

**ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE**

**DESCRIPTION AND PRINCIPLES OF OPERATION**

**NB-6 PERSONNEL PARACHUTE ASSEMBLY**

**PART NO. 565AS100-1, 565AS100-2, 565AS100-13, and 565AS100-14**

**List of Effective Work Pages**

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**Reference Material**

Illustrated Parts Breakdown .....	WP 011 04
Intermediate and Depot Repair Procedures, NB-6 Personnel Parachute Assembly .....	WP 011 03
Seat Survival Kits .....	NAVAIR 13-1-6.3

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**Record of Applicable Technical Directives**

None

**1. DESCRIPTION.**

**2. GENERAL.** The NB-6 Personnel Parachute Assembly is a backtype parachute, consisting of a multicolored (white, olive green, international orange, and sand shade), 26 ft. diameter, conical, nylon canopy with 22 gores. Water deflation pockets are provided on alternate gores. The canopy is packed in a container assembly and secured to the aircrew's back by means of a harness assembly (Figure 1).

**3. CONFIGURATIONS.** Four different configurations of the NB-6 parachute assembly may be used in-service. The difference is the size of the harness (NB-6 R (regular) or NB-6 0 (oversize)), and the addition or absence of an automatic parachute ripcord release and lanyard assembly. Refer to the Illustrated Parts Breakdown (Work Package (WP) 011 04) for exact configuration requirements. When circumstances dictate, a crewmember may be required to wear cold weather gear, and this excessive bulk may restrict the use of the existing length of the chest adjusting strap. To preclude this condition, a chest strap extender is authorized for use. For fabrication procedures of the chest strap extender refer to the repair procedures (WP 011 03). The four configurations of the NB-6 assembly may also be used in-service with a seat cushion and standard soft pack (SSP) or with the SP-1A seat pan assembly and SSP depending on aircraft application. The SSP is one of several types of packaged LR-1 liferaft assemblies. (NAVAIR 13-1-6.3)

**4. SUBASSEMBLY CONFIGURATIONS.** The subassemblies listed below and shown in (Figure 2) make up the various configurations of the NB-6 assembly. Refer to WP 011 00 for detailed information on subassemblies.

Pilot Parachute Assembly

Pilot Parachute Connector Strap

Canopy Assembly

Harness Assembly

Back Pad

Lanyard

Lumbar Pad

Ripcord Assembly

Automatic Parachute Ripcord Release Assembly

Container Assembly

**5. PRINCIPLES OF OPERATION.**

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

a. Manually pulling the ripcord removes the ripcord pins (overriding the ripcord release if installed) 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 fill with air.

c. The aircrew falling away from the 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. As load is applied the connector link tacking breaks. The risers are then pulled from the container, and the canopy inflates. This permits the aircrew to descend suspended in the harness.

e. Upon landing, the aircrew releases the harness by actuating the harness quick fit ejector snaps.

**7. AUTOMATIC OPERATION ABOVE PRE-SET ACTIVATION ALTITUDE.** After emergency bailout the following functions take place, assuming the aircrew does not manually deploy the parachute.

a. The automatic parachute ripcord release arming pin is withdrawn as the aircrew exits the aircraft. The release aneroid mechanism locks the firing pin and hammer, which prevents the release from firing.

b. As the aircrew falls, increasing air pressure causes the release aneroid to contract.

c. Upon passing through the pre-set altitude, the aneroid contracts and removes the sear from the firing hammer lock.

d. The release hammer firing pin strikes the cartridge.

e. The release cartridge fires after a preset time delay of 2 sec.

f. The release piston is forced forward in the barrel, pulling the power cable that is attached to the top ripcord pin.

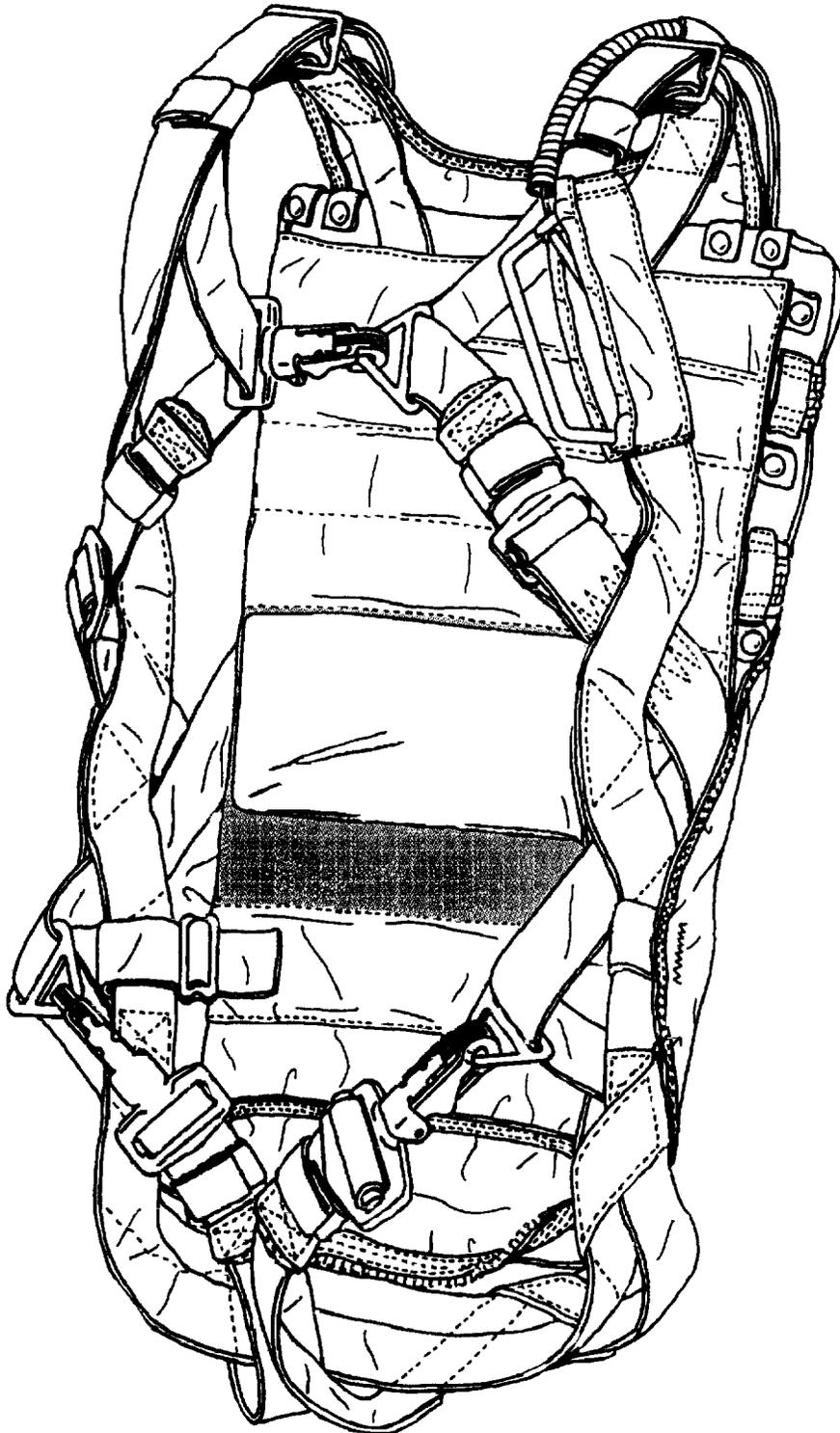
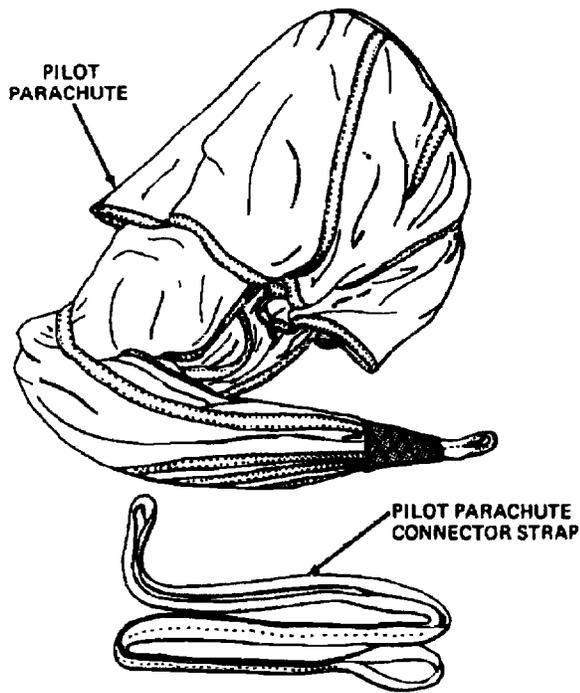
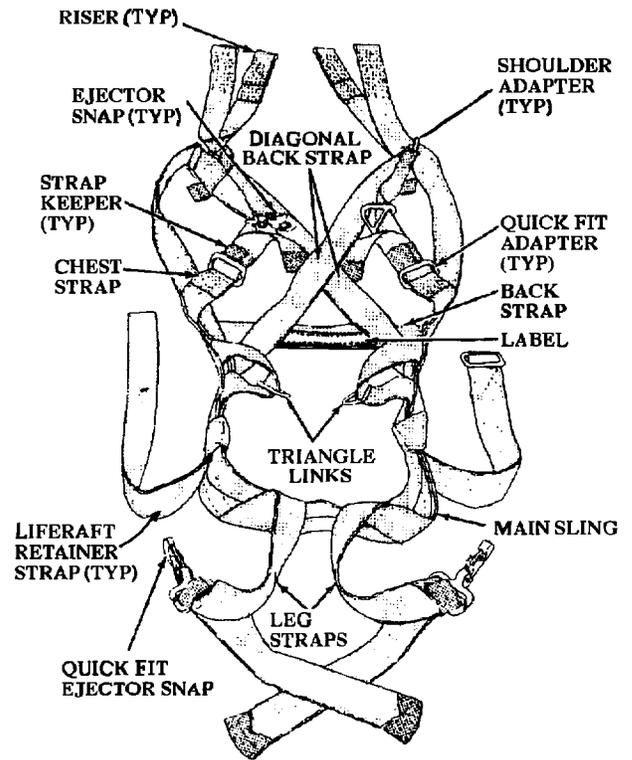


Figure 1. Personnel Parachute Assembly, NB-6



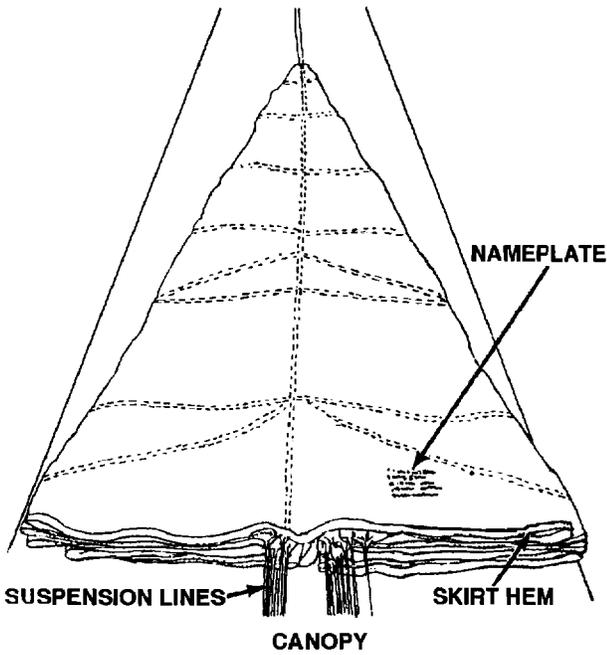
PILOT PARACHUTE AND CONNECTOR STRAP ASSEMBLIES

6.2-5150A

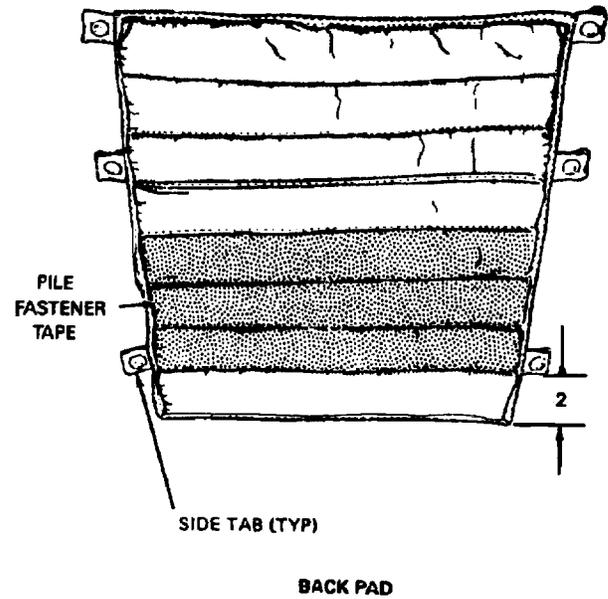


HARNES ASSEMBLY

6.2-5150C

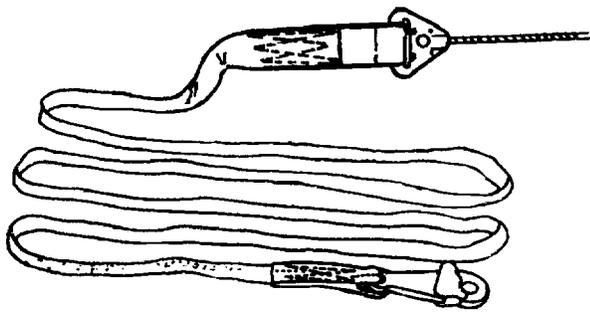


6.2-5150B



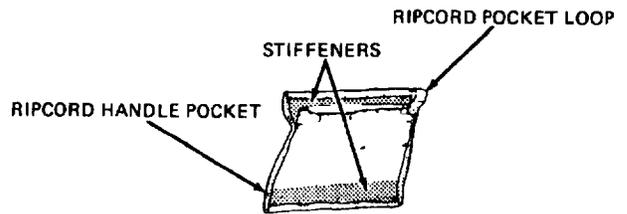
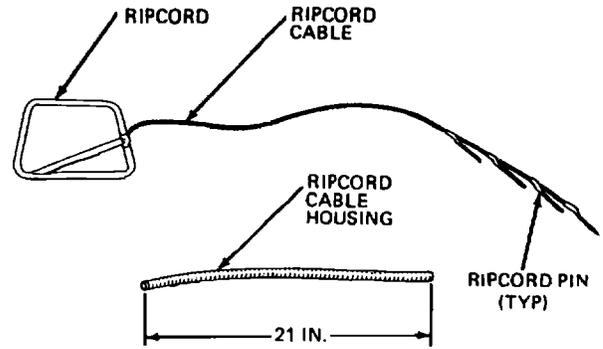
6.2-5150D

Figure 2. Subassemblies, NB-6 (Sheet 1 of 4)



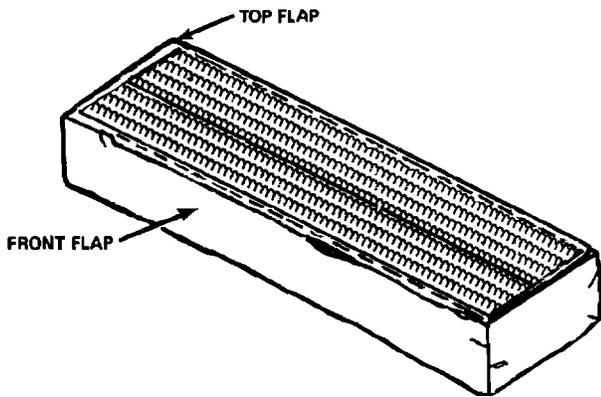
LANYARD ASSEMBLY

6.2-5151A



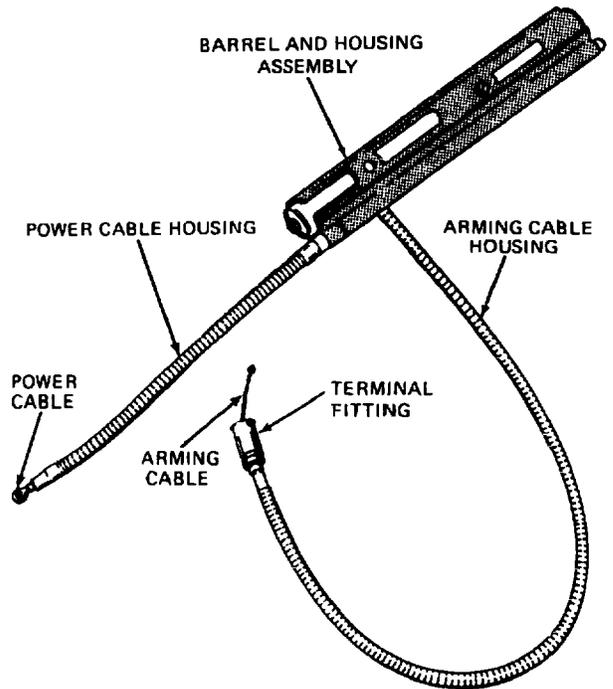
RIPCORD ASSEMBLY

6.2-5151C



LUMBAR PAD

6.2-5151B



AUTOMATIC PARACHUTE RIPCORD RELEASE

6.2-5151D

Figure 2. Subassemblies, NB-6 (Sheet 2 of 4)

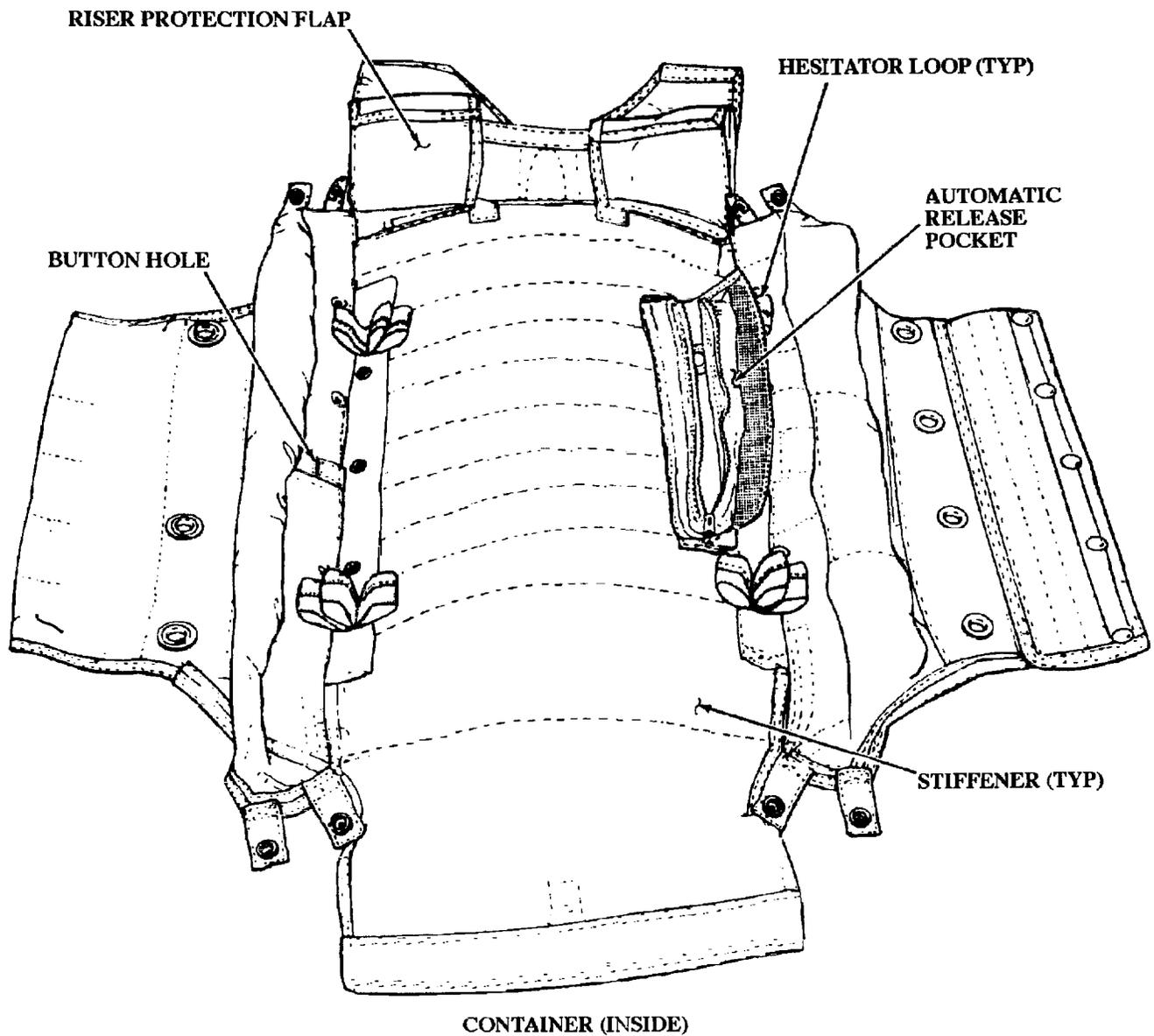


Figure 2. Subassemblies, NB-6 (Sheet 3 of 4)

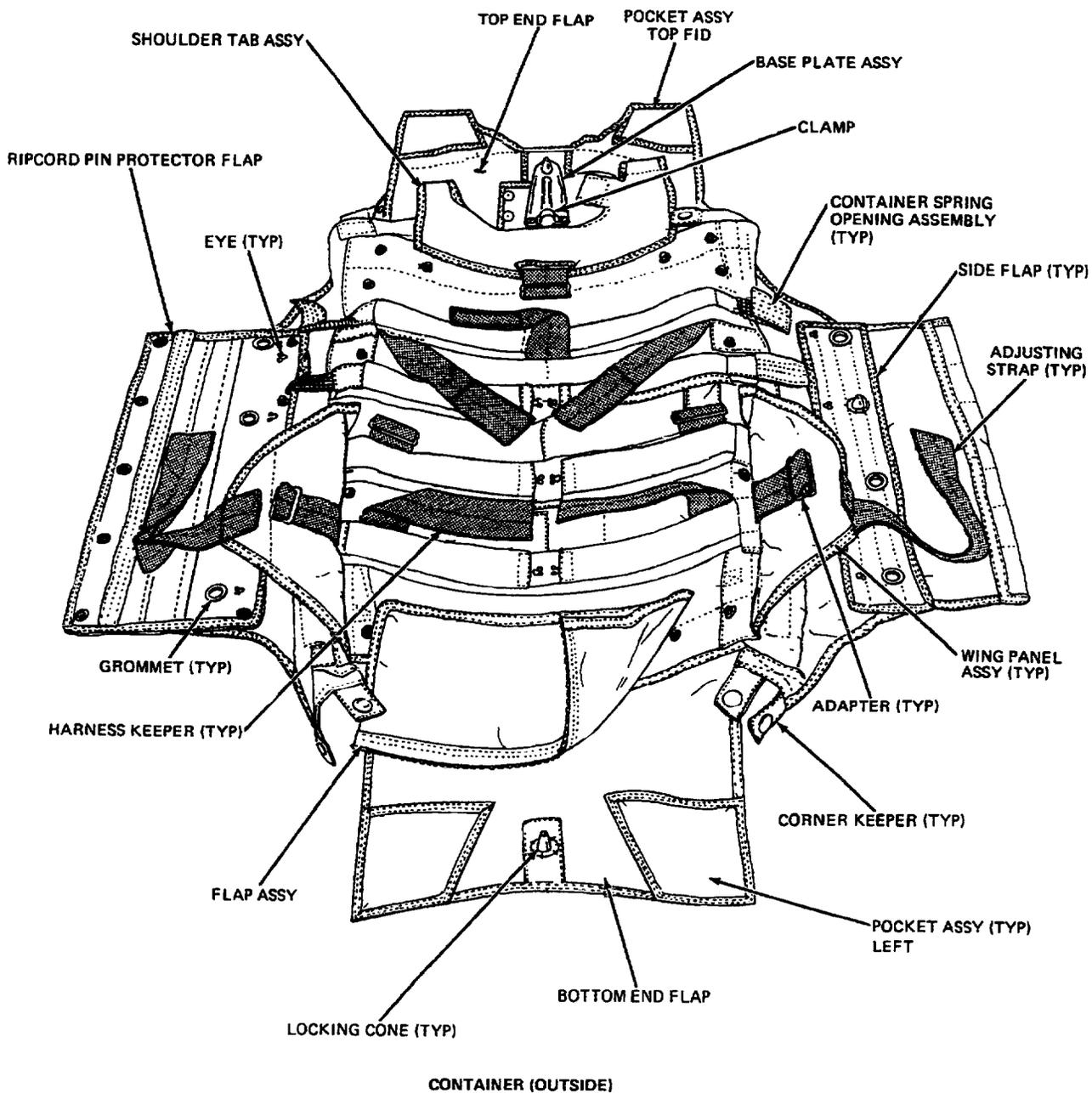


Figure 2. Subassemblies, NB-6 (Sheet 4 of 4)

g. The ripcord pins are pulled by the action of the release power cable, permitting the container grommets and locking cones to separate.

h. The container spring opening assemblies pull the side flaps apart, allowing the pilot parachute to spring from the container and inflate with air.

i. The aircrew falling away from the pilot parachute causes the canopy to be extracted from the container followed by the suspension lines. The canopy begins to inflate during this operation.

j. The connector link tacking breaks as load is applied. The risers are then pulled from the container, and the canopy inflates. This permits the aircrew to descend suspended in the harness.

k. Upon landing, the aircrew releases the harness by actuating the harness quick fit ejector snaps.

**8. AUTOMATIC OPERATION BELOW PRE-SET ACTIVATION ALTITUDE.** After emergency bailout the following functions take place, assuming the aircrew does not manually deploy the parachute.

a. As the aircrew exits the aircraft, the automatic parachute ripcord release arming pin is withdrawn automatically releasing the release firing pin and hammer.

b. The release hammer firing pin strikes the cartridge.

c. The release cartridge fires after a 2.0 sec. time delay.

d. The release piston is forced forward in the barrel, pulling the power cable that is attached to the top ripcord pin.

e. The ripcord pins are pulled by the action of the release power cable, permitting the container grommets and locking cones to separate.

f. The container spring opening assemblies pull the side flaps apart, allowing the pilot parachute to spring from the container and fill with air.

g. The aircrew falling away from the pilot parachute causes the canopy to be extracted from the container, followed by the suspension lines. The canopy begins to inflate during this operation.

h. As load is applied the connector link tacking breaks. The risers are then pulled from the container, and the canopy inflates. This permits the aircrew to descend suspended in the harness.

i. Upon landing, the aircrew releases the harness by actuating the harness quick fit ejector snaps.

## **9. REPACK SCHEDULE.**

a. Scheduled repack cycle is 420 days.

**ORGANIZATIONAL MAINTENANCE**

**REPAIR PROCEDURES**

**NB-6 PERSONNEL PARACHUTE ASSEMBLY**

**PART NO. 565AS100-1, 565AS100-2, 565AS100-13, and 565AS100-14**

**List of Effective Work Package Pages**

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**Reference Material**

Intermediate and Depot Maintenance, Common Repair Procedures .....	WP 004 00
Introduction, Organizational, Intermediate and Depot Maintenance with Illustrated Parts Breakdowns, Emergency Personnel and Drogue Parachute Systems .....	WP 002 00

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**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. Refer to WP 004 00 for common repairs.

c. When performing repairs detailed in this WP, follow 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 it's source for immediate use only. Ensure 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.

**2. HARNESS ASSEMBLY.**

**3. REPLACEMENT OF LIFERAFT RETAINING STRAP TACKINGS WHEN NO SURVIVAL KIT IS INSTALLED.**

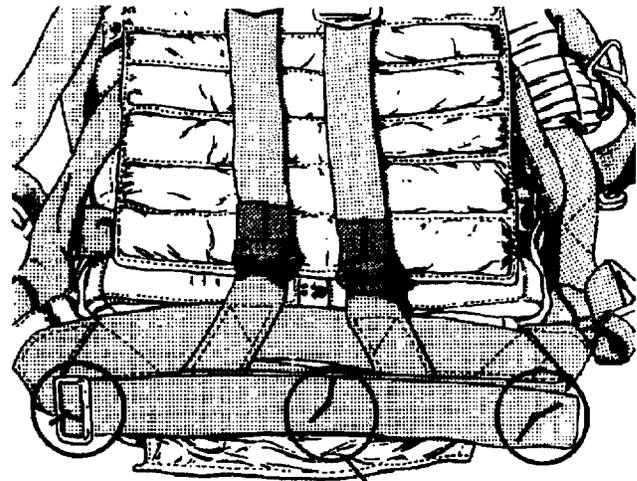
Materials Required

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. Tack liferaft retaining strap at adapter by passing one turn of size 6 thread, single and waxed, thru strap, around center bar of adapter, and thru retaining straps; tie off (Figure 1).



TACKING (TYP 3 PLACES)

6.2-5490

**Figure 1. Replacement of Liferaft Retaining Strap Tackings When no Survival Kit is Installed**

b. Tack end of liferaft retaining strap by first folding strap end under 2-in. and tacking to strap beneath with one turn of size 6 thread, single and waxed; tie off (Figure 1).

c. Tack center of liferaft retaining straps by passing one turn of size 6 thread, single and waxed thru straps and main sling; tie off (Figure 1).

**4. CONTAINER ASSEMBLY.**

**5. REPLACEMENT OF HARNESS KEEPER ADAPTER TACKINGS.**

Materials Required

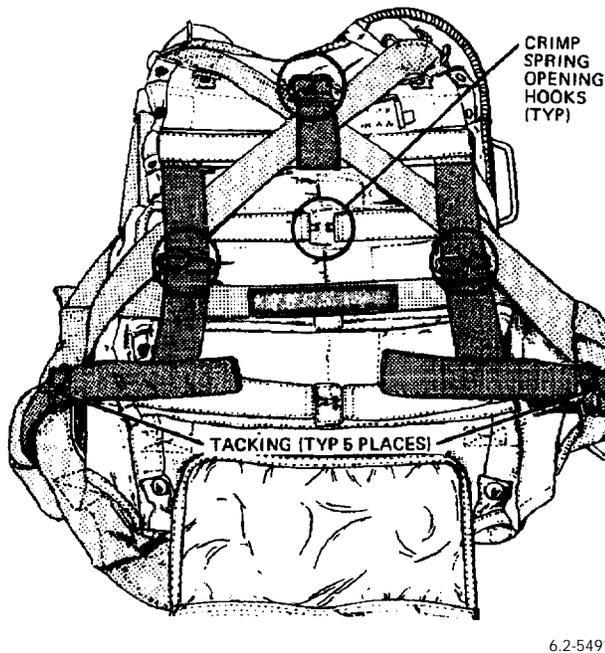
Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

**NOTE**

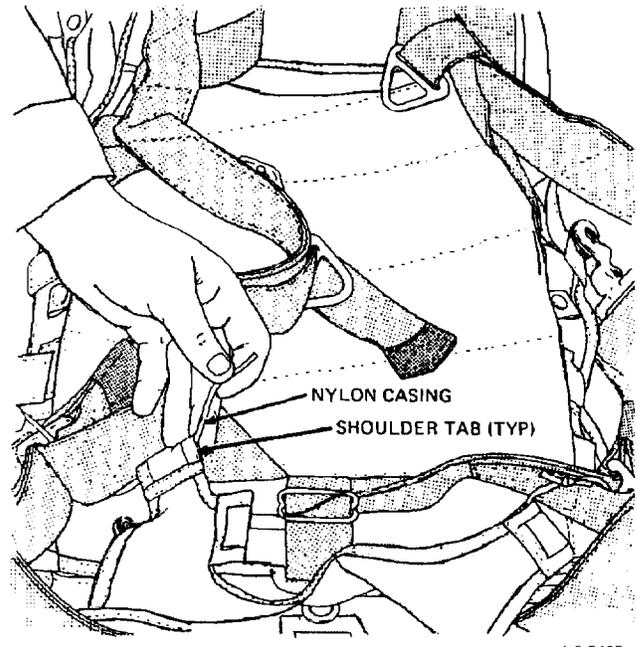
Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

a. If necessary, remove back pad.

b. Tack five end straps at adapters with one turn of size 6 thread, single and waxed. Pass tacking thru straps and around center bar of adapter; tie off (Figure 2).



6.2-5491



6.2-5405

**Figure 2. Replacement of Harness Keeper Adapter Tackings**

c. If removed, reattach back pad.

**6. REPLACEMENT OF HARNESS-TO-SHOULDER TAB TIES.**

**Materials Required**

Specification or Part Number

Nomenclature

PIA-C-5040

Cord, Nylon, Type III

- a. Cut a 10-in. length of Type III nylon cord.
- b. Remove and discard inner cores and sear ends of casing.
- c. Pass nylon casing thru shoulder tab loop (Figure 3).

**Figure 3. Replacement of Ties Securing Shoulder Tabs to Harness**

d. Pass one end of nylon casing thru harness adapter webbing loop. Tie ends of casing together with a square knot.

**7. REPLACEMENT OF SPRING OPENING ASSEMBLY.**

a. Measure length of replacement spring opening assembly (60A113D11-2). Required length is  $9 \frac{1}{4} \pm \frac{1}{8}$ -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. Draw a pull cord thru spring opening channel.

d. Attach one end of pull cord to hook on spring opening assembly and then draw cord thru channel.

e. Attach spring opening assembly hooks to container eyelets with hook facing container.

f. Crimp hook attached to eyelet on centerline of container (Figure 2).

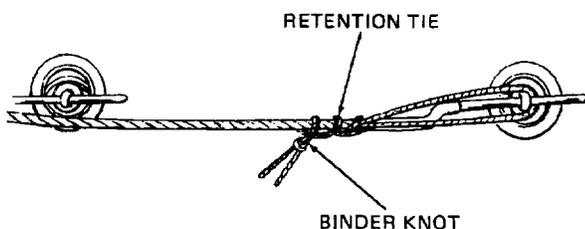
**8. REPLACEMENT OF RIPCORD PIN RETENTION TIE.**

**Materials Required**

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

a. Completely remove broken retention tie from ripcord pin and cable.

b. Loop a 12-in. length size A 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 4).



