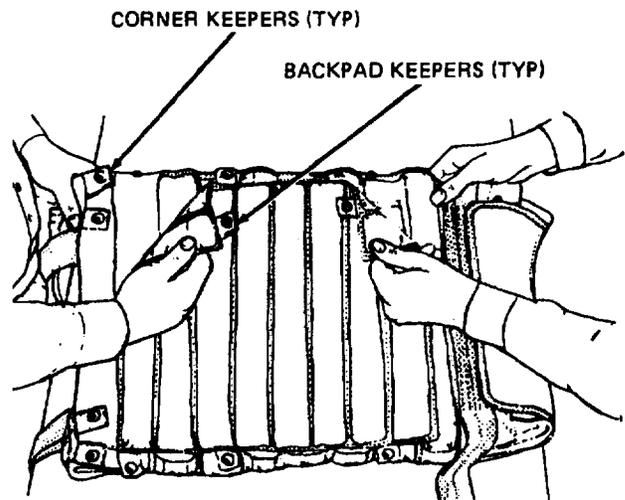


Figure 56. Turn Container Over

o. Turn container over so ripcord pins face up.

21. SURVIVAL KIT ATTACHMENT.

22. ATTACHMENT OF STANDARD SOFT PACK (SSP) AND VENTILATED SEAT PAN.

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Ensure that ventilated seat pan and SSP have been inspected and secured together.
- b. Place ventilated seat pan and SSP on table with soft pack facing down.
- c. Place parachute container upside down on table with bottom of parachute container facing rear of seat pan and soft pack. Engage slide fastener (Figure 57).

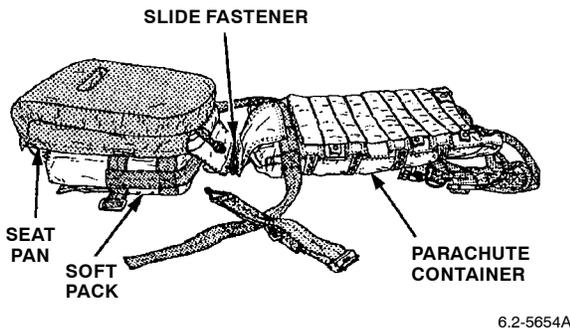


Figure 57. Place Parachute Container Upside Down

- d. Rotate parachute container over on top of seat pan and SSP.
- e. Reeve both paraft retainer straps thru slots in sides of seat pan (Figure 58).

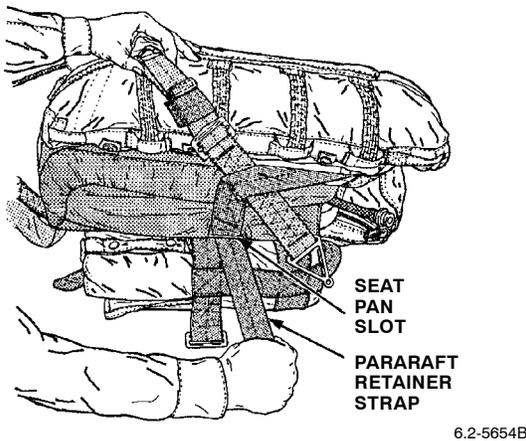


Figure 58. Reeve Both Straps thru Slots

- f. Reeve paraft retainer straps thru adapters on sides of SSP. Pull strap tight to remove slack, and reeve retainer straps back thru adapters. Leave 1 to 1 1/2-in. of strap above adapter. Tack both edges of each strap to strap beneath with two turns of size 6 thread, single and waxed; tie off (Figure 59).

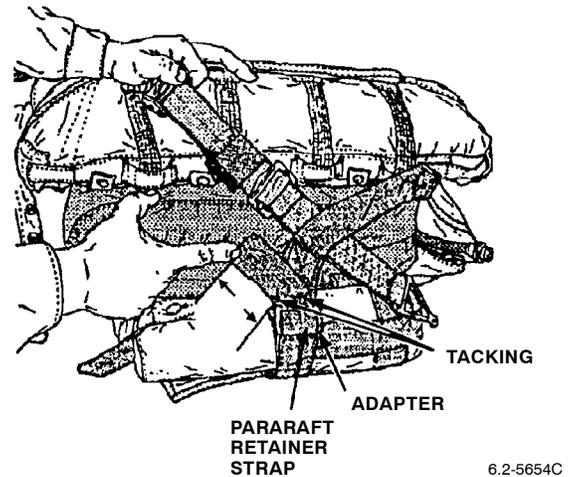


Figure 59. Reeve Retainer Straps thru Adapters

23. RIPCORDER PIN PULL CHECK.

- a. Insert ripcord pinlock on bottom ripcord pin.
- b. Install ripcord grip in retainer and attach spring scale to ripcord grip with a nylon cord.
- c. Apply a straight steady pull and remove ripcord grip from retainer. The force required to remove the grip from the retainer clip is 15 ± 5 lbs. (QA)
- d. Reset scale. Apply a straight, steady force to the ripcord grip until initial movement of bottom ripcord pin is observed. Maximum allowable force is 27 lbs. (QA)

WARNING

Ripcord pinlock must be removed.

- e. Remove ripcord pinlock. (QA)
- f. If necessary, reposition ripcord pins so they are centered in locking cones with shoulder of each pin extending more than 1/2-in. beyond cone.

24. RETENTION TIE RIPCORD PIN AND TACKING RIPCORD HOUSING CLIP.

a. Tie last ripcord locking pin and tack ripcord housing clamp as follows:

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

(1) Loop a 12-in. length size E thread, single and waxed, under bottom ripcord pin. Secure by bringing thread ends together and forming 3 to 5 half-hitches above ripcord pin ferrule. Top off with a binder knot. Trim excess thread 1/2-in. from knot (Figure 60).

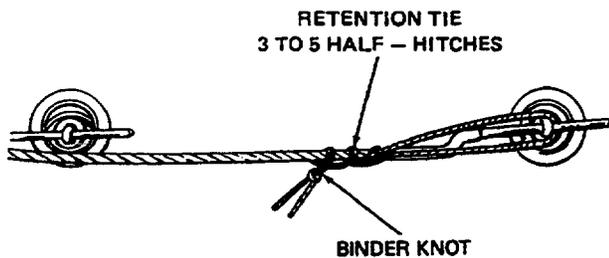


Figure 60. Securing of Thread 6.2-6044A

(2) Insert ripcord housing clip into webbing loop attached to riser (Figure 61).