6.2-5648

**Figure 4. Replacement of Ripcord Pin Retention Tie**

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

**9. SURVIVAL KIT.**

**10. REPLACEMENT OF LIFERAFT RETAINING STRAP AND OUTER CONTAINER VERTICAL AND HORIZONTAL STRAP TACKINGS.**

**Materials Required**

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

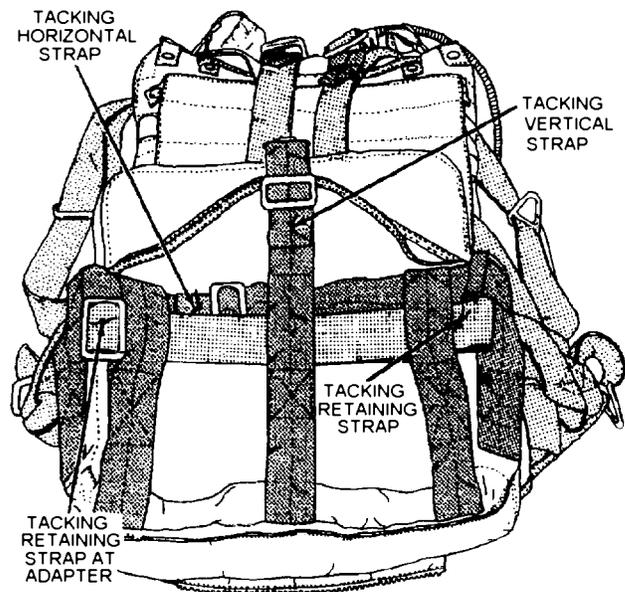
**NOTE**

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. Liferaft Retaining Strap.

(1) Remove combination carrying case and equipment container from outer container.

(2) Tack adapter by passing one turn of size 6 thread, single and waxed, thru strap and around center bar of adapter; tie off (Figure 5).



6.2-5406

**Figure 5. Replacement of Liferaft Retaining Strap and Outer Container Vertical and Horizontal Strap Tackings**

(3) Fold excess strap under and tack strap to outer container with one turn of size 6 thread, single and waxed; tie off (Figure 5).

(4) Reinstall combination carrying case and equipment container into outer container.

b. Outer Container Vertical and Horizontal Strap Tackings.

(1) Remove combination carrying case and equipment container from outer container.

(2) Fold horizontal and/or vertical straps under, tucking end under adapter. Tack folded strap to strap beneath with one turn of size 6 thread, doubled and waxed; tie off (Figure 5).

(3) Reinstall combination carrying case and equipment container into outer container.

**11. REPLACEMENT OF SEAT CUSHION/SEAT PAN TACKINGS.**

**Materials Required**

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

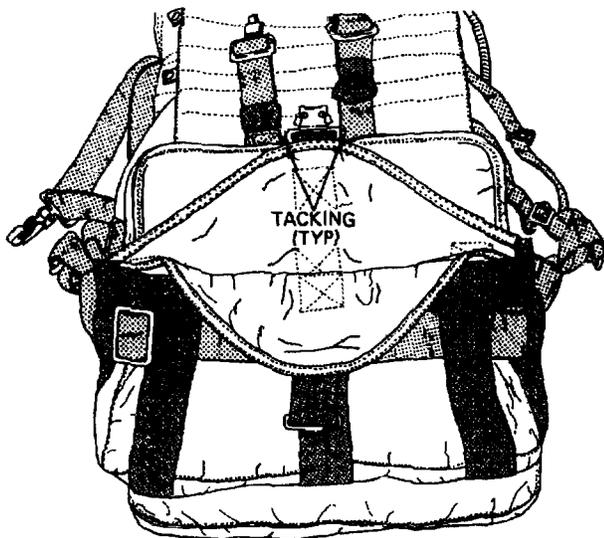
**NOTE**

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. Main Panel Tackings.**

(1) Remove combination carrying case and equipment container.

(2) Tack main panel to seat cushion/seat pan at mark on either side of quick-disconnect shackle with one turn of size 6 thread, doubled and waxed; tie off (Figure 6).



6.2-5493

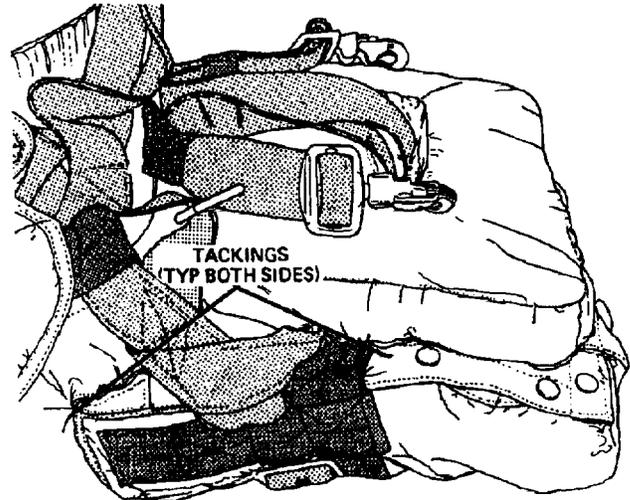
**Figure 6. Replacement of Outer Container Seat Cushion/Seat Pan Main Panel Tackings**

(3) Reinstall combination carrying case and equipment container.

**b. Cushion/Seat Pan Four Corner Tackings.**

(1) Remove combination carrying case and equipment container.

(2) Tack each corner of outer container to seat cushion/seat pan with one turn of size 6 thread, doubled and waxed; tie off (Figure 7).



6.2-5494

**Figure 7. Replacement of Outer Container to Seat Cushion/Seat Pan Four Corner Tackings**

(3) Reinstall combination carrying case and equipment container.

**12. REPLACEMENT OF STANDARD SOFT PACK (SSP).**

**Materials Required**

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

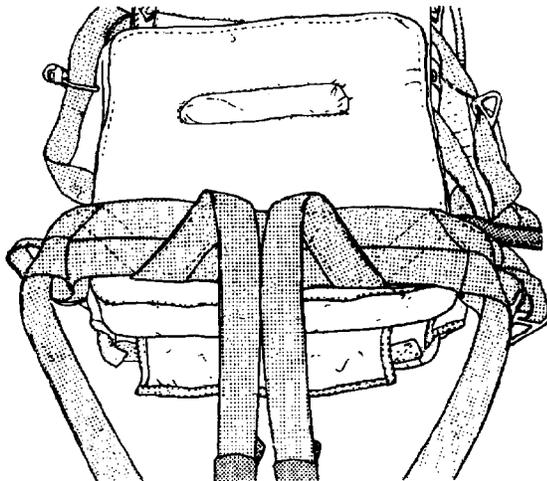
**NOTE**

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 combination carrying case and equipment container from SSP outer container.

b. Remove all tackings and unreeve harness retaining straps and leg straps. Remove SSP and seat cushion.

c. Position packed assembly on packing table with back pad facing up. Slide seat cushion between harness main sling and back pad with slot turned toward top of parachute container (Figure 8).



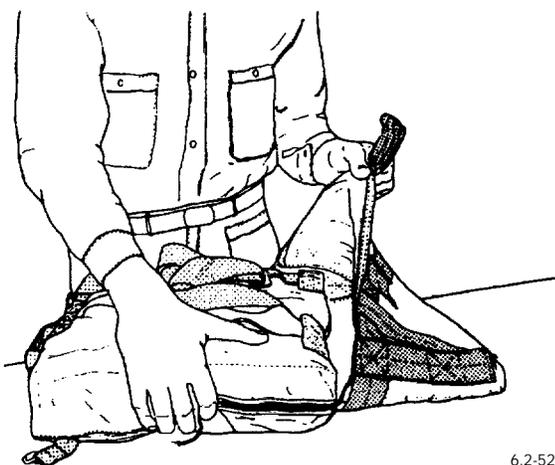
6.2-5210

**Figure 8. Position Packed Assembly**

d. If installed, remove and discard the six Type III nylon cord ties from SSP outer container.

e. Turn SSP outer container over so that horizontal strap adapter faces up.

f. Position combination carrying case and equipment container on packing table with shoulder straps facing up. Insert combination carrying case and equipment container into SSP outer container. The carrying case and equipment container strap handle must be positioned at open end of outer container (Figure 9).



6.2-5210A

**Figure 9. Position Combination Carrying Case**

g. Pull outer container main panels over combination carrying case and equipment container. Secure vertical strap quick-disconnect shackle outside of strap handle. Reeve horizontal and vertical straps snugly thru adapter.

h. Mark ends of vertical and horizontal straps at edge of each adapter (Figure 10).

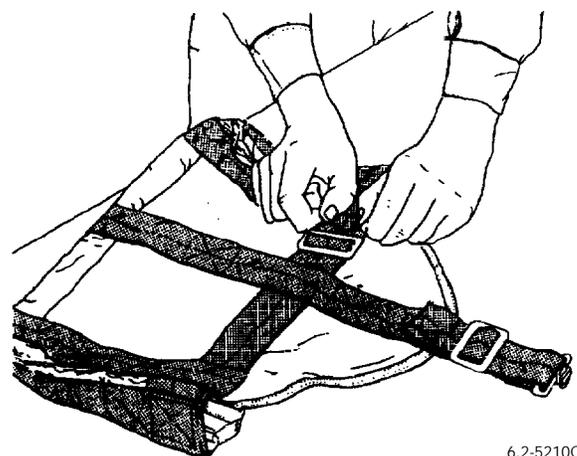


6.2-5210B

**Figure 10. Mark Vertical and Horizontal Straps**

i. Disconnect vertical strap quick-disconnect shackle and remove combination carrying case and equipment container from outer container.

j. Adjust horizontal and vertical strap adapters to markings made in step h. Fold both straps under and tuck ends under each adapter. Tack folded-under strap to strap beneath with one turn of size 6 thread, doubled and waxed; tie off (Figure 11).

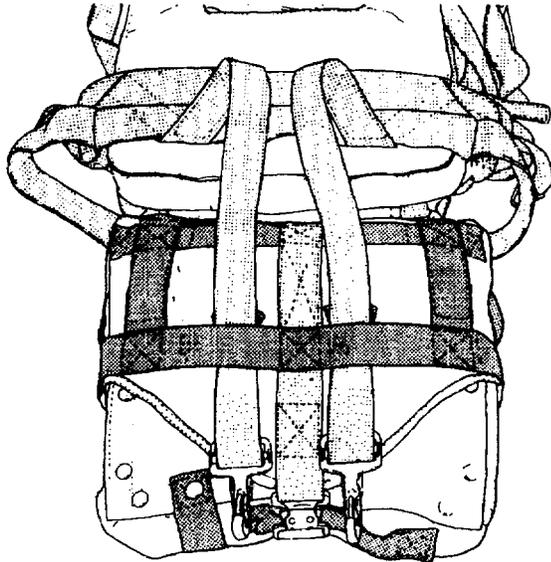


6.2-5210C

**Figure 11. Adjust Horizontal and Vertical Straps**

k. Insert combination carrying case and equipment container into outer container and fasten vertical strap quick-disconnect shackle.

l. Place SSP on packing table next to parachute container and pass leg strap thru keepers on SSP (Figure 12).



6.2-5211

**Figure 12. Pass Leg Straps Thru Keepers**

m. Rotate SSP onto seat cushion and pass harness leg straps thru slot in seat cushion (Figure 13).



6.2-5211A

**Figure 13. Rotate SSP onto Seat Cushion**

n. Reeve liferaft retaining straps thru keepers on sides and top of SSP. Remove combination carrying case and equipment container from SSP outer container. Tack around center bar of liferaft retaining strap adapter with one turn of size 6 thread, single and waxed; tie off. Tack center and end of retaining strap to SSP outer container with one turn of size 6 thread, single and waxed; tie off (Figure 14).

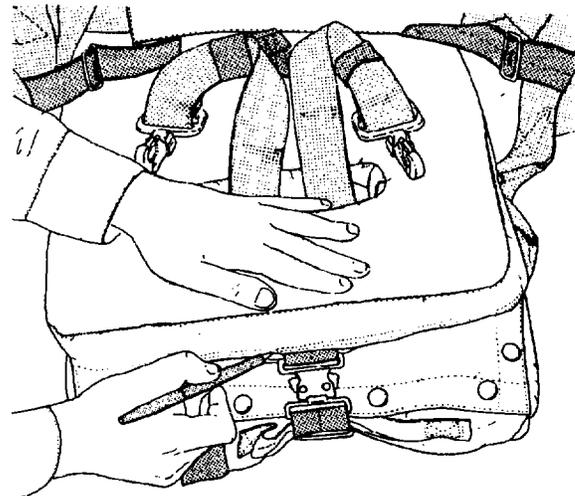


6.2-5211B

**Figure 14. Reeve Raft Retaining Straps Thru Keepers**

o. Insert combination carrying case and equipment container into SSP outer container.

p. Center seat cushion slightly behind SSP quick-disconnect shackle. Mark SSP outer container main panel edges and seat cushion on each side of vertical strap for future tacking (Figure 15).

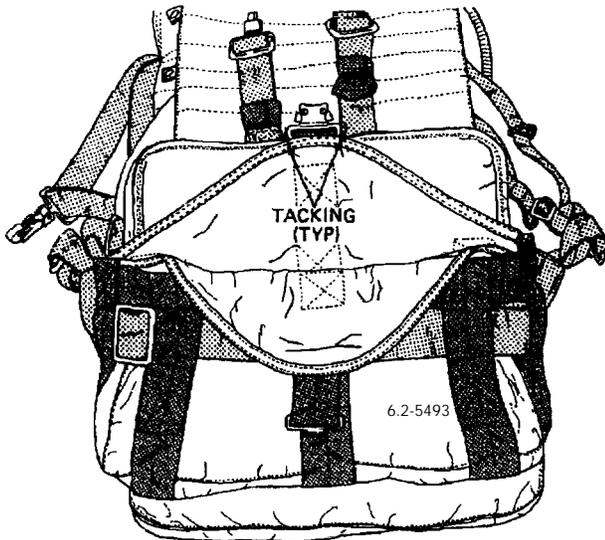


6.2-6059

**Figure 15. Center Seat Cushion Behind SSP**

q. Remove combination carrying case and equipment container from SSP outer container.

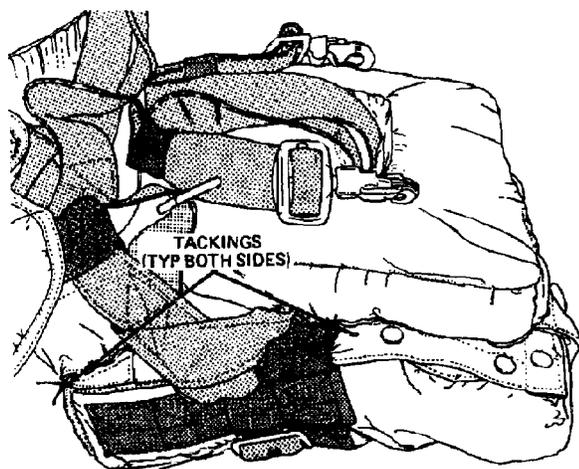
r. Tack main panel edges to seat cushion at locations marked in step p with one turn of size 6 thread, doubled and waxed; tie off. Note that when seat cushion is tacked, it will hang over back of SSP outer container (Figure 16).



1101-17

**Figure 16. Tack Main Panel Edges**

s. Tack four corners of SSP outer container to seat cushion using one turn of size 6 thread, doubled and waxed; tie off. If necessary, compress seat cushion slightly to stitch rear corner tackings. Insert combination carrying case and equipment container. Ensure that quick-disconnect shackle is fastened (Figure 17). (QA)



1101-18

**Figure 17. Tack Four Corners**

**13. ATTACHMENT OF SP-1A SEAT PAN AND SSP (IF REQUIRED).**

**Materials Required**

Specification or Part Number

Nomenclature

V-T-295

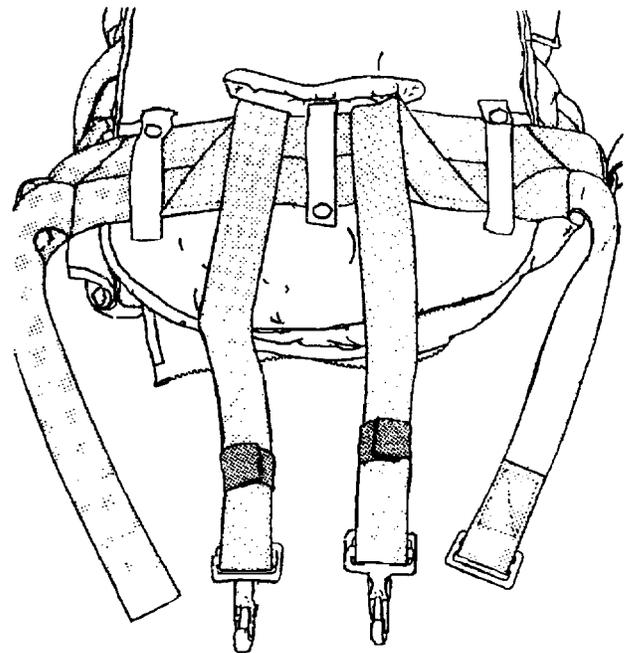
Thread, Nylon, Size 6, Type I or II, Class A

**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 tackings securing seat cushion to SSP outer container; remove seat cushion.

b. Position packed assembly on packing table with back pad facing up. Slide seat cushion between harness main sling and back pad with slot turned toward top of parachute container (Figure 18).



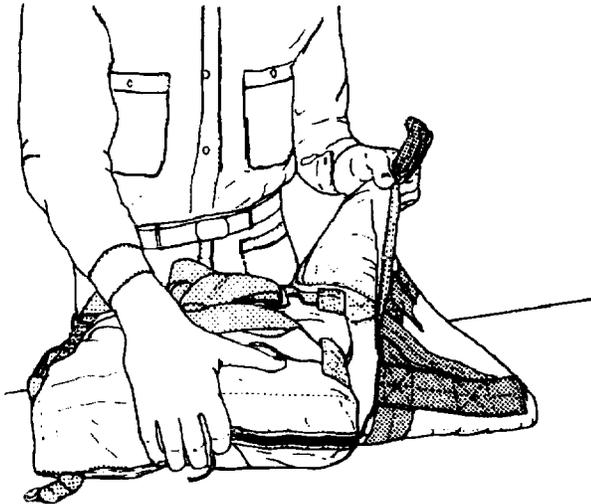
6.2-5213A

**Figure 18. Position Packed Assembly**

c. If installed, remove and discard the six Type III nylon cord ties from SSP outer container.

d. Turn SSP outer container over so that horizontal strap adapter faces up.

e. Position combination carrying case and equipment container on packing table with shoulder straps facing up. Insert combination carrying case and equipment container into SSP outer container. The carrying case and equipment container strap handle must be positioned at open end of outer container (Figure 19).



1101-20

**Figure 19. Position Combination Carrying Case**

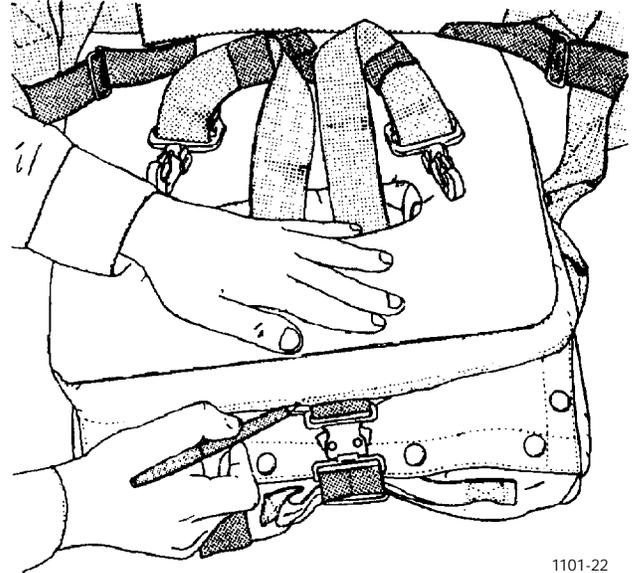
f. Reeve raft retaining straps thru keepers on sides and top of SSP. Remove combination carrying case and equipment container from SSP outer container. Tack around center bar of raft retaining strap adapter with one turn of size 6 thread, single and waxed; tie off. Tack thru SSP outer container tack center and end of retaining strap to SSP outer container with one turn of size 6 thread, single and waxed; tie off (Figure 20).



6.2-5214B

**Figure 20. Reeve Raft Retaining Straps**

g. Center seat cushion slightly behind SSP quick-disconnect shackle. Mark SSP outer container main panel edges and seat cushion on each side of vertical strap for future tacking (Figure 21).

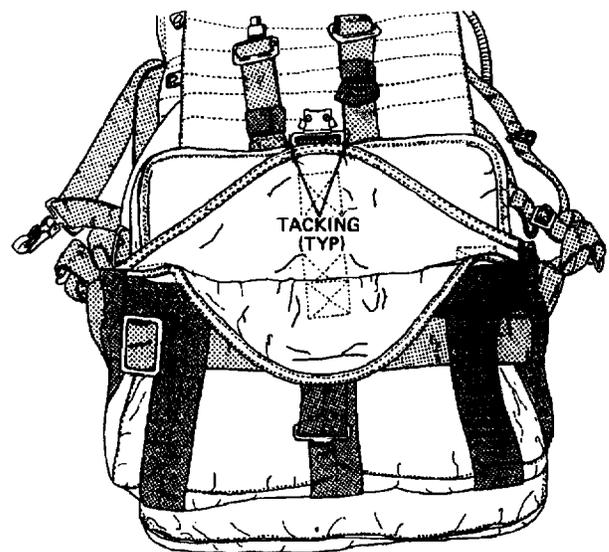


1101-22

**Figure 21. Center-Seat Cushion**

h. Remove combination carrying case and equipment container from SSP outer container.

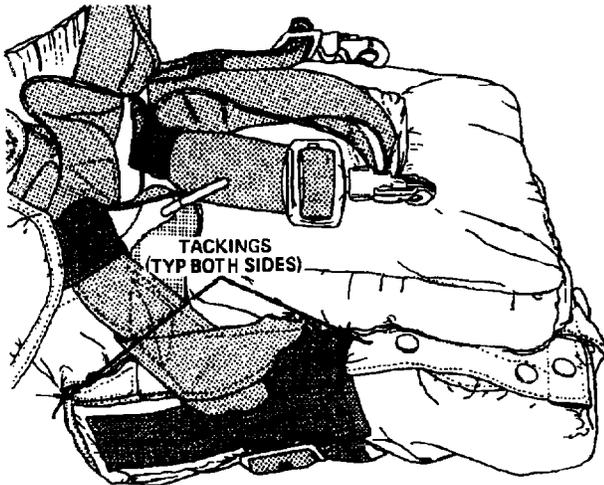
i. Tack main panel edges to seat cushion at locations marked in step g, with one turn of size 6 thread, doubled and waxed; tie off. Note that when seat cushion is tacked, it will hang over back of SSP outer container (Figure 22).



1101-23

**Figure 22. Tack Main Panel Edges**

j. Tack four corners of SSP outer container to seat cushion using one turn of size 6 thread, doubled and waxed; tie off. If necessary, compress seat cushion slightly to stitch rear corner tackings. Insert combination carrying case and equipment container. Ensure that quick-disconnect shackle is fastened (Figure 23). (QA)



1101-24

**Figure 23. Tack Container to Cushion**

**INTERMEDIATE AND DEPOT MAINTENANCE**  
**PACKING PROCEDURES**

**NB-6 PERSONNEL PARACHUTE ASSEMBLY**

**PART NO. 565AS100-1, 565AS100-2, 565AS100-13, and 565AS100-14**

**List of Effective Work Package Pages**

<u>Page No.</u>	<u>Chg. No.</u>						
1	11	6	9	8	9	12 thru 31	9
2 thru 4	9	7	10	9 thru 11	11	32	10
5	11						

**Reference Material**

Cartridge Actuated Devices (CADS) and Propellant Actuated Devices (PADS) (IETM) . . . . .	NAVAIR 11-100-1.1
Organizational, Intermediate and Depot Maintenance, Illustrated Parts Breakdown, NB-6 Personnel Parachute Assembly . . . . .	WP 011 04
Organizational, Intermediate and Depot Maintenance, Parachute Loft Requirements/Administration . . . . .	WP 003 00

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**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, provisions 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 circumstances, the parachute assembly shall be completely repacked per the 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 harness/riser end of table.

**2. PRELIMINARY PROCEDURES.**

**Support Equipment Required**

Part Number	Nomenclature
711-07076	Altitude Chamber
Refer to WP 005 00	Fid
Refer to WP 005 00	Guide Tube
Refer to WP 005 00	Long Bar (2)
Refer to WP 005 00	Packing Hook
Refer to WP 005 00	Ripcord Pin Lock
DPP-50	Scale, Spring
Refer to WP 005 00	Shot Bag (4)
11-1-3512	Small Line Separator
Refer to WP 005 00	Temporary Locking Pin (4)
Refer to WP 005 00	Temporary Locking Pin Plate

**Materials Required**

Specification or Part Number	Nomenclature
PIA-C-5040	Cord, Nylon, Type I or IA

Specification or Part Number	Nomenclature
711-07077	Test Slug (3)
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 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

a. Ensure that all support equipment and materials required are available prior to starting.

b. Inspect packing tools for nicks, burrs, or sharp edges that may cause damage to the parachute assembly.

c. Count and record number of packing tools.

d. Clean packing table.

**3. LAYOUT OF RIGGED PARACHUTE ASSEMBLY.**

a. Completely open parachute container and detach spring opening assemblies and corner keepers.

b. Remove canopy from container and then remove tacking securing connector links to container.

c. Stretch canopy and suspension lines full length on a clean packing table.

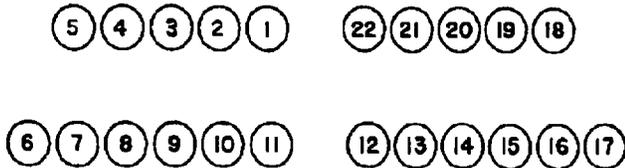
d. Locate gore 22 (nameplate gore) and place uppermost in center of packing table.

e. Attach tension strap hook to canopy vent lines.

f. At skirt hem, separate suspension lines into two equal groups with lines 1 thru 11 on packer's side and 12 thru 22 on helper's side. Grasping each group of lines, walk from skirt hem to connector links, removing any dips and twists between the two groups.

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

h. Place connector link holding lines 1 thru 5 on top of connector link holding lines 6 thru 11. Place connector link holding lines 22 thru 18 on top of connector link holding lines 12 thru 17. Insert tension hooks into connector links and insert hooks into packing table (Figure 1).



6.2-5447

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

i. Pull suspension lines taut and adjust apex hem.

**4. AUTOMATIC PARACHUTE RIPCORD RELEASE REMOVAL/DISARMING/DISASSEMBLY (IF INSTALLED).**

**WARNING**

Do not pull arming cable from armed release assembly, as this will cause it to fire.

- a. Open release assembly pocket in the parachute container and remove release assembly enough distance to allow disassembly.
- b. Remove cover locking screw and washer (Figure 3).

**NOTE**

Cover and power cable assembly and receiver and barrel assembly are serialized, matched sets. Do not mix assemblies.

- c. Slide cover off receiver and barrel assembly.
- d. Disengage barrel by pushing down on snap-lock; slide back and release (Figure 2).

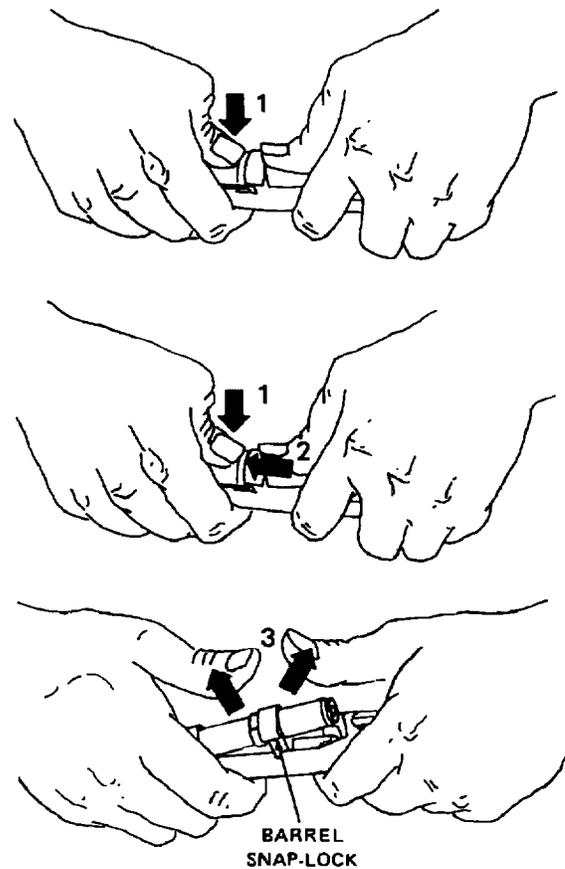


Figure 2. Disarming Ripcord Release

6.2-5362

- e. Remove cartridge from barrel immediately after barrel is disengaged. Store cartridge per NAVAIR 11-100-1.1. (QA)
- f. Remove arming cable housing from receiver and barrel by depressing retainer release (Figure 3). Remove arming cable housing from receiver, leaving arming cable pin installed.
- g. Ensure that arming cable pin is positively retained by arming pin retainer (Figure 3).
- h. Remove arming cable pin from receiver by grasping arming pin and pulling.
- i. Remove arming cable and clip from arming cable housing.
- j. Remove lanyard assembly from lanyard stowage channel.

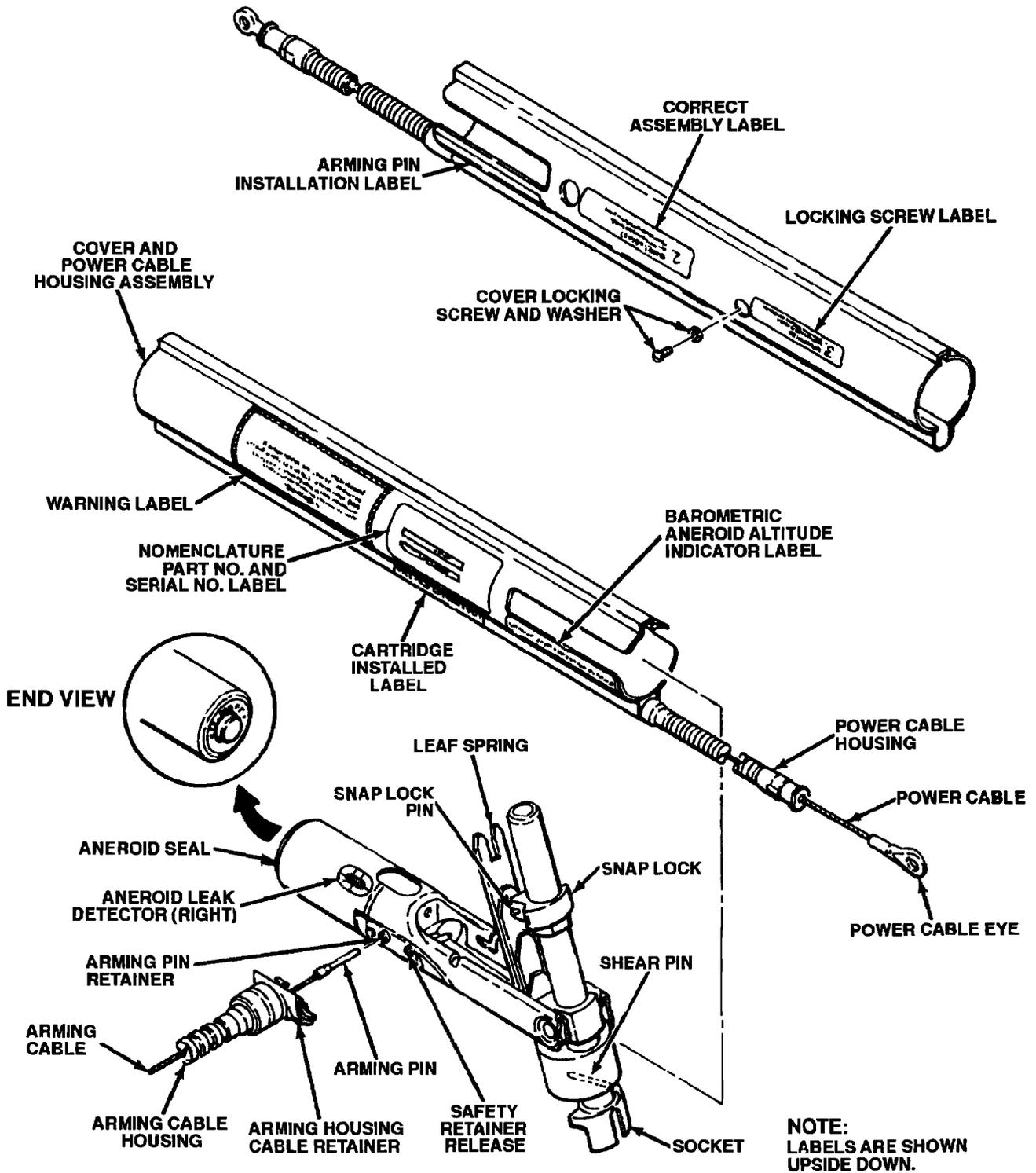


Figure 3. Automatic Parachute Ripcord Release, Model 7000

**5. INSPECTION (SPECIAL).**

- a. Maximum scheduled repack cycle is 420 days.

**6. 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)
Canopy Assembly	None	15
Cartridge M284	Refer to NAVAIR 11-100-1.1	
Harness Assembly	None	15
Lanyard Assembly	2	7
Pilot Parachute		15
Pilot Parachute Connector Strap		15

- (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.

**7. AUTOMATIC PARACHUTE RIPCORD RELEASE.**

**NOTE**

Do not mismatch cover and power cable housing assembly and barrel and receiver assembly.

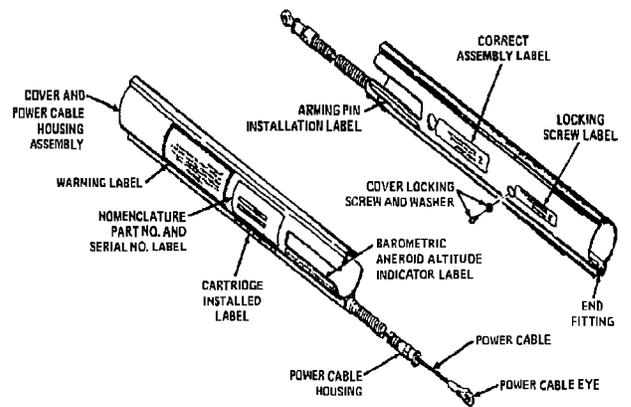
- a. Serial numbers on the cover and power cable housing and receiver and barrel assembly for matched numbers. (QA)

- b. Receiver and barrel assembly for nicks, cracks, gouges, distortion, corrosion, or other damage which could cause malfunction in-service.

- c. Decals and labels for legibility and security of attachment.

- d. Cover and power cable housing for nicks, gouges, distortion, corrosion, and security of power cable housing.

- e. Power cable for freedom of movement and secure attachment of swaged ball and power cable eye (Figure 4).



6.2-1113

**Figure 4. Attachment of Swaged Ball and Power Cable Eye**

f. Arming cable clip retainer and retainer pin for distortion, corrosion, and other damage.

g. Arming cable housing for bends, retention of end furrel, retention of housing retainer.

h. Aneroid for evidence of expansion and correct indication.

i. Ensure proper retention of arming pin retainer by inserting arming pin in retainer while barrel is unlocked. Press pin into place firmly until locked into pin groove. Pin should now be held securely.

j. Manually pull arming cable pin from retainer, ensuring that pin was properly secured. (QA)

k. Sealing compound on aneroid; seal must be intact. Cracks due to normal aging of seal material are acceptable (Figure 5).

**WARNING**

Do not twist socket, as this will break shear pin.

l. Socket for visible damage and retention of socket and piston by shear pin.

m. Snap-lock pin for security and damage.

n. Teflon seal (inside of barrel) for placement.

o. Firing pin for flattening, gouges, and other damage.

p. Leaf springs on receiver and barrel assembly for damage; leaf spring retaining screw for condition and presence of torque seal (Figure 6).

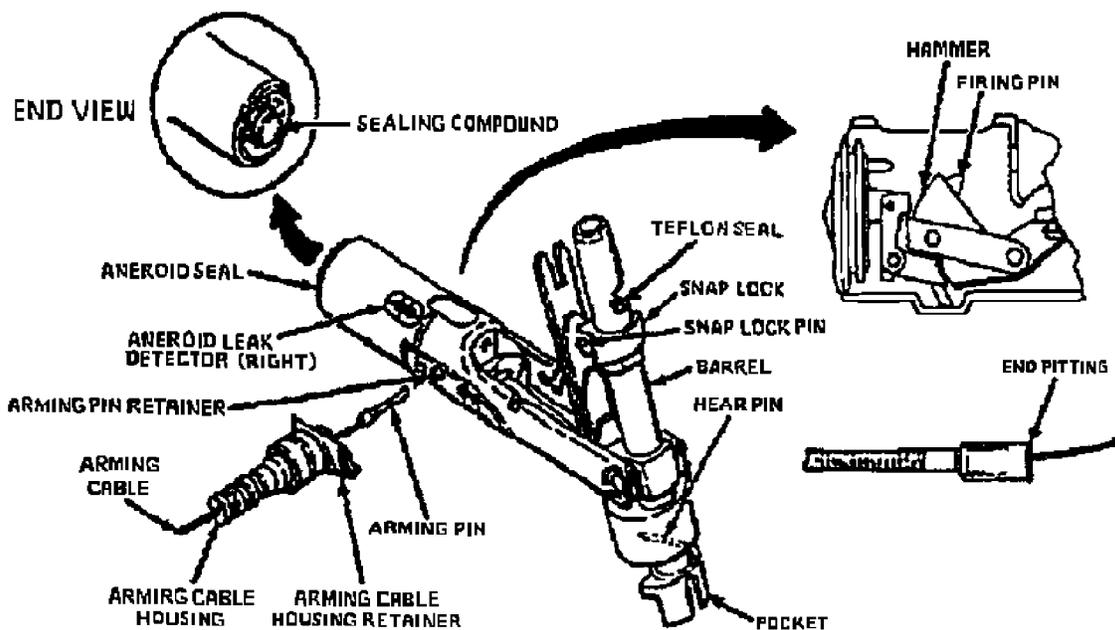
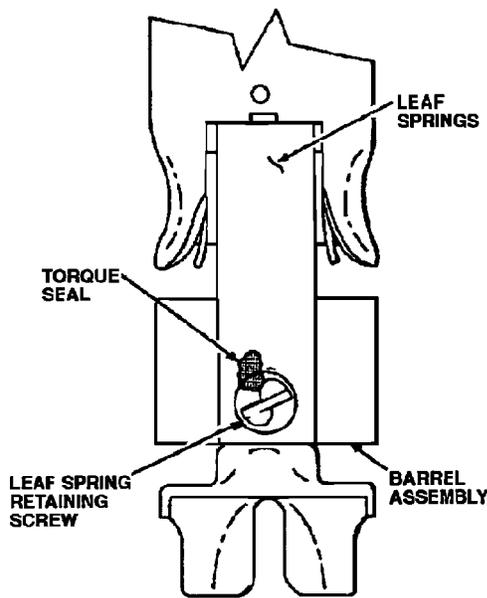


Figure 5. Sealing Compound Check



6.2-5643

Figure 6. Presence of Torque Seal

**8. RIPCORD RELEASE FIRING ALTITUDE CHECK.**

a. Install test chamber substitute arming pin in ripcord release.

**CAUTION**

Do not release firing mechanism without test slug installed, as this will distort the firewall.

b. Install test slug.

**CAUTION**

At no time will a tool or other device be used to open or close the ripcord release.

c. Press barrel down into position in receiver, ensure snap-lock pins lock barrel in position.

d. Perform firing altitude check:

**NOTE**

Determine whether actuator being tested is pre-set for 10,000 ft. or 14,000 ft. The ripcord release firing check must simulate firing  $\pm 1,000$  ft. of pre-set altitude.

- (1) Install barrel and receiver in test chamber. (QA)
- (2) Set altimeter to 29.92 in. Hg. (QA)

(3) Evacuate chamber to a minimum of 25,000 ft. pressure altitude. (QA)

(4) Decrease altitude at a rate of 175 to 200 ft./sec. (QA)

(5) Actuate arm toggle to withdraw arming pin at approximately 20,000 ft. pressure altitude. (QA)

(6) Verify altitude at which ripcord release firing pin strikes test slug. (QA)

(7) Remove test slug from barrel; check primer for indent; indent must be present and centered. (QA)

**CAUTION**

Test slug must be removed from barrel after each use.

(8) Repeat firing altitude check two additional times; using a new test slug each time; the ripcord release must pass all three firing altitude checks. (QA)

(9) Discard test slugs. (QA)

(10) Remove ripcord release from altitude chamber. (QA)

**9. RIPCORD RELEASE END FITTING REMOVAL TEST.**

**NOTE**

The arming cable and housing shall be removed from the automatic parachute ripcord release assembly.

a. Helper shall hold arming cable housing steady on packing table.

b. Attach gage to the swaged ball using Type I or IA nylon cord.

c. Using a straight steady pull, observe amount of pull required to remove end fitting from arming cable housing. Allowable force is 17 lbs.  $\pm$  3 lbs. (QA)

**10. SUSPENSION LINE CONTINUITY CHECK.**

a. Packer shall grasp line 1 on left side of gore 22 and raise suspension line to a height sufficient to ensure that suspension line continuity is maintained (Figure 1) and is free of dips and twists from skirt hem to connector link, and continue procedure with suspension lines 2 through 14. (QA)

b. Use the same procedure as in step a on right side of gore 22, except packer shall start with suspension line 22 and work through suspension line 11. (QA)

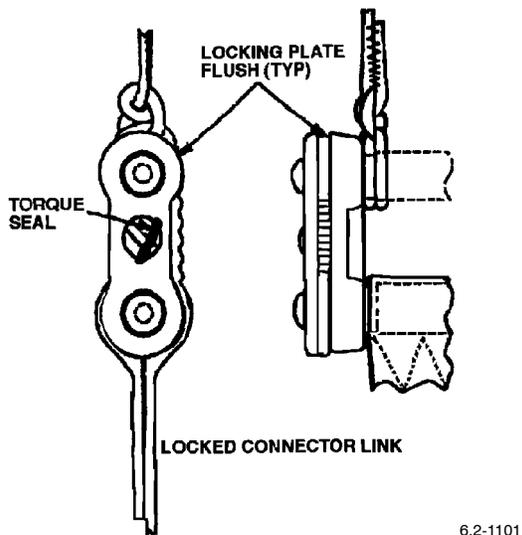
**11. CANOPY ASSEMBLY.**

- a. Canopy skirt hem, fabric surface, diagonal seams, radial seams, vent hem, and 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 lines at skirt hem for security and condition of V-tabs.
- d. Connector links for corrosion, distortion, nicks, burrs, sharp edges, and cracks.

**NOTE**

For Double "L" Connector Link, refer to WP 011 03 for disassembly, assembly, and inspection instructions.

- e. Connector links for defective yoke and plate assemblies. Maximum of 1/32-in. play allowable in plate.
- f. Torque seal unbroken with yoke and plate assemblies installed with knurled portion facing up and screwheads facing outboard (Figure 7). (QA)



**Figure 7. Torque Seal Unbroken**

**12. PILOT PARACHUTE AND 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. Seams area at crown for seam separation.
- d. Spring assembly for distortion.
- e. Loose or broken tacking (4 places) at bottom of the coil spring.
- f. Connector strap for cuts, tears, burns, fraying, and 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.
- i. Proper length is 23 1/2 ± 1/2-in. unattached.

**13. HARNESS AND RISERS.**

- 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. Elastic keepers for condition, number (6), and proper location.
- c. Triangle links for damage, corrosion, and security of attachment.
- d. Ejector snaps and adapters for damage, corrosion, security of attachment, and ease of operation.

**14. CONTAINER AND BACKPAD.**

- 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 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. Proper length is 9 1/4 ± 1/4-in. measured with no tension from end of one hook to end of other hook.
- f. Spring opening eyes (8) for security of attachment.
- g. Ripcord release pocket slide fastener for proper operation.

h. Backpad for contamination, cuts, tears, burns, loose or broken stitching, missing or defective keepers and snap fasteners.

i. Proper attachment of back pad to container.

**15. RIPCORDER AND RIPCORDER POCKET.**

a. Ripcord cable for corrosion, bends, fraying, broken strands, and security of swaged terminal 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 for corrosion, bends, dents, loose swaged end ferrules, breaks, and cracks.

e. Pocket fabric areas and elastic for contamination, cuts, tears, burns, fraying, loose or broken stitching.

f. Pocket for loose or broken tackings.

**16. PACKING.**

**17. AUTOMATIC PARACHUTE RIPCORDER RELEASE ASSEMBLY AND ARMING (IF INSTALLED).**

**NOTE**

Right side of release assembly contains the aneroid leak detector.

**WARNING**

Ripcord release with proper altitude setting, time delay cartridge, arming cable housing, and lanyard assembly must be used.

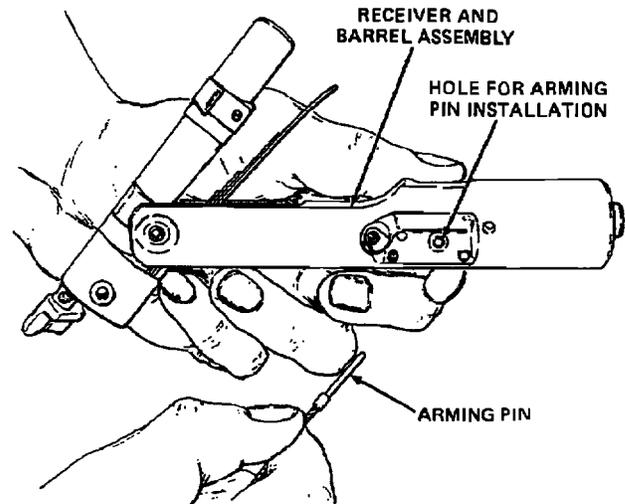
a. Ensure ripcord release has proper altitude setting, arming cable housing, and lanyard assembly. (QA)

b. Ensure arming cable housing is routed through hole in left side of release pocket and button hole in left side of container.

c. Insert arming cable into cable housing.

d. Attach clip retainer to cable housing.

e. With receiver and barrel assembly in the open position, install arming pin release assembly by inserting and locking (arming pin is fully seated when an audible click is heard) the arming pin into the arming pin retainer, ensuring the arming cable housing exits out the left side of container (Figure 8). (QA)



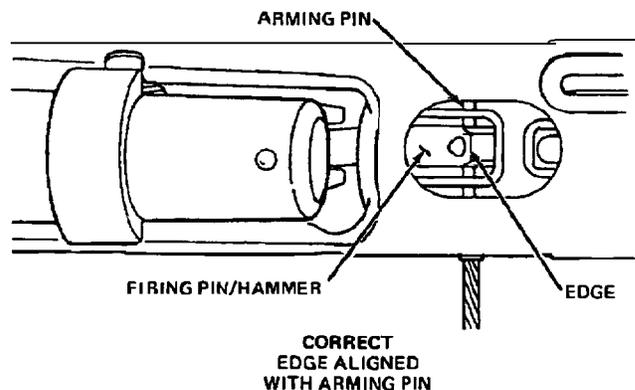
6.2-5369

**Figure 8. Installation of Arming Pin**

**WARNING**

To ensure proper penetration of cartridge primer; firing pin/hammer assembly must be completely retracted. If edge where curved surface meets flat surface of hammer assembly is not aligned directly above arming pin, release assembly is not properly armed.

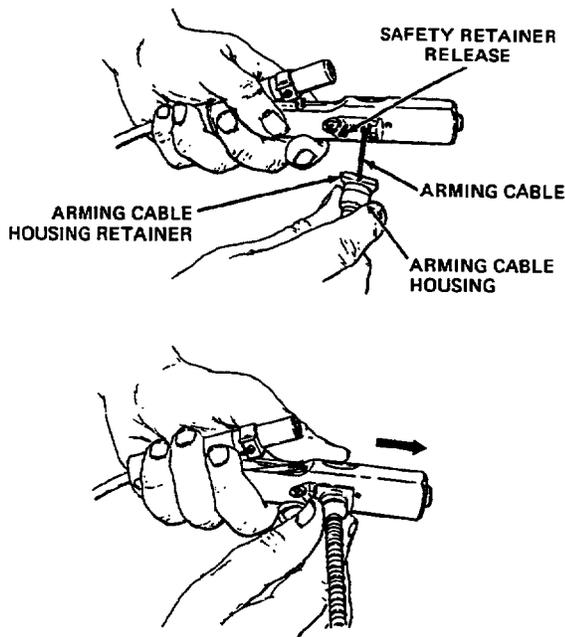
f. Ensure that firing pin/hammer assembly is completely retracted. The firing pin/hammer is completely retracted if top edge of hammer is aligned above arming pin (Figure 9). (QA)



6.2-5370

**Figure 9. Verification of Firing Pin/Hammer Retraction**

g. Connect arming cable housing retainer to receiver and barrel assembly. Ensure that safety retainer secures housing to receiver (Figure 10).



6.2-5371

Figure 10. Attachment of Arming Cable Housing

**WARNING**

Complete arming and installation is mandatory from this point as a safety measure.

h. Enter nomenclature, part number, lot number DODIC, date of manufacture, can open date, and expiration date on Parachute Record (OPNAV 4790/101). (QA)

**WARNING**

Before installing delay cartridge in the automatic parachute release, be sure that the arming pin has been inserted thru both the hammer and lock.

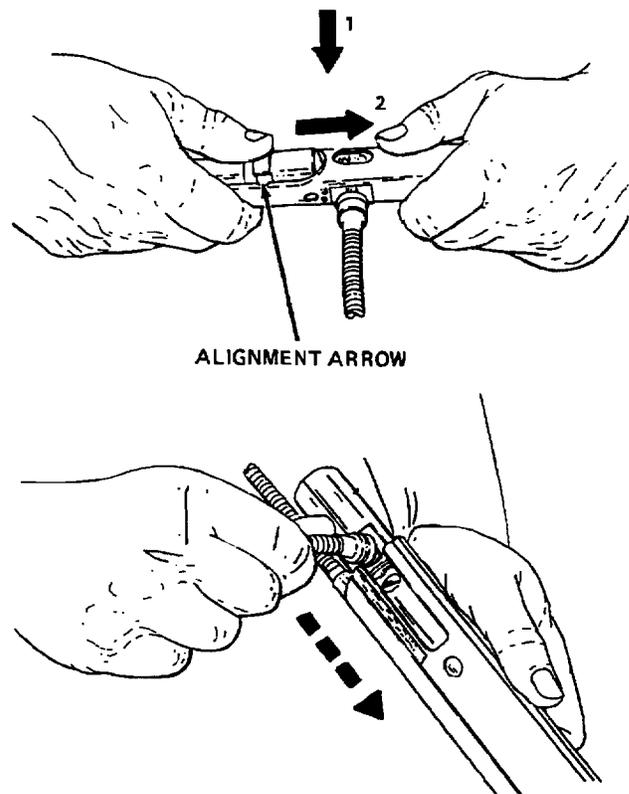
i. Insert proper cartridge per WP 011 04.

**WARNING**

If arming pin is improperly installed, cartridge will fire while locking barrel.

j. While pressing barrel down, look thru inspection hole in receiver and ensure that hammer assembly does not swing toward firewall. If hammer swings, arming pin is improperly installed. Do not attempt to assemble release assembly further, as this could discharge cartridge. Disassemble improperly armed release assembly and rear.

k. Press barrel down into position in receiver. As barrel reaches proper position, exert forward pressure on snap-lock, causing snap-lock pins to lock barrel in position. Ensure that snap-lock is aligned with alignment arrow (Figure 11).



6.2-5372

Figure 11. Installation of Arming Pin

l. Position cover and power cable housing assembly with power cable facing container.

m. Position receiver and barrel assembly so that locking screw hole aligns with locking screw hole in cover and power cable housing assembly (Figure 11).

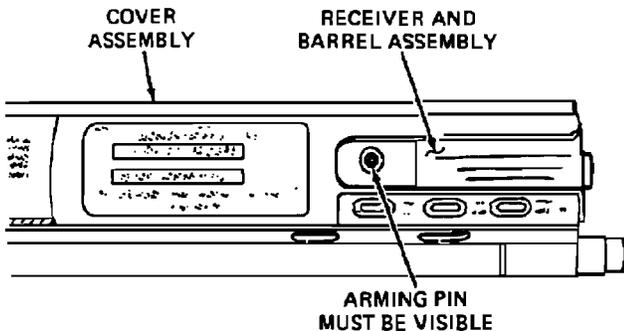
- n. Hold release assembly as shown in (Figure 11) and slide receiver and barrel assembly into cover and power cable assembly until holes for screws are aligned.
- o. Install cover locking screw and lockwasher. Apply torque seal to locking screw.

**WARNING**

After the automatic parachute release has been assembled with the delay cartridge, the firing pin is in a cocked position. Movement of the arming cable from the parachute release in excess of 0.5-in. will cause actuation of the device.

**18. AUTOMATIC PARACHUTE RIPCORD RELEASE ARMED CHECKOUT AND INSTALLATION (IF INSTALLED).**

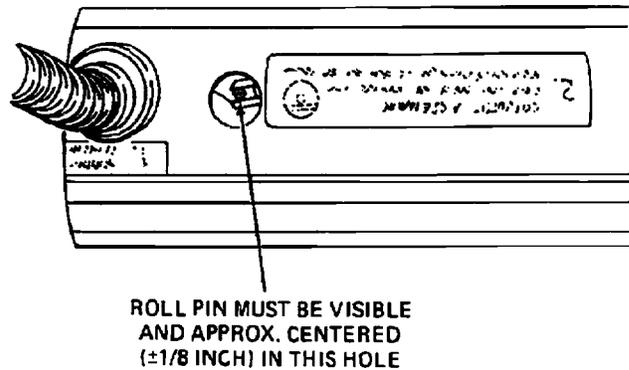
- a. Ensure arming device pin protrudes (about 1/32-in.) from arming pin retainer (Figure 12).



6.2-6016A

Figure 12. Ensure Arming Device Pin Protrudes

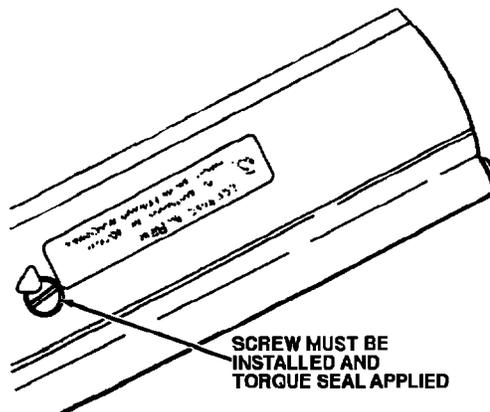
- b. Ensure roll pin is visible and centered  $\pm 1/8$ -in. in viewing hole (Figure 13).



6.2-6016B

Figure 13. Ensure Roll Pin is Visible

- c. Ensure cover locking screw is installed, and torque seal is applied (Figure 14).



6.2-6016C

Figure 14. Ensure Cover Locking Screw is Installed

- d. Ensure aneroid indicator is in proper position in relation to local elevation (Figure 15).

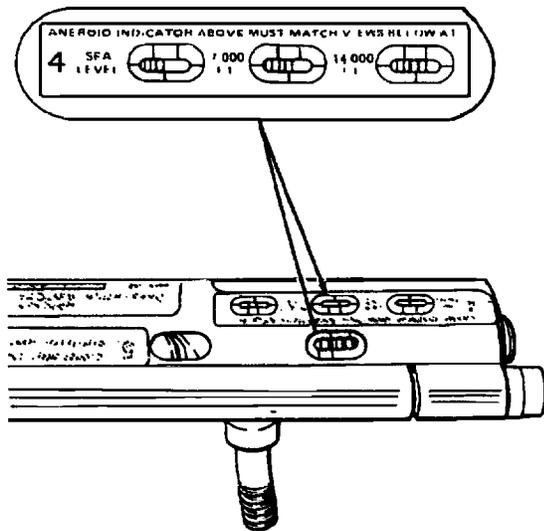


Figure 15. Ensure Aneroid Indicator is in Proper Position 6.2-6016D

e. Ensure cartridge is installed. Look thru port and verify cartridge rim is visible (Figure 16). (QA)

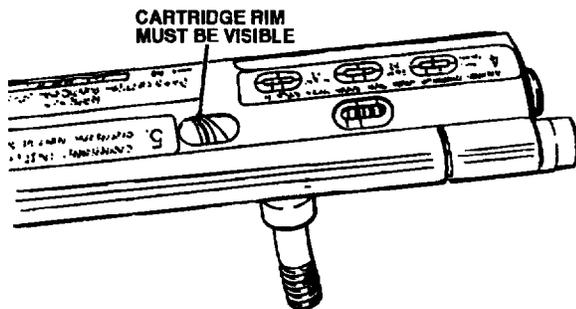


Figure 16. Ensure Cartridge is Installed 6.2-6016E

f. Completely insert ripcord release into pocket and close slide fastener and flap.

**19. WHIPPING AND FOLDING OF CANOPY.**

a. The packer and helper shall lift the suspension line on each side of nameplate gore up and out. The skirt hem between lines shall be taut so that canopy apex can be seen on inside. While holding suspension lines up, each man shall whip the gore hanging from line outwards to prepare canopy for folding (Figure 17).

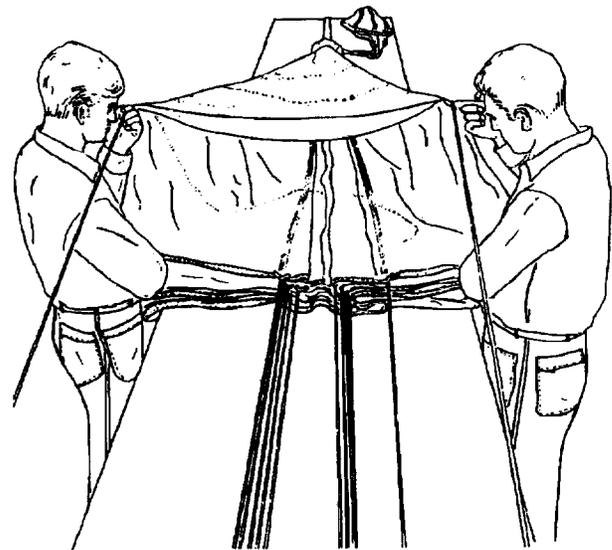


Figure 17. Lift Suspension Line on Each Side of Nameplate 6.2-5184A

b. Draw next suspension line upwards to suspension line in hand, using a rapid, circular motion (Figure 18).

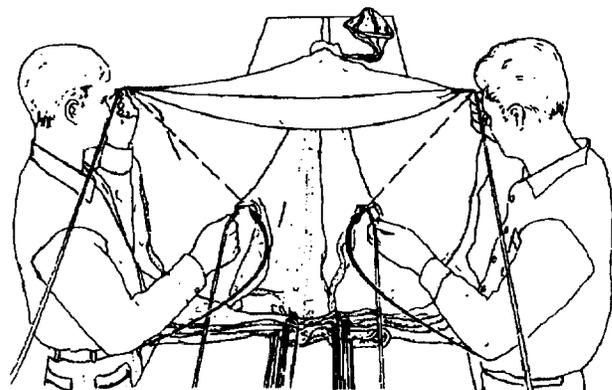
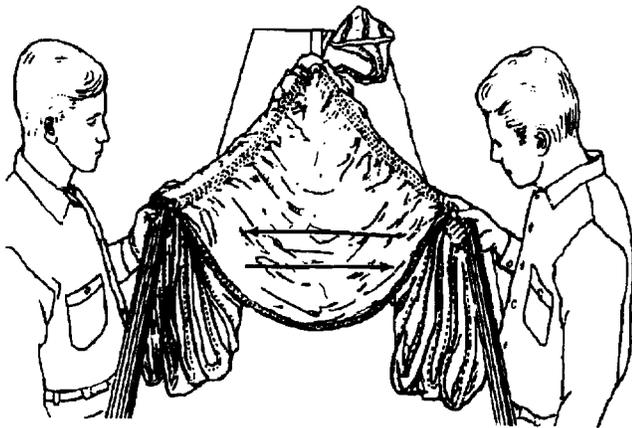


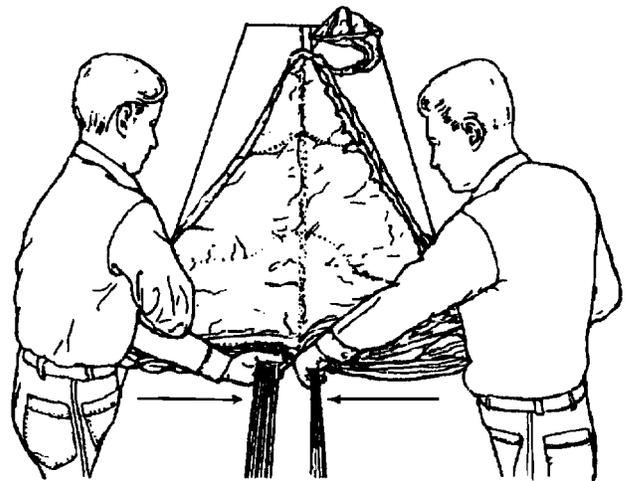
Figure 18. Draw Next Suspension Line Upwards 6.2-5184B

c. Continue whipping operation for all gores. Ensure that radial seams are not overlapped by gore material. Move whipped gores rapidly back and forth across packing table (Figure 19).



6.2-5184C

Figure 19. Continue Whipping Operation



6.2-5185A

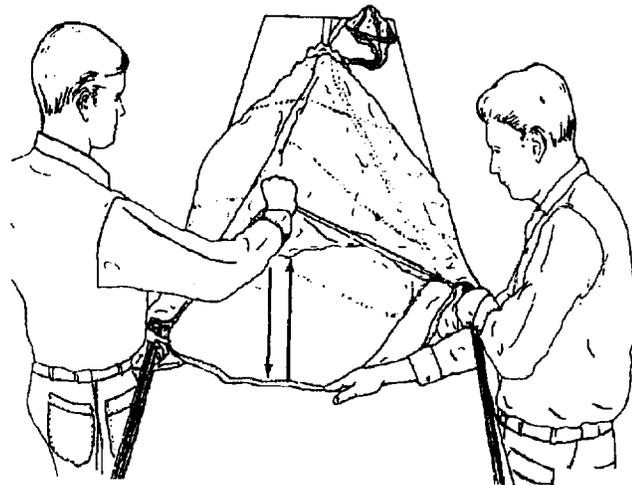
Figure 21. Draw Respective Gores to Center

d. The two groups of suspension lines shall be restricted to the edges of the packing table, with folded gores hanging over sides. Packer and helper shall grasp all folds at the 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 20).

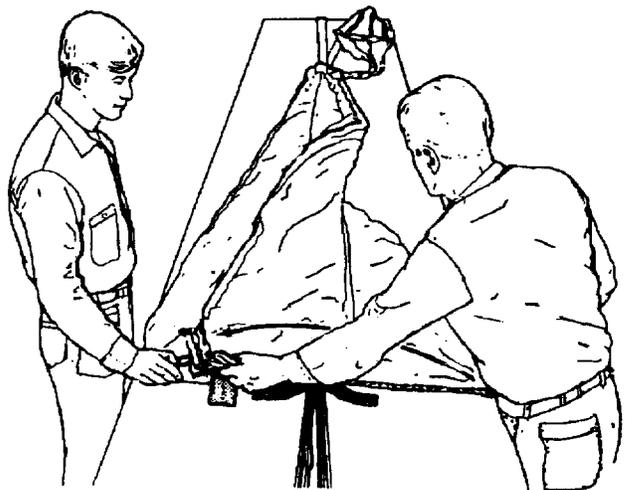
g. Insert suspension line groups into their respective slots in small line separator and place shot bag on lines. Packer shall place second shot bag across skirt hem on left side of suspension lines.

h. Helper shall rotate all gores as a group, except bottom gore, from helper's side of packing table (Figure 22).



6.2-5184D

Figure 20. Packer Shall Flap Top Gore

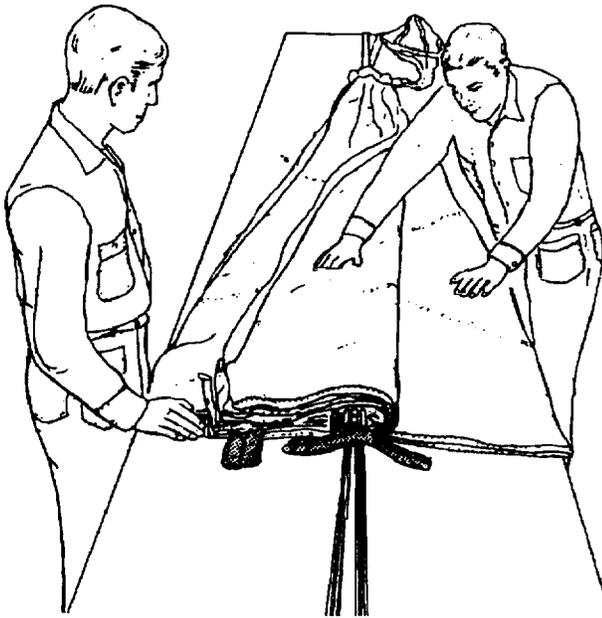


6.2-5185B

Figure 22. Rotate All Gores To Packer's Side

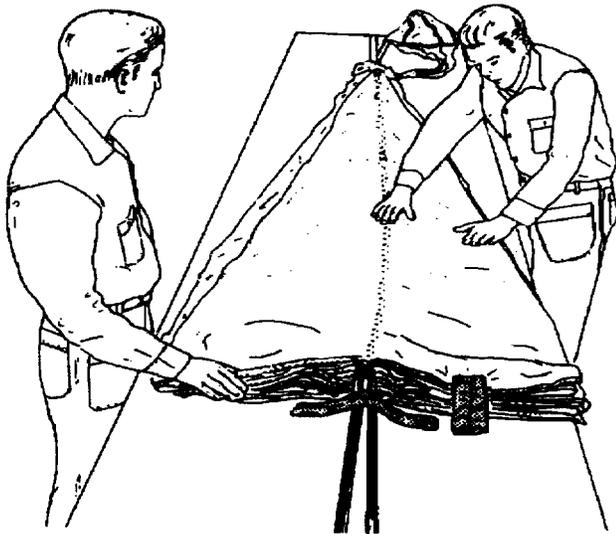
f. On signal, packer and helper shall draw their respective gores, at skirt hem centers, toward table edge, while at same time bringing suspension line groups to center of packing table (Figure 21).

i. Helper shall straighten and smooth bottom gore on helper's side of packing table throughout its length to apex (Figure 23).



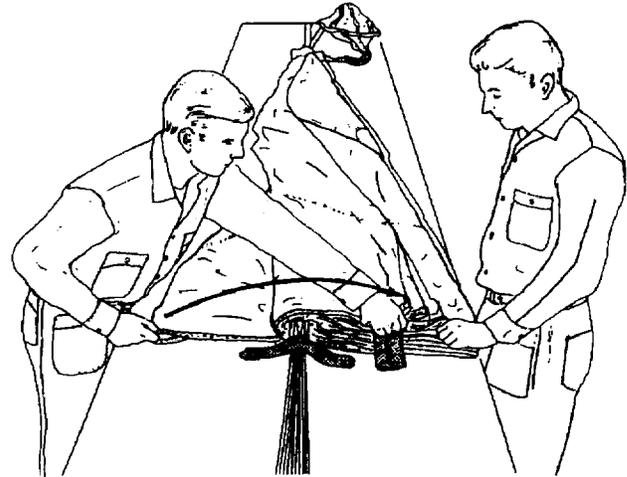
**Figure 23. Helper Shall Straighten and Smooth Gores** 6.2-5185C

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 24).