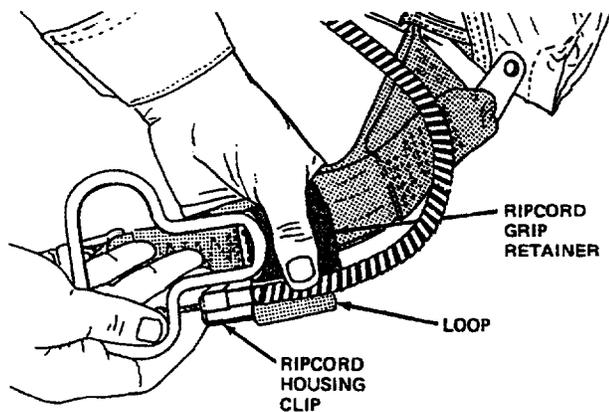
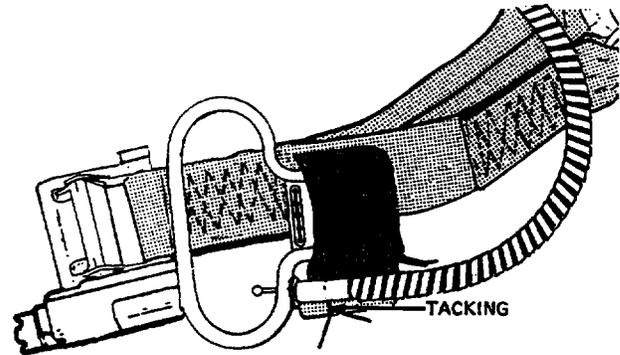


Figure 61. Insert Ripcord Housing Clip 6.2-6044B

(3) Tack thru loop and thru hole in housing clip with one turn size E thread, single and waxed; tie off. Insert ripcord grip into retainer (Figure 62). (QA)



6.2-6044C

Figure 62. Tack thru Loop and thru Hole

(4) Snap ripcord pin protector flap and base plate flap closed.

25. FINAL CHECKOUT.

- a. Account for all packing tools.
- b. Examine packed parachute for general condition.
- c. Packer shall complete and sign Parachute Record (OPNAV 4790/101). (QA).
- d. QA inspector shall examine completeness and accuracy of all entries on Parachute Record (OPNAV 4790/101).
- e. QA inspector shall sign Parachute Record (OPNAV 4790/101).
- f. Send a (legible) copy of new Parachute Record to: Commander, Code 461000D, NAVAIRWARCENWPN DIV, 1900 N Knox Road Stop 6206, China Lake, CA 93555-6106.

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INTERMEDIATE AND DEPOT MAINTENANCE
REPAIR PROCEDURES
NB-7 PERSONNEL PARACHUTE ASSEMBLY
PART NO. 566AS100-11 and 566AS100-14

List of Effective Work Package Pages

<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Chg.</u> <u>No.</u>
1 thru 12	9					

Reference Material

Common Repairs	WP 004 00
Organizational Repair Procedures, NB-7 Personnel Parachute Assembly	WP 012 01
Parachute Loft Requirements/Administration	WP 003 00
Support Equipment	WP 005 00

Alphabetical Index

<u>Title</u>	<u>Page</u>
Back Pad Repair	11
Canopy Assembly Repairs	3
Replacement of Canopy Assembly	4
Container Assembly Repairs	7
Replacement of Clamp Base Assembly and/or Locking Cone on Container Top Flap	8
Replacement of Clamp Release Lanyard	8
Replacement of Container	9
Replacement of Lapbelt Assembly	9
Replacement of Slide Fastener on Pararaft Flap Assembly	8
Cross-Connector Straps	10
Attachment of Canopy Assembly to Risers and Connector Straps	10
General	10
Replacement of Cross-Connector Straps	10
Introduction	2
Pilot Parachute and Connector Strap Repairs	2
Replacement of Pilot Parachute Connector Strap	3
Replacement of Pilot Parachute Connector Strap Loose or Broken Tacking	3
Replacement of Pilot Parachute Loose or Broken Tacking (Plate Assembly)	3
Replacement of Pilot Parachute	2
Replacement of MS22021-1 Connector Link (Speed Link) with MS22002-1 (Double "L") Connector Link	11
Ripcord Assembly Repairs	6
Replacement of Housing Release Clamp Spacer	7
Replacement of Ripcord Assembly	7
Replacement of Ripcord Grip Retainer	6
Riser Assembly Repairs	5
Installation of Parachute Harness Sensing Release Units	5
Replacement of Canopy Release Fitting	5
Replacement of Riser Assembly	6

Record of Applicable Technical Directives

None

1. INTRODUCTION.

a. This work package (WP) contains instructions for maintenance, repair, replacement, and fabrication of various parachute parts or subassemblies to ensure that proper items of equipment remain in a ready-for-issue (RFI) status. Selected repairs shall be documented on the Parachute Record. For common repairs refer to WP 004 00.

2. PILOT PARACHUTE AND CONNECTOR STRAP REPAIRS.

a. Repair of the pilot parachute and/or connector strap is limited to the following:

- (1) Cleaning of contaminated areas.
- (2) Replacement of loose or broken tacking.

b. Replace pilot parachute and/or connector strap for any of the following:

- (1) Service/total life has expired per WP 012 02.
- (2) Seam separation and loose or broken stitching (yarn separation is acceptable) that may affect the safe operation of the parachute assembly.
- (3) Holes or tears over 1-in. in diameter or length and more than five holes or tears per pilot parachute.
- (4) Pilot parachute spring is broken or distorted.
- (5) Pilot parachute locking cone or grommet is loose or damaged.
- (6) Connector strap finished length is incorrect.

3. REPLACEMENT OF PILOT PARACHUTE.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

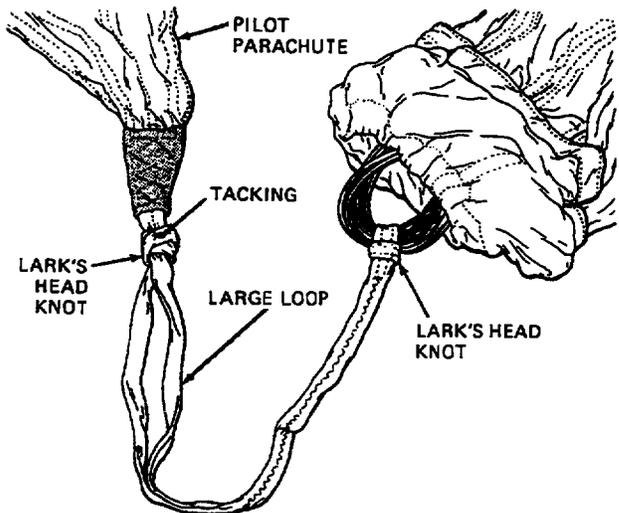
a. Inspect replacement pilot parachute as follows:

- (1) Fabric surfaces, and seams for cuts, tears, burns, fraying, and loose or broken stitching.
- (2) Vane material for cuts, tears, burns, fraying, and deterioration.
- (3) Seam area at crown for seam separation.
- (4) Spring assembly for distortion.
- (5) Loose or broken tackings (4 places) at bottom of coil spring.

b. Remove tacking at lark's head knot and then remove pilot parachute.

c. Pass large loop of connector strap thru loop in pilot parachute. Form a lark's head knot by passing entire pilot parachute thru loop on connector strap and pull tight (Figure 1).

d. Tack lark's head knot with two turns of size 6 thread, single and waxed; tie off (Figure 1). (QA)



6.2-5004

Figure 1. Pilot Parachute and Connector Strap Removal and Replacement

e. Mark date placed in service on pilot parachute. Make proper entries on Parachute Record (OPNAV 4790/101).