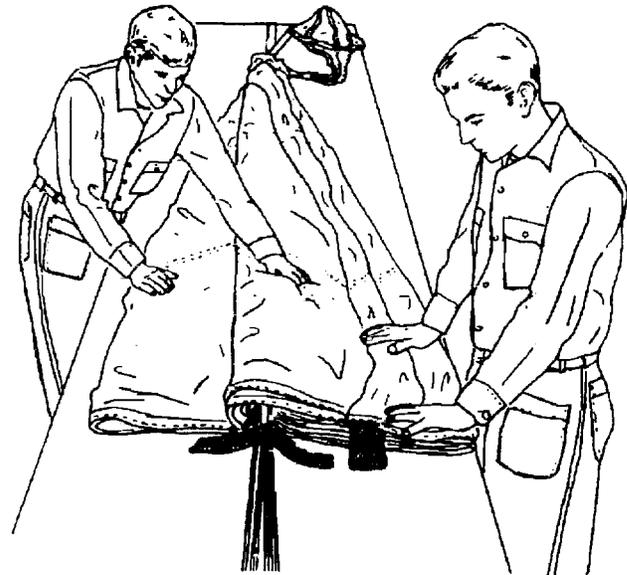
**Figure 24. Packer Return Folded Gores Above Shot Bag** 6.2-5185D

k. Packer shall rotate all gores as a group, except bottom gore, from packer's side to helper's side of packing table (Figure 25).



**Figure 25. Packer Shall Rotate All Gores** 6.2-5186A

l. Packer shall straighten and smooth bottom gore on packer's side of packing table throughout its length to apex (Figure 26).



**Figure 26. Packer Shall Straighten and Smooth Gores** 6.2-5186B

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 skirt hem (Figure 27).

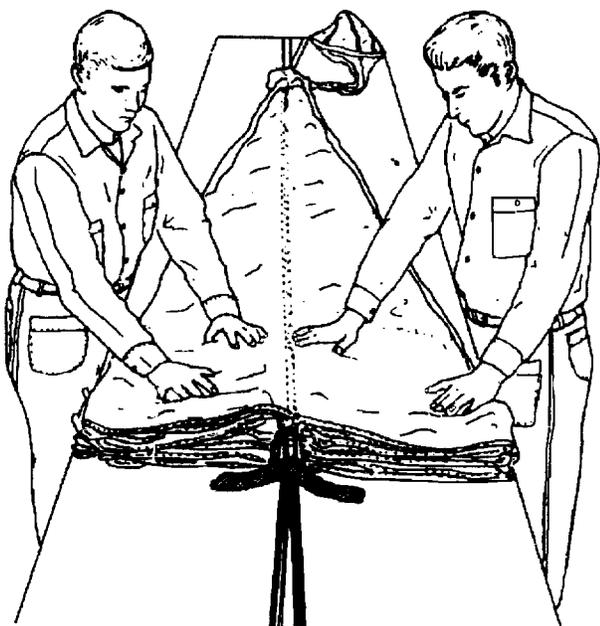


Figure 27. Helper Shall Return Gores Above Shot Bag 6.2-5186C

n. Packer and helper shall grasp skirt hem at mid-section of gores and rotate towards suspension lines (Figure 28).

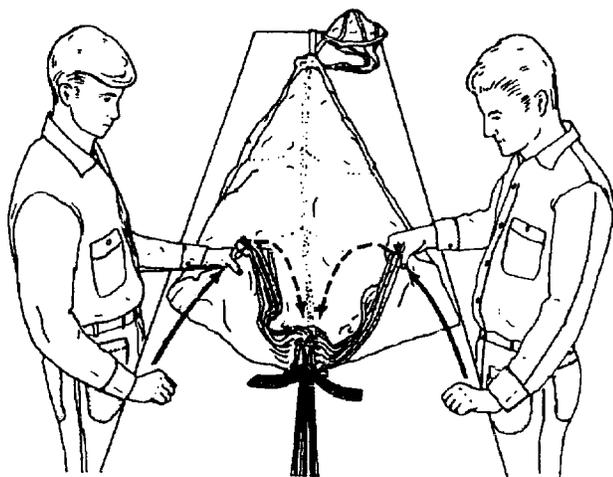


Figure 28. Grasp Skirt Hem and Rotate Towards Suspension Lines 6.2-5186D

o. Packer and helper shall grasp the bottom most gore fold and extend outwards, aligning the edge of the skirt hem and suspension line "V" tab reinforcements. The remaining 10 gores shall be aligned in a similar manner. Ensure that all "V" tab reinforcements face same direction and that 11 gores have been counted on each side (Figure 29).

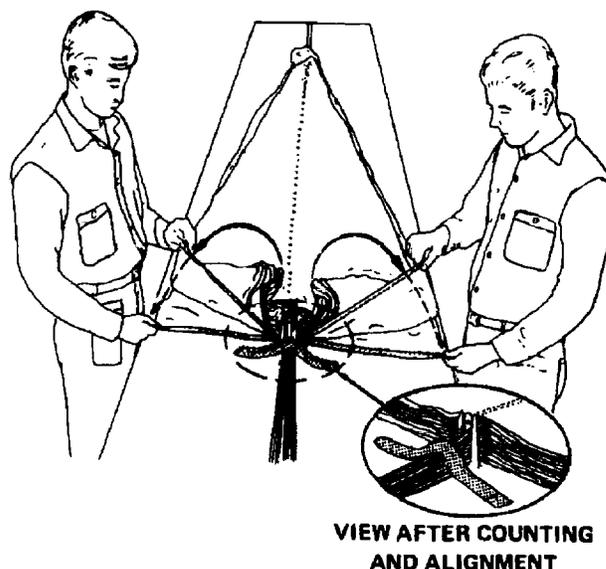


Figure 29. Grasp Gore Folds and Extend Outwards 6.2-6006A

p. Canopy shall be folded by packer placing his hand on helper's side of skirt hem at center. Helper shall rotate gores to center of canopy (Figure 30).

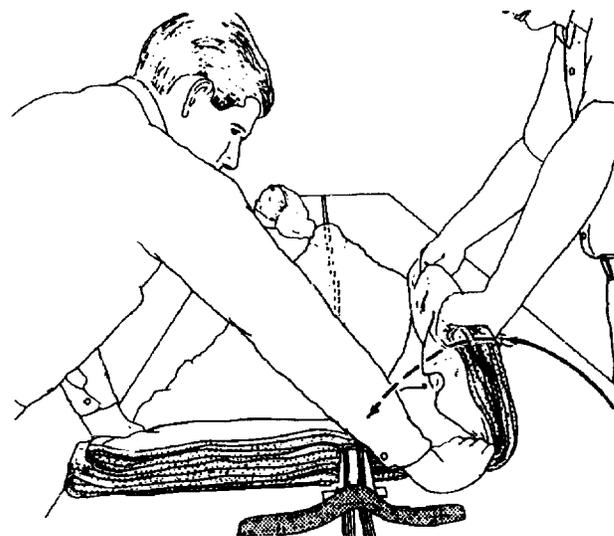
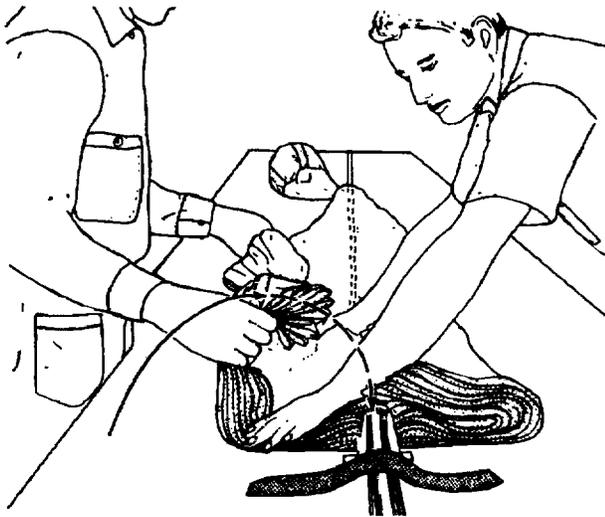


Figure 30. Helper Rotate Gores to Center of Canopy 6.2-6006B

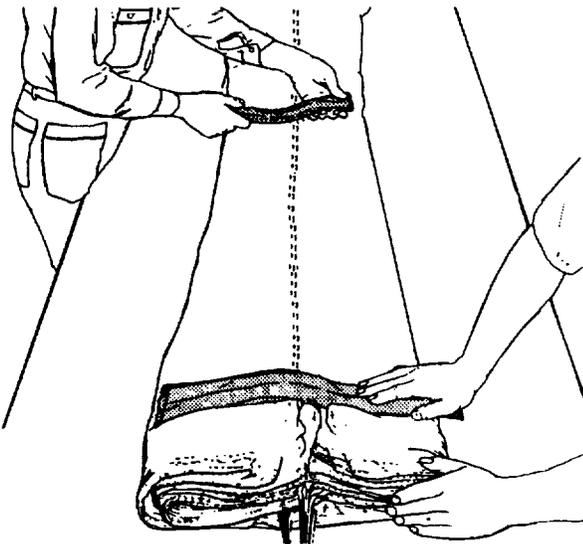
q. Helper shall place his hand on packer's side of skirt hem at center. Packer shall rotate gores to center of canopy. The two groups of folded gores shall butt together. Note that canopy cannot be folded throughout entire length but breaks about two-thirds the distance to apex (Figure 31).



6.2-6006C

Figure 31. Packer Rotate Gores to Center of Canopy

r. Place one shot bag slightly behind skirt hem and another on middle of canopy. Remove small line separator (Figure 32).



6.2-6006D

Figure 32. Placement of Shot Bags

**20. SUSPENSION LINES STOWAGE WITHOUT RIPCORD RELEASE.**

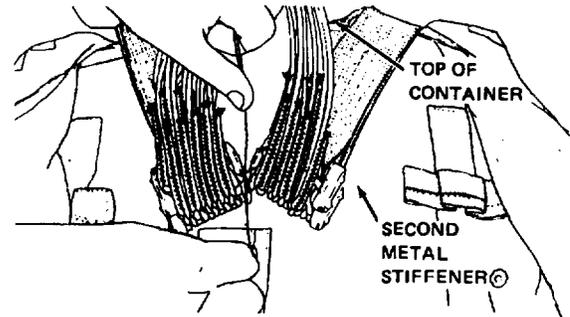
**NOTE**

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

a. Release tension from canopy and remove tension strap and place pilot parachute on top of canopy.

b. Remove connector links from tension hooks and remove tension hooks from packing table.

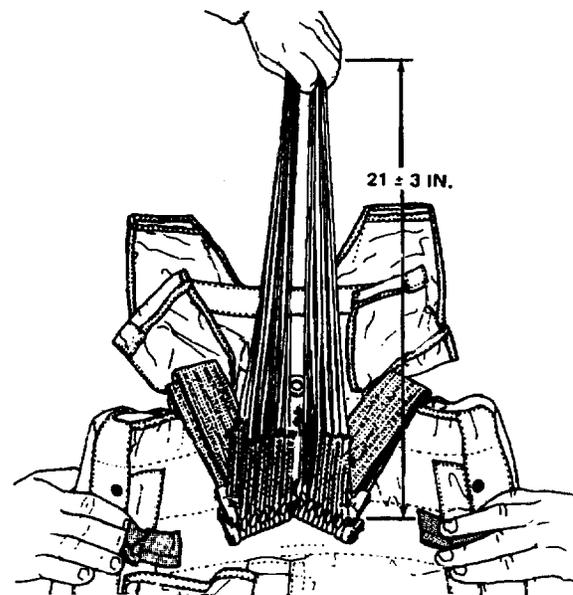
c. Place connector links on centerline of container above second metal stiffener from top edge. Tack connector links to cloth on top of second metal stiffener with one turn of size 3 thread, single and waxed, or one turn of size FF thread, doubled and waxed; tie off (Figure 33).



6.2-6018A

Figure 33. Tack Connector Links to Cloth

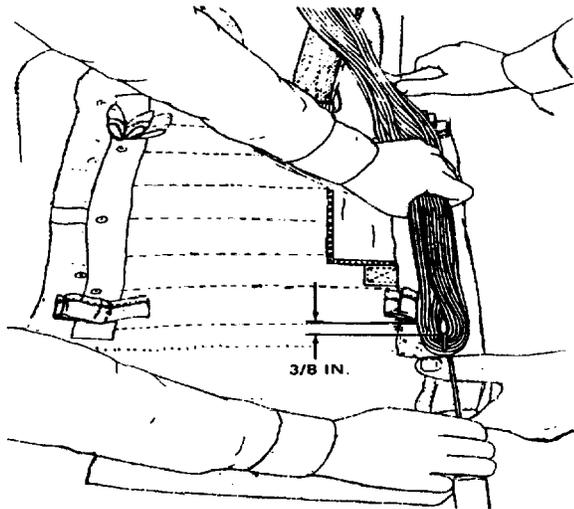
d. Packer shall grasp both groups of suspension lines in his left hand  $21 \pm 3$ -in. from connector links to make first bight. Adjustment in this measurement may be necessary to obtain the required  $21 \pm 3$ -in. between the last stow and canopy skirt hem specified in Paragraph m, below. Ensure that there is an equal amounts of suspension line in both groups, from connector links to hand. Canopy shall be drawn along packing table only in enough lengths to permit each bight to be performed (Figure 34).



6.2-6018B

Figure 34. Grasp Both Groups of Suspension Line

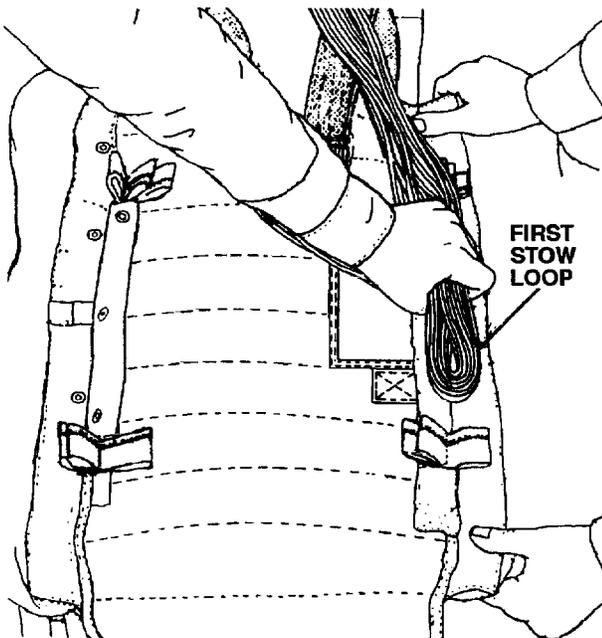
e. Packer shall form first bight in suspension lines over hesitator loop farthest from canopy and closest to helper. Draw bight 3/8-in. past hesitator loop edge (measured from loop edge to end of hook). Helper shall assist packer during stowing operations by holding pack steady and by holding completed bight while next bight is being formed (Figure 35).



6.2-6018C

Figure 35. Form First Bight of Suspension Lines

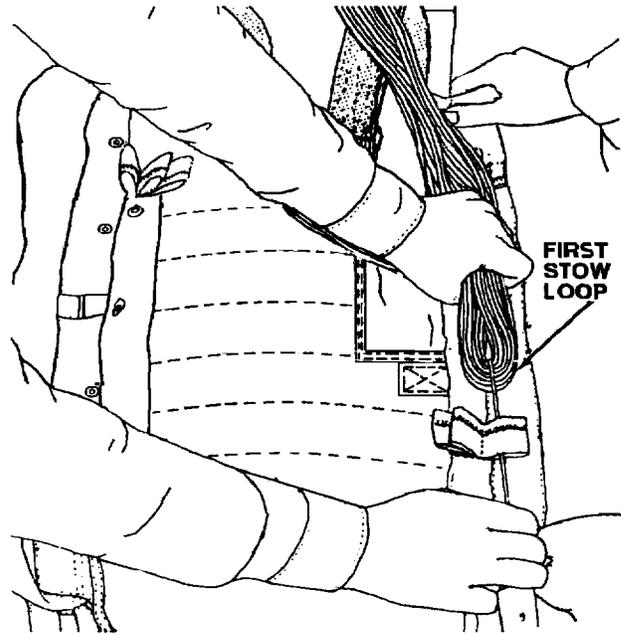
f. Keeping light tension on suspension line bight with packing hook, reposition and deposit bight in front of hesitator loop. Carefully withdraw packing hook (Figure 36).



6.2-5244A

Figure 36. Light Tension on Suspension Lines

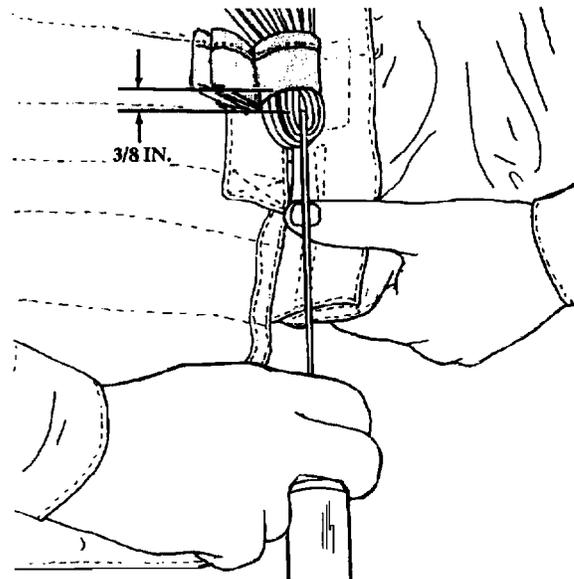
g. Packer shall engage hook in suspension lines and draw bight thru hesitator loop (Figure 37).



6.2-5244B

Figure 37. Engage Hook in Suspension Lines

h. After stowing bight, there shall be 3/8-in. clearance between packing hook and hesitator loop (Figure 38).



6.2-5244C

Figure 38. After Stowing Bight There Should Be 3/8-in Clearance

i. Packer shall draw suspension lines and folded canopy toward container to form another bight. The second bight shall be drawn thru hesitator loop opposite first one. Maintain 3/8-in. clearance between packing hook and hesitator loop (Figure 39).

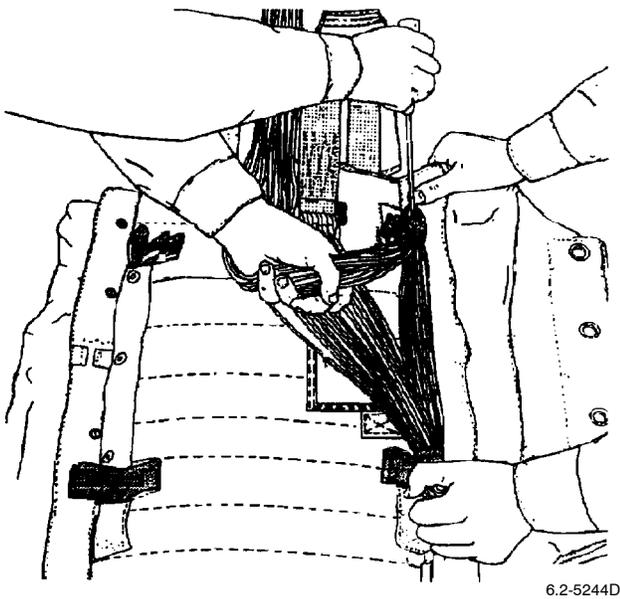


Figure 39. Draw Suspension Lines and Folded Canopy Towards Container

6.2-5244D

j. Third bight is formed in same manner as in preceding steps. Bight is pulled thru hesitator loop next to first stow. Stow bight 4 thru 6 in same manner.

k. Cross suspension lines over automatic release pocket to opposite side of container and stow bight 7 (Figure 40).

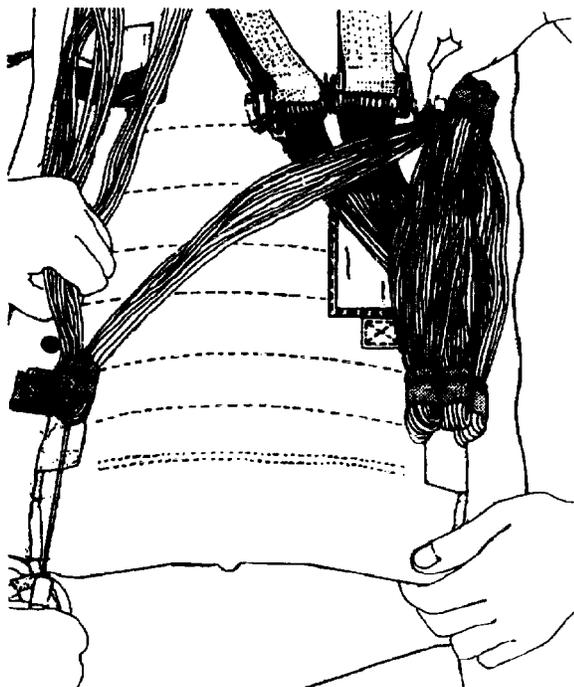


Figure 40. Cross Suspension Lines Over Automatic Release Pocket

6.2-6019A

l. Continue stowing suspension line bights in hesitator loops 8 thru 12. As each stow is completed, ensure suspension lines are not rotated or loose and that there are no suspension lines left out of hesitator loops. Stowed bight shall extend 3/8-in. beyond hesitator loops. Straighten all hesitator loops using temporary locking pin (Figure 41).

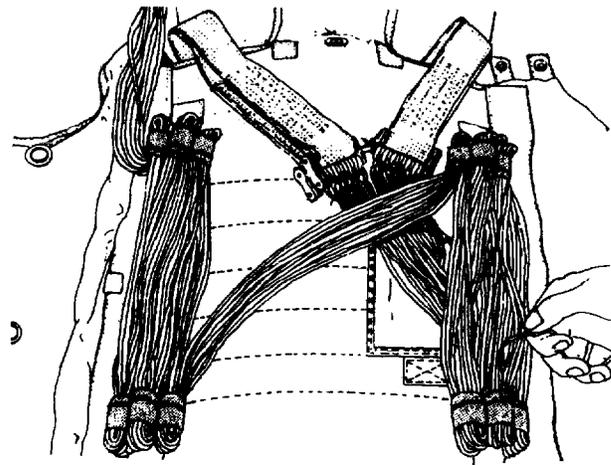


Figure 41. Continue Stowing Suspension Line

6.2-6019B

m. When suspensions are in all hesitator loops, there shall be a distance of  $21 \pm 3$ -in. between last stow and canopy skirt hem. Remove shot bags from canopy (Figure 42). (QA)

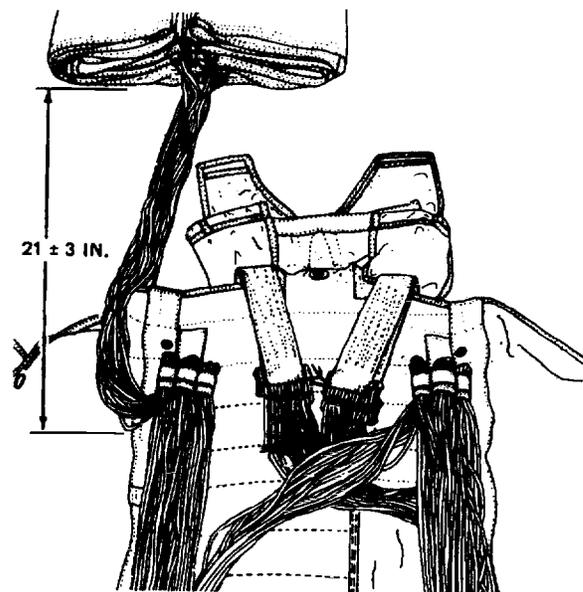
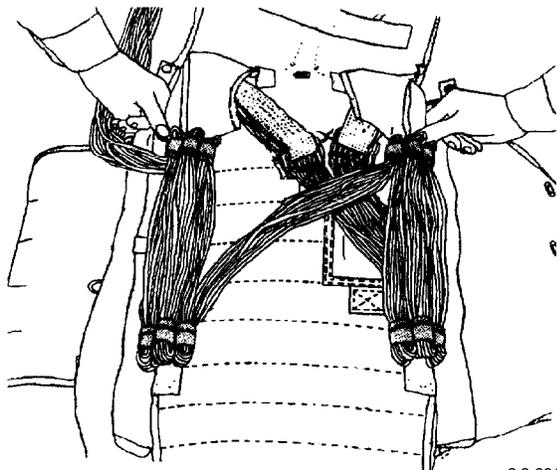


Figure 42. Distance Between Last Stow Should Be  $21 \pm 3$ -in.

6.2-6019C

n. Place riser protector flaps on top of risers (Figure 43).

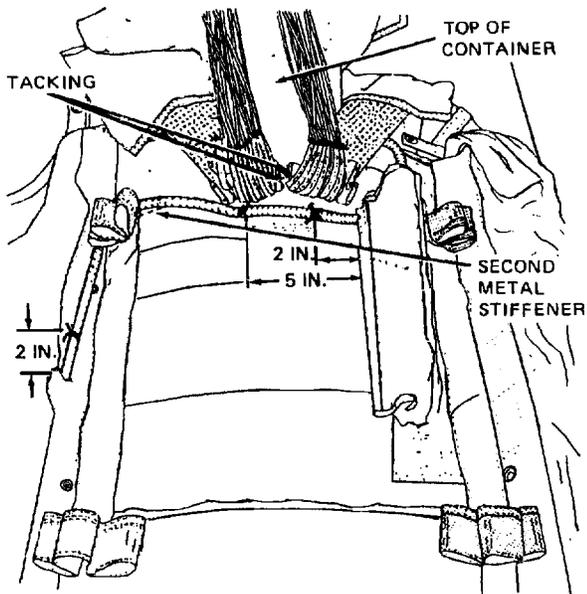


6.2-6019D

Figure 43. Placement of Riser Protector Flaps

**21. SUSPENSION LINES STOWAGE WITH RIPCORDER RELEASE.**

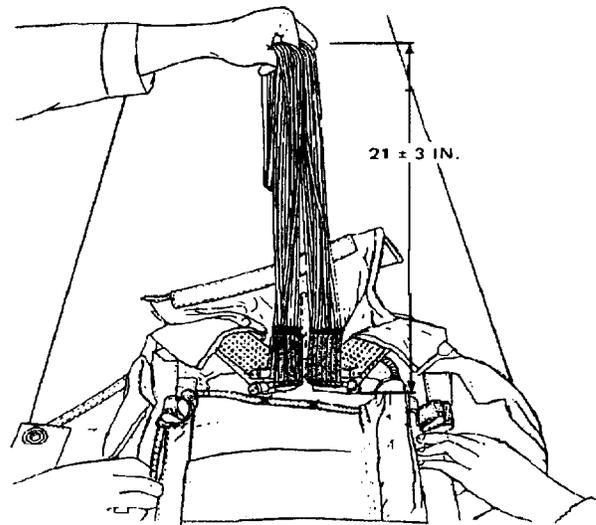
- a. Release tension from canopy and remove tension strap and place pilot parachute on top of canopy.
- b. Remove connector links from tension hooks and remove tension hooks from packing table.
- c. Place connector links in center of container on top of second metal stiffener from top edge. Connector links should be located directly above ripcord release arming cable housing. Tack connector links to cloth above second metal stiffener using one turn of size 3 thread, single and waxed, or one turn of size FF thread, doubled and waxed; tie off (Figure 44).



6.2-6018D

Figure 44. Placement of Connector Links

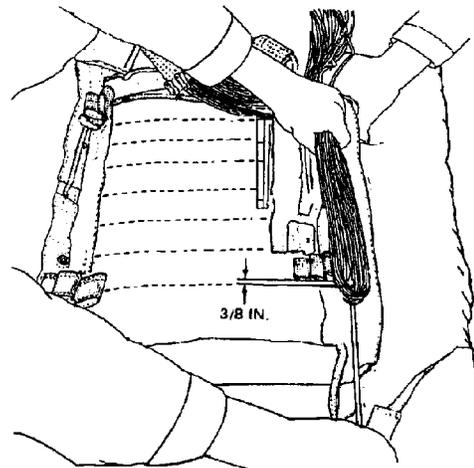
d. Packer shall grasp both groups of suspension lines in his left hand  $21 \pm 3$ -in. from connector links to make first bight. Adjustment in this measurement may be necessary to obtain the required inches between the last stow and canopy skirt hem in Paragraph m, below. Ensure there are equal amounts of suspension line in both groups, from connector links to hand. Canopy shall be drawn along packing table only in sufficient lengths to permit each bight to be formed (Figure 45).



6.2-6018E

Figure 45. Grasping Both Groups

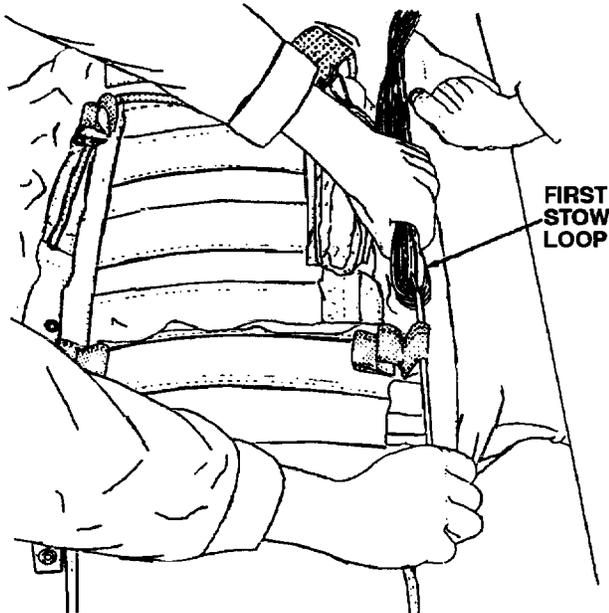
e. Packer shall form first bight in suspension lines over hesitator loop farthest from canopy and closest to helper. Draw bight  $3/8$ -in. past hesitator loop edge (measured from loop edge to end of hook). Helper shall assist packer during stowing operations by holding pack steady and by holding completed bight while next bight is being formed (Figure 46).



6.2-6018F

Figure 46. Form First Bight

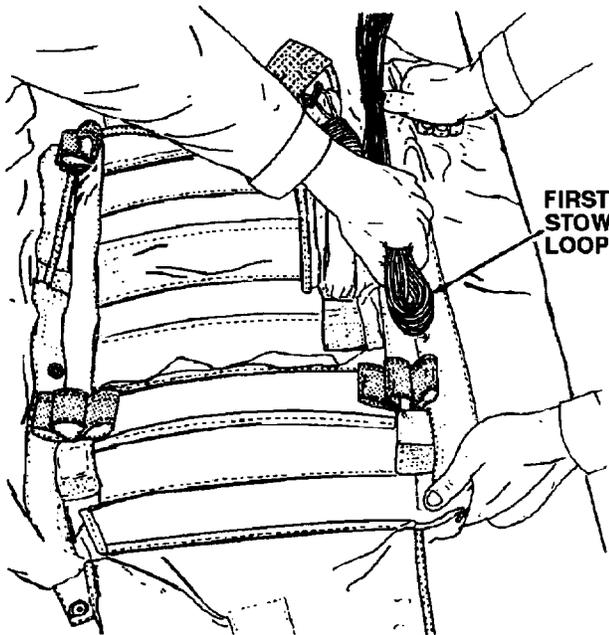
f. Keeping light tension on suspension line bight with packing hook, reposition and deposit bight in front of hesitator loop. Carefully withdraw packing hook (Figure 47).



6.2-5244E

Figure 47. Keep a Light Tension on Suspension Lines

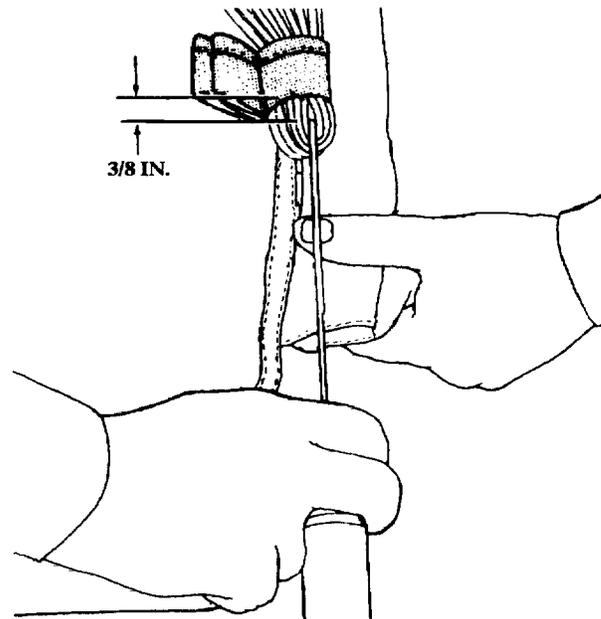
g. Packer shall engage hook in suspension lines and draw bight thru hesitator loop (Figure 48).



6.2-5244F

Figure 48. Packer Engaging Hook

h. After stowing bight, there shall be 3/8-in. clearance between packing hook and hesitator loop (Figure 49).



6.2-5244G

Figure 49. 3/8-in. Clearance Between Hook and Hesitator Loop

i. Packer shall draw suspension lines and folded canopy toward container to form another bight. The second bight shall be drawn thru hesitator loop opposite first one. Maintain 3/8-in. clearance between packing hook and hesitator loop (Figure 50).



6.2-5244H

Figure 50. Draw Suspension Lines and Folded Canopy Towards Container

j. Third bight is formed in same manner as in preceding steps. Bight is pulled thru hesitator loop next to first stow. Stow bights 4 thru 6 in same manner.

k. Cross suspension lines over automatic release pocket to opposite side of container and stow bight 7 (Figure 51).

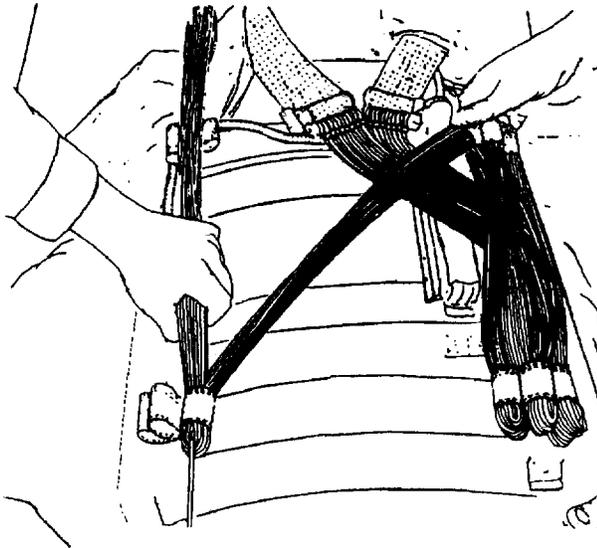


Figure 51. Cross Suspension Lines Over Automatic Release Pocket 6.2-6019E

l. Continue stowing suspension line bights in hesitator loops 8 thru 12, maintaining 3/8-in. clearance between packing hook and hesitator loop. As each stow is completed, ensure suspension lines are not rotated or loose and there are no suspension lines left out of hesitator loops. Straighten all hesitator loops using temporary locking pin (Figure 52).

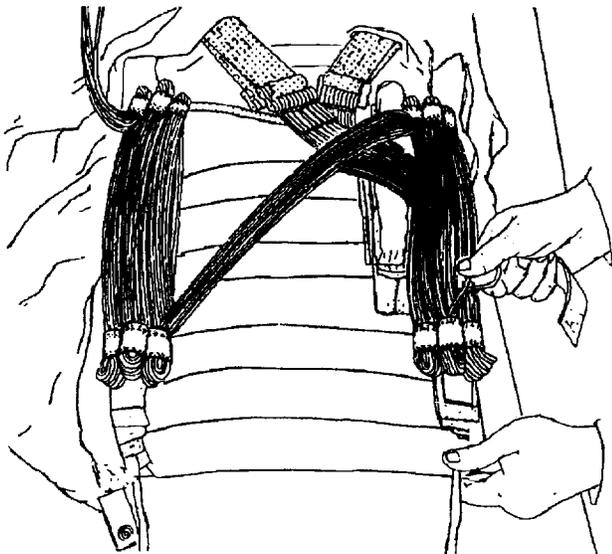


Figure 52. Continue Stowing Suspension Lines 6.2-6019F

m. When suspension lines are in all hesitator loops, there shall be 21 ± 3-in. between last stow and canopy skirt hem. Remove shot bags from canopy (Figure 53). (QA)

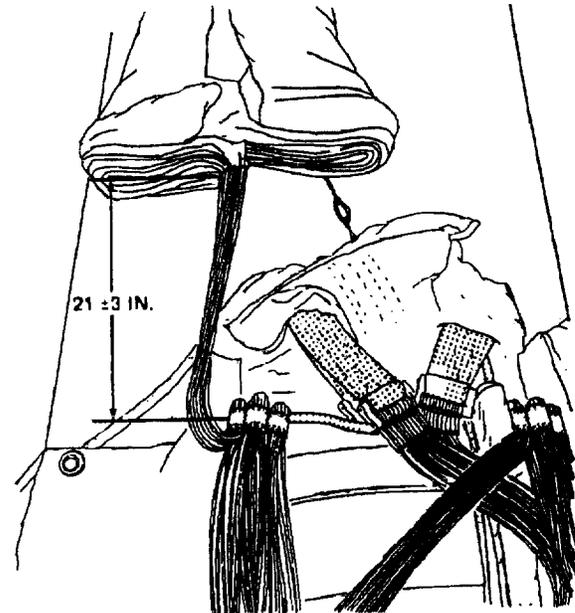


Figure 53. Leave 21 ± 3-in. After Last Stow and Canopy Skirt Hem 6.2-6019G

n. Place riser protection flaps on top of risers (Figure 54).

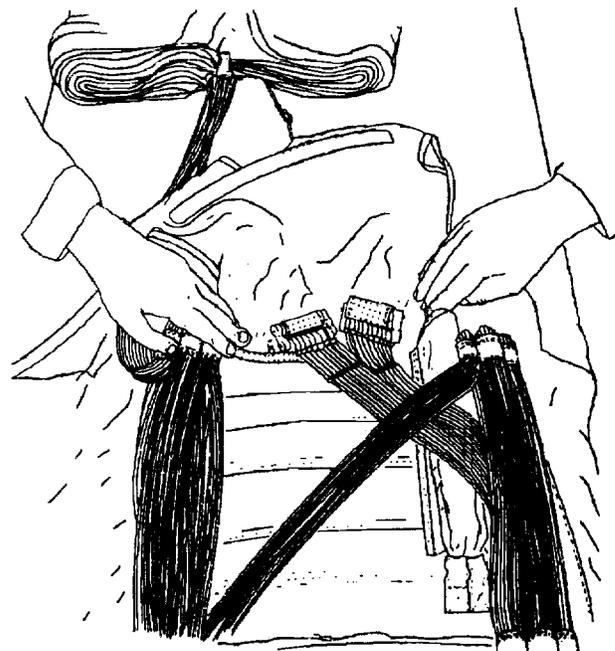
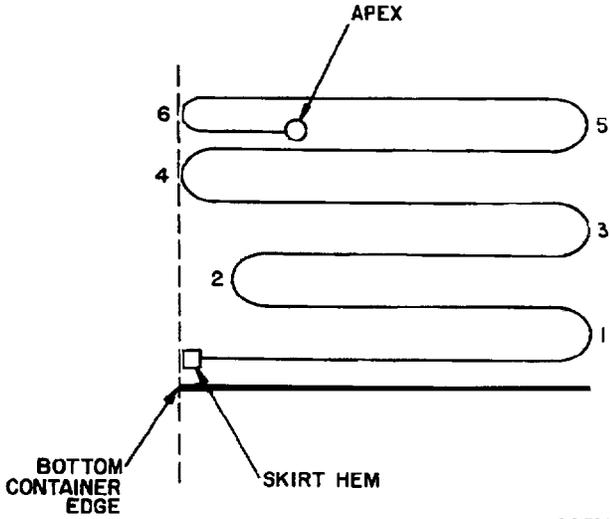


Figure 54. Placement of Riser Protector Flaps 6.2-6019H

**22. STOWAGE OF CANOPY.**

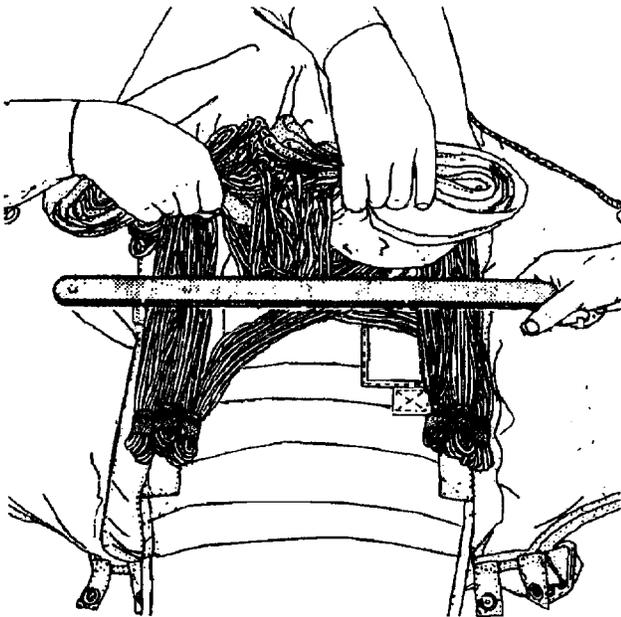
a. Six folds shall be made when stowing canopy. Use the following illustration as a guide while stowing canopy (Figure 55).



**Figure 55. Make Six Fold Before Stowing**

6.2-784

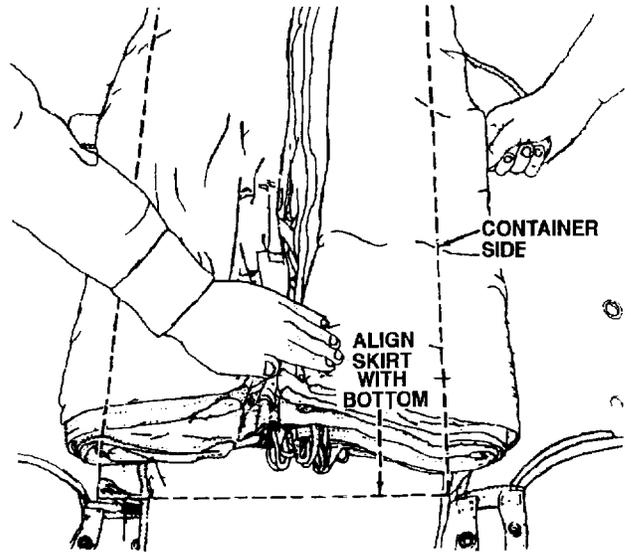
b. Helper shall place long bar over suspension lines at center of container. Packer shall grasp canopy skirt hem on each side of suspension lines and draw canopy across container (Figure 56).



**Figure 56. Placement of Long Bar**

6.2-5205A

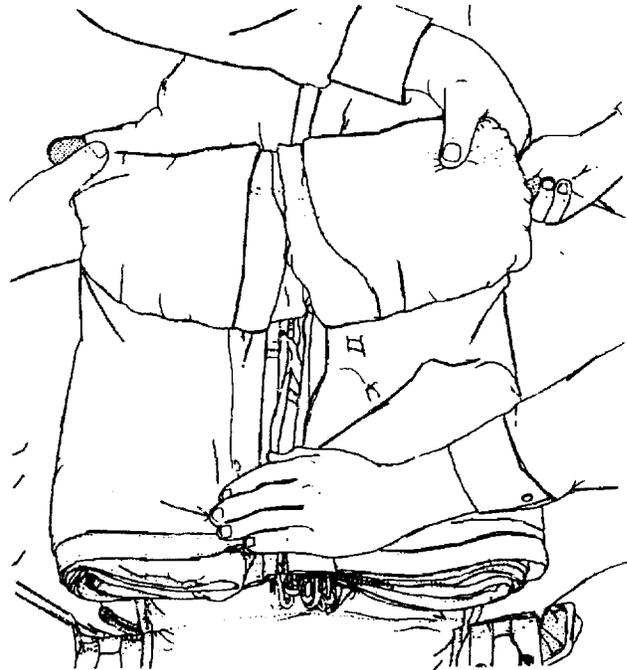
c. The skirt hem shall be aligned with bottom container edge. Allow folded canopy to spread about 2-in. over sides of container (Figure 57).



**Figure 57. Alignment of Skirt Hem**

6.2-5205B

d. To make first and second folds, helper shall remove bar from between canopy and container and place it on top of canopy, parallel with top container edge. Packer shall grasp canopy about one container length from long bar and draw it across container (Figure 58).



**Figure 58. Make First and Second Folds**

6.2-5205C

e. Second fold shall be positioned slightly behind skirt hem. Sides of canopy shall spread about 2-in. over sides of container (Figure 59).

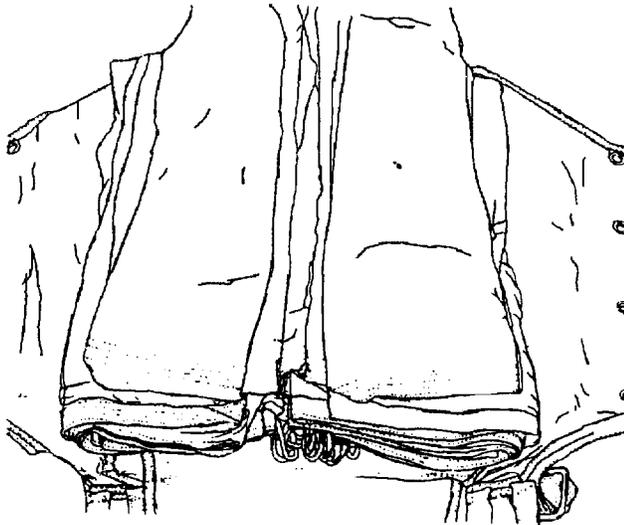


Figure 59. Positioning of Second Fold 6.2-6021A

f. 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 60).

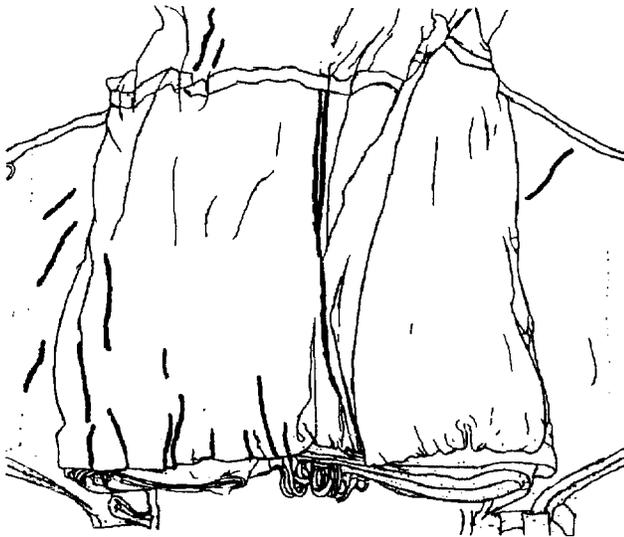


Figure 60. Make Third and Fourth Folds 6.2-6021B

g. Continue accordion folding rest of canopy into container, maintaining about 2-in. canopy spread over sides of container. As apex of canopy is drawn close to container, pilot parachute shall be placed back onto packing table (Figure 61).



Figure 61. Continue Accordion Folding of Canopy 6.2-788

h. 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 base plate (Figure 62).

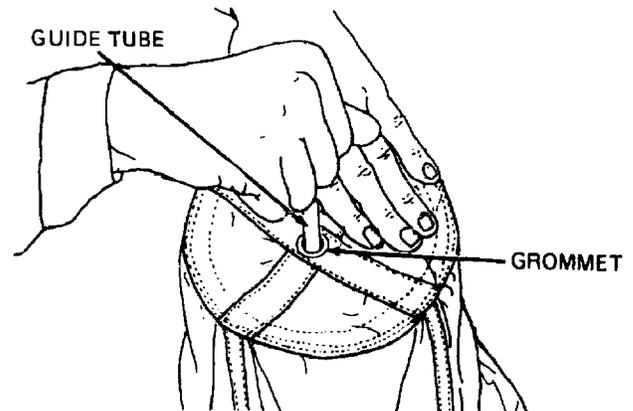
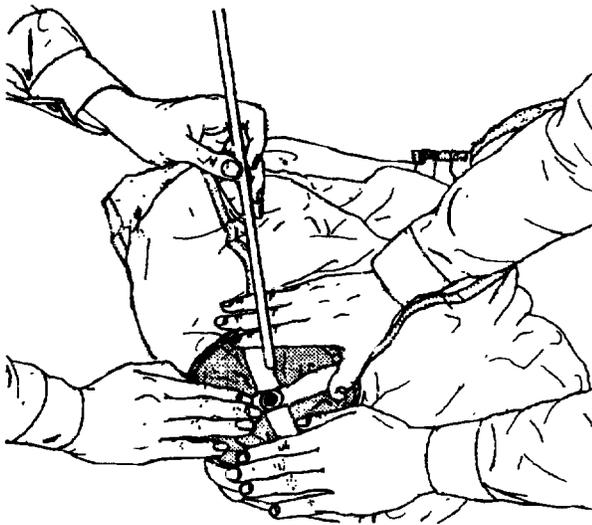


Figure 62. Position of Pilot Parachute 6.2-6021C

i. Compress pilot parachute spring and remove guide tube from locking cone. Locking cone shall protrude thru grommet. Insert temporary locking pin into to hole of locking cone (Figure 63).



6.2-6022A

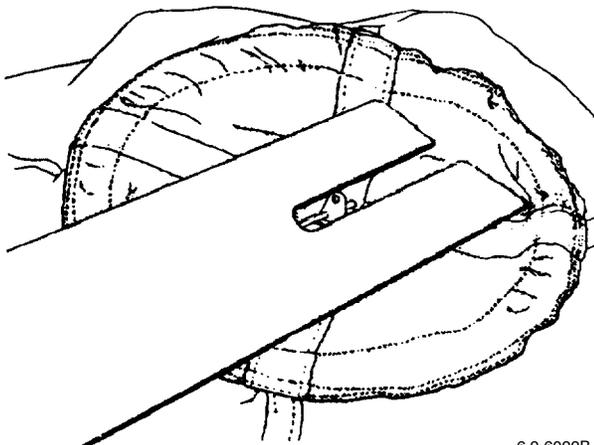
Figure 63. Compress Pilot Parachute Spring

**WARNING**

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

j. Remove any pilot parachute cloth twisted around or entangled in compressed spring.

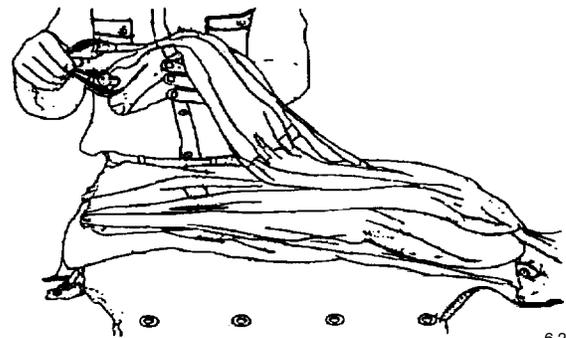
k. Insert temporary locking pin plate into bottom hole of locking cone and then remove temporary locking pin from top hole of locking cone (Figure 64).



6.2-6022B

Figure 64. Insert Temporary Locking Pin Plate

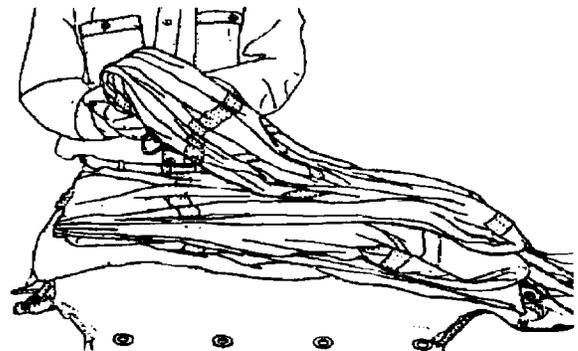
l. When sufficient canopy remains to continue folding operation, canopy shall be folded under 9-in. from apex (Figure 65).



6.2-789

Figure 65. Continue to Fold Canopy

m. Folded under portion of canopy shall be positioned on top of canopy to form uppermost fold. Adjust canopy so folds are neat and square (Figure 66).

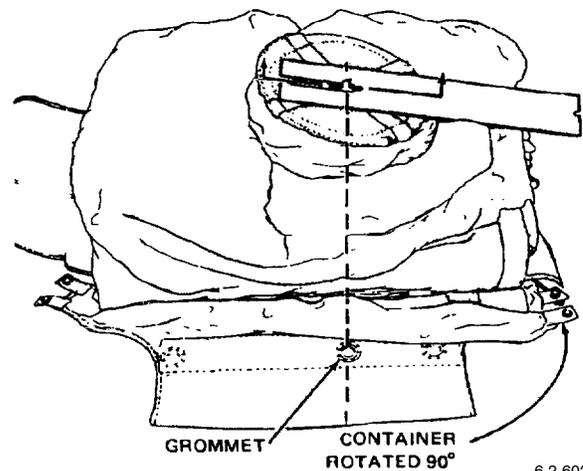


6.2-790

Figure 66. Fold Upper Portion of Canopy

n. Inspect pilot parachute connector strap and remove entanglements.

o. Place pilot parachute on top of canopy with pin plate positioned on helper's side of table. Align pilot parachute locking cone with second side flap grommet from bottom end of container. Roll pilot parachute cloth under outer edge of crown (Figure 67).

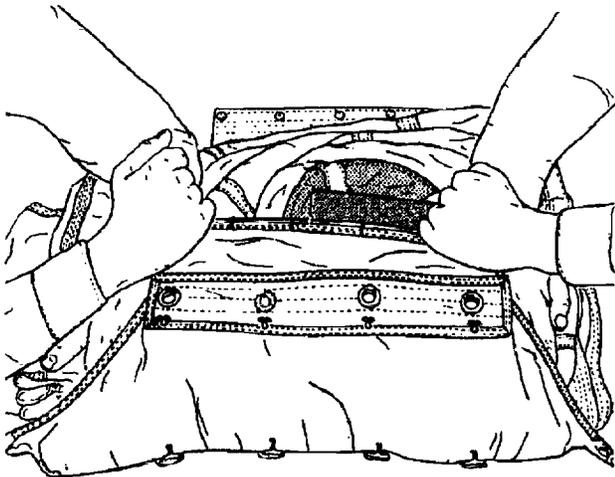


6.2-6022E

Figure 67. Placement of Pilot Parachute

**23. CLOSING OF CONTAINER WITHOUT RIPCORD RELEASE INSTALLED.**

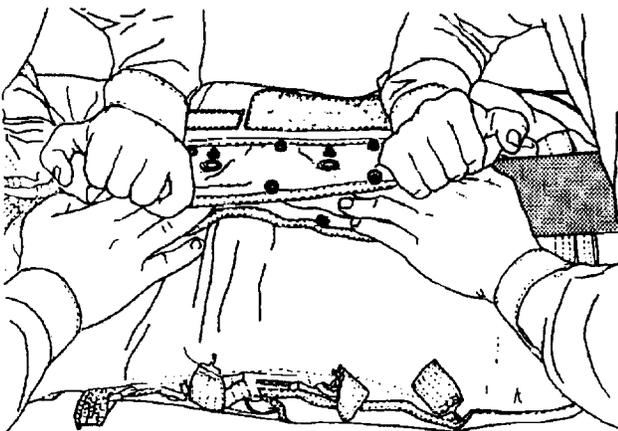
a. Packer and helper shall hold canopy and compress pilot parachute in place and pull the container side flap with locking cone over canopy. Place second grommet from container bottom over locking cone in pilot parachute (Figure 68).



6.2-5206A

**Figure 68. Hold Canopy and Compress Pilot Parachute**

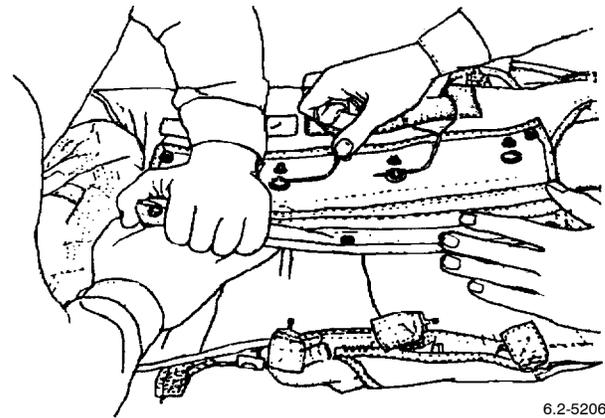
b. Packer and helper shall pull the container side flap with grommets over canopy while holding side flap with locking cone in place. Keep canopy and pilot parachute movement to a minimum (Figure 69).



6.2-5206B

**Figure 69. Pull Up Container Side Flaps**

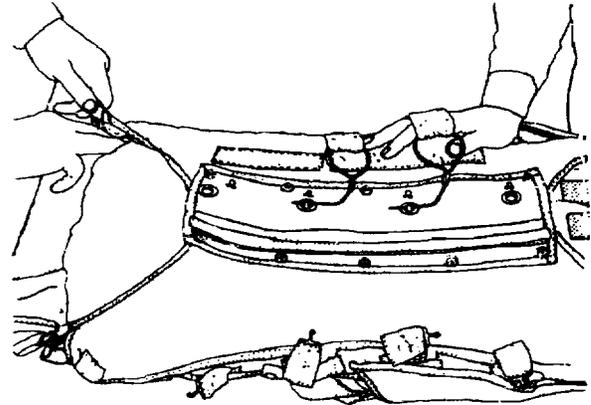
c. Place grommets over locking cones and insert temporary locking pins toward top end flap (Figure 70).



6.2-5206C

**Figure 70. Place grommets over Locking Cones**

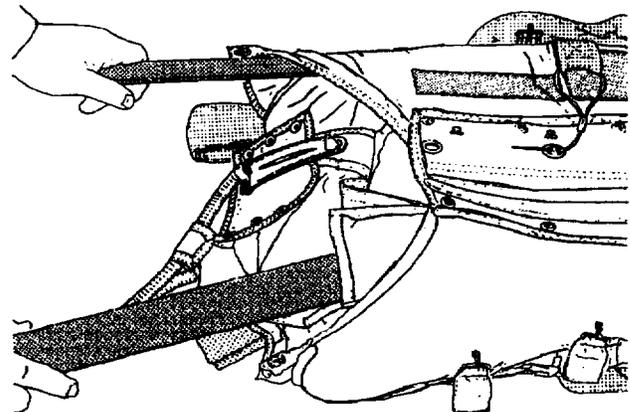
d. Remove temporary locking pin plate from pilot parachute locking cone and straighten canopy folds at both ends of container (Figure 71).



6.2-5206D

**Figure 71. Remove Temporary Locking Pin**

e. Packer shall tuck top container end flap under the side flaps using two long bars inserted in pockets (Figure 72).



6.2-5206E

**Figure 72. Tuck Under Top Container End Flap**

f. Place side flap grommets over top end flap locking cone. Insert temporary locking pin toward top end flap (Figure 73).

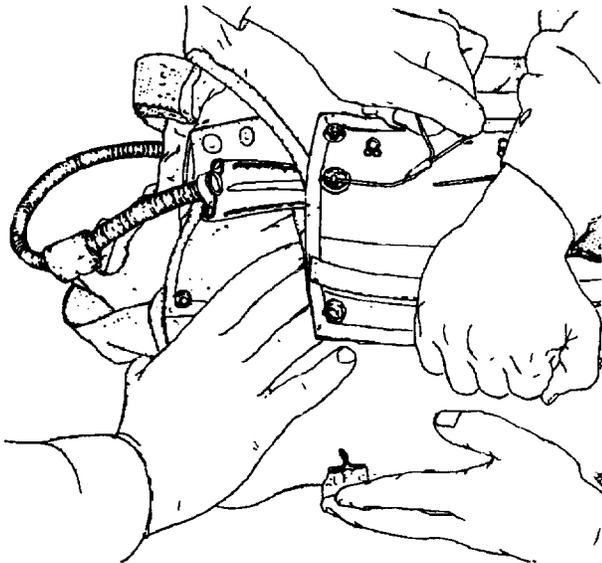


Figure 73. Place Side Flap Grommets Over End Flap 6.2-6023A

g. Place side flap grommets over bottom end flap locking cone. Insert temporary locking pin toward top end flap (Figure 74).

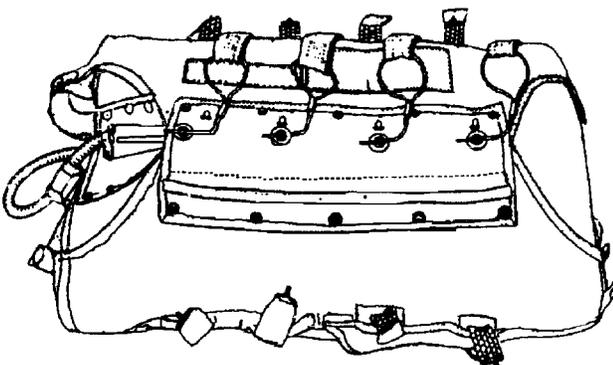


Figure 74. Place Flap Grommets Over Bottom End Flap 6.2-6023B

h. Push cover flaps into container using packing fid inserted into pockets. Remove wrinkles and smooth corners of container using packing fid (Figure 75).

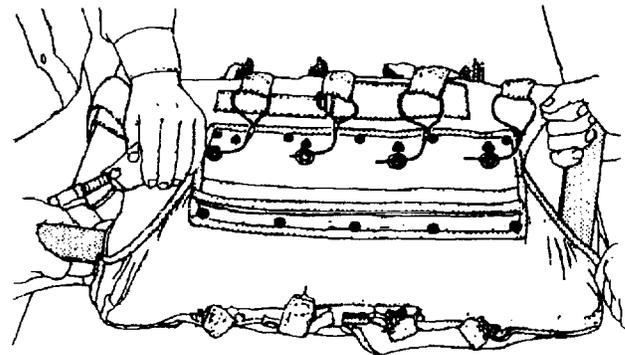


Figure 75. Push Cover Flaps Into Container 6.2-6023C

i. Insert ripcord cable into ripcord housing (Figure 76).

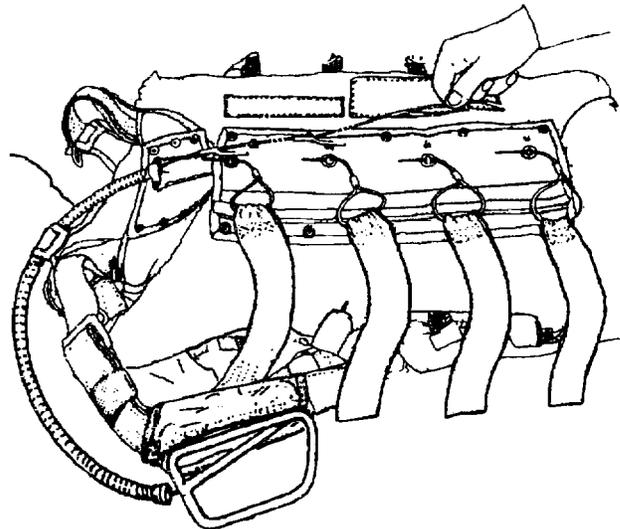
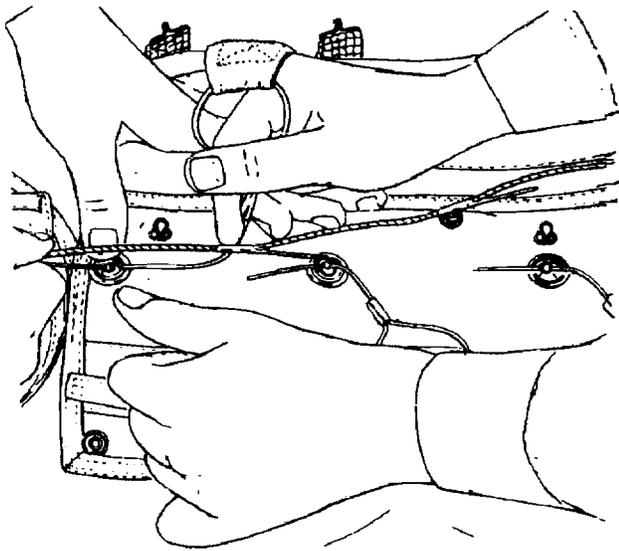


Figure 76. Insert Ripcord Cable 6.2-6023D

**WARNING**

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

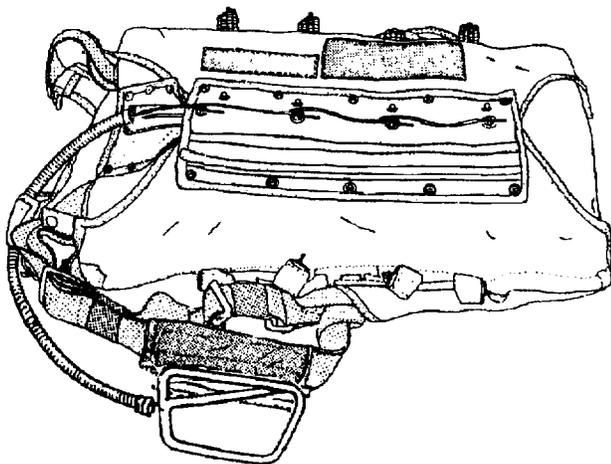
j. Helper shall hold side flap grommets over locking cone nearest packer. Helper then removes temporary locking pin, as packer, at same time, inserts top ripcord pin (Figure 77).



6.2-6023E

**Figure 77. Helper Will Hold Side Flap Grommets Over Cones**

k. Working from packer's end to helper's end, remove temporary locking pins and at same time insert ripcord pins (Figure 78).



6.2-6024A

**Figure 78. Remove Temporary Locking Pins**

**WARNING**

Ripcord pins must be centered in locking cones.

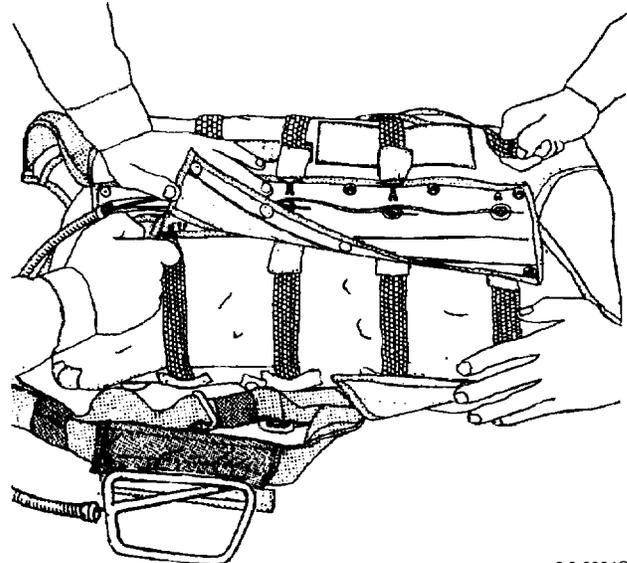
l. Insure ripcord pins are centered in locking cones so that shoulder of ripcord pin is not jammed against hole in locking cone, but extends more than 1/2-in. beyond base of cone (Figure 79).



6.2-6024B

**Figure 79. Center Ripcord Pins**

m. Attach container spring opening assemblies to container eyes (Figure 80).