4. REPLACEMENT OF PILOT PARACHUTE CONNECTOR STRAP.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Inspect replacement connector strap for cuts, fraying, and loose or broken stitching.
- b. Measure length of unattached connector strap. Proper length is 23 1/2 ± 1/2-in.
- c. Grasp a suspension line at canopy apex and then count and hold 14 consecutive lines.
- d. Pass small loop end of connector strap around apex lines. Form a lark's head knot by passing large loop end of connector strap thru small loop end and pulling tight (Figure 1).
- e. Pass large loop end of connector strap thru loop in pilot parachute. Form a lark's head knot by passing entire pilot parachute thru large loop of connector strap and pull tight (Figure 1).
- f. Tack lark's head knot at pilot parachute with two turns of size 6 thread, single and waxed; tie off (Figure 1). (QA)
- g. Mark date placed in service on connector strap. Mark proper entries on Parachute Record (OPNAV 4790/101).

5. REPLACEMENT OF PILOT PARACHUTE CONNECTOR STRAP LOOSE OR BROKEN TACKING.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Remove broken tacking or completely remove loose tacking.
- b. Pull lark's head knot tight.
- c. Tack lark's head knot at pilot parachute with two turns of size 6 thread, single and waxed; tie off. (QA)

6. REPLACEMENT OF PILOT PARACHUTE LOOSE OR BROKEN TACKING (PLATE ASSEMBLY).

Material Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Remove broken tacking, or completely remove loose tacking.

NOTE

The plate assembly is attached at the base of the coil spring.

- b. Locate the four holes in the plate assembly within the pilot parachute fabric.

- c. Tack thru holes with two turns of size 6 thread, doubled and waxed; tie off.

7. CANOPY ASSEMBLY REPAIRS.

- a. For canopy service life, refer to WP 012 02.

8. REPLACEMENT OF CANOPY ASSEMBLY.

Support Equipment Required

Part Number	Nomenclature
Refer to WP 005 00	Temporary Locking Pin
—	Torque Screwdriver

Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

NOTE

For Double “L” Connector Link, refer to Paragraph 28 for disassembly, assembly, and inspection instructions.

- a. Remove pilot parachute and connector strap from vent lines. Retain for reinstallation.
- b. Remove four-line release rigging from connector links and then remove lanyard from flutes.
- c. Remove connector link yoke and plate assemblies.
- d. Remove connector links from riser loops and remove connector straps. Reinstall yoke and plate assemblies.
- e. Dispose of canopy per current supply directives.
- f. Lay out replacement canopy and stretch it to its full length on the packing table.
- g. Attach tension strap hook to canopy vent lines.
- h. Locate gore 28 (nameplate gore) and place uppermost in center of packing table.
- i. At skirt hem, separate suspension lines into two equal groups with lines 1 thru 14 on packer’s side and 15 thru 28 on helper’s side. Grasping each group of lines, walk from skirt hem to connector links removing any dips and twists between two groups (Figure 2).



1203-2

Figure 2. Arrangement and Orientation of Suspension Lines on Connector Links

- j. Place connector link holding lines 1 thru 7 on top of connector link holding lines 8 thru 14. Place connector link holding lines 22 thru 28 on top of connector link holding lines 15 thru 21. Insert tension hooks into connector links and insert hooks into packing table (Figure 2).
- k. Pull suspension lines taut and adjust apex.
 - l. Check suspension line continuity on left side of gore 28. Packer shall grasp line 1 at skirt hem and raise to a sufficient height to ensure line is free of dips and twists. Continue this procedure with lines 2 thru 14 (Figure 2). Helper shall be positioned at connector links to check lines selected by packer.
 - m. Check suspension line continuity on right side of gore 28. Packer shall grasp line 28 at skirt hem and raise to a sufficient height to ensure line is free of dips and twists. Continue this procedure with lines 27 thru 15 (Figure 2). Helper shall be positioned at connector links to check lines selected by the packer.
 - n. Inspect four-line release anchor loops for proper attachment to lines 3 and 26. Measure 30 ± 1/2-in. above upper connector link bar. Anchor loops must be attached with 2-in. of zigzag stitching.
 - o. Inspect canopy assembly per WP 012 02.
 - p. Record any damage on canopy damage chart per WP 003 00. (QA)
 - q. Reattach pilot parachute and connector strap per Paragraph 5.
 - r. Lay out riser assembly and connector straps on packing table at connector links. Riser fasteners shall face up.
 - s. Remove connector links from tension hooks. Remove tension hooks from packing table.
 - t. Remove connector link yoke and plate assemblies from bottom connector links.
 - u. Insert bottom connector links thru loop in each end of connector strap and then thru loops in bottom risers.
 - v. Reattach yoke and plate assemblies to bottom connector links ensuring knurled portions of plate face up and screw-heads face outboard.

w. Remove connector link yoke and plate assemblies from top connector links.

x. While maintaining continuity, slide suspension lines onto a temporary locking pin or rod.

y. Insert connector links thru loop in each end of connector strap and then thru loop in top risers.

CAUTION

Ensure that clove-hitch and half-hitch at ends of suspension lines do not separate during handling

z. Reinstall suspension lines onto connector links.

aa. Reattach yoke and plate assemblies to top connector links ensuring knurled portion of plate faces up and screw-heads face outboard.

ab. Insert tension hooks into connector links and then apply tension to canopy.

ac. Perform suspension line continuity check as in step l and m.

ad. Tighten screws on top and bottom connector links to a torque value of 20 to 25 in-lbs. (QA)

ae. Apply torque seal to each connector link screwhead.

af. Mark date placed in service on canopy assembly. Make proper entries on Parachute Record (OPNAV 4790/101).

ag. Rig four-line release lanyards refer to WP 004 00.

9. RISER ASSEMBLY REPAIRS.

a. Repair of the riser assembly is limited to the following:

- (1) Cleaning of contaminated areas.
- (2) Repair of stitching if three or less stitches are loose or broken.
- (3) Replacement of four-line release flutes.
- (4) Replacement of ripcord grip retainer.
- (5) Replacement of retainer strap assemblies

b. Replace riser assembly for any of the following:

- (1) Service/total life has expired per WP 012 02.
- (2) Cuts, tears, or holes in harness webbing.
- (3) Loose or broken stitching in excess of three stitches.
- (4) Twists, fading, wear, fusing, fraying, burns, contamination, or abrasion.

10. INSTALLATION OF PARACHUTE HARNESS SENSING RELEASE UNITS.

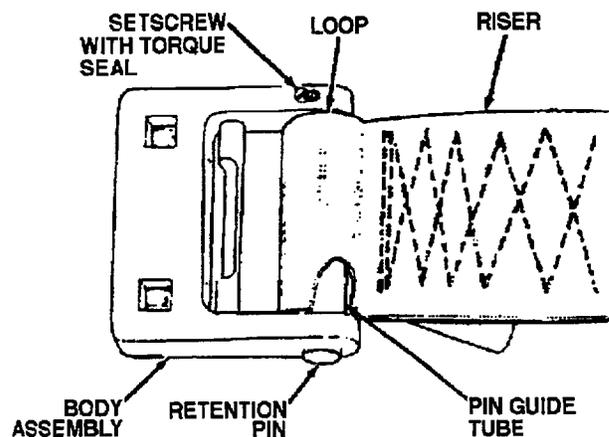
a. Install per WP 024 01 or install canopy release.