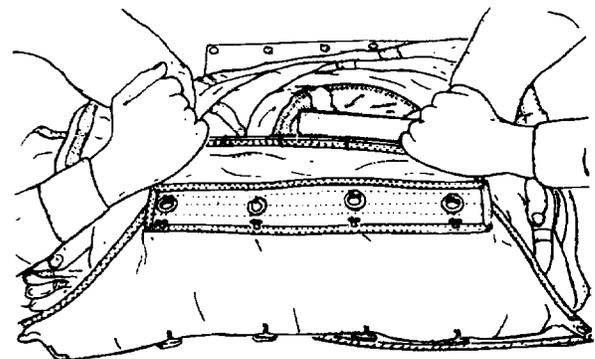


6.2-6024C

**Figure 80. Attach Container Spring Opening Assemblies**

**24. CLOSING CONTAINER WITH RIPCORD RELEASE INSTALLED.**

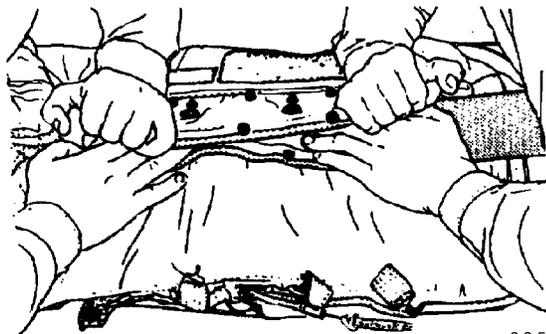
a. Packer and helper shall hold canopy and compress pilot parachute in place and pull the container side flap with locking cone over canopy. Place second grommet from container bottom over locking cone in pilot parachute (Figure 81).



6.2-5379A

**Figure 81. Compress Pilot Parachute**

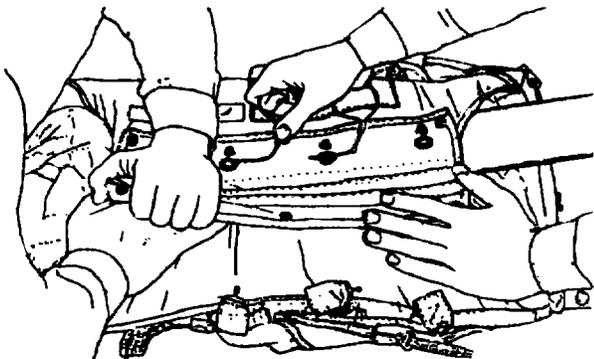
b. Packer and helper shall pull the container side flap with grommets over canopy while holding side flap with locking cone in place. Keep canopy and pilot parachute movement to a minimum (Figure 82).



6.2-5379B

**Figure 82. Pull Side Flaps With Grommets Over Canopy**

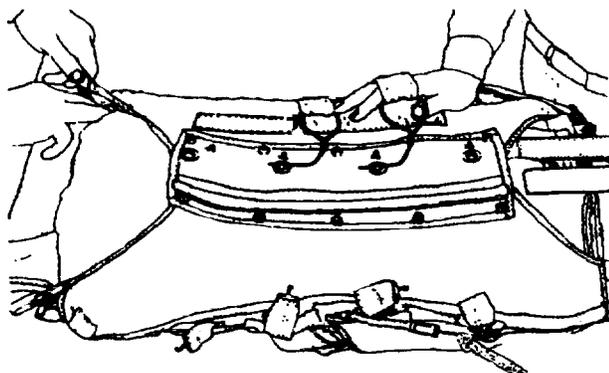
c. Place grommets over locking cones and insert temporary locking pins toward top end flap (Figure 83).



6.2-5379C

**Figure 83. Place Grommet Over Locking Cones**

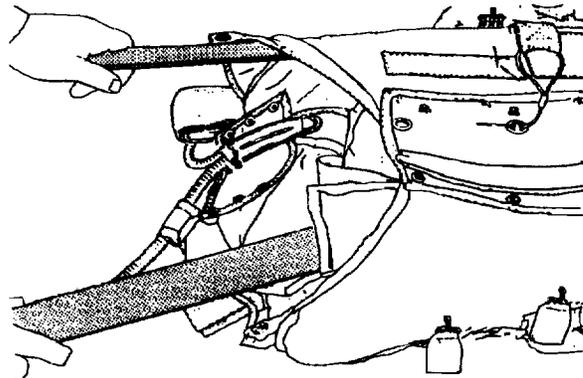
d. Remove temporary locking pin plate from pilot parachute locking cone and straighten canopy folds at both ends of container (Figure 84).



6.2-5379D

**Figure 84. Remove Temporary Locking Pin Plate**

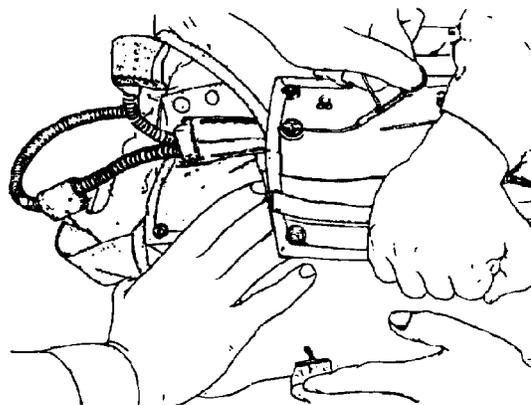
e. Packer shall tuck top container end flap under the side flaps using two long bars inserted in pockets (Figure 85).



6.2-5379E

**Figure 85. Tuck Container End Flap Under**

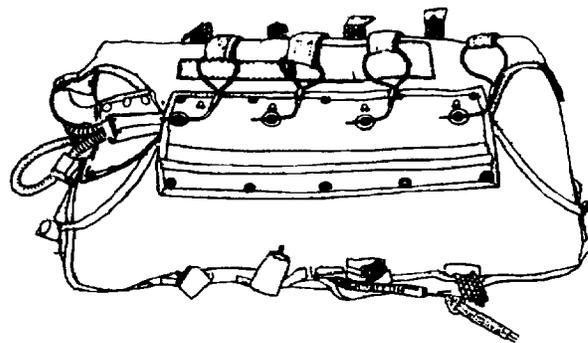
f. Place side flap grommets over top end flap locking cone. Insert temporary locking pin toward top end flap (Figure 86).



6.2-5379F

**Figure 86. Place Side Flap Grommets Over Top End Flap**

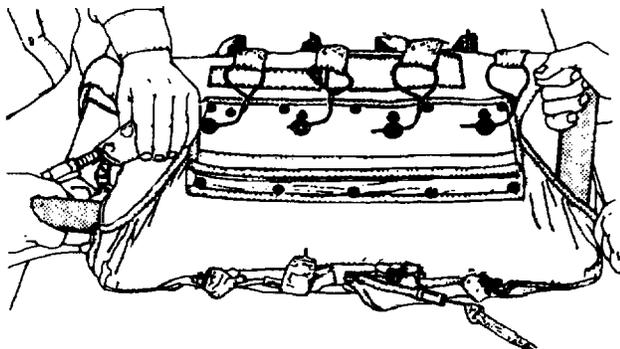
g. Place side flap grommets over bottom end flap locking cone. Insert temporary locking pin towards top end flap (Figure 87).



6.2-6025A

**Figure 87. Place Side Flap Grommets Over Bottom End Flap**

h. Push corner flaps into container using packing fid inserted into pockets remove wrinkles and smooth corners of container using packing fid (Figure 88).



6.2-6025B

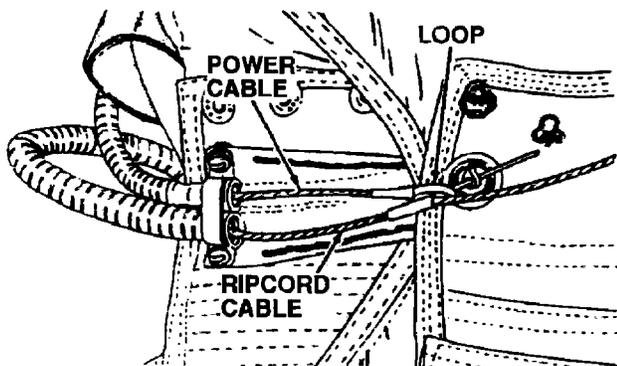
Figure 88. Push Corner Flaps Into Container

i. Insert ripcord cable into ripcord housing.



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

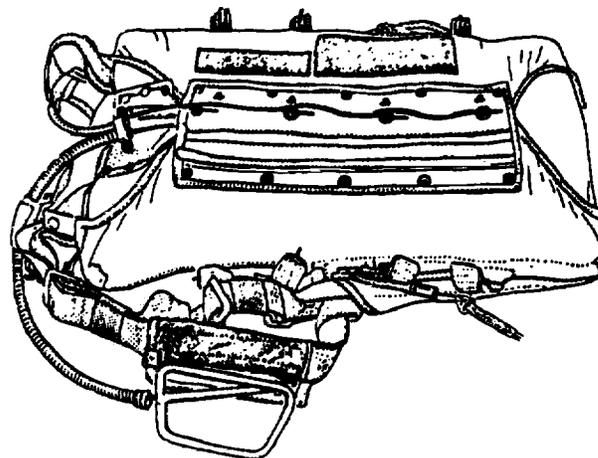
j. Pass top ripcord pin thru beveled side of eye in end of automatic release power cable. Packer and helper shall hold side flap grommets over locking cone nearest base plate as helper removes temporary locking pin. Packer, at same time, shall insert top ripcord pin (Figure 89). (QA)



6.2-3235

Figure 89. Pass Top Ripcord Pin Thru Beveled Side of Eye

k. Working from packer's end to helper's end remove temporary locking pins and at same time insert ripcord pins (Figure 90).



6.2-6025C

Figure 90. Remove Temporary Locking Pins



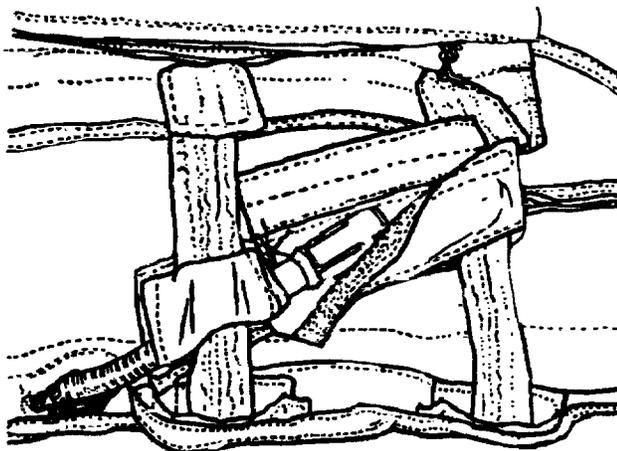
Ripcord pins must be centered in locking cones.

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 locking cone (Figure 79).

m. Attach container spring opening assemblies to right side of container eyes.

**25. RIPCORD RELEASE LANYARD STOWAGE (IF INSTALLED).**

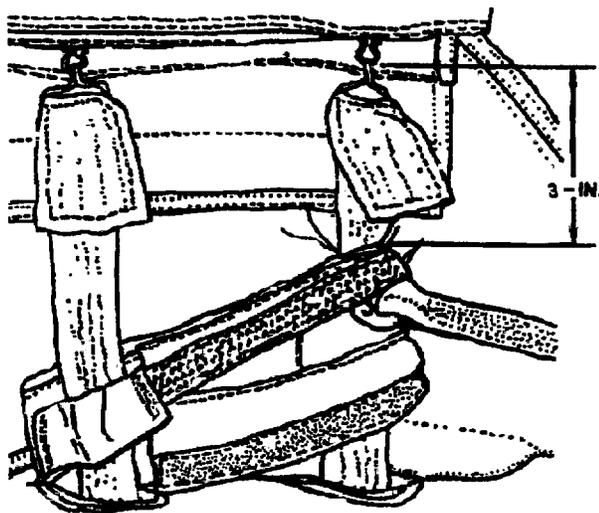
a. Attach spring opening assemblies on left side of container. Route second spring opening assembly from bottom thru uppermost channel on stowage pocket. Route bottom spring opening assembly thru lower channel on stowage pocket (Figure 91).



6.2-7137

Figure 91. Attach Spring Opening Assemblies

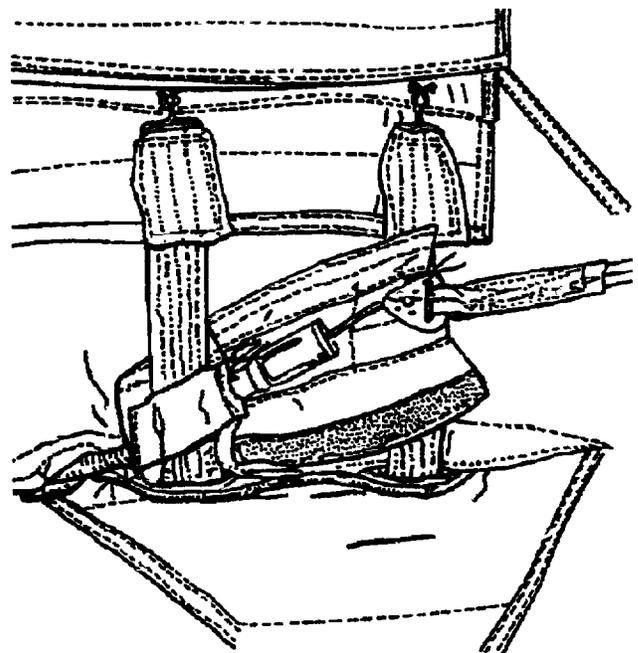
b. Tack base of stowage pocket to bottom spring opening assembly about 3-in. from hook with three turns of size 6 thread, doubled and waxed; tie off (Figure 92).



6.2-7138

Figure 92. Tack Base of Stowage Pocket

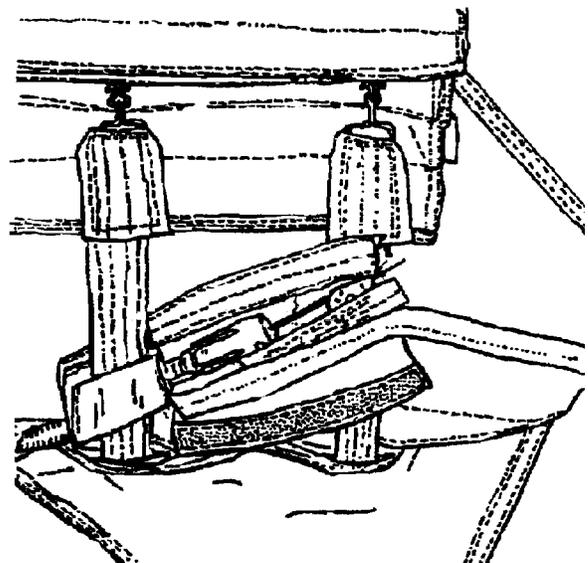
c. Tack lanyard assembly plate to upper flap of stowage pocket with one turn of size E thread, single and waxed; tie off (Figure 93).



6.2-7139

Figure 93. Tack Lanyard Assembly

d. Fake lanyard assembly in stowage pocket and close by securing pile tape on bottom flap with hook pile on top flap (Figure 94).

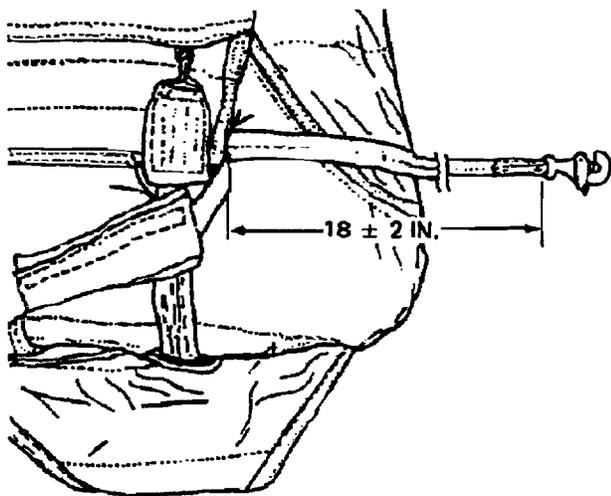


6.2-7140

Figure 94. Fake Lanyard Assembly

e. Stow ripcord release lanyard assembly in container by first laying it out on packing table and removing all twists. Form a bight in lanyard 36-in. from eye of snaphook.

f. Using a draw cord stow first bight into flute closest to stowage pocket. Draw bight from bottom to top of container, and adjust so  $18 \pm 2$ -in. of lanyard remain between bottom of flute and eye of snap-hook (Figure 95).



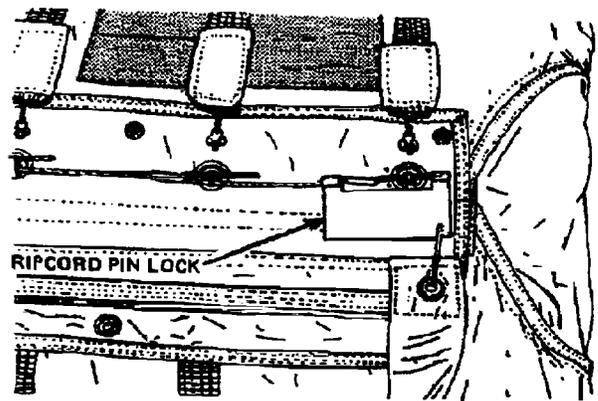
6.2-7141

Figure 95. Using a Draw Cord Form First Bight

g. Tack lanyard to bottom of flute with one turn of size E thread, single and waxed; tie off.

**26. RIPCORD PIN PULL CHECK.**

a. Insert ripcord pin lock on bottom ripcord pin (Figure 96).



6.2-7142

Figure 96. Insert Ripcord Pin Lock

b. Attach spring scale to ripcord handle with a nylon cord.

c. Using the scale apply a straight steady force to the ripcord handle until initial movement of the ripcord pin is observed. Most allowable force is 27 lbs. (QA)

d. Record force required to move pins on Parachute Record.

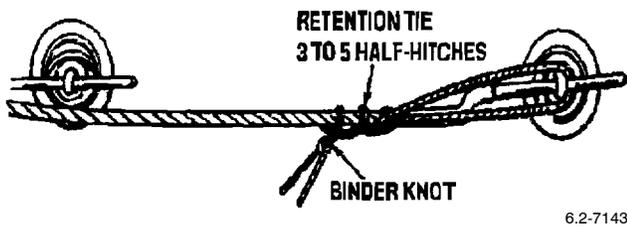


Ripcord pinlock must be removed.

e. Remove ripcord pin lock. (QA)

f. If necessary reposition ripcord pins so they are centered in locking cones with end of each pin extended more than 1/2-in. beyond cone.

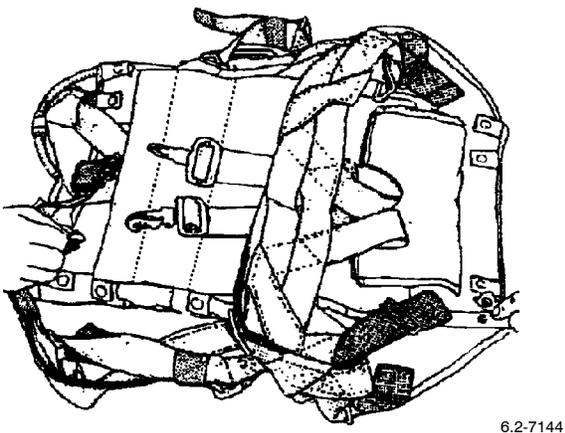
g. Loop a 12-in. length of size A thread, single and waxed under bottom ripcord pin. Secure pin by bringing thread ends together and tying three to five half-hitches around ripcord cable above ripcord pin ferrule. Top off with a binder knot. Trim excess within 1/2 to 3/4-in. (Figure 97). (QA)



**Figure 97. Loop a Length of Size A Thread Under Ripcord Pin**

h. Snap ripcord pin protector flap and base plate protector flap closed.

i. Turn container over so back pad faces up. Fasten the two corner straps at each corner to container (Figure 98).



**Figure 98. Turn Container Over**

j. Insert ripcord handle into pocket.

**27. STANDARD SOFT PACK (SSP) INSTALLATION (IF INSTALLED).**

a. Insert combination carrying case and equipment container SSP outer container or SP-1A seat pan, as applicable. Ensure strap handle is positioned at open end of container.

**28. FINAL CHECKOUT.**

a. Account for all packing tools.

b. Examine packed parachute for general condition. (QA)

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.

**INTERMEDIATE AND DEPOT MAINTENANCE**

**REPAIR PROCEDURES**

**NB-6 PERSONNEL PARACHUTE ASSEMBLY**

**PART NO. 565AS100-1, 565AS100-2, 565AS100-13, and 565AS100-14**

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Common Repairs	WP 004 00
Organizational Repair Procedures, NB-6 Personnel Parachute Assembly	WP 011 01
Parachute Loft Requirements/Administration	WP 003 00
Support Equipment	WP 005 00

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**Record of Applicable Technical Directives**

None

**1. INTRODUCTION.**

a. This work package (WP) contains instructions for the 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.
- (3) If any holes 1-in. or less, replace pilot parachute.

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

- (1) Service/total life has expired per WP 011 02.
- (2) Seam separations and loose or broken stitching (yarn separation is acceptable) that may affect safe operation of the parachute assembly.
- (3) If any holes 1-in. or less, replace 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.**

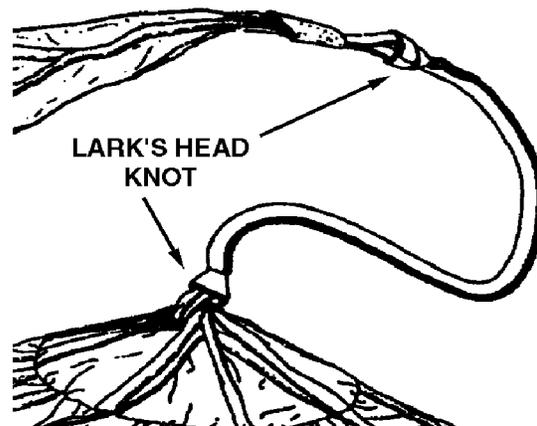
Materials Required

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 per WP 011 02.
- 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 large loop of connector strap and pull tight (Figure 1).



**Figure 1. Pilot Parachute and Connector Strap Replacement**

- d. Tack lark's head knot with two turns of size 6 thread, single and waxed; tie off (Figure 1). (QA)
- e. Mark date placed in service on pilot parachute per WP 004 00. (QA)

**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. Remove tacking at lark's head knot and then remove pilot parachute connector strap.

b. Inspect replacement connector strap for cuts, fraying, and loose or broken stitching.

c. Measure length of pilot parachute connector strap. Proper unattached length is 23 1/2 ± 1/2-in.

d. Grasp a suspension line at canopy vent, count, and hold 14 consecutive lines.

e. Pass small loop end of connector strap thru and around all apex lines. Pass large loop end of connector strap thru small loop end; pull tight, forming a Lark's head knot (Figure 1).

f. 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 (Figure 1).

g. Tack Lark's head knot at pilot parachute with two turns of size 6 thread, single and waxed; tie off (Figure 1).

h. Mark date placed in service on connector strap per WP 004 00. (QA)

**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 and 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).**

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 and 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. (QA)

**7. CANOPY ASSEMBLY REPAIRS.**

a. For canopy service life, refer to WP 011 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 31 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 riser flutes.
- c. Remove connector link yoke and plate assemblies.
- d. Remove connector links from riser loops and then reinstall yoke and plate assemblies.
- e. Dispose of canopy assembly per current supply directives.
- f. Lay out replacement canopy assembly and stretch it to its full length on packing table.
- g. Attach tension strap hook to canopy vent lines.
- h. Locate gore 22 (nameplate gore) and place it uppermost in center of packing table.
- i. At skirt hem, separate suspension lines into two equal groups with lines 1 thru 11 on packer’s side and 12 thru 22 on helper’s side (Figure 2). Grasping each group of lines, walk from skirt hem to connector links removing any dips and twists between the two groups.



6.2-5447

**Figure 2. Placement of Connector Links**

- j. Place connector link holding lines 1 thru 5 on top of connector link holding lines 6 thru 11. Place connector link

holding lines 22 thru 18 on top of connector link holding lines 12 thru 17. Insert tension hooks into connector links and insert hooks into packing table (Figure 2).

- k. Pull suspension lines taut.

l. Check suspension line continuity on right side of gore 22. Packer shall grasp line 22 at skirt hem and raise to a sufficient height to ensure line is free of dips and twists. Continue this procedure with lines 21 thru 12 (Figure 2). Helper shall be positioned at connector links to check lines selected by the packer.

m. Check suspension line continuity on left side of gore 22. 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 11 (Figure 2). Helper shall be positioned at connector links to check lines selected by the packer.

- n. Continue to inspect canopy assembly per WP 011 02.

o. Reattach pilot parachute and connector strap per Paragraphs 3 and 4.

p. Place harness and container on packing table with risers facing each other and positioned at connector links. Container will face up and harness will face down on table.

q. Remove connector links from tension hooks. Remove tension hooks from packing table.

r. Remove connector link yoke and plate assemblies from each connector link. Insert bottom connector links into bottom riser loops and top connector links into top riser loops.

**NOTE**

Ensure that knurled portions of connector link yoke and plate assemblies face up and screwheads face outboard.

s. Reattach yoke and plate assemblies to connector links and tighten screws to a torque value of 20 to 25 in-lbs. Apply torque seal to each connector link screwhead. (QA)

t. Replace tension hooks on packing table, insert tension hooks into connector links and then tension canopy.

u. Mark date placed in service on canopy assembly per WP 011 02. (QA)

v. Make proper entries on Parachute Record (OPNAV 4790/101).

**9. HARNESS ASSEMBLY REPAIRS.**

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

- (1) Cleaning of contaminated areas.
- (2) Repair of stitching if less than three stitches are loose or broken.
- (3) Replacement of harness hardware, if replacement does not require the removal of harness stitching.
- (4) Replacement of elastic strap keepers.

b. Replace the harness assembly for any of the following:

- (1) Service/total life has expired per WP 011 02.
- (2) Cuts, tears, or holes in harness webbing.
- (3) Loose or broken stitching in excess of three stitches.
- (4) Twists, fading, excessive wear, fusing, fraying, burns, contamination, or abrasion.
- (5) If damaged hardware must be replaced by removal of harness stitching, replace harness.

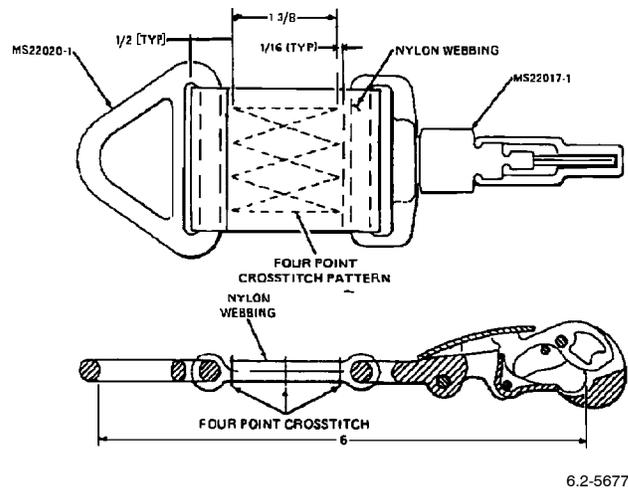
**10. FABRICATION OF CHEST STRAP EXTENDER.**

Materials Required

Specification or Part Number	Nomenclature
PIA-W-4088	Webbing, Nylon, Type XXVII, Class 1, 1A, or 2
MS22017	Snap, Parachute, Ejector
MS22020-1	Link, Parachute, Triangle
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

- a. Inspect ejector snap and triangle link per WP 011 02.
- b. Cut a 7 1/2-in. length of nylon webbing; sear ends.

c. Reeve nylon webbing around bar of snap and bar of link as shown in (Figure 3).



**Figure 3. Fabrication of Chest Strap Extender**

d. Using size 6 thread, stitch strap with a four-point cross-titch pattern (Figure 3).

**11. REPLACEMENT OF LABEL.**

Materials Required

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

- a. Remove back pad.
- b. Carefully remove old label.
- c. Cut tackings on harness keeper straps and unreeve straps.
- d. Rotate harness off container.
- e. Mark required information on replacement label.
- f. Machine stitch replacement label to harness in center of horizontal backstrap with label positioned to face wearer.
- g. Reattach harness to container per Paragraph 13.

**12. ATTACHMENT OF RIPCORD HOUSING TO CONTAINER WITHOUT RIPCORD RELEASE INSTALLED.**

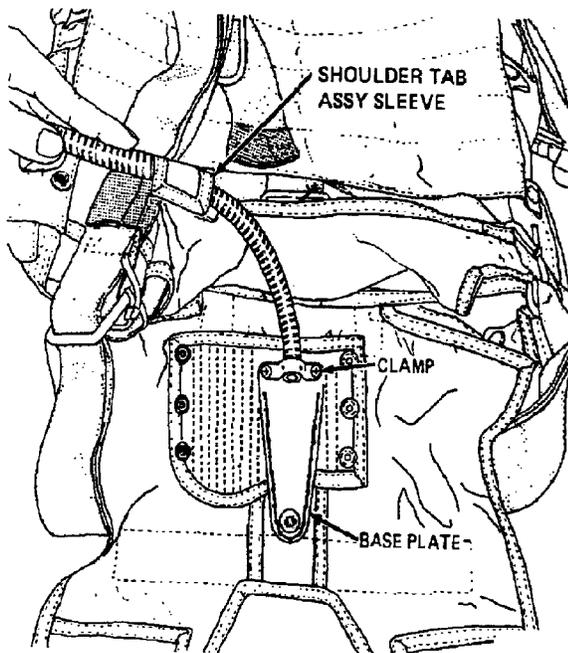
Materials Required

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

**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. Reeve ripcord housing thru shoulder tab on container (Figure 4).



6.2-5610

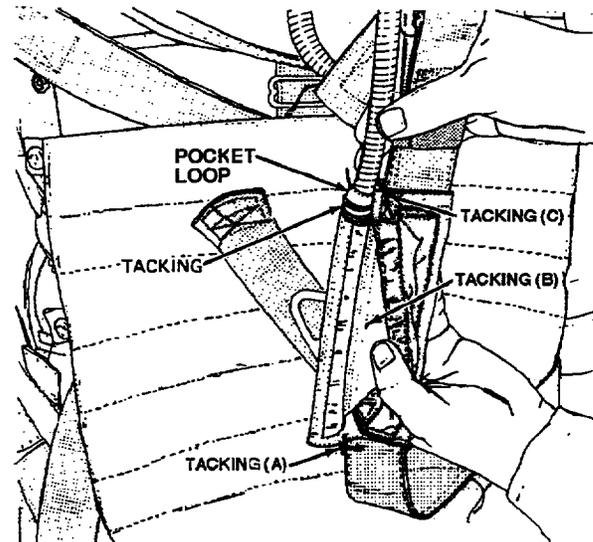
**Figure 4. Attachment of Ripcord Housing to Container Without Ripcord Release Installed**

- b. Clamp end of housing to base plate, using single housing clamp (60A113C29-1). Tighten clamp screws and apply torque seal to screw heads.

- c. Route opposite end of ripcord housing along the inside of the harness assembly, to ripcord pocket loop. Ensure that housing does not pass thru or around harness assembly (Figure 5).

- d. Tack ripcord housing per WP 004 00.

**13. REPLACEMENT OF HARNESS ASSEMBLY.**



6.2-5364

**Figure 5. Replacement of Ripcord Pocket Tackings**

Materials Required

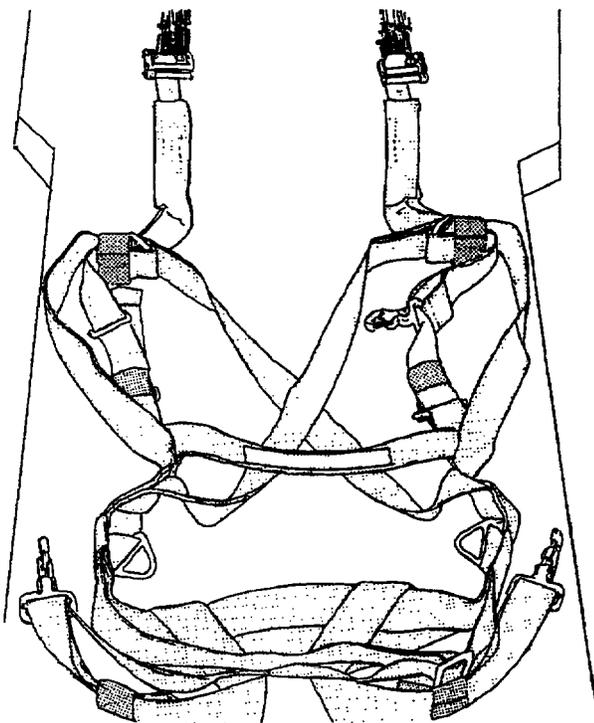
Specification or Part Number	Nomenclature
PIA-C-5040	Cord, Nylon, Type III
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A
F-900 Torque Seal (Color Optional)	Sealing Compound

**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 attached, remove survival kit and tackings.
- b. Remove backpad.
- c. Remove ties securing shoulder tabs to harness web loops.
- d. Remove tackings on harness keeper straps.
- e. Remove all harness keeper straps from adapters and then remove harness from container.
- f. Remove connector link yoke and plate assemblies.

- g. Slide harness riser loop off connector link bar.
- h. Reinstall yoke and plate assemblies.
- i. Ensuring the suspension line continuity is maintained (Figure 2), insert connector links onto tension hooks.
- j. Remove ripcord from ripcord pocket and housing.
- k. Remove tackings securing ripcord pocket to harness and remove pocket.
- l. Inspect replacement harness per WP 011 02.
- m. Place harness assembly on packing table with exposed ends or corresponding risers facing each other and positioned at connector links. An aircrew wearing the harness would position head toward canopy and facing packing table (Figure 6).



6.2-5876

**Figure 6. Position of Harness on Packing Table for Attachment of Connector Links**

- n. Remove connector link yoke and plate assemblies from each connector links.
- o. Insert bottom connector links into bottom riser loops and top connector links into top riser loops.
- p. Reinstall yoke and plate assemblies to bottom connector links, ensuring that knurled portions of plate face up and screwheads face outboard.
- q. Remove connector link yoke and plate assemblies from top connector links.
- r. Insert top connector links into top riser loops.
- s. Reinstall yoke and plate assemblies to top connector links ensuring that knurled portions of plate face up and screwheads face outboard.
- t. Check suspension line continuity (Figure 2).
- u. Tighten screws on top and bottom connector links to a torque value of 20 to 25 in-lbs. (QA)
- v. Apply torque seal to each connector link screwhead.