11. REPLACEMENT OF CANOPY RELEASE FITTING.

Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound

a. Remove setscrew on underside of fitting and slide retention pin out (Figure 3). Remove retention pin and pin guide tube.



6.2-5090

Figure 3. Canopy Release Fitting Installation

b. Insert pin guide tube into loop on riser.

c. Insert riser loop into release body. Ensure that release body is properly positioned for mating with release adapter. Insert retention pin thru pin guide tube.

d. Insert setscrew in hole located on underside of release body (Figure 3) and tighten.

e. Apply torque seal to screwhead using red lacquer.

12. REPLACEMENT OF RISER ASSEMBLY.

Materials Required

Specification or Part Number	Nomenclature
------------------------------	--------------

F-900 Torque Seal (Color Optional)	Sealing Compound
------------------------------------	------------------

- a. Remove ripcord assembly from riser.
- b. Remove canopy releases from risers per WP 012 01.
- c. Remove four-line release tackings from flutes and carefully remove release lanyards from flutes. Insert temporary locking pin into last four-line release daisy chain.
- d. Remove connector link yoke and plate assemblies.
- e. Slide riser loops off connector link bar.
- f. Reinstall yoke and plate assemblies.
- g. Ensuring suspension line continuity is maintained (Figure 2), insert connector links onto tension hooks.
- h. Inspect replacement risers per WP 012 02.
- i. Lay out replacement risers on packing table with fasteners facing up, and riser with ripcord grip retainer on packer's side.
- j. Remove connector link yoke and plate assemblies from bottom connector links.
- k. Insert bottom connector links into bottom riser loops.
- l. Reinstall yoke and plate assemblies to bottom connector links ensuring knurled portions of plate face up and screw-heads face outboard.
- m. Remove connector link yoke and plate assemblies from top connector links.
- n. Insert top connector links into top riser loops.
- o. Reinstall yoke and plate assemblies to top connector links ensuring knurled portions of plate face up and screw-heads face outboard.
- p. Perform suspension line continuity check (Figure 2).

q. Tighten screws on top and bottom connector links to a torque value of 20 to 25 in-lbs. (QA)

r. Apply torque seal to each connector link screwhead.

s. Using a bodkin of equal tool, insert and pull release lanyard pull loops thru proper lanyard flute. Pull loops should extend completely thru flute with top of loops butted up against lower edge of flute.

t. Remove temporary locking pins from last four-line release daisy chains.

u. Tack release lanyard to flute with one turn of size FF thread, single and waxed. Tacking shall pass thru outer cover of flute, thru the release lanyard, thru and around last daisy chain loop, and then back thru flute; tie off.

v. With lanyard pull loop fully extended, tack riser together. Tack at center of riser and 1/2-in. above bottom of lanyard pull loop with one turn of size FF thread, single and waxed; tie off. (QA)

w. Reinstall canopy release fittings per WP 012 01.

x. Mark date placed in service on identification and service life label.

13. RIPCORD ASSEMBLY REPAIRS.

14. REPLACEMENT OF RIPCORD GRIP RETAINER.

Support Equipment Required

Part Number	Nomenclature
DPP-50	Scale, Spring

Materials Required

Specification or Part Number	Nomenclature
60A116C10-1	Retainer, Ripcord Grip
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
V-T-295	Thread, Nylon Size 6, Type I or II, Class A

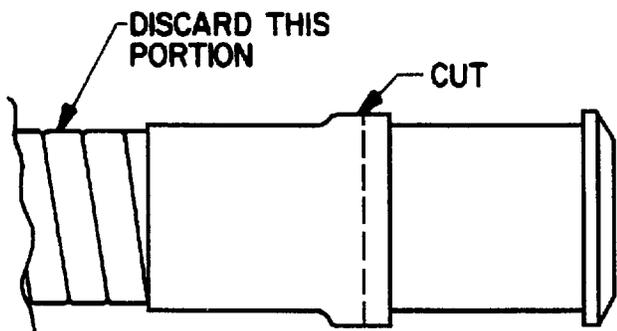
NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Remove retainer cover stitching and expose ripcord grip retainer.
- b. Remove ripcord grip retainer and stitching from riser.
- c. Position replacement retainer in same location as removed retainer and handstitch to riser with size 6 thread, doubled and waxed; tie off.
- d. Machine stitch retainer cover back to riser with size E thread.
- e. Perform ripcord grip pull test as follows:
 - (1) Fully seat ripcord grip in ripcord retainer.
 - (2) Set scale to zero. Attach spring scale to ripcord grip using nylon cord.
 - (3) Using a straight steady pull, remove grip from retainer. The pull force required to remove grip from retainer shall be 15 ± 5 lbs. (QA)
- f. If pull force is not within limits, use a pliers to adjust clip. Ensure plier jaws are covered with protective material. After adjustment, repeat ripcord grip pull test.

15. REPLACEMENT OF HOUSING RELEASE CLAMP SPACER.

- a. To manufacture the spacer, cut the end off of a scrap ripcord housing (Figure 4).



REMOVE ALL SHARP EDGES WITH A FILE

Figure 4. Spacer for Housing Release Clamp

6.2-599

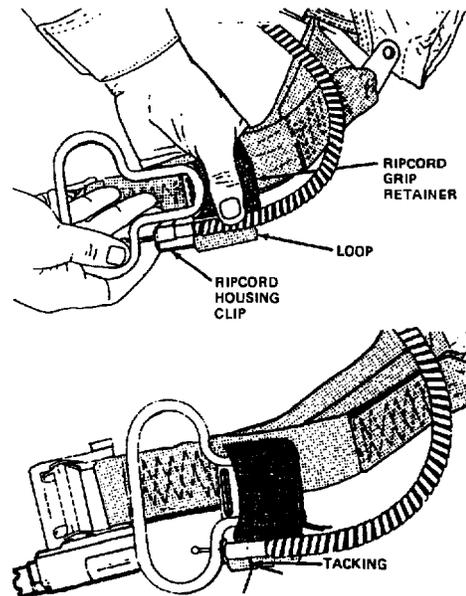
- b. A spacer may be fabricated to dimensions of power cable end fitting or it may be available from supply.

16. REPLACEMENT OF RIPCORD ASSEMBLY.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A

- a. Remove ripcord assembly and tacking from webbing loop.
- b. Inspect replacement ripcord assembly per WP 012 02.
- c. Insert ripcord housing clip into webbing loop attached to riser (Figure 5).



6.2-5649

Figure 5. Ripcord Assembly Replacement

- d. Insert ripcord grip into retainer.
- e. Tack thru loop and thru hole in housing clip with one turn of size E thread, single and waxed; tie off (Figure 5). (QA)

17. CONTAINER ASSEMBLY REPAIRS.

- a. Repair of the container assembly is limited to the following:
 - (1) Cleaning of contaminated areas.
 - (2) Replacement of grommets, locking cones, snap fasteners, and eyes.