**14. ATTACHMENT OF HARNESS AND BACKPAD.**

Materials Required

Specification or Part Number	Nomenclature
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. Position container on top of harness risers with inside of container facing risers and top edge of container positioned at harness shoulder adapters (Figure 7).

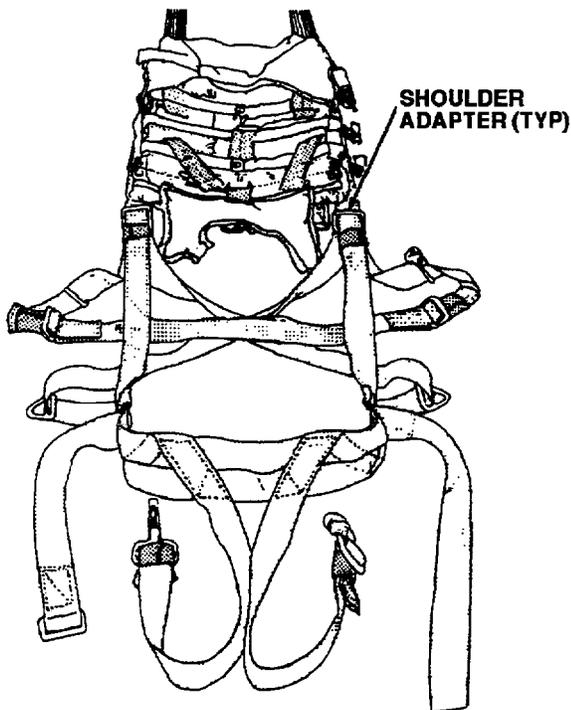


Figure 7. Position Container on Top of Harness

6.2-5176

b. Rotate harness assembly at shoulder adapters and place on top of container (Figure 8).

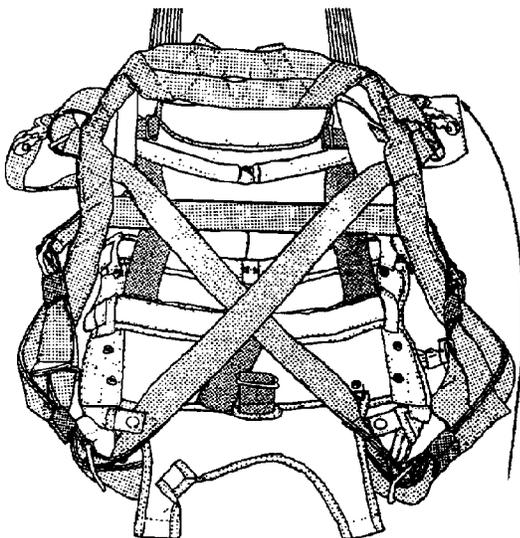


Figure 8. Rotate Harness

6.2-5176A

c. Position diagonal back straps under upper center harness keeper straps on container and reeve straps together (Figure 9).

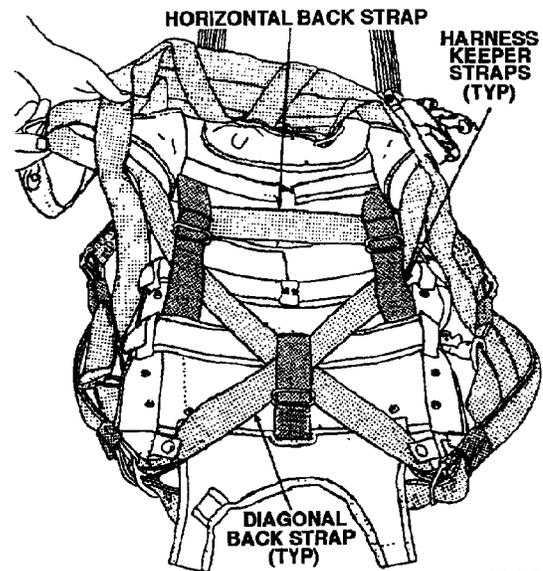


Figure 9. Position Diagonal Back Straps

6.2-5176C

d. Position both diagonal back straps and horizontal back strap under the two keeper straps located on each side of the container and reeve upper and lower keeper straps together (Figure 10).

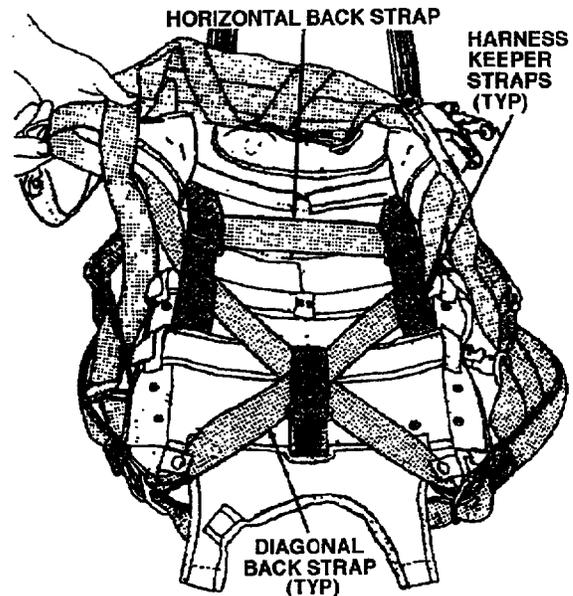
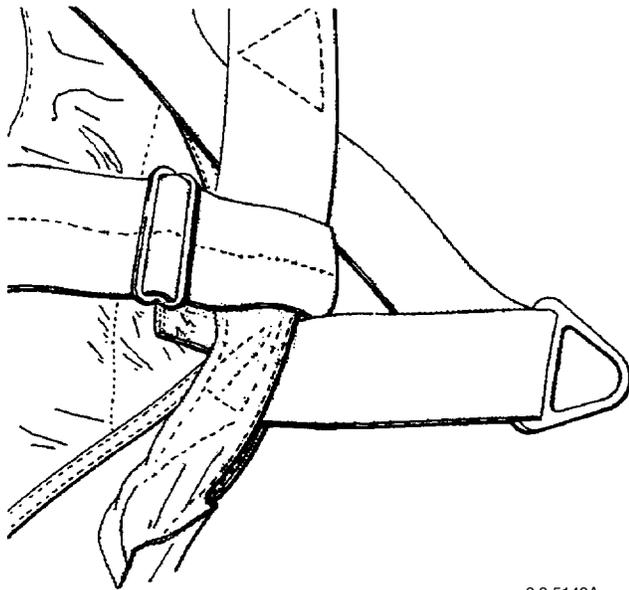


Figure 10. Positioning of Both Diagonal Back Straps

6.2-5716D

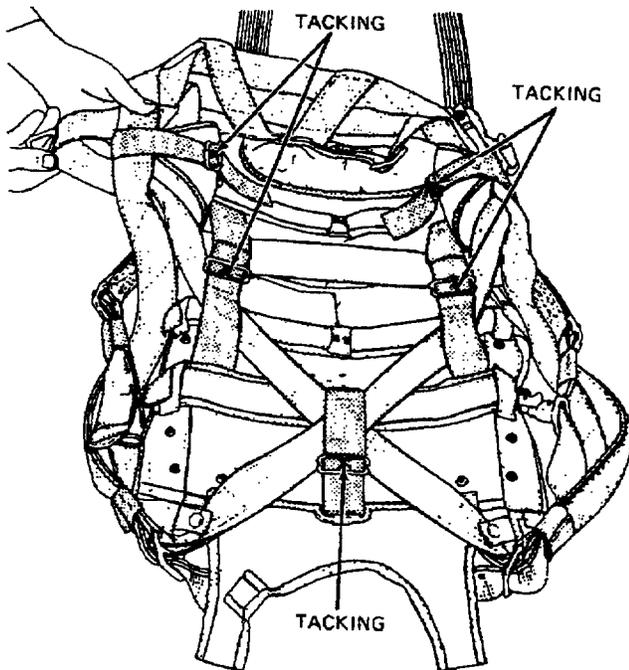
e. Pass keeper strap located on each wing panel thru opening formed by each upper leg strap extension and around harness webbing; then reeve keeper straps together (Figure 11).



6.2-5149A

Figure 11. Pass Keeper Strap

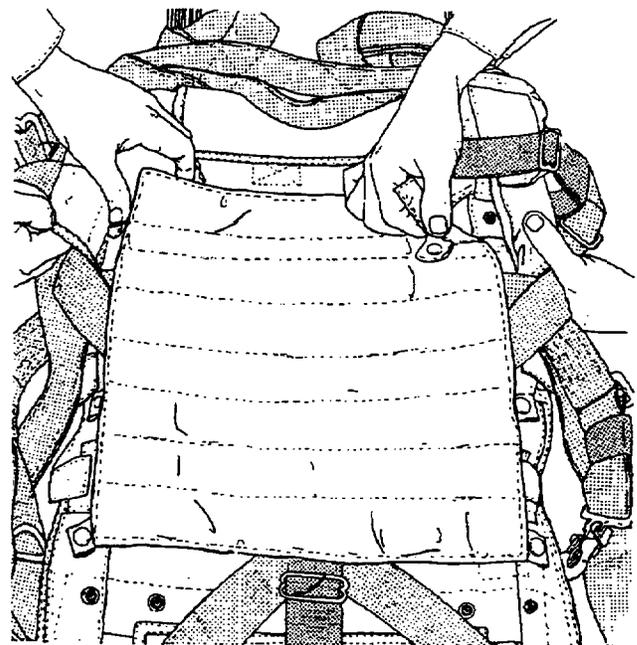
f. Tack each strap at adapter with one turn of size 6 thread, single and waxed. Pass tacking thru straps and around center bar of adapter; tie off (Figure 12).



6.2-5419B

Figure 12. Tack Each Strap

g. Attach back pad to container, securing six back pad side tabs (Figure 13).

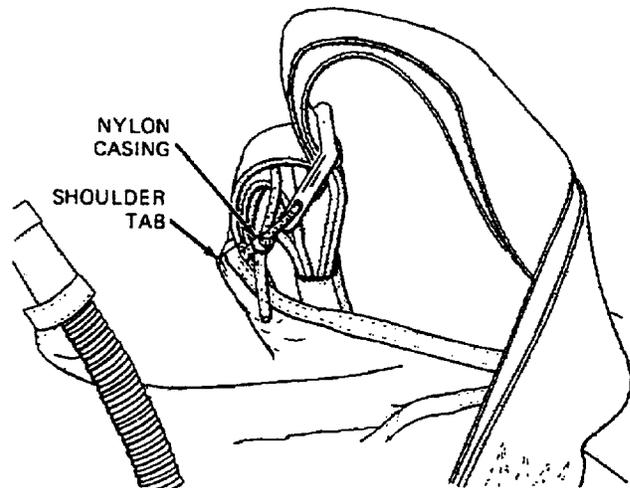


6.2-5419C

Figure 13. Attach Back Pad

h. Cut two 10-in. lengths of Type III nylon cord (OD color). Remove and discard inner core and sear ends of casing.

i. Tie shoulder tabs to web loops securing center bar of each shoulder adapter using the 10-in. nylon casing. Tie ends with a square knot (Figure 14).



6.2-5419D

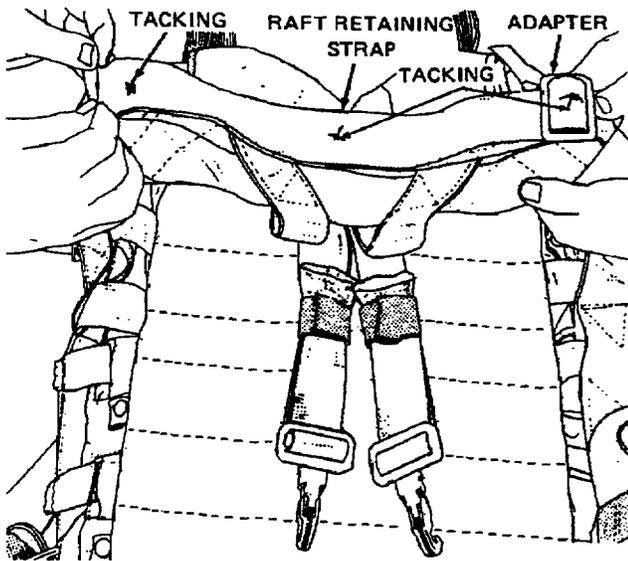
Figure 14. Tie Shoulder Tabs

j. Continue with next paragraph for stowage of raft retention strap when no survival kit is attached.

**NOTE**

If seat cushion or seat pan and SSP are to be attached, do not perform steps k thru n.

k. Reeve raft retaining strap completely thru strap adapter, positioning adapter against main sling of harness. Fold strap end 2-in. under and tack to strap beneath with one turn of size 6 thread, single and waxed; tie off (Figure 15).



6.2-5419E

**Figure 15. Reeve Raft Retaining Strap**

l. Tack raft retaining strap at adapter by passing one turn of size 6 thread, single and waxed, around each side of adapter center bar and thru retaining straps; tie off (Figure 15).

m. Tack both raft retaining straps together at center, thru main sling, with one turn of size 6 thread, single and waxed; tie off (Figure 15).

n. Attach ripcord pocket to harness per WP 004 00.

o. Attach ripcord housing per WP 004 00.

p. If installed, attach survival kit by reeving leg straps thru keepers on SSP and then up thru slot in seat cushion or seat pan, as applicable.

q. Mark date placed in service on identification and service life label per WP 004 00.

**15. AUTOMATIC ACTUATOR REPAIRS.**

**16. REPAIR OF ARMING CABLE END FITTING.**

**Support Equipment**

Part Number	Nomenclature
DPP-50	Scale, Spring
—	Pliers, Common

**Materials Required**

Specification or Part Number	Nomenclature
PIA-C-5040	Cord, Nylon, Type I or IA

a. Adjust retaining clips by placing pliers around retaining clips and applying uniform pressure. Ensure that retaining clips are not distorted.

b. Retest arming cable removal per WP 011 02.

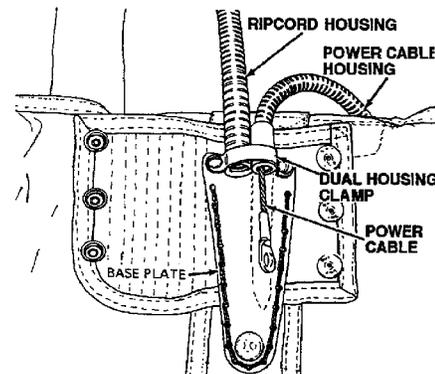
c. Using a straight steady pull, observe amount of pull required to remove end fitting from arming cable housing. Allowable force is 17 lbs. ± 3 lbs.

**17. REPLACEMENT OF AUTOMATIC PARACHUTE RIPCORD RELEASE.**



The ripcord release shall be thoroughly inspected and in operational condition before being installed.

a. Remove dual housing clamp securing ripcord housing and power cable housing (Figure 16).



6.2-3234

**Figure 16. Attachment of Ripcord Release Power Cable and Manual Ripcord Housing to Base Plate**

- b. Remove ripcord release from container.
- c. Inspect replacement ripcord release per WP 011 02.
- d. Position power cable housing so it exits container thru right riser slot on top end flap.
- e. Clamp one end manual ripcord housing and free end of power cable housing to base plate using double clamp (P/N 565AS102-1). Power cable housing shall be on right side of base plate. One flat side of power cable housing shall face ripcord housing and the other flat side shall face base plate (Figure 16).

**18. REPLACEMENT OF RIPCORD RELEASE ARMING CABLE HOUSING 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. Completely remove tackings securing housing to container.



Ensure that canopy does not become pierced when tacking housing to container.

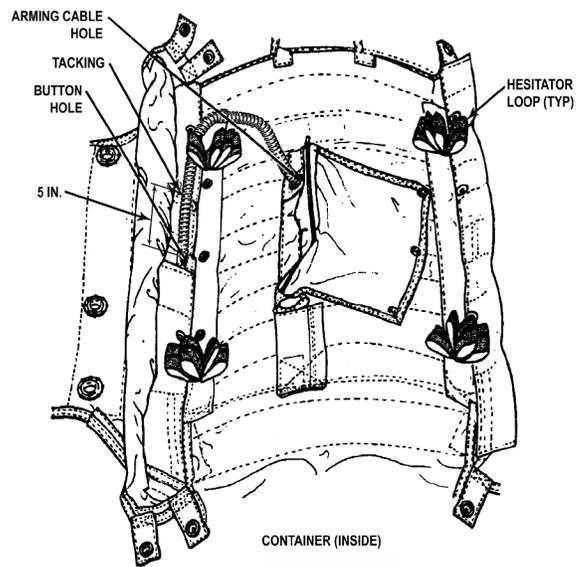
- b. Tack arming cable housing to second metal stiffener from top of container at two places located 2 and 5-in. measured from inboard edge of buttonhole on automatic ripcord release pocket (Figure 17).

- c. Tack arming cable housing to inside of container at a point 2-in. from buttonhole with three turns of size 6 thread, doubled and waxed; tie off (Figure 17).

**19. FABRICATION OF LANYARD ASSEMBLY P/N 812AS100-1D.**

**Support Equipment Required**

Part Number	Nomenclature
DPP-50	Scale, Spring



**Figure 17. Tacking of Arming Cable Housing to Inside of Container**

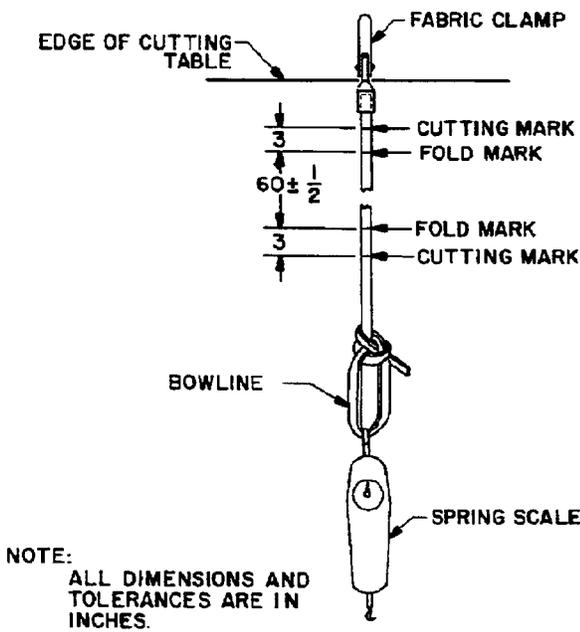
**Materials Required**

Specification or Part Number	Nomenclature
711-07026	Cable, Arming
MIL-C-7219	Cloth, Nylon, Type III, Class 3
MS27756	Hook, Snap
782AS100-4	Plate (2)
MS20470DD2-3	Rivet, Solid (4)
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
MIL-W-5625	Webbing, Textile, Nylon Tubular, 1/2-in. Width (1000 lb Breaking Strength)

- a. Clamp one end of webbing to a suitable table and extend about 8 ft. Tie a bowline knot to which a spring scale is attached. Apply 5 lb. of tension for 15 to 20 sec; mark at four places as indicated in (Figure 18).



Do not allow hot drippings or ends of nylon webbing to come in contact with skin or clothing.



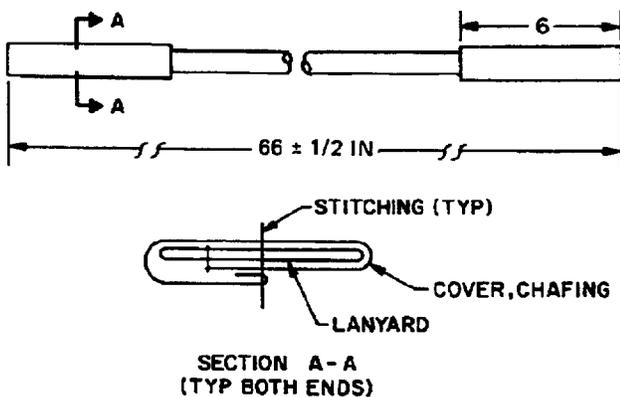
6.2-5678

**Figure 18. Measuring and Cutting Lanyard Webbing**

b. Cut and sear tubular nylon webbing using a hot wire or a hot knife. Avoid forming sharp edges.

c. Cut two lengths of nylon cloth, 1 1/2 by 6-in. to be used as chafing cover for lanyard.

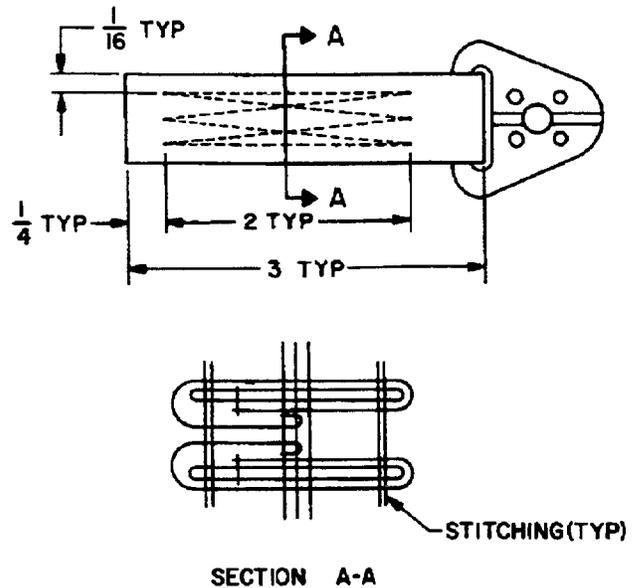
d. Using size E thread machine stitch a 1-1/2 by 6-in., length of nylon cloth (chafing cover) to tubular nylon webbing (lanyard) at both ends (Figure 19).



6.2-6030A

**Figure 19. Machine Stitch**

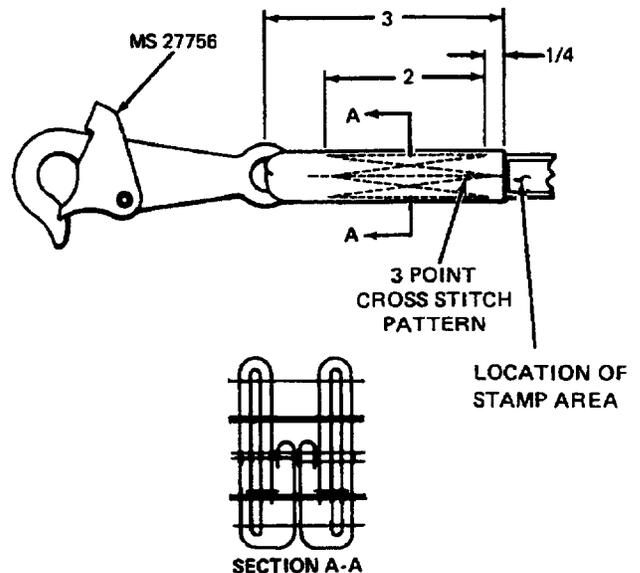
e. Thread chafing cover and lanyard thru end fitting (P/N 782AS100-1), temporarily tack in place with size A thread, and then machine stitch using a 3 point cross stitch pattern (Figure 20).



6.2-6030B

**Figure 20. Thread Chafing Cover and Lanyard**

f. Thread opposite end of lanyard thru eye in snap hook. Temporarily tack in place with size A thread, and then machine stitch using a 3 point cross stitch pattern (Figure 21).



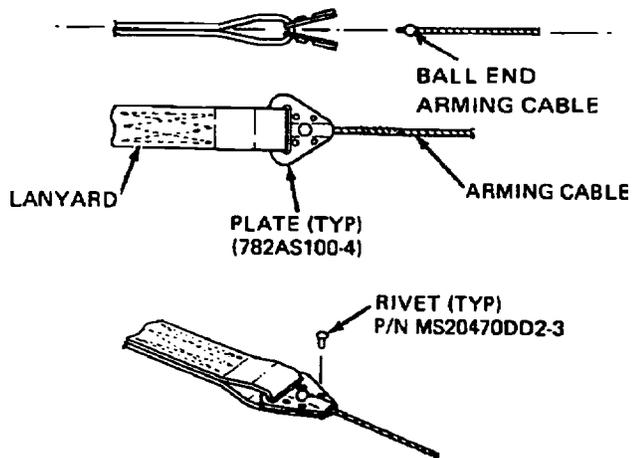
6.2-6030C

**Figure 21. Thread Opposite End of Lanyard**

g. Rubber stamp in 1/4-in. characters along long axis of lanyard, with marking ink, the following information:

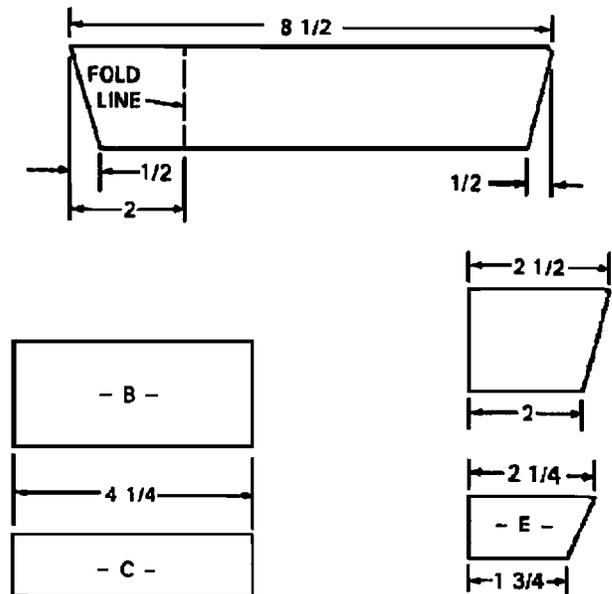
Part Number 812AS100-1D  
 Date of Manufacture \_\_\_\_\_  
 Date Placed in Service \_\_\_\_\_

h. Install arming cable ball into plates; rivet together in 4 places (Figure 22).



6.2-6030D

Figure 22. Install Arming Cable



6.2-7144A

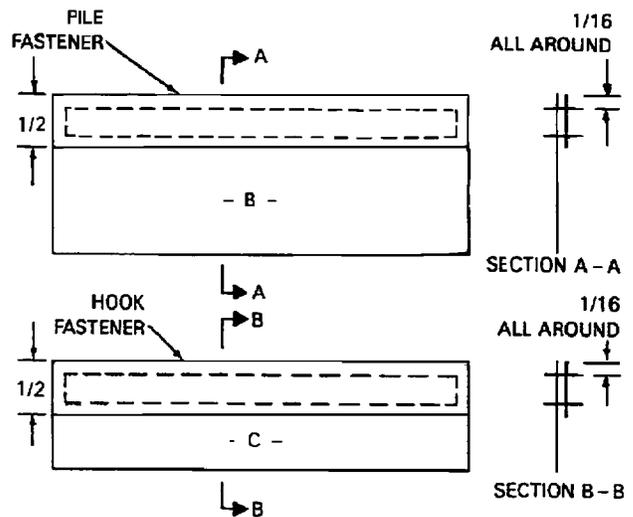
Figure 23. Measure and Mark

20. FABRICATION OF LANYARD STOWAGE POCKET.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
MIL-F-21840	Tape, Hook, 1/2-in. wide, 5-in.
MIL-F-21840	Tape, Pile, 1/2-in. wide, 5-in.
PIA-W-4088	Webbing, Nylon, Type VIII, 11-in. Class 1, 1A, or 2
PIA-T-5038	Webbing, Textile, Nylon, 1-in Wide, 7-in. Type IV
PIA-T-5038	Webbing, Textile, Nylon, 1 1/2-in Wide, 5-in. Type IV

b. Cut a 4 1/4-in. length of 1/2-in wide hook and pile fastener tape and attach the pile tape to piece B and the hook fastener to piece C. Sew with size E thread (Figure 24).



6.2-7145

Figure 24. Cut Hook and Pile Tape

c. Position pieces B and C on fold line of piece A with the pile tape of piece B facing up and the hook tape of piece C facing down. Attach these pieces to piece A. Sew with size E thread (Figure 25).

a. Measure and mark nylon webbing (Figure 23).

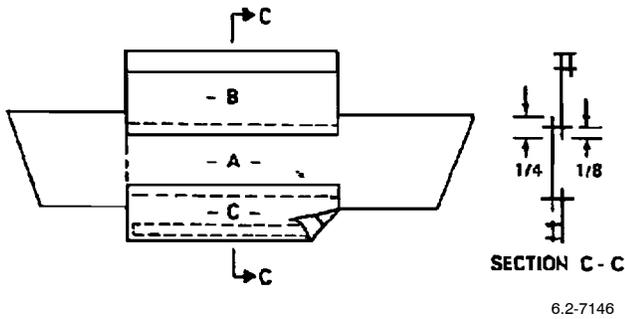


Figure 25. Position Pieces B and C

d. Place piece E on top of piece D and sew with size E thread, to form a channel (Figure 26).

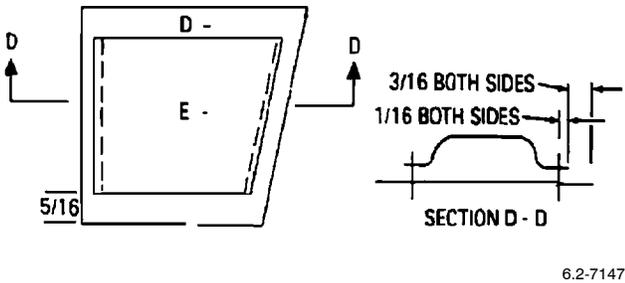


Figure 26. Place Piece E on Top of Piece D

e. Place the newly constructed piece D on top of piece A and stitch 1/8-in. from the edges of piece A, with size E thread, to form another channel (Figure 27).

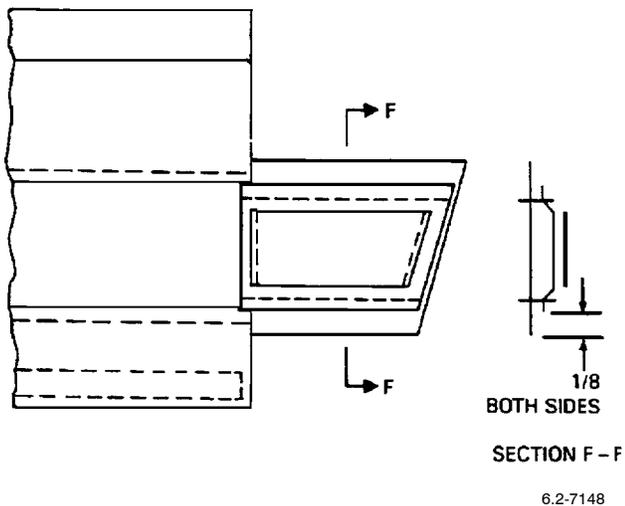


Figure 27. Place Constructed Piece D on Top of Piece A

f. Fold opposite end of piece A under itself at fold line marked earlier and stitch with two rows of size E thread, to form another channel (Figure 28).

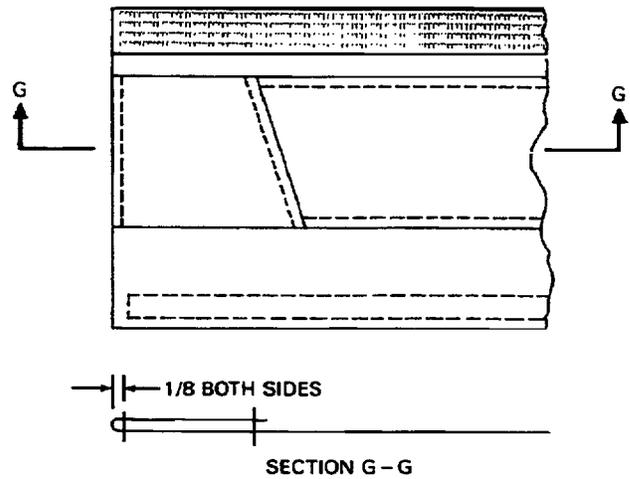


Figure 28. Fold Opposite End of Piece A Under Itself

21. INSTALLATION OF LANYARD STOWAGE POCKET.

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. Route arming cable housing on inside of parachute container by inserting it thru channel under hesitator loops and thru side of buttonhole. Position end of housing so that it extends 4-in. from outside of buttonhole (Figure 29).

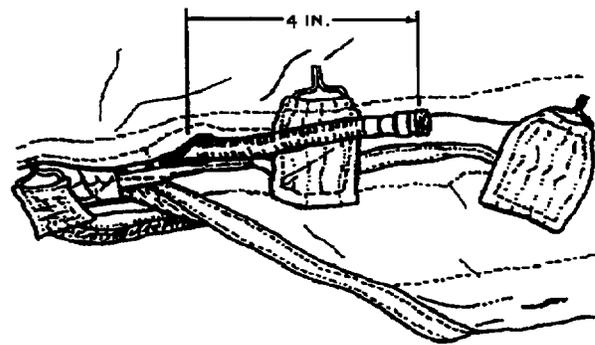
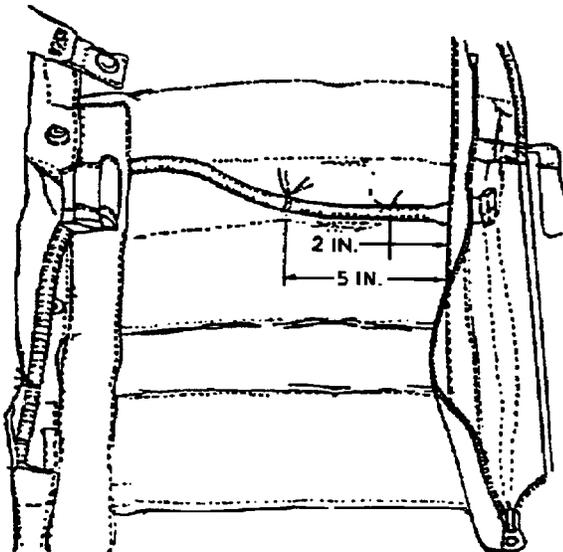


Figure 29. Route Arming Cable Housing

b. Tack arming cable housing to inside of container at a point 2-in. from buttonhole with three turns of size 6 thread, doubled and waxed; tie off (Figure 30).