(3) Repair of loose or broken stitching, holes, tears, and seam separations.

b. Replace container for any of the following:

(1) Service/total life has expired per WP 012 02.

(2) Broken or distorted container stiffeners.

(3) Deterioration, fading, abrasion, or excessive contamination.

18. REPLACEMENT OF CLAMP BASE ASSEMBLY AND/OR LOCKING CONE ON CONTAINER TOP FLAP.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A
60A113C16-1	Base Assembly, Clamp
60A113C24-1	-or- Cone, 0.410 Grip

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

a. Cut and remove stitching retaining base assembly and locking cone from top flap. Remove base assembly and locking cone.

b. If base assembly is to be replaced, remove clamp and screws and retain for reinstallation. If locking cone is to be replaced, leave clamp with ripcord housing/power cable housing attached to base assembly.

c. Using an adequate length of size 6 thread, doubled and waxed, to complete repair, tie an overhand knot 3 to 4-in. from end of thread for tie off when stitching is complete.

d. Position replacement base assembly/locking cone in exact location of damaged or missing base assembly/locking cone. Ensure that ripcord locking pin hole is aligned in same direction as that removed.

e. Start handstitching from inside of container at widest end of base assembly, using a running stitch thru each hole in the base assembly and applicable holes in locking cone.

Stitch to last hole in sequence; then stitch back around base assembly to starting hole. Tie off. Trim ends 1/2-in.

f. If base assembly was replaced, reinstall clamp, ripcord housing, and spacer.

19. REPLACEMENT OF SLIDE FASTENER ON PARARAF T FLAP ASSEMBLY.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
814AS807-1	Slide Fastener

a. Carefully remove stitching holding damaged slide fastener to pararaft flap assembly.

b. Place replacement slide fastener on pararaft flap assembly in same position as one removed.

c. Starting with bottom end of slide fastener, align slide fastener tape flush with edge of flap assembly and sew with 3 rows of stitching about 1/8-in. apart.

d. At top stop end of slide fastener remove any excess tape and sear.

20. REPLACEMENT OF CLAMP RELEASE LANYARD.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size A, Type I or II, Class A

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

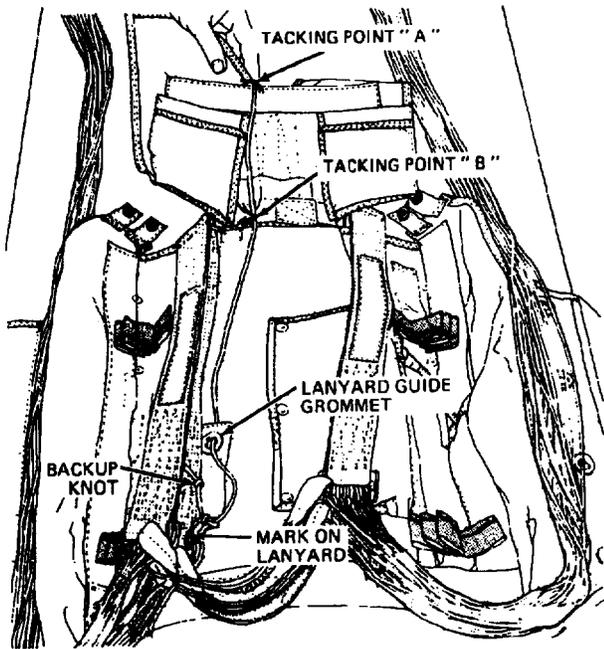
a. Completely remove clamp release lanyard and tackings from container.

b. Inspect replacement clamp release lanyard for loose or broken stitching, cuts, and contamination.

c. Mark lanyard 36-in. from end of pin.

d. Temporarily insert lanyard pin into base plate stud hole.

e. Rotate top container end flap onto packing table. Route release lanyard around left side of end flap. Tack release lanyard to end flap at point A allowing 1/8-in. slack in lanyard between locking pin and tacking. Tacking passes around lanyard not thru it. Use one turn of size A thread, single and waxed; tie off (Figure 6).



6.2-5890

Figure 6. Replacement of Clamp Release Lanyard

f. Route release lanyard along inside of container end flap. Tack lanyard to upper end of container 1-in. from left riser slot at point B allowing 1/8-in. slack between points A and B. Use one turn of size A thread, single and waxed; tie off (Figure 6).

21. REPLACEMENT OF CONTAINER.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 3, Type I or II, Class A
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A
PIA-C-5040	Cord, Nylon, Type III

NOTE

Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Remove tackings and survival kit if installed.
- b. Remove back pad and retain for reinstallation.
- c. Remove lapbelt fittings and spring opening assemblies.
- d. Remove spacer and manual ripcord housing from base plate.
- e. Remove releasable clamp lanyard.
- f. Dispose of container per supply directives. Retain serviceable hardware for future use.
- g. Inspect replacement container per WP 012 02.
- h. Measure length of spring opening assemblies. Proper length is 10 3/8 ± 1/4-in. measured with no tension from end of one hook to end of other hook. Crimp hooks to eyes on container centerline.
- i. Reattach back pad.
- j. Mark date placed in service on identification and service life label. (QA)
- k. Mark container label per WP 004 00.

22. REPLACEMENT OF LAPBELT ASSEMBLY.

Material Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

- a. Mark existing lapbelt location. Cautiously remove existing stitches which secure the lapbelt assembly to the container assembly.
- b. Remove lapbelt release assembly hardware and retain. Discard removed lapbelt assembly.
- c. Position replacement lapbelt assembly in same location as that removed. Hand tack in place to hold position while machine stitching (optional), stitch in place with size 6 thread, using a five point cross stitch pattern, 4-in. long, two places.
- d. Install removed lapbelt release hardware on replaced lapbelt assembly.

23. CROSS-CONNECTOR STRAPS.

24. GENERAL.

a. Repair of cross-connector straps is limited to cleaning of contaminated areas. Replace cross-connector straps if any other damage exists that may affect the safe operation of the parachute assembly.

25. REPLACEMENT OF CROSS-CONNECTOR STRAPS.

Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound

NOTE

For Double “L” Connector Link, refer to Paragraph 28 for disassembly, assembly, and inspection instructions.

- a. Remove connector link yoke and plate assemblies.
- b. Remove connector links from riser loops and then remove connector straps.
- c. Inspect replacement cross-connector straps for contamination, cuts, fraying, burns, loose or broken stitching, and proper length (16 ± 1/4-in.).
- d. Insert connector links thru loop in each end of connector strap and then thru loop in riser.
- e. Reattach yoke and plate assemblies to connector links ensuring knurled portion of plate faces up and screwheads face outboard.
- f. Tighten screws on connector links to a torque value of 20 to 25 in-lbs. Apply torque seal to each torqued connector link screwhead. (QA)
- g. Mark date placed in service on identification and service life labels.

26. ATTACHMENT OF CANOPY ASSEMBLY TO RISERS AND CONNECTOR STRAPS.

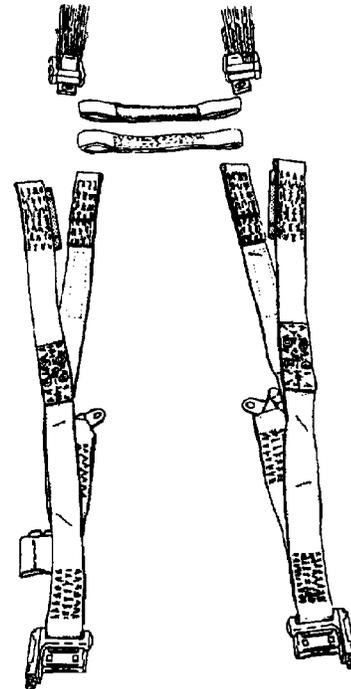
Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound

NOTE

For Double “L” Connector Link, refer to Paragraph 28 for disassembly, assembly, and inspection instructions.

a. Lay out riser assembly and connector straps on packing table at connector links. Riser fasteners shall face up with ripcord grip on packer’s side (Figure 7).



6.2-5277

Figure 7. Layout of Risers and Connector Straps

- b. Remove connector links from tension hooks and then remove tension hooks from packing table.
- c. Remove connector link yoke and plate assemblies from bottom connector links.
- d. Insert bottom connector links thru loop in each end of connector strap and then thru loops in bottom risers.
- e. Reattach yoke and plate assemblies to bottom connector links, ensuring knurled portions of plate face up and screwheads face outboard.
- f. Remove connector link yoke and plate assemblies from top connector links.
- g. Slide suspension lines onto temporary locking pin or rod.
- h. Insert connector links thru loop in each end of connector strap and then thru loop in top risers.

WARNING

Ensure that suspension line continuity is maintained at all times. Also ensure that the clove-hitch and half-hitch at the ends of the suspension lines have not separated during handling.

i. Reinstall suspension lines 3 thru 7 and 26 thru 22 onto connector links.

j. Reattach yoke and plate assemblies to top connector links ensuring knurled portion of plate face up and screw-heads face outboard.

k. Check suspension line continuity (Figure 2). (QA)

l. Tighten screws on top and bottom connector links to a torque value of 20 to 25 in-lbs. Apply torque seal to each connector link screwhead. (QA)

27. BACK PAD REPAIR.

a. Repair of the back pad is limited to the following:

- (1) Cleaning contaminated areas.
- (2) Replacement of snap fasteners.
- (3) Repair of holes, tears, and loose or broken stitching.

b. Replace back pad for any holes, tears, or other damage deemed beyond repair.

28. REPLACEMENT OF MS22021-1 CONNECTOR LINK (SPEED LINK) WITH MS22002-1 (DOUBLE "L") CONNECTOR LINK.

NOTE

New canopies received from supply may have the Double 'L' Connector Links installed.

Instructions for attachment of Firing Lanyards, PDVL's, Four-Line Release Systems, etc., will remain the same and will be contained in the application parachute manual.

Materials Required

Specification or Nomenclature	Part Number
MS22002-1	Connector Link (Double "L")
F-900 Torque Seal (Color Optional)	Sealing Compound
—	Torque Screwdriver
MIL-S-43243 (See WP 002 00)	Separator, Link or Equivalent

a. Remove yoke and plate assembly from parachute connector link, P/N MS22021-1.

b. Slide suspension lines from connector link onto a temporary locking pin or rod.

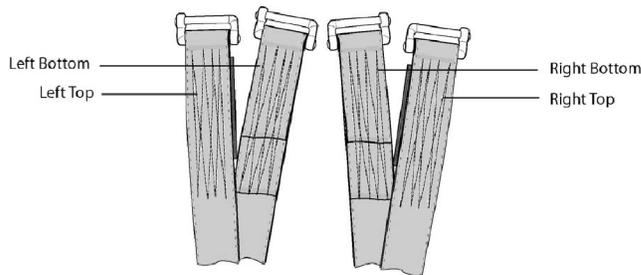
c. Remove cross-connector strap.

d. Slide riser loop off connector link bar and dispose of connector link, P/N MS22021-1.

e. Remove screws from the double "L" connector link, P/N MS22002-1 and separate the two halves of the link.

f. It may be necessary to use a separator device to separate the two halves of the connector link if a separator device is not available, loosen both screws of the connector link by four turns. Place a long bar between the connector link bars to hold the link in place. Using a rawhide or rubber mallet, tap one screw head and then the other screw head several times until the connector link bars separate.

g. Install suspension lines on the new connector link bar. The short leg of the "L" connector is to be positioned to the inside (Figure 8).



Riser (Typ) with Double "L" Connector Links Installed

Figure 8. Double "L" Connector Link Layout

- h. Install cross-connector strap.
- i. Slide riser loop onto opposite connector link bar.
- j. Mate both halves of the connector link together.
- k. Install screws (2 each).

NOTE

Screws must make a minimum of 6 full turns prior to applying torque.

- l. Check suspension line continuity. (QA)
- m. Tighten screws to a torque value of 15 in-lbs. (QA)

WARNING

Care must be taken when tightening screws as screwdriver may slip and cause minor injury.

NOTE

It may be necessary to check the torque value on each screw more than once due to the interference fit design feature of the connector link.

- n. Apply torque seal to both screw heads and allow to dry before proceeding with remainder of parachute packing.
- o. Repeat steps a through l on each riser group.
- p. Re-identify the parachute canopy by using an indelible black pen to cross out the existing part number and marking the new superceding part number per Illustrated Parts Breakdown (IPB) WP 012 04.

ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE

ILLUSTRATED PARTS BREAKDOWN

NB-7 PERSONNEL PARACHUTE ASSEMBLY

PART NO. 566AS100-11 and 566AS100-14

List of Effective Work Package Pages

<u>Page No.</u>	<u>Chg. No.</u>						
1	11	2 thru 5	9	6	11		

Reference Material

Intermediate and Depot Maintenance, Packing Procedures, NB-7 Personnel Parachute Assembly WP 012 02

Alphabetical Index

<u>Title</u>	<u>Page</u>
Introduction	1
Service/Total Life	1
Usable on Codes	1

List of Figures

<u>Title</u>	<u>Page</u>
NB-7 Personnel Parachute Assembly	2

Record of Applicable Technical Directives

None

1. INTRODUCTION.

a. This Work Package (WP) contains information for ordering and identifying parts for the NB-7 Personnel Parachute Assembly (Figure 1).

b. The following usable on codes apply to this WP:

A - E-2

2. USABLE ON CODES.

a. The usable on codes in this WP refer to the aircraft applications for the NB-7 Personnel Parachute Assembly.