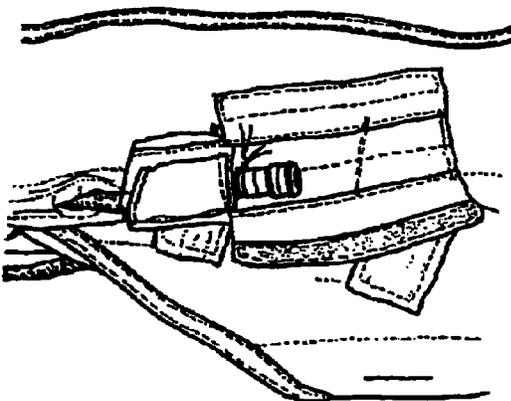


6.2-7151

Figure 30. Tacking of Arming Cable Housing to Inside of Container

c. Tack arming cable housing at second metal stiffener from top of container two places located 2-in. and 5-in. measured from inboard edge of buttonhole on automatic ripcord release pocket (Figure 30).

d. Route terminal end of arming cable assembly thru the lowermost channel of the stowage pocket. Tack arming cable housing to stowage pocket where housing exits channel with three turns of size 6 thread, doubled and waxed; tie off (Figure 31).



6.2-7112

Figure 31. Route Terminal End of Arming Cable Housing

22. REPLACEMENT LANYARD STOWAGE POCKET.

Material Required

Specification or Part Number	Nomenclature
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

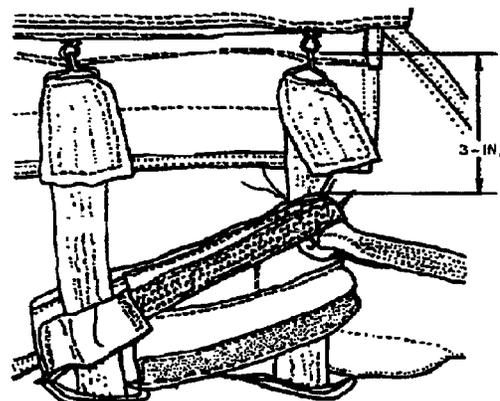
Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

a. Remove all tackings and remove spring opening assemblies from channels in stowage pocket.

b. Tack arming cable housing to the stowage pocket at the point where housing exits the channel with three turns, of size 6 thread, doubled and waxed; tie off (Figure 31).

c. Route second spring opening assembly from the bottom thru uppermost channel on stowage pocket. Route bottom spring opening assembly thru lower channel on stowage pocket.

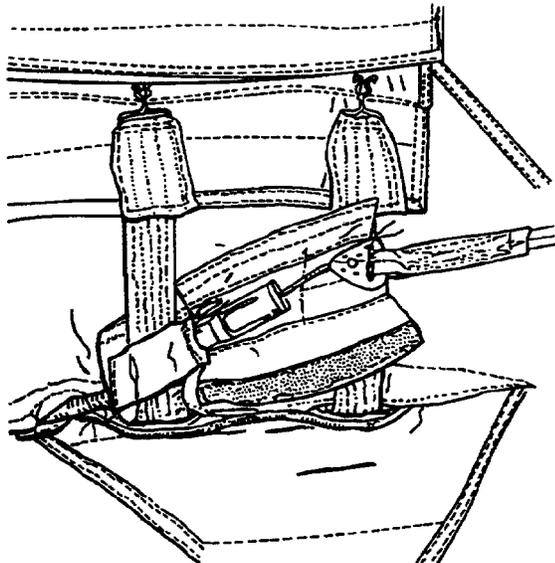
d. Tack base of stowage pocket to bottom spring opening assembly about 3-in. from hook with three turns of size 6 thread, doubled and waxed; tie off (Figure 32).



6.2-7138

Figure 32. Tack Base of Stowage Pocket

e. Tack lanyard assembly plate to upper flap of stowage pocket with one turn of size E thread, single and waxed; tie off (Figure 33).



6.2-7139

Figure 33. Tack Lanyard Assembly Plate

f. Fake lanyard assembly in stowage pocket and close by securing pile tape on bottom flap with hook tape on top flap.

**23. STOWAGE OF LANYARD.**

Materials Required

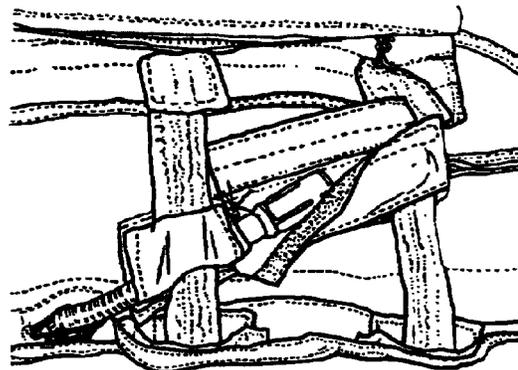
Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

**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. Pack parachute assembly per WP 011 02.

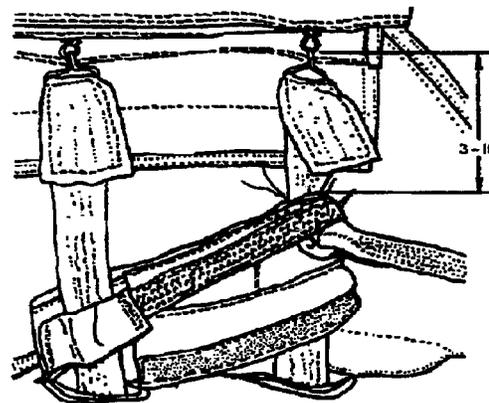
b. Attach spring opening assemblies on left side of container. Route the second spring opening assembly from bottom thru uppermost channel on stowage pocket. Route bottom spring opening assembly thru lower channel provided on stowage pocket (Figure 34).



6.2-7137

Figure 34. Attach Spring Opening Assemblies

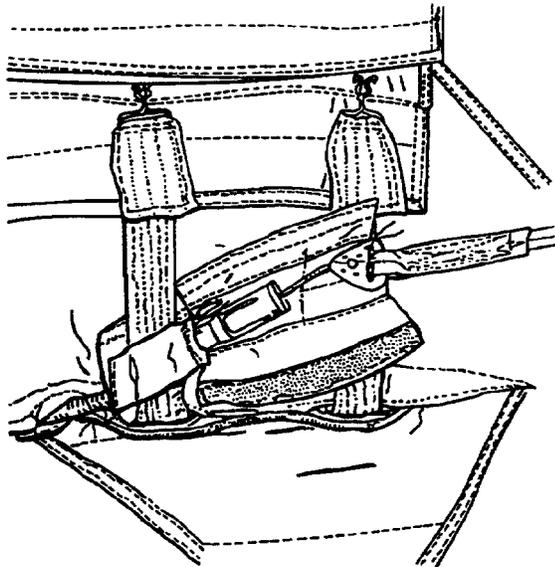
c. Tack base of stowage pocket to bottom spring opening assembly about 3-in. from hook with three turns of size 6 thread, doubled and waxed; tie off (Figure 35).



6.2-7138

Figure 35. Tack Base of Stowage Pocket

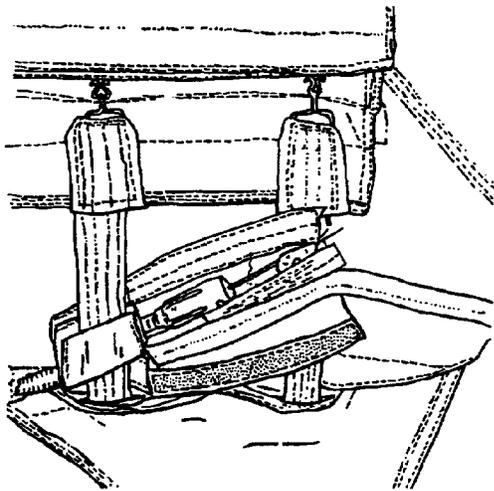
d. Tack lanyard assembly plate to upper flap of stowage pocket with one turn of size E thread, single and waxed; tie off (Figure 36).



6.2-7139

Figure 36. Tack Lanyard Assembly Plate

e. Fake lanyard assembly in stowage pocket and close by securing the pile tape on bottom flap with hook tape on top flap (Figure 37).

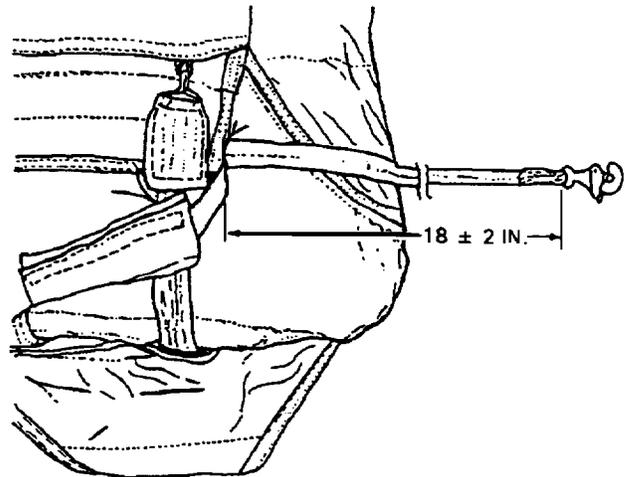


6.2-7140

Figure 37. Fake Lanyard Assembly in Stowage Pocket

f. Prepare to stow ripcord release lanyard assembly in container by first laying it out on packing table and removing all twists. Then form a bight in lanyard 36-in. from eye of snaphook.

g. Using a draw cord, stow first bight into flute closest to stowage pocket. Draw a bight from bottom to top of container and adjust it so  $18 \pm 2$ -in. of lanyard remain between bottom of flute and eye of snaphook (Figure 38).



6.2-7141

Figure 38. Stow First Bight into Flute

h. Tack lanyard to bottom of flute with one turn of size E thread, single and waxed; tie off.

**24. CONTAINER ASSEMBLY REPAIRS.**

a. For container service life, refer to WP 011 02.

**25. 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
60A113D16-1	Base Assembly, Clamp -or-
60A113C24-1	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 a sufficient length of size 6 thread, doubled and waxed, to complete repair and to tie an overhand knot 3 to 4-in. from end of thread for tie-off when stitching is completed.

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 hand stitching 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 to 1/2-in.

f. If base assembly was replaced, reinstall clamp and ripcord housing/power cable housing per Paragraph 17.

**26. REPLACEMENT OF SLIDE FASTENER ON PARARAFT 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 the same position as the one removed.

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

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

**27. REPLACEMENT OF CONTAINER.**

Materials Required

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

a. Remove tackings and survival kit.

b. If survival kit is not attached, remove raft retaining strap tackings.

c. Remove backpad.

d. Remove ties securing shoulder tabs to harness web loops.

e. Remove tackings on harness keeper straps.

f. Remove all harness keeper straps from adapters and then remove harness from container.

g. Remove ripcord housing and if installed, ripcord release power cable housing from base plate clamp.

h. If installed, remove ripcord release from container.

i. Inspect replacement container per WP 011 02.

j. Attach container to harness per Paragraphs 13 and 14.

**NOTE**

If ripcord release is to be installed, do not perform steps k and l.

k. Reeve free end of ripcord housing thru shoulder tab sleeve.

l. Clamp ripcord housing to base plate using single housing clamp.

**NOTE**

Perform step m if ripcord release is to be installed.

m. Attach ripcord housing, automatic parachute ripcord release arming, and power cable housing, per Paragraphs 17 and 18.

n. If installed, attach survival kit by reeving leg straps through keepers on standard soft pack and then up thru slot in seat cushion or seat pan, as applicable.

o. On parachute assembly label, marking shall be 1/4-in. high and include serial number from canopy name plate, assembly activity (contractor CAGE code or Navy activity code), contract number from canopy name plate, month/year for date of assembly, and complete assembly dash number from illustrated parts breakdown.

**28. REPAIR OF RIPCORDER PIN PROTECTIVE FLAP.**

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
PIA-W-4088	Webbing, Nylon, Type IV, Class 1, 1A, or 2

- a. Cut a six inch length of webbing.
- b. Using size E thread, sew webbing to outside of ripcord pin protector flap.

**29. REPAIR OF BACKPAD.**

- a. Repair of the backpad is limited to the following:
  - (1) Cleaning contaminated areas per WP 004 00.
  - (2) Replacement of snap fasteners per WP 004 00.
  - (3) Repair of holes, tears and loose or broken stitching per WP 004 00.
  - (4) Replacement of pile fastener tape per Paragraph 30.
- b. Replace backpad for any holes, tears, or other damage deemed beyond repair.

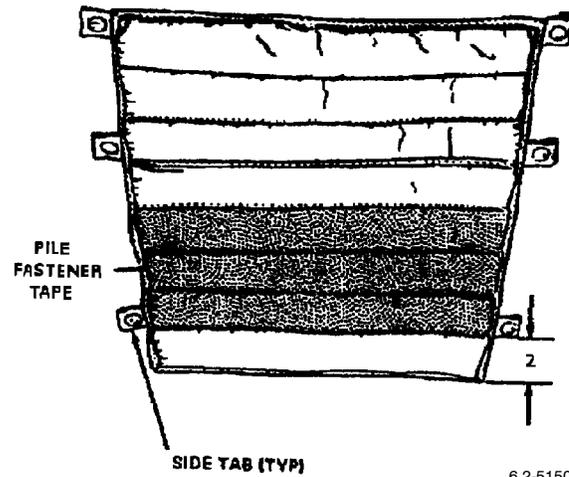
**30. INSTALLATION OF BACKPAD PILE FASTENER TAPE (FOR 565AS100-13/-14 PARACHUTE).**

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
MIL-F-21840	Fastener Tape Pile, 2-in. wide, Type II, Class 1

a. Mark a horizontal line 2-in. from the bottom of the backpad.

b. Align one of the 14-in. pieces of pile fastener tape with the 2-in. mark and sew together using size E thread. Sew the remaining pieces of pile fastener tape to the backpad above the first piece (Figure 39).



**Figure 39. Alignment of Pile Fastener Tape**

c. Reidentify back pad as 60A113D6-8.

**31. 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.

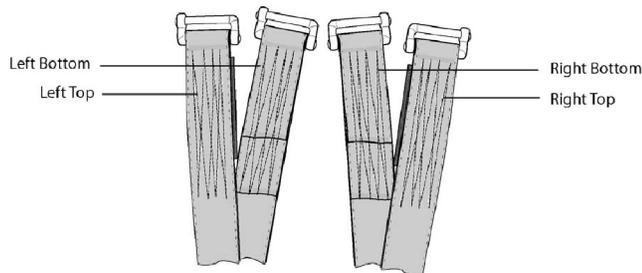
c. Remove cross-connector strap.

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 40).



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

**Figure 40. 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 011 04.

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**ORGANIZATIONAL, INTERMEDIATE AND DEPOT MAINTENANCE**

**ILLUSTRATED PARTS BREAKDOWN**

**NB-6 PERSONNEL PARACHUTE ASSEMBLY**

**PART NO. 565AS100-1, 565AS100-2, 565AS100-13, and 565AS100-14**

**List of Effective Work Package Pages**

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

**Reference Material**

Intermediate and Depot Maintenance, Packing Procedures, NB-6 Personnel Parachute Assembly . . . . . WP 011 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-6 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-6 Personnel Parachute Assembly (Figure 1).

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

A, B – T-34B

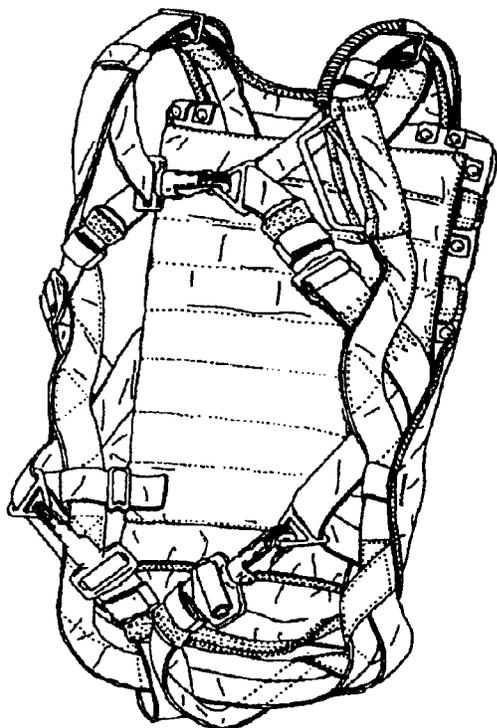
C, D – T-34C

**2. USABLE ON CODES.**

a. The usable on codes in this WP refer to the aircraft applications for the NB-6 Personnel Parachute Assembly.

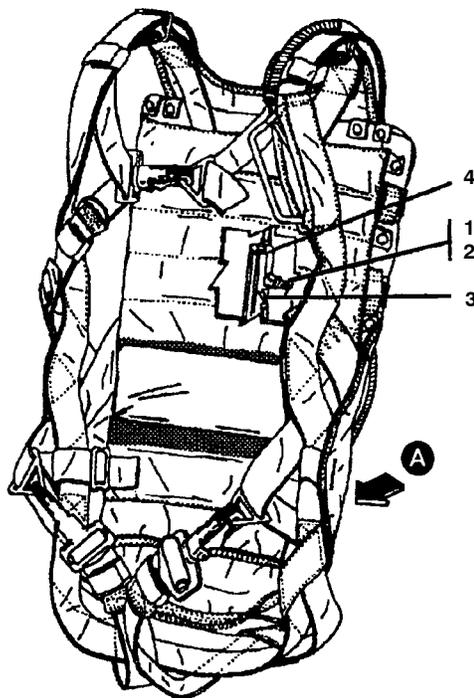
**3. SERVICE/TOTAL LIFE.**

a. The service/total life information is contained in WP 011 02.

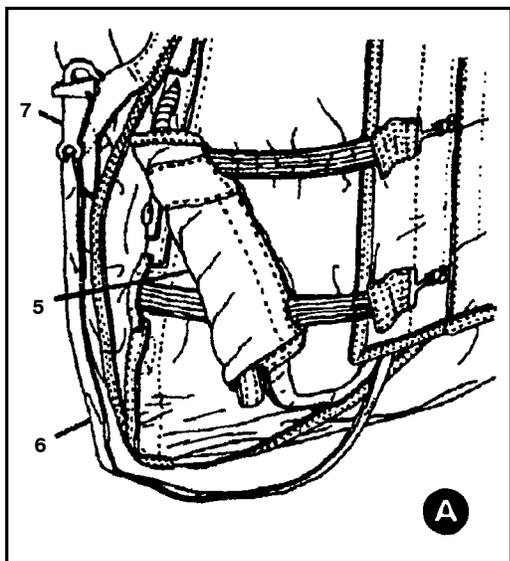


-1, -2 ASSEMBLIES

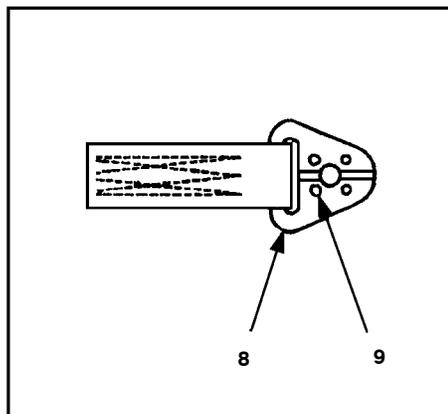
6.2-5763



6.2-5763B

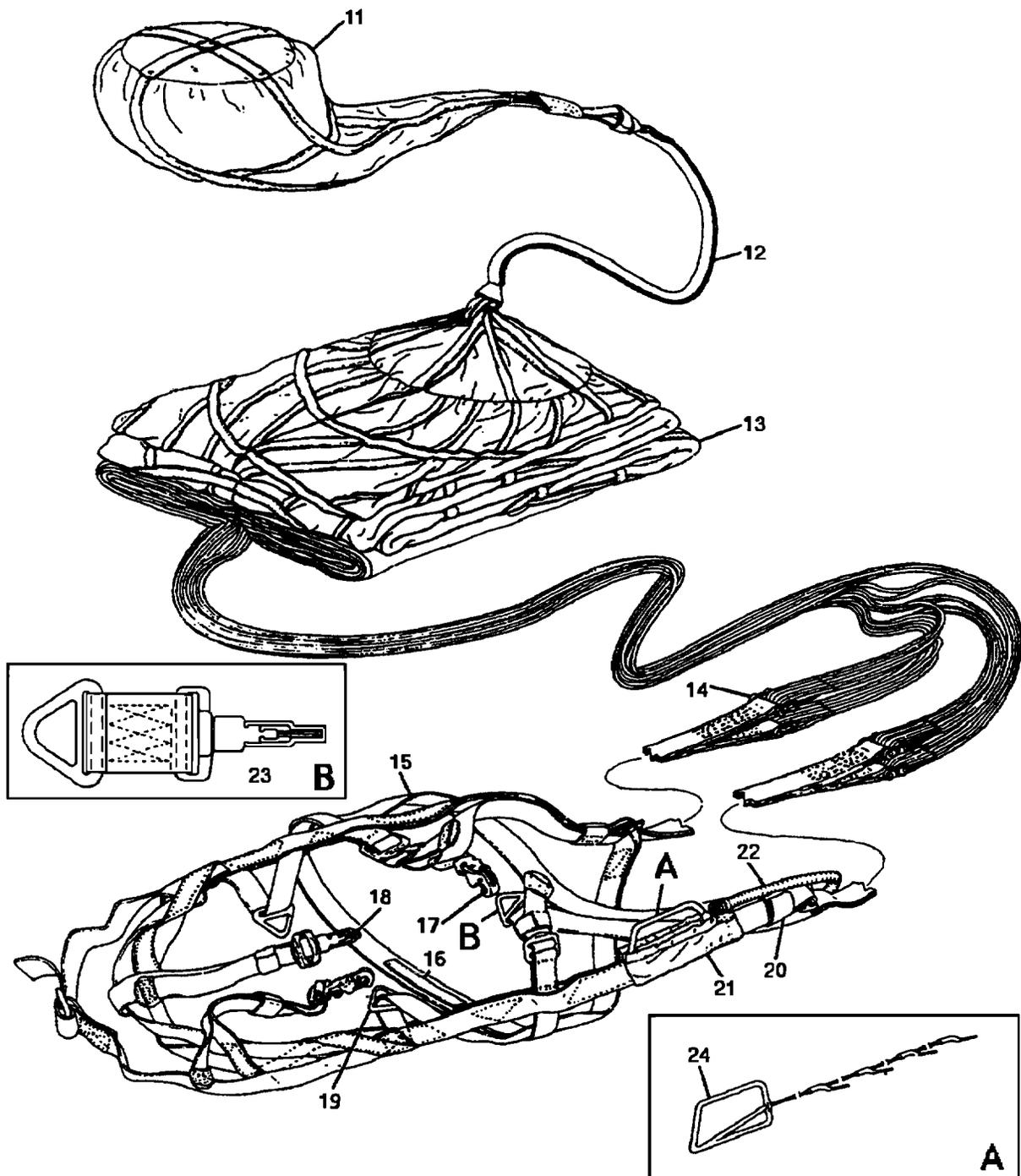


6.2-5763A



6.2-5763C

Figure 1. NB-6 Personnel Parachute Assembly (Sheet 1 of 5)



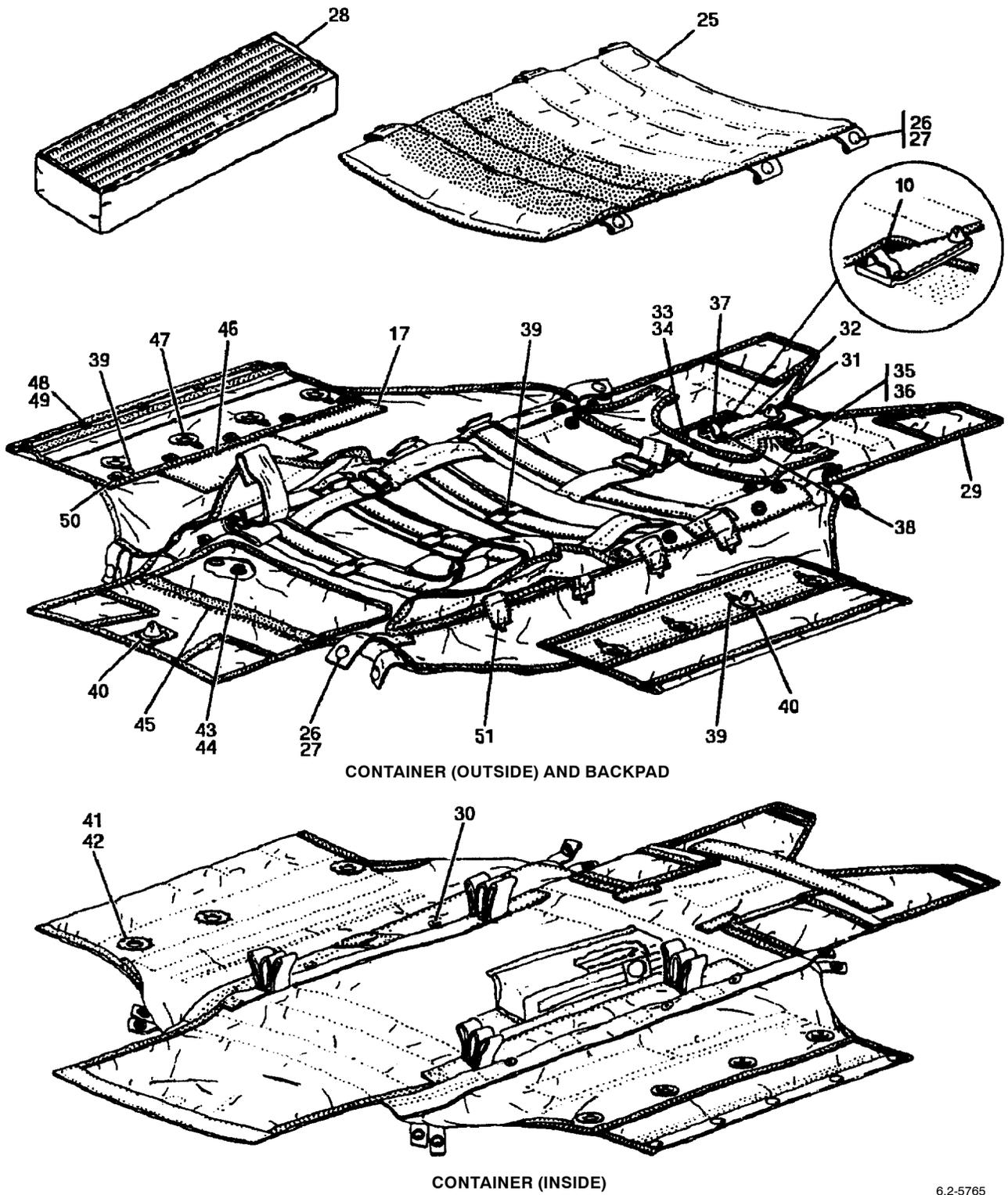
6.2-5764

Figure 1. NB-6 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
	565AS100-1	PARACHUTE ASSEMBLY, COMPLETE, ..... NB-6, REGULAR	REF	A	AGOGG
	565AS100-2	PARACHUTE ASSEMBLY, COMPLETE, ..... NB-6, OVERSIZE	REF	B	AGOGG
	565AS100-13	PARACHUTE ASSEMBLY, COMPLETE, ..... NB-6, REGULAR	REF	C	AGOGG
	565AS100-14	PARACHUTE ASSEMBLY, COMPLETE, ..... NB-6, OVERSIZE	REF	D	AGOGG
1	711-07025	. HOUSING, ARMING CABLE /52497/ .....	1	C,D	PAGZZ
2	711-07026	. CABLE, ARMING /52497/ .....	1	C,D	PAGZZ
3	2519704	. CARTRIDGE, DELAY, MK 5 .....	1	C,D	PCGZA
		MOD 2 (M284)			
4	711-07022-34	. RELEASE, AUTOMATIC PARACHUTE .....	1	C,D	PAGDD
		RIPCORDER, MOD 7000 /52497/			
	711-07022-30	. RELEASE, AUTOMATIC PARACHUTE .....	1	C,D	PAGDD
		RIPCORDER, MOD 7000 /52497/			
		(USE UNTIL EXHAUSTED)			
5	60A113D51-1	. STOWAGE POCKET, ARMING CABLE .....	1	C,D	PAGZZ
6	812AS100-1D	. LANYARD ASSEMBLY .....	1	C,D	MGGZZ
7	MS27756	. . SNAPHOOK, PARACHUTE .....	1		PAGZZ
		LANYARD			
8	782AS100-4	. . PLATE .....	2	C,D	PAGZZ
9	MS20470DD2-3	. . RIVET, SOLID .....	4	C,D	PAGZZ
10	565AS102-1	. CLAMP, DOUBLE .....	1	C,D	PAGZZ
11	60A125E16-1	. PARACHUTE ASSEMBLY, PILOT .....	1		PCGZZ
12	666AS100-1	. STRAP, PILOT PARACHUTE CONNECTOR ....	1		PCGZZ
13	60A114E3-1	. CANOPY ASSEMBLY .....	1	*	PCGGG
	60A114E3-27	. CANOPY ASSEMBLY (WITH DOUBLE "L" ....	1	*	PCGGG
		CONNECTOR LINK INSTALLED)			
14	MS22021-1	. . LINK, REMOVABLE CONNECTOR .....	4	*	PAGZZ
	MS22002-1	. . CONNECTOR LINK (DOUBLE "L") .....	4	*	PAGZZ
15	60A113E3-14	. HARNESS ASSEMBLY, REGULAR .....	1	A,C	PCGGG
	60A113E4-14	. HARNESS ASSEMBLY, OVERSIZE .....	1	B,D	PCGGG
16	676AS100-1	. . LABEL .....	2		MDGZZ
17	MS22017	. . SNAP, PARACHUTE HARNESS EJECTOR ...	1		PAGZZ
	68D37721-3	. . SNAP, PARACHUTE HARNESS EJECTOR ...	1	*	PAGZZ
18	MS22018	. . SNAP, PARACHUTE HARNESS .....	2		PAGZZ
		QUICK FIT EJECTOR			
19	MS22020-1	. . LINK, PARACHUTE HARNESS .....	3		PAGZZ
		TRIANGLE			
20	60A113E3-2	. . KEEPER STRAP SUBASSEMBLY .....	6		MGGZZ
21	60A113D9-1	. . POCKET ASSEMBLY .....	1		PCGZZ
22	MS70104-4	. . HOUSING, RIPCORDER .....	1		PAGZZ
23	830AS100-1	. CHEST STRAP EXTENDER .....	1		MGGZZ
		(AS REQUIRED)			
24	60A113D7-1	. RIPCORDER ASSEMBLY .....	1		PAGZZ
25	60A113D6-8	. PAD ASSEMBLY, BACK .....	1	C,D	MGGGG
	60A113D6-1	. PAD ASSEMBLY, BACK .....	1	A,B	PAGGG

Figure 1. NB-6 Personnel Parachute Assembly (Sheet 3 of 5)



6.2-5765

Figure 1. NB-6 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			
26	MS27983-1	.	.	FASTENER, BUTTON	.	.	.	.	7		PAGZZ
27	MS27983-2N	.	.	FASTENER, SOCKET	.	.	.	.	7		PAGZZ
28	60A113D50-1	.	.	LUMBAR PAD	.	.	.	.	1	C,D	PAOZZ
29	60A114E2-53	.	.	CONTAINER ASSEMBLY	.	.	.	.	1		PCGGG
30	MS27980-10B	.	.	FASTENER, EYELET	.	.	.	.	6		PAGZZ
31	60A113C24-1	.	.	CONE, 0.410 GRIP	.	.	.	.	1		PAGZZ
32	60A113D16-1	.	.	BASE ASSEMBLY, CLAMP	.	.	.	.	1		PAGZZ
33	MS27981-5B	.	.	FASTENER, EYELET	.	.	.	.	3		PAGZZ
34	MS27981-4B	.	.	FASTENER, STUD	.	.	.	.	3		PAGZZ
35	MS27981-1B	.	.	FASTENER, BUTTON	.	.	.	.	3		PAGZZ
36	MS27981-3B	.	.	FASTENER, SOCKET	.	.	.	.	3		PAGZZ
37	60A113C29-1	.	.	CLAMP, SINGLE CABLE	.	.	.	.	1	A,B	PAGZZ
38	MS51957-44	.	.	SCREW	.	.	.	.	2		PAGZZ
39	60A113C28-1	.	.	EYE	.	.	.	.	4		PAGZZ
40	60A113C31-1	.	.	CONE, 0.338 GRIP	.	.	.	.	2		PAGZZ
41	60A113C25-1	.	.	WASHER, GROMMET	.	.	.	.	3		PAGZZ
42	MS22048GC1	.	.	GROMMET	.	.	.	.	3		PAGZZ
43	MS27983-3	.	.	FASTENER, STUD	.	.	.	.	14		PAGZZ
44	MS27980-8B	.	.	FASTENER, EYELET	.	.	.	.	19		PAGZZ
45	814AS807-1	.	.	FASTENER, SLIDE	.	.	.	.	1		PAGZZ
46	585AS100-1	.	.	LABEL, PARACHUTE ASSEMBLY	.	.	.	.	1		MDGZZ
47	MS22048C2	.	.	GROMMET AND WASHER,	.	.	.	.	4		PAGZZ
				PARACHUTE PACK							
48	MS27980-1B	.	.	FASTENER, BUTTON	.	.	.	.	5		PAGZZ
49	MS27980-6B	.	.	FASTENER, SOCKET	.	.	.	.	5		PAGZZ
50	MS27980-7B	.	.	FASTENER, STUD	.	.	.	.	5		PAGZZ
51	60A113D11-2	.	.	SPRING ASSEMBLY, CONTAINER	.	.	.	.	8	*	PAOZZ
				OPENING							
	MS70105-6	.	.	SPRING ASSEMBLY, CONTAINER	.	.	.	.	8	*	PAOZZ
				OPENING							

Figure 1. NB-6 Personnel Parachute Assembly (Sheet 5 of 5)