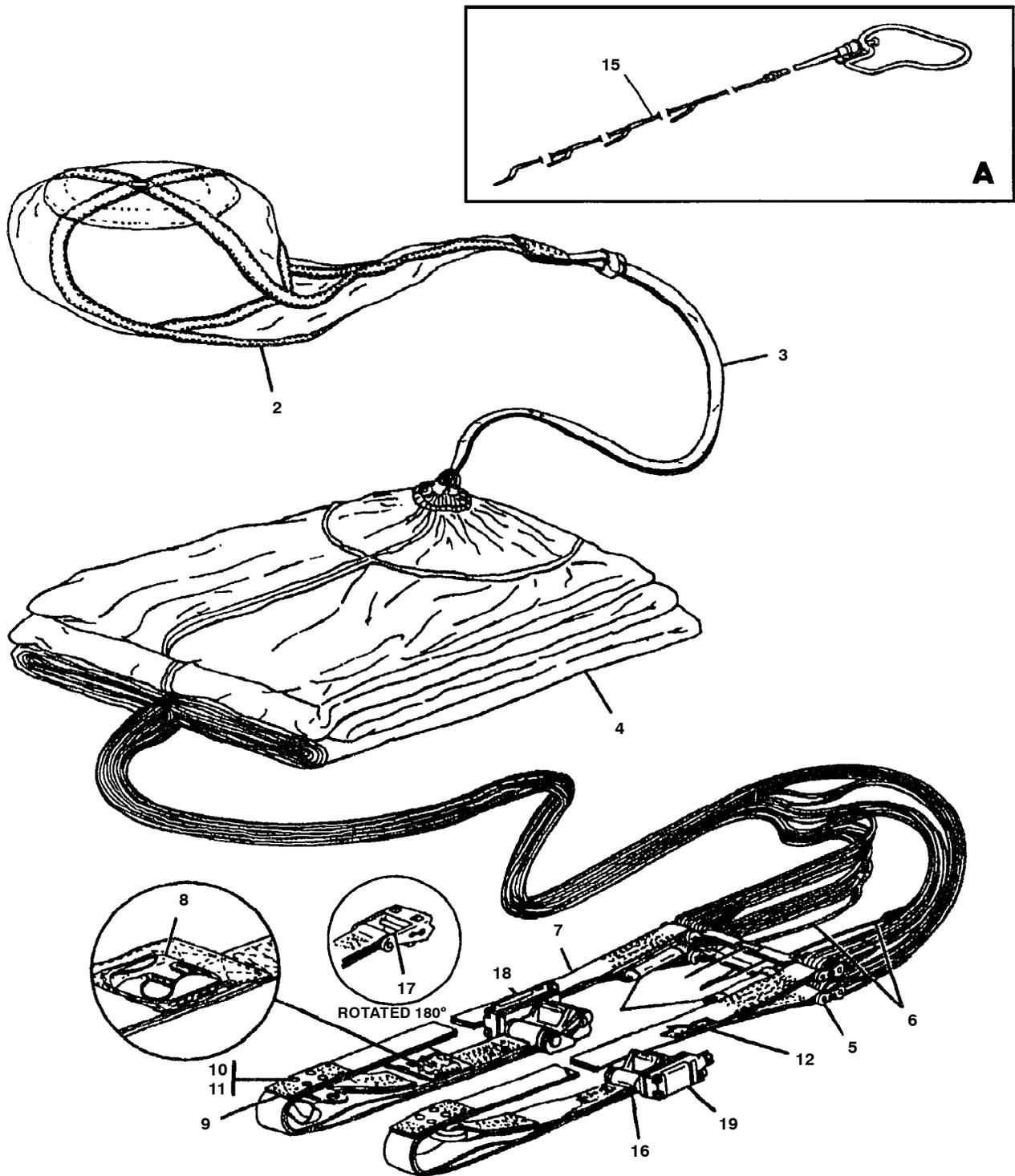
3. SERVICE/TOTAL LIFE.

a. The service/total life information is contained in WP 012 02.



6.2-6045A

Figure 1. NB-7 Personnel Parachute Assembly (Sheet 1 of 5)



2-5772B

Figure 1. NB-7 Personnel Parachute Assembly (Sheet 2 of 5)



INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SM&R CODE
	566AS100-11	PARACHUTE ASSEMBLY, COMPLETE, NB-7	1	A	AGOGG
	566AS100-14	PARACHUTE ASSEMBLY, COMPLETE, NB-7 /SEE NOTE 1/	1	A	AGOGG
1	711-07094	. SPACER/52497/NOTE 2/	1		PAGZZ
2	60A125E16-1	. PARACHUTE ASSEMBLY, PILOT	1		PCGZZ
3	666AS100-1	. STRAP, PILOT PARACHUTE CONNECTOR	1		PCGZZ
4	60A113E5-18	. CANOPY ASSEMBLY	1	*	PCGGG
	60A113E5-20	. CANOPY ASSEMBLY (WITH DOUBLE "L" CONNECTOR LINK INSTALLED)	1	*	PCGGG
5	MS22021-1	. . LINK, REMOVABLE CONNECTOR	4	*	PAGZZ
	MS22002-1	. . CONNECTOR LINK (DOUBLE "L")	4	*	PAGZZ
6	666AS101-2	. . LANYARD, FOUR LINE RELEASE	2		MGGZZ
7	60A116E7-16	. RISER ASSEMBLY	1		PCGGG
8	60A116C10-1	. . RETAINER, RIPCORDER GRIP	1		PAGZZ
9	60A116C8-2	. . STRAP ASSEMBLY	2		MGGGG
10	MS27980-8N	. . . FASTENER, EYELET	4		PAGZZ
11	MS27980-6N	. . . FASTENER, SOCKET	4		PAGZZ
12	676AS100-1	. . LABEL /NOTE 3/	4		XBGZZ
13	666AS102-5	. . FLUTE, FOUR-LINE RELEASE LANYARD	2		MGGZZ
14	677AS100-2	. STRAP, CONNECTOR	2		PCGGG
15	60A116C5-5	. RIPCORDER ASSEMBLY, PARACHUTE	1	*	PAGZZ
	60A116C5-3	. RIPCORDER ASSEMBLY, PARACHUTE, (USE UNTIL EXHAUSTED)	1	*	PAGZZ
16	990055-1	. RELEASE ASSEMBLY, CANOPY /99449/	2	*	PAOGG
	015-10307-5	. RELEASE ASSEMBLY, CANOPY /99449/ (USE UNTIL EXHAUSTED)	2	*	PAOGG
17	122-10935-3	. . SETSCREW /99449/	1		PAOZZ
18	852AS117-3	. SENSING RELEASE UNIT, PARACHUTE HARNESS MXU-746/P LEFT SIDE	1		AGGGG
19	852AS117-4	. SENSING RELEASE UNIT, PARACHUTE HARNESS MXU-747/P RIGHT SIDE	1		AGGGG
20	1979AS826-1	. RELEASE ASSEMBLY, LAPBELT /30003/	2	*	PAOZZ
	015-11365-1	. RELEASE ASSEMBLY, LAPBELT /99449/	2	*	PAOZZ
	990060-1	. RELEASE ASSEMBLY, LAPBELT /99449/	2	*	PAOZZ
21	60A113D6-1	. PAD ASSEMBLY, BACK	1		PAOGG
22	MS27983-1	. . FASTENER, BUTTON	12		PAGZZ
23	MS27983-2N	. . FASTENER, SOCKET	12		PAGZZ
24	60A116E2-44	. CONTAINER ASSEMBLY	1		PCGGG
25	60A116C12-6	. . LAPBELT ASSEMBLY	1		PCGZZ
26	MS27980-10B	. . FASTENER, EYELET	6		PAGZZ
27	60A113C24-1	. . CONE, 0.410 GRIP	1		PAGZZ
28	60A113D16-1	. . BASE ASSEMBLY, CLAMP	1		PAGZZ
29	MS27981-5B	. . FASTENER, EYELET	6		PAGZZ
30	MS27981-4B	. . FASTENER, STUD	6		PAGZZ
31	MS27981-1B	. . FASTENER, BUTTON	6		PAGZZ

Figure 1. NB-7 Personnel Parachute Assembly (Sheet 3 of 5)

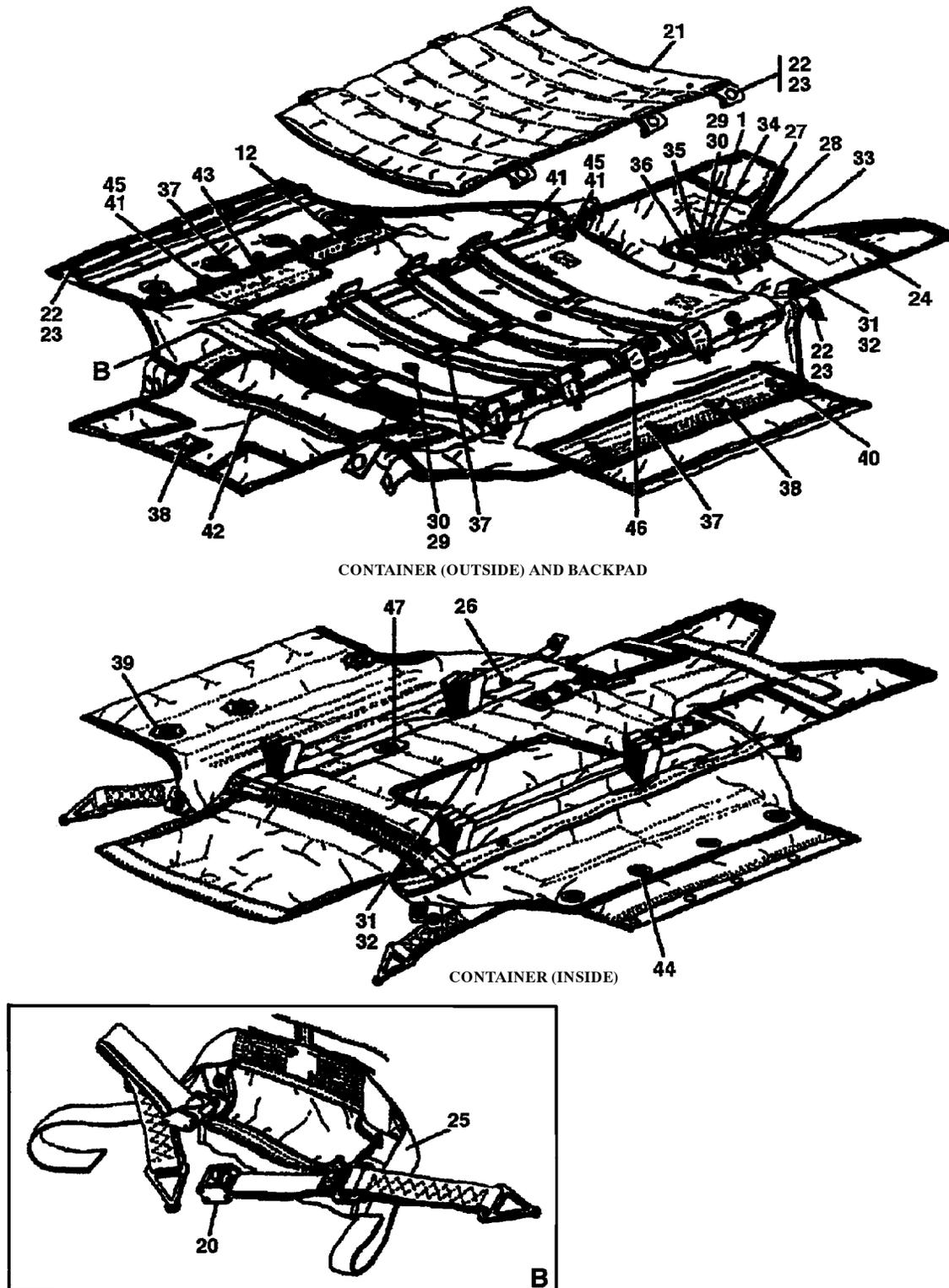


Figure 1. NB-7 Personnel Parachute Assembly (Sheet 4 of 5)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
32	MS27981-3B	.	.	FASTENER, SOCKET	.	.	.	.	6		PAGZZ
33	60A116D26-2	.	.	LANYARD	.	.	.	.	1		PCGZZ
34	60A116C25-1	.	.	STUD	.	.	.	.	1		PAGZZ
35	60A116C27-1	.	.	CLAMP, DOUBLE	.	.	.	.	1		PAGZZ
36	60A116C28-1	.	.	SCREW	.	.	.	.	1		PAGZZ
37	60A113C28-1	.	.	EYE	.	.	.	.	16		PAGZZ
38	60A113C31-1	.	.	CONE, 0.338 GRIP	.	.	.	.	2		PAGZZ
39	60A113C25-1	.	.	WASHER, GROMMET	.	.	.	.	3		PAGZZ
40	MS22048GC1	.	.	GROMMET	.	.	.	.	3		PAGZZ
41	MS27983-3	.	.	FASTENER, STUD	.	.	.	.	19		PAGZZ
42	814AS807-1	.	.	FASTENER, SLIDE	.	.	.	.	1		PAGZZ
43	585AS100-1	.	.	LABEL, PARACHUTE ASSEMBLY	.	.	.	.	1		XBGZZ
				/NOTE 3/							
44	MS22048C2	.	.	GROMMET & WASHER, PARACHUTE PACK	.	.	.	.	4		PAGZZ
45	MS27980-8B	.	.	FASTENER, EYELET	.	.	.	.	13		PAGZZ
46	60A113D11-3	.	.	SPRING ASSEMBLY, CONTAINER OPENING	.	.	.	.	4	*	PAOZZ
	MS70105-7	.	.	SPRING ASSEMBLY, CONTAINER OPENING	.	.	.	.	4	*	PAOZZ
47	MS20230B4	.	.	GROMMET AND WASHER	.	.	.	.	1		PAGZZ

- NOTES:**
1. After incorporation of Parachute Harness Sensing Release Unit.
 2. Alternate local manufacture.
 3. Available from Commander, Code 461000D, NAVAIRWARCENWPNDIV, 1900 N Knox Road Stop 6206, China Lake, CA 93555-6106

Figure 1. NB-7 Personnel Parachute Assembly (Sheet 5 of 5)